	A	B	C	D	E	F
1						
2		A1	A2	A3	A4	A5
3	Freebore Diameter Gage Pin	.2075-	.2075-	.2075-	.2075-	.2075-

Cell: A3
Comment: Jim Ronkainen:
Tightest gage pin that can fit into the freebore diameter ahead of the chamber's neck.

TLW2170
INTERIM PROGRESS REPORT A
40X X-MARK PRO TRIGGER FRACTURE
40X XMP DAT (S/N: TA#12)
Endurance Testing Measurement / Accidental Impact

DESCRIPTION

A trigger failure occurred during the measurement routine of the endurance testing portion of the DAT for the 40X X-Mark Pro fire-control conducted on March 28, 2007. Trigger assembly #12 (TA#12) was accidentally impacted against the measurement fixture which precipitated a failure of the trigger by fracture. At the time of failure, TA#12 had 500 rounds fired and was being utilized in test firearm A12. The measurements were being conducted by J. Ronkainen (Staff Engineer) using the optical comparator. When the trigger assembly was removed from the fixture, the trigger impacted the T-slot table fixturing of the optical comparator. This impact resulted in the fracture of the trigger. Figure 1 presents an image of the failed trigger assembly.

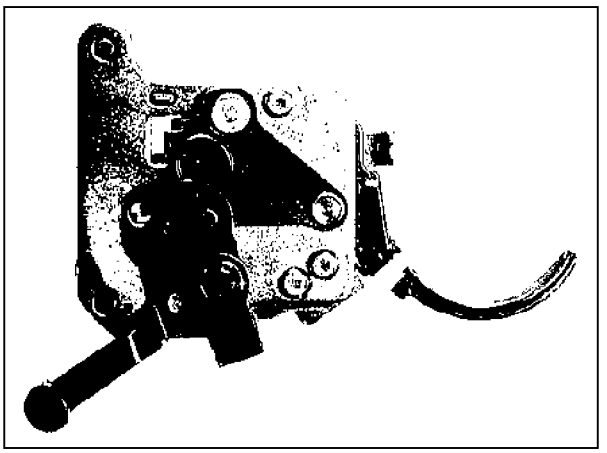

Figure 1. The failed TA#12 test sample.

SUMMARY AND RECOMMENDATIONS

The failure was a result of the impact of the trigger coupled with the geometry of the welded boss on the trigger. The welded boss created a notch that acted as a stress riser, at which the fracture initiated. In the production version, this weld will not be present; instead, the boss will be molded into the MIM trigger geometry without the presence of a notch. It should be noted also that the loading conditions which resulted in the failure are **NOT** typical of normal usage conditions for the trigger assembly. Most likely, this type of impact would not happen in the field due to the presence of the trigger guard on the assembled rifle.

ACTIONS TAKEN

TA#12 was removed from the DAT testing protocol. The DAT test was continued with TA#13 substituted for TA#12 for the remainder of the endurance testing. No other changes are planned for the remainder of the DAT. The failed trigger assembly was returned to J. Ronkainen.

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R 2193505

FINDINGS

Figure 2 presents an image of the fracture surface of the trigger bow with the fracture initiation site identified. The fracture initiated at the outside surface of the screw boss at a notch created by the intersection of the weld bead and the trigger adjustment screw boss. Figure 3 presents a side-view image of the failed trigger at the fracture initiation site location. This image provides an illustration of the notch created between the weld bead and the trigger adjustment screw boss. In the production design, the trigger adjustment screw boss will be molded into the trigger geometry and the weld bead will not be required. This will eliminate the potential of a notch existing and minimize any stress risers at this location on the trigger.

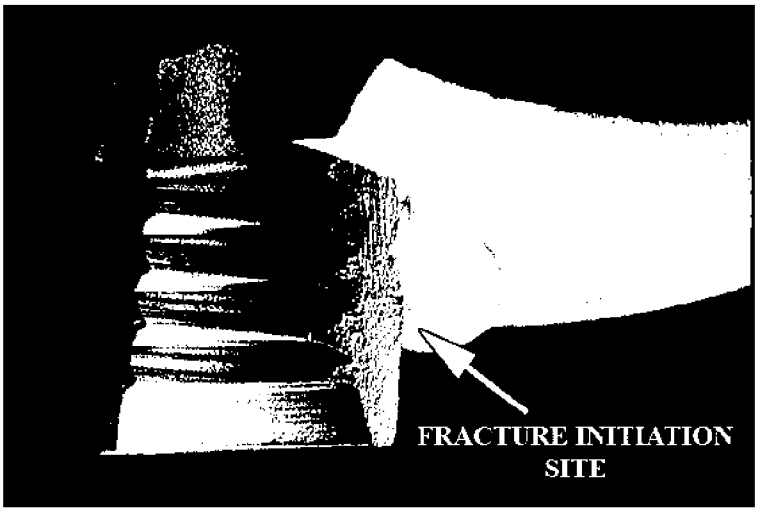

Figure 2. The fracture surface of the failed trigger showing the location of the fracture initiation.

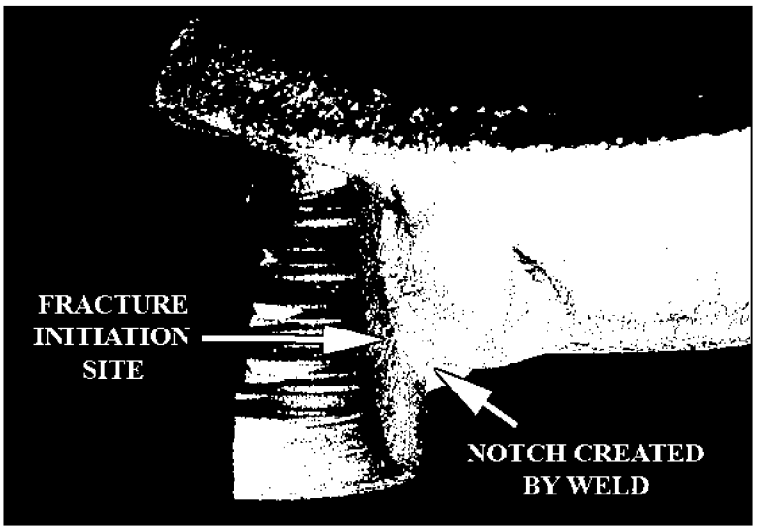

Figure 3. A side-view of the fractured trigger showing the location of the fracture initiation site relative to the notch created between the weld bead and the trigger adjustment screw boss.

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TLW2170
INTERIM PROGRESS REPORT B
40-X X-MARK PRO TRIGGER FAILURE
40-X XMP DAT (S/N: TA#17)
Endurance Dry-Cycle Testing

DESCRIPTION

A trigger failure occurred during the dry cycle testing portion of the DAT for the 40-X X-Mark Pro (XMP) fire-control conducted on April 10, 2008. Trigger assembly #17 (TA#17) failed by fracture through the adjustment screw boss location on the trigger. The failure was found by Cody Greenwell (co-op student) as the fire-control was being transported to the measurement area to perform sear engagement measurements after 5,000 dry cycles had been completed. The trigger assembly was being transported in a box along with two additional trigger assemblies at the 5,000 cycle level. The trigger assembly was mounted onto a receiver (S/N S7607332) with the bolt in-place. When TA#17 was being removed from the box, C. Greenwell thought he felt some trigger movement on the trigger assembly. Upon inspection, the trigger failed with little-to-no pressure in his hand. Figure 1 presents an image of the failed trigger assembly. This failure location is identical to the failure of TA#12 which occurred by accidental impact during initial testing and measurement by J. Ronkainen on March 28, 2007.

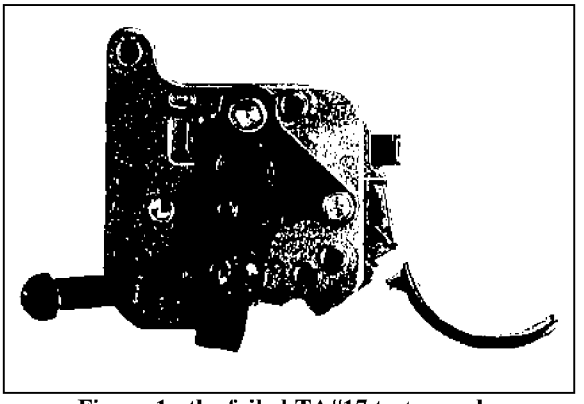

Figure 1. the failed TA#17 test sample.

SUMMARY AND RECOMMENDATIONS

The failure occurred due to a load being applied from the rear of the trigger shoe forward, contrary to the direction of force applied during normal use or dry cycle testing. The most likely cause of the failure is inadvertent impact or loading of the rear of the trigger. Based on the fact that this is the second incident of this type failure, there is an indication that there may be a fragility issue with the prototype trigger adjustment screw boss welded on the trigger. Most likely the fragility issue will be resolved when the production triggers are made available with the integrally molded boss on the trigger. It is recommended that the production part be tested when available to verify the resolution of this issue.

ACTIONS TAKEN

TA#17 was removed from the DAT dry cycle testing protocol. The DAT was continued with TA#20 substituted for TA#17 for the remainder of the test. All testing previously completed on TA#17 will be repeated on TA#20.

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Testing of TA#20 is planned to continue as intended on TA#17. No other changes are planned for the remainder of the DAT. The failed trigger assembly was returned to J. Ronkainen.

FINDINGS

Figure 2 presents an increased magnification image of the fracture region of the trigger assembly. For clarity, the spring adjustment screw has been removed from the failed trigger assembly. This image presents the specific location of the fracture through the trigger bow and the trigger spring adjustment screw boss. In these prototype parts being used for the DAT test, the trigger boss is welded onto the trigger bow. The actual production trigger will has a molded-in boss which is drilled and tapped rather than a welded boss.

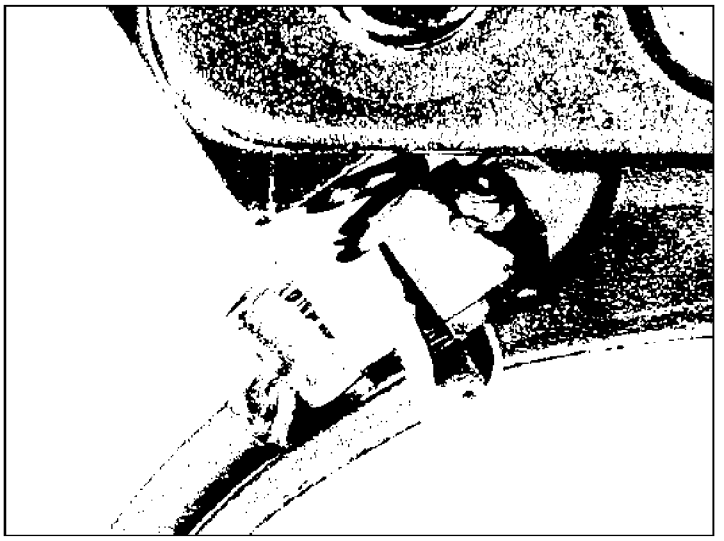

Figure 2. A close-up view of the fracture area with the trigger spring adjustment screw removed.

Figure 3 presents a close up image of the trigger bow portion of the fracture as viewed from the side angle. This image shows some fracture morphology characteristics which indicate the direction of fracture propagation. These features include a large area of straight (vertical) fracture and a small region of fracture which occurs at about 45° to the vertical fracture. This region is typically called a shear lip and represents the region of fracture in which the stress state changed from 3-dimensionally constrained to 2-dimensionally constrained – the last portion to fracture. This fracture path geometry indicates that the fracture initiated at the top of the boss or trigger bow and propagated to the bottom.

Figure 4 presents an image of the fracture surfaces as viewed with low-angle incident lighting. This image further confirms the evidence presented in Figure 3. The fracture propagated from the top surface of the boss and the top surface of the trigger bow cross section to the bottom of the trigger bow, ending at the shear lip region. The fracture initiation site is most likely one of two locations. The first probable location is the top of the trigger adjustment screw boss on the left side of the image presented as Figure 4. The second probable location is the top outer corner of the trigger bow cross section on the left side of the image presented as Figure 4.

Based on the direction of the fracture propagation, the load had to be applied to the rear of the trigger bow and applied in a forward direction. This orientation directly opposes the intended direction of force application to the trigger bow. Most likely, this failure occurred as a result of handling or abnormal loading the trigger mechanism.

The repetition of the same type of failure from March 28, 2007 indicates that a fragility issue may exist with the current DAT samples. This issue is most likely due to the nature of the boss assembly and welding process. In

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the production designed part the boss will be molded into the trigger bow in the production MIM process, thereby eliminating assembly issues relating to the welded trigger adjustment screw boss. The current trigger bow cross section has been reduced by over 60% to make room for the boss insert. The method of attachment of the trigger boss by welding at the front and back regions does not make a good structural connection to effectively transfer load into the trigger bow cross section to the boss cross section. As a result, any load applied to the trigger bow is largely borne by the reduced cross-section trigger bow rather than the combined area of the trigger bow and the trigger adjustment screw boss insert.

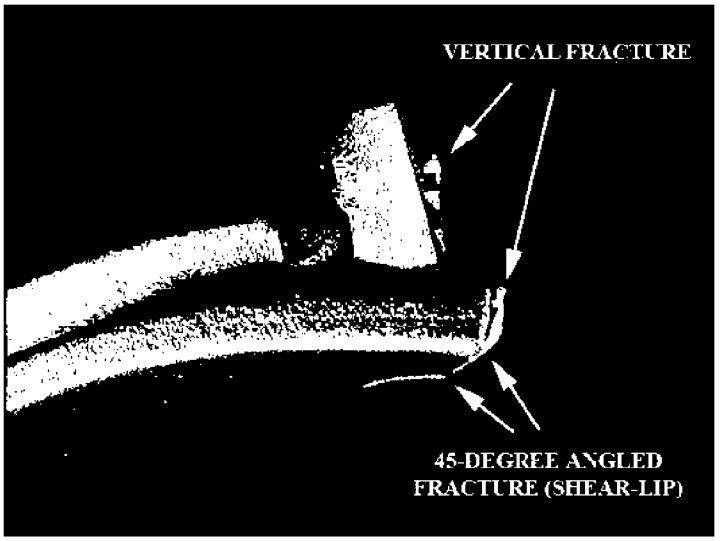

Figure 3. Side view of the trigger bow fracture. This image shows the change in direction of the fracture path, indicating the location of the shear lip at the final portion of the trigger bow to fracture.

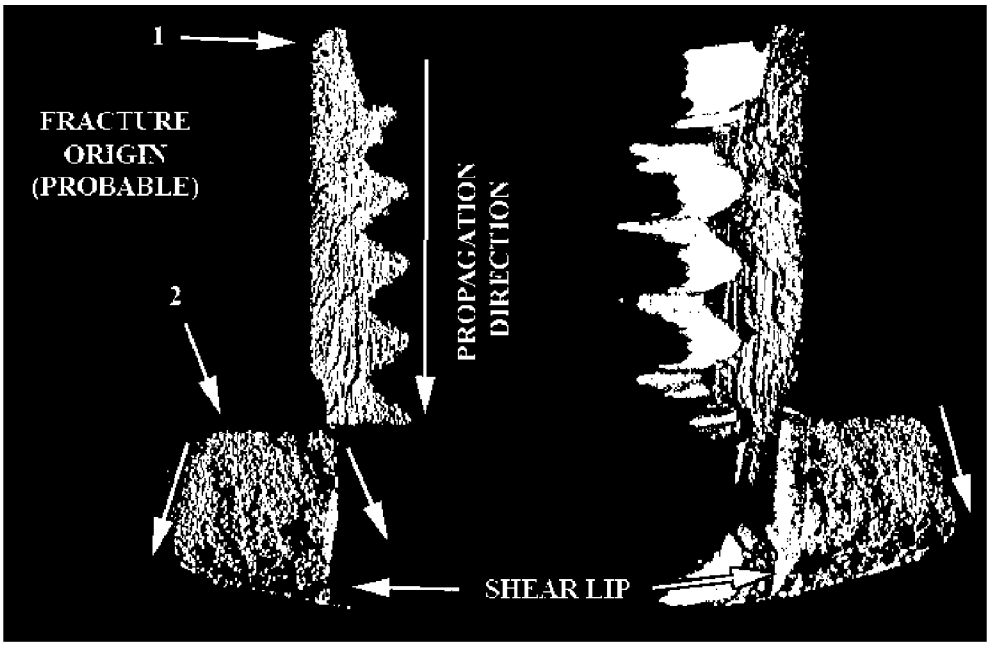

Figure 4. The fracture surface of the failed trigger showing the fracture morphology of both the trigger bow region (lower edges with the shear lip) and the boss region (threaded portion).

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R 2193509

Remington.

REMINGTON ARMS COMPANY, INC.
RESEARCH & DEVELOPMENT TECHNOLOGY CENTER
315 W. RING ROAD
ELIZABETHTOWN, KENTUCKY 42701-9318
(270) 769-7600 FAX (270) 737-9576

Remington Arms Company, Inc.
John C. Trull
Post Office Box 700
Madison, NC 27025

May 4, 2007

VIA EMAIL: JOHN.TRULL@REMINGTON.COM

The Test and Measurement organization within the Elizabethtown Research and Development facility formally supports exit from Design Acceptance Testing of the M/40X XMP Trigger Assembly subject to the following issues and conditions:

1. A Design Transmittal must occur after successful Trial & Pilot Testing to formally establish component dimensional parameters reflective of DAT & T&P product. All future product must conform to these parameters. If changes are made that deviate from the design tested, the design engineer must be contacted and he must concur with the proposed changes. Any significant changes should be followed up by additional testing.
2. No issues of significance related to the trigger assemblies were noted during the DAT. Two triggers were broken during the test, one when dropped during a measurement cycle and the other during a dry cycle test. Both failed components were examined and the failure was attributed to the method of fabrication used for the proto-type parts and is not expected to be an issue with final production parts. T&P testing will be needed to confirm this conclusion.
3. Accuracy, especially on the .204 Ruger caliber, was not up to expected standards but was not believed to be related in any way to the Trigger Assemblies.

There are no other known issues that exist which Test believes might result in customer dissatisfaction with this new design. Consequently, Test supports proceeding with a T&P build of this design at a time consistent with Marketing plans for this product.

Elizabethtown stands ready to assist should you determine that additional audits of the product are required.

With Kind Regard,

Scott Franz

Scott R. Franz
Manager of Research and Technology
Remington Arms Company, Inc.

cc: T.L. Millner, D.D. Diaz, J.W. Ronkainen, P.L. Cahan, S. Perniciaro, D.H. Campbell, J.R. Snedeker

	A	B	C	D
1				
2				
3		**Remington Product Proposal Short Form**		
4				
5		NPP#	2008-24	
6				
7		**RAMAC**		
8				
9		SAP Description:		New X-Mark Pro 40-X Model Trigger
10				
11	**Site Assignment:**	☑ ILION	☐ MAYFIELD	☐ R & D
12				
13	**Category:**	☐ SHOTGUNS	☑ CENTERFIRE	☐ RIMFIRE
14				
15	**Dist Channel:**	☑ DOMESTIC		
16			☐ INTERNATIONAL	
17		☑ AGENCY	☐ LAW ENFORCEMENT	
18		☑ NTL ACCOUNTS		
19				
20	**Sales Type:**	☑ CATALOG	☐ SPRING	☐ WINTER
21		☐ CUSTOMER SPECIAL		
22				
23	**Product Description:**	☑ NEW		☐ REPEAT
24		**Product Description Detail:**		
25		New X-Mark Pro Trigger designed with an external adjustment--like the 40-X style trigger		
26				
27				
28		**Special Instructions:**		
29		Develop a 40-X style trigger that is externally adjustable on the new X-Mark pro trigger platform		
30		Implement this new trigger into all existing models with 40-X triggers specified		
31				
32				
33	**Year**	**Volumes**	**MSP**	**Invoice**
34				$ -
35				
36				
37				
38	**Key Dates & Quanitites:**			
39	**Event**	**Date**	**Qty**	**Event**
40	DAT			Catalog Decision
41	Start T&P			Photo Sample
42	Complete T & P			Writers Shooters
43	Warehouse			Writers Display
44	Structures			Sales Shooters
45				Sales Display
46				Rep Samples
47				Shot Show

	E	F	G	H	I
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33	**FET**	**RemCash**	**Cost**	**$Margin**	**%Margin**
34	$ -	$ -		$ -	#DIV/0!
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39	**Date**	**Qty**	**Event**	**Date**	**Qty**
40	**ASAP**		Test ammo		
41			Proof ammo		
42			Gallery ammo		
43					
44					
45					
46					
47					

	A	B	C	D
48				
49	**Submitted By:**	B. Lasley		
50	**Revisions:**			

	A	B	C	D	E	F	G	H	I
1									
2	**Comparable Product #1**			**RAMAC**		**Description**			
3									
4		Unit Pricing	MSP	Invoice	FET	RemCash	cost	$Margin	%Margin
5		Actual		$ -	$ -	$ -		$ -	#DIV/0!
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9	**Comparable Product #2**			**RAMAC**		**Description**			
10									
11		Unit Pricing	MSP	Invoice	FET	RemCash	cost	$Margin	%Margin
12		Actual		$ -	$ -	$ -		$ -	#DIV/0!
13									
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16	**Comparable Product #3**			**RAMAC**		**Description**			
17									
18		Unit Pricing	MSP	Invoice	FET	RemCash	cost	$Margin	%Margin
19		Actual		$ -	$ -	$ -		$ -	#DIV/0!
20									
21									
22	**Proposed Product Pricing**			**RAMAC**		**Description**			
23									
24		Unit Pricing	MSP	Invoice	FET	RemCash	cost	$Margin	%Margin
25		Target		$ -	$ -	$ -		$ -	#DIV/0!
26									
27									
28									
29	**Cost Basis/Buildup**								

	A	B
1	Part Name:	REAR SPACER BLOCK
2	Drawing Num:	301444
3	TLW Number:	241460
4	Revision Level:	
5	Vendor:	
6	Requisition #:	
7	Material:	
8	Hardness:	
9	Metallurgist:	
10	Engineer:	JIM RONKAINEN
11	Inspected by:	JIM RONKAINEN
12	Date:	12/5/2006
13	Reviewed by:	JR
14	Date:	12/6/2006
15		
16		
17		
18		
19	**identifier**	**feature description**
20	A	THICKNESS
21	B	Diameter
22	C	Diameter
23	C	Bonus
24	C	Positional Tolerance
25	D	Vert. DISTANCE Hole
26	I	Horiz. DISTANCE Hole
27	E	DISTANCE
28	F	DISTANCE
29	G	DISTANCE
30	H	DISTANCE
31	J	DISTANCE
32	K	DISTANCE
33	L	DISTANCE
34	M	RADIUS
35	N	RADIUS
36	O	RADIUS
37	P	RADIUS
38	Q	RADIUS
39	R	RADIUS
40	S	RADIUS
41	T	DEGREE
42	U	DEGREE
43	V	DEGREE
44	W	DEGREE
45	X	DISTANCE
46	Y	DISTANCE
47	Z	Diameter
48	Z	Diameter
49	Z	Possible Bonus
50	Z	Positional Tolerance
51	AA	Diameter

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18	
19	**DIM**
20	**0.1750**
21	**0.0995**
22	**0.0995**
23	
24	**0.0030**
25	**0.160**
26	**0.105**
27	**0.289**
28	**0.265**
29	**0.271**
30	**0.315**
31	**0.143**
32	**0.100**
33	**0.250**
34	**0.015**
35	**0.010**
36	**0.015**
37	**0.050**
38	**0.015**
39	**0.300**
40	**0.015**
41	**29.000**
42	**99.000**
43	**55.000**
44	**35.000**
45	**0.0875**
46	**0.150**
47	**0.125**
48	**0.125**
49	
50	**0.010**
51	**0.168**

	D	E	F	G	H	I	J	K
1								
2	NOTE- Dimension identifiers will be provided on the prints supplied by engineering & the CAD group.							
3								
4	INSTRUCTIONS:							
5	1. STAMP ALL PARTS WITH AN I.D, NUMBER AND CHANGE I.D. AT TOP OF PAGE CORRESPONDINGLY.							
6	2. TAG PARTS ONLY IF STAMPING IS NOT POSSIBLE.							
7	3. ENTER FEATURE DESCRIPTIONS WHEN POSSIBLE. (OPTIONAL)							
8	4. WHEN COMPLETE, RETURN ALL PARTS TO ENGINEER IN ORIGINAL SHIPPING CARTON (IF POSSIBLE) AND DRAWING WITH IDENTIFIERS.							
9								
10	INSPECTOR NOTES: DIAMETER DIM B AND C ARE + PIN GAGES							
11								
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19	**plus**	**minus**	**1**	**2**	**3**	**4**	**5**	**6**
20	0.001	0.001	0.1759	0.1760	0.1759	0.1758	0.1758	0.1760
21	0.001	0.001	0.0988	0.0988	0.0988	0.0987	0.0987	0.0987
22	0.001	0.001	0.0988	0.0988	0.0988	0.0987	0.0987	0.0987
23			0.0003	0.0003	0.0003	0.0002	0.0002	0.0002
24	0.000	0.003	IN	IN	IN	IN	IN	IN
25	0.0015	0.0015	0.1600	0.1598	0.1600	0.1600	0.1599	0.1599
26	0.0015	0.0015	0.1049	0.1052	0.1051	0.1048	0.1052	0.1050
27	0.0025	0.0025	0.2892	0.2897	0.2895	0.2892	0.2896	0.2895
28	0.0025	0.0025	0.2652	0.2657	0.2658	0.2655	0.2656	0.2656
29	0.0025	0.0025	0.2713	0.2718	0.2715	0.2711	0.2717	0.2715
30	0.0025	0.0025	0.3153	0.3156	0.3158	0.3156	0.3158	0.3157
31	0.0025	0.0025	0.1435	0.1435	0.1435	0.1433	0.1432	0.1431
32	0.0025	0.0025	0.1002	**0.1026**	0.1002	0.1005	0.1007	0.1007
33	0.0025	0.0025	0.2503	0.2502	0.2504	0.2508	0.2500	0.2502
34	0.0025	0.0025	**0.0209**	**0.0374**	**0.0485**	**0.0441**	**0.0256**	**0.0337**
35	0.0025	0.0025	0.0103	0.0113	0.0111	0.0112	0.0096	0.0113
36	0.0025	0.0025	0.0130	0.0155	0.0135	0.0150	**0.0216**	**0.0205**
37	0.0025	0.0025	0.0491	**0.0467**	0.0495	0.0498	**0.0474**	0.0491
38	0.0025	0.0025	0.0172	0.0155	0.0145	0.0172	0.0131	**0.0178**
39	0.0025	0.0025	0.3005	**0.2973**	0.2992	0.2977	**0.3036**	0.3012
40	0.0025	0.0025	0.0155	0.0157	0.0154	0.0171	0.0165	0.0167
41	0.500	0.500	29.0406	29.0234	28.9890	28.8009	29.0584	28.9005
42	0.500	0.500	99.0347	99.0309	98.8927	98.7539	98.8492	98.9018
43	0.500	0.500	55.1037	**54.2090**	55.2359	54.9017	54.9088	54.7860
44	0.500	0.500	34.9800	35.0526	34.9662	35.0072	34.9958	35.0056
45			0.0900	0.0916	0.0903	0.0886	0.0912	0.0899
46			0.1535	0.1496	0.1478	0.1490	0.1550	0.1495
47			.1255-	.125+	.125+	.1245+	.125+	.125+
48	0.001	0.001	0.1253	0.1252	0.1252	0.1247	0.1252	0.1252
49			0.0013	0.0012	0.0012	0.0007	0.0012	0.0012
50	0.000	0.010	IN	IN	IN	IN	**0.0013**	IN
51	0.007	0.007	0.1676	0.1682	0.1663	0.1667	0.1656	0.1640

	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
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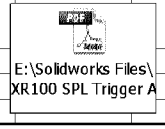
19	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**
20	0.1759	0.1757	0.1758	0.1758	0.1760	0.1759	0.1759	0.1759	0.1758	0.1757	0.1759	0.1758	0.1757	0.1759	0.1758	0.1758
21	0.0987	0.0987	0.0987	0.0987	0.0987	0.0987	0.0987	0.0987	0.0987	0.0987	0.0987	0.0988	0.0987	0.0987	0.0988	0.0987
22	0.0987	0.0987	0.0987	0.0987	0.0987	0.0987	0.0987	0.0987	0.0987	0.0987	0.0987	0.0988	0.0987	0.0987	0.0988	0.0987
23	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0003	0.0002
24	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
25	0.1600	0.1600	0.1603	0.1599	0.1599	0.1600	0.1599	0.1604	0.1601	0.1602	0.1599	0.1600	0.1602	0.1601	0.1601	0.1598
26	0.1044	0.1051	0.1050	0.1053	0.1048	0.1048	0.1048	0.1059	0.1046	0.1052	0.1046	0.1048	0.1049	0.1051	0.1056	0.1047
27	0.2910	0.2895	0.2893	0.2893	0.2905	0.2897	0.2908	0.2891	0.2898	0.2894	0.2894	0.2897	0.2894	0.2892	0.2891	0.2897
28	0.2640	0.2654	0.2653	0.2651	0.2637	0.2655	0.2640	0.2663	0.2658	0.2656	0.2654	0.2653	0.2656	0.2651	0.2663	0.2650
29	**0.2739**	0.2714	0.2715	0.2713	0.2726	0.2717	**0.2739**	0.2707	0.2720	0.2714	0.2718	0.2716	0.2714	0.2717	0.2710	0.2721
30	0.3134	0.3153	0.3159	0.3161	0.3148	0.3157	0.3135	0.3162	0.3159	0.3161	0.3156	0.3154	0.3158	0.3155	0.3162	0.3154
31	**0.1456**	0.1431	0.1434	0.1431	0.1447	0.1435	0.1449	0.1425	0.1442	0.1431	0.1434	0.1432	0.1433	0.1435	0.1427	0.1438
32	**0.1038**	0.1009	0.1005	0.1003	0.1016	0.1005	0.1022	0.0998	0.1016	0.0999	0.0999	0.0999	0.1000	0.1015	0.1010	0.1011
33	0.2511	0.2504	0.2505	0.2504	0.2513	0.2503	0.2505	0.2496	0.2508	0.2503	0.2504	0.2504	0.2504	0.2509	0.2499	0.2506
34	**0.0267**	**0.0320**	**0.0554**	**0.0267**	0.0166	**0.0296**	**0.0228**	**0.0212**	**0.0220**	**0.0366**	**0.0291**	**0.0207**	**0.0221**	**0.0535**	**0.0255**	**0.0220**
35	0.0122	0.0091	**0.0131**	**0.0137**	**0.0137**	**0.0204**	0.0117	**0.0144**	0.0124	**0.0134**	0.0125	0.0086	0.0092	0.0110	0.0101	**0.0131**
36	0.0160	0.0147	0.0133	0.0174	0.0133	**0.0124**	0.0156	0.0146	0.0138	**0.0177**	**0.0110**	**0.0241**	**0.0180**	0.0132	**0.0187**	0.0155
37	0.0479	0.0482	0.0523	0.0508	0.0499	**0.0465**	0.0518	0.0496	0.0491	0.0483	0.0494	0.0493	0.0511	0.0479	**0.0473**	0.0502
38	0.0165	0.0155	0.0141	0.0147	0.0170	0.0163	**0.0180**	0.0146	0.0166	0.0165	0.0141	0.0145	0.0172	0.0156	0.0162	0.0153
39	0.2985	0.2997	0.3009	**0.2947**	0.2980	0.3010	0.2998	**0.2959**	0.2981	0.3014	0.2999	0.3024	0.2995	0.2977	0.3000	0.2979
40	0.0155	0.0155	0.0160	0.0150	0.0150	0.0150	0.0161	**0.0197**	0.0159	0.0163	0.0166	**0.0183**	0.0160	0.0175	0.0149	0.0166
41	28.9450	29.1149	28.9458	28.9865	28.8417	28.9537	28.6441	29.0223	28.9996	28.9640	29.0565	29.0858	29.1641	28.8050	28.9466	28.8989
42	98.9899	98.9123	99.0270	98.8229	98.8872	99.0575	99.0000	98.9856	98.9585	98.9070	98.9638	99.0447	98.9745	98.9110	98.8437	98.8596
43	54.7517	54.8293	54.9627	54.8212	55.1165	55.1132	55.1868	54.9972	54.7830	55.1768	55.3207	55.3413	55.1173	54.7679	54.5130	55.0137
44	34.9204	34.9973	34.8150	35.0858	34.8906	**34.3976**	34.5354	34.8833	34.6575	35.0120	34.8213	35.0058	34.9396	34.7329	34.7213	34.7830
45	0.0909	0.0887	0.0910	0.0894	0.0894	0.0924	0.0891	0.0892	0.0889	0.0898	0.0918	0.0897	0.0912	0.0912	0.0911	0.0882
46	0.1487	0.1501	0.1558	0.1472	0.1489	0.1476	0.1513	0.1524	0.1490	0.1478	0.1527	0.1486	0.1502	0.1579	0.1539	0.1528
47	.125+	.125+	.125+	.125+	.1245+	.125+	.125+	.1255-	.125-	.125+	.125+	.125+	.125+	.125-	.125-	.125+
48	0.1252	0.1252	0.1252	0.1252	0.1247	0.1252	0.1252	0.1253	0.1248	0.1252	0.1252	0.1252	0.1252	0.1248	0.1248	0.1252
49	0.0012	0.0012	0.0012	0.0012	0.0007	0.0012	0.0012	0.0013	0.0008	0.0012	0.0012	0.0012	0.0012	0.0008	0.0008	0.0012
50	IN	IN	**0.0024**	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	**0.0067**	IN	IN
51	0.1627	0.1699	0.1622	**0.1604**	**0.1600**	0.1640	0.1694	0.1637	**0.1774**	0.1649	0.1628	0.1653	0.1725	0.1643	0.1624	0.1673

	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19	**23**	**24**	**25**	**AVG**	**STDEV**	**Method**					
20	0.1759	0.1758	0.1758	0.1758	0.0001	MIC					
21	0.0987	0.0987	0.0987	0.0987	0.0000	PIN					
22	0.0987	0.0987	0.0987	0.0987	0.0000	PIN					
23	0.0002	0.0002	0.0002	0.0002	0.0000	Calculated					
24	IN	IN	IN			Calculated					
25	0.1602	0.1602	0.1600	0.1600	0.0001	MV					
26	0.1045	0.1048	0.1051	0.1050	0.0003	MV					
27	0.2905	0.2892	0.2894	0.2896	0.0005	MV					
28	0.2644	0.2651	0.2651	0.2653	0.0007	MV					
29	0.2732	0.2712	0.2715	0.2718	0.0008	MV					
30	0.3136	0.3154	0.3156	0.3154	0.0008	MV					
31	0.1447	0.1432	0.1436	0.1436	0.0007	MV					
32	0.1023	0.1001	0.0999	0.1009	0.0010	MV					
33	0.2505	0.2504	0.2504	0.2504	0.0003	MV					
34	**0.0601**	**0.0204**	**0.0286**	0.0313	0.0122	MV					
35	0.0124	0.0118	0.0120	0.0120	0.0023	MV					
36	0.0163	**0.0105**	0.0155	0.0156	0.0032	MV					
37	**0.0526**	0.0502	0.0495	0.0493	0.0016	MV					
38	0.0150	0.0139	**0.0122**	0.0156	0.0015	MV					
39	**0.2973**	0.2997	0.3003	0.2993	0.0020	MV					
40	0.0157	0.0166	0.0147	0.0161	0.0011	MV					
41	28.9820	29.2668	29.1004	28.9815	0.1278	MV					
42	99.0814	98.9795	98.9802	98.9460	0.0826	MV					
43	55.1390	55.0341	55.2298	54.9744	0.2583	MV					
44	34.7131	34.8139	34.8978	34.8652	0.1682	MV					
45	0.0896	0.0922	0.0896	0.0902	0.0012	MV					
46	0.1497	0.1551	0.1545	0.1511	0.0030	MV					
47	.125-	.125+	.125-			PIN					
48	0.1248	0.1252	0.1248	0.1251	0.0002	PIN					
49	0.0008	0.0012	0.0008			Calculated					
50	IN	**0.0026**	IN			Calculated					
51	0.1620	0.1636	0.1682	0.1657	0.0039	MV					

	A	B
52	BB	DEPTH
53	CC	DEGREE
54	DD	DEGREE
55	EE	OVERLAY@20X (profile)
56	Z	Diameter
57	AA to Z	Eccentricity
58		
59		
60		
61		**OHL**
62		**ULL**
63		
64		
65		
66		
67		

	C
52	**0.380**
53	**35.000**
54	**60.000**
55	
56	**0.125**
57	
58	
59	
60	All items inside this box are for informational purposes only. Acceptance or rejection of the parts are based solely up conformance of the parts to the profile tolerance evaluated with the comparator screen.
61	= over high limit
62	= under low limit
63	
64	
65	
66	
67	

	D	E	F	G	H	I	J	K
52	0.010	0.010	0.3770	0.3750	0.3740	0.3790	0.3790	0.3790
53	0.500	0.500	35.3105	**35.5678**	35.2443	35.1813	35.0056	35.2754
54			n/a	n/a	n/a	n/a	n/a	n/a
55			OK	OK	OK	OK	OK	OK
56	0.001	0.001	0.1254	0.1251	**0.1264**	0.1253	0.1258	0.1253
57			0.0018	0.0029	0.0012	0.0005	0.0018	0.0022
58								
59								
60								
61								
62								
63								
64								
65								
66								
67								



	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
52	0.3740	0.3730	0.3740	0.3790	0.3700	0.3830	0.3770	0.3810	0.3750	0.3850	0.3760	0.3830	0.3700	0.3720	0.3780	0.3800
53	34.8335	35.1537	35.2188	**34.0312**	35.0773	35.2270	**35.5458**	35.2667	35.3084	35.1552	35.3174	35.1249	35.1489	35.3722	**35.5233**	**34.0960**
54	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
55	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
56	0.1250	0.1252	0.1251	0.1253	0.1247	0.1255	0.1248	0.1260	0.1255	0.1247	0.1255	0.1253	0.1256	0.1250	0.1253	0.1253
57	0.0018	0.0013	0.0022	0.0053	0.0024	0.0033	0.0025	0.0009	0.0012	0.0015	0.0020	0.0017	0.0021	0.0024	0.0030	0.0020
58																
59																
60																
61																
62																
63																
64																
65																
66																
67																

	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL
52	0.3720	0.3800	0.3750	0.3768	0.0040	HG					
53	35.2363	**36.1118**	**35.6872**	35.2008	0.4230	MV					
54	n/a	n/a	n/a								
55	OK	OK	OK			OVERLAY					
56	0.1253	0.1256	0.1250	0.1253	0.0004	MV					
57	0.0011	0.0035	0.0023	0.0021	0.0010	MV					
58											
59											
60											
61											
62											
63											
64											
65											
66											
67											

Cell: F21
Comment: Jim Ronkainen:
was .0987 on MicroVu

Cell: G21
Comment: Jim Ronkainen:
was .0986 on MicroVu

Cell: H21
Comment: Jim Ronkainen:
was .0979 on MicroVu

Cell: I21
Comment: Jim Ronkainen:
was .0981 on MicroVu

Cell: J21
Comment: Jim Ronkainen:
was .0982 on MV

Cell: K21
Comment: Jim Ronkainen:
was .0984 on MV

Cell: L21
Comment: Jim Ronkainen:
was .0973 on MV

Cell: M21
Comment: Jim Ronkainen:
was .0983 on MV

Cell: N21
Comment: Jim Ronkainen:
was .0980 on MV

Cell: O21
Comment: Jim Ronkainen:
was .0981 on MV

Cell: P21
Comment: Jim Ronkainen:
.0979 on MV

Cell: Q21
Comment: Jim Ronkainen:
was .0984 on MV

Cell: R21
Comment: Jim Ronkainen:
.0979 on MV

Cell: S21

Comment: Jim Ronkainen:
.0969 on MV

Cell: T21
Comment: Jim Ronkainen:
.0974 in MV

Cell: U21
Comment: Jim Ronkainen:
.0982 on MV

Cell: V21
Comment: Jim Ronkainen:
.0983 on MV

Cell: W21
Comment: Jim Ronkainen:
.0986 in MV

Cell: X21
Comment: Jim Ronkainen:
.0983 on MV

Cell: Y21
Comment: Jim Ronkainen:
.0975 on MV

Cell: Z21
Comment: Jim Ronkainen:
.0971 on MV

Cell: AA21
Comment: Jim Ronkainen:
.0981 on MV

Cell: AB21
Comment: Jim Ronkainen:
.0983 on MV

Cell: AC21
Comment: Jim Ronkainen:
.0984 on MV

Cell: AD21
Comment: Jim Ronkainen:
.0984 on MV

Cell: F22
Comment: Jim Ronkainen:
was .0984 on MicroVu

Cell: G22
Comment: Jim Ronkainen:

was .0986 on MicroVu

Cell: H22
Comment: Jim Ronkainen:
was .0980 on MicroVu

Cell: I22
Comment: Jim Ronkainen:
was .0979 on MicroVu

Cell: J22
Comment: Jim Ronkainen:
was .0980 on MV

Cell: K22
Comment: Jim Ronkainen:
was .0982 on MV

Cell: L22
Comment: Jim Ronkainen:
was .0977 on MV

Cell: M22
Comment: Jim Ronkainen:
was .0983 on MV

Cell: N22
Comment: Jim Ronkainen:
was .0982 on MV

Cell: O22
Comment: Jim Ronkainen:
was .0978 on MV

Cell: P22
Comment: Jim Ronkainen:
was .0975 on MV

Cell: Q22
Comment: Jim Ronkainen:
was .0983 on MV

Cell: R22
Comment: Jim Ronkainen:
.0980 on MV

Cell: S22
Comment: Jim Ronkainen:
.0981 on MV

Cell: T22
Comment: Jim Ronkainen:
.0980 on MV

Cell: U22
Comment: Jim Ronkainen:
.0982 on MV

Cell: V22
Comment: Jim Ronkainen:
.0981 on MV

Cell: W22
Comment: Jim Ronkainen:
.0984 on MV

Cell: X22
Comment: Jim Ronkainen:
.0983 on MV

Cell: Y22
Comment: Jim Ronkainen:
.0977 on MV

Cell: Z22
Comment: Jim Ronkainen:
.0977 on MV

Cell: AA22
Comment: Jim Ronkainen:
.0980 on MV

Cell: AB22
Comment: Jim Ronkainen:
.0981 on MV

Cell: AC22
Comment: Jim Ronkainen:
.0985 on MV

Cell: AD22
Comment: Jim Ronkainen:
.0984 on MV

Cell: A27
Comment: Jim Ronkainen:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A28
Comment: Jim Ronkainen:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A29
Comment: Jim Ronkainen:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A30

Comment: Jim Ronkainen:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A31
Comment: Jim Ronkainen:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A32
Comment: Jim Ronkainen:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A33
Comment: Jim Ronkainen:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A34
Comment: Jim Ronkainen:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A35
Comment: Jim Ronkainen:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A36
Comment: Jim Ronkainen:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A37
Comment: Jim Ronkainen:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A38
Comment: Jim Ronkainen:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A39
Comment: Jim Ronkainen:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A40
Comment: Jim Ronkainen:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A41
Comment: Jim Ronkainen:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A42
Comment: Jim Ronkainen:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A43
Comment: Jim Ronkainen:

For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A44
Comment: Jim Ronkainen:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A46
Comment: Jim Ronkainen:
Method used to measure this dimension is not repeatable - very sensitive to pin fit in hole. Measurement of position was done to the exterior of gage pin where small variations in the angle will cause wide variations in the measured position.

Cell: J50
Comment: Jim Ronkainen:
Most of the variation in position is front-to-back, not side-to-side. OK to use as-is. Note any functional issues on data sheets.

Cell: N50
Comment: Jim Ronkainen:
Most of the variation in position is front-to-back, not side-to-side. OK to use as-is. Note any functional issues on data sheets.

Cell: Y50
Comment: Jim Ronkainen:
Most of the variation in position is front-to-back, not side-to-side. OK to use as-is. Note any functional issues on data sheets.

Cell: AC50
Comment: Jim Ronkainen:
Most of the variation in position is front-to-back, not side-to-side. OK to use as-is. Note any functional issues on data sheets.

Cell: A51
Comment: Jim Ronkainen:
Most parts were running below spec - parts were tried parts as-is and modified as necessary where any issues arose. Original specification for c'sink diameter (.175 +/-.005) was modified to .168 +/-.007.

Cell: O51
Comment: Jim Ronkainen:
Dimension is below specification, but does not impede function. Use as-is and note any unusual performance.

Cell: P51
Comment: Jim Ronkainen:
Dimension is below specification, but does not impede function. Use as-is and note any unusual performance.

Cell: T51
Comment: Jim Ronkainen:
originally measured at .1597, but caused hitch in trigger pull. C'sink was increased and hitch went away. Dimension is now above specification, but does not impede function. Use as-is and note any unusual performance.

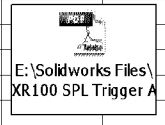
Cell: A52
Comment: Jim Ronkainen:
Nominal value for hole depth increased and tolerance increased as well. Adjustment screw will accommodate increased hole depth.

Cell: A53
Comment: Jim Ronkainen:
Accurate measurement of angle is difficult due to short length of datum edge. Parts ok to use as-is and any issues that arise will be addressed.

Cell: A56

Comment: Jim Ronkainen:
Pin gage is the method of record for determining hole diameter, not MicroVu. See dimension Z above.

Cell: B57
Comment: Jim Ronkainen:
for informational purposes only

	A	B	C
1			
2			
3			
4			
5			
6			
7			
8	View with Adobe Acrobat to properly show highlighting.		

THIS DRAWING OR INFORMATION IS PROPRIETARY INFORMATION OF THE REMINGTON ARMS COMPANY, INC.

DO NOT SCALE THIS DRAWING: WORK TO FIGURES UNLESS OTHERWISE NOTED.
TOLERANCES ON DECIMAL DIMENSIONS ARE:
1 PLACE (0.1) - TOLERANCE ± 0.015
2 PLACE (0.01) - TOLERANCE ± 0.010
3 PLACE (0.001) - TOLERANCE ± 0.005
& ON FRACTIONAL DIMENSIONS ± 1/64
& ON ANGULAR DIMENSIONS ± 0.5°
FINISHES ARE DESIGNATED BY ROOT MEAN SQUARE (R.M.S.) MICRO-INCH ROUGHNESS VALUES AND ARE THE MAXIMUM ROUGHNESS ACCEPTABLE. UNLESS OTHERWISE SPECIFIED.

FINISH ROUGHNESS TO BE 125 OR BETTER.
DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5-1994.

MATERIAL AND HEAT TREAT

MATERIAL : MPIF F-0000-20 (7.1 G/CC MIN)

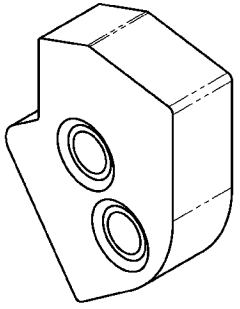
HEAT TREAT : NONE

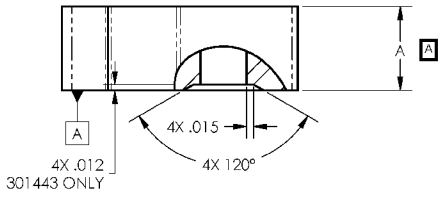
HARDNESS : N/A

FINISH : NONE

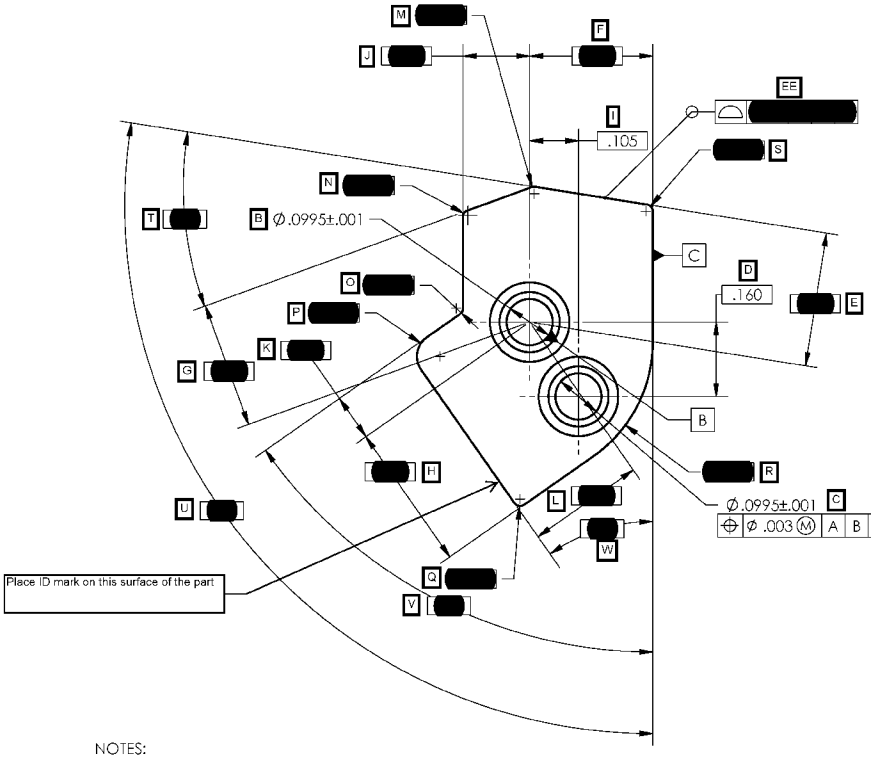
HEAT TREAT AND FINISH TO BE DONE BY REMINGTON

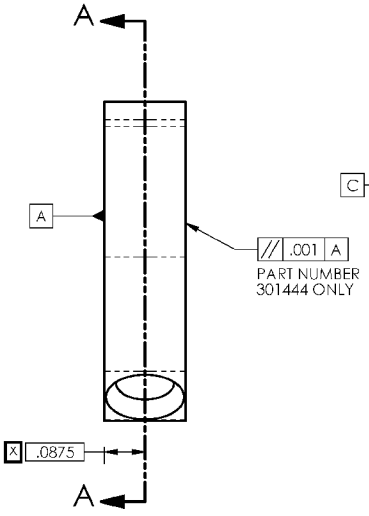
ALTERATIONS					
ALT.	ZONE	WAS	REF.	BY	DATE
A	B7	.38 WAS .375		JWR	04-02-07
B	B6	Ø.168±.007 WAS Ø.175		JWR	04-02-07
C	B7	WAS Ø.006 WITHOUT BONUS		JWR	04-02-07



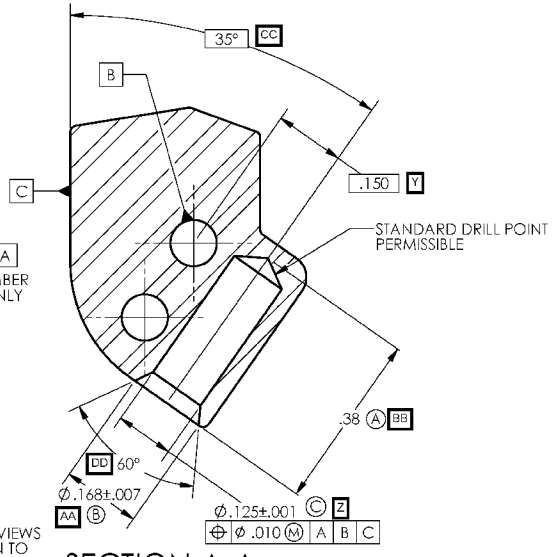


PART NUMBER	DIMENSION A
301443 - BLANK	0.180±.002
301444 - FINISHED PART	0.175±.001





FEATURES SHOWN IN THESE VIEWS TO BE DONE BY REMINGTON TO PART NUMBER 301444 AFTER GRINDING TO THICKNESS



SECTION A-A

NOTES:
1. RESIN IMPREGNATE BLANK.

	301443	REAR SPACER - BLANK
	301444	REAR SPACER
MODEL	PART NO.	PART USE
DES. BY DATE: JWR 12-7-05	DRN. BY DATE: JWR 01-05-06	CHK. BY DATE:

TITLE: REAR SPACER BLOCK

SHEET SIZE	NUMBER	SCALE	SUPERSEDES	REFERENCE
C	301444	5X		

REMINGTON ARMS CO., INC.
Madison, NC 27025

SolidWorks File: 301444 - rear spacer block

NOT RELEASED FOR PRODUCTION

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

R 2193533

THIS DRAWING OR INFORMATION IS PROPRIETARY INFORMATION OF THE REMINGTON ARMS COMPANY, INC.

DO NOT SCALE THIS DRAWING: WORK TO FIGURES UNLESS OTHERWISE NOTED.
TOLERANCES ON DECIMAL DIMENSIONS ARE:
1 PLACE (0.1) - TOLERANCE ± 0.015
2 PLACE (0.01) - TOLERANCE ± 0.010
3 PLACE (0.001) - TOLERANCE ± 0.005
& ON FRACTIONAL DIMENSIONS ± 1/64
& ON ANGULAR DIMENSIONS ± 0.5°
FINISHES ARE DESIGNATED BY ROOT MEAN SQUARE (R.M.S.) MICRO-INCH ROUGHNESS VALUES AND ARE THE MAXIMUM ROUGHNESS ACCEPTABLE. UNLESS OTHERWISE SPECIFIED.

FINISH ROUGHNESS TO BE 125 OR BETTER.
DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5-1994.

MATERIAL AND HEAT TREAT

MATERIAL : MPIF F-0000-20 (7.1 G/CC MIN)

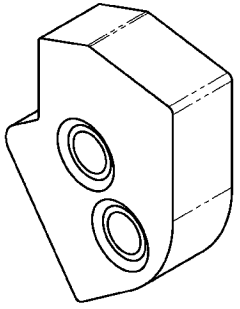
HEAT TREAT : NONE

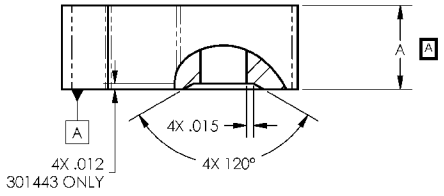
HARDNESS : N/A

FINISH : NONE

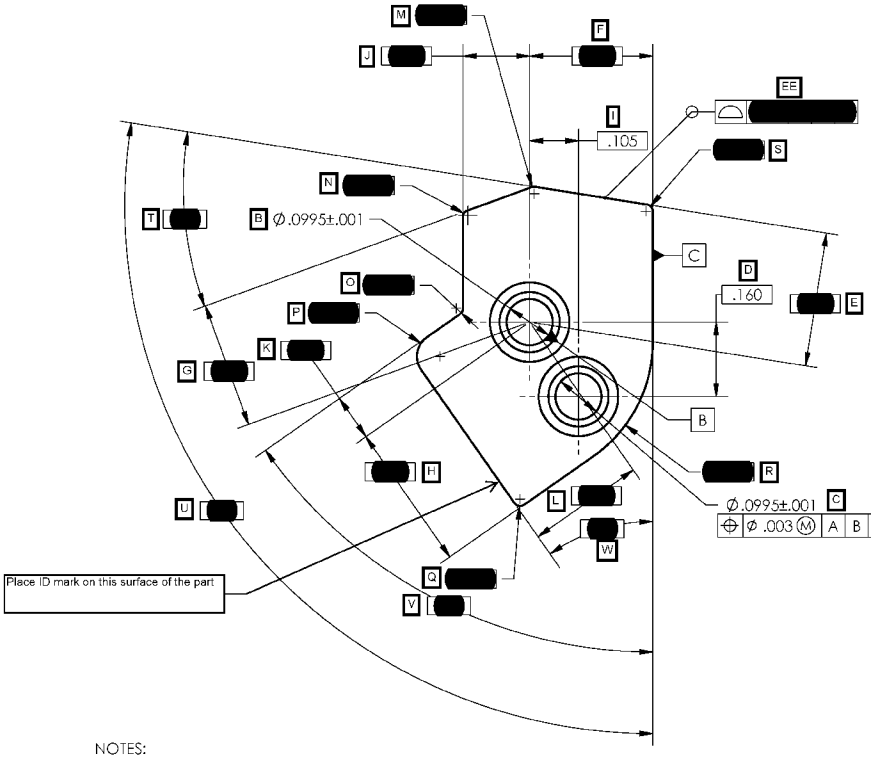
HEAT TREAT AND FINISH TO BE DONE BY REMINGTON

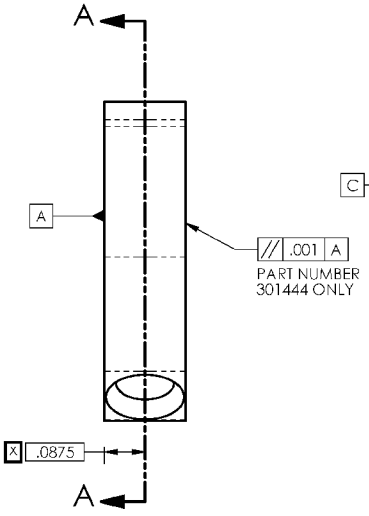
ALTERATIONS					
ALT.	ZONE	WAS	REF.	BY	DATE
A	B7	.38 WAS .375		JWR	04-02-07
B	B6	Ø.168±.007 WAS Ø.175		JWR	04-02-07
C	B7	WAS Ø.006 WITHOUT BONUS		JWR	04-02-07



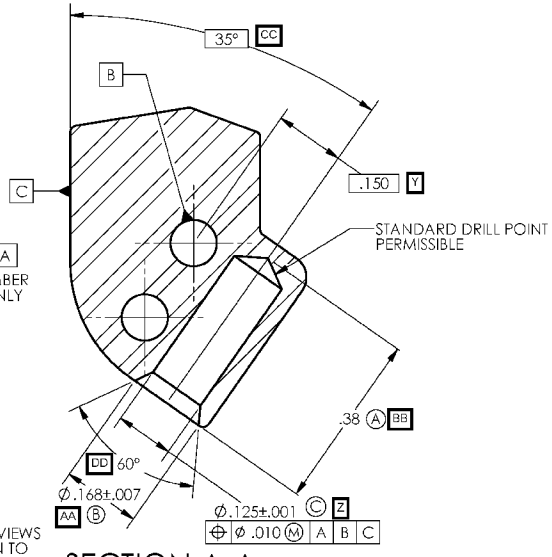


PART NUMBER	DIMENSION A
301443 - BLANK	0.180±.002
301444 - FINISHED PART	0.175±.001





FEATURES SHOWN IN THESE VIEWS TO BE DONE BY REMINGTON TO PART NUMBER 301444 AFTER GRINDING TO THICKNESS



SECTION A-A

NOTES:
1. RESIN IMPREGNATE BLANK.

	301443	REAR SPACER - BLANK
	301444	REAR SPACER
MODEL	PART NO.	PART USE
DES. BY DATE: JWR 12-7-05	DRN. BY DATE: JWR 01-05-06	CHK. BY DATE:
TITLE: REAR SPACER BLOCK		
SHEET SIZE: C	NUMBER: 301444	SCALE: 5X; SUPERSEDES; REFERENCE
REMINGTON ARMS CO., INC. Madison, NC 27025		

SolidWorks File: 301444 - rear spacer block

NOT RELEASED FOR PRODUCTION

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

R 2193534

From: Ronkainen, Jim
To: Snedeker, Jim; Reesor, Phillip K.
CC: Wade, Jeff L.
Sent: 4/5/2007 3:38:04 PM
Subject: TLW2170 Activities (except dry cycle) Complete

Jim and Phillip,
We've finished all of the shooting and measuring activities for the 40X XMP trigger assemblies for DAT. In light of the pending lab workload, the optional post-endurance accuracy test has been summarily cancelled by Messrs Franz and Diaz. The only outstanding DAT activity remaining to be completed is dry cycle.

Have a Happy Easter! Try not to eat too much chocolate – see you all on Monday.

Jim Ronkainen
Staff Engineer
Remington Arms Co. Inc.
R&D Technical Center
315 W. Ring Road
Elizabethtown, KY 42701
(270) 769-7613 (phone)
(270) 737-9576 (fax)
jim.ronkainen@remington.com
visit us at www.remington.com

	A	B	C	D	E	F	G	H	I	J	K	L	M
1		A1 factory settings	A2 factory settings	A3 factory settings	A4 factory settings	A5 factory settings	A6 factory settings	A7 factory settings	A8 factory settings	A9 factory settings	A10 factory settings	A11 factory settings	A12 factory settings
2	Engagement	0.0230	0.0288	0.0243	0.0216	0.0280	0.0202	0.0215	0.0225	0.0204	0.0226	0.0271	0.0315
3	Overtravel	0.020	0.015	0.019	0.023	0.019	0.022	0.021	0.023	0.023	0.022	0.021	0.020
4	TP1	3.291	2.962	3.609	2.975	3.404	3.548	3.233	3.656	4.000	3.728	2.999	3.969
5	TP2	3.510	2.627	4.342	3.061	2.498	3.514	3.517	3.505	3.731	3.728	3.027	4.151
6	TP3	3.449	2.661	4.004	3.187	2.874	3.460	3.499	3.436	3.532	3.677	2.794	3.928
7	TP4	3.456	2.715	3.219	3.066	2.520	3.399	3.504	3.505	3.328	3.715	2.885	4.161
8	TP5	3.383	2.637	3.332	2.989	2.485	3.434	3.545	3.489	3.389	3.763	2.905	4.110
9	TP6	4.039	2.567	3.341	3.111	2.458	3.490	3.412	3.340	3.244	3.751	2.976	4.087
10	TP7	3.387	3.020	3.174	3.466	2.439	3.461	3.485	3.009	3.969	3.713	3.034	4.106
11	TP8	3.614	2.828	3.354	3.164	2.476	3.500	3.418	3.518	3.318	3.717	2.852	4.136
12	TP9	3.498	2.636	3.350	3.170	2.652	3.540	3.498	3.167	3.240	3.653	2.860	3.966
13	TP10	4.379	2.662	3.254	3.991	2.488	3.504	3.462	3.327	3.066	3.512	3.820	4.070
14	Avg.	3.601	2.732	3.498	3.218	2.629	3.485	3.457	3.395	3.482	3.696	3.015	4.068
15	SD	0.342	0.153	0.383	0.305	0.302	0.047	0.089	0.190	0.319	0.072	0.294	0.084

	N	O	P
1	A13 factory settings	A14 factory settings	A15 factory settings
2	0.0222	0.0269	0.0224
3	0.021	0.024	0.019
4	3.750	3.154	3.827
5	3.831	3.326	3.612
6	3.628	3.052	3.575
7	3.752	3.275	4.121
8	3.869	3.186	3.684
9	3.474	3.128	3.716
10	4.077	3.299	3.656
11	3.717	3.149	3.58
12	3.552	3.059	3.609
13	3.605	2.783	3.477
14	3.726	3.141	3.686
15	0.174	0.157	0.179

Cell: F1
Comment: metrology1:
PM trigger
safety operates hard

Cell: L1
Comment: metrology1:
PM trigger

Cell: M1
Comment: metrology1:
PM trigger

Cell: O1
Comment: metrology1:
PM trigger

	A	B	C	D	E	F	G	H
1	Trigger Assembly Number	Housing	Trigger			Trigger Housing	Rear Spacer	
2	1	1	1			1	1	
3	2	2	2			2	2	
4	3	3	3			3	3	
5	4	4	4			4	4	
6	5	5	5			5	5	
7	6	6	6			6	6	
8	7	7	7			7	7	
9	8	8	8			8	8	
10	9	9	9			9	9	
11	10	10	10			10	10	
12	11	11	11			11	11	
13	12	13	12			12	12	lost
14	13	14	13			13	13	
15	14	15	14			14	14	
16	15	16	15			15	15	
17	16	17	16			16	16	
18	17	18	17			17	17	
19	18	19	18			18	18	
20	19	20	19			19	19	
21	20	21	21			20	20	
22	21	22	22			21	21	
23	22	23	23			22	22	
24	23	24	24			23	23	
25	24	25	25			24	24	
26						25	25	

Cell: B13
Comment: Jim Ronkainen:
Ilion lost housing with rear spacer #12 while it was being processed.

Cell: C21
Comment: Jim Ronkainen:
Ilion lost trigger #20 while it was being processed.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1		**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**	**A10**	**A11**	**A12**	**A13**	**A14**
2	Engagement 1	0.0200	0.0200	0.0198	0.0204	0.0204	0.0200	0.0202	0.0201	0.0201	0.0201	0.0200	0.0200	0.0202	0.0201
3	Engagement 2	0.0201	0.0199	0.0199	0.0204	0.0207	0.0200	0.0201	0.0201	0.0202	0.0201	0.0198	0.0201	0.0204	0.0201
4	Engagement 3	0.0201	0.0200	0.0199	0.0205	0.0207	0.0201	0.0202	0.0201	0.0203	0.0201	0.0198	0.0202	0.0204	0.0200
5	Average:	0.0201	0.0200	0.0199	0.0204	0.0206	0.0200	0.0202	0.0201	0.0202	0.0201	0.0199	0.0201	0.0203	0.0201
6	SD:	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0000	0.0001	0.0000	0.0001	0.0001	0.0001	0.0001
7															
8	TMIS 1	0.003	0.004	0.005	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
9	TMIS 2	0.003	0.004	0.005	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
10	TMIS 3	0.003	0.004	0.005	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.003
11	Average:	0.0030	0.0040	0.0050	0.0030	0.0030	0.0040	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	0.0033	0.0030
12	SD:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0006	0.0000
13	Overtravel	0.028	0.032	0.036	0.026	0.028	0.036	0.028	0.034	0.034	0.032	0.032	0.034	0.031	0.032
14	**MIN**														
15	Trigger Pull 1	2.445	2.512	2.466	2.545	2.531	2.483	2.550	2.754	2.601	2.526	2.541	2.634	2.588	2.466
16	Trigger Pull 2	2.592	2.591	2.516	2.645	2.573	2.592	2.707	2.618	2.439	2.492	2.489	2.513	2.520	2.583
17	Trigger Pull 3	2.538	2.561	2.485	2.458	2.577	2.691	2.590	2.670	2.522	2.499	2.555	2.608	2.504	2.577
18	Trigger Pull 4	2.577	2.585	2.510	2.565	2.543	2.712	2.552	2.568	2.693	2.526	2.601	2.472	2.588	2.542
19	Trigger Pull 5	2.515	2.563	2.535	2.479	2.582	2.620	2.609	2.523	2.482	2.581	2.580	2.550	2.510	2.533
20	Trigger Pull 6	2.431	2.631	2.532	2.525	2.504	2.693	2.558	2.602	2.645	2.561	2.534	2.496	2.596	2.676
21	Trigger Pull 7	2.571	2.635	2.747	2.471	2.693	2.626	2.600	2.569	2.551	2.571	2.588	2.516	2.546	2.466
22	Trigger Pull 8	2.543	2.597	2.504	2.605	2.520	2.659	2.504	2.651	2.607	2.482	2.542	2.640	2.449	2.564
23	Trigger Pull 9	2.577	2.564	2.523	2.560	2.545	2.651	2.553	2.672	2.648	2.583	2.593	2.494	2.533	2.597
24	Trigger Pull 10	2.531	2.539	2.515	2.605	2.526	2.634	2.593	2.640	2.580	2.482	2.543	2.588	2.533	2.558
25	Average:	2.532	2.578	2.533	2.546	2.559	2.636	2.582	2.627	2.577	2.530	2.557	2.551	2.537	2.556
26	SD:	0.055	0.038	0.078	0.063	0.054	0.065	0.054	0.066	0.079	0.041	0.034	0.062	0.046	0.062
27	**MAX**														
28	Trigger Pull 1	5.998	6.036	6.020	5.835	5.461	6.039	5.705	5.758	6.542	6.061	6.366	6.339	6.061	6.364
29	Trigger Pull 2	6.082	5.860	5.853	6.053	5.605	6.120	5.818	5.738	6.534	5.962	6.357	6.384	6.181	6.393
30	Trigger Pull 3	6.003	6.172	5.904	6.080	5.553	6.167	5.631	5.731	6.580	5.830	6.461	6.494	6.053	6.401
31	Trigger Pull 4	6.072	6.024	6.026	5.944	5.562	6.356	5.619	5.675	6.638	5.898	6.638	6.366	6.409	6.405
32	Trigger Pull 5	6.192	6.095	5.942	5.707	5.729	6.061	5.648	5.777	6.547	5.878	6.332	6.401	6.054	6.421
33	Trigger Pull 6	6.090	5.934	5.953	5.696	5.714	6.007	5.854	5.649	6.504	5.947	6.338	6.266	6.018	6.311
34	Trigger Pull 7	6.084	5.894	5.995	6.077	5.718	6.061	5.785	6.205	6.506	5.982	6.488	6.234	6.199	6.331
35	Trigger Pull 8	6.035	5.841	5.936	5.715	5.689	6.019	5.755	5.947	6.477	5.986	6.304	6.300	6.296	6.368
36	Trigger Pull 9	6.061	6.042	5.704	5.725	5.592	6.534	5.682	5.972	6.528	5.982	6.479	6.345	6.267	6.374
37	Trigger Pull 10	6.084	5.971	5.811	5.768	5.572	5.973	5.684	6.026	6.496	6.099	6.396	6.277	6.094	6.390
38	Average:	6.070	5.987	5.914	5.860	5.620	6.134	5.718	5.848	6.535	5.963	6.416	6.341	6.163	6.376
39	SD:	0.055	0.106	0.101	0.163	0.089	0.178	0.081	0.180	0.047	0.081	0.101	0.076	0.129	0.034
40	**Test**														
41	Trigger Pull 1	3.722	3.480	3.638	3.455	3.485	3.481	3.479	3.553	3.444	3.308	3.645	3.463	3.513	3.593
42	Trigger Pull 2	3.652	3.554	3.649	3.442	3.410	3.471	3.481	3.580	3.410	3.384	3.574	3.474	3.515	3.436
43	Trigger Pull 3	3.647	3.577	3.648	3.407	3.408	3.545	3.485	3.522	3.390	3.318	3.589	3.465	3.494	3.555
44	Trigger Pull 4	3.566	3.492	3.642	3.392	3.396	3.516	3.401	3.466	3.412	3.358	3.526	3.529	3.547	3.638

	P	Q	R	S	T	U
1	**A15**	**A16**	**A17**	**A18**	**A19**	**A20**
2	0.0206	0.0201	0.0201	0.0201	0.0205	0.0202
3	0.0206	0.0199	0.0200	0.0203	0.0207	0.0201
4	0.0207	0.0197	0.0200	0.0201	0.0204	0.0201
5	0.0206	0.0199	0.0200	0.0202	0.0205	0.0201
6	0.0001	0.0002	0.0001	0.0001	0.0002	0.0001
7						
8	0.004	0.003	0.003	0.006	0.003	0.003
9	0.004	0.003	0.003	0.006	0.003	0.003
10	0.004	0.003	0.003	0.006	0.003	0.003
11	0.0040	0.0030	0.0030	0.0060	0.0030	0.0030
12	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	0.038	0.036	0.037	0.036	0.036	0.038
14						
15	2.488	2.520	2.569	2.483	2.524	2.597
16	2.445	2.469	2.580	2.506	2.510	2.570
17	2.511	2.432	2.657	2.521	2.535	2.626
18	2.560	2.515	2.541	2.475	2.575	2.593
19	2.496	2.542	2.605	2.541	2.528	2.612
20	2.578	2.572	2.614	2.526	2.541	2.598
21	2.468	2.549	2.550	2.549	2.623	2.587
22	2.610	2.575	2.536	2.516	2.628	2.621
23	2.450	2.518	2.553	2.559	2.544	2.591
24	2.544	2.485	2.573	2.436	2.559	2.679
25	2.515	2.518	2.578	2.511	2.557	2.607
26	0.056	0.045	0.038	0.038	0.041	0.030
27						
28	5.820	5.517	5.991	5.699	5.632	5.809
29	5.782	5.514	6.026	5.886	5.620	5.801
30	5.892	5.537	6.034	5.671	5.685	5.833
31	5.855	5.499	6.038	5.661	5.691	5.885
32	5.620	5.532	6.028	5.515	5.596	5.840
33	5.887	5.531	6.038	5.594	5.712	5.772
34	5.836	5.528	6.011	5.503	5.662	5.782
35	5.793	5.508	6.004	5.420	5.615	5.847
36	5.529	5.506	5.977	6.054	5.599	5.827
37	5.499	5.52	6.004	5.496	5.667	5.866
38	5.751	5.519	6.015	5.650	5.648	5.826
39	0.147	0.013	0.021	0.195	0.041	0.036
40						
41	3.527	3.023	3.712	3.437	3.693	3.401
42	3.550	3.080	3.678	3.490	3.736	3.455
43	3.610	3.069	3.695	3.488	3.709	3.444
44	3.570	3.100	3.709	3.404	3.747	3.428

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
45	Trigger Pull 5	3.484	3.455	3.695	3.390	3.428	3.512	3.477	3.525	3.434	3.347	3.498	3.493	3.467	3.620
46	Trigger Pull 6	3.597	3.485	3.577	3.464	3.382	3.565	3.423	3.536	3.480	3.416	3.557	3.531	3.488	3.553
47	Trigger Pull 7	3.618	3.519	3.640	3.378	3.322	3.462	3.555	3.485	3.423	3.256	3.499	3.562	3.536	3.551
48	Trigger Pull 8	3.601	3.511	3.636	3.374	3.345	3.404	3.480	3.572	3.482	3.374	3.467	3.489	3.497	3.518
49	Trigger Pull 9	3.601	3.575	3.669	3.480	3.346	3.520	3.447	3.506	3.537	3.336	3.503	3.412	3.621	3.618
50	Trigger Pull 10	3.577	3.607	3.717	3.477	3.256	3.445	3.453	3.510	3.436	3.324	3.510	3.569	3.580	3.545
51	Average:	3.607	3.526	3.651	3.426	3.378	3.492	3.468	3.526	3.445	3.342	3.537	3.499	3.526	3.563
52	SD:	0.062	0.050	0.038	0.042	0.064	0.049	0.042	0.036	0.044	0.045	0.054	0.049	0.047	0.059
53	Sear Lift				0.012	0.010				0.011	0.010				0.011

	P	Q	R	S	T	U
45	3.550	3.084	3.701	3.473	3.710	3.452
46	3.595	3.042	3.797	3.373	3.670	3.388
47	3.589	3.020	3.718	3.460	3.682	3.429
48	3.601	3.033	3.785	3.469	3.689	3.411
49	3.581	3.023	3.669	3.418	3.687	3.444
50	3.630	3.074	3.71	3.560	3.642	3.385
51	3.580	3.055	3.717	3.457	3.697	3.424
52	0.031	0.030	0.042	0.053	0.031	0.026
53	0.010				0.010	

Cell: Q1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: R1
Comment: metrology1:
for dry cycle on receiver S7607332

Cell: S1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: T1
Comment: metrology1:
replaced XMP#12 in gun A12 at 500 rds when trigger broke. Gun A13 replaced gun A12 for endurance testing to 1000 rounds.

Cell: U1
Comment: metrology1:
for dry cycle on receiver S7607332 after XMP#17 trigger broke at 5000 cycles

	A	B	C	D	E	F	G	H	I	J
1		**A1**	**A2**	**A3**	**A6**	**A7**	**A8**	**A11**	**A12**	**A13**
2	Engagement 1	0.0200	0.0211	0.0215	0.0204	0.0208	0.0210	0.0216	0.0226	0.0252
3	Engagement 2	0.0201	0.0213	0.0215	0.0204	0.0210	0.0210	0.0216	0.0227	0.0249
4	Engagement 3	0.0201	0.0212	0.0215	0.0206	0.0209	0.0210	0.0216	0.0225	0.0250
5	Average:	0.0201	0.0212	0.0215	0.0205	0.0209	0.0210	0.0216	0.0226	0.0250
6	SD:	0.0001	0.0001	0.0000	0.0001	0.0001	0.0000	0.0000	0.0001	0.0002
7										
8	TMIS 1	0.003	0.007	0.005	0.003	0.004	0.003	0.005	0.004	0.010
9	TMIS 2	0.004	0.006	0.005	0.003	0.004	0.003	0.005	0.004	0.011
10	TMIS 3	0.003	0.006	0.005	0.003	0.004	0.003	0.004	0.004	0.010
11	Average:	0.0033	0.0063	0.0050	0.0030	0.0040	0.0030	0.0047	0.0040	0.0103
12	SD:	0.0006	0.0006	0.0000	0.0000	0.0000	0.0000	0.0006	0.0000	0.0006
13	**Test**									
14	Trigger Pull 1	3.835	3.453	3.809	3.882	3.731	4.019	3.780		3.586
15	Trigger Pull 2	3.630	3.412	3.777	3.942	3.724	4.005	3.926		3.447
16	Trigger Pull 3	3.645	3.424	3.754	3.961	3.763	4.016	3.821		3.490
17	Trigger Pull 4	3.578	3.543	3.715	3.966	3.685	4.063	3.902		3.574
18	Trigger Pull 5	3.772	3.541	3.766	3.917	3.777	3.949	3.717		3.548
19	Trigger Pull 6	3.540	3.509	3.780	3.860	3.730	4.010	3.904		3.483
20	Trigger Pull 7	3.765	3.462	3.774	3.874	3.755	4.036	3.923		3.601
21	Trigger Pull 8	3.727	3.479	3.754	3.778	3.745	4.031	3.780		3.555
22	Trigger Pull 9	3.794	3.287	3.756	3.888	3.806	3.997	3.896		3.520
23	Trigger Pull 10	3.699	3.363	3.697	3.799	3.843	3.960	3.920		3.425
24	Average:	3.699	3.447	3.758	3.887	3.756	4.009	3.857		3.523
25	SD:	0.098	0.080	0.032	0.063	0.045	0.034	0.076		0.060
26	Sear Lift			0.010			0.011			

Cell: I1
Comment: metrology1:
Trigger accidentally broke after measuring engagement and TMIS, but before trigger pull. Trigger assembly 19 replaced trigger assembly 12 on this gun.

Cell: I14
Comment: metrology1:
Trigger accidentally broke after measuring engagement and TMIS, but before trigger pull. Trigger assembly 19 replaced trigger assembly 12 on this gun.

	A	B	C	D	E	F	G	H	I	J	K
1		**A1**	**A2**	**A6**	**A7**	**A11**	**A13**	A16	A17	A18	A20
2	Engagement 1	0.0197	0.0214	0.0205	0.0201	0.0213	0.0252	0.0219	0.0206	0.0219	0.0207
3	Engagement 2	0.0196	0.0213	0.0203	0.0203	0.0215	0.0252	0.0216	0.0205	0.0219	0.0207
4	Engagement 3	0.0196	0.0214	0.0204	0.0203	0.0214	0.0251	0.0216	0.0202	0.0202	0.0210
5	Average:	0.0196	0.0214	0.0204	0.0202	0.0214	0.0252	0.0217	0.0204	0.0213	0.0208
6	SD:	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0010	0.0002
7											
8	TMIS 1	0.003	0.006	0.003	0.004	0.005	0.011	0.005	0.003	0.006	0.004
9	TMIS 2	0.003	0.006	0.003	0.004	0.005	0.011	0.005	0.003	0.006	0.003
10	TMIS 3	0.003	0.006	0.003	0.004	0.004	0.011	0.004	0.003	0.007	0.004
11	Average:	0.0030	0.0060	0.0030	0.0040	0.0047	0.0110	0.0047	0.0030	0.0063	0.0000
12	SD:	0.0000	0.0000	0.0000	0.0000	0.0006	0.0000	0.0006	0.0000	0.0006	0.0007
13	**Test**										
14	Trigger Pull 1	4.255	3.318	4.032	3.858	3.989	3.683	3.513	3.798	3.89	3.422
15	Trigger Pull 2	4.234	3.288	3.965	3.805	4.037	3.845	3.833	4.009	3.929	3.239
16	Trigger Pull 3	4.158	3.248	3.933	3.645	3.966	3.669	3.666	3.84	3.803	3.254
17	Trigger Pull 4	4.172	3.385	3.989	3.863	4.142	3.750	3.578	3.793	3.817	3.331
18	Trigger Pull 5	4.196	3.383	4.044	3.737	4.077	3.622	3.667	3.708	3.749	3.264
19	Trigger Pull 6	4.199	3.379	3.956	3.717	4.075	3.611	3.713	3.866	3.867	3.286
20	Trigger Pull 7	4.164	3.338	3.944	3.785	4.039	3.569	3.704	3.781	3.853	3.24
21	Trigger Pull 8	4.213	3.364	3.917	3.749	3.985	3.648	3.689	3.759	3.804	3.242
22	Trigger Pull 9	4.121	3.328	3.843	3.636	4.048	3.597	3.635	3.768	3.828	3.22
23	Trigger Pull 10	4.175	3.295	3.907	3.871	3.989	3.691	3.626	3.745	3.815	3.235
24	Average:	4.189	3.333	3.953	3.767	4.035	3.669	3.662	3.807	3.836	3.273
25	SD:	0.039	0.046	0.060	0.086	0.054	0.081	0.085	0.084	0.051	0.061
26	Sear Lift		0.012		0.012		0.010				

Cell: H1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: I1
Comment: metrology1:
for dry cycle on receiver S7607332

Cell: J1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: K1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		**A1**	**A6**	**A11**
2	Engagement 1	0.0197	0.0203	0.0218
3	Engagement 2	0.0196	0.0204	0.0216
4	Engagement 3	0.0195	0.0203	0.0215
5	Average:	0.0196	0.0203	0.0216
6	SD:	0.0001	0.0001	0.0002
7				
8	TMIS 1	0.004	0.003	0.005
9	TMIS 2	0.004	0.003	0.005
10	TMIS 3	0.004	0.003	0.005
11	Average:	0.0040	0.0030	0.0050
12	SD:	0.0000	0.0000	0.0000
13	**Test**			
14	Trigger Pull 1	4.346	3.985	3.736
15	Trigger Pull 2	4.364	4.061	3.663
16	Trigger Pull 3	4.276	4.069	3.820
17	Trigger Pull 4	4.384	3.923	3.828
18	Trigger Pull 5	4.295	3.882	3.864
19	Trigger Pull 6	4.218	4.01	3.775
20	Trigger Pull 7	4.263	3.934	3.846
21	Trigger Pull 8	4.279	3.858	3.716
22	Trigger Pull 9	4.249	3.88	3.676
23	Trigger Pull 10	4.296	3.949	3.684
24	Average:	4.297	3.955	3.761
25	SD:	0.053	0.075	0.076

	A	B	C	D	E	F	G	H	I
1		**A1**	**A6**	**A11**	A16	A17	A18	A20	**A20 unable to colect data due to computer malfunction**
2	Engagement 1	0.0205	0.0204	0.0215	0.0202	0.0192	0.0203		
3	Engagement 2	0.0203	0.0204	0.0214	0.0204	0.0199	0.0195		
4	Engagement 3	0.0202	0.0203	0.0214	0.0208	0.0197	0.0193		
5	Average:	0.0203	0.0204	0.0214	0.0205	0.0196	0.0197	#DIV/0!	
6	SD:	0.0002	0.0001	0.0001	0.0003	0.0004	0.0005	#DIV/0!	
7									
8	TMIS 1	0.004	0.003	0.006	0.005	0.005	0.007		
9	TMIS 2	0.004	0.003	0.005	0.004	0.004	0.007		
10	TMIS 3	0.004	0.003	0.006	0.004	0.004	0.007		
11	Average:	0.0040	0.0030	0.0057	0.0043	0.0043	0.0070	#DIV/0!	
12	SD:	0.0000	0.0000	0.0006	0.0006	0.0006	0.0000	#DIV/0!	
13	**Test**								
14	Trigger Pull 1	3.923	4.058	3.478	3.538	3.635	3.653		
15	Trigger Pull 2	4.024	4.115	3.464	3.715	3.52	3.661		
16	Trigger Pull 3	4.127	3.968	3.469	3.631	3.541	3.619		
17	Trigger Pull 4	4.072	4.088	3.420	3.556	3.531	3.673		
18	Trigger Pull 5	4.069	3.989	3.515	3.601	3.418	3.626		
19	Trigger Pull 6	4.107	4.045	3.472	3.447	3.48	3.584		
20	Trigger Pull 7	3.927	4.047	3.493	3.66	3.434	3.597		
21	Trigger Pull 8	4.17	4.043	3.578	3.523	3.571	3.639		
22	Trigger Pull 9	3.949	4.076	3.467	3.595	3.569	3.631		
23	Trigger Pull 10	3.986	4.112	3.504	3.57	3.501	3.656		
24	Average:	4.035	4.054	3.486	3.584	3.520	3.634	#DIV/0!	
25	SD:	0.087	0.048	0.041	0.075	0.065	0.028	#DIV/0!	
26	Sear Lift	0.010	0.011	0.012					

Cell: E1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: F1
Comment: metrology1:
for dry cycle on receiver S7607332

Cell: G1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: H1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D	E	F
1		A16	A17	A18	A20	**A20 unable to collect data due to computer malfunction**
2	Engagement 1	0.0221	0.0194	0.0220		
3	Engagement 2	0.0219	0.0195	0.0220		
4	Engagement 3	0.0220	0.0200	0.0219		
5	Average:	0.0220	0.0196	0.0220	#DIV/0!	
6	SD:	0.0001	0.0003	0.0001	#DIV/0!	
7						
8	TMIS 1	0.004	0.004	0.007		
9	TMIS 2	0.003	0.004	0.006		
10	TMIS 3	0.003	0.004	0.007		
11	Average:	0.0033	0.0040	0.0067	#DIV/0!	
12	SD:	0.0006	0.0000	0.0006	#DIV/0!	
13	**Test**					
14	Trigger Pull 1	3.304	3.173	3.574		
15	Trigger Pull 2	3.206	3.057	3.657		
16	Trigger Pull 3	3.196	3.097	3.588		
17	Trigger Pull 4	3.239	3.045	3.552		
18	Trigger Pull 5	3.245	3.159	3.570		
19	Trigger Pull 6	3.307	3.107	3.648		
20	Trigger Pull 7	3.319	3.146	3.648		
21	Trigger Pull 8	3.314	3.282	3.627		
22	Trigger Pull 9	3.186	3.147	3.642		
23	Trigger Pull 10	3.291	3.396	3.682		
24	Average:	3.261	3.161	3.619	#DIV/0!	
25	SD:	0.052	0.106	0.044	#DIV/0!	

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7607332

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: E1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D	E
1		A16	A17	A18	A20
2	Engagement 1	0.0220	0.0204	0.0218	0.0212
3	Engagement 2	0.0221	0.0205	0.0219	0.0212
4	Engagement 3	0.0222	0.0204	0.0218	0.0211
5	Average:	0.0221	0.0204	0.0218	0.0212
6	SD:	0.0001	0.0001	0.0001	0.0001
7					
8	TMIS 1	0.004	0.005	0.004	0.005
9	TMIS 2	0.004	0.005	0.004	0.004
10	TMIS 3	0.004	0.005	0.004	0.004
11	Average:	0.0040	0.0050	0.0040	0.0043
12	SD:	0.0000	0.0000	0.0000	0.0006
13	**Test**				
14	Trigger Pull 1	3.227	3.453	3.682	3.4
15	Trigger Pull 2	3.228	3.439	3.703	3.376
16	Trigger Pull 3	3.134	3.328	3.561	3.22
17	Trigger Pull 4	3.231	3.346	3.578	3.403
18	Trigger Pull 5	3.167	3.353	3.603	3.316
19	Trigger Pull 6	3.139	3.358	3.681	3.248
20	Trigger Pull 7	3.188	3.376	3.576	3.381
21	Trigger Pull 8	3.185	3.433	3.669	3.296
22	Trigger Pull 9	3.228	3.445	3.532	3.331
23	Trigger Pull 10	3.191	3.426	3.612	3.226
24	Average:	3.192	3.396	3.620	3.320
25	SD:	0.037	0.048	0.060	0.071

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7607332

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: E1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		A16	A18	A20
2	Engagement 1	0.0219	0.0217	0.0216
3	Engagement 2	0.0216	0.0220	0.0213
4	Engagement 3	0.0214	0.0220	0.0212
5	Average:	0.0216	0.0219	0.0214
6	SD:	0.0003	0.0002	0.0002
7				
8	TMIS 1	0.003	0.008	0.004
9	TMIS 2	0.003	0.008	0.004
10	TMIS 3	0.003	0.009	0.004
11	Average:	0.0030	0.0083	0.0040
12	SD:	0.0000	0.0006	0.0000
13	**Test**			
14	Trigger Pull 1	3.189	3.507	3.12
15	Trigger Pull 2	3.185	3.539	3.186
16	Trigger Pull 3	3.255	3.4	3.133
17	Trigger Pull 4	3.278	3.401	3.196
18	Trigger Pull 5	3.235	3.486	3.218
19	Trigger Pull 6	3.264	3.409	3.164
20	Trigger Pull 7	3.278	3.425	3.174
21	Trigger Pull 8	3.384	3.454	3.007
22	Trigger Pull 9	3.421	3.435	3.062
23	Trigger Pull 10	3.209	3.402	3.083
24	Average:	3.270	3.446	3.134
25	SD:	0.078	0.049	0.067

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		A16	A18	A20
2	Engagement 1	0.0219	0.0222	0.0211
3	Engagement 2	0.0218	0.0222	0.0211
4	Engagement 3	0.0217	0.0222	0.0210
5	Average:	0.0218	0.0222	0.0211
6	SD:	0.0001	0.0000	0.0001
7				
8	TMIS 1	0.005	0.009	0.005
9	TMIS 2	0.004	0.009	0.004
10	TMIS 3	0.004	0.009	0.005
11	Average:	0.0043	0.0090	0.0047
12	SD:	0.0006	0.0000	0.0006
13	**Test**			
14	Trigger Pull 1	3.141	3.608	3.236
15	Trigger Pull 2	2.896	3.555	3.246
16	Trigger Pull 3	2.845	3.553	3.391
17	Trigger Pull 4	2.948	3.558	3.185
18	Trigger Pull 5	2.95	3.56	3.241
19	Trigger Pull 6	2.92	3.572	3.223
20	Trigger Pull 7	2.899	3.615	3.269
21	Trigger Pull 8	2.953	3.585	3.241
22	Trigger Pull 9	2.903	3.573	3.212
23	Trigger Pull 10	2.874	3.559	3.345
24	Average:	2.933	3.574	3.259
25	SD:	0.081	0.022	0.063

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		A16	A18	A20
2	Engagement 1	0.0214	0.0223	0.0221
3	Engagement 2	0.0213	0.0221	0.0202
4	Engagement 3	0.0213	0.0219	0.0222
5	Average:	0.0213	0.0221	0.0215
6	SD:	0.0001	0.0002	0.0011
7				
8	TMIS 1	0.004	0.009	0.004
9	TMIS 2	0.004	0.009	0.004
10	TMIS 3	0.004	0.010	0.005
11	Average:	0.0040	0.0093	0.0043
12	SD:	0.0000	0.0006	0.0006
13	**Test**			
14	Trigger Pull 1	2.988	3.414	3.092
15	Trigger Pull 2	2.999	3.408	3.197
16	Trigger Pull 3	2.871	3.353	3.134
17	Trigger Pull 4	2.838	3.351	3.124
18	Trigger Pull 5	2.838	3.439	3.164
19	Trigger Pull 6	2.951	3.442	3.159
20	Trigger Pull 7	2.999	3.369	3.189
21	Trigger Pull 8	3.004	3.389	3.142
22	Trigger Pull 9	2.926	3.372	3.166
23	Trigger Pull 10	2.973	3.471	3.149
24	Average:	2.939	3.401	3.152
25	SD:	0.067	0.041	0.031

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		A16	A18	A20
2	Engagement 1	0.0215	0.0219	0.0219
3	Engagement 2	0.0212	0.0218	0.0219
4	Engagement 3	0.0213	0.0217	0.0217
5	Average:	0.0213	0.0218	0.0218
6	SD:	0.0002	0.0001	0.0001
7				
8	TMIS 1	0.004	0.009	0.005
9	TMIS 2	0.004	0.008	0.004
10	TMIS 3	0.004	0.009	0.004
11	Average:	0.0040	0.0087	0.0043
12	SD:	0.0000	0.0006	0.0006
13	**Test**			
14	Trigger Pull 1	3.101	3.524	3.279
15	Trigger Pull 2	3.023	3.481	3.218
16	Trigger Pull 3	2.953	3.477	3.200
17	Trigger Pull 4	3.009	3.446	3.254
18	Trigger Pull 5	2.982	3.591	3.231
19	Trigger Pull 6	3.009	3.463	3.253
20	Trigger Pull 7	2.980	3.309	3.337
21	Trigger Pull 8	2.985	3.493	3.265
22	Trigger Pull 9	3.020	3.500	3.296
23	Trigger Pull 10	2.988	3.436	3.297
24	Average:	3.005	3.472	3.263
25	SD:	0.040	0.072	0.041

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		A16	A18	A20
2	Engagement 1	0.0219	0.0220	0.0219
3	Engagement 2	0.0219	0.0222	0.0217
4	Engagement 3	0.0218	0.0220	0.0216
5	Average:	0.0219	0.0221	0.0217
6	SD:	0.0001	0.0001	0.0002
7				
8	TMIS 1	0.005	0.009	0.005
9	TMIS 2	0.004	0.009	0.005
10	TMIS 3	0.004	0.009	0.005
11	Average:	0.0043	0.0090	0.0050
12	SD:	0.0006	0.0000	0.0000
13	**Test**			
14	Trigger Pull 1	3.32	3.487	3.324
15	Trigger Pull 2	3.324	3.442	3.399
16	Trigger Pull 3	3.358	3.413	3.449
17	Trigger Pull 4	3.204	3.439	3.427
18	Trigger Pull 5	3.255	3.414	3.602
19	Trigger Pull 6	3.166	3.414	3.453
20	Trigger Pull 7	3.258	3.387	3.466
21	Trigger Pull 8	3.308	3.447	3.38
22	Trigger Pull 9	3.253	3.479	3.629
23	Trigger Pull 10	3.295	3.484	3.68
24	Average:	3.274	3.441	3.481
25	SD:	0.059	0.034	0.117

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		A16	A18	A20
2	Engagement 1	0.0215	0.0213	0.0217
3	Engagement 2	0.0213	0.0212	0.0216
4	Engagement 3	0.0214	0.0215	0.0217
5	Average:	0.0214	0.0213	0.0217
6	SD:	0.0001	0.0002	0.0001
7				
8	TMIS 1	0.005	0.005	0.005
9	TMIS 2	0.004	0.004	0.006
10	TMIS 3	0.005	0.004	0.005
11	Average:	0.0047	0.0043	0.0055
12	SD:	0.0006	0.0006	0.0005
13	**Test**			
14	Trigger Pull 1	3.344	3.542	3.502
15	Trigger Pull 2	3.255	3.598	3.53
16	Trigger Pull 3	3.286	3.56	3.433
17	Trigger Pull 4	3.251	3.561	3.499
18	Trigger Pull 5	3.196	3.373	3.584
19	Trigger Pull 6	3.214	3.509	3.516
20	Trigger Pull 7	3.186	3.485	3.504
21	Trigger Pull 8	3.185	3.511	3.61
22	Trigger Pull 9	3.207	3.453	3.493
23	Trigger Pull 10	3.133	3.42	3.59
24	Average:	3.226	3.501	3.526
25	SD:	0.060	0.070	0.054

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1	Part Name:	TRIGGER PULL ADJUSTMENT SCREW		
2	Drawing Num:	301429		NOTE- Dimension identifiers will be provided on the prints supplied by engineering & the CAD group.
3	TLW Number:	241460		
4	Revision Level:	A		INSTRUCTIONS:
5	Vendor:	CAMPBELL'S MACHINE		1. DO NOT STAMP PARTS WITH AN I.D, NUMBER.
6	Requisition #:			2. SEPARATE NON-CONFORMING PARTS.
7	Material:	304 SS		3. ENTER FEATURE DESCRIPTIONS WHEN POSSIBLE. (OPTIONAL)
8	Hardness:			4. WHEN COMPLETE, RETURN ALL PARTS TO ENGINEER IN ORIGINAL SHIPPING CARTON (IF POSSIBL
9	Metallurgist:			
10	Engineer:	JIM RONKAINEN		INSPECTOR NOTES: Parts were not individually identified due to their small size. Any non-conforming parts wou
11	Inspected by:	RONKAINEN		
12	Date:	11/10/2006		
13	Reviewed by:	JR		
14	Date:	11/22/2006		
15				
16				
17				
18				
19	**identifier**	**feature description**	**DIM**	**plus**
20	A	THREAD	**5-40 UNC**	
21	B	HEX KEY SOCKET DEPTH	**0.080 MIN**	
22	C	HEX KEY SOCKET SIZE	**1/16**	
23	D	DIAMETER	**0.124**	0.0020
24	E	DIAMETER	**0.0930**	0.0050
25	F	DISTANCE	**0.250**	0.0100
26	G	ANGLE	**90.000**	0.5000
27	H	GROOVE WIDTH	**0.025**	0.0050
28	I	GROOVE LOCATON	**0.045**	0.0050
29	J	CHAMFER	**0.010**	0.0000
30				
31		**OHL**	= over high limit	
32		**ULL**	= under low limit	
33				
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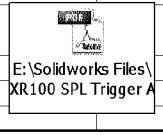

	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
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7																
8	LE) AND DRAWING WITH IDENTIFIERS.															
9																
10	ld have been separated (all parts met specification).															
11																
12																
13																
14																
15																
16																
17																
18																
19	**minus**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
20		OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
21		0.0820	0.0830	0.0840	0.0850	0.0830	0.0850	0.0820	0.0830	0.0830	0.0830	0.0820	0.0830	0.0820	0.0830	0.0820
22		OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
23	0.0020	0.1254	0.1254	0.1256	0.1255	0.1258	0.1254	0.1256	0.1257	0.1255	0.1256	0.1255	0.1256	0.1257	0.1257	0.1256
24	0.0050	0.0936	0.0943	0.0942	0.0936	0.0938	0.0936	0.0934	0.0938	0.0938	0.0947	0.0937	0.0938	0.0937	0.0939	0.0941
25	0.0100	0.2494	0.2500	0.2496	0.2492	0.2495	0.2497	0.2486	0.2500	0.2481	0.2497	0.2496	0.2495	0.2502	0.2502	0.2506
26	0.5000	90.0000	90.0000	90.0000	90.0000	90.0000	90.0000	90.0000	90.0000	90.0000	90.0000	90.0000	90.0000	90.0000	90.0000	90.0000
27	0.0050	0.0265	0.0277	0.0247	0.0231	0.0234	0.0251	0.0235	0.0230	0.0255	0.0264	0.0236	0.0228	0.0227	0.0228	0.0265
28	0.0050	0.0450	0.0455	0.0453	0.0449	0.0458	0.0449	0.0440	0.0444	0.0451	0.0451	0.0451	0.0452	0.0450	0.0453	0.0442
29	0.0100	0.0064	0.0069	0.0068	0.0067	0.0059	0.0069	0.0066	0.0065	0.0059	0.0058	0.0063	0.0060	0.0060	0.0058	0.0066
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19	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**AVG**	**STDEV**	**Method**		
20	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			5-40 NUT		
21	0.0830	0.0830	0.0830	0.0820	0.0830	0.0820	0.0830	0.0830	0.0800	0.0830	0.0828	0.0010	Dial & Fixture		
22	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			1/16 HEX KEY		
23	0.1255	0.1255	0.1257	0.1257	0.1255	0.1257	0.1254	0.1256	0.1256	0.1257	0.1256	0.0001	MIC		
24	0.0966	0.0935	0.0937	0.0942	0.0939	0.0950	0.0938	0.0934	0.0935	0.0936	0.0940	0.0007	MV		
25	0.2500	0.2492	0.2501	0.2483	0.2493	0.2496	0.2505	0.2492	0.2491	0.2497	0.2496	0.0006	MIC		
26	90.0000	90.0000	90.0000	90.0000	90.0000	90.0000	90.0000	90.0000	90.0000	90.0000	90.0000	0.0000	MV		
27	0.0259	0.0233	0.0230	0.0254	0.0235	0.0220	0.0217	0.0237	0.0239	0.0261	0.0242	0.0016	MV		
28	0.0448	0.0449	0.0449	0.0454	0.0452	0.0442	0.0458	0.0452	0.0445	0.0458	0.0450	0.0005	MV		
29	0.0068	0.0068	0.0071	0.0060	0.0079	0.0072	0.0063	0.0062	0.0054	0.0067	0.0065	0.0005	MV		
30															
31															
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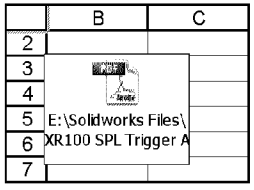
B
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XR100 SPL Trigger A

THIS DRAWING OR INFORMATION IS PROPRIETARY INFORMATION TO THE REMINGTON ARMS COMPANY, INC.

DO NOT SCALE THIS DRAWING: WORK TO FIGURES UNLESS OTHERWISE NOTED.
TOLERANCES ON DECIMAL DIMENSIONS ARE:
1 PLACE (0.1) - TOLERANCE ± 0.015
2 PLACE (0.01) - TOLERANCE ± 0.010
3 PLACE (0.001) - TOLERANCE ± 0.005
& ON FRACTIONAL DIMENSIONS ± 1/64
& ON ANGULAR DIMENSIONS ± 0.5°
FINISHES ARE DESIGNATED BY ROOT MEAN SQUARE (R.M.S.) MICRO-INCH ROUGHNESS VALUES AND ARE THE MAXIMUM ROUGHNESS ACCEPTABLE. UNLESS OTHERWISE SPECIFIED,

FINISH ROUGHNESS TO BE 125 OR BETTER.
DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5-1994.

MATERIAL AND HEAT TREAT

MATERIAL : ASME B18.3 STAINLESS

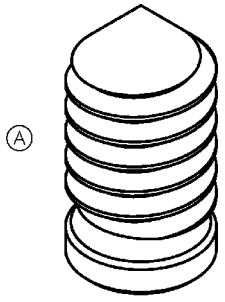
HEAT TREAT : VENDOR'S SPEC

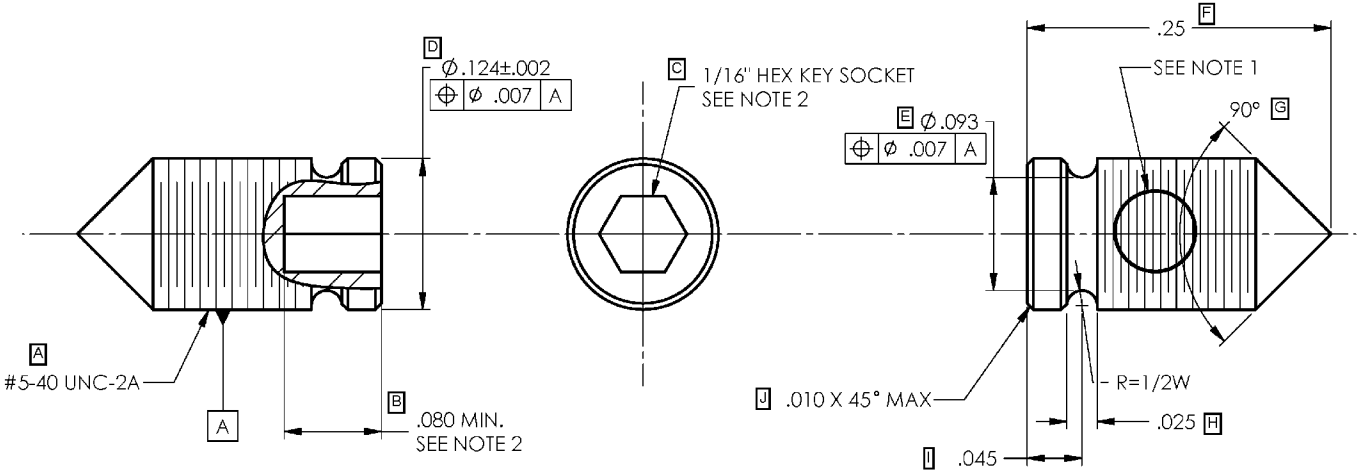
HARDNESS : HRb 80-100

FINISH : NONE

~~HEAT TREAT AND FINISH TO BE DONE BY REMINGTON~~

ALTERATIONS					
ALT.	ZONE	WAS	REF.	BY	DATE
A	E1, E2	CORRECTED THREAD IN VIEW		JWR	10-17-06





NOTES:
1. NYLON LOCKING ELEMENT OR ENGINEERING APPROVED EQUIVALENT REQUIRED ON THREADS AS INDICATED.
2. HEX KEY SOCKET TO CONFORM TO ASME B18.3-1998.

MODEL	PART NO.	PART USE

DES. BY DATE	DRN. BY DATE	CHK. BY DATE
JWR 8-30-06	JWR 8-31-06	

TITLE: TRIGGER PULL ADJUSTMENT SCREW

SHEET SIZE	NUMBER	SCALE	SUPERSEDES	REFERENCE
B	301429	10X		

REMINGTON ARMS CO., INC.
Madison, NC 27025

SolidWorks Filename: 301429 - Trigger Pull Adjustment Screw

NOT RELEASED FOR PRODUCTION

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

R 2193573

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TOLERANCES ON DECIMAL DIMENSIONS ARE:
1 PLACE (0.1) - TOLERANCE ± 0.015
2 PLACE (0.01) - TOLERANCE ± 0.010
3 PLACE (0.001) - TOLERANCE ± 0.005
& ON FRACTIONAL DIMENSIONS ± 1/64
& ON ANGULAR DIMENSIONS ± 0.5°
FINISHES ARE DESIGNATED BY ROOT MEAN SQUARE (R.M.S.) MICRO-INCH ROUGHNESS VALUES AND ARE THE MAXIMUM ROUGHNESS ACCEPTABLE. UNLESS OTHERWISE SPECIFIED,

FINISH ROUGHNESS TO BE 125 OR BETTER.
DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5-1994.

MATERIAL AND HEAT TREAT

MATERIAL : ASME B18.3 STAINLESS

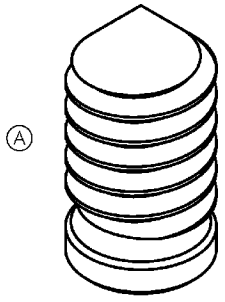
HEAT TREAT : VENDOR'S SPEC

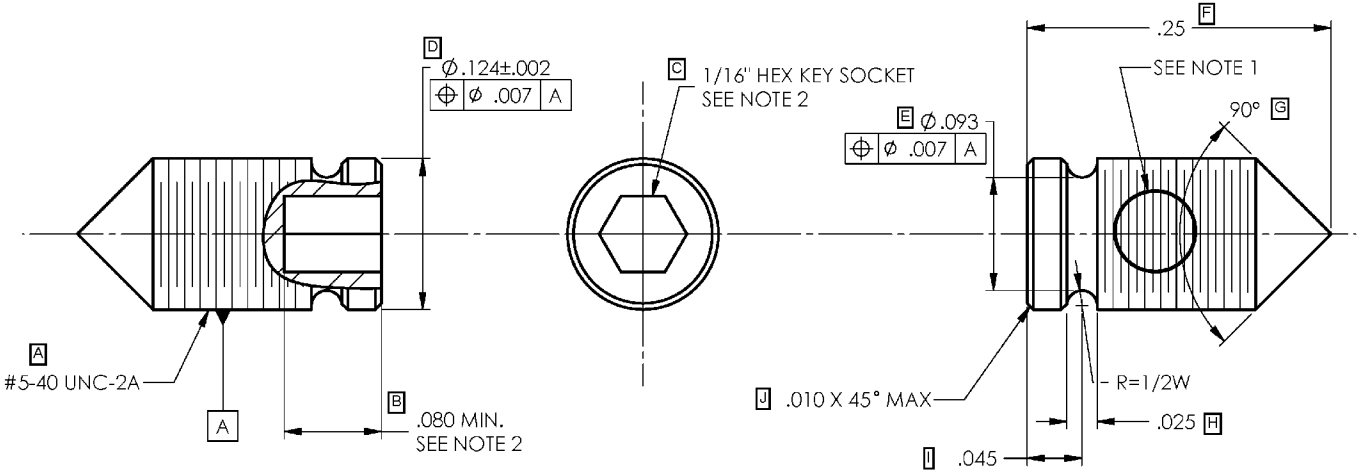
HARDNESS : HRb 80-100

FINISH : NONE

~~HEAT TREAT AND FINISH TO BE DONE BY REMINGTON~~

ALTERATIONS					
ALT.	ZONE	WAS	REF.	BY	DATE
A	E1, E2	CORRECTED THREAD IN VIEW		JWR	10-17-06





NOTES:
1. NYLON LOCKING ELEMENT OR ENGINEERING APPROVED EQUIVALENT REQUIRED ON THREADS AS INDICATED.
2. HEX KEY SOCKET TO CONFORM TO ASME B18.3-1998.

SolidWorks Filename: 301429 - Trigger Pull Adjustment Screw

NOT RELEASED FOR PRODUCTION

MODEL	PART NO.	PART USE

DES. BY DATE	DRN. BY DATE	CHK. BY DATE
JWR 8-30-06	JWR 8-31-06	

TITLE: TRIGGER PULL ADJUSTMENT SCREW

SHEET SIZE	NUMBER	SCALE	SUPERSEDES	REFERENCE
B	301429	10X		

REMINGTON ARMS CO., INC.
Madison, NC 27025

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2		**Feature**	**Method**	**Nominal**	**Plus**	**Minus**	**1**	**2**	**3**	**4**	**5**	**6**
3	**A**	FL	MicroVu	0.407	0.005	0.005	0.4054	0.4043	0.4077	0.4076	0.4087	0.4043
4	**B**	L1@0.381	Chatillon 10# force gage & test stand	1.670	0.300	0.300	1.535	**1.215**	1.715	1.725	1.820	**1.310**
5	**C**	L2@0.354	Chatillon 10# force gage & test stand	3.960	0.500	0.500	3.785	3.480	3.980	3.935	4.055	3.540
6												
7				**ULL**	= over high limit							
8				**OHL**	= under low limit							
9												
10												
11												
12												
13												

	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1	↓Spring from Trigger Assembly Number↓														
2	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**
3	0.4046	0.4041	0.4062	0.4037	0.4084	0.4076	0.4069	0.4062	0.4118	0.4081	0.4045	0.4083	0.4033	0.4066	0.4084
4	**1.305**	1.375	1.550	**1.355**	1.790	1.715	1.720	1.965	1.850	1.805	1.675	1.925	1.570	1.815	1.880
5	**3.450**	3.640	4.150	3.530	4.040	4.070	4.105	4.245	4.080	4.070	3.975	4.180	3.850	4.060	4.140
6															
7															
8															
9															
10															
11	E:\Solidworks Files\														
12	XR100 SPL Trigger A														
13															

	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK
1				↓Spring Number↓						
2	**22**	**23**	**24**	**25**	**26**	**Avg**	**SD**	**Max**	**Min**	**Range**
3	0.4081	0.4073	0.4055	0.4078	0.4063	0.4066	0.0020	0.4118	0.4033	0.0085
4	1.815	1.450	1.800	1.795	1.820	1.665	0.213	1.965	1.215	0.750
5	4.030	4.365	4.120	4.025	4.115	3.962	0.245	4.365	3.450	0.915
6										
7										
8										
9										
10										
11										
12										
13										

Cell: B4
Comment: Jim Ronkainen:
L1 was measured at the old displacement (.381) rather than the new displacement listed on the drawing (.375). The force limits shown here are comparable to those shown on the drawing (i.e. yield same spring rate) but the limits on the drawing conform to SMI specifications (minimum of 15% deflection for load measurement).

Cell: D4
Comment: Jim Ronkainen:
The values shown here for L1 vary from what is shown on the drawing due to a difference in the amount of spring compression (drawing has greater compression hence higher loads). The values shown here were the actual measurements and are proportional to the values shown on the drawing.

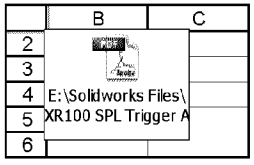
Cell: H4
Comment: Jim Ronkainen:
Even though this spring had the lowest load @L1, the trigger pull for the trigger assembly was easily in spec and the maximum trigger pull force was 5.987 lbs. Use spring as-is.

Cell: L4
Comment: Jim Ronkainen:
Spring just below lower limit. Use springs as-is and note any unusual behavior.

Cell: M4
Comment: Jim Ronkainen:
Spring just below lower limit. Use springs as-is and note any unusual behavior.

Cell: P4
Comment: Jim Ronkainen:
Spring just below lower limit. Use springs as-is and note any unusual behavior.

Cell: M5
Comment: Jim Ronkainen:
Spring just below lower limit. Use springs as-is and note any unusual behavior.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XR100 SPL Trigger A

SHEET SIZE	NUMBER	REMINGTON ARMS CO., INC. Madison, NC 27025		
A	301460	SCALE 5X	SUPERSEDES	REFERENCE

TITLE SPRING, SECONDARY TRIGGER PULL SPRING

DES. BY DATE	DRN. BY DATE	CHK. BY DATE
JWR 8-28-06	JWR 10-5-06	

MODEL	PART NO.	PART USE	
	301460	SECONDARY TRIGGER PULL SPRING	B
			C
			A

THIS DRAWING OR INFORMATION IS PROPRIETARY NFORMATION TO THE REMINGTON ARMS COMPANY, INC.

MATERIAL AND HEAT TREAT

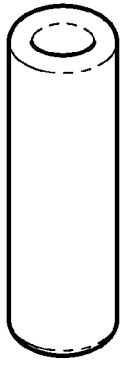
MATERIAL : MUSIC WIRE (ASTM A228)

HEAT TREAT : STRESS RELIEVE

FINISH : OIL

INSPECTION

1. TO WORK FREELY IN A 0.125 DIA. HOLE.
2. TO WORK FREELY ON A 0.050 DIA. PIN.
3. LOAD 1.91 TO 2.51 LB. AT 0.375 (L1)
   LOAD 3.46 TO 4.46 LB. AT 0.354 (L2)
4. SOLID HEIGHT 0.195 MAX. 5. WIND EITHER HAND
6. FREE LENGTH 0.412 MAX. 7. ENDS CLOSED & GROUND
8. CHECK HERE FOR NON-COMMERCIAL TOLERANCES ☐



MANUFACTURE

9. WIRE DIA. 0.025 10. FREE LENGTH 0.402
11. OUTSIDE DIA. 0.120 12. COILS: ACTIVE 7.9
13. CHECK HERE FOR SET REMOVAL ☐ TOTAL 9.9

DESIGN DATA

14. SPRING RATE 83 LB/IN.
15. STATIC STRESS AT SOLID 285990 LB./SQ.IN.
16. DYNAMIC STRESS 0 LB./SQ.IN.
17. TOTAL STRESS AT SOLID 285990 LB./SQ.IN.
18. SOLID LOAD 13.0 LBS.
19. SPRING INDEX 3.800
20. TORSIONAL MODULUS 11.5E6 LB./SQ.IN.
21. CURVATURE CORRECTION FACTOR 1.430 (WAHL)
22. VELOCITY IMPACTING MASS 0 IN./SEC.
23. CRITICAL FREQUENCY 4888 HZ.
24. TOTAL STRESS AS % OF TENSILE STRENGTH 80%
25. ENERGY FROM L1 TO L2 0.047 IN-LBS.

NOT RELEASED FOR PRODUCTION

ALT.	WAS	REF.	BY	DATE
B	REVISED AND REDRAWN		JWR	04-05-07
A	REVISED AND REDRAWN		JWR	10-5-06

ALTERATIONS

THIS SPRING MUST MEET THE REQUIREMENTS IN THE INSPECTION SECTION. FIGURES GIVEN IN THE MANUFACTURE SECTION INDICATE THE PREFERRED SPRING. THE MANUFACTURER MAY, WITH PRIOR APPROVAL, DEVIATE FROM THESE FIGURES. FIGURES IN THE DESIGN DATA SECTION ARE BASED ON THOSE IN THE MANUFACTURE SECTION.

SOLIDWORKS FILE : 301460 - secondary trigger pull spring

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SHEET SIZE	NUMBER	REMINGTON ARMS CO., INC. Madison, NC 27025		
A	301460	SCALE 5X	SUPERSEDES	REFERENCE

TITLE SPRING, SECONDARY TRIGGER PULL SPRING

DES. BY DATE	DRN. BY DATE	CHK. BY DATE
JWR 8-28-06	JWR 10-5-06	

MODEL	PART NO.	PART USE	
	301460	SECONDARY TRIGGER PULL SPRING	B
			C
			A

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MATERIAL AND HEAT TREAT

MATERIAL : MUSIC WIRE (ASTM A228)

HEAT TREAT : STRESS RELIEVE

FINISH : OIL

NOT RELEASED FOR PRODUCTION

INSPECTION

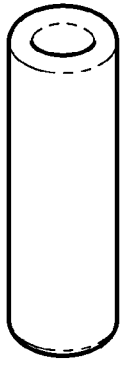
1. TO WORK FREELY IN A 0.125 DIA. HOLE.
2. TO WORK FREELY ON A 0.050 DIA. PIN.
3. LOAD 1.91 TO 2.51 LB. AT 0.375 (L1)
   LOAD 3.46 TO 4.46 LB. AT 0.354 (L2)
4. SOLID HEIGHT 0.195 MAX. 5. WIND EITHER HAND
6. FREE LENGTH 0.412 MAX. 7. ENDS CLOSED & GROUND
8. CHECK HERE FOR NON-COMMERCIAL TOLERANCES ☐

MANUFACTURE

9. WIRE DIA. 0.025 10. FREE LENGTH 0.402
11. OUTSIDE DIA. 0.120 12. COILS: ACTIVE 7.9
13. CHECK HERE FOR SET REMOVAL ☐ TOTAL 9.9

DESIGN DATA

14. SPRING RATE 83 LB/IN.
15. STATIC STRESS AT SOLID 285990 LB./SQ.IN.
16. DYNAMIC STRESS 0 LB./SQ.IN.
17. TOTAL STRESS AT SOLID 285990 LB./SQ.IN.
18. SOLID LOAD 13.0 LBS.
19. SPRING INDEX 3.800
20. TORSIONAL MODULUS 11.5E6 LB./SQ.IN.
21. CURVATURE CORRECTION FACTOR 1.430 (WAHL)
22. VELOCITY IMPACTING MASS 0 IN./SEC.
23. CRITICAL FREQUENCY 4888 HZ.
24. TOTAL STRESS AS % OF TENSILE STRENGTH 80%
25. ENERGY FROM L1 TO L2 0.047 IN-LBS.



ALT.	WAS	REF.	BY	DATE
B	REVISED AND REDRAWN		JWR	04-05-07
A	REVISED AND REDRAWN		JWR	10-5-06

ALTERATIONS

THIS SPRING MUST MEET THE REQUIREMENTS IN THE INSPECTION SECTION. FIGURES GIVEN IN THE MANUFACTURE SECTION INDICATE THE PREFERRED SPRING. THE MANUFACTURER MAY, WITH PRIOR APPROVAL, DEVIATE FROM THESE FIGURES. FIGURES IN THE DESIGN DATA SECTION ARE BASED ON THOSE IN THE MANUFACTURE SECTION.

SOLIDWORKS FILE : 301460 - secondary trigger pull spring

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

	A	B	C	D
1	Part Name:	TRIGGER BLANK		
2	Drawing Num:	301462		NOTE- Dimension identifiers will be provided on the prints supplied by engineering & the CAD group.
3	TLW Number:	241460		
4	Revision Level:			INSTRUCTIONS:
5	Vendor:	GENESIS PLASTIC SOLUTIONS		1. STAMP ALL PARTS WITH AN I.D, NUMBER AND CHANGE I.D. AT TOP OF PAGE CORRESPONDINGLY.
6	Requisition #:			2. TAG PARTS ONLY IF STAMPING IS NOT POSSIBLE.
7	Material:	MIM 4140		3. ENTER FEATURE DESCRIPTIONS WHEN POSSIBLE. (OPTIONAL)
8	Hardness:			4. WHEN COMPLETE, RETURN ALL PARTS TO ENGINEER IN ORIGINAL SHIPPING CARTON (IF POSSIBL
9	Metallurgist:			
10	Engineer:	JIM RONKAINEN		INSPECTOR NOTES: Measurement of spring seat angle (feature I) can't be done directly and is difficult to calcula
11	Inspected by:	RONKAINEN		critical to function - parts are OK to use as is.
12	Date:	1/2/2007		
13	Reviewed by:	JR		
14	Date:			
15				
16				
17				
18				
19	**identifier**	**feature description**	**DIM**	**plus**
20	A	Spring Boss OD	**0.1680**	0.003
21	B	DISTANCE to Screw Hole Axis	**0.3900**	0.003
22	C	ANGLE	**35.000**	2.7000
23	D	DISTANCE	**0.025**	0.0040
24		Angle to Top of Screw Boss	**125.000**	2.7750
25		Perpendicularity Check	**90.000**	
26	B	DISTANCE to Screw Hole Axis recheck	**0.3900**	0.003
27	E	Diameter at top of spring seat	**0.1450**	0.0050
28	E	Bonus Positional Tolerance		
29		Eccentricity from E to Screw Hole Axis		
30	B	Positional Tol to Screw Hole Axis	**0.0030**	0.0000
31	F	DISTANCE	**-0.005**	0.0050
32	G	DISTANCE	**0.105**	0.0050
33	H	ID	**0.136**	0.0030
34	I	ANGLE	**30.000**	10.0000
35		Diameter at bottom of spring seat		
36		Eccentricity from bottom to top of spring seat		
37		Depth of spring seat from top face	**-0.0300**	0.0050
38		5-40 UNC Thread		
39				
40		**OHL**	= over high limit	
41		**ULL**	= under low limit	
42				
43				
44				
45				
46				

	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1														
2														
3														
4														
5														
6														
7														
8	LE) AND DRAWING WITH IDENTIFIERS.													
9														
10	ate accurately when the accuracy associated with the measurements is considered. The angle is not													
11														
12														
13														
14														
15														
16														
17														
18														
19	**minus**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**
20	0.003	0.1674	0.1683	0.1677	0.1681	0.1674	0.1675	0.1684	0.1675	0.1683	0.1673	0.1673	0.1671	0.1666
21	0.003	0.3886	0.3906	0.3914	0.3915	0.3887	0.3918	0.3916	**0.3867**	0.3910	0.3918	**0.3933**	0.3912	0.3929
22	2.7000	34.5452	35.9521	34.5781	34.4620	34.5625	35.1033	34.3673	32.8213	36.0782	34.9680	34.4608	35.3285	35.0991
23	0.0040	0.0275	0.0228	0.0233	0.0226	0.0265	0.0258	0.0237	0.0266	0.0260	0.0242	0.0230	0.0246	0.0213
24	2.7750	125.1132	126.1303	124.4741	124.5243	124.7203	124.9642	124.4745	124.8529	124.9173	124.9311	124.4554	124.8976	124.2956
25		90.5680	90.1781	89.8961	90.0623	90.1578	89.8609	90.1072	92.0315	88.8391	89.9631	89.9947	89.5691	89.1965
26	0.003	0.3878	0.3913	0.3913	0.3894	0.3891	0.3914	0.3910	0.3891	0.3891	0.3909	0.3926	0.3893	0.3900
27	0.0050	0.1470	0.1463	0.1466	0.1465	0.1464	0.1467	0.1468	0.1465	0.1461	0.1465	0.1467	0.1464	0.1467
28		0.0070	0.0063	0.0066	0.0065	0.0064	0.0067	0.0068	0.0065	0.0061	0.0065	0.0067	0.0064	0.0067
29		0.0012	0.0016	0.0010	0.0019	0.0018	0.0015	0.0030	0.0007	0.0002	0.0010	0.0042	0.0008	0.0008
30	0.0030	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
31	0.0050	-0.0006	-0.0062	-0.0049	-0.0059	-0.0021	-0.0030	-0.0051	-0.0026	-0.0023	-0.0046	-0.0059	-0.0037	-0.0077
32	0.0050	0.1088	0.1062	0.1062	0.1071	0.1066	0.1063	0.1063	0.1054	0.1063	0.1066	0.1055	0.1059	0.1059
33	0.0030	0.1342	0.1342	0.1342	0.1342	0.1342	0.1342	0.1342	0.1338	0.1342	0.1342	0.1342	0.1342	0.1342
34	10.0000	37.3155	33.7426	34.7127	32.6363	32.8529	36.3482	36.0514	36.6341	31.3340	34.5473	35.1119	36.3405	34.8877
35		0.1280	0.1287	0.1290	0.1298	0.1296	0.1278	0.1280	0.1272	0.1302	0.1285	0.1284	0.1279	0.1285
36		0.0012	0.0010	0.0016	0.0013	0.0014	0.0006	0.0009	0.0011	0.0015	0.0010	0.0008	0.0007	0.0014
37	0.0050	-0.0281	-0.0290	-0.0282	-0.0285	-0.0286	-0.0287	-0.0288	-0.0292	-0.0283	-0.0288	-0.0289	-0.0283	-0.0290
38		OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
39														
40														
41														
42														
43														
44														
45														
46														

	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF
19	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**AVG**
20	0.1666	0.1682	0.1674	0.1673	0.1668	0.1673	0.1681	0.1685	0.1675	0.1681	0.1681	0.1680	0.1673	0.1676
21	0.3923	0.3900	0.3878	0.3896	0.3925	0.3925	0.3879	0.3901	**0.3839**	0.3898	**0.3962**	0.3924	0.3900	0.3906
22	34.8972	35.0948	32.7625	34.2936	35.4086	36.0564	34.3273	34.9934	32.7821	34.2060	36.1133	35.4467	36.0467	34.7983
23	0.0262	0.0218	0.0242	0.0217	0.0247	0.0244	0.0225	0.0216	0.0258	0.0267	0.0249	0.0244	0.0252	0.0243
24	124.8849	124.0291	124.5488	124.1088	124.8186	124.9962	124.6482	124.7651	124.9889	124.9019	124.5387	124.5258	125.1016	124.7541
25	89.9877	88.9343	91.7863	89.8153	89.4100	88.9398	90.3209	89.7716	92.2068	90.6960	88.4253	89.0791	89.0549	89.9559
26	0.3910	0.3890	0.3890	0.3900	0.3904	0.3906	0.3877	0.3878	0.3893	0.3905	**0.3934**	0.3899	0.3882	0.3900
27	0.1465	0.1463	0.1464	0.1465	0.1468	0.1470	0.1472	0.1464	0.1467	0.1463	0.1461	0.1462	0.1466	0.1465
28	0.0065	0.0063	0.0064	0.0065	0.0068	0.0070	0.0072	0.0064	0.0067	0.0063	0.0061	0.0062	0.0066	0.0065
29	0.0017	0.0027	0.0013	0.0003	0.0020	0.0022	0.0014	0.0016	0.0020	0.0020	0.0046	0.0017	0.0012	0.0017
30	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	
31	-0.0026	-0.0076	-0.0050	-0.0064	-0.0041	-0.0039	-0.0061	-0.0067	-0.0034	-0.0023	-0.0036	-0.0033	-0.0035	-0.0043
32	0.1052	0.1059	0.1051	0.1061	0.1066	0.1067	0.1067	0.1073	0.1058	0.1062	0.1058	0.1054	0.1014	0.1060
33	0.1342	0.1342	0.1342	0.1342	0.1342	0.1338	0.1342	0.1342	0.1342	0.1342	0.1342	0.1342	0.1342	0.1342
34	32.4930	33.5454	34.4142	34.3678	35.1636	37.3790	33.6822	32.4194	33.1785	33.3767	33.2250	33.7391	34.5011	34.3846
35	0.1297	0.1286	0.1284	0.1292	0.1286	0.1278	0.1299	0.1300	0.1293	0.1289	0.1291	0.1293	0.1288	0.1288
36	0.0015	0.0006	0.0007	0.0014	0.0014	0.0014	0.0017	0.0003	0.0003	0.0007	0.0011	0.0015	0.0022	0.0011
37	-0.0289	-0.0293	-0.0291	-0.0280	-0.0288	-0.0283	-0.0285	-0.0283	-0.0292	-0.0289	-0.0285	-0.0278	-0.0287	-0.0286
38	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	

	AG	AH	AI	AJ	AK	AL	AM
1							
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3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19	**STDEV**	**Method**					
20	0.0006	MIC					
21	0.0025	MV					
22	0.9391	MV					
23	0.0018	MV					
24	0.4037	MV					
25	0.9443	MV					
26	0.0014	MV					
27	0.0003	MV					
28	0.0003	MV					
29	0.0010	MV					
30		Calculated					
31	0.0019	MV					
32	0.0008	MV					
33	0.0001	Gage Pin					
34	1.6149	Calculated					
35	0.0008	MV					
36	0.0004	MV					
37	0.0004	MV					
38		screw					
39							
40							
41							
42							
43							
44							
45							
46							

Cell: M21
Comment: Administrator:
part checks OK on recheck (see below). OK to use.

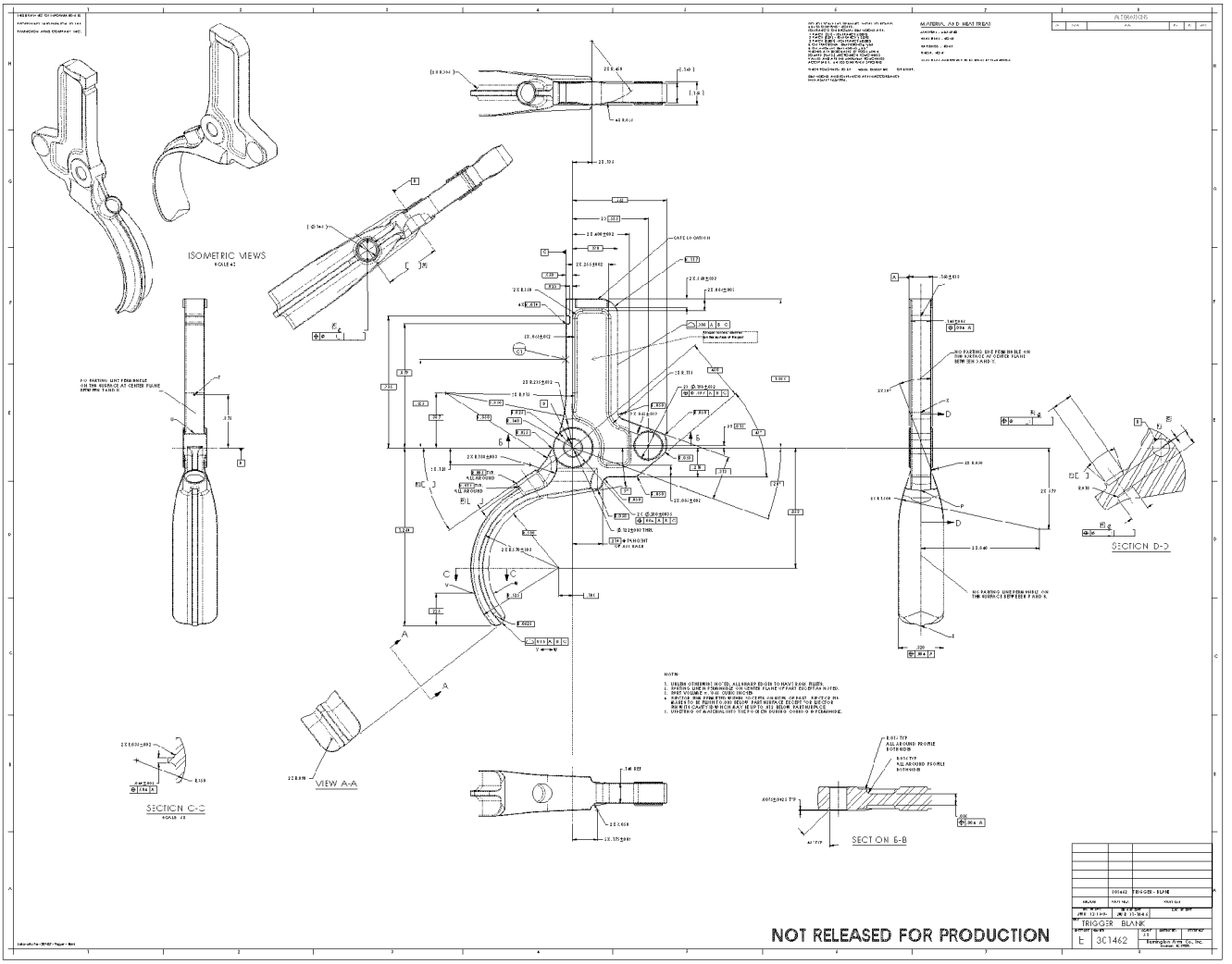
Cell: P21
Comment: Administrator:
part checks OK on recheck (see below). OK to use.

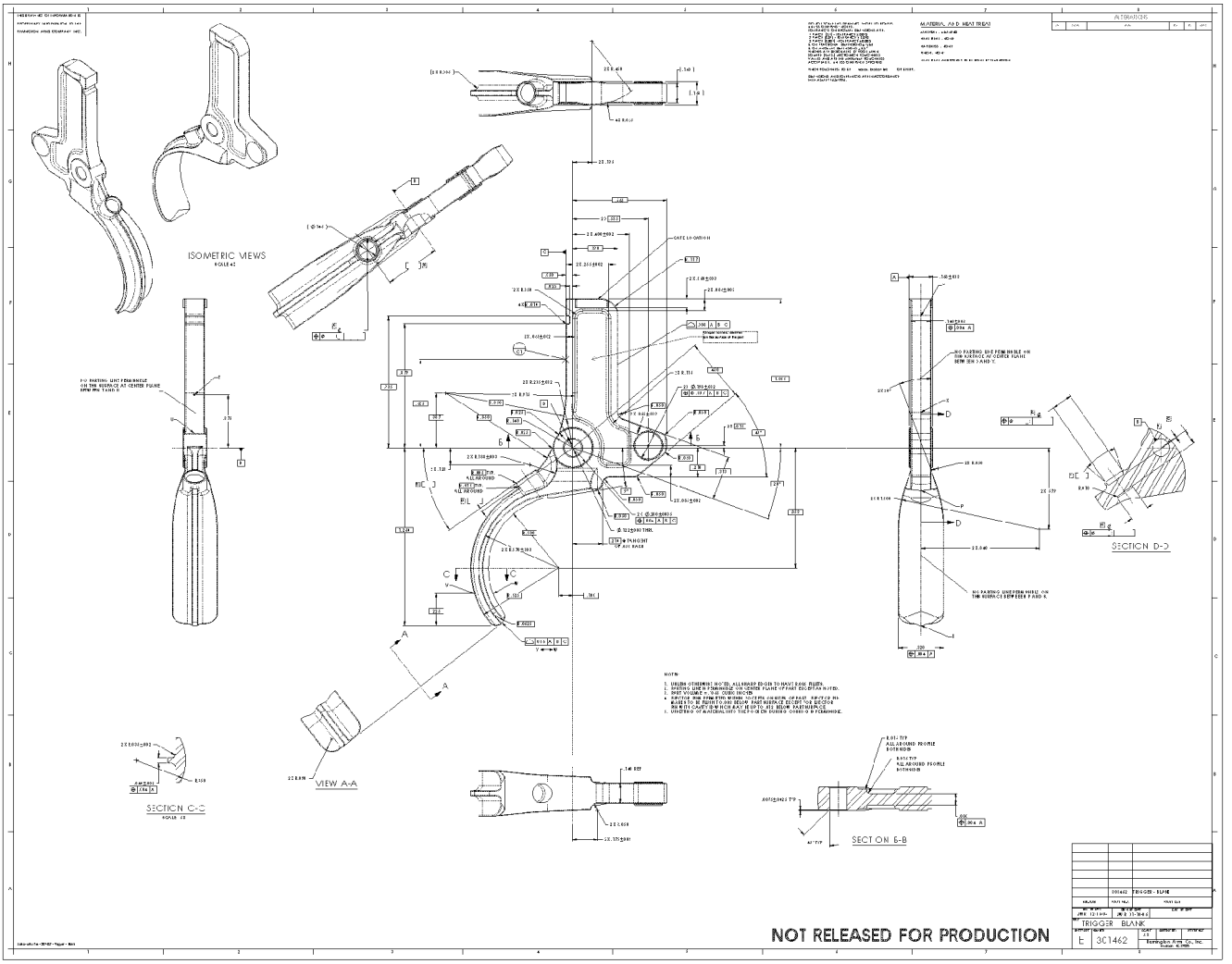
Cell: AA21
Comment: Administrator:
part checks OK on recheck (see below). OK to use.

Cell: AC21
Comment: Jim Ronkainen:
see comment on recheck below - OK to use

Cell: AC26
Comment: Jim Ronkainen:
Part checks at 0.0004 over high limit (near the resolution of the machine). Use part as-is and note any unusual operational issues.

	A
1	
2	
3	301462 - Trigger - Blank NR markup for inspection.pdf
4	
5	
6	
7	
8	View with Adobe Acrobat to properly show highlighting.

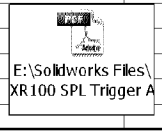

ISOMETRIC VIEWS
SECTION C-C
VIEW A-A
SECTION B-B
SECTION D-D
NOT RELEASED FOR PRODUCTION
TRIGGER BLANK
3C1462


ISOMETRIC VIEWS
SECTION C-C
VIEW A-A
SECTION B-B
SECTION D-D
NOT RELEASED FOR PRODUCTION
TRIGGER BLANK
3C1462

	A	B	C	D	E	F	G	H	I	J	K
1	Inspection Date:		2/27/2007								
2		**A**	**A**	**A**	**J**	**B**	**K**	**D**	**B**	**C**	**D**
3	Trigger #	Pivot Hole Gage Pin Diameter	Pivot Hole Diameter	Pivot Hole Diameter	Top Line Straightness = Angularity	Top Line RMS Error	Rear Line Straightness = Angularity	Rear Line RMS Error	Distance Top Edge: Distance XY	Angle Datum C to Top: Angle	Distance Rear Edge: Distance XY
4		Gage Pin		MV	MV	MV	MV	MV	MV	MV	MV
5	Nominal		0.1260	0.12600	0.00050		0.00100		1.04500	91.0000	0.05000
6	Plus		0.0005	0.00050	0.00000		0.00000		0.00100	0.3000	0.00100
7	Minus		0.0005	0.00050	0.00050		0.00100		0.00100	0.3000	0.00100
8	1	.1255+	0.1257	0.12589	0.00027	0.00005	0.00040	0.00007	1.04593	90.8097	***0.04786***
9	2	.1255+	0.1257	0.12589	0.00023	0.00003	0.00051	0.00012	1.04590	90.7280	***0.04538***
10	3	.1255+	0.1257	0.12594	0.00027	0.00007	0.00055	0.00011	1.04557	90.9122	***0.04430***
11	4	.1255+	0.1257	0.12578	0.00020	0.00004	0.00027	0.00006	1.04599	90.7965	***0.04715***
12	5	.1255+	0.1257	0.12576	0.00023	0.00004	0.00038	0.00008	1.04584	90.8000	***0.04794***
13	6	.1255+	0.1257	0.12587	0.00021	0.00003	0.00024	0.00005	1.04597	90.8700	***0.04513***
14	7	.1255+	0.1257	0.12581	0.00032	0.00007	0.00046	0.00007	1.04555	90.8163	***0.04686***
15	8	.1255+	0.1257	0.12580	0.00038	0.00009	0.00034	0.00006	1.04538	90.8420	***0.04372***
16	9	.1255+	0.1257	0.12577	0.00022	0.00006	0.00035	0.00008	1.04590	90.9215	***0.04804***
17	10	.1255+	0.1257	0.12593	0.00046	0.00009	0.00060	0.00015	1.04536	90.8845	***0.04609***
18	11	.1255+	0.1257	0.12583	0.00018	0.00004	0.00052	0.00011	1.04525	90.8869	***0.04519***
19	12	.1255+	0.1257	0.12580	0.00036	0.00009	0.00026	0.00006	1.04554	90.7112	***0.04750***
20	13	.1255+	0.1257	0.12588	0.00016	0.00003	0.00056	0.00010	1.04575	90.9753	***0.04495***
21	14	.1255+	0.1257	0.12573	0.00019	0.00004	0.00028	0.00006	1.04582	90.8379	***0.04509***
22	15	.1255+	0.1257	0.12586	0.00041	0.00007	0.00021	0.00006	1.04579	90.8077	***0.04394***
23	16	.1255+	0.1257	0.12592	0.00025	0.00005	0.00083	0.00014	1.04544	90.8261	***0.04472***
24	17	.1255+	0.1257	0.12591	0.00043	0.00009	0.00085	0.00017	1.04578	90.8543	***0.04898***
25	18	.1255+	0.1257	0.12601	0.00032	0.00006	0.00047	0.00006	1.04592	90.9722	0.04990
26	19	.1255+	0.1257	0.12593	0.00022	0.00004	0.00050	0.00009	1.04598	90.8719	***0.04616***
27	20										
28	21	.1255+	0.1257	0.12591	0.00017	0.00004	0.00033	0.00007	1.04510	90.8407	***0.04650***
29	22	.1255+	0.1257	0.12577	0.00019	0.00004	0.00021	0.00006	1.04573	90.7703	***0.04707***
30	23	.1255+	0.1257	0.12581	0.00012	0.00002	0.00013	0.00003	1.04528	90.9046	***0.04728***
31	24	.1255+	0.1257	0.12584	0.00033	0.00007	0.00063	0.00013	1.04584	90.7153	***0.04822***
32	25	.1255+	0.1257	0.12590	0.00025	0.00006	0.00039	0.00010	1.04572	90.8231	***0.04557***
33	26	.1255+	0.1257	0.12592	0.00021	0.00004	0.00017	0.00004	**1.04608**	90.8630	***0.04685***
34											
35	Average		0.1257	0.12586	0.00026	0.00005	0.00042	0.00009	1.04570	90.8416	0.04642
36	SD		0.0000	0.00007	0.00009	0.00002	0.00019	0.00004	0.00027	0.0691	0.00161
37	Max		0.1257	0.12601	0.00046	0.00009	0.00085	0.00017	1.04608	90.9753	0.04990
38	Min		0.1257	0.12573	0.00012	0.00002	0.00013	0.00003	1.04510	90.7112	0.04372
39	Range		0.0000	0.00028	0.00034	0.00007	0.00072	0.00014	0.00098	0.2641	0.00618
40											
41		**OHL**	= over high limit								

	L	M	N	O
1				
2	**E**	**F**	**G**	**H**
3	Angle Datum C Rear Edge: Angle	Distance Datum C to Pivot: Distance XY	Angle from Top to Rear Surface	Sear Engagement Surface Roughness
4	MV	MV	MV	Surfometer
5	5.0000	0.05000	86.0000	16.0
6	0.4000	0.00400	0.4000	0.0
7	0.4000	0.00400	0.4000	16.0
8	4.9301	0.05143	85.8796	5.2
9	4.7031	0.05042	86.0248	5.5
10	4.7364	0.05118	86.1758	4.0
11	4.8257	0.05062	85.9708	3.9
12	4.9328	0.05115	85.8672	4.9
13	4.6183	0.04933	86.2517	5.5
14	4.8434	0.05099	85.9729	5.9
15	4.6164	0.05053	86.2256	7.4
16	4.8849	0.05082	86.0367	5.1
17	4.9232	0.05231	85.9614	4.3
18	4.8452	0.05200	86.0416	7.1
19	4.8047	0.05009	85.9065	5.2
20	4.9254	0.05315	86.0499	3.0
21	4.7552	0.05132	86.0827	6.1
22	4.6929	0.05106	86.1148	4.4
23	4.7411	0.05075	86.0850	4.6
24	5.0360	0.05191	85.8183	4.0
25	5.0251	0.05128	85.9471	5.0
26	4.7922	0.05097	86.0797	5.6
27				
28	4.7797	0.05044	86.0610	5.2
29	4.8189	0.05069	85.9514	3.5
30	4.8213	0.05048	86.0833	5.6
31	4.8678	0.05010	85.8475	8.0
32	4.7322	0.05053	86.0909	4.0
33	4.8623	0.05111	86.0007	5.4
34				
35	4.8206	0.05099	86.0211	5.1
36	0.1089	0.00078	0.1115	1.185
37	5.0360	0.05315	86.2517	8.0
38	4.6164	0.04933	85.8183	3.0
39	0.4196	0.00382	0.4334	5.0
40				
41				

	A	B	C	D	E	F	G	H	I	J	K
42		***ULL***	= under low limit								
43											
44											
45											
46											
47											
48											
49											



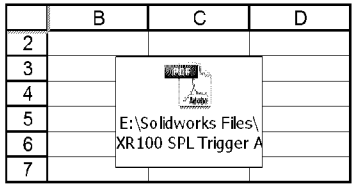
Cell: F3
Comment: Jim Ronkainen:
This attribute is a measurement of the RMS error for the points to the calculated line and is a measure of "goodness of fit" of the data to a perfect line. Lower values are better.

Cell: H3
Comment: Jim Ronkainen:
This attribute is a measurement of the RMS error for the points to the calculated line and is a measure of "goodness of fit" of the data to a perfect line. Lower values are better.

Cell: K3
Comment: Jim Ronkainen:
Values are running out of spec, possibly due to the short length of the edge and straightness issues with the "best fit" line. Feature is not critical to function as engagement is adjusted at assembly and will negate the out of spec condition.

Cell: A27
Comment: Jim Ronkainen:
Trigger #20 is missing

Cell: I33
Comment: Jim Ronkainen:
Part is just above upper limit - variation beyond the upper limit is within the resolution limits of the machine. Part is OK to use as-is.


B
C
D
2
3
4
5
6
7
E:\Solidworks Files\
XR100 SPL Trigger A

THIS DRAWING OR INFORMATION IS PROPRIETARY INFORMATION OF THE REMINGTON ARMS COMPANY, INC.

DO NOT SCALE THIS DRAWING: WORK TO FIGURES UNLESS OTHERWISE NOTED.
TOLERANCES ON DECIMAL DIMENSIONS ARE:
1 PLACE (0.1) - TOLERANCE ± 0.015
2 PLACE (0.01) - TOLERANCE ± 0.010
3 PLACE (0.001) - TOLERANCE ± 0.005
& ON FRACTIONAL DIMENSIONS ± 1/64
& ON ANGULAR DIMENSIONS ± 0.5°
FINISHES ARE DESIGNATED BY ROOT MEAN SQUARE (R.M.S.) MICRO-INCH ROUGHNESS VALUES AND ARE THE MAXIMUM ROUGHNESS ACCEPTABLE. UNLESS OTHERWISE SPECIFIED. FINISH ROUGHNESS TO BE #error: broken link OR BETTER.
DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5 1994.

MATERIAL AND HEAT TREAT

MATERIAL : MIM-4140 RCT.

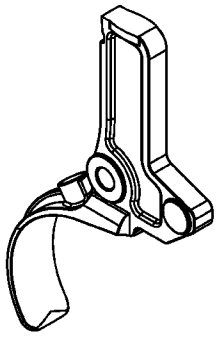
HEAT TREAT : CARBURIZE 0.7% C.P.

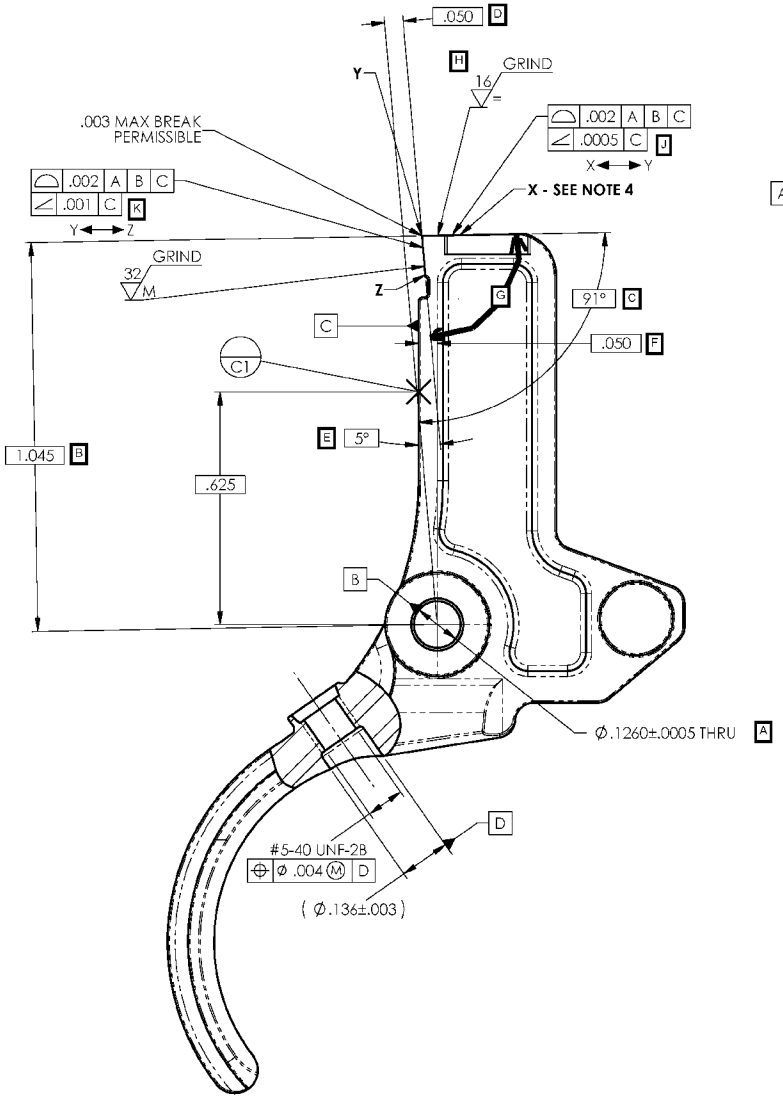
HARDNESS : HR15n 85-90; 0.008 MIN. EFF. CASE

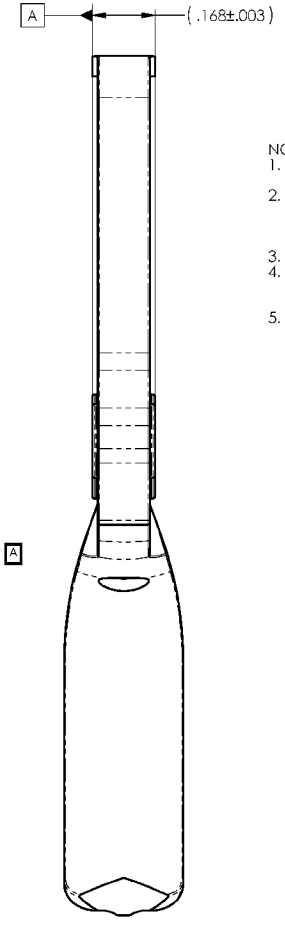
FINISH : SEE NOTES

HEAT TREAT AND FINISH TO BE DONE BY REMINGTON

ALTERATIONS					
ALT.	ZONE	WAS	REF.	BY	DATE







NOTES:
1. ALL MACHINING TO BE DONE PRIOR TO PLATING. PROTECT SHARP EDGE TO PREVENT DAMAGE PRIOR TO AND DURING PLATING.
2. DUPLEX COATING, 0.0002"-0.0003" HIGH PHOSPHOROUS ELECTROLESS NICKEL PLATE, UNDER 0.00005"-0.00015" CO-DEPOSITED MEDIUM PHOSPHORUS ELECTROLESS NICKEL PLATE WITH PTFE (TEFLON). ALL COMPONENTS BAKED @ 375°F FOR 24 HOURS.
3. FOR DIMENSIONS NOT SHOWN, SEE E-301462.
4. POINT X FOR THE PROFILE AND ANGULARITY TOLERANCE ZONE ON THE TOP SURFACE OF THE TRIGGER IS LOCATED .100 ALONG THE SURFACE FROM POINT Y AT THE SHARP EDGE.
5. SURFACE FINISH IS TO BE MEASURED WITH A 10 MICRON PROFILOMETER TIP.

SolidWorks File: 301463 - Trigger

NOT RELEASED FOR PRODUCTION

	301463	TRIGGER
MODEL	PART NO.	PART USE
DES. BY DATE: JWR 12-16-05	DRN. BY DATE: JWR 01-10-06	CHK. BY DATE:
TITLE: TRIGGER		
SHEET SIZE: C	NUMBER: 301463	SCALE: 4X; SUPERSEDES; REFERENCE
REMINGTON ARMS CO., INC. Madison, NC 27025		

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

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2 PLACE (0.01) - TOLERANCE ± 0.010
3 PLACE (0.001) - TOLERANCE ± 0.005
& ON FRACTIONAL DIMENSIONS ± 1/64
& ON ANGULAR DIMENSIONS ± 0.5°
FINISHES ARE DESIGNATED BY ROOT MEAN SQUARE (R.M.S.) MICRO-INCH ROUGHNESS VALUES AND ARE THE MAXIMUM ROUGHNESS ACCEPTABLE. UNLESS OTHERWISE SPECIFIED. FINISH ROUGHNESS TO BE #error: broken link OR BETTER.
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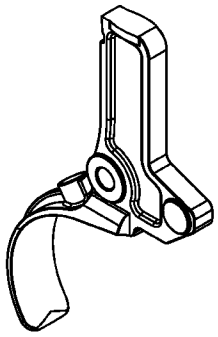
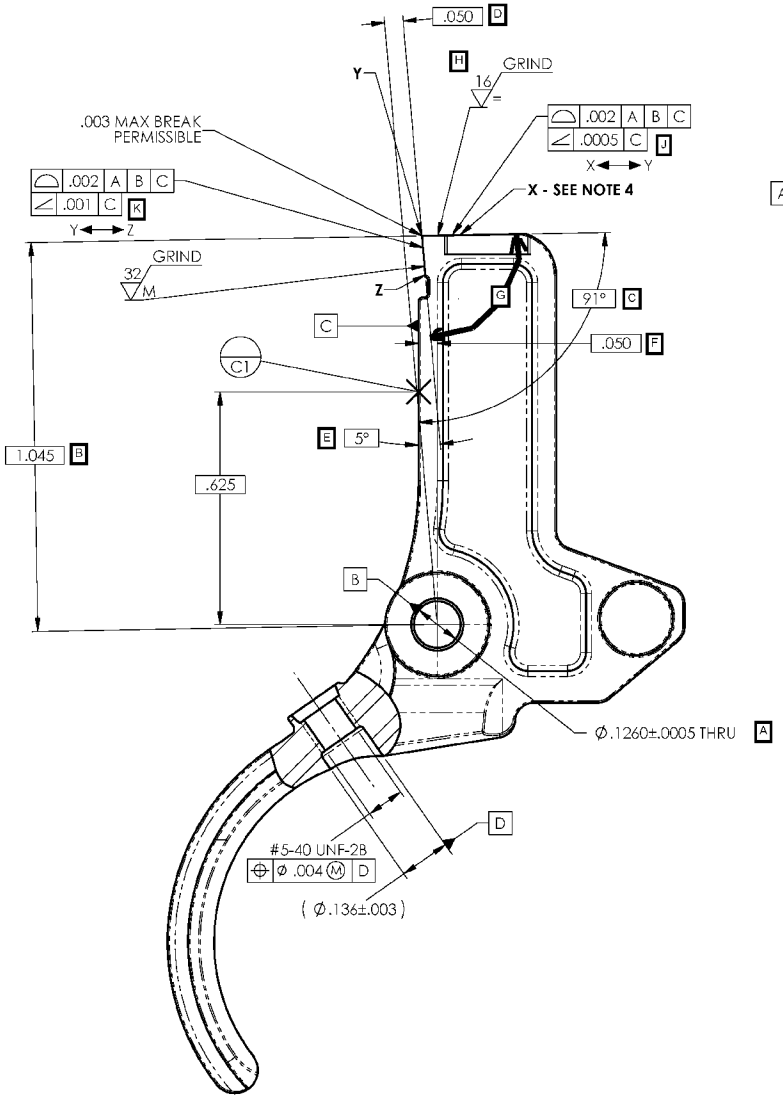
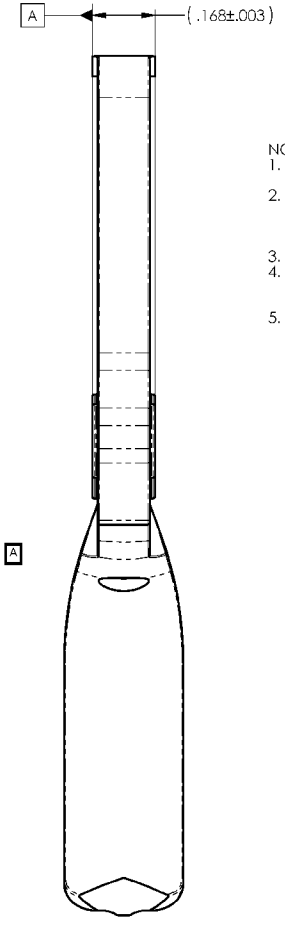
FINISH : SEE NOTES

HEAT TREAT AND FINISH TO BE DONE BY REMINGTON

ALTERATIONS					
ALT.	ZONE	WAS	REF.	BY	DATE







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	301463	TRIGGER
MODEL	PART NO.	PART USE
DES. BY DATE: JWR 12-16-05	DRN. BY DATE: JWR 01-10-06	CHK. BY DATE:
TITLE: TRIGGER		
SHEET SIZE: C	NUMBER: 301463	SCALE: 4X; SUPERSEDES; REFERENCE
REMINGTON ARMS CO., INC. Madison, NC 27025		

SolidWorks File: 301463 - Trigger

NOT RELEASED FOR PRODUCTION

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

	A	B	C	D	E	F	G	H	I	J
1		**A**	**A**	**A**	**C**	**E**	**A**	**B**	**B**	**D**
2	Housing #	Engagement Screw Hole Gage Pin Diameter	Engagement Screw Hole Gage Pin Diameter	Engagement Screw Hole Diameter	Engagement Screw Hole Vertical Position	Engagement Screw Hole Lateral Position	Engagement Screw Hole Position	Trigger Pull Screw Hole Gage Pin Diameter	Trigger Pull Screw Hole Gage Pin Diameter	Trigger Pull Screw Hole Vertical Position
3	Method	Gage Pin	Gage Pin	MV	MV	MV	Calculated	Gage Pin	Gage Pin	MV
4	Nominal		0.120	0.120	0.925	0.1475	0.006		0.120	0.835
5	Plus		0.001	0.001	0.003	0.003	0.000		0.001	0.003
6	Minus		0.001	0.001	0.003	0.003	0.006		0.001	0.003
7	1	.120+	0.1202	0.1209	0.9251	0.1449	0.0053	.119+	0.1192	0.8334
8	2	.120+	0.1202	0.1209	0.9225	0.1455	**0.0065**	.1195+	0.1197	***0.8291***
9	3	.120+	0.1202	0.1205	0.9248	0.1464	0.0022	.119+	0.1192	***0.8307***
10	4	.120+	0.1202	0.1209	0.9233	0.1470	0.0036	.119+	0.1192	***0.8263***
11	5	.120+	0.1202	0.1206	0.9238	0.1480	0.0027	.119+	0.1192	***0.8317***
12	6	.120+	0.1202	0.1206	0.9232	0.1449	**0.0064**	.119+	0.1192	***0.8294***
13	7	.120+	0.1202	0.1204	0.9243	0.1461	0.0032	.119+	0.1192	0.8326
14	8	.120+	0.1202	0.1208	0.9244	0.1448	0.0055	.119+	0.1192	0.8320
15	9	.120+	0.1202	0.1201	0.9237	0.1474	0.0025	.119+	0.1192	***0.8309***
16	10	.120+	0.1202	0.1205	0.9237	0.1474	0.0026	.119+	0.1192	0.8328
17	11	.120+	0.1202	0.1206	0.9222	0.1463	**0.0060**	.119+	0.1192	***0.8304***
18	12									
19	13	.120+	0.1202	0.1204	0.9243	0.1447	0.0059	.119+	0.1192	***0.8316***
20	14	.120+	0.1202	0.1205	0.9225	0.1463	0.0055	.119+	0.1192	0.8324
21	15	.120+	0.1202	0.1204	0.9244	0.1492	0.0035	.119+	0.1192	0.8325
22	16	.120+	0.1202	0.1208	0.9225	***0.1438***	**0.0090**	.119+	0.1192	0.8352
23	17	.120+	0.1202	0.1205	0.9233	0.1446	**0.0066**	.119+	0.1192	***0.8293***
24	18	.120+	0.1202	0.1206	0.9243	0.1457	0.0039	.119+	0.1192	***0.8319***
25	19	.120+	0.1202	0.1205	0.9242	0.1474	0.0016	.119+	0.1192	***0.8293***
26	20	.120+	0.1202	0.1207	0.9242	0.1461	0.0033	.119+	0.1192	***0.8317***
27	21	.120+	0.1202	0.1204	0.9237	0.1461	0.0038	.119+	0.1192	0.8322
28	22	.120+	0.1202	0.1207	0.9238	0.1471	0.0026	.119+	0.1192	0.8377
29	23	.120+	0.1202	0.1208	0.9241	***0.1444***	**0.0064**	.119+	0.1192	***0.8316***
30	24	.120+	0.1202	0.1208	0.9240	0.1455	0.0045	.119+	0.1192	***0.8311***
31	25	.120+	0.1202	0.1209	0.9243	0.1454	0.0044	.119+	0.1192	0.8321
32	Average		0.1202	0.1206	0.9238	0.1460	0.0045		0.1192	0.8316
33	SD		0.0000	0.0002	0.0008	0.0013	0.0018		0.0001	0.0022
34	MAX		0.1202	0.1209	0.9251	0.1492	0.0090		0.1197	0.8377
35	MIN		0.1202	0.1201	0.9222	0.1438	0.0016		0.1192	0.8263
36	Range		0.0000	0.0009	0.0029	0.0054	0.0074		0.0005	0.0114
37										
38		**OHL**	= over high limit							
39		***ULL***	= under low limit							
40										
41										
42										

	K	L	M
1	**B**	**F**	**B**
2	Trigger Pull Screw Hole Diameter	Trigger Pull Screw Hole Lateral Position	Trigger Pull Screw Hole Position
3	MV	MV	Calculated
4	0.120	0.1475	0.006
5	0.001	0.003	0.000
6	0.001	0.003	0.006
7	0.1204	0.1451	0.0057
8	0.1209	***0.1432***	**0.0146**
9	0.1205	0.1468	**0.0087**
10	0.1204	0.1476	**0.0174**
11	0.1201	0.1464	**0.0069**
12	0.1202	0.1450	**0.0123**
13	0.1206	0.1459	0.0058
14	0.1202	***0.1434***	**0.0102**
15	0.1201	0.1472	**0.0082**
16	0.1210	0.1472	0.0044
17	0.1201	0.1464	**0.0096**
18			
19	0.1203	0.1452	**0.0082**
20	0.1201	0.1465	0.0056
21	0.1209	0.1465	0.0053
22	0.1202	0.1461	0.0028
23	0.1199	0.1472	**0.0115**
24	0.1202	0.1457	**0.0071**
25	0.1210	***0.1442***	**0.0132**
26	0.1205	0.1476	**0.0066**
27	0.1209	0.1454	**0.0070**
28	0.1203	0.1464	0.0057
29	0.1208	0.1457	**0.0077**
30	0.1210	0.1473	**0.0079**
31	0.1201	0.1458	0.0035
32	0.1204	0.1460	0.0082
33	0.0003	0.0012	0.0036
34	0.1210	0.1476	0.0174
35	0.1199	0.1432	0.0028
36	0.0010	0.0044	0.0146
37			
38			
39			
40			
41			
42			

	A	B		D	E	F	G	H	I	J
43										
44			E:\Solidworks Files\ XR100 SPL Trigger A							
45										
46										

Cell: D2
Comment: Jim Ronkainen:
For reference only.

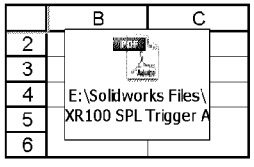
Cell: G2
Comment: Jim Ronkainen:
Hole was drilled and tapped on production fixture. Dimensional results will be fed back to production. Use parts as-is and note any unusual behavior.

Cell: J2
Comment: Jim Ronkainen:
Vertical position of this hole is not critical to function. The slight increase in the trigger spring's moment arm with respect to the trigger pivot is insignificant and can be dialed out with the adjustment of the trigger pull force. Its is OK to use the parts as-is.

Cell: M2
Comment: Jim Ronkainen:
Hole was drilled and tapped on production fixture. Dimensional results will be fed back to production. Most variation is in the vertical direction, which is of no consequence. Use parts as-is and note any unusual behavior.

Cell: L8
Comment: Jim Ronkainen:
This part has the worst deviation of all the parts. The Solidworks layout shows that there is still more than 0.0135" clearance between the major diameter of the screw and the side plate under worst case conditions. All parts are OK to use as-is.

Cell: A18
Comment: Jim Ronkainen:
The trigger houing using rear spacer number 12 was lost in Ilion during processing.


B
C
2
3
4
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6
E:\Solidworks Files\
XR100 SPL Trigger A

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REMINGTON ARMS COMPANY, INC.

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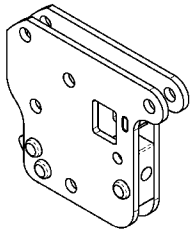
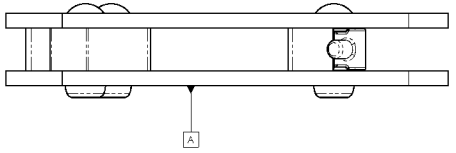
ALL DIMENSIONS ARE IN INCHES
TOLERANCES ON DECIMAL DIMENSIONS ARE:
.X = ±0.010
.XX = ±0.005
.XXX = ±0.002
ANGULAR DIMENSIONS ± 0.5°
BREAK ALL SHARP EDGES .005 - .015 MAX
SURFACE ROUGHNESS PER ANSI B46.1 - 1985
MACHINABLE UNLESS OTHERWISE SPECIFIED
FINISH ROUGHNESS TO BE ____ (Exterior Surfaces Only) UNLESS OTHERWISE SPECIFIED
DIMENSIONING AND TOLERANCING ACCORDANCE WITH ASME Y14.5 - 1994

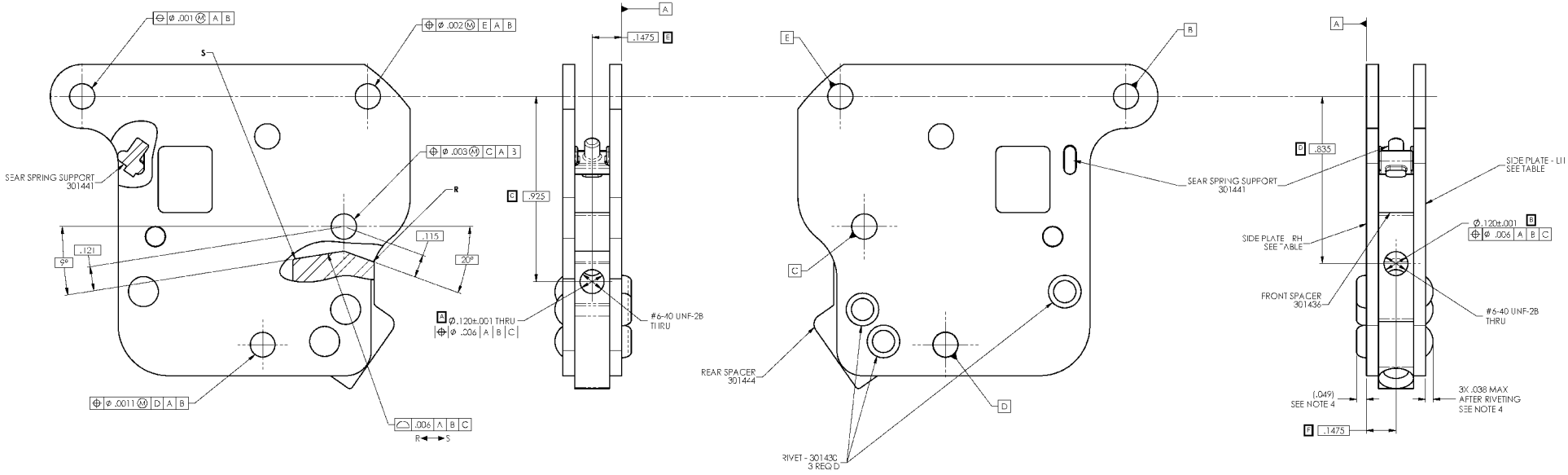
MATERIAL AND HEAT TREAT

MATERIAL - SEE COMPONENT DRAWINGS
HEAT TREAT - NA
HARDNESS - NA
FINISH - SEE NOTES
HEAT TREAT AND FINISH TO BE DONE BY REMINGTON

ALTERATIONS				
ALT.	ZONE	WAS	REF	BY	DATE







TRIGGER HOUSING ASSEMBLY	ASSEMBLY DESCRIPTION	SIDE PLATE - RH	SIDE PLATE - LH
306365	TRIGGER HOUSING ASSEMBLY - RIGHT HAND	301442	301435
306366	TRIGGER HOUSING ASSEMBLY - LEFT HAND	301435	301442

NOTES:
1. ASSEMBLY TO BE PLATED WITH 0.0007" - 0.0004" HIGH PHOSPHORUS ELECTROLESS NICKEL. ALL COMPONENTS BULK FINISHED AND BAKED AT 375° F FOR 24 HOURS OR POST-PROCESS HEAT TREATED PER ASTM B850, CLASS ER-1 OR ER-17, WHICHEVER IS APPLICABLE.
2. DRILL AND TAP HOLES AFTER PLATING.
3. ALL DRILLED AND TAPPED HOLES TO BE DEBURRED.
4. NOTE THAT RIVET POSITIONS ARE REVERSED ON ASSEMBLY 306366. ASSEMBLY 306365 SHOWN IN ALL VIEWS UNLESS OTHERWISE NOTED.

MODEL	PART NO.	PART USE
DES. BY DATE: JWR 12 16 05	DRN. BY DATE: JWR 01-10-06	CHK. BY DATE
TITLE: TRIGGER HOUSING ASSEMBLY		
SIZE: D	NUMBER: 306365	SCALE: 4X
SUPERSEDES		
REMINGTON ARMS CO., INC. Madison, NC 27025		

NOT RELEASED FOR PRODUCTION

SOLIDWORKS FILE - 306365 - Trigger Housing Assembly

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

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REMINGTON ARMS COMPANY, INC.

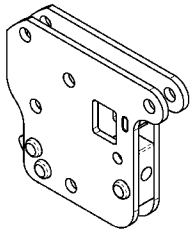
UNLESS OTHERWISE NOTED:
ALL DIMENSIONS ARE IN INCHES
TOLERANCES ON DECIMALS:
.X = ±0.010
.XX = ±0.005
.XXX = ±0.002
ANGULAR: MACH ± 0.5°
BREAK ALL SHARP EDGES .005 - .015 R MAX
SURFACE ROUGHNESS:
ALL OTHER MACHINED SURFACES 125
ACCEPTABLE, UNLESS OTHERWISE SPECIFIED
FINISH ROUGHNESS TO BE: Interior Exterior Both
ASSEMBLED PARTS ARE TO BE FREE OF BURRS, METAL CHIPS AND OTHER FOREIGN MATERIAL

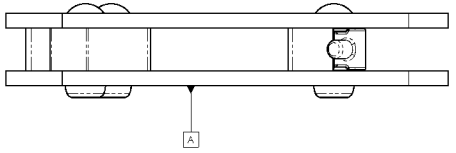
MATERIAL AND HEAT TREAT

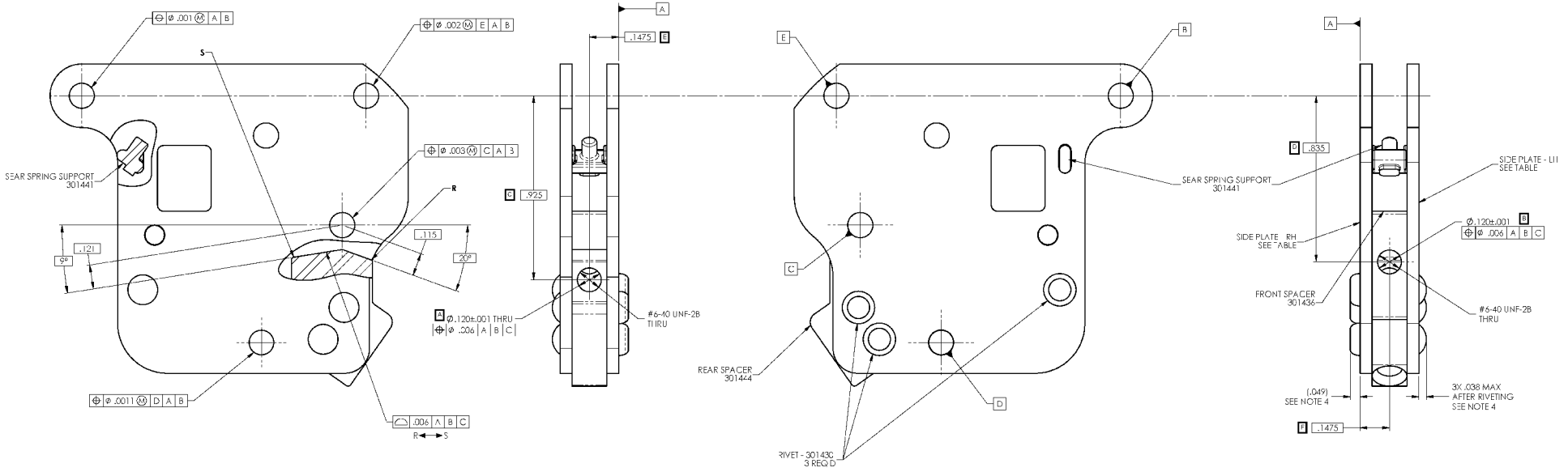
MATERIAL - SEE COMPONENT DRAWINGS
HEAT TREAT - NA
HARDNESS - NA
FINISH - SEE NOTES
HEAT TREAT AND FINISH TO BE DONE BY REMINGTON

ALTERATIONS

ALT.	ZONE	WAS	REF	BY	DATE







TRIGGER HOUSING ASSEMBLY	ASSEMBLY DESCRIPTION	SIDE PLATE - RH	SIDE PLATE - LH
306365	TRIGGER HOUSING ASSEMBLY - RIGHT HAND	301442	301435
306366	TRIGGER HOUSING ASSEMBLY - LEFT HAND	301435	301442

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3. ALL DRILLED AND TAPPED HOLES TO BE DEBURRED.
4. NOTE THAT RIVET POSITIONS ARE REVERSED ON ASSEMBLY 306366. ASSEMBLY 306365 SHOWN IN ALL VIEWS UNLESS OTHERWISE NOTED.

SOLIDWORKS FILE - 306365 - Trigger Housing Assembly

NOT RELEASED FOR PRODUCTION

MODEL	PART NO.	PART USE
DES. BY DATE: JWR 12 16 05	DRN. BY DATE: JWR 01-10-06	CHK. BY DATE

TITLE: TRIGGER HOUSING ASSEMBLY

SIZE	DRAWING NUMBER	SCALE	SUPERSEDES	REMARKS
D	306365	4X		

REMINGTON ARMS CO., INC.
Madison, NC 27025

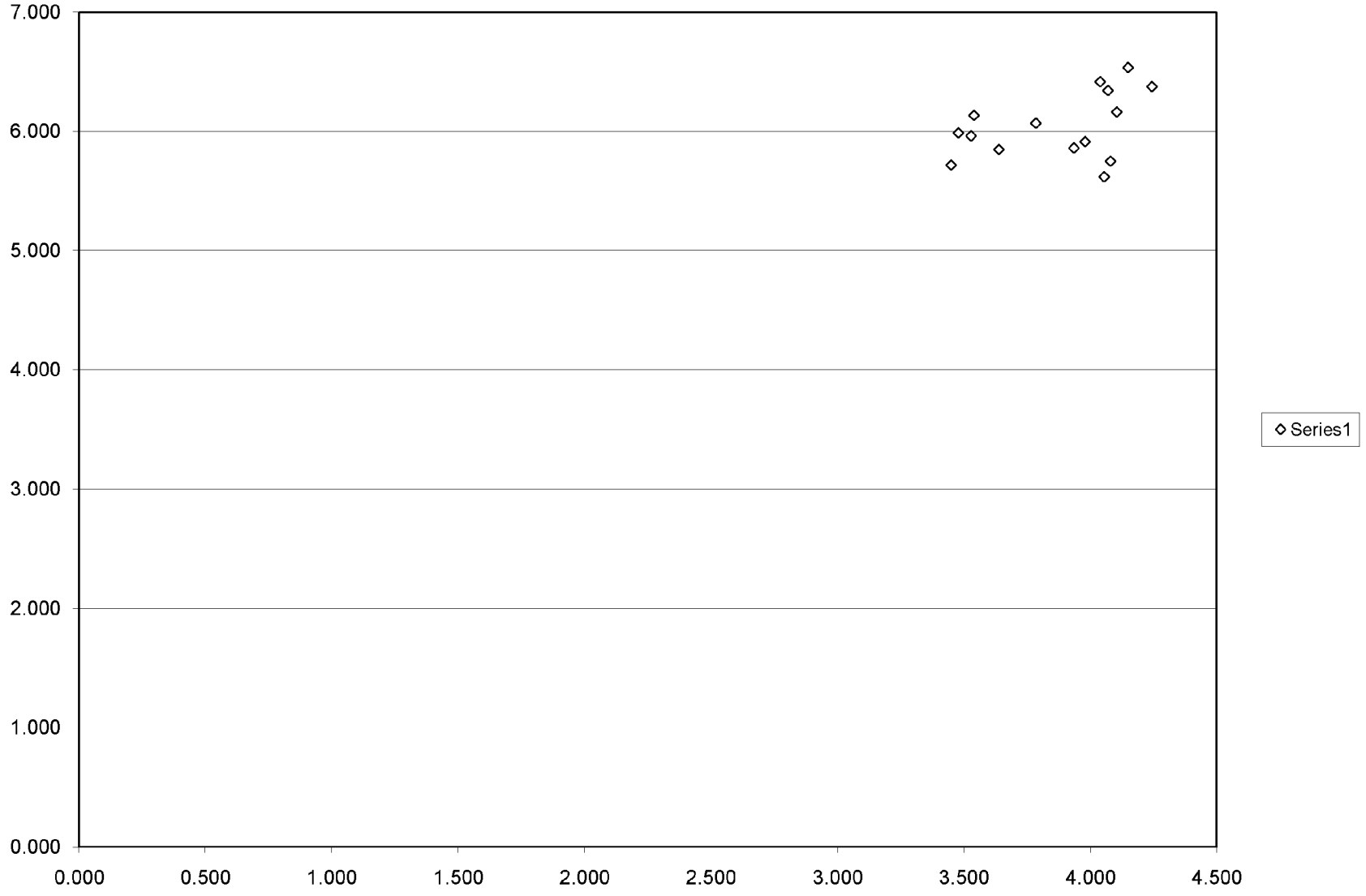
CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

	A	B	C	D	E	F
1						
2		A1	A2	A3	A4	A5
3	Freebore Diameter Gage Pin	.2075-	.2075-	.2075-	.2075-	.2075-

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1															
2		1	2	3	4	5	6	7	8	9	10	11	12	13	14
3	FL	0.4054	0.4043	0.4077	0.4076	0.4087	0.4043	0.4046	0.4041	0.4062	0.4037	0.4084	0.4076	0.4069	0.4062
4	L1	1.535	***1.215***	1.715	1.725	1.820	1.310	1.305	1.375	1.550	1.355	1.790	1.715	1.720	***1.965***
5	L2	3.785	3.480	3.980	3.935	4.055	3.540	***3.450***	3.640	4.150	3.530	4.040	4.070	4.105	4.245
6															
7	Min TP	2.532	2.578	2.533	2.546	2.559	***2.636***	2.582	2.627	2.577	2.530	2.557	2.551	2.537	2.556
8	Max TP	6.070	5.987	5.914	5.860	***5.620***	6.134	5.718	5.848	***6.535***	5.963	6.416	6.341	6.163	6.376

	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE
1																
2	15	16	17	18	19	20	21	22	23	24			Avg	SD	Max	Min
3	0.4118	0.4081	0.4045	0.4083	0.4033	0.4066	0.4084	0.4081	0.4073	0.4055	0.4078	0.4063				
4	1.850	1.805	1.675	1.925	1.570	1.815	1.880	1.815	1.450	1.800	1.795	1.820	1.665	0.213	1.965	1.215
5	4.080	4.070	3.975	4.180	3.850	4.060	4.140	4.030	***4.365***	4.120	4.025	4.115	3.962	0.245	4.365	3.450
6																
7	***2.515***												2.561	0.034	2.636	2.515
8	5.751												6.046	0.277	6.535	5.620

	AF
1	
2	Range
3	
4	0.750
5	0.915
6	
7	0.121
8	0.916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	A	B	C	D	E	F	G	H	I	J	K	L	M
1		A1 factory settings	A2 factory settings	A3 factory settings	A4 factory settings	A5 factory settings	A6 factory settings	A7 factory settings	A8 factory settings	A9 factory settings	A10 factory settings	A11 factory settings	A12 factory settings
2	Engagement	0.0230	0.0288	0.0243	0.0216	0.0280	0.0202	0.0215	0.0225	0.0204	0.0226	0.0271	0.0315
3	Overtravel	0.020	0.015	0.019	0.023	0.019	0.022	0.021	0.023	0.023	0.022	0.021	0.020
4	TP1	3.291	2.962	3.609	2.975	3.404	3.548	3.233	3.656	4.000	3.728	2.999	3.969
5	TP2	3.510	2.627	4.342	3.061	2.498	3.514	3.517	3.505	3.731	3.728	3.027	4.151
6	TP3	3.449	2.661	4.004	3.187	2.874	3.460	3.499	3.436	3.532	3.677	2.794	3.928
7	TP4	3.456	2.715	3.219	3.066	2.520	3.399	3.504	3.505	3.328	3.715	2.885	4.161
8	TP5	3.383	2.637	3.332	2.989	2.485	3.434	3.545	3.489	3.389	3.763	2.905	4.110
9	TP6	4.039	2.567	3.341	3.111	2.458	3.490	3.412	3.340	3.244	3.751	2.976	4.087
10	TP7	3.387	3.020	3.174	3.466	2.439	3.461	3.485	3.009	3.969	3.713	3.034	4.106
11	TP8	3.614	2.828	3.354	3.164	2.476	3.500	3.418	3.518	3.318	3.717	2.852	4.136
12	TP9	3.498	2.636	3.350	3.170	2.652	3.540	3.498	3.167	3.240	3.653	2.860	3.966
13	TP10	4.379	2.662	3.254	3.991	2.488	3.504	3.462	3.327	3.066	3.512	3.820	4.070
14	Avg.	3.601	2.732	3.498	3.218	2.629	3.485	3.457	3.395	3.482	3.696	3.015	4.068
15	SD	0.342	0.153	0.383	0.305	0.302	0.047	0.089	0.190	0.319	0.072	0.294	0.084

	N	O	P
1	A13 factory settings	A14 factory settings	A15 factory settings
2	0.0222	0.0269	0.0224
3	0.021	0.024	0.019
4	3.750	3.154	3.827
5	3.831	3.326	3.612
6	3.628	3.052	3.575
7	3.752	3.275	4.121
8	3.869	3.186	3.684
9	3.474	3.128	3.716
10	4.077	3.299	3.656
11	3.717	3.149	3.58
12	3.552	3.059	3.609
13	3.605	2.783	3.477
14	3.726	3.141	3.686
15	0.174	0.157	0.179

Cell: F1
Comment: metrology1:
PM trigger
safety operates hard

Cell: L1
Comment: metrology1:
PM trigger

Cell: M1
Comment: metrology1:
PM trigger

Cell: O1
Comment: metrology1:
PM trigger

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1		**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**	**A10**	**A11**	**A12**	**A13**	**A14**
2	Engagement 1	0.0200	0.0200	0.0198	0.0204	0.0204	0.0200	0.0202	0.0201	0.0201	0.0201	0.0200	0.0200	0.0202	0.0201
3	Engagement 2	0.0201	0.0199	0.0199	0.0204	0.0207	0.0200	0.0201	0.0201	0.0202	0.0201	0.0198	0.0201	0.0204	0.0201
4	Engagement 3	0.0201	0.0200	0.0199	0.0205	0.0207	0.0201	0.0202	0.0201	0.0203	0.0201	0.0198	0.0202	0.0204	0.0200
5	Average:	0.0201	0.0200	0.0199	0.0204	0.0206	0.0200	0.0202	0.0201	0.0202	0.0201	0.0199	0.0201	0.0203	0.0201
6	SD:	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0000	0.0001	0.0000	0.0001	0.0001	0.0001	0.0001
7															
8	TMIS 1	0.003	0.004	0.005	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
9	TMIS 2	0.003	0.004	0.005	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
10	TMIS 3	0.003	0.004	0.005	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.003
11	Average:	0.0030	0.0040	0.0050	0.0030	0.0030	0.0040	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	0.0033	0.0030
12	SD:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0006	0.0000
13	Overtravel	0.028	0.032	0.036	0.026	0.028	0.036	0.028	0.034	0.034	0.032	0.032	0.034	0.031	0.032
14	**MIN**														
15	Trigger Pull 1	2.445	2.512	2.466	2.545	2.531	2.483	2.550	2.754	2.601	2.526	2.541	2.634	2.588	2.466
16	Trigger Pull 2	2.592	2.591	2.516	2.645	2.573	2.592	2.707	2.618	2.439	2.492	2.489	2.513	2.520	2.583
17	Trigger Pull 3	2.538	2.561	2.485	2.458	2.577	2.691	2.590	2.670	2.522	2.499	2.555	2.608	2.504	2.577
18	Trigger Pull 4	2.577	2.585	2.510	2.565	2.543	2.712	2.552	2.568	2.693	2.526	2.601	2.472	2.588	2.542
19	Trigger Pull 5	2.515	2.563	2.535	2.479	2.582	2.620	2.609	2.523	2.482	2.581	2.580	2.550	2.510	2.533
20	Trigger Pull 6	2.431	2.631	2.532	2.525	2.504	2.693	2.558	2.602	2.645	2.561	2.534	2.496	2.596	2.676
21	Trigger Pull 7	2.571	2.635	2.747	2.471	2.693	2.626	2.600	2.569	2.551	2.571	2.588	2.516	2.546	2.466
22	Trigger Pull 8	2.543	2.597	2.504	2.605	2.520	2.659	2.504	2.651	2.607	2.482	2.542	2.640	2.449	2.564
23	Trigger Pull 9	2.577	2.564	2.523	2.560	2.545	2.651	2.553	2.672	2.648	2.583	2.593	2.494	2.533	2.597
24	Trigger Pull 10	2.531	2.539	2.515	2.605	2.526	2.634	2.593	2.640	2.580	2.482	2.543	2.588	2.533	2.558
25	Average:	2.532	2.578	2.533	2.546	2.559	2.636	2.582	2.627	2.577	2.530	2.557	2.551	2.537	2.556
26	SD:	0.055	0.038	0.078	0.063	0.054	0.065	0.054	0.066	0.079	0.041	0.034	0.062	0.046	0.062
27	**MAX**														
28	Trigger Pull 1	5.998	6.036	6.020	5.835	5.461	6.039	5.705	5.758	6.542	6.061	6.366	6.339	6.061	6.364
29	Trigger Pull 2	6.082	5.860	5.853	6.053	5.605	6.120	5.818	5.738	6.534	5.962	6.357	6.384	6.181	6.393
30	Trigger Pull 3	6.003	6.172	5.904	6.080	5.553	6.167	5.631	5.731	6.580	5.830	6.461	6.494	6.053	6.401
31	Trigger Pull 4	6.072	6.024	6.026	5.944	5.562	6.356	5.619	5.675	6.638	5.898	6.638	6.366	6.409	6.405
32	Trigger Pull 5	6.192	6.095	5.942	5.707	5.729	6.061	5.648	5.777	6.547	5.878	6.332	6.401	6.054	6.421
33	Trigger Pull 6	6.090	5.934	5.953	5.696	5.714	6.007	5.854	5.649	6.504	5.947	6.338	6.266	6.018	6.311
34	Trigger Pull 7	6.084	5.894	5.995	6.077	5.718	6.061	5.785	6.205	6.506	5.982	6.488	6.234	6.199	6.331
35	Trigger Pull 8	6.035	5.841	5.936	5.715	5.689	6.019	5.755	5.947	6.477	5.986	6.304	6.300	6.296	6.368
36	Trigger Pull 9	6.061	6.042	5.704	5.725	5.592	6.534	5.682	5.972	6.528	5.982	6.479	6.345	6.267	6.374
37	Trigger Pull 10	6.084	5.971	5.811	5.768	5.572	5.973	5.684	6.026	6.496	6.099	6.396	6.277	6.094	6.390
38	Average:	6.070	5.987	5.914	5.860	5.620	6.134	5.718	5.848	6.535	5.963	6.416	6.341	6.163	6.376
39	SD:	0.055	0.106	0.101	0.163	0.089	0.178	0.081	0.180	0.047	0.081	0.101	0.076	0.129	0.034
40	**Test**														
41	Trigger Pull 1	3.722	3.480	3.638	3.455	3.485	3.481	3.479	3.553	3.444	3.308	3.645	3.463	3.513	3.593
42	Trigger Pull 2	3.652	3.554	3.649	3.442	3.410	3.471	3.481	3.580	3.410	3.384	3.574	3.474	3.515	3.436
43	Trigger Pull 3	3.647	3.577	3.648	3.407	3.408	3.545	3.485	3.522	3.390	3.318	3.589	3.465	3.494	3.555
44	Trigger Pull 4	3.566	3.492	3.642	3.392	3.396	3.516	3.401	3.466	3.412	3.358	3.526	3.529	3.547	3.638

	P	Q	R	S	T	U
1	**A15**	**A16**	**A17**	**A18**	**A19**	**A20**
2	0.0206	0.0201	0.0201	0.0201	0.0205	0.0202
3	0.0206	0.0199	0.0200	0.0203	0.0207	0.0201
4	0.0207	0.0197	0.0200	0.0201	0.0204	0.0201
5	0.0206	0.0199	0.0200	0.0202	0.0205	0.0201
6	0.0001	0.0002	0.0001	0.0001	0.0002	0.0001
7						
8	0.004	0.003	0.003	0.006	0.003	0.003
9	0.004	0.003	0.003	0.006	0.003	0.003
10	0.004	0.003	0.003	0.006	0.003	0.003
11	0.0040	0.0030	0.0030	0.0060	0.0030	0.0030
12	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	0.038	0.036	0.037	0.036	0.036	0.038
14						
15	2.488	2.520	2.569	2.483	2.524	2.597
16	2.445	2.469	2.580	2.506	2.510	2.570
17	2.511	2.432	2.657	2.521	2.535	2.626
18	2.560	2.515	2.541	2.475	2.575	2.593
19	2.496	2.542	2.605	2.541	2.528	2.612
20	2.578	2.572	2.614	2.526	2.541	2.598
21	2.468	2.549	2.550	2.549	2.623	2.587
22	2.610	2.575	2.536	2.516	2.628	2.621
23	2.450	2.518	2.553	2.559	2.544	2.591
24	2.544	2.485	2.573	2.436	2.559	2.679
25	2.515	2.518	2.578	2.511	2.557	2.607
26	0.056	0.045	0.038	0.038	0.041	0.030
27						
28	5.820	5.517	5.991	5.699	5.632	5.809
29	5.782	5.514	6.026	5.886	5.620	5.801
30	5.892	5.537	6.034	5.671	5.685	5.833
31	5.855	5.499	6.038	5.661	5.691	5.885
32	5.620	5.532	6.028	5.515	5.596	5.840
33	5.887	5.531	6.038	5.594	5.712	5.772
34	5.836	5.528	6.011	5.503	5.662	5.782
35	5.793	5.508	6.004	5.420	5.615	5.847
36	5.529	5.506	5.977	6.054	5.599	5.827
37	5.499	5.52	6.004	5.496	5.667	5.866
38	5.751	5.519	6.015	5.650	5.648	5.826
39	0.147	0.013	0.021	0.195	0.041	0.036
40						
41	3.527	3.023	3.712	3.437	3.693	3.401
42	3.550	3.080	3.678	3.490	3.736	3.455
43	3.610	3.069	3.695	3.488	3.709	3.444
44	3.570	3.100	3.709	3.404	3.747	3.428

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
45	Trigger Pull 5	3.484	3.455	3.695	3.390	3.428	3.512	3.477	3.525	3.434	3.347	3.498	3.493	3.467	3.620
46	Trigger Pull 6	3.597	3.485	3.577	3.464	3.382	3.565	3.423	3.536	3.480	3.416	3.557	3.531	3.488	3.553
47	Trigger Pull 7	3.618	3.519	3.640	3.378	3.322	3.462	3.555	3.485	3.423	3.256	3.499	3.562	3.536	3.551
48	Trigger Pull 8	3.601	3.511	3.636	3.374	3.345	3.404	3.480	3.572	3.482	3.374	3.467	3.489	3.497	3.518
49	Trigger Pull 9	3.601	3.575	3.669	3.480	3.346	3.520	3.447	3.506	3.537	3.336	3.503	3.412	3.621	3.618
50	Trigger Pull 10	3.577	3.607	3.717	3.477	3.256	3.445	3.453	3.510	3.436	3.324	3.510	3.569	3.580	3.545
51	Average:	3.607	3.526	3.651	3.426	3.378	3.492	3.468	3.526	3.445	3.342	3.537	3.499	3.526	3.563
52	SD:	0.062	0.050	0.038	0.042	0.064	0.049	0.042	0.036	0.044	0.045	0.054	0.049	0.047	0.059
53	Sear Lift				0.012	0.010				0.011	0.010				0.011

	P	Q	R	S	T	U
45	3.550	3.084	3.701	3.473	3.710	3.452
46	3.595	3.042	3.797	3.373	3.670	3.388
47	3.589	3.020	3.718	3.460	3.682	3.429
48	3.601	3.033	3.785	3.469	3.689	3.411
49	3.581	3.023	3.669	3.418	3.687	3.444
50	3.630	3.074	3.71	3.560	3.642	3.385
51	3.580	3.055	3.717	3.457	3.697	3.424
52	0.031	0.030	0.042	0.053	0.031	0.026
53	0.010				0.010	

Cell: Q1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: R1
Comment: metrology1:
for dry cycle on receiver S7607332

Cell: S1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: T1
Comment: metrology1:
replaced XMP#12 in gun A12 at 500 rds when trigger broke. Gun A13 replaced gun A12 for endurance testing to 1000 rounds.

Cell: U1
Comment: metrology1:
for dry cycle on receiver S7607332 after XMP#17 trigger broke at 5000 cycles

	A	B	C	D	E	F	G	H	I	J
1		**A1**	**A2**	**A3**	**A6**	**A7**	**A8**	**A11**	**A12**	**A13**
2	Engagement 1	0.0200	0.0211	0.0215	0.0204	0.0208	0.0210	0.0216	0.0226	0.0252
3	Engagement 2	0.0201	0.0213	0.0215	0.0204	0.0210	0.0210	0.0216	0.0227	0.0249
4	Engagement 3	0.0201	0.0212	0.0215	0.0206	0.0209	0.0210	0.0216	0.0225	0.0250
5	Average:	0.0201	0.0212	0.0215	0.0205	0.0209	0.0210	0.0216	0.0226	0.0250
6	SD:	0.0001	0.0001	0.0000	0.0001	0.0001	0.0000	0.0000	0.0001	0.0002
7										
8	TMIS 1	0.003	0.007	0.005	0.003	0.004	0.003	0.005	0.004	0.010
9	TMIS 2	0.004	0.006	0.005	0.003	0.004	0.003	0.005	0.004	0.011
10	TMIS 3	0.003	0.006	0.005	0.003	0.004	0.003	0.004	0.004	0.010
11	Average:	0.0033	0.0063	0.0050	0.0030	0.0040	0.0030	0.0047	0.0040	0.0103
12	SD:	0.0006	0.0006	0.0000	0.0000	0.0000	0.0000	0.0006	0.0000	0.0006
13	**Test**									
14	Trigger Pull 1	3.835	3.453	3.809	3.882	3.731	4.019	3.780		3.586
15	Trigger Pull 2	3.630	3.412	3.777	3.942	3.724	4.005	3.926		3.447
16	Trigger Pull 3	3.645	3.424	3.754	3.961	3.763	4.016	3.821		3.490
17	Trigger Pull 4	3.578	3.543	3.715	3.966	3.685	4.063	3.902		3.574
18	Trigger Pull 5	3.772	3.541	3.766	3.917	3.777	3.949	3.717		3.548
19	Trigger Pull 6	3.540	3.509	3.780	3.860	3.730	4.010	3.904		3.483
20	Trigger Pull 7	3.765	3.462	3.774	3.874	3.755	4.036	3.923		3.601
21	Trigger Pull 8	3.727	3.479	3.754	3.778	3.745	4.031	3.780		3.555
22	Trigger Pull 9	3.794	3.287	3.756	3.888	3.806	3.997	3.896		3.520
23	Trigger Pull 10	3.699	3.363	3.697	3.799	3.843	3.960	3.920		3.425
24	Average:	3.699	3.447	3.758	3.887	3.756	4.009	3.857		3.523
25	SD:	0.098	0.080	0.032	0.063	0.045	0.034	0.076		0.060
26	Sear Lift			0.010			0.011			

Cell: I1
Comment: metrology1:
Trigger accidentally broke after measuring engagement and TMIS, but before trigger pull. Trigger assembly 19 replaced trigger assembly 12 on this gun.

Cell: I14
Comment: metrology1:
Trigger accidentally broke after measuring engagement and TMIS, but before trigger pull. Trigger assembly 19 replaced trigger assembly 12 on this gun.

	A	B	C	D	E	F	G	H	I	J	K
1		**A1**	**A2**	**A6**	**A7**	**A11**	**A13**	A16	A17	A18	A20
2	Engagement 1	0.0197	0.0214	0.0205	0.0201	0.0213	0.0252	0.0219	0.0206	0.0219	0.0207
3	Engagement 2	0.0196	0.0213	0.0203	0.0203	0.0215	0.0252	0.0216	0.0205	0.0219	0.0207
4	Engagement 3	0.0196	0.0214	0.0204	0.0203	0.0214	0.0251	0.0216	0.0202	0.0202	0.0210
5	Average:	0.0196	0.0214	0.0204	0.0202	0.0214	0.0252	0.0217	0.0204	0.0213	0.0208
6	SD:	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0010	0.0002
7											
8	TMIS 1	0.003	0.006	0.003	0.004	0.005	0.011	0.005	0.003	0.006	0.004
9	TMIS 2	0.003	0.006	0.003	0.004	0.005	0.011	0.005	0.003	0.006	0.003
10	TMIS 3	0.003	0.006	0.003	0.004	0.004	0.011	0.004	0.003	0.007	0.004
11	Average:	0.0030	0.0060	0.0030	0.0040	0.0047	0.0110	0.0047	0.0030	0.0063	0.0000
12	SD:	0.0000	0.0000	0.0000	0.0000	0.0006	0.0000	0.0006	0.0000	0.0006	0.0007
13	**Test**										
14	Trigger Pull 1	4.255	3.318	4.032	3.858	3.989	3.683	3.513	3.798	3.89	3.422
15	Trigger Pull 2	4.234	3.288	3.965	3.805	4.037	3.845	3.833	4.009	3.929	3.239
16	Trigger Pull 3	4.158	3.248	3.933	3.645	3.966	3.669	3.666	3.84	3.803	3.254
17	Trigger Pull 4	4.172	3.385	3.989	3.863	4.142	3.750	3.578	3.793	3.817	3.331
18	Trigger Pull 5	4.196	3.383	4.044	3.737	4.077	3.622	3.667	3.708	3.749	3.264
19	Trigger Pull 6	4.199	3.379	3.956	3.717	4.075	3.611	3.713	3.866	3.867	3.286
20	Trigger Pull 7	4.164	3.338	3.944	3.785	4.039	3.569	3.704	3.781	3.853	3.24
21	Trigger Pull 8	4.213	3.364	3.917	3.749	3.985	3.648	3.689	3.759	3.804	3.242
22	Trigger Pull 9	4.121	3.328	3.843	3.636	4.048	3.597	3.635	3.768	3.828	3.22
23	Trigger Pull 10	4.175	3.295	3.907	3.871	3.989	3.691	3.626	3.745	3.815	3.235
24	Average:	4.189	3.333	3.953	3.767	4.035	3.669	3.662	3.807	3.836	3.273
25	SD:	0.039	0.046	0.060	0.086	0.054	0.081	0.085	0.084	0.051	0.061
26	Sear Lift		0.012		0.012		0.010				

Cell: H1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: I1
Comment: metrology1:
for dry cycle on receiver S7607332

Cell: J1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: K1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		**A1**	**A6**	**A11**
2	Engagement 1	0.0197	0.0203	0.0218
3	Engagement 2	0.0196	0.0204	0.0216
4	Engagement 3	0.0195	0.0203	0.0215
5	Average:	0.0196	0.0203	0.0216
6	SD:	0.0001	0.0001	0.0002
7				
8	TMIS 1	0.004	0.003	0.005
9	TMIS 2	0.004	0.003	0.005
10	TMIS 3	0.004	0.003	0.005
11	Average:	0.0040	0.0030	0.0050
12	SD:	0.0000	0.0000	0.0000
13	**Test**			
14	Trigger Pull 1	4.346	3.985	3.736
15	Trigger Pull 2	4.364	4.061	3.663
16	Trigger Pull 3	4.276	4.069	3.820
17	Trigger Pull 4	4.384	3.923	3.828
18	Trigger Pull 5	4.295	3.882	3.864
19	Trigger Pull 6	4.218	4.01	3.775
20	Trigger Pull 7	4.263	3.934	3.846
21	Trigger Pull 8	4.279	3.858	3.716
22	Trigger Pull 9	4.249	3.88	3.676
23	Trigger Pull 10	4.296	3.949	3.684
24	Average:	4.297	3.955	3.761
25	SD:	0.053	0.075	0.076

	A	B	C	D	E	F	G	H	I
1		**A1**	**A6**	**A11**	A16	A17	A18	A20	**A20 unable to colect data due to computer malfunction**
2	Engagement 1	0.0205	0.0204	0.0215	0.0202	0.0192	0.0203		
3	Engagement 2	0.0203	0.0204	0.0214	0.0204	0.0199	0.0195		
4	Engagement 3	0.0202	0.0203	0.0214	0.0208	0.0197	0.0193		
5	Average:	0.0203	0.0204	0.0214	0.0205	0.0196	0.0197	#DIV/0!	
6	SD:	0.0002	0.0001	0.0001	0.0003	0.0004	0.0005	#DIV/0!	
7									
8	TMIS 1	0.004	0.003	0.006	0.005	0.005	0.007		
9	TMIS 2	0.004	0.003	0.005	0.004	0.004	0.007		
10	TMIS 3	0.004	0.003	0.006	0.004	0.004	0.007		
11	Average:	0.0040	0.0030	0.0057	0.0043	0.0043	0.0070	#DIV/0!	
12	SD:	0.0000	0.0000	0.0006	0.0006	0.0006	0.0000	#DIV/0!	
13	**Test**								
14	Trigger Pull 1	3.923	4.058	3.478	3.538	3.635	3.653		
15	Trigger Pull 2	4.024	4.115	3.464	3.715	3.52	3.661		
16	Trigger Pull 3	4.127	3.968	3.469	3.631	3.541	3.619		
17	Trigger Pull 4	4.072	4.088	3.420	3.556	3.531	3.673		
18	Trigger Pull 5	4.069	3.989	3.515	3.601	3.418	3.626		
19	Trigger Pull 6	4.107	4.045	3.472	3.447	3.48	3.584		
20	Trigger Pull 7	3.927	4.047	3.493	3.66	3.434	3.597		
21	Trigger Pull 8	4.17	4.043	3.578	3.523	3.571	3.639		
22	Trigger Pull 9	3.949	4.076	3.467	3.595	3.569	3.631		
23	Trigger Pull 10	3.986	4.112	3.504	3.57	3.501	3.656		
24	Average:	4.035	4.054	3.486	3.584	3.520	3.634	#DIV/0!	
25	SD:	0.087	0.048	0.041	0.075	0.065	0.028	#DIV/0!	
26	Sear Lift	0.010	0.011	0.012					

Cell: E1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: F1
Comment: metrology1:
for dry cycle on receiver S7607332

Cell: G1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: H1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D	E	F
1		A16	A17	A18	A20	**A20 unable to collect data due to computer malfunction**
2	Engagement 1	0.0221	0.0194	0.0220		
3	Engagement 2	0.0219	0.0195	0.0220		
4	Engagement 3	0.0220	0.0200	0.0219		
5	Average:	0.0220	0.0196	0.0220	#DIV/0!	
6	SD:	0.0001	0.0003	0.0001	#DIV/0!	
7						
8	TMIS 1	0.004	0.004	0.007		
9	TMIS 2	0.003	0.004	0.006		
10	TMIS 3	0.003	0.004	0.007		
11	Average:	0.0033	0.0040	0.0067	#DIV/0!	
12	SD:	0.0006	0.0000	0.0006	#DIV/0!	
13	**Test**					
14	Trigger Pull 1	3.304	3.173	3.574		
15	Trigger Pull 2	3.206	3.057	3.657		
16	Trigger Pull 3	3.196	3.097	3.588		
17	Trigger Pull 4	3.239	3.045	3.552		
18	Trigger Pull 5	3.245	3.159	3.570		
19	Trigger Pull 6	3.307	3.107	3.648		
20	Trigger Pull 7	3.319	3.146	3.648		
21	Trigger Pull 8	3.314	3.282	3.627		
22	Trigger Pull 9	3.186	3.147	3.642		
23	Trigger Pull 10	3.291	3.396	3.682		
24	Average:	3.261	3.161	3.619	#DIV/0!	
25	SD:	0.052	0.106	0.044	#DIV/0!	

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7607332

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: E1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D	E
1		A16	A17	A18	A20
2	Engagement 1	0.0220	0.0204	0.0218	0.0212
3	Engagement 2	0.0221	0.0205	0.0219	0.0212
4	Engagement 3	0.0222	0.0204	0.0218	0.0211
5	Average:	0.0221	0.0204	0.0218	0.0212
6	SD:	0.0001	0.0001	0.0001	0.0001
7					
8	TMIS 1	0.004	0.005	0.004	0.005
9	TMIS 2	0.004	0.005	0.004	0.004
10	TMIS 3	0.004	0.005	0.004	0.004
11	Average:	0.0040	0.0050	0.0040	0.0043
12	SD:	0.0000	0.0000	0.0000	0.0006
13	**Test**				
14	Trigger Pull 1	3.227	3.453	3.682	3.4
15	Trigger Pull 2	3.228	3.439	3.703	3.376
16	Trigger Pull 3	3.134	3.328	3.561	3.22
17	Trigger Pull 4	3.231	3.346	3.578	3.403
18	Trigger Pull 5	3.167	3.353	3.603	3.316
19	Trigger Pull 6	3.139	3.358	3.681	3.248
20	Trigger Pull 7	3.188	3.376	3.576	3.381
21	Trigger Pull 8	3.185	3.433	3.669	3.296
22	Trigger Pull 9	3.228	3.445	3.532	3.331
23	Trigger Pull 10	3.191	3.426	3.612	3.226
24	Average:	3.192	3.396	3.620	3.320
25	SD:	0.037	0.048	0.060	0.071

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7607332

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: E1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		A16	A18	A20
2	Engagement 1	0.0219	0.0217	0.0216
3	Engagement 2	0.0216	0.0220	0.0213
4	Engagement 3	0.0214	0.0220	0.0212
5	Average:	0.0216	0.0219	0.0214
6	SD:	0.0003	0.0002	0.0002
7				
8	TMIS 1	0.003	0.008	0.004
9	TMIS 2	0.003	0.008	0.004
10	TMIS 3	0.003	0.009	0.004
11	Average:	0.0030	0.0083	0.0040
12	SD:	0.0000	0.0006	0.0000
13	**Test**			
14	Trigger Pull 1	3.189	3.507	3.12
15	Trigger Pull 2	3.185	3.539	3.186
16	Trigger Pull 3	3.255	3.4	3.133
17	Trigger Pull 4	3.278	3.401	3.196
18	Trigger Pull 5	3.235	3.486	3.218
19	Trigger Pull 6	3.264	3.409	3.164
20	Trigger Pull 7	3.278	3.425	3.174
21	Trigger Pull 8	3.384	3.454	3.007
22	Trigger Pull 9	3.421	3.435	3.062
23	Trigger Pull 10	3.209	3.402	3.083
24	Average:	3.270	3.446	3.134
25	SD:	0.078	0.049	0.067

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		A16	A18	A20
2	Engagement 1	0.0219	0.0222	0.0211
3	Engagement 2	0.0218	0.0222	0.0211
4	Engagement 3	0.0217	0.0222	0.0210
5	Average:	0.0218	0.0222	0.0211
6	SD:	0.0001	0.0000	0.0001
7				
8	TMIS 1	0.005	0.009	0.005
9	TMIS 2	0.004	0.009	0.004
10	TMIS 3	0.004	0.009	0.005
11	Average:	0.0043	0.0090	0.0047
12	SD:	0.0006	0.0000	0.0006
13	**Test**			
14	Trigger Pull 1	3.141	3.608	3.236
15	Trigger Pull 2	2.896	3.555	3.246
16	Trigger Pull 3	2.845	3.553	3.391
17	Trigger Pull 4	2.948	3.558	3.185
18	Trigger Pull 5	2.95	3.56	3.241
19	Trigger Pull 6	2.92	3.572	3.223
20	Trigger Pull 7	2.899	3.615	3.269
21	Trigger Pull 8	2.953	3.585	3.241
22	Trigger Pull 9	2.903	3.573	3.212
23	Trigger Pull 10	2.874	3.559	3.345
24	Average:	2.933	3.574	3.259
25	SD:	0.081	0.022	0.063

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		A16	A18	A20
2	Engagement 1	0.0214	0.0223	0.0221
3	Engagement 2	0.0213	0.0221	0.0202
4	Engagement 3	0.0213	0.0219	0.0222
5	Average:	0.0213	0.0221	0.0215
6	SD:	0.0001	0.0002	0.0011
7				
8	TMIS 1	0.004	0.009	0.004
9	TMIS 2	0.004	0.009	0.004
10	TMIS 3	0.004	0.010	0.005
11	Average:	0.0040	0.0093	0.0043
12	SD:	0.0000	0.0006	0.0006
13	**Test**			
14	Trigger Pull 1	2.988	3.414	3.092
15	Trigger Pull 2	2.999	3.408	3.197
16	Trigger Pull 3	2.871	3.353	3.134
17	Trigger Pull 4	2.838	3.351	3.124
18	Trigger Pull 5	2.838	3.439	3.164
19	Trigger Pull 6	2.951	3.442	3.159
20	Trigger Pull 7	2.999	3.369	3.189
21	Trigger Pull 8	3.004	3.389	3.142
22	Trigger Pull 9	2.926	3.372	3.166
23	Trigger Pull 10	2.973	3.471	3.149
24	Average:	2.939	3.401	3.152
25	SD:	0.067	0.041	0.031

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		A16	A18	A20
2	Engagement 1	0.0215	0.0219	0.0219
3	Engagement 2	0.0212	0.0218	0.0219
4	Engagement 3	0.0213	0.0217	0.0217
5	Average:	0.0213	0.0218	0.0218
6	SD:	0.0002	0.0001	0.0001
7				
8	TMIS 1	0.004	0.009	0.005
9	TMIS 2	0.004	0.008	0.004
10	TMIS 3	0.004	0.009	0.004
11	Average:	0.0040	0.0087	0.0043
12	SD:	0.0000	0.0006	0.0006
13	**Test**			
14	Trigger Pull 1	3.101	3.524	3.279
15	Trigger Pull 2	3.023	3.481	3.218
16	Trigger Pull 3	2.953	3.477	3.200
17	Trigger Pull 4	3.009	3.446	3.254
18	Trigger Pull 5	2.982	3.591	3.231
19	Trigger Pull 6	3.009	3.463	3.253
20	Trigger Pull 7	2.980	3.309	3.337
21	Trigger Pull 8	2.985	3.493	3.265
22	Trigger Pull 9	3.020	3.500	3.296
23	Trigger Pull 10	2.988	3.436	3.297
24	Average:	3.005	3.472	3.263
25	SD:	0.040	0.072	0.041

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		A16	A18	A20
2	Engagement 1	0.0219	0.0220	0.0219
3	Engagement 2	0.0219	0.0222	0.0217
4	Engagement 3	0.0218	0.0220	0.0216
5	Average:	0.0219	0.0221	0.0217
6	SD:	0.0001	0.0001	0.0002
7				
8	TMIS 1	0.005	0.009	0.005
9	TMIS 2	0.004	0.009	0.005
10	TMIS 3	0.004	0.009	0.005
11	Average:	0.0043	0.0090	0.0050
12	SD:	0.0006	0.0000	0.0000
13	**Test**			
14	Trigger Pull 1	3.32	3.487	3.324
15	Trigger Pull 2	3.324	3.442	3.399
16	Trigger Pull 3	3.358	3.413	3.449
17	Trigger Pull 4	3.204	3.439	3.427
18	Trigger Pull 5	3.255	3.414	3.602
19	Trigger Pull 6	3.166	3.414	3.453
20	Trigger Pull 7	3.258	3.387	3.466
21	Trigger Pull 8	3.308	3.447	3.38
22	Trigger Pull 9	3.253	3.479	3.629
23	Trigger Pull 10	3.295	3.484	3.68
24	Average:	3.274	3.441	3.481
25	SD:	0.059	0.034	0.117

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		A16	A18	A20
2	Engagement 1	0.0215	0.0213	0.0217
3	Engagement 2	0.0213	0.0212	0.0216
4	Engagement 3	0.0214	0.0215	0.0217
5	Average:	0.0214	0.0213	0.0217
6	SD:	0.0001	0.0002	0.0001
7				
8	TMIS 1	0.005	0.005	0.005
9	TMIS 2	0.004	0.004	0.006
10	TMIS 3	0.005	0.004	0.005
11	Average:	0.0047	0.0043	0.0055
12	SD:	0.0006	0.0006	0.0005
13	**Test**			
14	Trigger Pull 1	3.344	3.542	3.502
15	Trigger Pull 2	3.255	3.598	3.53
16	Trigger Pull 3	3.286	3.56	3.433
17	Trigger Pull 4	3.251	3.561	3.499
18	Trigger Pull 5	3.196	3.373	3.584
19	Trigger Pull 6	3.214	3.509	3.516
20	Trigger Pull 7	3.186	3.485	3.504
21	Trigger Pull 8	3.185	3.511	3.61
22	Trigger Pull 9	3.207	3.453	3.493
23	Trigger Pull 10	3.133	3.42	3.59
24	Average:	3.226	3.501	3.526
25	SD:	0.060	0.070	0.054

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.291	0.023	0	0.032	0.054	
5			2	3.51	0.023	0	0.032	0.057	
6			3	3.449	0.022	0	0.032	0.054	
7			4	3.456	0.022	0	0.032	0.056	
8			5	3.383	0.023	0	0.031	0.055	
9			6	4.039	0.021	0	0.031	0.06	
10			7	3.387	0.022	0	0.032	0.053	
11			8	3.614	0.021	0	0.032	0.055	
12			9	3.498	0.021	0	0.032	0.053	
13			10	4.379	0.023	0	0.031	0.068	
14			Avg:	3.601	0.022	0	0.032	0.057	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.601	0.022	0	0.032	0.057	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A3 MIN-2								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.998	0.019	0	0.028	0.072	
5			2	6.082	0.021	0	0.028	0.08	
6			3	6.003	0.018	0	0.028	0.07	
7			4	6.072	0.019	0	0.028	0.071	
8			5	6.192	0.022	0	0.027	0.085	
9			6	6.09	0.021	0	0.027	0.081	
10			7	6.084	0.018	0	0.027	0.071	
11			8	6.035	0.019	0	0.027	0.075	
12			9	6.061	0.022	0	0.027	0.085	
13			10	6.084	0.018	0	0.027	0.07	
14			Avg:	6.07	0.02	0	0.027	0.076	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.07	0.02	0	0.027	0.076	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.58	0.015	0	0.035	0.029	
5			2	2.628	0.015	0	0.035	0.029	
6			3	2.597	0.014	0	0.035	0.027	
7			4	2.603	0.016	0	0.035	0.03	
8			5	2.805	0.014	0	0.035	0.029	
9			6	2.599	0.015	0	0.035	0.028	
10			7	2.523	0.017	0	0.035	0.029	
11			8	2.596	0.016	0	0.035	0.029	
12			9	2.591	0.015	0	0.035	0.027	
13			10	2.836	0.015	0	0.035	0.031	
14			Avg:	2.636	0.015	0	0.035	0.029	0.00 ms
15									
16	XR100 DAT								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18				[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1						
20			2						
21			3						
22			4						
23			5						
24			6						
25			7						
26			8						
27			9						
28			10						
29			Avg:	0	0	0	0	0	0.00 ms
30									
31	XR100 DATA A1 XMP1								
32	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
33	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
34	Single Action		1	6.701	0.02	0	0.017	0.085	
35			2	6.622	0.019	0	0.019	0.077	
36			3	6.388	0.018	0	0.028	0.074	
37			4	6.409	0.02	0	0.027	0.079	
38			5	6.295	0.019	0	0.028	0.076	
39			6	6.62	0.021	0	0.021	0.088	
40			7	6.388	0.021	0	0.028	0.083	
41			8	6.538	0.02	0	0.028	0.083	
42			9	6.531	0.022	0	0.022	0.09	

	A	B	C	D	E	F	G	H	I
43			10	6.32	0.018	0	0.028	0.073	
44			Avg:	6.481	0.02	0	0.025	0.081	0.00 ms
45									
46									
47	TOTAL AVG								
48	Single Action			3.039	0.012	0	0.02	0.037	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A3 MIN-2								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.445	0.015	0	0.035	0.026	
5			2	2.592	0.014	0	0.035	0.025	
6			3	2.538	0.015	0	0.035	0.027	
7			4	2.577	0.016	0	0.035	0.028	
8			5	2.515	0.014	0	0.035	0.024	
9			6	2.431	0.016	0	0.035	0.027	
10			7	2.571	0.014	0	0.035	0.025	
11			8	2.543	0.014	0	0.035	0.024	
12			9	2.577	0.014	0	0.035	0.024	
13			10	2.531	0.014	0	0.035	0.024	
14			Avg:	2.532	0.015	0	0.035	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.532	0.015	0	0.035	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.58	0.015	0	0.035	0.029	
5			2	2.628	0.015	0	0.035	0.029	
6			3	2.597	0.014	0	0.035	0.027	
7			4	2.603	0.016	0	0.035	0.03	
8			5	2.805	0.014	0	0.035	0.029	
9			6	2.599	0.015	0	0.035	0.028	
10			7	2.523	0.017	0	0.035	0.029	
11			8	2.596	0.016	0	0.035	0.029	
12			9	2.591	0.015	0	0.035	0.027	
13			10	2.836	0.015	0	0.035	0.031	
14			Avg:	2.636	0.015	0	0.035	0.029	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.722	0.015	0	0.039	0.035	
5			2	3.652	0.015	0	0.04	0.034	
6			3	3.647	0.018	0	0.039	0.04	
7			4	3.566	0.015	0	0.039	0.034	
8			5	3.484	0.015	0	0.039	0.033	
9			6	3.597	0.016	0	0.04	0.035	
10			7	3.618	0.015	0	0.04	0.034	
11			8	3.601	0.017	0	0.04	0.038	
12			9	3.601	0.018	0	0.039	0.04	
13			10	3.577	0.015	0	0.039	0.034	
14			Avg:	3.607	0.016	0	0.039	0.036	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.607	0.016	0	0.039	0.036	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.728	0.02	0	0.034	0.045	
5			2	3.728	0.02	0	0.033	0.046	
6			3	3.677	0.02	0	0.034	0.046	
7			4	3.715	0.019	0	0.034	0.044	
8			5	3.763	0.021	0	0.033	0.049	
9			6	3.751	0.018	0	0.034	0.043	
10			7	3.713	0.019	0	0.034	0.045	
11			8	3.717	0.018	0	0.034	0.043	
12			9	3.653	0.018	0	0.034	0.043	
13			10	3.512	0.019	0	0.034	0.044	
14			Avg:	3.696	0.019	0	0.034	0.045	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.696	0.019	0	0.034	0.045	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.061	0.019	0	0.029	0.071	
5			2	5.962	0.018	0	0.029	0.066	
6			3	5.83	0.019	0	0.029	0.069	
7			4	5.898	0.018	0	0.029	0.065	
8			5	5.878	0.017	0	0.029	0.065	
9			6	5.947	0.02	0	0.029	0.074	
10			7	5.982	0.018	0	0.029	0.068	
11			8	5.986	0.021	0	0.029	0.079	
12			9	5.982	0.019	0	0.029	0.073	
13			10	6.099	0.02	0	0.029	0.076	
14			Avg:	5.963	0.019	0	0.029	0.071	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.963	0.019	0	0.029	0.071	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.526	0.014	0	0.038	0.025	
5			2	2.492	0.014	0	0.037	0.025	
6			3	2.499	0.015	0	0.037	0.027	
7			4	2.526	0.014	0	0.038	0.024	
8			5	2.581	0.015	0	0.037	0.026	
9			6	2.561	0.014	0	0.039	0.025	
10			7	2.571	0.015	0	0.037	0.026	
11			8	2.482	0.014	0	0.038	0.024	
12			9	2.583	0.015	0	0.037	0.026	
13			10	2.482	0.015	0	0.037	0.026	
14			Avg:	2.53	0.015	0	0.038	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.53	0.015	0	0.038	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.308	0.017	0	0.039	0.039	
5			2	3.384	0.018	0	0.039	0.04	
6			3	3.318	0.016	0	0.039	0.035	
7			4	3.358	0.016	0	0.039	0.036	
8			5	3.347	0.018	0	0.039	0.04	
9			6	3.416	0.018	0	0.04	0.04	
10			7	3.256	0.016	0	0.038	0.036	
11			8	3.374	0.018	0	0.039	0.04	
12			9	3.336	0.017	0	0.038	0.038	
13			10	3.324	0.016	0	0.039	0.036	
14			Avg:	3.342	0.017	0	0.039	0.038	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.342	0.017	0	0.039	0.038	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.999	0.025	0	0.029	0.056	
5			2	3.027	0.023	0	0.029	0.053	
6			3	2.794	0.023	0	0.028	0.053	
7			4	2.885	0.024	0	0.028	0.055	
8			5	2.905	0.023	0	0.028	0.051	
9			6	2.976	0.023	0	0.029	0.052	
10			7	3.034	0.024	0	0.028	0.057	
11			8	2.852	0.022	0	0.028	0.05	
12			9	2.86	0.022	0	0.028	0.049	
13			10	3.82	0.021	0	0.027	0.059	
14			Avg:	3.015	0.023	0	0.028	0.054	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.015	0.023	0	0.028	0.054	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A11 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.366	0.02	0	0.03	0.078	
5			2	6.357	0.019	0	0.029	0.076	
6			3	6.461	0.02	0	0.029	0.08	
7			4	6.638	0.022	0	0.029	0.089	
8			5	6.332	0.023	0	0.029	0.091	
9			6	6.338	0.022	0	0.029	0.089	
10			7	6.488	0.022	0	0.029	0.088	
11			8	6.304	0.019	0	0.03	0.076	
12			9	6.479	0.019	0	0.029	0.075	
13			10	6.396	0.019	0	0.029	0.076	
14			Avg:	6.416	0.021	0	0.029	0.082	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.416	0.021	0	0.029	0.082	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A11 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.541	0.014	0	0.041	0.025	
5			2	2.489	0.015	0	0.04	0.025	
6			3	2.555	0.014	0	0.042	0.025	
7			4	2.601	0.014	0	0.041	0.025	
8			5	2.58	0.014	0	0.041	0.025	
9			6	2.534	0.016	0	0.041	0.027	
10			7	2.588	0.015	0	0.041	0.026	
11			8	2.542	0.014	0	0.041	0.025	
12			9	2.593	0.014	0	0.041	0.025	
13			10	2.543	0.014	0	0.041	0.025	
14			Avg:	2.557	0.014	0	0.041	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.557	0.014	0	0.041	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.645	0.016	0	0.041	0.038	
5			2	3.574	0.016	0	0.042	0.038	
6			3	3.589	0.018	0	0.042	0.043	
7			4	3.526	0.016	0	0.043	0.038	
8			5	3.498	0.017	0	0.042	0.038	
9			6	3.557	0.018	0	0.042	0.042	
10			7	3.499	0.018	0	0.042	0.041	
11			8	3.467	0.018	0	0.041	0.04	
12			9	3.503	0.016	0	0.042	0.036	
13			10	3.51	0.018	0	0.042	0.041	
14			Avg:	3.537	0.017	0	0.042	0.04	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.537	0.017	0	0.042	0.04	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A11 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.969	0.03	0	0.025	0.081	
5			2	4.151	0.028	0	0.027	0.079	
6			3	3.928	0.029	0	0.027	0.077	
7			4	4.161	0.028	0	0.026	0.079	
8			5	4.11	0.028	0	0.026	0.079	
9			6	4.087	0.028	0	0.028	0.077	
10			7	4.106	0.029	0	0.025	0.081	
11			8	4.136	0.028	0	0.027	0.079	
12			9	3.966	0.029	0	0.026	0.079	
13			10	4.07	0.028	0	0.026	0.078	
14			Avg:	4.068	0.029	0	0.026	0.079	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.068	0.029	0	0.026	0.079	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.339	0.02	0	0.029	0.082	
5			2	6.384	0.023	0	0.023	0.096	
6			3	6.494	0.021	0	0.021	0.087	
7			4	6.366	0.023	0	0.023	0.094	
8			5	6.401	0.021	0	0.021	0.089	
9			6	6.266	0.02	0	0.029	0.083	
10			7	6.234	0.025	0	0.025	0.1	
11			8	6.3	0.02	0	0.029	0.082	
12			9	6.345	0.021	0	0.021	0.087	
13			10	6.277	0.02	0	0.029	0.083	
14			Avg:	6.341	0.021	0	0.025	0.088	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.341	0.021	0	0.025	0.088	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.634	0.017	0	0.037	0.032	
5			2	2.513	0.017	0	0.037	0.031	
6			3	2.608	0.016	0	0.038	0.029	
7			4	2.472	0.018	0	0.038	0.031	
8			5	2.55	0.018	0	0.038	0.032	
9			6	2.496	0.016	0	0.038	0.028	
10			7	2.516	0.017	0	0.038	0.031	
11			8	2.64	0.018	0	0.038	0.033	
12			9	2.494	0.016	0	0.038	0.03	
13			10	2.588	0.018	0	0.037	0.033	
14			Avg:	2.551	0.017	0	0.038	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.551	0.017	0	0.038	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.463	0.017	0	0.038	0.042	
5			2	3.474	0.017	0	0.038	0.042	
6			3	3.465	0.017	0	0.038	0.042	
7			4	3.529	0.019	0	0.038	0.046	
8			5	3.493	0.017	0	0.038	0.042	
9			6	3.531	0.017	0	0.038	0.042	
10			7	3.562	0.02	0	0.038	0.048	
11			8	3.489	0.017	0	0.038	0.042	
12			9	3.412	0.018	0	0.038	0.042	
13			10	3.569	0.018	0	0.037	0.045	
14			Avg:	3.499	0.018	0	0.038	0.043	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.499	0.018	0	0.038	0.043	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.632	0.019	0	0.029	0.065	
5			2	5.62	0.019	0	0.029	0.066	
6			3	5.685	0.018	0	0.028	0.064	
7			4	5.691	0.018	0	0.028	0.065	
8			5	5.596	0.022	0	0.028	0.077	
9			6	5.712	0.018	0	0.029	0.064	
10			7	5.662	0.021	0	0.028	0.075	
11			8	5.615	0.017	0	0.028	0.062	
12			9	5.599	0.017	0	0.028	0.061	
13			10	5.667	0.02	0	0.028	0.071	
14			Avg:	5.648	0.019	0	0.028	0.067	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.648	0.019	0	0.028	0.067	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.524	0.014	0	0.039	0.025	
5			2	2.51	0.014	0	0.038	0.025	
6			3	2.535	0.014	0	0.039	0.024	
7			4	2.575	0.013	0	0.038	0.024	
8			5	2.528	0.013	0	0.039	0.023	
9			6	2.541	0.014	0	0.039	0.025	
10			7	2.623	0.015	0	0.038	0.027	
11			8	2.628	0.014	0	0.039	0.026	
12			9	2.544	0.014	0	0.038	0.025	
13			10	2.559	0.015	0	0.038	0.027	
14			Avg:	2.557	0.014	0	0.039	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.557	0.014	0	0.039	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.693	0.017	0	0.041	0.042	
5			2	3.736	0.018	0	0.04	0.043	
6			3	3.709	0.02	0	0.04	0.046	
7			4	3.747	0.019	0	0.039	0.047	
8			5	3.71	0.017	0	0.041	0.041	
9			6	3.67	0.017	0	0.041	0.042	
10			7	3.682	0.017	0	0.041	0.04	
11			8	3.689	0.017	0	0.041	0.04	
12			9	3.687	0.017	0	0.04	0.041	
13			10	3.642	0.018	0	0.04	0.044	
14			Avg:	3.697	0.018	0	0.04	0.043	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.697	0.018	0	0.04	0.043	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.75	0.021	0	0.029	0.056	
5			2	3.831	0.022	0	0.03	0.057	
6			3	3.628	0.022	0	0.029	0.056	
7			4	3.752	0.02	0	0.03	0.051	
8			5	3.869	0.022	0	0.029	0.057	
9			6	3.474	0.02	0	0.03	0.049	
10			7	4.077	0.021	0	0.03	0.059	
11			8	3.717	0.023	0	0.029	0.058	
12			9	3.552	0.021	0	0.029	0.051	
13			10	3.605	0.02	0	0.029	0.051	
14			Avg:	3.726	0.021	0	0.029	0.055	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.726	0.021	0	0.029	0.055	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A13 MAX								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.061	0.022	0	0.031	0.089	
5			2	6.181	0.022	0.005	0.031	0.089	
6			3	6.053	0.026	0	0.032	0.102	
7			4	6.409	0.022	0	0.031	0.094	
8			5	6.054	0.022	0	0.031	0.09	
9			6	6.018	0.025	0	0.032	0.098	
10			7	6.199	0.023	0	0.031	0.094	
11			8	6.296	0.026	0	0.031	0.107	
12			9	6.267	0.023	0	0.031	0.092	
13			10	6.094	0.023	0	0.032	0.093	
14			Avg:	6.163	0.023	0.001	0.031	0.095	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.163	0.023	0.001	0.031	0.095	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.588	0.018	0	0.04	0.031	
5			2	2.52	0.018	0	0.04	0.031	
6			3	2.504	0.018	0	0.041	0.03	
7			4	2.588	0.017	0	0.04	0.029	
8			5	2.51	0.017	0	0.041	0.028	
9			6	2.596	0.017	0	0.041	0.029	
10			7	2.546	0.018	0	0.041	0.031	
11			8	2.449	0.016	0	0.041	0.028	
12			9	2.533	0.017	0	0.04	0.03	
13			10	2.533	0.017	0	0.041	0.029	
14			Avg:	2.537	0.017	0	0.041	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.537	0.017	0	0.041	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.513	0.02	0	0.043	0.051	
5			2	3.515	0.02	0	0.043	0.05	
6			3	3.494	0.02	0	0.043	0.05	
7			4	3.547	0.02	0	0.043	0.051	
8			5	3.467	0.02	0	0.043	0.051	
9			6	3.488	0.022	0	0.043	0.054	
10			7	3.536	0.02	0	0.043	0.052	
11			8	3.497	0.022	0	0.043	0.055	
12			9	3.621	0.02	0	0.043	0.051	
13			10	3.58	0.02	0	0.043	0.051	
14			Avg:	3.526	0.02	0	0.043	0.052	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.526	0.02	0	0.043	0.052	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.154	0.024	0.009	0.033	0.052	
5			2	3.326	0.025	0.011	0.032	0.056	
6			3	3.052	0.024	0.009	0.032	0.05	
7			4	3.275	0.024	0.009	0.033	0.055	
8			5	3.186	0.024	0.009	0.033	0.053	
9			6	3.128	0.025	0.009	0.032	0.054	
10			7	3.299	0.024	0	0.032	0.056	
11			8	3.149	0.026	0	0.032	0.057	
12			9	3.059	0.024	0.009	0.032	0.052	
13			10	2.783	0.024	0	0.033	0.048	
14			Avg:	3.141	0.024	0.007	0.032	0.053	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.141	0.024	0.007	0.032	0.053	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A14 MAX								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.364	0.022	0	0.027	0.088	
5			2	6.393	0.02	0	0.027	0.079	
6			3	6.401	0.018	0	0.027	0.073	
7			4	6.405	0.019	0	0.027	0.076	
8			5	6.421	0.019	0	0.027	0.075	
9			6	6.311	0.018	0	0.027	0.073	
10			7	6.331	0.018	0	0.027	0.073	
11			8	6.368	0.021	0	0.027	0.084	
12			9	6.374	0.019	0	0.027	0.077	
13			10	6.39	0.019	0	0.027	0.075	
14			Avg:	6.376	0.019	0	0.027	0.077	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.376	0.019	0	0.027	0.077	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.466	0.016	0	0.04	0.028	
5			2	2.583	0.016	0	0.039	0.029	
6			3	2.577	0.015	0	0.039	0.027	
7			4	2.542	0.015	0	0.04	0.028	
8			5	2.533	0.016	0	0.039	0.029	
9			6	2.676	0.017	0	0.039	0.031	
10			7	2.466	0.015	0	0.039	0.026	
11			8	2.564	0.017	0	0.039	0.03	
12			9	2.597	0.015	0	0.04	0.027	
13			10	2.558	0.015	0	0.039	0.027	
14			Avg:	2.556	0.016	0	0.039	0.028	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.556	0.016	0	0.039	0.028	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.593	0.017	0.005	0.039	0.041	
5			2	3.436	0.016	0	0.039	0.04	
6			3	3.555	0.018	0	0.039	0.045	
7			4	3.638	0.017	0	0.039	0.042	
8			5	3.62	0.016	0	0.039	0.04	
9			6	3.553	0.017	0	0.039	0.041	
10			7	3.551	0.016	0	0.039	0.04	
11			8	3.518	0.016	0	0.039	0.041	
12			9	3.618	0.016	0	0.039	0.04	
13			10	3.545	0.017	0	0.039	0.041	
14			Avg:	3.563	0.017	0.001	0.039	0.041	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.563	0.017	0.001	0.039	0.041	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.827	0.022	0	0.028	0.058	
5			2	3.612	0.021	0	0.029	0.052	
6			3	3.575	0.022	0	0.029	0.053	
7			4	4.121	0.021	0	0.029	0.06	
8			5	3.684	0.021	0	0.029	0.051	
9			6	3.716	0.022	0	0.029	0.055	
10			7	3.656	0.021	0	0.029	0.052	
11			8	3.58	0.021	0	0.029	0.049	
12			9	3.609	0.022	0	0.029	0.054	
13			10	3.477	0.022	0	0.029	0.053	
14			Avg:	3.686	0.022	0	0.029	0.054	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.686	0.022	0	0.029	0.054	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.82	0.018	0	0.033	0.069	
5			2	5.782	0.018	0	0.033	0.066	
6			3	5.892	0.018	0	0.033	0.071	
7			4	5.855	0.019	0	0.033	0.071	
8			5	5.62	0.018	0	0.033	0.064	
9			6	5.887	0.019	0	0.033	0.071	
10			7	5.836	0.019	0	0.033	0.07	
11			8	5.793	0.019	0	0.033	0.069	
12			9	5.529	0.021	0	0.033	0.075	
13			10	5.499	0.018	0	0.033	0.063	
14			Avg:	5.751	0.019	0	0.033	0.069	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.751	0.019	0	0.033	0.069	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.488	0.016	0	0.042	0.028	
5			2	2.445	0.016	0	0.043	0.027	
6			3	2.511	0.017	0	0.043	0.03	
7			4	2.56	0.015	0	0.043	0.027	
8			5	2.496	0.017	0	0.042	0.03	
9			6	2.578	0.017	0	0.043	0.03	
10			7	2.468	0.015	0	0.042	0.027	
11			8	2.61	0.016	0	0.043	0.029	
12			9	2.45	0.015	0	0.043	0.025	
13			10	2.544	0.015	0	0.043	0.027	
14			Avg:	2.515	0.016	0	0.043	0.028	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.515	0.016	0	0.043	0.028	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.527	0.018	0	0.043	0.043	
5			2	3.55	0.017	0	0.044	0.04	
6			3	3.61	0.017	0	0.044	0.042	
7			4	3.57	0.016	0	0.043	0.04	
8			5	3.55	0.016	0	0.044	0.04	
9			6	3.595	0.017	0	0.043	0.041	
10			7	3.589	0.018	0	0.043	0.044	
11			8	3.601	0.018	0	0.042	0.044	
12			9	3.581	0.019	0	0.043	0.045	
13			10	3.63	0.019	0	0.043	0.047	
14			Avg:	3.58	0.018	0	0.043	0.043	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.58	0.018	0	0.043	0.043	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.517	0.016	0.004	0.031	0.058	
5			2	5.514	0.017	0	0.031	0.062	
6			3	5.537	0.018	0.005	0.031	0.063	
7			4	5.499	0.016	0.005	0.031	0.058	
8			5	5.532	0.016	0.004	0.031	0.058	
9			6	5.531	0.019	0	0.031	0.067	
10			7	5.528	0.017	0	0.031	0.059	
11			8	5.508	0.017	0	0.031	0.061	
12			9	5.506	0.016	0.004	0.031	0.058	
13			10	5.52	0.016	0.005	0.031	0.058	
14			Avg:	5.519	0.017	0.003	0.031	0.06	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.519	0.017	0.003	0.031	0.06	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.52	0.014	0	0.039	0.026	
5			2	2.469	0.013	0	0.04	0.024	
6			3	2.432	0.015	0	0.04	0.026	
7			4	2.515	0.013	0	0.04	0.024	
8			5	2.542	0.014	0	0.04	0.026	
9			6	2.572	0.015	0	0.04	0.028	
10			7	2.549	0.013	0	0.04	0.024	
11			8	2.575	0.013	0	0.04	0.024	
12			9	2.518	0.013	0	0.04	0.024	
13			10	2.485	0.012	0	0.04	0.023	
14			Avg:	2.518	0.014	0	0.04	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.518	0.014	0	0.04	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.023	0.014	0	0.04	0.029	
5			2	3.08	0.016	0	0.04	0.034	
6			3	3.069	0.017	0	0.04	0.035	
7			4	3.1	0.014	0	0.041	0.03	
8			5	3.084	0.016	0	0.04	0.033	
9			6	3.042	0.016	0	0.04	0.033	
10			7	3.02	0.014	0	0.04	0.029	
11			8	3.033	0.016	0	0.04	0.032	
12			9	3.023	0.015	0	0.04	0.031	
13			10	3.074	0.015	0	0.041	0.03	
14			Avg:	3.055	0.015	0	0.04	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.055	0.015	0	0.04	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.852	0.02	0	0.033	0.076	
5			2	5.905	0.017	0	0.033	0.065	
6			3	5.851	0.017	0	0.033	0.064	
7			4	5.806	0.018	0	0.033	0.066	
8			5	5.9	0.018	0	0.033	0.067	
9			6	5.915	0.02	0	0.033	0.075	
10			7	5.836	0.017	0	0.034	0.062	
11			8	5.742	0.017	0	0.034	0.062	
12			9	5.931	0.017	0	0.033	0.062	
13			10	5.812	0.017	0	0.034	0.063	
14			Avg:	5.855	0.018	0	0.033	0.066	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.855	0.018	0	0.033	0.066	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.6	0.016	0	0.045	0.028	
5			2	2.476	0.016	0	0.044	0.028	
6			3	2.434	0.014	0	0.045	0.025	
7			4	2.538	0.015	0	0.044	0.027	
8			5	2.548	0.015	0	0.045	0.028	
9			6	2.652	0.015	0	0.044	0.027	
10			7	2.659	0.014	0	0.044	0.027	
11			8	2.483	0.014	0	0.045	0.025	
12			9	2.572	0.015	0	0.045	0.026	
13			10	2.461	0.014	0	0.045	0.026	
14			Avg:	2.542	0.015	0	0.045	0.027	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.542	0.015	0	0.045	0.027	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.991	0.019	0	0.029	0.073	
5			2	6.026	0.023	0	0.029	0.087	
6			3	6.034	0.019	0	0.03	0.07	
7			4	6.038	0.019	0	0.029	0.072	
8			5	6.028	0.019	0	0.029	0.072	
9			6	6.038	0.022	0	0.029	0.083	
10			7	6.011	0.02	0	0.029	0.075	
11			8	6.004	0.019	0	0.029	0.07	
12			9	5.977	0.018	0	0.029	0.069	
13			10	6.004	0.019	0	0.029	0.07	
14			Avg:	6.015	0.02	0	0.029	0.074	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.015	0.02	0	0.029	0.074	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.569	0.014	0	0.039	0.025	
5			2	2.58	0.015	0	0.039	0.026	
6			3	2.657	0.017	0	0.04	0.03	
7			4	2.541	0.014	0	0.039	0.025	
8			5	2.605	0.015	0	0.039	0.026	
9			6	2.614	0.015	0	0.039	0.026	
10			7	2.55	0.015	0	0.039	0.026	
11			8	2.536	0.014	0	0.039	0.025	
12			9	2.553	0.015	0	0.038	0.027	
13			10	2.573	0.015	0	0.039	0.025	
14			Avg:	2.578	0.015	0	0.039	0.026	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.578	0.015	0	0.039	0.026	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.712	0.02	0	0.036	0.048	
5			2	3.678	0.017	0	0.037	0.04	
6			3	3.695	0.017	0	0.037	0.042	
7			4	3.709	0.019	0	0.037	0.044	
8			5	3.701	0.017	0	0.037	0.04	
9			6	3.797	0.017	0	0.037	0.042	
10			7	3.718	0.017	0	0.037	0.042	
11			8	3.785	0.017	0	0.037	0.041	
12			9	3.669	0.017	0	0.038	0.041	
13			10	3.71	0.019	0	0.037	0.046	
14			Avg:	3.717	0.018	0	0.037	0.043	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.717	0.018	0	0.037	0.043	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.274	0.018	0	0.031	0.071	
5			2	6.204	0.019	0	0.032	0.07	
6			3	6.296	0.018	0	0.031	0.072	
7			4	6.174	0.021	0	0.032	0.08	
8			5	6.291	0.017	0	0.031	0.066	
9			6	6.218	0.018	0	0.031	0.07	
10			7	6.064	0.017	0	0.031	0.067	
11			8	6.071	0.016	0	0.031	0.062	
12			9	6.435	0.016	0	0.031	0.065	
13			10	6.153	0.016	0	0.031	0.063	
14			Avg:	6.218	0.018	0	0.031	0.069	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.218	0.018	0	0.031	0.069	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.561	0.013	0	0.041	0.022	
5			2	2.607	0.013	0	0.042	0.023	
6			3	2.59	0.013	0	0.041	0.021	
7			4	2.511	0.013	0	0.042	0.021	
8			5	2.516	0.013	0	0.043	0.021	
9			6	2.655	0.013	0	0.042	0.022	
10			7	2.574	0.013	0	0.042	0.022	
11			8	2.457	0.014	0	0.042	0.023	
12			9	2.742	0.013	0	0.043	0.023	
13			10	2.658	0.013	0	0.043	0.023	
14			Avg:	2.587	0.013	0	0.042	0.022	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.587	0.013	0	0.042	0.022	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.699	0.018	0	0.032	0.064	
5			2	5.886	0.02	0	0.031	0.076	
6			3	5.671	0.021	0	0.032	0.076	
7			4	5.661	0.017	0	0.032	0.062	
8			5	5.515	0.017	0	0.032	0.061	
9			6	5.594	0.018	0	0.032	0.063	
10			7	5.503	0.02	0	0.032	0.07	
11			8	5.42	0.017	0	0.032	0.061	
12			9	6.054	0.017	0	0.032	0.066	
13			10	5.496	0.017	0	0.032	0.06	
14			Avg:	5.65	0.018	0	0.032	0.066	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.65	0.018	0	0.032	0.066	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.483	0.015	0	0.04	0.027	
5			2	2.506	0.015	0	0.041	0.026	
6			3	2.521	0.015	0	0.04	0.027	
7			4	2.475	0.015	0	0.041	0.026	
8			5	2.541	0.015	0	0.041	0.027	
9			6	2.526	0.015	0	0.041	0.026	
10			7	2.549	0.015	0	0.041	0.027	
11			8	2.516	0.015	0	0.04	0.027	
12			9	2.559	0.016	0	0.04	0.027	
13			10	2.436	0.015	0	0.04	0.026	
14			Avg:	2.511	0.015	0	0.041	0.027	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.511	0.015	0	0.041	0.027	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.437	0.016	0	0.04	0.037	
5			2	3.49	0.015	0	0.041	0.035	
6			3	3.488	0.016	0	0.04	0.037	
7			4	3.404	0.016	0	0.041	0.035	
8			5	3.473	0.017	0	0.041	0.039	
9			6	3.373	0.016	0	0.041	0.035	
10			7	3.46	0.017	0	0.04	0.039	
11			8	3.469	0.015	0	0.041	0.035	
12			9	3.418	0.016	0	0.04	0.037	
13			10	3.56	0.015	0	0.04	0.035	
14			Avg:	3.457	0.016	0	0.041	0.036	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.457	0.016	0	0.041	0.036	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.565	0.02	0	0.034	0.074	
5			2	5.604	0.022	0	0.034	0.081	
6			3	5.745	0.02	0	0.034	0.073	
7			4	5.701	0.021	0	0.034	0.078	
8			5	5.701	0.02	0	0.034	0.074	
9			6	5.857	0.02	0	0.034	0.075	
10			7	5.565	0.021	0	0.034	0.075	
11			8	5.78	0.02	0	0.034	0.074	
12			9	5.652	0.022	0	0.034	0.079	
13			10	5.745	0.022	0	0.034	0.081	
14			Avg:	5.692	0.021	0	0.034	0.076	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.692	0.021	0	0.034	0.076	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.605	0.017	0	0.042	0.031	
5			2	2.596	0.016	0	0.042	0.03	
6			3	2.645	0.018	0	0.042	0.033	
7			4	2.563	0.016	0	0.042	0.03	
8			5	2.611	0.016	0	0.042	0.029	
9			6	2.642	0.017	0	0.041	0.032	
10			7	2.418	0.016	0	0.042	0.028	
11			8	2.599	0.016	0	0.041	0.03	
12			9	2.601	0.016	0	0.042	0.03	
13			10	2.533	0.017	0	0.041	0.03	
14			Avg:	2.581	0.017	0	0.042	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.581	0.017	0	0.042	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.58	0.015	0	0.035	0.029	
5			2	2.628	0.015	0	0.035	0.029	
6			3	2.597	0.014	0	0.035	0.027	
7			4	2.603	0.016	0	0.035	0.03	
8			5	2.805	0.014	0	0.035	0.029	
9			6	2.599	0.015	0	0.035	0.028	
10			7	2.523	0.017	0	0.035	0.029	
11			8	2.596	0.016	0	0.035	0.029	
12			9	2.591	0.015	0	0.035	0.027	
13			10	2.836	0.015	0	0.035	0.031	
14			Avg:	2.636	0.015	0	0.035	0.029	0.00 ms
15									
16	XR100 DAT								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18				[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1						
20			2						
21			3						
22			4						
23			5						
24			6						
25			7						
26			8						
27			9						
28			10						
29			Avg:	0	0	0	0	0	0.00 ms
30									
31	XR100 DATA A1 XMP1								
32	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
33	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
34	Single Action		1	6.701	0.02	0	0.017	0.085	
35			2	6.622	0.019	0	0.019	0.077	
36			3	6.388	0.018	0	0.028	0.074	
37			4	6.409	0.02	0	0.027	0.079	
38			5	6.295	0.019	0	0.028	0.076	
39			6	6.62	0.021	0	0.021	0.088	
40			7	6.388	0.021	0	0.028	0.083	
41			8	6.538	0.02	0	0.028	0.083	
42			9	6.531	0.022	0	0.022	0.09	

	A	B	C	D	E	F	G	H	I
43			10	6.32	0.018	0	0.028	0.073	
44			Avg:	6.481	0.02	0	0.025	0.081	0.00 ms
45									
46	XR100 A2 Fac								
47	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
48	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
49	Single Action		1	2.962	0.027	0	0.026	0.059	
50			2	2.627	0.028	0	0.026	0.056	
51			3	2.661	0.028	0	0.026	0.057	
52			4	2.715	0.026	0	0.028	0.055	
53			5	2.637	0.027	0	0.025	0.055	
54			6	2.567	0.026	0	0.026	0.053	
55			7	3.02	0.026	0	0.029	0.058	
56			8	2.828	0.026	0	0.028	0.056	
57			9	2.636	0.027	0	0.029	0.054	
58			10	2.662	0.026	0	0.025	0.053	
59			Avg:	2.732	0.027	0	0.027	0.056	0.00 ms
60									
61									
62	TOTAL AVG								
63	Single Action			2.962	0.015	0	0.022	0.041	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A3 MIN-2								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.036	0.018	0	0.033	0.069	
5			2	5.86	0.019	0	0.033	0.072	
6			3	6.172	0.017	0	0.033	0.066	
7			4	6.024	0.017	0	0.034	0.064	
8			5	6.095	0.018	0	0.033	0.07	
9			6	5.934	0.018	0	0.033	0.068	
10			7	5.894	0.018	0	0.034	0.069	
11			8	5.841	0.018	0	0.034	0.069	
12			9	6.042	0.016	0	0.034	0.062	
13			10	5.971	0.019	0	0.033	0.073	
14			Avg:	5.987	0.018	0	0.033	0.068	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.987	0.018	0	0.033	0.068	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A2								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.926	0.021	0	0.032	0.08	
5			2	5.942	0.019	0	0.032	0.072	
6			3	5.818	0.019	0	0.032	0.068	
7			4	5.771	0.018	0	0.033	0.066	
8			5	5.735	0.018	0	0.033	0.066	
9			6	5.745	0.018	0	0.033	0.066	
10			7	6.05	0.02	0	0.032	0.076	
11			8	5.767	0.019	0	0.033	0.07	
12			9	5.985	0.022	0	0.032	0.081	
13			10	5.985	0.018	0	0.033	0.069	
14			Avg:	5.872	0.019	0	0.033	0.071	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.872	0.019	0	0.033	0.071	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A3 MIN-2								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.512	0.016	0	0.043	0.028	
5			2	2.591	0.015	0	0.043	0.027	
6			3	2.561	0.013	0	0.044	0.023	
7			4	2.585	0.013	0	0.043	0.024	
8			5	2.563	0.013	0	0.043	0.023	
9			6	2.631	0.014	0	0.042	0.025	
10			7	2.635	0.015	0	0.043	0.026	
11			8	2.597	0.013	0	0.044	0.024	
12			9	2.564	0.013	0	0.043	0.022	
13			10	2.539	0.013	0	0.043	0.022	
14			Avg:	2.578	0.014	0	0.043	0.024	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.578	0.014	0	0.043	0.024	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A2								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.657	0.016	0	0.043	0.029	
5			2	2.674	0.017	0	0.043	0.031	
6			3	2.631	0.016	0	0.043	0.028	
7			4	2.572	0.015	0	0.044	0.026	
8			5	2.601	0.015	0	0.044	0.027	
9			6	2.67	0.017	0	0.043	0.031	
10			7	2.597	0.017	0	0.043	0.03	
11			8	2.616	0.015	0	0.043	0.027	
12			9	2.575	0.015	0	0.044	0.027	
13			10	2.785	0.016	0	0.042	0.03	
14			Avg:	2.638	0.016	0	0.043	0.029	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.638	0.016	0	0.043	0.029	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.48	0.018	0.006	0.045	0.043	
5			2	3.554	0.017	0	0.045	0.042	
6			3	3.577	0.017	0	0.045	0.042	
7			4	3.492	0.019	0	0.044	0.045	
8			5	3.455	0.017	0	0.045	0.041	
9			6	3.485	0.017	0	0.044	0.041	
10			7	3.519	0.019	0	0.045	0.046	
11			8	3.511	0.019	0	0.045	0.046	
12			9	3.575	0.017	0	0.044	0.042	
13			10	3.607	0.019	0	0.045	0.047	
14			Avg:	3.526	0.018	0.001	0.045	0.044	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.526	0.018	0.001	0.045	0.044	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.809	0.018	0	0.028	0.065	
5			2	5.801	0.017	0	0.029	0.062	
6			3	5.833	0.021	0	0.028	0.076	
7			4	5.885	0.02	0	0.028	0.074	
8			5	5.84	0.017	0	0.029	0.064	
9			6	5.772	0.019	0.006	0.029	0.069	
10			7	5.782	0.021	0	0.029	0.074	
11			8	5.847	0.019	0	0.029	0.07	
12			9	5.827	0.018	0	0.029	0.065	
13			10	5.866	0.017	0	0.029	0.062	
14			Avg:	5.826	0.019	0.001	0.029	0.068	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.826	0.019	0.001	0.029	0.068	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.597	0.014	0	0.041	0.025	
5			2	2.57	0.014	0	0.041	0.026	
6			3	2.626	0.014	0	0.041	0.026	
7			4	2.593	0.015	0	0.041	0.026	
8			5	2.612	0.015	0	0.041	0.027	
9			6	2.598	0.014	0	0.041	0.026	
10			7	2.587	0.015	0	0.04	0.027	
11			8	2.621	0.016	0	0.041	0.029	
12			9	2.591	0.014	0	0.041	0.026	
13			10	2.679	0.015	0	0.041	0.028	
14			Avg:	2.607	0.015	0	0.041	0.027	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.607	0.015	0	0.041	0.027	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 START OF TESTING								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.401	0.016	0.006	0.041	0.036	
5			2	3.455	0.015	0	0.04	0.035	
6			3	3.444	0.016	0.005	0.04	0.037	
7			4	3.428	0.018	0.007	0.04	0.04	
8			5	3.452	0.018	0	0.04	0.04	
9			6	3.388	0.016	0.006	0.041	0.035	
10			7	3.429	0.018	0	0.04	0.04	
11			8	3.411	0.017	0.005	0.04	0.038	
12			9	3.444	0.016	0.005	0.041	0.036	
13			10	3.385	0.018	0.005	0.041	0.04	
14			Avg:	3.424	0.017	0.004	0.04	0.038	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.424	0.017	0.004	0.04	0.038	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A2								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.926	0.021	0	0.032	0.08	
5			2	5.942	0.019	0	0.032	0.072	
6			3	5.818	0.019	0	0.032	0.068	
7			4	5.771	0.018	0	0.033	0.066	
8			5	5.735	0.018	0	0.033	0.066	
9			6	5.745	0.018	0	0.033	0.066	
10			7	6.05	0.02	0	0.032	0.076	
11			8	5.767	0.019	0	0.033	0.07	
12			9	5.985	0.022	0	0.032	0.081	
13			10	5.985	0.018	0	0.033	0.069	
14			Avg:	5.872	0.019	0	0.033	0.071	0.00 ms
15									
16	XR100 A3 Fac								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1	3.609	0.023	0	0.031	0.057	
20			2	4.342	0.024	0	0.03	0.067	
21			3	4.004	0.023	0	0.031	0.061	
22			4	3.219	0.023	0	0.03	0.051	
23			5	3.332	0.023	0	0.031	0.052	
24			6	3.341	0.024	0	0.031	0.054	
25			7	3.174	0.024	0	0.031	0.051	
26			8	3.354	0.024	0	0.03	0.053	
27			9	3.35	0.023	0	0.032	0.052	
28			10	3.254	0.023	0	0.03	0.051	
29			Avg:	3.498	0.023	0	0.031	0.055	0.00 ms
30									
31	XR100 A3 Fac								
32	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
33				[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
34	Single Action		1						
35			2						
36			3						
37			4						
38			5						
39			6						
40			7						
41			8						
42			9						

	A	B	C	D	E	F	G	H	I
43			10						
44			Avg:	0	0	0	0	0	0.00 ms
45									
46									
47	TOTAL AVG								
48	Single Action			3.123	0.014	0	0.021	0.042	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A3 MIN-2								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.02	0.017	0	0.033	0.064	
5			2	5.853	0.019	0	0.034	0.072	
6			3	5.904	0.016	0	0.034	0.062	
7			4	6.026	0.016	0	0.034	0.063	
8			5	5.942	0.019	0	0.033	0.071	
9			6	5.953	0.016	0	0.034	0.062	
10			7	5.995	0.02	0	0.033	0.074	
11			8	5.936	0.017	0	0.034	0.064	
12			9	5.704	0.02	0	0.034	0.072	
13			10	5.811	0.016	0	0.034	0.06	
14			Avg:	5.914	0.018	0	0.034	0.066	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.914	0.018	0	0.034	0.066	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.351	0.018	0	0.029	0.076	
5			2	6.379	0.019	0	0.029	0.077	
6			3	6.783	0.018	0	0.029	0.077	
7			4	6.29	0.02	0	0.03	0.077	
8			5	6.375	0.022	0.005	0.029	0.089	
9			6	6.274	0.021	0	0.029	0.085	
10			7	6.639	0.019	0	0.029	0.079	
11			8	6.355	0.018	0	0.029	0.071	
12			9	6.509	0.018	0	0.029	0.074	
13			10	6.488	0.019	0	0.029	0.08	
14			Avg:	6.444	0.019	0.001	0.029	0.079	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.444	0.019	0.001	0.029	0.079	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A3 MIN-2								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.466	0.016	0	0.04	0.028	
5			2	2.516	0.017	0	0.04	0.029	
6			3	2.485	0.016	0	0.04	0.028	
7			4	2.51	0.014	0	0.041	0.025	
8			5	2.535	0.014	0	0.041	0.026	
9			6	2.532	0.016	0	0.04	0.028	
10			7	2.747	0.016	0	0.04	0.031	
11			8	2.504	0.016	0	0.04	0.029	
12			9	2.523	0.016	0	0.04	0.028	
13			10	2.515	0.014	0	0.041	0.025	
14			Avg:	2.533	0.016	0	0.04	0.028	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.533	0.016	0	0.04	0.028	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 A3 Initial setup min								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.636	0.017	0	0.042	0.031	
5			2	2.728	0.016	0	0.042	0.03	
6			3	2.671	0.015	0	0.041	0.028	
7			4	2.656	0.017	0	0.042	0.031	
8			5	2.551	0.015	0	0.041	0.027	
9			6	2.621	0.015	0	0.041	0.028	
10			7	2.78	0.015	0	0.042	0.029	
11			8	2.577	0.016	0	0.042	0.03	
12			9	2.549	0.015	0	0.042	0.026	
13			10	2.651	0.016	0	0.041	0.029	
14			Avg:	2.642	0.016	0	0.042	0.029	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.642	0.016	0	0.042	0.029	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.638	0.019	0	0.042	0.047	
5			2	3.649	0.019	0	0.043	0.047	
6			3	3.648	0.019	0	0.044	0.047	
7			4	3.642	0.017	0	0.043	0.042	
8			5	3.695	0.018	0	0.042	0.045	
9			6	3.577	0.019	0	0.042	0.046	
10			7	3.64	0.017	0	0.042	0.043	
11			8	3.636	0.017	0	0.042	0.043	
12			9	3.669	0.017	0	0.043	0.042	
13			10	3.717	0.016	0	0.043	0.041	
14			Avg:	3.651	0.018	0	0.043	0.044	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.651	0.018	0	0.043	0.044	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.975	0.019	0	0.034	0.041	
5			2	3.061	0.019	0.005	0.033	0.042	
6			3	3.187	0.019	0	0.034	0.041	
7			4	3.066	0.02	0	0.034	0.042	
8			5	2.989	0.018	0	0.033	0.038	
9			6	3.111	0.019	0	0.033	0.04	
10			7	3.466	0.018	0	0.034	0.041	
11			8	3.164	0.019	0	0.033	0.041	
12			9	3.17	0.019	0	0.033	0.041	
13			10	3.991	0.018	0	0.033	0.047	
14			Avg:	3.218	0.019	0.001	0.033	0.041	0.00 ms
15									
16	XR100 DAT								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1						
20			2						
21			3						
22			4						
23			5						
24			6						
25			7						
26			8						
27			9						
28			10						
29			Avg:	0	0	0	0	0	0.00 ms
30									
31									
32	TOTAL AVG								
33	Single Action			1.609	0.009	0	0.017	0.021	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.835	0.019	0	0.027	0.071	
5			2	6.053	0.022	0	0.022	0.085	
6			3	6.08	0.021	0	0.027	0.083	
7			4	5.944	0.021	0	0.027	0.082	
8			5	5.707	0.02	0	0.027	0.074	
9			6	5.696	0.019	0	0.027	0.072	
10			7	6.077	0.019	0	0.027	0.075	
11			8	5.715	0.019	0	0.027	0.073	
12			9	5.725	0.018	0	0.027	0.068	
13			10	5.768	0.02	0	0.027	0.074	
14			Avg:	5.86	0.02	0	0.027	0.076	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.86	0.02	0	0.027	0.076	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.335	0.019	0	0.019	0.075	
5			2	6.414	0.018	0	0.018	0.071	
6			3	6.228	0.021	0	0.021	0.082	
7			4	6.266	0.017	0	0.027	0.068	
8			5	6.523	0.017	0	0.017	0.07	
9			6	6.454	0.018	0	0.018	0.071	
10			7	6.277	0.019	0	0.017	0.077	
11			8	6.431	0.018	0	0.017	0.074	
12			9	6.631	0.017	0	0.017	0.072	
13			10	6.592	0.017	0	0.017	0.073	
14			Avg:	6.415	0.018	0	0.019	0.073	0.00 ms
15									
16	XR100 DAT								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1						
20			2						
21			3						
22			4						
23			5						
24			6						
25			7						
26			8						
27			9						
28			10						
29			Avg:	0	0	0	0	0	0.00 ms
30									
31									
32	TOTAL AVG								
33	Single Action			3.208	0.009	0	0.009	0.037	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.545	0.016	0	0.03	0.03	
5			2	2.645	0.016	0	0.031	0.031	
6			3	2.458	0.017	0	0.031	0.03	
7			4	2.565	0.015	0	0.031	0.029	
8			5	2.479	0.017	0	0.031	0.031	
9			6	2.525	0.016	0	0.03	0.029	
10			7	2.471	0.016	0	0.031	0.028	
11			8	2.605	0.015	0	0.03	0.029	
12			9	2.56	0.015	0	0.031	0.029	
13			10	2.605	0.017	0	0.03	0.032	
14			Avg:	2.546	0.016	0	0.031	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.546	0.016	0	0.031	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.524	0.016	0	0.031	0.028	
5			2	2.591	0.014	0	0.031	0.026	
6			3	2.617	0.014	0	0.031	0.026	
7			4	2.428	0.013	0	0.031	0.023	
8			5	2.633	0.013	0	0.031	0.025	
9			6	2.538	0.014	0	0.031	0.025	
10			7	2.487	0.013	0	0.031	0.024	
11			8	2.618	0.013	0	0.031	0.025	
12			9	2.966	0.015	0	0.031	0.031	
13			10	2.559	0.014	0	0.031	0.025	
14			Avg:	2.596	0.014	0	0.031	0.026	0.00 ms
15									
16	XR100 DAT								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1						
20			2						
21			3						
22			4						
23			5						
24			6						
25			7						
26			8						
27			9						
28			10						
29			Avg:	0	0	0	0	0	0.00 ms
30									
31									
32	TOTAL AVG								
33	Single Action			1.298	0.007	0	0.016	0.013	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.455	0.017	0	0.033	0.039	
5			2	3.442	0.017	0	0.032	0.039	
6			3	3.407	0.017	0	0.032	0.039	
7			4	3.392	0.017	0	0.033	0.038	
8			5	3.39	0.017	0	0.032	0.039	
9			6	3.464	0.017	0	0.032	0.04	
10			7	3.378	0.016	0	0.032	0.038	
11			8	3.374	0.018	0	0.032	0.042	
12			9	3.48	0.019	0	0.031	0.045	
13			10	3.477	0.018	0	0.031	0.042	
14			Avg:	3.426	0.017	0	0.032	0.04	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.426	0.017	0	0.032	0.04	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.404	0.024	0	0.03	0.062	
5			2	2.498	0.024	0	0.029	0.046	
6			3	2.874	0.023	0	0.029	0.05	
7			4	2.52	0.025	0	0.029	0.048	
8			5	2.485	0.024	0	0.03	0.046	
9			6	2.458	0.023	0	0.029	0.044	
10			7	2.439	0.024	0	0.029	0.044	
11			8	2.476	0.024	0	0.029	0.045	
12			9	2.652	0.023	0	0.028	0.046	
13			10	2.488	0.024	0	0.029	0.044	
14			Avg:	2.629	0.024	0	0.029	0.048	0.00 ms
15									
16	XR100 DAT								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1						
20			2						
21			3						
22			4						
23			5						
24			6						
25			7						
26			8						
27			9						
28			10						
29			Avg:	0	0	0	0	0	0.00 ms
30									
31	XR100 DAT								
32	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
33	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
34	Single Action		1						
35			2						
36			3						
37			4						
38			5						
39			6						
40			7						
41			8						
42			9						

	A	B	C	D	E	F	G	H	I
43			10						
44			Avg:	0	0	0	0	0	0.00 ms
45									
46									
47	TOTAL AVG								
48	Single Action			0.876	0.008	0	0.01	0.016	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.461	0.017	0	0.028	0.062	
5			2	5.605	0.017	0	0.028	0.062	
6			3	5.553	0.016	0	0.028	0.06	
7			4	5.562	0.018	0	0.028	0.065	
8			5	5.729	0.018	0	0.028	0.066	
9			6	5.714	0.019	0	0.028	0.073	
10			7	5.718	0.021	0	0.028	0.078	
11			8	5.689	0.017	0	0.029	0.061	
12			9	5.592	0.019	0	0.028	0.07	
13			10	5.572	0.016	0	0.028	0.061	
14			Avg:	5.62	0.018	0	0.028	0.066	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.62	0.018	0	0.028	0.066	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.566	0.022	0	0.019	0.091	
5			2	6.688	0.022	0	0.022	0.089	
6			3	6.489	0.02	0	0.028	0.081	
7			4	6.922	0.021	0	0.018	0.09	
8			5	6.674	0.018	0	0.024	0.076	
9			6	6.541	0.018	0	0.027	0.074	
10			7	6.578	0.02	0	0.027	0.082	
11			8	6.609	0.018	0	0.027	0.074	
12			9	6.747	0.02	0	0.028	0.085	
13			10	6.515	0.021	0	0.026	0.087	
14			Avg:	6.633	0.02	0	0.025	0.083	0.00 ms
15									
16	XR100 DAT								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1						
20			2						
21			3						
22			4						
23			5						
24			6						
25			7						
26			8						
27			9						
28			10						
29			Avg:	0	0	0	0	0	0.00 ms
30									
31	XR100 DAT								
32	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
33	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
34	Single Action		1						
35			2						
36			3						
37			4						
38			5						
39			6						
40			7						
41			8						
42			9						

	A	B	C	D	E	F	G	H	I
43			10						
44			Avg:	0	0	0	0	0	0.00 ms
45									
46									
47	TOTAL AVG								
48	Single Action			2.211	0.007	0	0.008	0.028	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.531	0.015	0	0.036	0.027	
5			2	2.573	0.015	0	0.036	0.027	
6			3	2.577	0.015	0	0.036	0.027	
7			4	2.543	0.015	0	0.036	0.027	
8			5	2.582	0.015	0	0.036	0.027	
9			6	2.504	0.015	0	0.036	0.026	
10			7	2.693	0.015	0	0.036	0.027	
11			8	2.52	0.016	0	0.036	0.028	
12			9	2.545	0.015	0	0.036	0.027	
13			10	2.526	0.015	0	0.036	0.026	
14			Avg:	2.559	0.015	0	0.036	0.027	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.559	0.015	0	0.036	0.027	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.591	0.016	0	0.035	0.029	
5			2	2.75	0.015	0	0.037	0.029	
6			3	2.736	0.016	0	0.036	0.03	
7			4	2.631	0.017	0	0.037	0.03	
8			5	2.651	0.017	0	0.036	0.031	
9			6	2.701	0.017	0	0.037	0.031	
10			7	2.7	0.016	0	0.036	0.029	
11			8	2.711	0.017	0	0.036	0.032	
12			9	2.697	0.015	0	0.036	0.028	
13			10	2.762	0.017	0	0.037	0.032	
14			Avg:	2.693	0.016	0	0.036	0.03	0.00 ms
15									
16	XR100 DAT								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1						
20			2						
21			3						
22			4						
23			5						
24			6						
25			7						
26			8						
27			9						
28			10						
29			Avg:	0	0	0	0	0	0.00 ms
30									
31	XR100 DAT								
32	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
33	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
34	Single Action		1						
35			2						
36			3						
37			4						
38			5						
39			6						
40			7						
41			8						
42			9						

	A	B	C	D	E	F	G	H	I
43			10						
44			Avg:	0	0	0	0	0	0.00 ms
45									
46									
47	TOTAL AVG								
48	Single Action			0.898	0.005	0	0.012	0.01	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.485	0.017	0	0.036	0.04	
5			2	3.41	0.018	0	0.037	0.04	
6			3	3.408	0.019	0	0.036	0.044	
7			4	3.396	0.017	0	0.036	0.038	
8			5	3.428	0.017	0	0.036	0.039	
9			6	3.382	0.017	0	0.037	0.038	
10			7	3.322	0.016	0	0.036	0.037	
11			8	3.345	0.017	0	0.037	0.038	
12			9	3.346	0.018	0	0.036	0.04	
13			10	3.256	0.017	0	0.036	0.038	
14			Avg:	3.378	0.017	0	0.036	0.039	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.378	0.017	0	0.036	0.039	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 A6 FACTORY SETTINGS								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.548	0.018	0	0.03	0.042	
5			2	3.514	0.018	0	0.03	0.042	
6			3	3.46	0.018	0	0.03	0.041	
7			4	3.399	0.017	0	0.031	0.04	
8			5	3.434	0.017	0	0.03	0.039	
9			6	3.49	0.019	0	0.029	0.043	
10			7	3.461	0.018	0	0.03	0.042	
11			8	3.5	0.017	0	0.03	0.039	
12			9	3.54	0.018	0	0.03	0.043	
13			10	3.504	0.017	0	0.03	0.039	
14			Avg:	3.485	0.018	0	0.03	0.041	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.485	0.018	0	0.03	0.041	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.039	0.017	0	0.027	0.065	
5			2	6.12	0.018	0	0.027	0.069	
6			3	6.167	0.017	0	0.026	0.063	
7			4	6.356	0.017	0	0.025	0.068	
8			5	6.061	0.018	0	0.026	0.067	
9			6	6.007	0.017	0	0.026	0.062	
10			7	6.061	0.017	0	0.026	0.062	
11			8	6.019	0.02	0	0.026	0.076	
12			9	6.534	0.017	0	0.026	0.068	
13			10	5.973	0.019	0	0.026	0.07	
14			Avg:	6.134	0.018	0	0.026	0.067	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.134	0.018	0	0.026	0.067	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A6 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.244	0.018	0	0.012	0.073	
5			2	6.156	0.02	0	0.012	0.077	
6			3	6.087	0.018	0	0.013	0.071	
7			4	6.074	0.022	0	0.014	0.086	
8			5	5.998	0.018	0	0.014	0.072	
9			6	6.369	0.022	0	0.013	0.09	
10			7	6.142	0.018	0	0.014	0.072	
11			8	6.047	0.018	0	0.015	0.071	
12			9	6.361	0.018	0	0.014	0.076	
13			10	5.986	0.018	0	0.015	0.069	
14			Avg:	6.146	0.019	0	0.014	0.076	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.146	0.019	0	0.014	0.076	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A6 MAX								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.64	0.02	0	0.027	0.084	
5			2	6.577	0.023	0	0.028	0.094	
6			3	6.598	0.018	0	0.027	0.075	
7			4	6.463	0.02	0	0.027	0.08	
8			5	6.777	0.018	0	0.027	0.078	
9			6	6.683	0.019	0	0.027	0.078	
10			7	6.38	0.019	0	0.027	0.078	
11			8	6.497	0.019	0	0.027	0.079	
12			9	6.791	0.018	0	0.027	0.079	
13			10	6.685	0.02	0	0.027	0.083	
14			Avg:	6.609	0.019	0	0.027	0.081	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.609	0.019	0	0.027	0.081	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.483	0.014	0	0.038	0.025	
5			2	2.592	0.014	0	0.039	0.026	
6			3	2.691	0.015	0	0.039	0.027	
7			4	2.712	0.013	0	0.039	0.024	
8			5	2.62	0.013	0	0.039	0.024	
9			6	2.693	0.013	0	0.039	0.024	
10			7	2.626	0.013	0	0.039	0.024	
11			8	2.659	0.014	0	0.039	0.026	
12			9	2.651	0.014	0	0.039	0.026	
13			10	2.634	0.013	0	0.039	0.025	
14			Avg:	2.636	0.014	0	0.039	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.636	0.014	0	0.039	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A6 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.592	0.015	0	0.042	0.028	
5			2	2.592	0.015	0	0.042	0.028	
6			3	2.524	0.015	0	0.042	0.027	
7			4	2.525	0.015	0	0.042	0.027	
8			5	2.546	0.014	0	0.042	0.027	
9			6	2.495	0.015	0	0.042	0.026	
10			7	2.609	0.016	0	0.042	0.029	
11			8	2.545	0.014	0	0.043	0.027	
12			9	2.561	0.015	0	0.041	0.028	
13			10	2.523	0.015	0	0.042	0.028	
14			Avg:	2.551	0.015	0	0.042	0.028	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.551	0.015	0	0.042	0.028	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 A6 FACTORY SETTINGS								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.774	0.016	0	0.042	0.032	
5			2	2.774	0.014	0	0.042	0.029	
6			3	2.823	0.016	0	0.042	0.032	
7			4	2.796	0.015	0	0.041	0.029	
8			5	2.804	0.015	0	0.042	0.03	
9			6	2.731	0.014	0	0.042	0.028	
10			7	2.885	0.017	0	0.042	0.034	
11			8	2.769	0.014	0	0.042	0.028	
12			9	2.729	0.016	0	0.042	0.031	
13			10	2.81	0.015	0	0.042	0.03	
14			Avg:	2.79	0.015	0	0.042	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.79	0.015	0	0.042	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.481	0.016	0	0.039	0.04	
5			2	3.471	0.017	0	0.04	0.04	
6			3	3.545	0.017	0	0.039	0.042	
7			4	3.516	0.015	0	0.04	0.036	
8			5	3.512	0.015	0	0.04	0.035	
9			6	3.565	0.016	0	0.039	0.038	
10			7	3.462	0.015	0	0.039	0.035	
11			8	3.404	0.015	0	0.039	0.034	
12			9	3.52	0.015	0	0.039	0.037	
13			10	3.445	0.015	0	0.039	0.036	
14			Avg:	3.492	0.016	0	0.039	0.037	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.492	0.016	0	0.039	0.037	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A6 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.244	0.018	0	0.012	0.073	
5			2	6.156	0.02	0	0.012	0.077	
6			3	6.087	0.018	0	0.013	0.071	
7			4	6.074	0.022	0	0.014	0.086	
8			5	5.998	0.018	0	0.014	0.072	
9			6	6.369	0.022	0	0.013	0.09	
10			7	6.142	0.018	0	0.014	0.072	
11			8	6.047	0.018	0	0.015	0.071	
12			9	6.361	0.018	0	0.014	0.076	
13			10	5.986	0.018	0	0.015	0.069	
14			Avg:	6.146	0.019	0	0.014	0.076	0.00 ms
15									
16	XR100 A7 Fac								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1	3.233	0.022	0	0.032	0.048	
20			2	3.517	0.021	0	0.031	0.049	
21			3	3.499	0.02	0	0.031	0.047	
22			4	3.504	0.021	0	0.031	0.05	
23			5	3.545	0.02	0	0.032	0.048	
24			6	3.412	0.022	0	0.031	0.05	
25			7	3.485	0.02	0	0.031	0.048	
26			8	3.418	0.02	0	0.032	0.046	
27			9	3.498	0.022	0	0.032	0.052	
28			10	3.462	0.022	0	0.031	0.05	
29			Avg:	3.457	0.021	0	0.031	0.049	0.00 ms
30									
31									
32	TOTAL AVG								
33	Single Action			4.802	0.02	0	0.023	0.062	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.705	0.018	0	0.027	0.066	
5			2	5.818	0.021	0	0.027	0.074	
6			3	5.631	0.021	0	0.027	0.074	
7			4	5.619	0.019	0	0.028	0.066	
8			5	5.648	0.022	0	0.027	0.077	
9			6	5.854	0.018	0	0.027	0.066	
10			7	5.785	0.018	0	0.027	0.065	
11			8	5.755	0.022	0	0.027	0.079	
12			9	5.682	0.018	0	0.028	0.066	
13			10	5.684	0.02	0	0.028	0.07	
14			Avg:	5.718	0.02	0	0.027	0.07	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.718	0.02	0	0.027	0.07	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A6 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.244	0.018	0	0.012	0.073	
5			2	6.156	0.02	0	0.012	0.077	
6			3	6.087	0.018	0	0.013	0.071	
7			4	6.074	0.022	0	0.014	0.086	
8			5	5.998	0.018	0	0.014	0.072	
9			6	6.369	0.022	0	0.013	0.09	
10			7	6.142	0.018	0	0.014	0.072	
11			8	6.047	0.018	0	0.015	0.071	
12			9	6.361	0.018	0	0.014	0.076	
13			10	5.986	0.018	0	0.015	0.069	
14			Avg:	6.146	0.019	0	0.014	0.076	0.00 ms
15									
16	XR100 A7 Fac								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1	6.571	0.023	0	0.018	0.09	
20			2	6.718	0.018	0	0.026	0.074	
21			3	6.622	0.017	0	0.025	0.068	
22			4	6.692	0.017	0	0.025	0.071	
23			5	6.502	0.019	0	0.026	0.075	
24			6	6.396	0.019	0	0.026	0.076	
25			7	6.493	0.019	0	0.025	0.077	
26			8	6.447	0.016	0	0.025	0.064	
27			9	6.419	0.019	0	0.025	0.073	
28			10	6.545	0.016	0	0.025	0.064	
29			Avg:	6.541	0.018	0	0.025	0.073	0.00 ms
30									
31									
32	TOTAL AVG								
33	Single Action			6.343	0.019	0	0.019	0.074	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.55	0.015	0	0.039	0.024	
5			2	2.707	0.016	0	0.04	0.028	
6			3	2.59	0.014	0	0.038	0.024	
7			4	2.552	0.014	0	0.04	0.024	
8			5	2.609	0.016	0	0.04	0.027	
9			6	2.558	0.015	0	0.039	0.025	
10			7	2.6	0.014	0	0.04	0.025	
11			8	2.504	0.016	0	0.039	0.026	
12			9	2.553	0.014	0	0.039	0.024	
13			10	2.593	0.014	0	0.039	0.024	
14			Avg:	2.582	0.015	0	0.039	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.582	0.015	0	0.039	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A6 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.244	0.018	0	0.012	0.073	
5			2	6.156	0.02	0	0.012	0.077	
6			3	6.087	0.018	0	0.013	0.071	
7			4	6.074	0.022	0	0.014	0.086	
8			5	5.998	0.018	0	0.014	0.072	
9			6	6.369	0.022	0	0.013	0.09	
10			7	6.142	0.018	0	0.014	0.072	
11			8	6.047	0.018	0	0.015	0.071	
12			9	6.361	0.018	0	0.014	0.076	
13			10	5.986	0.018	0	0.015	0.069	
14			Avg:	6.146	0.019	0	0.014	0.076	0.00 ms
15									
16	XR100 A7 Fac								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1	2.487	0.014	0	0.038	0.024	
20			2	2.601	0.014	0	0.038	0.025	
21			3	2.584	0.014	0	0.039	0.025	
22			4	2.611	0.014	0	0.037	0.024	
23			5	2.583	0.015	0	0.038	0.025	
24			6	2.693	0.015	0	0.038	0.027	
25			7	2.563	0.014	0	0.038	0.024	
26			8	2.464	0.014	0	0.037	0.025	
27			9	2.59	0.017	0	0.038	0.028	
28			10	2.57	0.014	0	0.037	0.024	
29			Avg:	2.575	0.015	0	0.038	0.025	0.00 ms
30									
31									
32	TOTAL AVG								
33	Single Action			4.361	0.017	0	0.026	0.05	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.479	0.018	0	0.038	0.04	
5			2	3.481	0.016	0	0.039	0.037	
6			3	3.485	0.016	0	0.039	0.036	
7			4	3.401	0.017	0	0.039	0.036	
8			5	3.477	0.016	0	0.039	0.036	
9			6	3.423	0.017	0	0.039	0.037	
10			7	3.555	0.019	0	0.039	0.043	
11			8	3.48	0.019	0	0.039	0.042	
12			9	3.447	0.017	0	0.039	0.037	
13			10	3.453	0.018	0	0.039	0.041	
14			Avg:	3.468	0.017	0	0.039	0.039	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.468	0.017	0	0.039	0.039	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.656	0.019	0	0.032	0.047	
5			2	3.505	0.021	0	0.031	0.051	
6			3	3.436	0.019	0	0.033	0.043	
7			4	3.505	0.02	0	0.032	0.048	
8			5	3.489	0.019	0	0.032	0.045	
9			6	3.34	0.019	0	0.032	0.044	
10			7	3.009	0.02	0	0.032	0.04	
11			8	3.518	0.021	0	0.033	0.05	
12			9	3.167	0.02	0	0.032	0.043	
13			10	3.327	0.018	0	0.032	0.042	
14			Avg:	3.395	0.02	0	0.032	0.045	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.395	0.02	0	0.032	0.045	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.758	0.022	0	0.03	0.079	
5			2	5.738	0.02	0	0.03	0.075	
6			3	5.731	0.019	0	0.03	0.069	
7			4	5.675	0.018	0	0.031	0.065	
8			5	5.777	0.018	0	0.031	0.066	
9			6	5.649	0.018	0	0.031	0.066	
10			7	6.205	0.017	0	0.03	0.068	
11			8	5.947	0.02	0	0.03	0.075	
12			9	5.972	0.018	0	0.031	0.068	
13			10	6.026	0.02	0	0.03	0.077	
14			Avg:	5.848	0.019	0	0.03	0.071	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.848	0.019	0	0.03	0.071	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.754	0.015	0	0.038	0.027	
5			2	2.618	0.016	0	0.039	0.027	
6			3	2.67	0.014	0	0.039	0.025	
7			4	2.568	0.015	0	0.039	0.025	
8			5	2.523	0.014	0	0.038	0.023	
9			6	2.602	0.013	0	0.038	0.023	
10			7	2.569	0.014	0	0.039	0.024	
11			8	2.651	0.014	0	0.038	0.026	
12			9	2.672	0.016	0	0.039	0.028	
13			10	2.64	0.014	0	0.039	0.025	
14			Avg:	2.627	0.015	0	0.039	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.627	0.015	0	0.039	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.553	0.017	0	0.039	0.039	
5			2	3.58	0.017	0	0.039	0.041	
6			3	3.522	0.017	0	0.039	0.039	
7			4	3.466	0.018	0	0.04	0.041	
8			5	3.525	0.017	0	0.039	0.038	
9			6	3.536	0.016	0	0.039	0.037	
10			7	3.485	0.016	0	0.039	0.037	
11			8	3.572	0.016	0	0.039	0.038	
12			9	3.506	0.017	0	0.039	0.039	
13			10	3.51	0.016	0	0.039	0.037	
14			Avg:	3.526	0.017	0	0.039	0.039	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.526	0.017	0	0.039	0.039	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4	0.018	0	0.03	0.049	
5			2	3.731	0.018	0	0.03	0.043	
6			3	3.532	0.018	0	0.031	0.041	
7			4	3.328	0.018	0	0.031	0.039	
8			5	3.389	0.018	0	0.031	0.039	
9			6	3.244	0.018	0	0.032	0.039	
10			7	3.969	0.021	0	0.03	0.054	
11			8	3.318	0.018	0	0.031	0.039	
12			9	3.24	0.02	0	0.03	0.041	
13			10	3.066	0.018	0	0.031	0.036	
14			Avg:	3.482	0.019	0	0.031	0.042	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.482	0.019	0	0.031	0.042	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.542	0.019	0	0.027	0.079	
5			2	6.534	0.02	0	0.028	0.084	
6			3	6.58	0.023	0	0.018	0.094	
7			4	6.638	0.02	0	0.018	0.083	
8			5	6.547	0.02	0	0.018	0.082	
9			6	6.504	0.019	0	0.018	0.078	
10			7	6.506	0.022	0	0.022	0.09	
11			8	6.477	0.018	0	0.026	0.076	
12			9	6.528	0.019	0	0.019	0.078	
13			10	6.496	0.022	0	0.022	0.089	
14			Avg:	6.535	0.02	0	0.022	0.083	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.535	0.02	0	0.022	0.083	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.601	0.016	0	0.038	0.029	
5			2	2.439	0.016	0	0.039	0.027	
6			3	2.522	0.015	0	0.039	0.027	
7			4	2.693	0.017	0	0.039	0.031	
8			5	2.482	0.016	0	0.039	0.028	
9			6	2.645	0.015	0	0.039	0.029	
10			7	2.551	0.017	0	0.039	0.031	
11			8	2.607	0.017	0	0.039	0.031	
12			9	2.648	0.016	0	0.039	0.029	
13			10	2.58	0.016	0	0.039	0.029	
14			Avg:	2.577	0.016	0	0.039	0.029	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.577	0.016	0	0.039	0.029	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.444	0.018	0	0.041	0.044	
5			2	3.41	0.016	0	0.041	0.037	
6			3	3.39	0.018	0	0.041	0.042	
7			4	3.412	0.018	0	0.041	0.042	
8			5	3.434	0.016	0	0.041	0.038	
9			6	3.48	0.017	0	0.041	0.04	
10			7	3.423	0.016	0	0.041	0.038	
11			8	3.482	0.017	0	0.04	0.04	
12			9	3.537	0.017	0	0.04	0.042	
13			10	3.436	0.016	0	0.041	0.037	
14			Avg:	3.445	0.017	0	0.041	0.04	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.445	0.017	0	0.041	0.04	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A6 1000 RDS								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.255	0.015	0	0.039	0.039	
5			2	4.234	0.015	0	0.04	0.038	
6			3	4.158	0.014	0	0.039	0.036	
7			4	4.172	0.014	0	0.04	0.036	
8			5	4.196	0.015	0	0.039	0.037	
9			6	4.199	0.018	0	0.039	0.045	
10			7	4.164	0.015	0	0.04	0.038	
11			8	4.213	0.015	0	0.04	0.038	
12			9	4.121	0.014	0	0.04	0.036	
13			10	4.175	0.017	0	0.04	0.043	
14			Avg:	4.189	0.015	0	0.04	0.039	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.189	0.015	0	0.04	0.039	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.989	0.02	0	0.043	0.052	
5			2	4.037	0.017	0	0.043	0.046	
6			3	3.966	0.017	0	0.044	0.043	
7			4	4.142	0.017	0	0.043	0.046	
8			5	4.077	0.017	0	0.043	0.044	
9			6	4.075	0.017	0	0.044	0.045	
10			7	4.039	0.016	0	0.044	0.044	
11			8	3.985	0.017	0	0.043	0.045	
12			9	4.048	0.017	0	0.044	0.045	
13			10	3.989	0.018	0	0.043	0.047	
14			Avg:	4.035	0.017	0	0.043	0.046	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.035	0.017	0	0.043	0.046	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.683	0.02	0	0.044	0.051	
5			2	3.845	0.019	0	0.044	0.05	
6			3	3.669	0.019	0	0.043	0.048	
7			4	3.75	0.02	0	0.043	0.052	
8			5	3.622	0.019	0	0.044	0.048	
9			6	3.611	0.02	0	0.043	0.048	
10			7	3.569	0.021	0	0.043	0.052	
11			8	3.648	0.022	0	0.043	0.055	
12			9	3.597	0.021	0	0.043	0.051	
13			10	3.691	0.02	0	0.044	0.05	
14			Avg:	3.669	0.02	0	0.043	0.051	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.669	0.02	0	0.043	0.051	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 START OF TESTING								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.513	0.018	0	0.043	0.043	
5			2	3.833	0.014	0	0.042	0.036	
6			3	3.666	0.015	0	0.042	0.035	
7			4	3.578	0.014	0	0.042	0.034	
8			5	3.667	0.015	0	0.042	0.036	
9			6	3.713	0.014	0	0.042	0.034	
10			7	3.704	0.014	0	0.041	0.036	
11			8	3.689	0.015	0	0.043	0.038	
12			9	3.635	0.013	0	0.041	0.033	
13			10	3.626	0.015	0	0.042	0.035	
14			Avg:	3.662	0.015	0	0.042	0.036	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.662	0.015	0	0.042	0.036	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A17 START OF TESTING								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.798	0.017	0	0.042	0.044	
5			2	4.009	0.019	0	0.042	0.052	
6			3	3.84	0.017	0	0.042	0.044	
7			4	3.793	0.017	0	0.042	0.044	
8			5	3.708	0.017	0	0.042	0.042	
9			6	3.866	0.017	0	0.042	0.046	
10			7	3.781	0.017	0	0.042	0.044	
11			8	3.759	0.018	0	0.042	0.045	
12			9	3.768	0.017	0	0.042	0.043	
13			10	3.745	0.017	0	0.042	0.044	
14			Avg:	3.807	0.017	0	0.042	0.045	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.807	0.017	0	0.042	0.045	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 START OF TESTING								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.89	0.017	0	0.041	0.044	
5			2	3.929	0.015	0	0.041	0.038	
6			3	3.803	0.015	0	0.04	0.038	
7			4	3.817	0.017	0	0.041	0.043	
8			5	3.749	0.014	0	0.041	0.035	
9			6	3.867	0.014	0	0.04	0.037	
10			7	3.853	0.014	0	0.041	0.036	
11			8	3.804	0.017	0	0.041	0.042	
12			9	3.828	0.014	0	0.041	0.036	
13			10	3.815	0.016	0	0.041	0.041	
14			Avg:	3.836	0.015	0	0.041	0.039	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.836	0.015	0	0.041	0.039	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.318	0.017	0	0.045	0.04	
5			2	3.288	0.016	0	0.046	0.038	
6			3	3.248	0.018	0	0.045	0.04	
7			4	3.385	0.017	0	0.047	0.039	
8			5	3.383	0.017	0	0.046	0.04	
9			6	3.379	0.017	0	0.046	0.039	
10			7	3.338	0.016	0	0.045	0.037	
11			8	3.364	0.016	0	0.046	0.037	
12			9	3.328	0.016	0	0.046	0.037	
13			10	3.295	0.018	0	0.045	0.042	
14			Avg:	3.333	0.017	0	0.046	0.039	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.333	0.017	0	0.046	0.039	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 START OF TESTING								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.422	0.013	0	0.041	0.032	
5			2	3.239	0.014	0	0.041	0.03	
6			3	3.254	0.014	0	0.041	0.03	
7			4	3.331	0.015	0	0.04	0.035	
8			5	3.264	0.013	0	0.041	0.031	
9			6	3.286	0.014	0	0.04	0.032	
10			7	3.24	0.016	0	0.04	0.035	
11			8	3.242	0.013	0	0.04	0.029	
12			9	3.22	0.014	0	0.041	0.03	
13			10	3.235	0.013	0	0.04	0.03	
14			Avg:	3.273	0.014	0	0.041	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.273	0.014	0	0.041	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.032	0.015	0	0.04	0.039	
5			2	3.965	0.016	0	0.04	0.041	
6			3	3.933	0.017	0	0.04	0.046	
7			4	3.989	0.017	0	0.04	0.046	
8			5	4.044	0.015	0	0.04	0.04	
9			6	3.956	0.015	0	0.04	0.04	
10			7	3.944	0.015	0	0.04	0.039	
11			8	3.917	0.015	0	0.04	0.04	
12			9	3.843	0.016	0	0.04	0.042	
13			10	3.907	0.016	0	0.04	0.043	
14			Avg:	3.953	0.016	0	0.04	0.042	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.953	0.016	0	0.04	0.042	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.858	0.018	0	0.039	0.045	
5			2	3.805	0.017	0	0.038	0.041	
6			3	3.645	0.017	0	0.039	0.041	
7			4	3.863	0.018	0	0.039	0.045	
8			5	3.737	0.017	0	0.038	0.042	
9			6	3.717	0.016	0	0.039	0.04	
10			7	3.785	0.018	0	0.039	0.042	
11			8	3.749	0.016	0	0.039	0.04	
12			9	3.636	0.016	0	0.039	0.038	
13			10	3.871	0.016	0	0.039	0.04	
14			Avg:	3.767	0.017	0	0.039	0.041	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.767	0.017	0	0.039	0.041	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 9000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.344	0.015	0	0.044	0.035	
5			2	3.255	0.014	0.004	0.043	0.031	
6			3	3.286	0.015	0	0.044	0.032	
7			4	3.251	0.014	0	0.044	0.03	
8			5	3.196	0.014	0	0.044	0.03	
9			6	3.214	0.012	0	0.043	0.026	
10			7	3.186	0.012	0	0.043	0.026	
11			8	3.185	0.014	0	0.043	0.03	
12			9	3.207	0.012	0	0.043	0.028	
13			10	3.133	0.012	0	0.043	0.027	
14			Avg:	3.226	0.013	0	0.043	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.226	0.013	0	0.043	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 9000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.542	0.019	0.006	0.046	0.045	
5			2	3.598	0.019	0.006	0.046	0.045	
6			3	3.56	0.019	0.006	0.045	0.044	
7			4	3.561	0.02	0.005	0.046	0.048	
8			5	3.373	0.018	0.005	0.046	0.043	
9			6	3.509	0.018	0.005	0.046	0.043	
10			7	3.485	0.019	0.005	0.045	0.045	
11			8	3.511	0.018	0.005	0.046	0.042	
12			9	3.453	0.018	0.005	0.045	0.042	
13			10	3.42	0.019	0	0.046	0.044	
14			Avg:	3.501	0.019	0.005	0.046	0.044	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.501	0.019	0.005	0.046	0.044	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 6000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.502	0.017	0.007	0.043	0.038	
5			2	3.53	0.018	0.006	0.043	0.041	
6			3	3.433	0.018	0.006	0.043	0.04	
7			4	3.499	0.018	0.005	0.043	0.041	
8			5	3.584	0.017	0.006	0.044	0.038	
9			6	3.516	0.019	0.005	0.043	0.042	
10			7	3.504	0.018	0	0.044	0.039	
11			8	3.61	0.017	0.007	0.044	0.041	
12			9	3.493	0.016	0.005	0.045	0.037	
13			10	3.59	0.017	0.005	0.044	0.04	
14			Avg:	3.526	0.018	0.005	0.044	0.04	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.526	0.018	0.005	0.044	0.04	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.346	0.015	0	0.04	0.038	
5			2	4.364	0.014	0	0.041	0.037	
6			3	4.276	0.015	0	0.041	0.037	
7			4	4.384	0.015	0	0.04	0.039	
8			5	4.295	0.015	0	0.041	0.037	
9			6	4.218	0.015	0	0.041	0.036	
10			7	4.263	0.015	0	0.04	0.037	
11			8	4.279	0.014	0	0.041	0.037	
12			9	4.249	0.015	0	0.042	0.037	
13			10	4.296	0.015	0	0.041	0.039	
14			Avg:	4.297	0.015	0	0.041	0.037	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.297	0.015	0	0.041	0.037	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.736	0.019	0	0.043	0.046	
5			2	3.663	0.017	0.006	0.044	0.04	
6			3	3.82	0.017	0	0.044	0.042	
7			4	3.828	0.017	0	0.043	0.041	
8			5	3.864	0.017	0	0.044	0.042	
9			6	3.775	0.017	0	0.045	0.041	
10			7	3.846	0.019	0	0.043	0.047	
11			8	3.716	0.017	0	0.044	0.042	
12			9	3.676	0.017	0	0.043	0.042	
13			10	3.684	0.017	0	0.043	0.041	
14			Avg:	3.761	0.017	0.001	0.044	0.042	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.761	0.017	0.001	0.044	0.042	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.985	0.015	0	0.04	0.041	
5			2	4.061	0.015	0	0.04	0.041	
6			3	4.069	0.015	0	0.04	0.04	
7			4	3.923	0.015	0	0.04	0.04	
8			5	3.882	0.015	0	0.041	0.04	
9			6	4.01	0.015	0	0.04	0.041	
10			7	3.934	0.017	0	0.04	0.045	
11			8	3.858	0.015	0	0.04	0.039	
12			9	3.88	0.015	0	0.041	0.039	
13			10	3.949	0.016	0	0.04	0.041	
14			Avg:	3.955	0.015	0	0.04	0.041	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.955	0.015	0	0.04	0.041	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.923	0.016	0	0.041	0.037	
5			2	4.024	0.013	0	0.04	0.033	
6			3	4.127	0.015	0	0.041	0.037	
7			4	4.072	0.014	0	0.041	0.033	
8			5	4.069	0.013	0	0.041	0.032	
9			6	4.107	0.015	0	0.041	0.037	
10			7	3.927	0.013	0	0.041	0.03	
11			8	4.17	0.014	0	0.04	0.035	
12			9	3.949	0.013	0	0.041	0.03	
13			10	3.986	0.013	0	0.041	0.032	
14			Avg:	4.035	0.014	0	0.041	0.034	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.035	0.014	0	0.041	0.034	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A11 2000 RDS								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.478	0.017	0	0.044	0.039	
5			2	3.464	0.016	0	0.044	0.038	
6			3	3.469	0.017	0.006	0.043	0.04	
7			4	3.42	0.019	0	0.043	0.043	
8			5	3.515	0.017	0	0.044	0.038	
9			6	3.472	0.017	0	0.044	0.039	
10			7	3.493	0.017	0	0.044	0.038	
11			8	3.578	0.016	0	0.044	0.038	
12			9	3.467	0.017	0	0.044	0.038	
13			10	3.504	0.017	0	0.044	0.038	
14			Avg:	3.486	0.017	0.001	0.044	0.039	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.486	0.017	0.001	0.044	0.039	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 1000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.538	0.016	0	0.042	0.038	
5			2	3.715	0.016	0	0.041	0.039	
6			3	3.631	0.017	0	0.042	0.04	
7			4	3.556	0.015	0	0.042	0.035	
8			5	3.601	0.012	0	0.041	0.03	
9			6	3.447	0.013	0	0.041	0.03	
10			7	3.66	0.015	0	0.041	0.036	
11			8	3.523	0.012	0	0.041	0.029	
12			9	3.595	0.015	0	0.041	0.035	
13			10	3.57	0.013	0	0.042	0.032	
14			Avg:	3.584	0.014	0	0.041	0.034	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.584	0.014	0	0.041	0.034	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A17 1000RNDS								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.635	0.015	0	0.044	0.037	
5			2	3.52	0.014	0	0.043	0.033	
6			3	3.541	0.016	0	0.042	0.036	
7			4	3.531	0.017	0	0.042	0.039	
8			5	3.418	0.017	0	0.042	0.038	
9			6	3.48	0.016	0	0.042	0.036	
10			7	3.434	0.015	0	0.042	0.035	
11			8	3.571	0.017	0	0.042	0.04	
12			9	3.569	0.015	0	0.043	0.035	
13			10	3.501	0.015	0	0.042	0.035	
14			Avg:	3.52	0.016	0	0.042	0.036	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.52	0.016	0	0.042	0.036	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 1000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.653	0.014	0	0.042	0.036	
5			2	3.661	0.015	0	0.043	0.037	
6			3	3.619	0.015	0	0.042	0.037	
7			4	3.673	0.015	0	0.043	0.036	
8			5	3.626	0.015	0	0.042	0.035	
9			6	3.584	0.014	0	0.043	0.034	
10			7	3.597	0.016	0	0.042	0.038	
11			8	3.639	0.014	0	0.043	0.035	
12			9	3.631	0.015	0	0.043	0.036	
13			10	3.656	0.015	0	0.043	0.036	
14			Avg:	3.634	0.015	0	0.043	0.036	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.634	0.015	0	0.043	0.036	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.058	0.014	0	0.041	0.037	
5			2	4.115	0.014	0	0.041	0.037	
6			3	3.968	0.017	0	0.039	0.043	
7			4	4.088	0.014	0	0.04	0.038	
8			5	3.989	0.014	0	0.04	0.037	
9			6	4.045	0.014	0	0.04	0.036	
10			7	4.047	0.014	0	0.04	0.038	
11			8	4.043	0.014	0	0.041	0.036	
12			9	4.076	0.014	0	0.04	0.037	
13			10	4.112	0.014	0	0.04	0.037	
14			Avg:	4.054	0.014	0	0.04	0.038	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.054	0.014	0	0.04	0.038	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 3000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.304	0.014	0	0.041	0.031	
5			2	3.206	0.015	0	0.041	0.033	
6			3	3.196	0.014	0	0.041	0.031	
7			4	3.239	0.014	0	0.041	0.033	
8			5	3.245	0.015	0	0.041	0.034	
9			6	3.307	0.015	0	0.041	0.034	
10			7	3.319	0.014	0	0.041	0.031	
11			8	3.314	0.014	0	0.041	0.032	
12			9	3.186	0.015	0	0.041	0.034	
13			10	3.291	0.014	0	0.041	0.031	
14			Avg:	3.261	0.014	0	0.041	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.261	0.014	0	0.041	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 2000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.173	0.017	0	0.042	0.035	
5			2	3.057	0.015	0	0.042	0.03	
6			3	3.097	0.016	0	0.042	0.033	
7			4	3.045	0.017	0	0.043	0.034	
8			5	3.159	0.014	0	0.043	0.03	
9			6	3.107	0.015	0	0.043	0.031	
10			7	3.146	0.014	0	0.042	0.03	
11			8	3.282	0.017	0	0.042	0.036	
12			9	3.147	0.017	0	0.042	0.035	
13			10	3.396	0.015	0	0.044	0.032	
14			Avg:	3.161	0.016	0	0.043	0.033	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.161	0.016	0	0.043	0.033	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 2000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.574	0.014	0	0.044	0.033	
5			2	3.657	0.017	0	0.043	0.041	
6			3	3.588	0.015	0	0.043	0.036	
7			4	3.552	0.014	0	0.044	0.033	
8			5	3.57	0.014	0	0.044	0.033	
9			6	3.648	0.014	0	0.044	0.034	
10			7	3.648	0.017	0	0.043	0.041	
11			8	3.627	0.015	0	0.043	0.038	
12			9	3.642	0.017	0	0.043	0.041	
13			10	3.682	0.013	0	0.043	0.034	
14			Avg:	3.619	0.015	0	0.043	0.036	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.619	0.015	0	0.043	0.036	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 3000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.227	0.014	0	0.042	0.031	
5			2	3.228	0.013	0	0.042	0.03	
6			3	3.134	0.014	0	0.042	0.03	
7			4	3.231	0.013	0	0.042	0.031	
8			5	3.167	0.014	0	0.041	0.032	
9			6	3.139	0.013	0	0.042	0.029	
10			7	3.188	0.013	0	0.042	0.029	
11			8	3.185	0.013	0	0.042	0.029	
12			9	3.228	0.013	0	0.042	0.029	
13			10	3.191	0.012	0	0.042	0.028	
14			Avg:	3.192	0.013	0	0.042	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.192	0.013	0	0.042	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A17 3000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.453	0.014	0	0.041	0.034	
5			2	3.439	0.015	0	0.041	0.034	
6			3	3.328	0.014	0	0.041	0.032	
7			4	3.346	0.016	0	0.041	0.037	
8			5	3.353	0.017	0	0.041	0.038	
9			6	3.358	0.014	0	0.041	0.032	
10			7	3.376	0.015	0	0.042	0.033	
11			8	3.433	0.015	0	0.041	0.035	
12			9	3.445	0.015	0	0.042	0.035	
13			10	3.426	0.014	0	0.041	0.034	
14			Avg:	3.396	0.015	0	0.041	0.034	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.396	0.015	0	0.041	0.034	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 3000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.682	0.015	0	0.044	0.037	
5			2	3.703	0.015	0	0.043	0.038	
6			3	3.561	0.017	0	0.044	0.041	
7			4	3.578	0.016	0	0.044	0.037	
8			5	3.603	0.017	0	0.044	0.041	
9			6	3.681	0.016	0	0.044	0.038	
10			7	3.576	0.016	0	0.043	0.039	
11			8	3.669	0.015	0	0.043	0.037	
12			9	3.532	0.014	0	0.044	0.035	
13			10	3.612	0.014	0	0.044	0.034	
14			Avg:	3.62	0.016	0	0.044	0.038	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.62	0.016	0	0.044	0.038	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 1000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.4	0.015	0	0.044	0.035	
5			2	3.376	0.015	0	0.043	0.035	
6			3	3.22	0.016	0	0.043	0.035	
7			4	3.403	0.014	0	0.043	0.032	
8			5	3.316	0.014	0	0.043	0.032	
9			6	3.248	0.016	0	0.042	0.036	
10			7	3.381	0.014	0	0.043	0.033	
11			8	3.296	0.015	0	0.042	0.034	
12			9	3.331	0.016	0	0.042	0.037	
13			10	3.226	0.014	0	0.043	0.031	
14			Avg:	3.32	0.015	0	0.043	0.034	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.835	0.015	0	0.04	0.035	
5			2	3.63	0.015	0	0.04	0.034	
6			3	3.645	0.017	0	0.04	0.039	
7			4	3.578	0.015	0	0.04	0.033	
8			5	3.772	0.014	0	0.04	0.034	
9			6	3.54	0.015	0	0.04	0.033	
10			7	3.765	0.017	0	0.039	0.04	
11			8	3.727	0.017	0	0.04	0.038	
12			9	3.794	0.015	0	0.04	0.034	
13			10	3.699	0.017	0	0.039	0.038	
14			Avg:	3.699	0.016	0	0.04	0.036	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.699	0.016	0	0.04	0.036	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.78	0.017	0	0.041	0.042	
5			2	3.926	0.017	0	0.042	0.043	
6			3	3.821	0.019	0	0.041	0.048	
7			4	3.902	0.02	0	0.041	0.05	
8			5	3.717	0.019	0	0.042	0.045	
9			6	3.904	0.017	0	0.042	0.043	
10			7	3.923	0.017	0	0.042	0.043	
11			8	3.78	0.017	0	0.042	0.043	
12			9	3.896	0.017	0	0.042	0.044	
13			10	3.92	0.017	0	0.042	0.043	
14			Avg:	3.857	0.018	0	0.042	0.044	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.857	0.018	0	0.042	0.044	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.586	0.021	0	0.043	0.051	
5			2	3.447	0.022	0	0.043	0.052	
6			3	3.49	0.02	0	0.042	0.049	
7			4	3.574	0.02	0	0.043	0.05	
8			5	3.548	0.019	0	0.043	0.047	
9			6	3.483	0.02	0	0.043	0.048	
10			7	3.601	0.019	0	0.042	0.048	
11			8	3.555	0.02	0	0.042	0.05	
12			9	3.52	0.019	0	0.043	0.047	
13			10	3.425	0.022	0	0.043	0.053	
14			Avg:	3.523	0.02	0	0.043	0.05	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.523	0.02	0	0.043	0.05	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.453	0.018	0	0.045	0.041	
5			2	3.412	0.017	0	0.046	0.039	
6			3	3.424	0.02	0	0.046	0.044	
7			4	3.543	0.017	0	0.046	0.041	
8			5	3.541	0.017	0	0.046	0.039	
9			6	3.509	0.017	0	0.046	0.04	
10			7	3.462	0.017	0	0.046	0.039	
11			8	3.479	0.018	0	0.046	0.041	
12			9	3.287	0.017	0	0.045	0.038	
13			10	3.363	0.019	0	0.046	0.043	
14			Avg:	3.447	0.018	0	0.046	0.041	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.447	0.018	0	0.046	0.041	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.809	0.017	0	0.041	0.043	
5			2	3.777	0.017	0	0.042	0.042	
6			3	3.754	0.017	0	0.041	0.043	
7			4	3.715	0.018	0	0.041	0.043	
8			5	3.766	0.019	0	0.042	0.047	
9			6	3.78	0.019	0	0.041	0.047	
10			7	3.774	0.017	0	0.042	0.043	
11			8	3.754	0.017	0	0.042	0.042	
12			9	3.756	0.018	0	0.042	0.044	
13			10	3.697	0.017	0	0.042	0.042	
14			Avg:	3.758	0.018	0	0.042	0.044	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.758	0.018	0	0.042	0.044	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.882	0.015	0	0.04	0.04	
5			2	3.942	0.018	0	0.039	0.046	
6			3	3.961	0.015	0	0.039	0.04	
7			4	3.966	0.015	0	0.04	0.039	
8			5	3.917	0.015	0	0.039	0.039	
9			6	3.86	0.015	0	0.04	0.038	
10			7	3.874	0.015	0	0.04	0.039	
11			8	3.778	0.015	0	0.04	0.038	
12			9	3.888	0.015	0	0.039	0.039	
13			10	3.799	0.015	0	0.04	0.038	
14			Avg:	3.887	0.015	0	0.04	0.04	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.887	0.015	0	0.04	0.04	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.731	0.016	0	0.039	0.038	
5			2	3.724	0.018	0	0.039	0.043	
6			3	3.763	0.016	0	0.039	0.039	
7			4	3.685	0.016	0	0.039	0.038	
8			5	3.777	0.016	0	0.039	0.039	
9			6	3.73	0.016	0	0.038	0.038	
10			7	3.755	0.017	0	0.039	0.041	
11			8	3.745	0.018	0	0.038	0.042	
12			9	3.806	0.017	0	0.038	0.04	
13			10	3.843	0.016	0	0.039	0.04	
14			Avg:	3.756	0.017	0	0.039	0.04	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.756	0.017	0	0.039	0.04	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.019	0.016	0	0.04	0.042	
5			2	4.005	0.016	0	0.04	0.041	
6			3	4.016	0.019	0	0.04	0.049	
7			4	4.063	0.016	0	0.039	0.042	
8			5	3.949	0.016	0	0.039	0.042	
9			6	4.01	0.016	0	0.04	0.042	
10			7	4.036	0.018	0	0.039	0.047	
11			8	4.031	0.018	0	0.04	0.046	
12			9	3.997	0.016	0	0.041	0.042	
13			10	3.96	0.018	0	0.04	0.046	
14			Avg:	4.009	0.017	0	0.04	0.044	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.009	0.017	0	0.04	0.044	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 3000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.189	0.014	0	0.043	0.03	
5			2	3.185	0.012	0	0.043	0.027	
6			3	3.255	0.012	0	0.042	0.027	
7			4	3.278	0.012	0	0.042	0.028	
8			5	3.235	0.012	0	0.042	0.027	
9			6	3.264	0.012	0	0.043	0.028	
10			7	3.278	0.015	0	0.042	0.033	
11			8	3.384	0.012	0	0.043	0.028	
12			9	3.421	0.015	0	0.043	0.034	
13			10	3.209	0.012	0	0.042	0.028	
14			Avg:	3.27	0.013	0	0.043	0.029	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.27	0.013	0	0.043	0.029	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 3000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.507	0.014	0	0.045	0.034	
5			2	3.539	0.015	0	0.044	0.038	
6			3	3.4	0.016	0	0.044	0.037	
7			4	3.401	0.014	0	0.045	0.033	
8			5	3.486	0.014	0	0.045	0.034	
9			6	3.409	0.014	0	0.045	0.035	
10			7	3.425	0.014	0	0.045	0.033	
11			8	3.454	0.014	0	0.045	0.035	
12			9	3.435	0.016	0	0.045	0.038	
13			10	3.402	0.015	0	0.045	0.036	
14			Avg:	3.446	0.015	0	0.045	0.035	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.446	0.015	0	0.045	0.035	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 1000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.12	0.016	0	0.044	0.035	
5			2	3.186	0.014	0	0.043	0.032	
6			3	3.133	0.017	0	0.042	0.037	
7			4	3.196	0.015	0	0.042	0.033	
8			5	3.218	0.015	0	0.043	0.033	
9			6	3.164	0.016	0	0.041	0.035	
10			7	3.174	0.016	0	0.042	0.037	
11			8	3.007	0.015	0	0.042	0.032	
12			9	3.062	0.015	0	0.041	0.033	
13			10	3.083	0.014	0	0.042	0.032	
14			Avg:	3.134	0.015	0	0.042	0.034	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.134	0.015	0	0.042	0.034	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 START OF TESTING								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.141	0.018	0	0.043	0.039	
5			2	2.896	0.015	0	0.043	0.032	
6			3	2.845	0.015	0	0.043	0.031	
7			4	2.948	0.014	0	0.043	0.03	
8			5	2.95	0.014	0.005	0.043	0.03	
9			6	2.92	0.015	0	0.043	0.031	
10			7	2.899	0.017	0	0.043	0.034	
11			8	2.953	0.015	0	0.043	0.032	
12			9	2.903	0.015	0.005	0.043	0.031	
13			10	2.874	0.015	0.005	0.043	0.031	
14			Avg:	2.933	0.015	0.002	0.043	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.933	0.015	0.002	0.043	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 1000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.608	0.016	0.006	0.045	0.039	
5			2	3.555	0.016	0.005	0.045	0.038	
6			3	3.553	0.015	0	0.044	0.037	
7			4	3.558	0.015	0.004	0.045	0.037	
8			5	3.56	0.017	0.005	0.044	0.041	
9			6	3.572	0.016	0	0.044	0.039	
10			7	3.615	0.016	0.005	0.045	0.039	
11			8	3.585	0.015	0.004	0.044	0.037	
12			9	3.573	0.015	0.004	0.045	0.038	
13			10	3.559	0.017	0.004	0.044	0.042	
14			Avg:	3.574	0.016	0.004	0.045	0.039	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.574	0.016	0.004	0.045	0.039	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 5000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.236	0.02	0	0.045	0.044	
5			2	3.246	0.015	0	0.041	0.033	
6			3	3.391	0.014	0	0.042	0.034	
7			4	3.185	0.014	0	0.042	0.032	
8			5	3.241	0.013	0	0.041	0.031	
9			6	3.223	0.016	0	0.041	0.036	
10			7	3.269	0.013	0	0.042	0.031	
11			8	3.241	0.014	0	0.042	0.032	
12			9	3.212	0.013	0	0.041	0.031	
13			10	3.345	0.014	0	0.042	0.032	
14			Avg:	3.259	0.015	0	0.042	0.034	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.259	0.015	0	0.042	0.034	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 1000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.988	0.015	0	0.043	0.031	
5			2	2.999	0.015	0	0.043	0.033	
6			3	2.871	0.014	0	0.043	0.029	
7			4	2.838	0.015	0	0.043	0.03	
8			5	2.838	0.014	0	0.042	0.028	
9			6	2.951	0.013	0	0.043	0.028	
10			7	2.999	0.015	0	0.043	0.032	
11			8	3.004	0.014	0	0.043	0.03	
12			9	2.926	0.014	0	0.043	0.031	
13			10	2.973	0.015	0	0.043	0.031	
14			Avg:	2.939	0.014	0	0.043	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.939	0.014	0	0.043	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 1000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.414	0.018	0	0.046	0.045	
5			2	3.408	0.016	0	0.044	0.038	
6			3	3.353	0.016	0	0.045	0.036	
7			4	3.351	0.016	0	0.045	0.036	
8			5	3.439	0.017	0	0.045	0.039	
9			6	3.442	0.016	0	0.045	0.037	
10			7	3.369	0.016	0	0.045	0.036	
11			8	3.389	0.016	0	0.045	0.039	
12			9	3.372	0.016	0	0.045	0.037	
13			10	3.471	0.015	0	0.045	0.036	
14			Avg:	3.401	0.016	0	0.045	0.038	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.401	0.016	0	0.045	0.038	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 6000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.092	0.019	0	0.042	0.04	
5			2	3.197	0.016	0	0.041	0.035	
6			3	3.134	0.014	0	0.041	0.031	
7			4	3.124	0.014	0	0.042	0.031	
8			5	3.164	0.016	0	0.04	0.035	
9			6	3.159	0.015	0	0.041	0.033	
10			7	3.189	0.014	0	0.04	0.032	
11			8	3.142	0.014	0	0.041	0.03	
12			9	3.166	0.014	0	0.042	0.031	
13			10	3.149	0.014	0	0.041	0.032	
14			Avg:	3.152	0.015	0	0.041	0.033	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.152	0.015	0	0.041	0.033	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 1000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.101	0.014	0	0.043	0.03	
5			2	3.023	0.012	0	0.043	0.024	
6			3	2.953	0.013	0	0.042	0.027	
7			4	3.009	0.012	0	0.042	0.026	
8			5	2.982	0.012	0	0.042	0.026	
9			6	3.009	0.012	0	0.042	0.026	
10			7	2.98	0.012	0	0.042	0.026	
11			8	2.985	0.011	0	0.043	0.024	
12			9	3.02	0.014	0	0.043	0.028	
13			10	2.988	0.011	0	0.043	0.024	
14			Avg:	3.005	0.012	0	0.043	0.026	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.005	0.012	0	0.043	0.026	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 7000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.524	0.014	0	0.045	0.034	
5			2	3.481	0.018	0	0.045	0.042	
6			3	3.477	0.017	0	0.045	0.042	
7			4	3.446	0.017	0	0.044	0.039	
8			5	3.591	0.017	0	0.045	0.041	
9			6	3.463	0.017	0	0.045	0.041	
10			7	3.309	0.018	0	0.045	0.042	
11			8	3.493	0.016	0	0.045	0.038	
12			9	3.5	0.016	0	0.045	0.039	
13			10	3.436	0.016	0	0.045	0.038	
14			Avg:	3.472	0.017	0	0.045	0.04	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.472	0.017	0	0.045	0.04	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 6000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.279	0.017	0	0.042	0.038	
5			2	3.218	0.016	0	0.042	0.035	
6			3	3.2	0.017	0.006	0.042	0.036	
7			4	3.254	0.018	0.005	0.043	0.04	
8			5	3.231	0.016	0.005	0.042	0.036	
9			6	3.253	0.016	0.006	0.043	0.035	
10			7	3.337	0.018	0	0.043	0.039	
11			8	3.265	0.016	0	0.042	0.036	
12			9	3.296	0.016	0.005	0.043	0.035	
13			10	3.297	0.018	0	0.043	0.039	
14			Avg:	3.263	0.017	0.003	0.043	0.037	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.263	0.017	0.003	0.043	0.037	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 1000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.32	0.014	0	0.043	0.031	
5			2	3.324	0.013	0	0.043	0.03	
6			3	3.358	0.013	0	0.043	0.03	
7			4	3.204	0.013	0	0.043	0.029	
8			5	3.255	0.013	0	0.043	0.029	
9			6	3.166	0.015	0	0.043	0.033	
10			7	3.258	0.013	0	0.043	0.03	
11			8	3.308	0.014	0	0.043	0.03	
12			9	3.253	0.013	0	0.043	0.03	
13			10	3.295	0.014	0	0.043	0.03	
14			Avg:	3.274	0.014	0	0.043	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.274	0.014	0	0.043	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 8000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.487	0.018	0	0.046	0.043	
5			2	3.442	0.018	0	0.045	0.042	
6			3	3.413	0.018	0	0.046	0.041	
7			4	3.439	0.017	0	0.045	0.041	
8			5	3.414	0.016	0	0.045	0.038	
9			6	3.414	0.017	0	0.045	0.039	
10			7	3.387	0.016	0	0.045	0.038	
11			8	3.447	0.017	0	0.045	0.04	
12			9	3.479	0.016	0	0.046	0.038	
13			10	3.484	0.016	0	0.045	0.039	
14			Avg:	3.441	0.017	0	0.045	0.04	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.441	0.017	0	0.045	0.04	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 6000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.324	0.017	0.008	0.043	0.038	
5			2	3.399	0.017	0.006	0.043	0.037	
6			3	3.449	0.018	0.006	0.042	0.039	
7			4	3.427	0.017	0.006	0.043	0.037	
8			5	3.602	0.016	0.006	0.043	0.038	
9			6	3.453	0.017	0.006	0.043	0.038	
10			7	3.466	0.017	0.006	0.043	0.038	
11			8	3.38	0.016	0.006	0.043	0.036	
12			9	3.629	0.017	0.007	0.044	0.04	
13			10	3.68	0.019	0.006	0.043	0.045	
14			Avg:	3.481	0.017	0.006	0.043	0.039	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.481	0.017	0.006	0.043	0.039	0.00 ms

2	**Engineer:**	Jim Ronkainen			**Project #:**	241460		**TLW #:**	2170							
4	**Date Submitted:**	3/16/2007					**Requested Completion Date:**		4/23/2007							
6	**Completion Date Justification:**															
9	**Test Description:**	Conduct Design Acceptance Testing on the 40X XMP trigger assembly using the XR100 Targetmaster as the test vehicle.														
13	**Test Procedure:**	Conduct the DAT per the plan provided by Jim Snedeker. SEE FLOW CHART														

Special Requirements:	
Supplies Availability:	
Results Required:	Formal Report

********This section to be completed by Test Lab Manager*******

Assigned To:		**Start Date:**	3/19/2007
Assigned Date:	3/16/2007	**Completion Date:**	

Comments:

	R	S	T	U	V	W
38						
39						
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41						
42						
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45						
46						
47						
48						
49						
50						
51					Data Only	
52					Formal Report	
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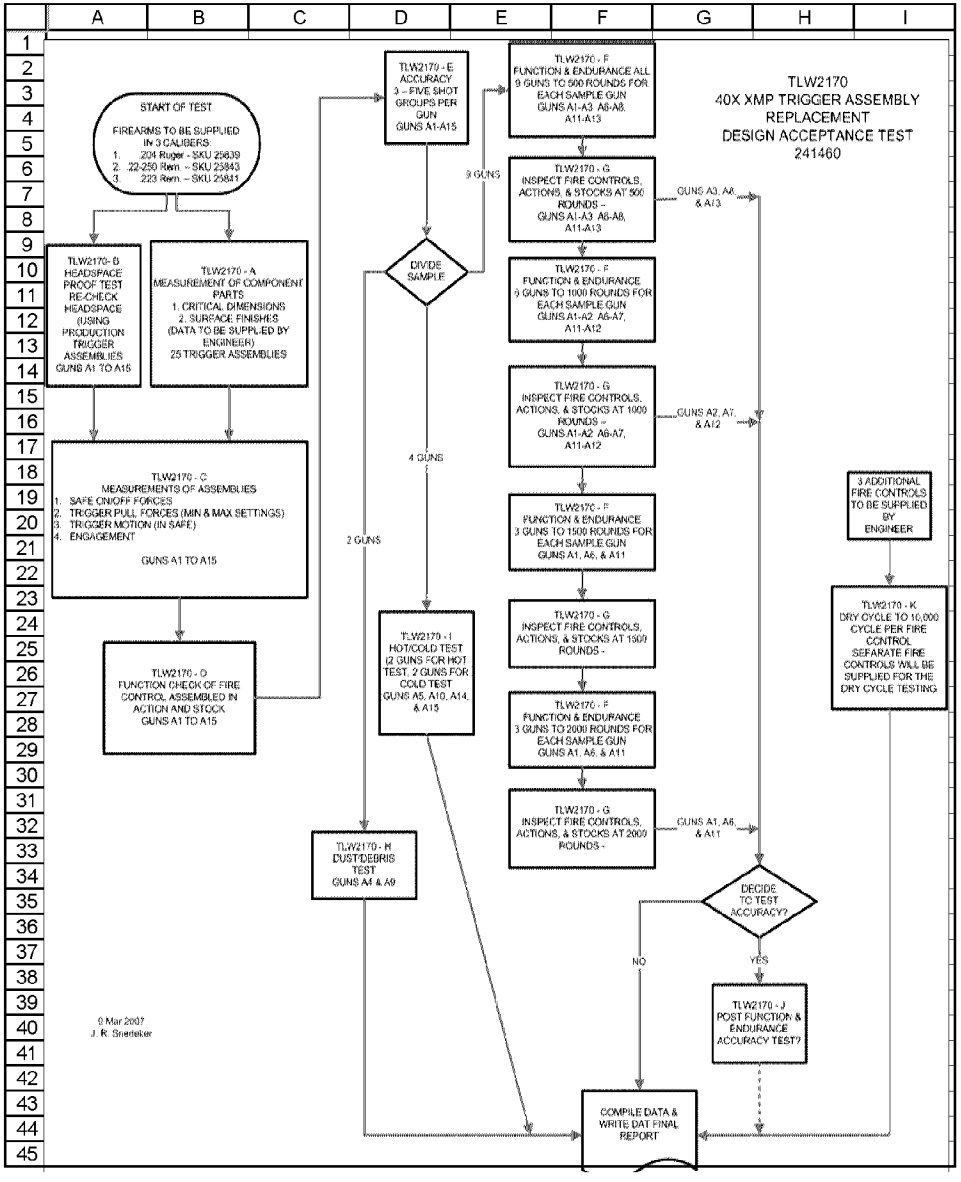
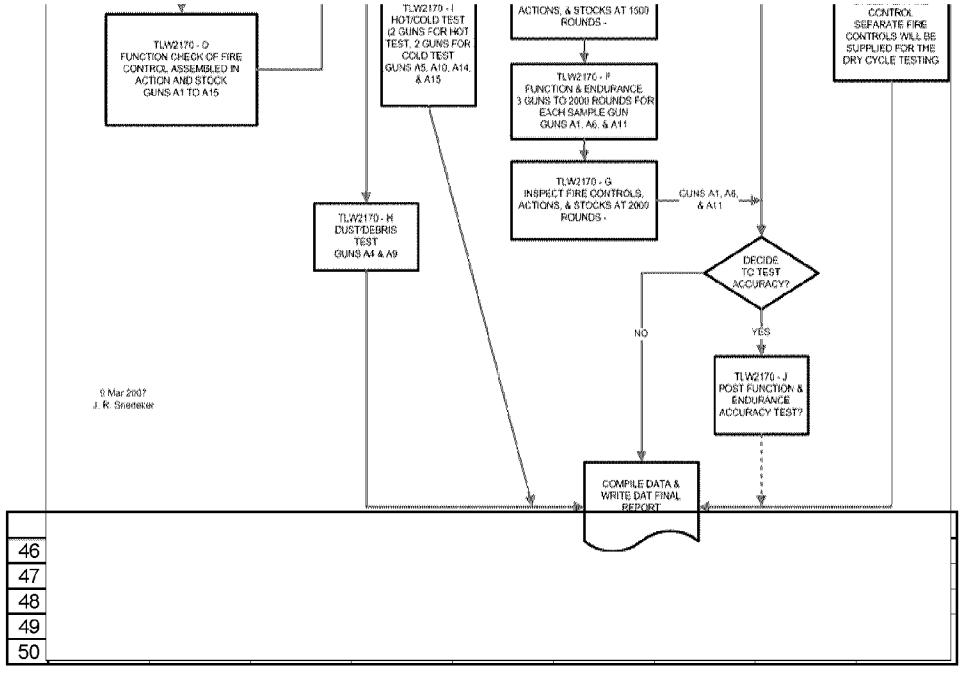

TLW2170
40X XMP TRIGGER ASSEMBLY
REPLACEMENT
DESIGN ACCEPTANCE TEST
241460
START OF TEST
FIREARMS TO BE SUPPLIED IN 3 CALIBERS
1. 204 Ruger - SKU 25639
2. 22-250 Rem. - SKU 25843
3. 223 Rem. - SKU 25841
TLW2170- B HEADSPACE PROOF TEST RE-CHECK HEADSPACE (USING PRODUCTION TRIGGER ASSEMBLIES GUNS A1 TO A15
TLW2170 - A MEASUREMENT OF COMPONENT PARTS
1. CRITICAL DIMENSIONS
2. SURFACE FINISHES
(DATA TO BE SUPPLIED BY ENGINEER)
25 TRIGGER ASSEMBLIES
TLW2170 - C MEASUREMENTS OF ASSEMBLIES
1. SAFE ON/OFF FORCES
2. TRIGGER PULL FORCES (MIN & MAX SETTINGS)
3. TRIGGER MOTION (IN SAFE)
4. ENGAGEMENT
GUNS A1 TO A15
TLW2170 - D FUNCTION CHECK OF FIRE CONTROL ASSEMBLED IN ACTION AND STOCK GUNS A1 TO A15
TLW2170 - E ACCURACY 3 – FIVE SHOT GROUPS PER GUN GUNS A1-A15
DIVIDE SAMPLE
9 GUNS
4 GUNS
2 GUNS
TLW2170 - I HOT/COLD TEST (2 GUNS FOR HOT TEST, 2 GUNS FOR COLD TEST GUNS A5, A10, A14, & A15
TLW2170 - H DUST/DEBRIS TEST GUNS A4 & A9
TLW2170 - F FUNCTION & ENDURANCE ALL 9 GUNS TO 500 ROUNDS FOR EACH SAMPLE GUN GUNS A1-A3, A6-A8, A11-A13
TLW2170 - G INSPECT FIRE CONTROLS, ACTIONS, & STOCKS AT 500 ROUNDS – GUNS A1-A3, A6-A8, A11-A13
GUNS A3, A8, & A13
TLW2170 - F FUNCTION & ENDURANCE 9 GUNS TO 1000 ROUNDS FOR EACH SAMPLE GUN GUNS A1-A2, A6-A7, A11-A12
TLW2170 - G INSPECT FIRE CONTROLS, ACTIONS, & STOCKS AT 1000 ROUNDS – GUNS A1-A2, A6-A7, A11-A12
GUNS A2, A7, & A12
TLW2170 - F FUNCTION & ENDURANCE 3 GUNS TO 1500 ROUNDS FOR EACH SAMPLE GUN GUNS A1, A6, & A11
TLW2170 - G INSPECT FIRE CONTROLS, ACTIONS, & STOCKS AT 1500 ROUNDS -
TLW2170 - F FUNCTION & ENDURANCE 3 GUNS TO 2000 ROUNDS FOR EACH SAMPLE GUN GUNS A1, A6, & A11
TLW2170 - G INSPECT FIRE CONTROLS, ACTIONS, & STOCKS AT 2000 ROUNDS -
GUNS A1, A6, & A11
DECIDE TO TEST ACCURACY?
NO
YES
TLW2170 - J POST FUNCTION & ENDURANCE ACCURACY TEST?
3 ADDITIONAL FIRE CONTROLS TO BE SUPPLIED BY ENGINEER
TLW2170 - K DRY CYCLE TO 10,000 CYCLE PER FIRE CONTROL SEPARATE FIRE CONTROLS WILL BE SUPPLIED FOR THE DRY CYCLE TESTING
COMPILE DATA & WRITE DAT FINAL REPORT
9 Mar 2007
J. R. Snedeker


TLW2170 - D
FUNCTION CHECK OF FIRE CONTROL ASSEMBLED IN ACTION AND STOCK
GUNS A1 TO A15
TLW2170 - I
HOT/COLD TEST
(2 GUNS FOR HOT TEST, 2 GUNS FOR COLD TEST
GUNS A5, A10, A14, & A15
ACTIONS, & STOCKS AT 1500 ROUNDS -
TLW2170 - F
FUNCTION & ENDURANCE
3 GUNS TO 2000 ROUNDS FOR EACH SAMPLE GUN
GUNS A1, A6, & A11
TLW2170 - G
INSPECT FIRE CONTROLS, ACTIONS, & STOCKS AT 2000 ROUNDS -
GUNS A1, A6, & A11
CONTROL
SEPARATE FIRE CONTROLS WILL BE SUPPLIED FOR THE DRY CYCLE TESTING
TLW2170 - H
DUST/DEBRIS TEST
GUNS A4 & A9
DECIDE TO TEST ACCURACY?
NO
YES
TLW2170 - J
POST FUNCTION & ENDURANCE ACCURACY TEST?
9 Mar 2007
J. R. Snedeker
COMPILE DATA & WRITE DAT FINAL REPORT
46
47
48
49
50

	A	B	C	D	E	F	G
1	**GUN #**	**SERIAL #**	**CALIBER**	**HEADSPACE**	**PROOF**	**HEADSPACE**	**COMMENTS**
2	**A-1**	7813826	.204 RUGER	GO	SEE NOTE	GO	high pressure - 2 rds. - replaced bolt
3	**A-2**	7813859	.204 RUGER	GO	SEE NOTE	GO	high pressure -broke extractor- 1 rd.- replaced bolt
4	**A-3**	7813717	.204 RUGER	GO	SEE NOTE	GO	high pressure - 1 rd.
5	**A-4**	7815650	.204 RUGER	GO	SEE NOTE	GO	high pressure -broke extractor- 1 rd. - replaced bolt
6	**A-5**	7824564	.204 RUGER	GO	SEE NOTE	GO	
7							*NOTE* shoot 20 rounds service ammo with lanyard
8							and determine if any pressure issues
9							
10	**A-6**	7824563	.22-250 REM	min. + .002	OK	min. + .002	
11	**A-7**	7824516	.22-250 REM	min. + .003	OK	min. + .004	
12	**A-8**	7824427	.22-250 REM	min. + .002	OK	min. + .003	
13	**A-9**	7824613	.22-250 REM	min. + .002	OK	min. + .002	
14	**A-10**	7824432	.22-250 REM	min. + .002	OK	min. + .002	
15							
16							
17	**A-11**	7814291	.223 REM	min. + .004	OK	min. + .004	
18	**A-12**	7814769	.223 REM	min. + .007	OK	min. + .007	
19	**A-13**	7813898	.223 REM	min. + .003	OK	min. + .003	
20	**A-14**	7814631	.223 REM	min. + .005	OK	min. + .005	
21	**A-15**	7813470	.223 REM	min. + .004	OK	min. + .004	

	A	B	C	D	E	F	G	H	I	J
1		SAFETY OFF TO ON FORCE					SAFETY ON TO OFF FORCE			
2	GUN #	1	2	3	AVG.		1	2	3	AVG.
3	A-1	2.485	2.460	2.450	2.465		3.710	3.730	3.700	3.713
4	A-2	2.390	2.395	2.385	2.390		3.175	3.150	3.160	3.162
5	A-3	2.145	2.120	2.135	2.133		2.800	2.815	2.790	2.802
6	A-4	2.805	2.825	2.815	2.815		2.815	3.800	3.795	3.803
7	A-5	2.515	2.510	2.520	2.515		3.490	3.445	3.495	3.477
8										
9	A-6	2.405	2.445	2.445	2.432		3.355	3.385	3.365	3.368
10	A-7	2.450	2.400	2.425	2.425		3.110	3.120	3.150	3.127
11	A-8	2.440	2.470	2.490	2.467		3.160	3.195	3.140	3.165
12	A-9	2.580	2.530	2.550	2.553		3.210	3.165	3.235	3.203
13	A-10	2.465	2.430	2.420	2.438		3.185	3.155	3.125	3.155
14										
15	A-11	2.450	2.440	2.455	2.448		3.335	3.415	3.385	3.378
16	A-12	2.810	2.805	2.795	2.803		3.430	3.375	3.415	3.407
17	A-13	2.935	2.935	2.895	2.922		3.805	3.815	3.810	3.810
18	A-14	2.480	2.465	2.455	2.467		3.500	3.475	3.420	3.465
19	A-15	2.515	2.515	2.450	2.493		3.470	3.445	3.415	3.443
20	A-12 (XMP19)	2.325	2.270	2.275	2.290		2.880	2.870	2.900	2.883

	A	B	C	D
1	Date:	23-Mar-07		
2	Shooter:	J. Sims		
3	Note: All shots were recorded @ 100yds. (3-5shot groups), utilized Leupold 16 X Mark 4 scope, shot from bench.			
4				
5	Ammo type: 22-250= R22501			
6		223= R223R1		
7		.204 RUGER = PRA204B		
8				
9				**Caliber**
10		**Gun #**	**A-1**	.204 RUGER
11			**A-2**	.204 RUGER
12			**A-3**	.204 RUGER
13			**A-4**	.204 RUGER
14			**A-5**	.204 RUGER
15				
16			**A-6**	22-250
17			**A-7**	22-250
18			**A-8**	22-250
19			**A-9**	22-250
20			**A-10**	22-250
21				
22			**A-11**	223
23			**A-12**	223
24			**A-13**	223
25			**A-14**	223
26			**A-15**	223
27				

	E	F	G	H	I
1					
2					
3					
4					
5					
6					
7					
8					
9	**Grp. 1**	**Grp. 2**	**Grp. 3**	**Avg.**	
10	1.65	1.5	1.25	**1.467**	
11	0.95	1.45	0.75	**1.05**	
12	1.7	2	1.85	**1.85**	
13	0.6	1.7	0.75	**1.017**	
14	3.85	2.6	2	**2.817**	
15				1.64	Avg.
16	1.1	1.2	1.7	**1.333**	
17	1.15	1.05	1.35	**1.183**	
18	1.7	1.2	1	**1.3**	
19	1.05	1.45	1.3	**1.267**	
20	0.85	1.4	1.1	**1.117**	
21				1.24	Avg.
22	1.65	0.85	1.65	**1.383**	
23	1.35	1.1	1.55	**1.333**	
24	1.5	1.25	1.05	**1.267**	
25	0.8	1.4	1.55	**1.25**	
26	1.6	1.4	0.75	**1.25**	
27				1.2966	Avg.

	A	B	C	D	E	F
1	**TLW2170-H**					
2	DYNAMIC SAND AND DUST TEST					
3	BY; Jeff Wade & Steve Wade					
4	4/4/2007					
5						
6	**GUNS**					
7	A-4 .204 RUGER		**primed case test**	passed	**20 rounds live fire test**	passed
8	A-9 .22-250		**primed case test**	passed	**20 rounds live fire test**	passed
9						
10	85 psi line pressure		0 weight of debris after test			

	A	B	C
1	Part Name:	Primary Trigger Pull Spring	
2	Drawing Num:	301427	
3	TLW Number:	241460	
4	Revision Level:	A	
5	Vendor:	Industrial Spring of St Louis	
6	Requisition #:		
7	Material:	Music Wire	
8	Hardness:		
9	Metallurgist:		
10	Engineer:	JIM RONKAINEN	
11	Inspected by:	Ronkainen	
12	Date:	12/7/2006	
13	Reviewed by:	JR	
14	Date:	12/11/2006	
15			
16			
17			
18			
19	**identifier**	**feature description**	**DIM**
20	A	OD	**0.115**
21	B	Wire Diameter	**0.0160**
22	C	Free Length	**0.240**
23	D	L1@.220	**0.400**
24	E	L2@.185	**1.000**
25	F	Wind Direction	**LH**
26	G	Ends	**C&G**
27			
28			**OHL**
29			**ULL**

	D	E
1		
2	NOTE- Dimension identifiers will be provided on the prints supplied by engineering & the CAD group.	
3		
4	INSTRUCTIONS:	
5	1. DO NOT STAMP PARTS WITH AN I.D, NUMBER.	
6	2. SEPARATE NON-CONFORMING PARTS.	
7	3. ENTER FEATURE DESCRIPTIONS WHEN POSSIBLE. (OPTIONAL)	
8	4. WHEN COMPLETE, RETURN ALL PARTS TO ENGINEER IN ORIGINAL SHIPPING CARTON (IF POSSIBLE) AND DRAWING WITH IDENTIFIERS.	
9		
10	INSPECTOR NOTES: Parts not individually bagged or identified for traceability after measurement.	
11		
12		
13		
14		
15		
16		
17		
18		
19	**plus**	**minus**
20	0.005	0.005
21	0.001	0.001
22		MIN
23	0.040	0.040
24	0.100	0.100
25		
26		
27		
28	=Over High Limit	
29	=Under Low Limit	

	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1															
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3															
4															
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15															
16															
17															
18															
19	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
20	0.1180	0.1180	0.1180	0.1180	0.1180	0.1180	0.1180	0.1180	0.1180	0.1180	0.1180	0.1180	0.1180	0.1180	0.1170
21	0.0159	0.0159	0.0159	0.0160	0.0159	0.0160	0.0159	0.0158	0.0158	0.0159	0.0158	0.0158	0.0157	0.0158	0.0159
22	0.2585	0.2530	0.2558	0.2497	0.2469	0.2457	0.2507	0.2495	0.2520	0.2637	0.2495	0.2466	0.2542	0.2560	0.2479
23	0.370	0.435	0.425	0.365	0.420	0.420	0.440	0.410	0.375	0.435	0.415	0.375	0.365	0.395	0.375
24	0.905	0.935	0.925	0.900	0.940	0.905	0.950	0.915	0.930	0.935	0.910	0.910	0.910	0.920	0.915
25	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
26	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
27															
28															
29															

	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI
1															
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16															
17															
18															
19	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**AVG**
20	0.1180	0.1180	0.1180	0.1180	0.1175	0.1180	0.1180	0.1180	0.1180	0.1175	0.1180	0.1180	0.1180	0.1180	0.1179
21	0.0158	0.0157	0.0158	0.0159	0.0160	0.0159	0.0157	0.0160	0.0158	0.0158	0.0159	0.0159	0.0158	0.0157	0.0158
22	0.2574	0.2484	0.2601	0.2566	0.2546	0.2472	0.2501	0.2579	0.2552	0.2506	0.2520	0.2496	0.2472	0.2484	0.2527
23	0.400	0.375	0.365	0.410	0.385	0.375	0.415	0.385	0.380	0.420	0.375	0.380	0.385	0.405	0.397
24	0.920	0.900	0.920	0.920	0.905	0.915	0.935	0.910	0.900	0.930	0.915	0.900	0.920	0.940	0.9184
25	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	
26	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	
27															
28															
29															

	AJ	AK	AL	AM	AN	AO	AP
1							
2							
3							
4							
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8							
9							
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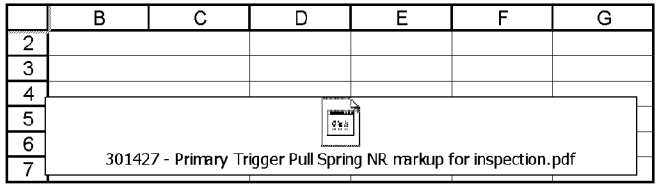
11							
12							
13							
14							
15							
16							
17							
18							
19	**STDEV**	**Method**					
20	0.0002	Mic					
21	0.0001	MV					
22	0.0046	MV					
23	0.024	Chatillon					
24	0.0138	Chatillon					
25		Visual					
26		Visual					
27							
28							
29							


B
C
D
E
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2
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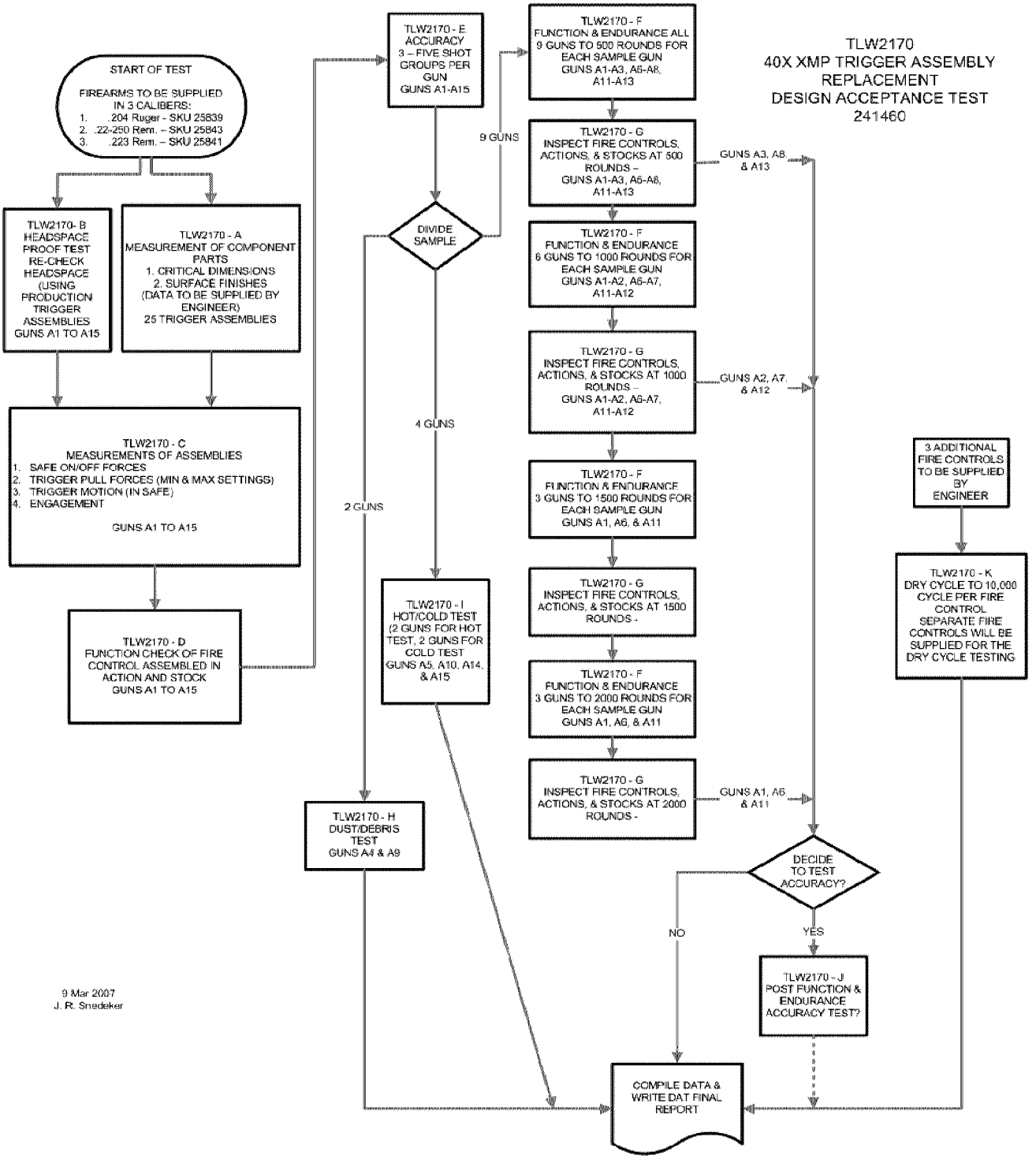
6
7
301427 - Primary Trigger Pull Spring NR markup for inspection.pdf

Conduct the DAT per the plan provided by Jim Snedeker.

SEE FLOW CHART

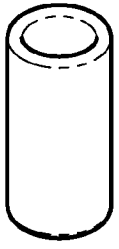

TLW2170
40X XMP TRIGGER ASSEMBLY
REPLACEMENT
DESIGN ACCEPTANCE TEST
241460
START OF TEST
FIREARMS TO BE SUPPLIED IN 3 CALIBERS:
1. .204 Ruger - SKU 25839
2. .22-250 Rem. – SKU 25843
3. .223 Rem. – SKU 25841
TLW2170- B HEADSPACE PROOF TEST RE-CHECK HEADSPACE (USING PRODUCTION TRIGGER ASSEMBLIES GUNS A1 TO A15
TLW2170 - A MEASUREMENT OF COMPONENT PARTS
1. CRITICAL DIMENSIONS
2. SURFACE FINISHES
(DATA TO BE SUPPLIED BY ENGINEER)
25 TRIGGER ASSEMBLIES
TLW2170 - C
MEASUREMENTS OF ASSEMBLIES
1. SAFE ON/OFF FORCES
2. TRIGGER PULL FORCES (MIN & MAX SETTINGS)
3. TRIGGER MOTION (IN SAFE)
4. ENGAGEMENT
GUNS A1 TO A15
TLW2170 - D
FUNCTION CHECK OF FIRE CONTROL ASSEMBLED IN ACTION AND STOCK
GUNS A1 TO A15
TLW2170 - E
ACCURACY
3 – FIVE SHOT GROUPS PER GUN
GUNS A1-A15
DIVIDE SAMPLE
9 GUNS
4 GUNS
2 GUNS
TLW2170 - I
HOT/COLD TEST
(2 GUNS FOR HOT TEST, 2 GUNS FOR COLD TEST
GUNS A5, A10, A14, & A15
TLW2170 - H
DUST/DEBRIS TEST
GUNS A4 & A9
TLW2170 - F
FUNCTION & ENDURANCE ALL 9 GUNS TO 500 ROUNDS FOR EACH SAMPLE GUN
GUNS A1-A3, A6-A8, A11-A13
TLW2170 - G
INSPECT FIRE CONTROLS, ACTIONS, & STOCKS AT 500 ROUNDS –
GUNS A1-A3, A6-A8, A11-A13
GUNS A3, A8, & A13
TLW2170 - F
FUNCTION & ENDURANCE
6 GUNS TO 1000 ROUNDS FOR EACH SAMPLE GUN
GUNS A1-A2, A6-A7, A11-A12
TLW2170 - G
INSPECT FIRE CONTROLS, ACTIONS, & STOCKS AT 1000 ROUNDS –
GUNS A1-A2, A6-A7, A11-A12
GUNS A2, A7, & A12
TLW2170 - F
FUNCTION & ENDURANCE
3 GUNS TO 1500 ROUNDS FOR EACH SAMPLE GUN
GUNS A1, A6, & A11
TLW2170 - G
INSPECT FIRE CONTROLS, ACTIONS, & STOCKS AT 1500 ROUNDS -
TLW2170 - F
FUNCTION & ENDURANCE
3 GUNS TO 2000 ROUNDS FOR EACH SAMPLE GUN
GUNS A1, A6, & A11
TLW2170 - G
INSPECT FIRE CONTROLS, ACTIONS, & STOCKS AT 2000 ROUNDS -
GUNS A1, A6, & A11
3 ADDITIONAL FIRE CONTROLS TO BE SUPPLIED BY ENGINEER
TLW2170 - K
DRY CYCLE TO 10,000 CYCLE PER FIRE CONTROL
SEPARATE FIRE CONTROLS WILL BE SUPPLIED FOR THE DRY CYCLE TESTING
DECIDE TO TEST ACCURACY?
NO
YES
TLW2170 - J
POST FUNCTION & ENDURANCE ACCURACY TEST?
COMPILE DATA & WRITE DAT FINAL REPORT
9 Mar 2007
J. R. Snedeker

SHEET SIZE	NUMBER	REMINGTON ARMS CO., INC. Madison, NC 27025		
A	301427	SCALE 5X	SUPERSEDES	REFERENCE

TITLE SPRING, PRIMARY TRIGGER PULL SPRING

DES. BY DATE	DRN. BY DATE	CHK. BY DATE
JWR 04-05-05	JWR 10-05-06	

MODEL	PART NO.	PART USE
	301427	PRIMARY TRIGGER PULL SPRING



A	REDRAWN		JWR	10-5-06
ALT.	WAS	REF.	BY	DATE
ALTERATIONS				

THIS DRAWING OR INFORMATION IS PROPRIETARY NFORMATION TO THE REMINGTON ARMS COMPANY, INC.

MATERIAL AND HEAT TREAT

MATERIAL : MUSIC WIRE (ASTM A228)

HEAT TREAT : STRESS RELIEVE

FINISH : OIL

INSPECTION

1. TO WORK FREELY IN A 0.120 DIA. HOLE.
2. TO WORK FREELY ON A 0.080 DIA. PIN.
3. LOAD 0.36 TO 0.44 LB. AT 0.220 (L1) D
   LOAD 0.9 TO 1.1 LB. AT 0.185 (L2) E
4. SOLID HEIGHT 0.150 MAX. 5. WIND LEFT HAND F
6. FREE LENGTH 0.240 MIN. C 7. ENDS CLOSED & GROUND G
8. CHECK HERE FOR NON-COMMERCIAL TOLERANCES ☐

MANUFACTURE

9. WIRE DIA. 0.016 B 10. FREE LENGTH 0.243
11. OUTSIDE DIA. 0.115 A 12. COILS: ACTIVE 5.7
13. CHECK HERE FOR SET REMOVAL ☐ TOTAL 7.7

DESIGN DATA

14. SPRING RATE 17.1 LB/IN.
15. STATIC STRESS AT SOLID 158440 LB./SQ.IN.
16. DYNAMIC STRESS 0 LB./SQ.IN.
17. TOTAL STRESS AT SOLID 158440 LB./SQ.IN.
18. SOLID LOAD 2.06 LBS.
19. SPRING INDEX 6.188
20. TORSIONAL MODULUS 11.5E6 LB./SQ.IN.
21. CURVATURE CORRECTION FACTOR 1.244 (WAHL)
22. VELOCITY IMPACTING MASS 0 IN./SEC.
23. CRITICAL FREQUENCY 3997 HZ.
24. TOTAL STRESS AS % OF TENSILE STRENGTH 41%
25. ENERGY FROM L1 TO L2 0.0245 IN-LBS.

THIS SPRING MUST MEET THE REQUIREMENTS IN THE INSPECTION SECTION. FIGURES GIVEN IN THE MANUFACTURE SECTION INDICATE THE PREFERRED SPRING. THE MANUFACTURER MAY, WITH PRIOR APPROVAL, DEVIATE FROM THESE FIGURES. FIGURES IN THE DESIGN DATA SECTION ARE BASED ON THOSE IN THE MANUFACTURE SECTION.

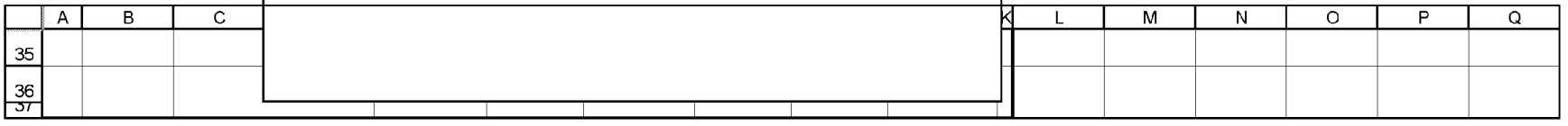
SOLIDWORKS FILE : 301427 - Primary Trigger Pull Spring

NOT RELEASED FOR PRODUCTION

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

Engineer:	Ronkainen	**Project #:** 241460 **TLW #:** 2328
Date Submitted:	7/29/2007	**Requested Completion Date:** 8/10/2007
Completion Date Justification:		
Test Description:	Conduct a limited scope Design Acceptance Test (DAT) on the 40X XMP trigger assembly on Model 700 Varmint Rifles. This DAT is an add-on to the previously conducted successful DAT of the same trigger assembly on the XR-100.
Test Procedure:	Conduct a limited scope DAT on the 40X XMP trigger assembly on Model 700 varmint rifles. The limited scope test includes only the following tests: ▪ SAAMI Jar-Off on 15 guns ▪ SAAMI Rotation on 15 guns ▪ SAAMI Drop testing on 15 guns ▪ SAAMI 40 lb Safety Testing on 1 gun ▪ 500 rounds of endurance on one Model 700 Sendero (300 Win Mag). Preliminary measurements and settings have been made and recorded for all trigger assemblies prior to commencement of testing. Please contact me to make any measurements between testing cycles.

to make any measurements between testing cycles.



	A	B	C	K	L	M	N	O	P	Q
35										
36										
37										

Special Requirements:		
Supplies Availability:	All rifles and ammunition are on-hand and ready for testing.	
Results Required:	Formal Report	
******This section to be completed by Test Lab Manager*****		
Assigned To:	Steve W. & Jonathan S.	**Start Date:**
Assigned Date:	7/31/2007	**Completion Date:**
Comments:		

	R	S	T	U	V	W
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						
48						
49						
50						
51					Data Only	
52					Formal Report	
53						
54						
55						
56						
57						
58						
59						
60						
61						

	A	B	C	D	E	F	G	H	I	J
1									TLW 2328	
2	**B-1**								Project #: 241460	
3	**SAAMI Jar-Off Test**									
4	Serial #:		G6445889		Model: 700 VLS				Date:	7/30/2007
5		Trigger Assembly Type:	40X XMP		Trigger Assembly #: 40X XMP B1				Stock Type:	Laminated wood
6		Previous Rds/Cycles:	0		Caliber: 243 Win					
7	***Start:***									
8		Engagement:	0.0191			Trigger Pull:	3.100			
9			0.0190				3.072			
10			0.0191				3.015			
11		Average:	**0.0191**				3.057			
12							3.042			
13		TMIS:	0.004				3.046			
14			0.004				3.031			
15			0.004				3.188			
16		Average:	**0.004**				3.078			
17							2.953			
18						Average:	**3.058**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	**X**					
26				Barrel Vertical, Muzzle Down:	**X**					
27				Barrel Horizontal, Left Side Up:	**X**					
28				Barrel Horizontal, Right Side Up:	**X**					
29				Barrel Horizontal, Bottom Side Up:	**X**					
30				Barrel Horizontal, Bottom Side Down:	**X**					
31				Tester's Initials:	SW/JS		7/31/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0190			Trigger Pull:	3.137			
41			0.0190				3.066			
42			0.0190				3.021			
43		Average:	**0.0190**				2.996			

	A	B	C	D	E	F	G	H	I	J
44							2.964			
45		TMIS:	0.007				3.066			
46			0.007				3.007			
47			0.007				3.144			
48		Average:	**0.007**				3.059			
49							3.101			
50						Average:	**3.056**			

	A	B	C	D	E	F	G	H	I	J
1									TLW 2328	
2	**B-2**								Project #: 241460	
3	**SAAMI Jar-Off Test**									
4	Serial #:		G6446030		Model: 700 VLS				Date:	7/30/2007
5		Trigger Assembly Type:	40X XMP		Trigger Assembly #: 40X XMP B2				Stock Type:	Laminated wood
6		Previous Rds/Cycles:	0		Caliber: 243 Win					
7	***Start:***									
8		Engagement:	0.0190				Trigger Pull:	3.085		
9			0.0190					3.031		
10			0.0190					3.061		
11		Average:	**0.0190**					3.057		
12								3.046		
13		TMIS:	0.005					3.039		
14			0.005					3.139		
15			0.005					3.058		
16		Average:	**0.005**					3.082		
17								3.065		
18							Average:	**3.066**		
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	**X**					
26				Barrel Vertical, Muzzle Down:	**X**					
27				Barrel Horizontal, Left Side Up:	**X**					
28				Barrel Horizontal, Right Side Up:	**X**					
29				Barrel Horizontal, Bottom Side Up:	**X**					
30				Barrel Horizontal, Bottom Side Down:	**X**					
31				Tester's Initials:	SW/JS		7/31/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0190				Trigger Pull:	3.050		
41			0.0191					2.999		
42			0.0192					2.950		
43		Average:	**0.0191**					3.081		

	A	B	C	D	E	F	G	H	I	J
44							3.081			
45		TMIS:	0.007				3.006			
46			0.007				2.920			
47			0.007				2.965			
48		Average:	**0.007**				2.913			
49							3.074			
50						Average:	**3.004**			

	A	B	C	D	E	F	G	H	I	J
1									TLW 2328	
2	**B-3**								Project #: 241460	
3	**SAAMI Jar-Off Test**									
4	Serial #:		G6446152		Model: 700 VLS			Date:	7/30/2007	
5		Trigger Assembly Type:	40X XMP		Trigger Assembly #: 40X XMP B5			Stock Type:	Laminated wood	
6		Previous Rds/Cycles:	0		Caliber: 243 Win					
7	***Start:***									
8		Engagement:	0.0192			Trigger Pull:	2.985			
9			0.0191				2.980			
10			0.0192				3.048			
11		Average:	**0.0192**				3.065			
12							2.961			
13		TMIS:	0.004				3.042			
14			0.004				3.012			
15			0.004				3.107			
16		Average:	**0.004**				3.072			
17							3.115			
18						Average:	**3.039**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	**X**					
26				Barrel Vertical, Muzzle Down:	**X**					
27				Barrel Horizontal, Left Side Up:	**X**					
28				Barrel Horizontal, Right Side Up:	**X**					
29				Barrel Horizontal, Bottom Side Up:	**X**					
30				Barrel Horizontal, Bottom Side Down:	**X**					
31				Tester's Initials:	SW/JW		7/31/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0193			Trigger Pull:	3.045			
41			0.0191				3.064			
42			0.0191				2.902			
43		Average:	**0.0192**				3.090			

	A	B	C	D	E	F	G	H	I	J
44							3.003			
45		TMIS:	0.007				3.085			
46			0.007				2.997			
47			0.007				3.173			
48		Average:	**0.007**				3.092			
49							3.045			
50						Average:	**3.050**			

	A	B	C	D	E	F	G	H	I	J
1									TLW 2328	
2	**B-4**								Project #: 241460	
3	**SAAMI Jar-Off Test**									
4	Serial #:		G6446188		Model: 700 VLS-TH			Date:	7/30/2007	
5		Trigger Assembly Type:	40X XMP		Trigger Assembly #: 40X XMP B6			Stock Type:	Laminated thumbhole	
6		Previous Rds/Cycles:	0		Caliber: 243 Win					
7	***Start:***									
8		Engagement:	0.0191			Trigger Pull:	3.080			
9			0.0193				3.005			
10			0.0192				3.019			
11		Average:	**0.0192**				2.990			
12							3.087			
13		TMIS:	0.004				2.994			
14			0.004				3.034			
15			0.004				3.060			
16		Average:	**0.004**				3.104			
17							3.072			
18						Average:	**3.045**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	**X**					
26				Barrel Vertical, Muzzle Down:	**X**					
27				Barrel Horizontal, Left Side Up:	**X**					
28				Barrel Horizontal, Right Side Up:	**X**					
29				Barrel Horizontal, Bottom Side Up:	**X**					
30				Barrel Horizontal, Bottom Side Down:	**X**					
31				Tester's Initials:	SW/JW		7/31/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0192			Trigger Pull:	3.008			
41			0.0193				2.973			
42			0.0193				2.974			
43		Average:	**0.0193**				2.989			

	A	B	C	D	E	F	G	H	I	J
44							3.012			
45		TMIS:	0.005				2.968			
46			0.005				2.972			
47			0.005				2.997			
48		Average:	**0.005**				2.990			
49							3.061			
50						Average:	**2.994**			

	A	B	C	D	E	F	G	H	I	J
1									TLW 2328	
2	**B-5**								Project #: 241460	
3	**SAAMI Jar-Off Test**									
4	Serial #:		G6446238		Model: 700 VLS-TH			Date:	7/30/2007	
5		Trigger Assembly Type:	40X XMP		Trigger Assembly #: 40X XMP B7			Stock Type:	Laminated thumbhole	
6		Previous Rds/Cycles:	0		Caliber: 243 Win					
7	***Start:***									
8		Engagement:	0.0192			Trigger Pull:	3.082			
9			0.0192				3.083			
10			0.0192				3.115			
11		Average:	**0.0192**				3.020			
12							3.057			
13		TMIS:	0.004				3.028			
14			0.004				3.022			
15			0.004				3.124			
16		Average:	**0.004**				3.064			
17							3.012			
18						Average:	**3.061**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	**X**					
26				Barrel Vertical, Muzzle Down:	**X**					
27				Barrel Horizontal, Left Side Up:	**X**					
28				Barrel Horizontal, Right Side Up:	**X**					
29				Barrel Horizontal, Bottom Side Up:	**X**					
30				Barrel Horizontal, Bottom Side Down:	**X**					
31				Tester's Initials:	SW/JW		7/31/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0190			Trigger Pull:	2.984			
41			0.0190				2.953			
42			0.0190				2.988			
43		Average:	**0.0190**				2.992			

	A	B	C	D	E	F	G	H	I	J
44							2.976			
45		TMIS:	0.005				2.984			
46			0.005				2.933			
47			0.005				3.053			
48		Average:	**0.005**				3.028			
49							2.958			
50						Average:	**2.985**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-6**								Project #:	241460
3	**SAAMI Jar-Off Test**									
4	Serial #:	G6645883			Model:	700 SPS Varmint			Date:	7/30/2007
5	Trigger Assembly Type:	40X XMP			Trigger Assembly #:	40X XMP B10			Stock Type:	Injection molded
6	Previous Rds/Cycles:	0			Caliber:	243 Win				
7	***Start:***									
8		Engagement:	0.0190			Trigger Pull:	3.050			
9			0.0190				2.985			
10			0.0191				3.024			
11		Average:	**0.0190**				2.996			
12							3.013			
13		TMIS:	0.004				3.047			
14			0.004				3.079			
15			0.004				3.080			
16		Average:	**0.004**				3.076			
17							3.007			
18						Average:	**3.036**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	**X**					
26				Barrel Vertical, Muzzle Down:	**X**					
27				Barrel Horizontal, Left Side Up:	**X**					
28				Barrel Horizontal, Right Side Up:	**X**					
29				Barrel Horizontal, Bottom Side Up:	**X**					
30				Barrel Horizontal, Bottom Side Down:	**X**					
31				Tester's Initials:	SW/JW		7/31/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0193			Trigger Pull:	2.879			
41			0.0194				2.939			
42			0.0193				2.906			
43		Average:	**0.0193**				2.941			

	A	B	C	D	E	F	G	H	I	J
44							2.976			
45		TMIS:	0.004				2.961			
46			0.004				3.082			
47			0.004				3.034			
48		Average:	**0.004**				2.983			
49							2.991			
50						Average:	**2.969**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-7**								Project #:	241460
3	**SAAMI Jar-Off Test**									
4	Serial #:	G6645888			Model:	700 SPS Varmint		Date:	7/30/2007	
5	Trigger Assembly Type:	40X XMP			Trigger Assembly #:	40X XMP B11		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	0			Caliber:	243 Win				
7	***Start:***									
8		Engagement:	0.0190			Trigger Pull:	3.126			
9			0.0190				3.066			
10			0.0190				3.047			
11		Average:	**0.0190**				3.077			
12							3.001			
13		TMIS:	0.003				3.015			
14			0.004				3.019			
15			0.003				3.090			
16		Average:	**0.003**				3.053			
17							3.039			
18						Average:	**3.053**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	X					
26				Barrel Vertical, Muzzle Down:	X					
27				Barrel Horizontal, Left Side Up:	X					
28				Barrel Horizontal, Right Side Up:	X					
29				Barrel Horizontal, Bottom Side Up:	X					
30				Barrel Horizontal, Bottom Side Down:	X					
31				Tester's Initials:	SW/JW		7/31/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0209			Trigger Pull:	3.176			
41			0.0208				3.131			
42			0.0209				3.089			
43		Average:	**0.0209**				3.158			

	A	B	C	D	E	F	G	H	I	J
44							3.112			
45		TMIS:	0.006				3.112			
46			0.006				3.103			
47			0.006				3.172			
48		Average:	**0.006**				3.120			
49							3.117			
50						Average:	**3.129**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-8**								Project #:	241460
3	**SAAMI Jar-Off Test**									
4	Serial #:	G6645893			Model:	700 SPS Varmint		Date:	7/30/2007	
5	Trigger Assembly Type:	40X XMP			Trigger Assembly #:	40X XMP B12		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	0			Caliber:	243 Win				
7	***Start:***									
8		Engagement:	0.0192			Trigger Pull:	3.017			
9			0.0192				3.049			
10			0.0191				3.057			
11		Average:	**0.0192**				3.016			
12							3.020			
13		TMIS:	0.003				3.113			
14			0.003				3.023			
15			0.003				3.066			
16		Average:	**0.003**				2.978			
17							3.116			
18						Average:	**3.046**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	X					
26				Barrel Vertical, Muzzle Down:	X					
27				Barrel Horizontal, Left Side Up:	X					
28				Barrel Horizontal, Right Side Up:	X					
29				Barrel Horizontal, Bottom Side Up:	X					
30				Barrel Horizontal, Bottom Side Down:	X					
31				Tester's Initials:	SW/JW		7/31/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0190			Trigger Pull:	3.265			
41			0.0191				3.277			
42			0.0190				3.241			
43		Average:	**0.0190**				3.222			

	A	B	C	D	E	F	G	H	I	J
44							3.259			
45		TMIS:	0.005				3.264			
46			0.005				3.298			
47			0.005				3.197			
48		Average:	**0.005**				3.209			
49							3.250			
50						Average:	**3.248**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-9**								Project #:	241460
3	**SAAMI Jar-Off Test**									
4	Serial #:	G6645938			Model:	700 SPS Varmint		Date:	7/30/2007	
5	Trigger Assembly Type:	40X XMP			Trigger Assembly #:	40X XMP B13		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	0			Caliber:	243 Win				
7	***Start:***									
8		Engagement:	0.0190			Trigger Pull:	2.999			
9			0.0191				3.058			
10			0.0191				3.055			
11		Average:	**0.0191**				3.084			
12							3.047			
13		TMIS:	0.004				3.018			
14			0.004				3.088			
15			0.004				3.082			
16		Average:	**0.004**				3.055			
17							3.087			
18						Average:	**3.057**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	X					
26				Barrel Vertical, Muzzle Down:	X					
27				Barrel Horizontal, Left Side Up:	X					
28				Barrel Horizontal, Right Side Up:	X					
29				Barrel Horizontal, Bottom Side Up:	X					
30				Barrel Horizontal, Bottom Side Down:	X					
31				Tester's Initials:	SW/JS		8/1/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0190			Trigger Pull:	3.141			
41			0.0190				3.106			
42			0.0190				3.077			
43		Average:	**0.0190**				3.106			

	A	B	C	D	E	F	G	H	I	J
44							3.096			
45		TMIS:	0.004				3.102			
46			0.004				3.088			
47			0.004				3.083			
48		Average:	**0.004**				3.099			
49							3.126			
50						Average:	**3.102**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-10**								Project #:	241460
3	**SAAMI Jar-Off Test**									
4	Serial #:	G6645949			Model:	700 SPS Varmint		Date:	7/30/2007	
5	Trigger Assembly Type:	40X XMP			Trigger Assembly #:	40X XMP B15		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	0			Caliber:	243 Win				
7	***Start:***									
8		Engagement:	0.0190			Trigger Pull:	2.970			
9			0.0190				3.036			
10			0.0190				3.028			
11		Average:	**0.0190**				3.035			
12							3.020			
13		TMIS:	0.004				3.011			
14			0.004				3.012			
15			0.004				2.982			
16		Average:	**0.004**				3.006			
17							3.022			
18						Average:	**3.012**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	X					
26				Barrel Vertical, Muzzle Down:	X					
27				Barrel Horizontal, Left Side Up:	X					
28				Barrel Horizontal, Right Side Up:	X					
29				Barrel Horizontal, Bottom Side Up:	X					
30				Barrel Horizontal, Bottom Side Down:	X					
31				Tester's Initials:	SW/JS		8/1/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0193			Trigger Pull:	3.003			
41			0.0194				2.936			
42			0.0192				2.911			
43		Average:	**0.0193**				2.850			

	A	B	C	D	E	F	G	H	I	J
44							2.860			
45		TMIS:	0.005				2.877			
46			0.005				2.874			
47			0.005				2.859			
48		Average:	**0.005**				2.893			
49							3.061			
50						Average:	**2.912**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-11**								Project #:	241460
3	**SAAMI Jar-Off Test**									
4	Serial #:	S6599038			Model:	700 VS-SF II		Date:	7/30/2007	
5	Trigger Assembly Type:	40X XMP			Trigger Assembly #:	40X XMP B16		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	0			Caliber:	220 Swift				
7	***Start:***									
8		Engagement:	0.0191			Trigger Pull:	3.126			
9			0.0191				3.035			
10			0.0192				3.118			
11		Average:	**0.0191**				3.164			
12							3.105			
13		TMIS:	0.004				2.999			
14			0.004				3.140			
15			0.004				3.023			
16		Average:	**0.004**				3.028			
17							3.134			
18						Average:	**3.087**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	X					
26				Barrel Vertical, Muzzle Down:	X					
27				Barrel Horizontal, Left Side Up:	X					
28				Barrel Horizontal, Right Side Up:	X					
29				Barrel Horizontal, Bottom Side Up:	X					
30				Barrel Horizontal, Bottom Side Down:	X					
31				Tester's Initials:	SW/JS		8/1/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0193			Trigger Pull:	3.020			
41			0.0190				2.998			
42			0.0193				3.103			
43		Average:	**0.0192**				3.062			

	A	B	C	D	E	F	G	H	I	J
44							3.175			
45		TMIS:	0.003				3.199			
46			0.003				3.155			
47			0.003				3.112			
48		Average:	**0.003**				3.214			
49							3.204			
50						Average:	**3.124**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-12**								Project #:	241460
3	**SAAMI Jar-Off Test**									
4	Serial #:	S6599093			Model:	700 VS-SF II		Date:	7/30/2007	
5	Trigger Assembly Type:	40X XMP			Trigger Assembly #:	40X XMP B17		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	0			Caliber:	220 Swift				
7	***Start:***									
8		Engagement:	0.0193			Trigger Pull:	3.050			
9			0.0193				3.084			
10			0.0193				3.095			
11		Average:	**0.0193**				3.041			
12							3.009			
13		TMIS:	0.004				3.077			
14			0.004				3.058			
15			0.004				3.036			
16		Average:	**0.004**				3.115			
17							3.073			
18						Average:	**3.064**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	X					
26				Barrel Vertical, Muzzle Down:	X					
27				Barrel Horizontal, Left Side Up:	X					
28				Barrel Horizontal, Right Side Up:	X					
29				Barrel Horizontal, Bottom Side Up:	X					
30				Barrel Horizontal, Bottom Side Down:	X					
31				Tester's Initials:	SW/JS		8/1/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0199			Trigger Pull:	3.292			
41			0.0197				3.216			
42			0.0197				3.207			
43		Average:	**0.0198**				3.248			

	A	B	C	D	E	F	G	H	I	J
44							3.132			
45		TMIS:	0.003				3.184			
46			0.003				3.189			
47			0.003				3.210			
48		Average:	**0.003**				3.245			
49							3.204			
50						Average:	**3.213**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-13**								Project #:	241460
3	**SAAMI Jar-Off Test**									
4	Serial #:	S6599115			Model:	700 VS-SF II		Date:	7/30/2007	
5	Trigger Assembly Type:	40X XMP			Trigger Assembly #:	40X XMP B18		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	0			Caliber:	220 Swift				
7	***Start:***									
8		Engagement:	0.0191			Trigger Pull:	3.064			
9			0.0190				3.109			
10			0.0192				3.091			
11		Average:	**0.0191**				3.068			
12							3.089			
13		TMIS:	0.004				3.112			
14			0.004				3.036			
15			0.004				3.085			
16		Average:	**0.004**				3.052			
17							3.110			
18						Average:	**3.082**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	X					
26				Barrel Vertical, Muzzle Down:	X					
27				Barrel Horizontal, Left Side Up:	X					
28				Barrel Horizontal, Right Side Up:	X					
29				Barrel Horizontal, Bottom Side Up:	X					
30				Barrel Horizontal, Bottom Side Down:	X					
31				Tester's Initials:	SW/JS		8/1/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0194			Trigger Pull:	2.834			
41			0.0192				2.849			
42			0.0193				2.898			
43		Average:	**0.0193**				2.826			

	A	B	C	D	E	F	G	H	I	J
44							2.793			
45		TMIS:	0.005				2.755			
46			0.005				2.732			
47			0.005				2.812			
48		Average:	**0.005**				2.868			
49							2.855			
50						Average:	**2.822**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-14**								Project #:	241460
3	**SAAMI Jar-Off Test**									
4	Serial #:	S6596135			Model:	700 Sendero SF II		Date:	7/30/2007	
5	Trigger Assembly Type:	40X XMP			Trigger Assembly #:	40X XMP B19		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	0			Caliber:	300 Win Mag				
7	***Start:***									
8		Engagement:	0.0191			Trigger Pull:	3.034			
9			0.0190				3.006			
10			0.0191				3.060			
11		Average:	**0.0191**				3.087			
12							3.006			
13		TMIS:	0.003				3.072			
14			0.003				3.044			
15			0.003				3.076			
16		Average:	**0.003**				2.999			
17							3.001			
18						Average:	**3.039**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	X					
26				Barrel Vertical, Muzzle Down:	X					
27				Barrel Horizontal, Left Side Up:	X					
28				Barrel Horizontal, Right Side Up:	X					
29				Barrel Horizontal, Bottom Side Up:	X					
30				Barrel Horizontal, Bottom Side Down:	X					
31				Tester's Initials:	SW/JS		8/1/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0193			Trigger Pull:	3.188			
41			0.0191				3.076			
42			0.0191				3.088			
43		Average:	**0.0192**				3.098			

	A	B	C	D	E	F	G	H	I	J
44							3.027			
45		TMIS:	0.006				3.056			
46			0.006				3.008			
47			0.006				3.010			
48		Average:	**0.006**				3.059			
49							3.101			
50						Average:	**3.071**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-15**								Project #:	241460
3	**SAAMI Jar-Off Test**									
4	Serial #:	S6602971			Model:	700 Sendero SF II		Date:	7/30/2007	
5	Trigger Assembly Type:	40X XMP		Trigger Assembly #:		40X XMP B20		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	0		Caliber:		300 Win Mag				
7	***Start:***									
8		Engagement:	0.0192			Trigger Pull:	3.096			
9			0.0193				3.055			
10			0.0192				3.097			
11		Average:	**0.0192**				3.028			
12							3.100			
13		TMIS:	0.004				3.116			
14			0.004				3.055			
15			0.004				3.028			
16		Average:	**0.004**				3.051			
17							3.125			
18						Average:	**3.075**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	X					
26				Barrel Vertical, Muzzle Down:	X					
27				Barrel Horizontal, Left Side Up:	X					
28				Barrel Horizontal, Right Side Up:	X					
29				Barrel Horizontal, Bottom Side Up:	X					
30				Barrel Horizontal, Bottom Side Down:	X					
31				Tester's Initials:	SW/JS		8/1/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0194			Trigger Pull:	3.001			
41			0.0194				3.072			
42			0.0193				3.016			
43		Average:	**0.0194**				3.066			

	A	B	C	D	E	F	G	H	I	J
44							3.055			
45		TMIS:	0.004				3.037			
46			0.004				3.039			
47			0.004				3.074			
48		Average:	**0.004**				3.008			
49							3.009			
50						Average:	**3.038**			

	A	B	C	D	E	F	G	H	I	J
1									TLW 2328	
2	**B-1**								Project #: 241460	
3	**SAAMI Rotation Test**									
4	Serial #:		G6445889		Model: 700 VLS				Date:	8/1/2007
5		Trigger Assembly Type:	40X XMP		Trigger Assembly #: 40X XMP B1				Stock Type:	Laminated wood
6		Previous Rds/Cycles:	6		Caliber: 243 Win					
7	***Start:***									
8		Engagement:	0.0190			Trigger Pull:	3.137			
9			0.0190				3.066			
10			0.0190				3.021			
11		Average:	**0.0190**				2.996			
12							2.964			
13		TMIS:	0.005				3.066			
14			0.005				3.007			
15			0.005				3.144			
16		Average:	**0.005**				3.059			
17							3.101			
18						Average:	**3.056**			
19										
20	Comments:	Reset TMIS after SAAMI Jar Off								
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Drop So Left Side Is Up:	X					
26				Barrel Vertical, Drop So Right Side Is Up:	X					
27				Tester's Initials:	SW/JS		8/2/2007			
28										
29	Notes:									
30										
31										
32										
33										
34										
35	***End:***									
36		Engagement:	0.0190			Trigger Pull:	3.114			
37			0.0190				3.064			
38			0.0190				3.122			
39		Average:	**0.0190**				3.211			
40							3.416			
41		TMIS:	0.005				3.271			
42			0.005				3.240			
43			0.005				3.199			

	A	B	C	D	E	F	G	H	I	J
44		Average:	**0.005**				3.203			
45							3.149			
46						Average:	**3.199**			

	A	B	C	D	E	F	G	H	I	J
1									TLW 2328	
2	**B-2**								Project #: 241460	
3	**SAAMI Rotation Test**									
4	Serial #:		G6446030		Model: 700 VLS				Date:	8/1/2007
5		Trigger Assembly Type:	40X XMP		Trigger Assembly #: 40X XMP B2				Stock Type:	Laminated wood
6		Previous Rds/Cycles:	6		Caliber: 243 Win					
7	***Start:***									
8		Engagement:	0.0190			Trigger Pull:	3.050			
9			0.0191				2.999			
10			0.0192				2.950			
11		Average:	**0.0191**				3.081			
12							3.081			
13		TMIS:	0.004				3.006			
14			0.004				2.920			
15			0.004				2.965			
16		Average:	**0.004**				2.913			
17							3.074			
18						Average:	**3.004**			
19										
20	Comments:	Reset TMIS after SAAMI Jar Off								
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Drop So Left Side Is Up:	X					
26				Barrel Vertical, Drop So Right Side Is Up:	X					
27				Tester's Initials:	SW/JS		8/2/2007			
28										
29	Notes:									
30										
31										
32										
33										
34										
35	***End:***									
36		Engagement:	0.0198			Trigger Pull:	2.928			
37			0.0198				3.094			
38			0.0198				3.082			
39		Average:	**0.0198**				3.018			
40							2.972			
41		TMIS:	0.004				3.218			
42			0.005				2.985			
43			0.004				3.118			

	A	B	C	D	E	F	G	H	I	J
44		Average:	**0.004**				2.939			
45							2.842			
46						Average:	**3.020**			

	A	B	C	D	E	F	G	H	I	J
1									TLW 2328	
2	**B-3**								Project #: 241460	
3	**SAAMI Rotation Test**									
4	Serial #:		G6446152		Model: 700 VLS			Date:	8/1/2007	
5		Trigger Assembly Type:	40X XMP		Trigger Assembly #: 40X XMP B5			Stock Type:	Laminated wood	
6		Previous Rds/Cycles:	6		Caliber: 243 Win					
7	***Start:***									
8		Engagement:	0.0193			Trigger Pull:	3.045			
9			0.0191				3.064			
10			0.0191				2.902			
11		Average:	**0.0192**				3.090			
12							3.003			
13		TMIS:	0.004				3.085			
14			0.004				2.997			
15			0.004				3.173			
16		Average:	**0.004**				3.092			
17							3.045			
18						Average:	**3.050**			
19										
20	Comments:	Reset TMIS after SAAMI Jar Off								
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Drop So Left Side Is Up:	X					
26				Barrel Vertical, Drop So Right Side Is Up:	X					
27				Tester's Initials:	SW/JS		8/2/2007			
28										
29	Notes:									
30										
31										
32										
33										
34										
35	***End:***									
36		Engagement:	0.0191			Trigger Pull:	3.083			
37			0.0192				3.042			
38			0.0192				3.006			
39		Average:	**0.0192**				3.010			
40							2.972			
41		TMIS:	0.004				3.008			
42			0.004				3.057			
43			0.005				3.126			

	A	B	C	D	E	F	G	H	I	J
44		Average:	**0.004**				3.120			
45							3.118			
46						Average:	**3.054**			

	A	B	C	D	E	F	G	H	I	J
1									TLW 2328	
2	**B-4**								Project #: 241460	
3	**SAAMI Rotation Test**									
4	Serial #:		G6446188		Model: 700 VLS-TH			Date:	8/1/2007	
5		Trigger Assembly Type:	40X XMP		Trigger Assembly #: 40X XMP B6			Stock Type:	Laminated thumbhole	
6		Previous Rds/Cycles:	6		Caliber: 243 Win					
7	***Start:***									
8		Engagement:	0.0192			Trigger Pull:	2.933			
9			0.0193				3.068			
10			0.0193				2.995			
11		Average:	**0.0193**				3.101			
12							3.035			
13		TMIS:	0.005				3.027			
14			0.005				2.967			
15			0.005				2.945			
16		Average:	**0.005**				2.982			
17							3.066			
18						Average:	**3.012**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Drop So Left Side Is Up:	**X**					
26				Barrel Vertical, Drop So Right Side Is Up:	**X**					
27				Tester's Initials:	SW/JS		8/2/2007			
28										
29	Notes:									
30										
31										
32										
33										
34										
35	***End:***									
36		Engagement:	0.0191			Trigger Pull:	3.112			
37			0.0191				2.979			
38			0.0192				3.033			
39		Average:	**0.0191**				3.013			
40							2.939			
41		TMIS:	0.005				2.969			
42			0.005				2.961			
43			0.005				2.983			

	A	B	C	D	E	F	G	H	I	J
44		Average:	**0.005**				2.958			
45							2.921			
46						Average:	**2.987**			

	A	B	C	D	E	F	G	H	I	J
1									TLW 2328	
2	**B-5**								Project #: 241460	
3	**SAAMI Rotation Test**									
4	Serial #:		G6446238		Model: 700 VLS-TH			Date:	8/1/2007	
5		Trigger Assembly Type:	40X XMP		Trigger Assembly #: 40X XMP B7			Stock Type:	Laminated thumbhole	
6		Previous Rds/Cycles:	6		Caliber: 243 Win					
7	***Start:***									
8		Engagement:	0.0190			Trigger Pull:	2.974			
9			0.0190				2.975			
10			0.0190				3.018			
11		Average:	**0.0190**				3.053			
12							3.030			
13		TMIS:	0.005				3.036			
14			0.005				3.015			
15			0.005				3.104			
16		Average:	**0.005**				3.039			
17							3.080			
18						Average:	**3.032**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Drop So Left Side Is Up:	X					
26				Barrel Vertical, Drop So Right Side Is Up:	X					
27				Tester's Initials:	SW/JS		8/2/2007			
28										
29	Notes:									
30										
31										
32										
33										
34										
35	***End:***									
36		Engagement:	0.0191			Trigger Pull:	2.991			
37			0.0192				3.090			
38			0.0191				3.012			
39		Average:	**0.0191**				3.083			
40							3.026			
41		TMIS:	0.005				3.015			
42			0.005				3.080			
43			0.005				2.995			

	A	B	C	D	E	F	G	H	I	J
44		Average:	**0.005**				3.083			
45							2.979			
46						Average:	**3.035**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-6**								Project #:	241460
3	**SAAMI Rotation Test**									
4	Serial #:	G6645883			Model:	700 SPS Varmint		Date:	8/1/2007	
5	Trigger Assembly Type:	40X XMP		Trigger Assembly #:	40X XMP B10			Stock Type:	Injection molded	
6	Previous Rds/Cycles:	6		Caliber:	243 Win					
7	***Start:***									
8		Engagement:	0.0193			Trigger Pull:	2.931			
9			0.0194				3.036			
10			0.0193				3.053			
11		Average:	**0.0193**				2.941			
12							2.984			
13		TMIS:	0.004				2.969			
14			0.004				2.999			
15			0.004				3.063			
16		Average:	**0.004**				3.072			
17							3.073			
18						Average:	**3.012**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Drop So Left Side Is Up:	X					
26				Barrel Vertical, Drop So Right Side Is Up:	X					
27				Tester's Initials:		SW/JS	8/2/2007			
28										
29	Notes:									
30										
31										
32										
33										
34										
35	***End:***									
36		Engagement:	0.0193			Trigger Pull:	3.037			
37			0.0193				3.117			
38			0.0193				3.061			
39		Average:	**0.0193**				3.074			
40							3.114			
41		TMIS:	0.004				3.095			
42			0.004				3.043			
43			0.004				3.122			

	A	B	C	D	E	F	G	H	I	J
44		Average:	**0.004**				3.020			
45							3.120			
46						Average:	**3.080**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-7**								Project #:	241460
3	**SAAMI Rotation Test**									
4	Serial #:	G6645888			Model:	700 SPS Varmint			Date:	8/1/2007
5	Trigger Assembly Type:	40X XMP			Trigger Assembly #:	40X XMP B11			Stock Type:	Injection molded
6	Previous Rds/Cycles:	6			Caliber:	243 Win				
7	***Start:***									
8		Engagement:	0.0190			Trigger Pull:	3.018			
9			0.0190				3.015			
10			0.0191				3.026			
11		Average:	**0.0190**				3.017			
12							3.058			
13		TMIS:	0.006				3.065			
14			0.006				3.009			
15			0.006				2.966			
16		Average:	**0.006**				2.988			
17							3.022			
18						Average:	**3.018**			
19										
20	Comments:	Reset engagement after SAAMI Jar Off								
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25		Barrel Vertical, Drop So Left Side Is Up:			X					
26		Barrel Vertical, Drop So Right Side Is Up:			X					
27				Tester's Initials:	SW/JS		8/2/2007			
28										
29	Notes:									
30										
31										
32										
33										
34										
35	***End:***									
36		Engagement:	0.0192			Trigger Pull:	3.085			
37			0.0191				3.107			
38			0.0193				3.019			
39		Average:	**0.0192**				3.030			
40							3.039			
41		TMIS:	0.004				3.044			
42			0.004				3.110			
43			0.004				3.055			

	A	B	C	D	E	F	G	H	I	J
44		Average:	**0.004**				3.087			
45							3.153			
46						Average:	**3.073**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-8**								Project #:	241460
3	**SAAMI Rotation Test**									
4	Serial #:	G6645893			Model:	700 SPS Varmint		Date:	8/1/2007	
5	Trigger Assembly Type:	40X XMP		Trigger Assembly #:	40X XMP B12			Stock Type:	Injection molded	
6	Previous Rds/Cycles:	6			Caliber:	243 Win				
7	***Start:***									
8		Engagement:	0.0190			Trigger Pull:	2.918			
9			0.0191				3.085			
10			0.0190				3.034			
11		Average:	**0.0190**				2.979			
12							3.064			
13		TMIS:	0.005				3.142			
14			0.005				3.061			
15			0.005				3.034			
16		Average:	**0.005**				3.134			
17							2.980			
18						Average:	**3.043**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Drop So Left Side Is Up:	X					
26				Barrel Vertical, Drop So Right Side Is Up:	X					
27				Tester's Initials:		SW/JS	8/2/2007			
28										
29	Notes:									
30										
31										
32										
33										
34										
35	***End:***									
36		Engagement:	0.0193			Trigger Pull:	3.374			
37			0.0194				3.364			
38			0.0192				3.336			
39		Average:	**0.0193**				3.399			
40							3.323			
41		TMIS:	0.005				3.371			
42			0.005				3.302			
43			0.005				3.420			

	A	B	C	D	E	F	G	H	I	J
44		Average:	**0.005**				3.264			
45							3.313			
46						Average:	**3.347**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-9**								Project #:	241460
3	**SAAMI Rotation Test**									
4	Serial #:		G6645938		Model:	700 SPS Varmint		Date:	8/1/2007	
5	Trigger Assembly Type:		40X XMP		Trigger Assembly #:	40X XMP B13		Stock Type:	Injection molded	
6	Previous Rds/Cycles:		6		Caliber:	243 Win				
7	***Start:***									
8		Engagement:	0.0190			Trigger Pull:	3.009			
9			0.0190				3.029			
10			0.0190				3.101			
11		Average:	**0.0190**				3.014			
12							3.056			
13		TMIS:	0.004				2.970			
14			0.004				2.984			
15			0.004				3.059			
16		Average:	**0.004**				2.973			
17							3.064			
18						Average:	**3.026**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Drop So Left Side Is Up:	X					
26				Barrel Vertical, Drop So Right Side Is Up:	X					
27				Tester's Initials:		SW/JS	8/2/2007			
28										
29	Notes:									
30										
31										
32										
33										
34										
35	***End:***									
36		Engagement:	0.0190			Trigger Pull:	3.074			
37			0.0190				2.966			
38			0.0192				3.047			
39		Average:	**0.0191**				3.074			
40							2.974			
41		TMIS:	0.005				3.116			
42			0.005				2.974			
43			0.005				2.961			

	A	B	C	D	E	F	G	H	I	J
44		Average:	**0.005**				2.992			
45							2.977			
46						Average:	**3.016**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-10**								Project #:	241460
3	**SAAMI Rotation Test**									
4	Serial #:		G6645949		Model:	700 SPS Varmint		Date:	8/1/2007	
5	Trigger Assembly Type:		40X XMP		Trigger Assembly #:	40X XMP B15		Stock Type:	Injection molded	
6	Previous Rds/Cycles:		6		Caliber:	243 Win				
7	***Start:***									
8		Engagement:	0.0193			Trigger Pull:	2.968			
9			0.0194				3.034			
10			0.0192				2.996			
11		Average:	**0.0193**				3.006			
12							3.034			
13		TMIS:	0.005				3.055			
14			0.005				3.115			
15			0.005				3.023			
16		Average:	**0.005**				3.025			
17							3.044			
18						Average:	**3.030**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Drop So Left Side Is Up:	X					
26				Barrel Vertical, Drop So Right Side Is Up:	X					
27				Tester's Initials:		SW/JS	8/2/2007			
28										
29	Notes:									
30										
31										
32										
33										
34										
35	***End:***									
36		Engagement:	0.0193			Trigger Pull:	3.020			
37			0.0192				2.993			
38			0.0190				2.930			
39		Average:	**0.0192**				2.899			
40							3.042			
41		TMIS:	0.004				2.961			
42			0.004				2.880			
43			0.004				2.950			

	A	B	C	D	E	F	G	H	I	J
44		Average:	**0.004**				3.070			
45							2.986			
46						Average:	**2.973**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-11**								Project #:	241460
3	**SAAMI Rotation Test**									
4	Serial #:		S6599038		Model:	700 VS-SF II		Date:	8/1/2007	
5	Trigger Assembly Type:		40X XMP		Trigger Assembly #:	40X XMP B16		Stock Type:	Injection molded	
6	Previous Rds/Cycles:		6		Caliber:	220 Swift				
7	***Start:***									
8		Engagement:	0.0193			Trigger Pull:	3.129			
9			0.0190				3.062			
10			0.0193				3.013			
11		Average:	**0.0192**				3.158			
12							3.099			
13		TMIS:	0.003				3.104			
14			0.003				3.047			
15			0.003				3.147			
16		Average:	**0.003**				3.079			
17							3.103			
18						Average:	**3.094**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Drop So Left Side Is Up:	X					
26				Barrel Vertical, Drop So Right Side Is Up:	X					
27				Tester's Initials:	SW/JS		8/2/2007			
28										
29	Notes:									
30										
31										
32										
33										
34										
35	***End:***									
36		Engagement:	0.0195			Trigger Pull:	3.056			
37			0.0194				2.989			
38			0.0194				3.049			
39		Average:	**0.0194**				3.037			
40							3.255			
41		TMIS:	0.003				3.069			
42			0.003				2.917			
43			0.003				3.104			

	A	B	C	D	E	F	G	H	I	J
44		Average:	**0.003**				3.163			
45							3.068			
46						Average:	**3.071**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-12**								Project #:	241460
3	**SAAMI Rotation Test**									
4	Serial #:	S6599093			Model:	700 VS-SF II		Date:	8/1/2007	
5	Trigger Assembly Type:	40X XMP		Trigger Assembly #:		40X XMP B17		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	6		Caliber:		220 Swift				
7	***Start:***									
8		Engagement:	0.0192			Trigger Pull:	3.042			
9			0.0190				3.038			
10			0.0193				3.018			
11		Average:	**0.0192**				3.039			
12							3.072			
13		TMIS:	0.003				3.066			
14			0.003				3.073			
15			0.003				3.061			
16		Average:	**0.003**				3.096			
17							3.116			
18						Average:	**3.062**			
19										
20	Comments:	Reset engagement after SAAMI Jar Off								
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25		Barrel Vertical, Drop So Left Side Is Up:			X					
26		Barrel Vertical, Drop So Right Side Is Up:			X					
27				Tester's Initials:		SW/JS				
28										
29	Notes:									
30										
31										
32										
33										
34										
35	***End:***									
36		Engagement:	0.0191			Trigger Pull:	3.106			
37			0.0192				3.080			
38			0.0192				3.001			
39		Average:	**0.0192**				3.023			
40							3.043			
41		TMIS:	0.003				3.031			
42			0.003				3.050			
43			0.003				3.046			

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	A	B	C	D	E	F	G	H	I	J
44		Average:	**0.003**				3.080			
45							3.034			
46						Average:	**3.049**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-13**								Project #:	241460
3	**SAAMI Rotation Test**									
4	Serial #:		S6599115		Model:	700 VS-SF II		Date:	8/1/2007	
5	Trigger Assembly Type:		40X XMP		Trigger Assembly #:	40X XMP B18		Stock Type:	Injection molded	
6	Previous Rds/Cycles:		6		Caliber:	220 Swift				
7	***Start:***									
8		Engagement:	0.0194			Trigger Pull:	3.077			
9			0.0192				2.997			
10			0.0193				3.030			
11		Average:	**0.0193**				2.979			
12							3.043			
13		TMIS:	0.005				3.031			
14			0.005				3.047			
15			0.005				3.052			
16		Average:	**0.005**				3.015			
17							3.019			
18						Average:	**3.029**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Drop So Left Side Is Up:	X					
26				Barrel Vertical, Drop So Right Side Is Up:	X					
27				Tester's Initials:		SW/JS	8/2/2007			
28										
29	Notes:									
30										
31										
32										
33										
34										
35	***End:***									
36		Engagement:	0.0193			Trigger Pull:	3.082			
37			0.0190				2.985			
38			0.0192				2.958			
39		Average:	**0.0192**				3.112			
40							2.994			
41		TMIS:	0.005				2.998			
42			0.005				3.036			
43			0.005				2.989			

	A	B	C	D	E	F	G	H	I	J
44		Average:	**0.005**				3.047			
45							2.995			
46						Average:	**3.020**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-14**								Project #:	241460
3	**SAAMI Rotation Test**									
4	Serial #:		S6596135		Model:	700 Sendero SF II		Date:	8/1/2007	
5	Trigger Assembly Type:		40X XMP		Trigger Assembly #:	40X XMP B19		Stock Type:	Injection molded	
6	Previous Rds/Cycles:		6		Caliber:	300 Win Mag				
7	***Start:***									
8		Engagement:	0.0193			Trigger Pull:	3.188			
9			0.0191				3.076			
10			0.0191				3.088			
11		Average:	**0.0192**				3.098			
12							3.027			
13		TMIS:	0.006				3.056			
14			0.006				3.008			
15			0.006				3.010			
16		Average:	**0.006**				3.059			
17							3.101			
18						Average:	**3.071**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Drop So Left Side Is Up:	X					
26				Barrel Vertical, Drop So Right Side Is Up:	X					
27				Tester's Initials:		SW/JS	8/2/2007			
28										
29	Notes:									
30										
31										
32										
33										
34										
35	***End:***									
36		Engagement:	0.0191			Trigger Pull:	3.061			
37			0.0192				3.099			
38			0.0190				3.044			
39		Average:	**0.0191**				2.990			
40							3.074			
41		TMIS:	0.006				3.034			
42			0.006				3.109			
43			0.006				3.058			

	A	B	C	D	E	F	G	H	I	J
44		Average:	**0.006**				3.135			
45							2.993			
46						Average:	**3.060**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-15**								Project #:	241460
3	**SAAMI Rotation Test**									
4	Serial #:		S6602971		Model:	700 Sendero SF II		Date:	8/1/2007	
5	Trigger Assembly Type:		40X XMP		Trigger Assembly #:	40X XMP B20		Stock Type:	Injection molded	
6	Previous Rds/Cycles:		6		Caliber:	300 Win Mag				
7	***Start:***									
8		Engagement:	0.0194			Trigger Pull:	3.001			
9			0.0194				3.072			
10			0.0193				3.016			
11		Average:	**0.0194**				3.066			
12							3.055			
13		TMIS:	0.004				3.037			
14			0.004				3.039			
15			0.004				3.074			
16		Average:	**0.004**				3.008			
17							3.009			
18						Average:	**3.038**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Drop So Left Side Is Up:	X					
26				Barrel Vertical, Drop So Right Side Is Up:	X					
27				Tester's Initials:	SW/JS		8/2/2007			
28										
29	Notes:									
30										
31										
32										
33										
34										
35	***End:***									
36		Engagement:	0.0197			Trigger Pull:	3.082			
37			0.0198				2.985			
38			0.0199				2.958			
39		Average:	**0.0198**				3.112			
40							2.994			
41		TMIS:	0.004				2.998			
42			0.004				3.036			
43			0.004				2.989			

	A	B	C	D	E	F	G	H	I	J
44		Average:	**0.004**				3.047			
45							2.995			
46						Average:	**3.020**			

	A	B	C	D	E	F	G	H	I	J
1									TLW 2328	
2	**B-1**								Project #: 241460	
3	**SAAMI Drop Test**									
4	Serial #:		G6445889		Model: 700 VLS			Date:	8/2/2007	
5		Trigger Assembly Type:	40X XMP		Trigger Assembly #: 40X XMP B1			Stock Type:	Laminated wood	
6		Previous Rds/Cycles:	8		Caliber: 243 Win					
7	***Start:***									
8		Engagement:	0.0190			Trigger Pull:	3.031			
9			0.0190				2.915			
10			0.0190				3.057			
11		Average:	**0.0190**				3.104			
12							3.113			
13		TMIS:	0.005				3.070			
14			0.005				3.159			
15			0.005				3.099			
16		Average:	**0.005**				3.118			
17							3.109			
18						Average:	**3.078**			
19										
20	Comments:	Reset trigger pull after rotation.								
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	**X**					
26				Barrel Vertical, Muzzle Down:	**X**					
27				Barrel Horizontal, Left Side Up:	**X**					
28				Barrel Horizontal, Right Side Up:	**X**					
29				Barrel Horizontal, Bottom Side Up:	**X**					
30				Barrel Horizontal, Bottom Side Down:	**X**		cracked stock			
31				Tester's Initials:	SW/JS		8/2/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0193			Trigger Pull:	3.094			
41			0.0190				3.241			
42			0.0191				3.225			
43		Average:	**0.0191**				3.229			

	A	B	C	D	E	F	G	H	I	J
44							3.122			
45		TMIS:	0.005				3.131			
46			0.006				3.209			
47			0.005				3.225			
48		Average:	**0.005**				3.220			
49							3.200			
50						Average:	**3.190**			

	A	B	C	D	E	F	G	H	I	J
1									TLW 2328	
2	**B-2**								Project #: 241460	
3	**SAAMI Drop Test**									
4	Serial #:		G6446030		Model: 700 VLS			Date:	8/2/2007	
5		Trigger Assembly Type:	40X XMP		Trigger Assembly #: 40X XMP B2			Stock Type:	Laminated wood	
6		Previous Rds/Cycles:	8		Caliber: 243 Win					
7	***Start:***									
8		Engagement:	0.0192			Trigger Pull:	2.974			
9			0.0193				3.142			
10			0.0192				3.085			
11		Average:	**0.0192**				3.008			
12							3.156			
13		TMIS:	0.004				3.169			
14			0.005				3.069			
15			0.004				2.993			
16		Average:	**0.004**				3.147			
17							2.857			
18						Average:	**3.060**			
19										
20	Comments:	Reset engagement and checked trigger pull after rotation test.								
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	**X**					
26				Barrel Vertical, Muzzle Down:	**X**					
27				Barrel Horizontal, Left Side Up:	**X**					
28				Barrel Horizontal, Right Side Up:	**X**					
29				Barrel Horizontal, Bottom Side Up:	**X**					
30				Barrel Horizontal, Bottom Side Down:	**X**		cracked stock			
31				Tester's Initials:	SW/JS		8/2/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0194			Trigger Pull:	3.055			
41			0.0192				3.104			
42			0.0191				2.966			
43		Average:	**0.0192**				2.979			

	A	B	C	D	E	F	G	H	I	J
44							3.101			
45		TMIS:	0.004				3.112			
46			0.004				3.044			
47			0.004				2.988			
48		Average:	**0.004**				3.083			
49							3.008			
50						Average:	**3.044**			

	A	B	C	D	E	F	G	H	I	J
1									TLW 2328	
2	**B-3**								Project #: 241460	
3	**SAAMI Drop Test**									
4	Serial #:		G6446152		Model: 700 VLS			Date:	8/2/2007	
5		Trigger Assembly Type:	40X XMP		Trigger Assembly #: 40X XMP B5			Stock Type:	Laminated wood	
6		Previous Rds/Cycles:	8		Caliber: 243 Win					
7	***Start:***									
8		Engagement:	0.0191			Trigger Pull:	3.083			
9			0.0192				3.042			
10			0.0192				3.006			
11		Average:	**0.0192**				3.010			
12							2.972			
13		TMIS:	0.004				3.008			
14			0.004				3.057			
15			0.005				3.126			
16		Average:	**0.004**				3.120			
17							3.118			
18						Average:	**3.054**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	**X**					
26				Barrel Vertical, Muzzle Down:	**X**					
27				Barrel Horizontal, Left Side Up:	**X**					
28				Barrel Horizontal, Right Side Up:	**X**					
29				Barrel Horizontal, Bottom Side Up:	**X**					
30				Barrel Horizontal, Bottom Side Down:	**X**		cracked stock			
31				Tester's Initials:	SW/JS		8/2/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0194			Trigger Pull:	3.103			
41			0.0194				3.091			
42			0.0193				3.069			
43		Average:	**0.0194**				3.031			

	A	B	C	D	E	F	G	H	I	J
44							3.034			
45		TMIS:	0.004				3.048			
46			0.004				3.069			
47			0.004				3.082			
48		Average:	**0.004**				3.046			
49							3.072			
50						Average:	**3.065**			

	A	B	C	D	E	F	G	H	I	J
1									TLW 2328	
2	**B-4**								Project #: 241460	
3	**SAAMI Drop Test**									
4	Serial #:		G6446188		Model: 700 VLS-TH			Date:	8/2/2007	
5		Trigger Assembly Type:	40X XMP		Trigger Assembly #: 40X XMP B6			Stock Type:	Laminated thumbhole	
6		Previous Rds/Cycles:	8		Caliber: 243 Win					
7	***Start:***									
8		Engagement:	0.0191			Trigger Pull:	3.129			
9			0.0191				3.107			
10			0.0192				3.059			
11		Average:	**0.0191**				3.013			
12							3.087			
13		TMIS:	0.005				3.088			
14			0.005				3.061			
15			0.005				3.058			
16		Average:	**0.005**				3.117			
17							3.191			
18						Average:	**3.091**			
19										
20	Comments:	Reset trigger pull after rotation test.								
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	**X**					
26				Barrel Vertical, Muzzle Down:	**X**					
27				Barrel Horizontal, Left Side Up:	**X**					
28				Barrel Horizontal, Right Side Up:	**X**		broke stock - replaced			
29				Barrel Horizontal, Bottom Side Up:	**X**					
30				Barrel Horizontal, Bottom Side Down:	**X**		broke stock			
31				Tester's Initials:	SW/JS		8/2/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0193			Trigger Pull:	3.220			
41			0.0192				3.199			
42			0.0193				3.189			
43		Average:	**0.0193**				3.084			

	A	B	C	D	E	F	G	H	I	J
44							3.082			
45		TMIS:	0.006				3.107			
46			0.006				3.101			
47			0.006				3.120			
48		Average:	**0.006**				3.180			
49							3.064			
50						Average:	**3.135**			

	A	B	C	D	E	F	G	H	I	J
1									TLW 2328	
2	**B-5**								Project #: 241460	
3	**SAAMI Drop Test**									
4	Serial #:		G6446238		Model: 700 VLS-TH			Date:	8/2/2007	
5		Trigger Assembly Type:	40X XMP		Trigger Assembly #: 40X XMP B7			Stock Type:	Laminated thumbhole	
6		Previous Rds/Cycles:	8		Caliber: 243 Win					
7	***Start:***									
8		Engagement:	0.0191			Trigger Pull:	2.991			
9			0.0192				3.090			
10			0.0191				3.012			
11		Average:	**0.0191**				3.083			
12							3.026			
13		TMIS:	0.005				3.015			
14			0.005				3.080			
15			0.005				2.995			
16		Average:	**0.005**				3.083			
17							2.979			
18						Average:	**3.035**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	**X**					
26				Barrel Vertical, Muzzle Down:	**X**					
27				Barrel Horizontal, Left Side Up:	**X**					
28				Barrel Horizontal, Right Side Up:	**X**					
29				Barrel Horizontal, Bottom Side Up:	**X**					
30				Barrel Horizontal, Bottom Side Down:	**X**					
31				Tester's Initials:	SW/JS		8/2/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0194			Trigger Pull:	3.084			
41			0.0191				3.063			
42			0.0192				3.099			
43		Average:	**0.0192**				2.998			

	A	B	C	D	E	F	G	H	I	J
44							3.023			
45		TMIS:	0.006				3.026			
46			0.006				3.121			
47			0.006				3.085			
48		Average:	**0.006**				3.009			
49							3.071			
50						Average:	**3.058**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-6**								Project #:	241460
3	**SAAMI Drop Test**									
4	Serial #:	G6645883			Model:	700 SPS Varmint		Date:	8/2/2007	
5	Trigger Assembly Type:	40X XMP			Trigger Assembly #:	40X XMP B10		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	8			Caliber:	243 Win				
7	***Start:***									
8		Engagement:	0.0193			Trigger Pull:	3.037			
9			0.0193				3.117			
10			0.0193				3.061			
11		Average:	**0.0193**				3.074			
12							3.114			
13		TMIS:	0.004				3.095			
14			0.004				3.043			
15			0.004				3.122			
16		Average:	**0.004**				3.020			
17							3.120			
18						Average:	**3.080**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	X					
26				Barrel Vertical, Muzzle Down:	X					
27				Barrel Horizontal, Left Side Up:	X					
28				Barrel Horizontal, Right Side Up:	X					
29				Barrel Horizontal, Bottom Side Up:	X					
30				Barrel Horizontal, Bottom Side Down:	X					
31				Tester's Initials:	SW/JS		8/2/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0193			Trigger Pull:	3.105			
41			0.0194				3.237			
42			0.0195				3.272			
43		Average:	**0.0194**				3.162			

	A	B	C	D	E	F	G	H	I	J
44							3.169			
45		TMIS:	0.005				3.238			
46			0.005				3.171			
47			0.005				3.164			
48		Average:	**0.005**				3.161			
49							3.146			
50						Average:	**3.183**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-7**								Project #:	241460
3	**SAAMI Drop Test**									
4	Serial #:	G6645888			Model:	700 SPS Varmint		Date:	8/2/2007	
5	Trigger Assembly Type:	40X XMP			Trigger Assembly #:	40X XMP B11		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	8			Caliber:	243 Win				
7	***Start:***									
8		Engagement:	0.0192			Trigger Pull:	3.085			
9			0.0191				3.107			
10			0.0193				3.019			
11		Average:	**0.0192**				3.030			
12							3.039			
13		TMIS:	0.004				3.044			
14			0.004				3.110			
15			0.004				3.055			
16		Average:	**0.004**				3.087			
17							3.153			
18						Average:	**3.073**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	X					
26				Barrel Vertical, Muzzle Down:	X					
27				Barrel Horizontal, Left Side Up:	X					
28				Barrel Horizontal, Right Side Up:	X					
29				Barrel Horizontal, Bottom Side Up:	X					
30				Barrel Horizontal, Bottom Side Down:	X					
31				Tester's Initials:	SW/JS		8/2/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0193			Trigger Pull:	3.198			
41			0.0190				3.291			
42			0.0191				3.193			
43		Average:	**0.0191**				3.176			

	A	B	C	D	E	F	G	H	I	J
44							3.202			
45		TMIS:	0.004				3.200			
46			0.004				3.228			
47			0.004				3.181			
48		Average:	**0.004**				3.122			
49							3.102			
50						Average:	**3.189**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-8**								Project #:	241460
3	**SAAMI Drop Test**									
4	Serial #:	G6645893			Model:	700 SPS Varmint		Date:	8/2/2007	
5	Trigger Assembly Type:	40X XMP			Trigger Assembly #:	40X XMP B12		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	8			Caliber:	243 Win				
7	***Start:***									
8		Engagement:	0.0193			Trigger Pull:	3.059			
9			0.0194				2.970			
10			0.0192				3.012			
11		Average:	**0.0193**				3.077			
12							3.080			
13		TMIS:	0.005				3.092			
14			0.005				3.118			
15			0.005				3.049			
16		Average:	**0.005**				3.040			
17							3.045			
18						Average:	**3.054**			
19										
20	Comments:	Reset trigger pull after rotation.								
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	X					
26				Barrel Vertical, Muzzle Down:	X					
27				Barrel Horizontal, Left Side Up:	X					
28				Barrel Horizontal, Right Side Up:	X					
29				Barrel Horizontal, Bottom Side Up:	X					
30				Barrel Horizontal, Bottom Side Down:	X					
31				Tester's Initials:	SW/JS		8/2/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0193			Trigger Pull:	3.382			
41			0.0194				3.391			
42			0.0193				3.326			
43		Average:	**0.0193**				3.311			

	A	B	C	D	E	F	G	H	I	J
44							3.268			
45		TMIS:	0.005				3.365			
46			0.005				3.566			
47			0.005				3.482			
48		Average:	**0.005**				3.370			
49							3.427			
50						Average:	**3.389**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-9**								Project #:	241460
3	**SAAMI Drop Test**									
4	Serial #:	G6645938			Model:	700 SPS Varmint		Date:	8/2/2007	
5	Trigger Assembly Type:	40X XMP			Trigger Assembly #:	40X XMP B13		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	8			Caliber:	243 Win				
7	***Start:***									
8		Engagement:	0.0190			Trigger Pull:	3.074			
9			0.0190				2.966			
10			0.0192				3.047			
11		Average:	**0.0191**				3.074			
12							2.974			
13		TMIS:	0.005				3.116			
14			0.005				2.974			
15			0.005				2.961			
16		Average:	**0.005**				2.992			
17							2.977			
18						Average:	**3.016**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	X					
26				Barrel Vertical, Muzzle Down:	X					
27				Barrel Horizontal, Left Side Up:	X					
28				Barrel Horizontal, Right Side Up:	X					
29				Barrel Horizontal, Bottom Side Up:	X					
30				Barrel Horizontal, Bottom Side Down:	X					
31				Tester's Initials:	SW/JS		8/2/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0192			Trigger Pull:	3.111			
41			0.0193				3.000			
42			0.0191				2.988			
43		Average:	**0.0192**				3.013			

	A	B	C	D	E	F	G	H	I	J
44							3.041			
45		TMIS:	0.005				3.099			
46			0.005				2.953			
47			0.005				2.952			
48		Average:	**0.005**				2.996			
49							3.036			
50						Average:	**3.019**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-10**								Project #:	241460
3	**SAAMI Drop Test**									
4	Serial #:	G6645949			Model:	700 SPS Varmint		Date:	8/2/2007	
5	Trigger Assembly Type:	40X XMP		Trigger Assembly #:		40X XMP B15		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	8		Caliber:		243 Win				
7	***Start:***									
8		Engagement:	0.0193			Trigger Pull:	3.124			
9			0.0192				3.111			
10			0.0190				3.047			
11		Average:	**0.0192**				3.046			
12							3.039			
13		TMIS:	0.004				3.053			
14			0.004				3.064			
15			0.004				3.122			
16		Average:	**0.004**				3.006			
17							3.102			
18						Average:	**3.071**			
19										
20	Comments:	Reset trigger pull after rotation.								
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	X					
26				Barrel Vertical, Muzzle Down:	X					
27				Barrel Horizontal, Left Side Up:	X					
28				Barrel Horizontal, Right Side Up:	X					
29				Barrel Horizontal, Bottom Side Up:	X					
30				Barrel Horizontal, Bottom Side Down:	X					
31				Tester's Initials:	SW/JS		8/2/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0215			Trigger Pull:	3.400			
41			0.0215				3.342			
42			0.0217				3.355			
43		Average:	**0.0216**				3.312			

	A	B	C	D	E	F	G	H	I	J
44							3.433			
45		TMIS:	0.007				3.333			
46			0.007				3.344			
47			0.007				3.388			
48		Average:	**0.007**				3.364			
49							3.364			
50						Average:	**3.364**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-11**								Project #:	241460
3	**SAAMI Drop Test**									
4	Serial #:	S6599038			Model:	700 VS-SF II		Date:	8/2/2007	
5	Trigger Assembly Type:	40X XMP			Trigger Assembly #:	40X XMP B16		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	8			Caliber:	220 Swift				
7	***Start:***									
8		Engagement:	0.0195			Trigger Pull:	3.056			
9			0.0194				2.989			
10			0.0194				3.049			
11		Average:	**0.0194**				3.037			
12							3.255			
13		TMIS:	0.003				3.069			
14			0.003				2.917			
15			0.003				3.104			
16		Average:	**0.003**				3.163			
17							3.068			
18						Average:	**3.071**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	X					
26				Barrel Vertical, Muzzle Down:	X					
27				Barrel Horizontal, Left Side Up:	X					
28				Barrel Horizontal, Right Side Up:	X					
29				Barrel Horizontal, Bottom Side Up:	X					
30				Barrel Horizontal, Bottom Side Down:	X					
31				Tester's Initials:	SW/JS		8/2/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0193			Trigger Pull:	3.529			
41			0.0192				3.634			
42			0.0192				3.450			
43		Average:	**0.0192**				3.598			

	A	B	C	D	E	F	G	H	I	J
44							3.554			
45		TMIS:	0.004				3.501			
46			0.005				3.469			
47			0.004				3.449			
48		Average:	**0.004**				3.435			
49							3.385			
50						Average:	**3.500**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-12**								Project #:	241460
3	**SAAMI Drop Test**									
4	Serial #:	S6599093			Model:	700 VS-SF II		Date:	8/2/2007	
5	Trigger Assembly Type:	40X XMP			Trigger Assembly #:	40X XMP B17		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	8			Caliber:	220 Swift				
7	***Start:***									
8		Engagement:	0.0191			Trigger Pull:	3.106			
9			0.0192				3.080			
10			0.0192				3.001			
11		Average:	**0.0192**				3.023			
12							3.043			
13		TMIS:	0.003				3.031			
14			0.003				3.050			
15			0.003				3.046			
16		Average:	**0.003**				3.080			
17							3.034			
18						Average:	**3.049**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	X					
26				Barrel Vertical, Muzzle Down:	X					
27				Barrel Horizontal, Left Side Up:	X					
28				Barrel Horizontal, Right Side Up:	X					
29				Barrel Horizontal, Bottom Side Up:	X					
30				Barrel Horizontal, Bottom Side Down:	X					
31				Tester's Initials:	SW/JS		8/2/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0207			Trigger Pull:	3.165			
41			0.0205				3.144			
42			0.0204				3.112			
43		Average:	**0.0205**				3.127			

	A	B	C	D	E	F	G	H	I	J
44							3.158			
45		TMIS:	0.003				3.230			
46			0.004				3.260			
47			0.003				3.231			
48		Average:	**0.003**				3.310			
49							3.212			
50						Average:	**3.195**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-13**								Project #:	241460
3	**SAAMI Drop Test**									
4	Serial #:	S6599115			Model:	700 VS-SF II		Date:	8/2/2007	
5	Trigger Assembly Type:	40X XMP			Trigger Assembly #:	40X XMP B18		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	8			Caliber:	220 Swift				
7	***Start:***									
8		Engagement:	0.0193			Trigger Pull:	3.082			
9			0.0190				2.985			
10			0.0192				2.958			
11		Average:	**0.0192**				3.112			
12							2.994			
13		TMIS:	0.005				2.998			
14			0.005				3.036			
15			0.005				2.989			
16		Average:	**0.005**				3.047			
17							2.995			
18						Average:	**3.020**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	**X**					
26				Barrel Vertical, Muzzle Down:	**X**					
27				Barrel Horizontal, Left Side Up:	**X**					
28				Barrel Horizontal, Right Side Up:	**X**					
29				Barrel Horizontal, Bottom Side Up:	**X**					
30				Barrel Horizontal, Bottom Side Down:	**X**		magazine released			
31				Tester's Initials:	SW/JS		8/2/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0191			Trigger Pull:	2.970			
41			0.0192				2.932			
42			0.0190				2.984			
43		Average:	**0.0191**				3.026			

	A	B	C	D	E	F	G	H	I	J
44							3.042			
45		TMIS:	0.006				3.007			
46			0.006				2.950			
47			0.006				2.956			
48		Average:	**0.006**				2.959			
49							2.928			
50						Average:	**2.975**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-14**								Project #:	241460
3	**SAAMI Drop Test**									
4	Serial #:	S6596135			Model:	700 Sendero SF II		Date:	8/2/2007	
5	Trigger Assembly Type:	40X XMP			Trigger Assembly #:	40X XMP B19		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	8			Caliber:	300 Win Mag				
7	***Start:***									
8		Engagement:	0.0191			Trigger Pull:	3.061			
9			0.0192				3.099			
10			0.0190				3.044			
11		Average:	**0.0191**				2.990			
12							3.074			
13		TMIS:	0.006				3.034			
14			0.006				3.109			
15			0.006				3.058			
16		Average:	**0.006**				3.135			
17							2.993			
18						Average:	**3.060**			
19										
20	Comments:									
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	X					
26				Barrel Vertical, Muzzle Down:	X					
27				Barrel Horizontal, Left Side Up:	X					
28				Barrel Horizontal, Right Side Up:	X					
29				Barrel Horizontal, Bottom Side Up:	X					
30				Barrel Horizontal, Bottom Side Down:	X					
31				Tester's Initials:	SW/JS		8/2/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0195			Trigger Pull:	3.093			
41			0.0196				3.110			
42			0.0194				3.058			
43		Average:	**0.0195**				3.087			

	A	B	C	D	E	F	G	H	I	J
44							3.115			
45		TMIS:	0.007				3.102			
46			0.007				2.985			
47			0.007				3.053			
48		Average:	**0.007**				3.122			
49							3.128			
50						Average:	**3.085**			

	A	B	C	D	E	F	G	H	I	J
1									TLW	2328
2	**B-15**								Project #:	241460
3	**SAAMI Drop Test**									
4	Serial #:	S6602971			Model:	700 Sendero SF II		Date:	8/2/2007	
5	Trigger Assembly Type:	40X XMP		Trigger Assembly #:		40X XMP B20		Stock Type:	Injection molded	
6	Previous Rds/Cycles:	8		Caliber:		300 Win Mag				
7	***Start:***									
8		Engagement:	0.0190			Trigger Pull:	3.249			
9			0.0191				3.073			
10			0.0190				3.026			
11		Average:	**0.0190**				3.077			
12							2.988			
13		TMIS:	0.004				3.073			
14			0.004				3.013			
15			0.004				3.030			
16		Average:	**0.004**				2.893			
17							2.941			
18						Average:	**3.036**			
19										
20	Comments:	Reset engagement and checked trigger pull after rotation test.								
21										
22										
23										
24	***Orientation:***				**Pass**	**Fail**	**Comments**			
25				Barrel Vertical, Muzzle Up:	X					
26				Barrel Vertical, Muzzle Down:	X					
27				Barrel Horizontal, Left Side Up:	X					
28				Barrel Horizontal, Right Side Up:	X					
29				Barrel Horizontal, Bottom Side Up:	X					
30				Barrel Horizontal, Bottom Side Down:	X		magazine released			
31				Tester's Initials:	SW/JS		8/2/2007			
32										
33	Notes:									
34										
35										
36										
37										
38										
39	***End:***									
40		Engagement:	0.0190			Trigger Pull:	3.177			
41			0.0190				2.918			
42			0.0191				3.031			
43		Average:	**0.0190**				3.066			

	A	B	C	D	E	F	G	H	I	J
44							2.984			
45		TMIS:	0.004				2.920			
46			0.004				3.041			
47			0.004				2.920			
48		Average:	**0.004**				2.958			
49							3.034			
50						Average:	**3.005**			

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	1	1		**R300W1**									
2	2	2	1		51			101		151		201	
3	3	3	2		52			102		152		202	
4	4	4	3		53			103		153		203	
5	5	5	4		54			104		154		204	
6	6	6	5		55			105		155		205	
7	7	7	6		56			106		156		206	
8	8	8	7		57			107		157		207	
9	9	9	8		58			108		158		208	
10	10	10	9		59			109		159		209	
11	11	11	10		60		**OK**	110		160	**OK**	210	
12	12	12	11		61			111		161		211	
13	13	13	12		62			112		162		212	
14	14	14	13		63			113		163		213	
15	15	15	14		64			114		164		214	
16	16	16	15		65			115		165		215	
17	17	17	16		66			116		166		216	
18	18	18	17		67			117		167		217	
19	19	19	18		68			118		168		218	
20	***20***	20	19		69			119		169		219	
21	21	21	20	**OK**	70			120	**OK**	170		220	**OK**
22	22	22	21		71			121		171		221	
23	23	23	22		72			122		172		222	
24	24	24	23		73			123		173		223	
25	25	25	24		74			124		174		224	
26	26	26	25		75			125		175		225	
27	27	27	26		76			126		176		226	
28	28	28	27		77			127		177		227	
29	29	29	28		78			128		178		228	
30	30	30	29		79			129		179		229	
31	31	31	30		80		**OK**	130		180	**OK**	230	
32	32	32	31		81			131		181		231	
33	33	33	32		82			132		182		232	
34	34	34	33		83			133		183		233	
35	35	35	34		84			134		184		234	
36	36	36	35		85			135		185		235	
37	37	37	36		86			136		186		236	
38	38	38	37		87			137		187		237	
39	39	39	38		88			138		188		238	
40	***40***	40	39		89			139		189		239	
41	41	41	40	**OK**	90			140	**OK**	190		240	**OK**
42	42	42	41		91			141		191		241	
43	43	43	42		92			142		192		242	
44	44	44	43		93			143		193		243	
45	45	45	44		94			144		194		244	
46	46	46	45		95			145		195		245	
47	47	47	46		96			146		196		246	
48	48	48	47		97			147		197		247	
49	49	49	48		98			148		198		248	
50	50	50	49		99			149		199		249	
51	48	48	50		100		**OK**	150		200	**OK**	250	

	A	B	C	D	E	F	G	H	I	J	K	L	M
52	49	49											
53	50	50											

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	1	1		**250**									
2	2	2	251		301			351		401		451	
3	3	3	252		302			352		402		452	
4	4	4	253		303			353		403		453	
5	5	5	254		304			354		404		454	
6	6	6	255		305			355		405		455	
7	7	7	256		306			356		406		456	
8	8	8	257		307			357		407		457	
9	9	9	258		308			358		408		458	
10	10	10	259		309			359		409		459	
11	11	11	260	**OK**	310			360	**OK**	410		460	**OK**
12	12	12	261		311			361		411		461	
13	13	13	262		312			362		412		462	
14	14	14	263		313			363		413		463	
15	15	15	264		314			364		414		464	
16	16	16	265		315			365		415		465	
17	17	17	266		316			366		416		466	
18	18	18	267		317			367		417		467	
19	19	19	268		318			368		418		468	
20	***20***	20	269		319			369		419		469	
21	21	21	270		320		**OK**	370		420	**OK**	470	
22	22	22	271		321			371		421		471	
23	23	23	272		322			372		422		472	
24	24	24	273		323			373		423		473	
25	25	25	274		324			374		424		474	
26	26	26	275		325			375		425		475	
27	27	27	276		326			376		426		476	
28	28	28	277		327			377		427		477	
29	29	29	278		328			378		428		478	
30	30	30	279		329			379		429		479	
31	31	31	280	**OK**	330			380	**OK**	430		480	**OK**
32	32	32	281		331			381		431		481	
33	33	33	282		332			382		432		482	
34	34	34	283		333			383		433		483	
35	35	35	284		334			384		434		484	
36	36	36	285		335			385		435		485	
37	37	37	286		336			386		436		486	
38	38	38	287		337			387		437		487	
39	39	39	288		338			388		438		488	
40	***40***	40	289		339			389		439		489	
41	41	41	290		340		**OK**	390		440	**OK**	490	
42	42	42	291		341			391		441		491	
43	43	43	292		342			392		442		492	
44	44	44	293		343			393		443		493	
45	45	45	294		344			394		444		494	
46	46	46	295		345			395		445		495	
47	47	47	296		346			396		446		496	
48	48	48	297		347			397		447		497	
49	49	49	298		348			398		448		498	
50	50	50	299		349			399		449		499	
51	48	48	300	**OK**	350			400	**OK**	450		500	**OK**

	A	B	C	D	E	F	G	H	I	J	K	L	M
52	49	49											
53	50	50											

Conduct a limited scope DAT on the 40X XMP trigger assembly on Model 700 varmint rifles. The limited scope test includes only the following tests:

- SAAMI Jar-Off on 15 guns
- SAAMI Rotation on 15 guns
- SAAMI Drop testing on 15 guns
- SAAMI 40 lb Safety Testing on 1 gun
- 500 rounds of endurance on one Model 700 Sendero (300 Win Mag).

Preliminary measurements and settings have been made and recorded for all trigger assemblies prior to commencement of testing. Please contact me to make any measurements between testing cycles.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2	**Trigger Assembly**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**B8**	**B9**	**B10**	**B11**	**B12**	**B13**	**B14**	**B15**
3	Trigger Housing	1	2	5	6	7	10	11	12	13	15	16	17	18	19	20
4	Trigger	1	2	5	6	7	10	11	12	13	15	16	17	18	19	20
5	Primary Trigger Pull Spring	1	2	5	6	7	10	11	12	13	15	16	17	18	19	20
6	Secondary Trigger Pull Spring	1	2	5	6	7	10	11	12	13	15	3	4	8	9	14

	A	B	C	D	E	F	G	H	I	J	K	L
1		700 VLS										
2		243 Win			Before Jar-Off						After Jar-Off	
3		G6445889	**Engagement**	**TMIS**	**Overtravel**	**MIN**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
4		40X XMP #B1	0.0191	0.004	0.034	2.585	3.100		0.0190	0.007	0.035	3.137
5			0.0190	0.004		2.492	3.072		0.0190	0.007		3.066
6			0.0191	0.004		2.505	3.015		0.0190	0.007		3.021
7						2.554	3.057			**Reset**		2.996
8						2.597	3.042			0.005		2.964
9						2.596	3.046			0.005		3.066
10						2.509	3.031			0.005		3.007
11						2.482	3.188					3.144
12						2.499	3.078					3.059
13						2.543	2.953					3.101
14						2.536	3.058					3.056
15												
16		**B-1**										
17												
18		700 VLS										
19		243 Win			Before Jar-Off						After Jar-Off	
20		G6446030	**Engagement**	**TMIS**	**Overtravel**	**MIN**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
21		40X XMP #B2	0.0190	0.005	0.035	2.530	3.085		0.0190	0.007	0.038	3.050
22			0.0190	0.005		2.559	3.031		0.0191	0.007		2.999
23			0.0190	0.005		2.526	3.061		0.0192	0.007		2.950
24						2.569	3.057			**Reset**		3.081
25						2.555	3.046			0.004		3.081
26						2.505	3.039			0.004		3.006
27						2.516	3.139			0.004		2.920
28						2.491	3.058					2.965
29						2.580	3.082					2.913
30						2.481	3.065					3.074
31						2.531	3.066					3.004
32												
33		**B-2**										
34												
35		700 VLS										
36		243 Win			Before Jar-Off						After Jar-Off	
37		G6446152	**Engagement**	**TMIS**	**Overtravel**	**MIN**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
38		40X XMP #B5	0.0192	0.004	0.035	2.547	2.985		0.0193	0.007	0.035	3.045
39			0.0191	0.004		2.528	2.980		0.0191	0.007		3.064
40			0.0192	0.004		2.523	3.048		0.0191	0.007		2.902
41						2.491	3.065			**Reset**		3.090
42						2.544	2.961			0.004		3.003
43						2.511	3.042			0.004		3.085
44						2.522	3.012			0.004		2.997
45						2.510	3.107					3.173

	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1													
2		**Before Rotation**		**After Rotation**					**Before Drop**		**After Drop**		
3		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**
4		NA		0.0190	0.005	0.033	3.114		3.031		0.0193	0.005	0.034
5				0.0190	0.005		3.064		2.915		0.0190	0.006	
6				0.0190	0.005		3.122		3.057		0.0191	0.005	
7							3.211		3.104				
8							3.416		3.113				
9							3.271		3.070				
10							3.240		3.159				
11							3.199		3.099				
12							3.203		3.118				
13							3.149		3.109				
14		#DIV/0!					3.199		3.078				
15													
16													
17													
18													
19		**Before Rotation**		**After Rotation**					**Before Drop**		**After Drop**		
20		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**
21		NA		0.0198	0.004	0.033	2.928		2.974		0.0194	0.004	0.034
22				0.0198	0.005		3.094		3.142		0.0192	0.004	
23				0.0198	0.004		3.082		3.085		0.0191	0.004	
24				**Reset**			3.018		3.008				
25				0.0192			2.972		3.156				
26				0.0193			3.218		3.169				
27				0.0192			2.985		3.069				
28							3.118		2.993				
29							2.939		3.147				
30							2.842		2.857				
31		#DIV/0!					3.020		3.060				
32													
33													
34													
35													
36		**Before Rotation**		**After Rotation**					**Before Drop**		**After Drop**		
37		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**
38		NA		0.0191	0.004	0.033	3.083		NA		0.0194	0.004	0.033
39				0.0192	0.004		3.042				0.0194	0.004	
40				0.0192	0.005		3.006				0.0193	0.004	
41							3.010						
42							2.972						
43							3.008						
44							3.057						
45							3.126						

	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1											
2			After 500 Rds					After Safety Test			
3	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
4	3.094										
5	3.241										
6	3.225										
7	3.229										
8	3.122										
9	3.131										
10	3.209										
11	3.225										
12	3.220										
13	3.200										
14	3.190										
15											
16											
17											
18											
19			After 500 Rds					After Safety Test			
20	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
21	3.055										
22	3.104										
23	2.966										
24	2.979										
25	3.101										
26	3.112										
27	3.044										
28	2.988										
29	3.083										
30	3.008										
31	3.044										
32											
33											
34											
35											
36			After 500 Rds					After Safety Test			
37	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
38	3.103										
39	3.091										
40	3.069										
41	3.031										
42	3.034										
43	3.048										
44	3.069										
45	3.082										

	A	B	C	D	E	F	G	H	I	J	K	L
46						2.504	3.072					3.092
47						2.500	3.115					3.045
48						2.518	3.039					3.050
49												
50		**B-3**										
51												
52		700 VLS-TH										
53		243 Win			**Before Jar-Off**						**After Jar-Off**	
54		G6446188	**Engagement**	**TMIS**	**Overtravel**	**MIN**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
55		40X XMP #B6	0.0191	0.004	0.032	2.613	3.080		0.0192	0.005	0.030	3.008
56			0.0193	0.004		2.503	3.005		0.0193	0.005		2.973
57			0.0192	0.004		2.564	3.019		0.0193	0.005		2.974
58						2.504	2.990					2.989
59						2.464	3.087					3.012
60						2.507	2.994					2.968
61						2.468	3.034					2.972
62						2.504	3.060					2.997
63						2.494	3.104					2.990
64						2.537	3.072					3.061
65						2.516	3.045					2.994
66												
67		**B-4**										
68												
69		700 VLS-TH										
70		243 Win			**Before Jar-Off**						**After Jar-Off**	
71		G6446238	**Engagement**	**TMIS**	**Overtravel**	**MIN**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
72		40X XMP #B7	0.0192	0.004	0.037	2.483	3.082		0.0190	0.005	0.037	2.984
73			0.0192	0.004		2.534	3.083		0.0190	0.005		2.953
74			0.0192	0.004		2.542	3.115		0.0190	0.005		2.988
75						2.496	3.020					2.992
76						2.560	3.057					2.976
77						2.524	3.028					2.984
78						2.498	3.022					2.933
79						2.476	3.124					3.053
80						2.545	3.064					3.028
81						2.492	3.012					2.958
82						2.515	3.061					2.985
83												
84		**B-5**										
85												
86		700 SPS										
87		243 Win			**Before Jar-Off**						**After Jar-Off**	
88		G6645883	**Engagement**	**TMIS**	**Overtravel**	**MIN**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
89		40X XMP #B10	0.0190	0.004	0.034	2.523	3.050		0.0193	0.004	0.036	2.879
90			0.0190	0.004		2.525	2.985		0.0194	0.004		2.939

	M	N	O	P	Q	R	S	T	U	V	W	X	Y
46							3.120						
47							3.118						
48		#DIV/0!					3.054		#DIV/0!				
49													
50													
51													
52													
53		**Before Rotation**		**After Rotation**					**Before Drop**		**After Drop**		
54		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**
55		2.933		0.0191	0.005	0.033	3.112		3.129		0.0193	0.006	0.036
56		3.068		0.0191	0.005		2.979		3.107		0.0192	0.006	
57		2.995		0.0192	0.005		3.033		3.059		0.0193	0.006	
58		3.101					3.013		3.013				
59		3.035					2.939		3.087				
60		3.027					2.969		3.088				
61		2.967					2.961		3.061				
62		2.945					2.983		3.058				
63		2.982					2.958		3.117				
64		3.066					2.921		3.191				
65		3.012					2.987		3.091				
66													
67													
68													
69													
70		**Before Rotation**		**After Rotation**					**Before Drop**		**After Drop**		
71		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**
72		2.974		0.0191	0.005	0.037	2.991		NA		0.0194	0.006	0.038
73		2.975		0.0192	0.005		3.090				0.0191	0.006	
74		3.018		0.0191	0.005		3.012				0.0192	0.006	
75		3.053					3.083						
76		3.030					3.026						
77		3.036					3.015						
78		3.015					3.080						
79		3.104					2.995						
80		3.039					3.083						
81		3.080					2.979						
82		3.032					3.035		#DIV/0!				
83													
84													
85													
86													
87		**Before Rotation**		**After Rotation**					**Before Drop**		**After Drop**		
88		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**
89		2.931		0.0193	0.004	0.036	3.037		NA		0.0193	0.005	0.037
90		3.036		0.0193	0.004		3.117				0.0194	0.005	

	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
46	3.046										
47	3.072										
48	3.065										
49											
50											
51											
52											
53					After 500 Rds					After Safety Test	
54	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
55	3.220										
56	3.199										
57	3.189										
58	3.084										
59	3.082										
60	3.107										
61	3.101										
62	3.120										
63	3.180										
64	3.064										
65	3.135										
66											
67											
68											
69											
70					After 500 Rds					After Safety Test	
71	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
72	3.084										
73	3.063										
74	3.099										
75	2.998										
76	3.023										
77	3.026										
78	3.121										
79	3.085										
80	3.009										
81	3.071										
82	3.058										
83											
84											
85											
86											
87					After 500 Rds					After Safety Test	
88	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
89	3.105										
90	3.237										

	A	B	C	D	E	F	G	H	I	J	K	L
91			0.0191	0.004		2.494	3.024		0.0193	0.004		2.906
92						2.479	2.996					2.941
93						2.550	3.013					2.976
94						2.533	3.047					2.961
95						2.501	3.079					3.082
96						2.493	3.080					3.034
97						2.496	3.076					2.983
98						2.499	3.007					2.991
99						2.509	3.036					2.969
100												
101		**B-6**										
102												
103		700 SPS										
104		243 Win			**Before Jar-Off**						**After Jar-Off**	
105		G6645888	**Engagement**	**TMIS**	**Overtravel**	**MIN**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
106		40X XMP #B11	0.0190	0.003	0.030	2.524	3.126		0.0209	0.006	0.030	3.176
107			0.0190	0.004		2.594	3.066		0.0208	0.006		3.131
108			0.0190	0.003		2.591	3.047		0.0209	0.006		3.089
109						2.585	3.077		**Reset**			3.158
110						2.534	3.001		0.0190			3.112
111						2.565	3.015		0.0190			3.112
112						2.548	3.019		0.0191			3.103
113						2.587	3.090					3.172
114						2.581	3.053					3.120
115						2.585	3.039					3.117
116						2.569	3.053					3.129
117												
118		**B-7**										
119												
120		700 SPS										
121		243 Win			**Before Jar-Off**						**After Jar-Off**	
122		G6645893	**Engagement**	**TMIS**	**Overtravel**	**MIN**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
123		40X XMP #B12	0.0192	0.003	0.034	2.536	3.017		0.0190	0.005	0.034	3.265
124			0.0192	0.003		2.580	3.049		0.0191	0.005		3.277
125			0.0191	0.003		2.553	3.057		0.0190	0.005		3.241
126						2.542	3.016					3.222
127						2.521	3.020					3.259
128						2.498	3.113					3.264
129						2.581	3.023					3.298
130						2.600	3.066					3.197
131						2.611	2.978					3.209
132						2.585	3.116					3.250
133						2.561	3.046					3.248
134												
135		**B-8**										

	M	N	O	P	Q	R	S	T	U	V	W	X	Y
91		3.053		0.0193	0.004		3.061				0.0195	0.005	
92		2.941					3.074						
93		2.984					3.114						
94		2.969					3.095						
95		2.999					3.043						
96		3.063					3.122						
97		3.072					3.020						
98		3.073					3.120						
99		3.012					3.080		#DIV/0!				
100													
101													
102													
103													
104		**Before Rotation**		**After Rotation**					**Before Drop**		**After Drop**		
105		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**
106		3.018		0.0192	0.004	0.030	3.085		NA		0.0193	0.004	0.031
107		3.015		0.0191	0.004		3.107				0.0190	0.004	
108		3.026		0.0193	0.004		3.019				0.0191	0.004	
109		3.017					3.030						
110		3.058					3.039						
111		3.065					3.044						
112		3.009					3.110						
113		2.966					3.055						
114		2.988					3.087						
115		3.022					3.153						
116		3.018					3.073		#DIV/0!				
117													
118													
119													
120													
121		**Before Rotation**		**After Rotation**					**Before Drop**		**After Drop**		
122		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**
123		2.918		0.0193	0.005	0.035	3.374		3.059		0.0193	0.005	0.037
124		3.085		0.0194	0.005		3.364		2.970		0.0194	0.005	
125		3.034		0.0192	0.005		3.336		3.012		0.0193	0.005	
126		2.979					3.399		3.077				
127		3.064					3.323		3.080				
128		3.142					3.371		3.092				
129		3.061					3.302		3.118				
130		3.034					3.420		3.049				
131		3.134					3.264		3.040				
132		2.980					3.313		3.045				
133		3.043					3.347		3.054				
134													
135													

	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
91	3.272										
92	3.162										
93	3.169										
94	3.238										
95	3.171										
96	3.164										
97	3.161										
98	3.146										
99	3.183										
100											
101											
102											
103											
104					After 500 Rds					After Safety Test	
105	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
106	3.198										
107	3.291										
108	3.193										
109	3.176										
110	3.202										
111	3.200										
112	3.228										
113	3.181										
114	3.122										
115	3.102										
116	3.189										
117											
118											
119											
120											
121					After 500 Rds					After Safety Test	
122	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
123	3.382										
124	3.391										
125	3.326										
126	3.311										
127	3.268										
128	3.365										
129	3.566										
130	3.482										
131	3.370										
132	3.427										
133	3.389										
134											
135											

	A	B	C	D	E	F	G	H	I	J	K	L
136		**B-8**										
137		700 SPS										
138		243 Win			Before Jar-Off						After Jar-Off	
139		G6645938	**Engagement**	**TMIS**	**Overtravel**	**MIN**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
140		40X XMP #B13	0.0190	0.004	0.032	2.555	2.999		0.0190	0.004	0.032	3.141
141			0.0191	0.004		2.569	3.058		0.0190	0.004		3.106
142			0.0191	0.004		2.601	3.055		0.0190	0.004		3.077
143						2.475	3.084					3.106
144						2.539	3.047					3.096
145						2.555	3.018					3.102
146						2.593	3.088					3.088
147						2.566	3.082					3.083
148						2.499	3.055					3.099
149						2.468	3.087					3.126
150						2.542	3.057					3.102
151												
152		**B-9**										
153												
154		700 SPS										
155		243 Win			Before Jar-Off						After Jar-Off	
156		G6645949	**Engagement**	**TMIS**	**Overtravel**	**MIN**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
157		40X XMP #B15	0.0190	0.004	0.032	2.520	2.970		0.0193	0.005	0.032	3.003
158			0.0190	0.004		2.576	3.036		0.0194	0.005		2.936
159			0.0190	0.004		2.550	3.028		0.0192	0.005		2.911
160						2.583	3.035					2.850
161						2.564	3.020					2.860
162						2.583	3.011					2.877
163						2.542	3.012					2.874
164						2.512	2.982					2.859
165						2.541	3.006					2.893
166						2.553	3.022					3.061
167						2.552	3.012					2.912
168												
169		**B-10**										
170												
171		700 VS-SF II										
172		220 Swift			Before Jar-Off						After Jar-Off	
173		S6599038	**Engagement**	**TMIS**	**Overtravel**	**MIN**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
174		40X XMP #B16	0.0191	0.004	0.031	2.515	3.126		0.0193	0.003	0.029	3.020
175			0.0191	0.004		2.513	3.035		0.0190	0.003		2.998
176			0.0192	0.004		2.502	3.118		0.0193	0.003		3.103
177						2.494	3.164					3.062
178						2.509	3.105					3.175
179						2.569	2.999					3.199
180						2.495	3.140					3.155

	M	N	O	P	Q	R	S	T	U	V	W	X	Y
136													
137													
138		**Before Rotation**		**After Rotation**					**Before Drop**		**After Drop**		
139		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**
140		3.009		0.0190	0.005	0.032	3.074		NA		0.0192	0.005	0.032
141		3.029		0.0190	0.005		2.966				0.0193	0.005	
142		3.101		0.0192	0.005		3.047				0.0191	0.005	
143		3.014					3.074						
144		3.056					2.974						
145		2.970					3.116						
146		2.984					2.974						
147		3.059					2.961						
148		2.973					2.992						
149		3.064					2.977						
150		3.026					3.016		#DIV/0!				
151													
152													
153													
154													
155		**Before Rotation**		**After Rotation**					**Before Drop**		**After Drop**		
156		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**
157		2.968		0.0193	0.004	0.034	3.020		3.124		0.0215	0.007	0.036
158		3.034		0.0192	0.004		2.993		3.111		0.0215	0.007	
159		2.996		0.0190	0.004		2.930		3.047		0.0217	0.007	
160		3.006					2.899		3.046				
161		3.034					3.042		3.039				
162		3.055					2.961		3.053				
163		3.115					2.880		3.064				
164		3.023					2.950		3.122				
165		3.025					3.070		3.006				
166		3.044					2.986		3.102				
167		3.030					2.973		3.071				
168													
169													
170													
171													
172		**Before Rotation**		**After Rotation**					**Before Drop**		**After Drop**		
173		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**
174		3.129		0.0195	0.003	0.030	3.056		NA		0.0193	0.004	0.031
175		3.062		0.0194	0.003		2.989				0.0192	0.005	
176		3.013		0.0194	0.003		3.049				0.0192	0.004	
177		3.158					3.037						
178		3.099					3.255						
179		3.104					3.069						
180		3.047					2.917						

	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
136											
137											
138			After 500 Rds					After Safety Test			
139	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
140	3.111										
141	3.000										
142	2.988										
143	3.013										
144	3.041										
145	3.099										
146	2.953										
147	2.952										
148	2.996										
149	3.036										
150	3.019										
151											
152											
153											
154											
155			After 500 Rds					After Safety Test			
156	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
157	3.400										
158	3.342										
159	3.355										
160	3.312										
161	3.433										
162	3.333										
163	3.344										
164	3.388										
165	3.364										
166	3.364										
167	3.364										
168											
169											
170											
171											
172			After 500 Rds					After Safety Test			
173	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
174	3.529										
175	3.634										
176	3.450										
177	3.598										
178	3.554										
179	3.501										
180	3.469										

	A	B	C	D	E	F	G	H	I	J	K	L
181						2.542	3.023					3.112
182						2.593	3.028					3.214
183						2.504	3.134					3.204
184						2.524	3.087					3.124
185												
186		**B-11**										
187												
188		700 VS-SF II										
189		220 Swift			**Before Jar-Off**						**After Jar-Off**	
190		S6599093	**Engagement**	**TMIS**	**Overtravel**	**MIN**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
191		40X XMP #B17	0.0193	0.004	0.035	2.503	3.050		0.0199	0.003	0.027	3.292
192			0.0193	0.004		2.587	3.084		0.0197	0.003		3.216
193			0.0193	0.004		2.509	3.095		0.0197	0.003		3.207
194						2.529	3.041		**Reset**			3.248
195						2.498	3.009		0.0192			3.132
196						2.573	3.077		0.0190			3.184
197						2.470	3.058		0.0193			3.189
198						2.501	3.036					3.210
199						2.480	3.115					3.245
200						2.458	3.073					3.204
201						2.511	3.064					3.213
202												
203		**B-12**										
204												
205		700 VS-SF II										
206		220 Swift			**Before Jar-Off**						**After Jar-Off**	
207		S6599115	**Engagement**	**TMIS**	**Overtravel**	**MIN**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
208		40X XMP #B18	0.0191	0.004	0.032	2.636	3.064		0.0194	0.005	0.032	2.834
209			0.0190	0.004		2.596	3.109		0.0192	0.005		2.849
210			0.0192	0.004		2.535	3.091		0.0193	0.005		2.898
211						2.538	3.068					2.826
212						2.553	3.089					2.793
213						2.547	3.112					2.755
214						2.570	3.036					2.732
215						2.552	3.085					2.812
216						2.554	3.052					2.868
217						2.608	3.110					2.855
218						2.569	3.082					2.822
219												
220		**B-13**										
221												
222		700 Sendero SF II										
223		300 Win Mag			**Before Jar-Off**						**After Jar-Off**	
224		S6596135	**Engagement**	**TMIS**	**Overtravel**	**MIN**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
225		40X XMP #B19	0.0191	0.003	0.034	2.453	3.034		0.0193	0.006	0.035	3.188

	M	N	O	P	Q	R	S	T	U	V	W	X	Y
181		3.147					3.104						
182		3.079					3.163						
183		3.103					3.068						
184		3.094					3.071		#DIV/0!				
185													
186													
187													
188													
189		**Before Rotation**		**After Rotation**					**Before Drop**		**After Drop**		
190		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**
191		3.042		0.0191	0.003	0.026	3.106		NA		0.0207	0.003	0.026
192		3.038		0.0192	0.003		3.080				0.0205	0.004	
193		3.018		0.0192	0.003		3.001				0.0204	0.003	
194		3.039					3.023						
195		3.072					3.043						
196		3.066					3.031						
197		3.073					3.050						
198		3.061					3.046						
199		3.096					3.080						
200		3.116					3.034						
201		3.062					3.049		#DIV/0!				
202													
203													
204													
205													
206		**Before Rotation**		**After Rotation**					**Before Drop**		**After Drop**		
207		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**
208		3.077		0.0193	0.005	0.034	3.082		NA		0.0191	0.006	0.034
209		2.997		0.0190	0.005		2.985				0.0192	0.006	
210		3.03		0.0192	0.005		2.958				0.0190	0.006	
211		2.979					3.112						
212		3.043					2.994						
213		3.031					2.998						
214		3.047					3.036						
215		3.052					2.989						
216		3.015					3.047						
217		3.019					2.995						
218		3.029					3.020		#DIV/0!				
219													
220													
221													
222													
223		**Before Rotation**		**After Rotation**					**Before Drop**		**After Drop**		
224		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**
225		NA		0.0191	0.006	0.034	3.061		NA		0.0195	0.007	0.034

	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
181	3.449										
182	3.435										
183	3.385										
184	3.500										
185											
186											
187											
188											
189				After 500 Rds					After Safety Test		
190	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
191	3.165										
192	3.144										
193	3.112										
194	3.127										
195	3.158										
196	3.230										
197	3.260										
198	3.231										
199	3.310										
200	3.212										
201	3.195										
202											
203											
204											
205											
206				After 500 Rds					After Safety Test		
207	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
208	2.970										
209	2.932										
210	2.984										
211	3.026										
212	3.042										
213	3.007										
214	2.950										
215	2.956										
216	2.959										
217	2.928										
218	2.975										
219											
220											
221											
222											
223				After 500 Rds					After Safety Test		
224	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
225	3.093										

	A	B	C	D	E	F	G	H	I	J	K	L
226			0.0190	0.003		2.574	3.006		0.0191	0.006		3.076
227			0.0191	0.003		2.524	3.060		0.0191	0.006		3.088
228						2.531	3.087					3.098
229						2.572	3.006					3.027
230						2.511	3.072					3.056
231						2.593	3.044					3.008
232						2.558	3.076					3.010
233						2.516	2.999					3.059
234						2.545	3.001					3.101
235						2.538	3.039					3.071
236												
237		**B-14**										
238												
239		700 Sendero SF II										
240		300 Win Mag	**Before Jar-Off**						**After Jar-Off**			
241		S6602971	**Engagement**	**TMIS**	**Overtravel**	**MIN**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
242		40X XMP #B20	0.0192	0.004	0.032	2.536	3.096		0.0194	0.004	0.033	3.001
243			0.0193	0.004		2.560	3.055		0.0194	0.004		3.072
244			0.0192	0.004		2.452	3.097		0.0193	0.004		3.016
245						2.589	3.028					3.066
246						2.597	3.100					3.055
247						2.592	3.116					3.037
248						2.543	3.055					3.039
249						2.558	3.028					3.074
250						2.428	3.051					3.008
251						2.559	3.125					3.009
252						2.541	3.075					3.038
253												
254		**B-15**										
255												

	M	N	O	P	Q	R	S	T	U	V	W	X	Y
226				0.0192	0.006		3.099				0.0196	0.007	
227				0.0190	0.006		3.044				0.0194	0.007	
228							2.990						
229							3.074						
230							3.034						
231							3.109						
232							3.058						
233							3.135						
234							2.993						
235		#DIV/0!					3.060		#DIV/0!				
236													
237													
238													
239													
240		**Before Rotation**		**After Rotation**					**Before Drop**		**After Drop**		
241		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**
242		NA		0.0197	0.004	0.032	3.082		3.249		0.0190	0.004	0.031
243				0.0198	0.004		2.985		3.073		0.0190	0.004	
244				0.0199	0.004		2.958		3.026		0.0191	0.004	
245				**Reset**			3.112		3.077				
246				0.0190			2.994		2.988				
247				0.0191			2.998		3.073				
248				0.0190			3.036		3.013				
249							2.989		3.030				
250							3.047		2.893				
251							2.995		2.941				
252		#DIV/0!					3.020		3.036				
253													
254													
255													

	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
226	3.110										
227	3.058										
228	3.087										
229	3.115										
230	3.102										
231	2.985										
232	3.053										
233	3.122										
234	3.128										
235	3.085										
236											
237											
238											
239											
240			After 500 Rds					After Safety Test			
241	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**		**Engagement**	**TMIS**	**Overtravel**	**Trigger Pull**
242	3.177		0.0190	0.004	0.033	3.387		0.0190	0.004	0.032	3.186
243	2.918		0.0190	0.004		3.431		0.0190	0.004		3.218
244	3.031		0.0191	0.004		3.295		0.0191	0.004		3.184
245	3.066					3.460					3.167
246	2.984					3.237					3.267
247	2.920					3.367					3.284
248	3.041					3.318					3.289
249	2.920					3.215					3.215
250	2.958					3.419					3.259
251	3.034					3.478					3.149
252	3.005					3.361					3.222
253											
254											
255											

	A	B	C	D	E	F	G	H	I
1	G6445889								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.094	0.016	0	0.039	0.031	
5			2	3.241	0.015	0.008	0.04	0.031	
6			3	3.225	0.015	0.007	0.04	0.03	
7			4	3.229	0.016	0.006	0.04	0.032	
8			5	3.122	0.015	0.007	0.039	0.029	
9			6	3.131	0.017	0.007	0.039	0.033	
10			7	3.209	0.015	0.007	0.04	0.031	
11			8	3.225	0.017	0	0.04	0.034	
12			9	3.22	0.018	0.007	0.039	0.035	
13			10	3.2	0.015	0.007	0.04	0.03	
14			Avg:	3.19	0.016	0.006	0.04	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.19	0.016	0.006	0.04	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6445889								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.137	0.016	0	0.042	0.032	
5			2	3.066	0.015	0	0.042	0.029	
6			3	3.021	0.015	0.007	0.043	0.03	
7			4	2.996	0.014	0	0.042	0.028	
8			5	2.964	0.016	0	0.042	0.031	
9			6	3.066	0.015	0.006	0.042	0.03	
10			7	3.007	0.016	0	0.042	0.032	
11			8	3.144	0.014	0	0.042	0.029	
12			9	3.059	0.014	0	0.042	0.029	
13			10	3.101	0.014	0	0.042	0.029	
14			Avg:	3.056	0.015	0.001	0.042	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.056	0.015	0.001	0.042	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6445889								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.114	0.017	0	0.04	0.036	
5			2	3.064	0.015	0.008	0.04	0.03	
6			3	3.122	0.018	0.007	0.04	0.035	
7			4	3.211	0.015	0.006	0.04	0.031	
8			5	3.416	0.018	0.007	0.04	0.039	
9			6	3.271	0.018	0	0.04	0.037	
10			7	3.24	0.015	0.006	0.04	0.031	
11			8	3.199	0.016	0.006	0.041	0.033	
12			9	3.203	0.017	0.005	0.04	0.035	
13			10	3.149	0.015	0.006	0.041	0.03	
14			Avg:	3.199	0.016	0.005	0.04	0.034	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.199	0.016	0.005	0.04	0.034	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6445889								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.031	0.015	0.007	0.039	0.029	
5			2	2.915	0.014	0.006	0.038	0.027	
6			3	3.057	0.014	0.006	0.04	0.028	
7			4	3.104	0.015	0.006	0.04	0.03	
8			5	3.113	0.017	0.006	0.039	0.033	
9			6	3.07	0.017	0.006	0.04	0.032	
10			7	3.159	0.017	0.007	0.04	0.033	
11			8	3.099	0.016	0.006	0.04	0.032	
12			9	3.118	0.014	0.007	0.04	0.028	
13			10	3.109	0.014	0.006	0.041	0.029	
14			Avg:	3.078	0.015	0.006	0.04	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.078	0.015	0.006	0.04	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6445889 BEFORE JAR-OFF								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.1	0.016	0.007	0.042	0.032	
5			2	3.072	0.014	0	0.042	0.028	
6			3	3.015	0.016	0	0.041	0.03	
7			4	3.057	0.015	0	0.041	0.028	
8			5	3.042	0.015	0	0.042	0.029	
9			6	3.046	0.016	0.006	0.042	0.031	
10			7	3.031	0.015	0	0.042	0.028	
11			8	3.188	0.014	0	0.043	0.029	
12			9	3.078	0.015	0	0.041	0.029	
13			10	2.953	0.016	0	0.042	0.03	
14			Avg:	3.058	0.015	0.001	0.042	0.029	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.058	0.015	0.001	0.042	0.029	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6445889								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.004	0.024	0.005	0.029	0.068	
5			2	4.872	0.022	0.006	0.029	0.074	
6			3	4.924	0.027	0	0.023	0.087	
7			4	4.964	0.025	0.006	0.023	0.084	
8			5	5.012	0.026	0	0.022	0.089	
9			6	4.33	0.023	0.006	0.029	0.07	
10			7	4.916	0.025	0	0.029	0.086	
11			8	4.937	0.023	0	0.023	0.08	
12			9	4.945	0.025	0	0.025	0.086	
13			10	4.939	0.022	0	0.03	0.075	
14			Avg:	4.784	0.024	0.002	0.026	0.08	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.784	0.024	0.002	0.026	0.08	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6445889								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.91	0.023	0	0.03	0.063	
5			2	3.91	0.022	0	0.031	0.061	
6			3	3.87	0.025	0	0.03	0.066	
7			4	3.86	0.025	0.006	0.03	0.067	
8			5	3.907	0.023	0	0.03	0.065	
9			6	3.953	0.021	0	0.031	0.06	
10			7	3.931	0.022	0	0.031	0.061	
11			8	4.027	0.024	0	0.03	0.068	
12			9	3.882	0.024	0	0.029	0.066	
13			10	3.876	0.026	0.007	0.03	0.068	
14			Avg:	3.913	0.024	0.001	0.03	0.065	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.913	0.024	0.001	0.03	0.065	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6445889								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.585	0.015	0	0.039	0.026	
5			2	2.492	0.013	0	0.039	0.023	
6			3	2.505	0.014	0	0.039	0.025	
7			4	2.554	0.013	0	0.039	0.024	
8			5	2.597	0.014	0	0.039	0.025	
9			6	2.596	0.014	0	0.039	0.025	
10			7	2.509	0.013	0	0.039	0.023	
11			8	2.482	0.015	0	0.039	0.026	
12			9	2.499	0.013	0	0.039	0.023	
13			10	2.543	0.013	0	0.039	0.024	
14			Avg:	2.536	0.014	0	0.039	0.024	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.536	0.014	0	0.039	0.024	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6445949								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.4	0.02	0.007	0.038	0.045	
5			2	3.342	0.019	0	0.037	0.042	
6			3	3.355	0.02	0.007	0.038	0.045	
7			4	3.312	0.018	0.007	0.037	0.041	
8			5	3.433	0.019	0.007	0.038	0.043	
9			6	3.333	0.018	0.007	0.037	0.042	
10			7	3.344	0.018	0.007	0.038	0.041	
11			8	3.388	0.018	0.007	0.038	0.041	
12			9	3.364	0.02	0.007	0.038	0.044	
13			10	3.364	0.018	0.007	0.038	0.04	
14			Avg:	3.364	0.019	0.006	0.038	0.042	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.364	0.019	0.006	0.038	0.042	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645949								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.003	0.017	0	0.036	0.033	
5			2	2.936	0.016	0	0.036	0.032	
6			3	2.911	0.015	0	0.037	0.029	
7			4	2.85	0.016	0	0.035	0.031	
8			5	2.86	0.014	0	0.036	0.028	
9			6	2.877	0.015	0	0.037	0.029	
10			7	2.874	0.016	0	0.036	0.03	
11			8	2.859	0.014	0	0.036	0.028	
12			9	2.893	0.015	0	0.036	0.029	
13			10	3.061	0.016	0	0.036	0.031	
14			Avg:	2.912	0.015	0	0.036	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.912	0.015	0	0.036	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645949								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.02	0.018	0	0.037	0.036	
5			2	2.993	0.016	0	0.038	0.032	
6			3	2.93	0.015	0	0.038	0.03	
7			4	2.899	0.017	0	0.037	0.033	
8			5	3.042	0.015	0	0.038	0.031	
9			6	2.961	0.016	0	0.037	0.032	
10			7	2.88	0.016	0	0.037	0.031	
11			8	2.95	0.017	0	0.038	0.034	
12			9	3.07	0.015	0	0.037	0.031	
13			10	2.986	0.015	0	0.038	0.029	
14			Avg:	2.973	0.016	0	0.038	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.973	0.016	0	0.038	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645949								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.124	0.017	0	0.037	0.036	
5			2	3.111	0.018	0	0.037	0.038	
6			3	3.047	0.016	0	0.037	0.035	
7			4	3.046	0.016	0	0.038	0.035	
8			5	3.039	0.016	0	0.037	0.034	
9			6	3.053	0.016	0	0.038	0.034	
10			7	3.064	0.016	0	0.037	0.034	
11			8	3.122	0.016	0	0.038	0.035	
12			9	3.006	0.018	0	0.036	0.038	
13			10	3.102	0.017	0	0.038	0.035	
14			Avg:	3.071	0.017	0	0.037	0.035	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.071	0.017	0	0.037	0.035	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645949 BEFORE JAR-OFF								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.97	0.015	0	0.037	0.029	
5			2	3.036	0.015	0	0.037	0.029	
6			3	3.028	0.015	0	0.036	0.029	
7			4	3.035	0.015	0.007	0.037	0.031	
8			5	3.02	0.015	0.007	0.037	0.029	
9			6	3.011	0.015	0	0.037	0.03	
10			7	3.012	0.015	0.007	0.037	0.03	
11			8	2.982	0.016	0	0.036	0.031	
12			9	3.006	0.015	0.007	0.037	0.029	
13			10	3.022	0.015	0	0.036	0.03	
14			Avg:	3.012	0.015	0.003	0.037	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.012	0.015	0.003	0.037	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645949								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.058	0.021	0.004	0.036	0.074	
5			2	5.319	0.018	0	0.036	0.067	
6			3	5.245	0.022	0	0.035	0.08	
7			4	5.309	0.021	0	0.035	0.078	
8			5	5.495	0.022	0.004	0.035	0.085	
9			6	5.287	0.021	0	0.035	0.078	
10			7	5.582	0.018	0	0.036	0.071	
11			8	5.451	0.02	0.004	0.035	0.076	
12			9	5.76	0.019	0	0.036	0.072	
13			10	5.747	0.02	0	0.036	0.077	
14			Avg:	5.425	0.02	0.001	0.036	0.076	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.425	0.02	0.001	0.036	0.076	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645949								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.968	0.015	0	0.037	0.03	
5			2	3.034	0.015	0	0.037	0.03	
6			3	2.996	0.015	0	0.038	0.03	
7			4	3.006	0.015	0	0.038	0.031	
8			5	3.034	0.015	0	0.037	0.031	
9			6	3.055	0.016	0	0.037	0.032	
10			7	3.115	0.015	0	0.037	0.031	
11			8	3.023	0.015	0	0.037	0.031	
12			9	3.025	0.016	0	0.037	0.032	
13			10	3.044	0.017	0	0.037	0.034	
14			Avg:	3.03	0.015	0	0.037	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.03	0.015	0	0.037	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645949								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.499	0.018	0	0.036	0.059	
5			2	4.517	0.018	0.004	0.036	0.06	
6			3	4.441	0.018	0	0.036	0.059	
7			4	4.558	0.021	0	0.035	0.069	
8			5	4.711	0.018	0	0.036	0.06	
9			6	4.869	0.021	0	0.036	0.072	
10			7	4.433	0.018	0.004	0.035	0.059	
11			8	4.788	0.019	0.004	0.035	0.063	
12			9	4.694	0.018	0.004	0.036	0.06	
13			10	4.707	0.019	0.004	0.036	0.061	
14			Avg:	4.622	0.019	0.002	0.036	0.062	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.622	0.019	0.002	0.036	0.062	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645949								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.52	0.015	0	0.037	0.026	
5			2	2.576	0.014	0	0.037	0.024	
6			3	2.55	0.016	0	0.037	0.026	
7			4	2.583	0.014	0	0.037	0.024	
8			5	2.564	0.014	0	0.037	0.024	
9			6	2.583	0.014	0	0.037	0.025	
10			7	2.542	0.014	0	0.036	0.025	
11			8	2.512	0.016	0	0.037	0.027	
12			9	2.541	0.016	0	0.037	0.027	
13			10	2.553	0.014	0	0.037	0.024	
14			Avg:	2.552	0.015	0	0.037	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.552	0.015	0	0.037	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599038								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS-SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.529	0.014	0	0.038	0.033	
5			2	3.634	0.015	0	0.038	0.036	
6			3	3.45	0.016	0	0.038	0.035	
7			4	3.598	0.013	0	0.037	0.031	
8			5	3.554	0.015	0.006	0.038	0.036	
9			6	3.501	0.015	0.006	0.038	0.035	
10			7	3.469	0.015	0.006	0.037	0.035	
11			8	3.449	0.016	0	0.037	0.035	
12			9	3.435	0.016	0.005	0.037	0.036	
13			10	3.385	0.016	0	0.038	0.036	
14			Avg:	3.5	0.015	0.002	0.038	0.035	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.5	0.015	0.002	0.038	0.035	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599038								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS-SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.02	0.014	0	0.038	0.029	
5			2	2.998	0.015	0	0.038	0.029	
6			3	3.103	0.015	0.006	0.037	0.031	
7			4	3.062	0.015	0	0.038	0.03	
8			5	3.175	0.015	0.007	0.037	0.03	
9			6	3.199	0.014	0	0.038	0.027	
10			7	3.155	0.015	0.007	0.038	0.029	
11			8	3.112	0.015	0.007	0.037	0.029	
12			9	3.214	0.014	0.007	0.037	0.029	
13			10	3.204	0.015	0.007	0.036	0.031	
14			Avg:	3.124	0.015	0.004	0.037	0.029	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.124	0.015	0.004	0.037	0.029	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599038								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS-SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.056	0.016	0	0.037	0.033	
5			2	2.989	0.015	0	0.037	0.032	
6			3	3.049	0.015	0	0.037	0.031	
7			4	3.037	0.016	0	0.037	0.033	
8			5	3.255	0.013	0	0.037	0.028	
9			6	3.069	0.014	0	0.037	0.03	
10			7	2.917	0.015	0	0.037	0.03	
11			8	3.104	0.015	0	0.037	0.031	
12			9	3.163	0.014	0	0.037	0.03	
13			10	3.068	0.015	0	0.037	0.031	
14			Avg:	3.071	0.015	0	0.037	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.071	0.015	0	0.037	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599038 BEFORE JAR-OFF								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS-SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.126	0.013	0.006	0.041	0.027	
5			2	3.035	0.013	0	0.04	0.026	
6			3	3.118	0.016	0.006	0.04	0.032	
7			4	3.164	0.013	0.005	0.04	0.027	
8			5	3.105	0.013	0	0.04	0.026	
9			6	2.999	0.013	0	0.04	0.026	
10			7	3.14	0.013	0	0.04	0.028	
11			8	3.023	0.014	0	0.04	0.029	
12			9	3.028	0.013	0	0.04	0.026	
13			10	3.134	0.013	0.006	0.04	0.027	
14			Avg:	3.087	0.013	0.002	0.04	0.027	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.087	0.013	0.002	0.04	0.027	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599038								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.917	0.018	0.007	0.039	0.046	
5			2	3.885	0.02	0	0.039	0.052	
6			3	3.891	0.018	0.006	0.039	0.047	
7			4	3.843	0.019	0.006	0.039	0.047	
8			5	3.832	0.019	0.006	0.039	0.047	
9			6	3.854	0.018	0.006	0.039	0.046	
10			7	3.85	0.019	0.006	0.039	0.048	
11			8	3.876	0.018	0.006	0.039	0.046	
12			9	3.871	0.018	0	0.039	0.046	
13			10	3.883	0.018	0.006	0.039	0.046	
14			Avg:	3.87	0.019	0.005	0.039	0.047	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.87	0.019	0.005	0.039	0.047	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599038 BEFORE ROTATION								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS-SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.129	0.015	0	0.037	0.032	
5			2	3.062	0.015	0	0.037	0.03	
6			3	3.013	0.015	0.006	0.036	0.031	
7			4	3.158	0.015	0	0.038	0.03	
8			5	3.099	0.014	0	0.038	0.029	
9			6	3.104	0.014	0	0.038	0.028	
10			7	3.047	0.014	0	0.037	0.029	
11			8	3.147	0.016	0	0.036	0.033	
12			9	3.079	0.014	0	0.038	0.029	
13			10	3.103	0.014	0	0.037	0.029	
14			Avg:	3.094	0.015	0.001	0.037	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.094	0.015	0.001	0.037	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599038								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.882	0.019	0.006	0.038	0.047	
5			2	3.949	0.018	0.006	0.038	0.046	
6			3	3.915	0.018	0.006	0.038	0.045	
7			4	3.85	0.018	0.006	0.038	0.045	
8			5	3.928	0.018	0.006	0.038	0.047	
9			6	3.918	0.018	0.006	0.039	0.046	
10			7	3.864	0.018	0.006	0.038	0.045	
11			8	3.927	0.018	0.006	0.038	0.046	
12			9	3.947	0.017	0.006	0.039	0.045	
13			10	3.953	0.018	0.006	0.038	0.047	
14			Avg:	3.913	0.018	0.006	0.038	0.046	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.913	0.018	0.006	0.038	0.046	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599038								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS-SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.515	0.012	0	0.039	0.022	
5			2	2.513	0.012	0	0.04	0.021	
6			3	2.502	0.012	0	0.039	0.022	
7			4	2.494	0.014	0	0.04	0.025	
8			5	2.509	0.012	0	0.039	0.022	
9			6	2.569	0.014	0	0.039	0.024	
10			7	2.495	0.012	0	0.039	0.022	
11			8	2.542	0.012	0	0.039	0.022	
12			9	2.593	0.012	0	0.038	0.022	
13			10	2.504	0.012	0	0.039	0.021	
14			Avg:	2.524	0.012	0	0.039	0.022	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.524	0.012	0	0.039	0.022	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599093								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS-SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.165	0.018	0	0.036	0.037	
5			2	3.144	0.016	0.007	0.037	0.034	
6			3	3.112	0.016	0.007	0.037	0.032	
7			4	3.127	0.018	0.007	0.036	0.036	
8			5	3.158	0.016	0.007	0.037	0.033	
9			6	3.23	0.017	0.007	0.037	0.036	
10			7	3.26	0.016	0.007	0.038	0.033	
11			8	3.231	0.016	0	0.038	0.034	
12			9	3.31	0.018	0	0.037	0.039	
13			10	3.212	0.017	0.007	0.036	0.035	
14			Avg:	3.195	0.017	0.005	0.037	0.035	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.195	0.017	0.005	0.037	0.035	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599093								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remingotn	700 VS-SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.292	0.017	0	0.036	0.034	
5			2	3.216	0.016	0.008	0.036	0.033	
6			3	3.207	0.016	0.008	0.037	0.032	
7			4	3.248	0.016	0.007	0.036	0.033	
8			5	3.132	0.016	0.007	0.037	0.032	
9			6	3.184	0.016	0.007	0.037	0.032	
10			7	3.189	0.017	0.008	0.036	0.034	
11			8	3.21	0.017	0.007	0.036	0.034	
12			9	3.245	0.016	0.007	0.037	0.033	
13			10	3.204	0.018	0.007	0.035	0.035	
14			Avg:	3.213	0.017	0.007	0.036	0.033	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.213	0.017	0.007	0.036	0.033	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599093								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS-SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.106	0.016	0	0.037	0.032	
5			2	3.08	0.015	0.007	0.037	0.031	
6			3	3.001	0.016	0.007	0.037	0.031	
7			4	3.023	0.016	0	0.036	0.033	
8			5	3.043	0.016	0	0.037	0.031	
9			6	3.031	0.016	0.007	0.037	0.031	
10			7	3.05	0.016	0.007	0.037	0.031	
11			8	3.046	0.016	0.007	0.036	0.031	
12			9	3.08	0.016	0.007	0.037	0.031	
13			10	3.034	0.015	0	0.037	0.03	
14			Avg:	3.049	0.016	0.004	0.037	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.049	0.016	0.004	0.037	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599093 BEFORE JAR-OFF								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS-SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.05	0.016	0	0.036	0.031	
5			2	3.084	0.017	0.008	0.036	0.032	
6			3	3.095	0.016	0.008	0.036	0.031	
7			4	3.041	0.017	0.008	0.036	0.033	
8			5	3.009	0.016	0	0.039	0.031	
9			6	3.077	0.016	0.008	0.037	0.031	
10			7	3.058	0.017	0.008	0.036	0.032	
11			8	3.036	0.017	0.008	0.037	0.031	
12			9	3.115	0.018	0.008	0.036	0.033	
13			10	3.073	0.017	0.008	0.036	0.032	
14			Avg:	3.064	0.017	0.006	0.037	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.064	0.017	0.006	0.037	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599093								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.942	0.016	0.006	0.038	0.049	
5			2	4.913	0.015	0	0.039	0.048	
6			3	4.945	0.018	0.005	0.038	0.057	
7			4	4.835	0.018	0	0.038	0.055	
8			5	4.868	0.017	0.005	0.039	0.052	
9			6	4.916	0.017	0	0.039	0.053	
10			7	4.86	0.018	0.005	0.038	0.055	
11			8	4.907	0.016	0.005	0.038	0.05	
12			9	4.92	0.015	0.005	0.039	0.048	
13			10	4.956	0.015	0	0.038	0.048	
14			Avg:	4.906	0.017	0.003	0.038	0.052	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.906	0.017	0.003	0.038	0.052	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599093								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remingotn	700 VS-SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.042	0.015	0	0.037	0.03	
5			2	3.038	0.016	0.007	0.036	0.031	
6			3	3.018	0.017	0.006	0.037	0.033	
7			4	3.039	0.015	0.006	0.036	0.029	
8			5	3.072	0.016	0.006	0.036	0.032	
9			6	3.066	0.016	0.006	0.037	0.031	
10			7	3.073	0.016	0.007	0.037	0.031	
11			8	3.061	0.016	0	0.036	0.032	
12			9	3.096	0.017	0	0.036	0.035	
13			10	3.116	0.015	0.006	0.037	0.031	
14			Avg:	3.062	0.016	0.004	0.037	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.062	0.016	0.004	0.037	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599093								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.712	0.016	0.007	0.039	0.047	
5			2	4.746	0.019	0.006	0.038	0.055	
6			3	4.709	0.017	0.006	0.038	0.051	
7			4	4.765	0.016	0.006	0.039	0.048	
8			5	4.717	0.018	0.006	0.039	0.053	
9			6	4.742	0.02	0	0.038	0.057	
10			7	4.723	0.017	0.006	0.038	0.049	
11			8	4.751	0.018	0	0.038	0.052	
12			9	4.75	0.016	0.006	0.039	0.048	
13			10	4.718	0.016	0	0.038	0.048	
14			Avg:	4.733	0.017	0.004	0.038	0.051	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.733	0.017	0.004	0.038	0.051	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599093								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS-SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.503	0.015	0	0.041	0.027	
5			2	2.587	0.015	0	0.041	0.026	
6			3	2.509	0.016	0	0.04	0.027	
7			4	2.529	0.015	0	0.041	0.026	
8			5	2.498	0.015	0	0.041	0.027	
9			6	2.573	0.015	0	0.041	0.027	
10			7	2.47	0.015	0	0.041	0.026	
11			8	2.501	0.017	0	0.041	0.029	
12			9	2.48	0.017	0	0.04	0.029	
13			10	2.458	0.016	0	0.041	0.027	
14			Avg:	2.511	0.016	0	0.041	0.027	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.511	0.016	0	0.041	0.027	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599115								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS-SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.97	0.016	0	0.046	0.033	
5			2	2.932	0.015	0	0.047	0.03	
6			3	2.984	0.015	0	0.048	0.031	
7			4	3.026	0.015	0	0.047	0.032	
8			5	3.042	0.018	0	0.047	0.036	
9			6	3.007	0.015	0	0.048	0.031	
10			7	2.95	0.017	0	0.047	0.034	
11			8	2.956	0.015	0	0.048	0.031	
12			9	2.959	0.016	0.007	0.048	0.031	
13			10	2.928	0.016	0	0.048	0.032	
14			Avg:	2.975	0.016	0.001	0.047	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.975	0.016	0.001	0.047	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599115								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS-SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.834	0.016	0	0.047	0.03	
5			2	2.849	0.016	0	0.046	0.031	
6			3	2.898	0.015	0.007	0.046	0.029	
7			4	2.826	0.017	0.006	0.046	0.031	
8			5	2.793	0.017	0.006	0.047	0.031	
9			6	2.755	0.016	0.006	0.047	0.029	
10			7	2.732	0.016	0	0.047	0.029	
11			8	2.812	0.015	0.006	0.046	0.028	
12			9	2.868	0.015	0.006	0.046	0.029	
13			10	2.855	0.017	0.006	0.047	0.033	
14			Avg:	2.822	0.016	0.004	0.047	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.822	0.016	0.004	0.047	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599115								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS-SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.082	0.014	0	0.047	0.031	
5			2	2.985	0.015	0	0.047	0.03	
6			3	2.958	0.016	0	0.046	0.033	
7			4	3.112	0.017	0	0.048	0.035	
8			5	2.994	0.015	0.006	0.047	0.029	
9			6	2.998	0.016	0.005	0.047	0.033	
10			7	3.036	0.015	0.005	0.046	0.032	
11			8	2.989	0.016	0	0.047	0.033	
12			9	3.047	0.015	0	0.047	0.031	
13			10	2.995	0.014	0	0.047	0.03	
14			Avg:	3.02	0.015	0.002	0.047	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.02	0.015	0.002	0.047	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599115 BEFORE JAR-OFF								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS-SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.064	0.014	0	0.046	0.03	
5			2	3.109	0.015	0	0.045	0.031	
6			3	3.091	0.014	0	0.047	0.029	
7			4	3.068	0.016	0.006	0.046	0.031	
8			5	3.089	0.014	0	0.047	0.03	
9			6	3.112	0.014	0	0.047	0.029	
10			7	3.036	0.014	0.006	0.047	0.029	
11			8	3.085	0.014	0	0.046	0.028	
12			9	3.052	0.014	0	0.046	0.028	
13			10	3.11	0.016	0	0.046	0.034	
14			Avg:	3.082	0.015	0.001	0.046	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.082	0.015	0.001	0.046	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599115								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.899	0.019	0	0.037	0.061	
5			2	4.86	0.019	0.006	0.038	0.062	
6			3	4.869	0.018	0.006	0.038	0.059	
7			4	4.896	0.02	0.006	0.038	0.063	
8			5	4.903	0.018	0.006	0.038	0.058	
9			6	4.712	0.019	0	0.038	0.057	
10			7	4.923	0.018	0	0.038	0.059	
11			8	4.727	0.019	0.006	0.038	0.056	
12			9	4.91	0.018	0.005	0.038	0.059	
13			10	5.055	0.019	0.006	0.037	0.063	
14			Avg:	4.875	0.019	0.004	0.038	0.06	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.875	0.019	0.004	0.038	0.06	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599115								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS-SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.077	0.014	0	0.046	0.029	
5			2	2.997	0.014	0	0.046	0.028	
6			3	3.03	0.014	0.006	0.046	0.029	
7			4	2.979	0.016	0	0.046	0.032	
8			5	3.043	0.014	0	0.047	0.029	
9			6	3.031	0.014	0	0.047	0.029	
10			7	3.047	0.015	0	0.046	0.03	
11			8	3.052	0.015	0.006	0.046	0.03	
12			9	3.015	0.014	0	0.047	0.028	
13			10	3.019	0.016	0	0.046	0.032	
14			Avg:	3.029	0.015	0.001	0.046	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.029	0.015	0.001	0.046	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599115								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.559	0.019	0.007	0.038	0.058	
5			2	4.605	0.02	0.006	0.038	0.061	
6			3	4.583	0.021	0.006	0.038	0.062	
7			4	4.566	0.019	0	0.038	0.056	
8			5	4.566	0.022	0.007	0.038	0.065	
9			6	4.615	0.019	0.006	0.038	0.056	
10			7	4.628	0.019	0.006	0.037	0.056	
11			8	4.633	0.019	0.006	0.038	0.056	
12			9	4.655	0.022	0.006	0.037	0.066	
13			10	4.598	0.022	0	0.037	0.066	
14			Avg:	4.601	0.02	0.005	0.038	0.06	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.601	0.02	0.005	0.038	0.06	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599115								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VS-SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.636	0.014	0	0.045	0.024	
5			2	2.596	0.013	0	0.046	0.023	
6			3	2.535	0.013	0	0.046	0.023	
7			4	2.538	0.013	0	0.046	0.022	
8			5	2.553	0.013	0	0.045	0.022	
9			6	2.547	0.014	0	0.046	0.023	
10			7	2.57	0.014	0	0.046	0.024	
11			8	2.552	0.014	0	0.045	0.023	
12			9	2.554	0.014	0	0.045	0.023	
13			10	2.608	0.015	0	0.045	0.026	
14			Avg:	2.569	0.014	0	0.046	0.023	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.569	0.014	0	0.046	0.023	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6596135								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 Sendero SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.093	0.015	0	0.046	0.032	
5			2	3.11	0.015	0	0.046	0.032	
6			3	3.058	0.015	0	0.045	0.031	
7			4	3.087	0.015	0	0.046	0.031	
8			5	3.115	0.017	0	0.046	0.034	
9			6	3.102	0.016	0	0.045	0.032	
10			7	2.985	0.015	0	0.046	0.031	
11			8	3.053	0.015	0	0.045	0.032	
12			9	3.122	0.016	0	0.045	0.033	
13			10	3.128	0.016	0.006	0.045	0.033	
14			Avg:	3.085	0.016	0.001	0.046	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.085	0.016	0.001	0.046	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6596135								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 Sendero SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.188	0.014	0.007	0.044	0.029	
5			2	3.076	0.014	0.006	0.045	0.029	
6			3	3.088	0.014	0.006	0.043	0.028	
7			4	3.098	0.015	0.006	0.044	0.03	
8			5	3.027	0.015	0	0.043	0.031	
9			6	3.056	0.014	0	0.044	0.03	
10			7	3.008	0.014	0	0.044	0.027	
11			8	3.01	0.015	0.006	0.043	0.03	
12			9	3.059	0.014	0.006	0.044	0.029	
13			10	3.101	0.014	0.006	0.044	0.03	
14			Avg:	3.071	0.014	0.004	0.044	0.029	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.071	0.014	0.004	0.044	0.029	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6596135								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 Sendero SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.061	0.013	0	0.045	0.028	
5			2	3.099	0.015	0	0.045	0.031	
6			3	3.044	0.013	0	0.044	0.027	
7			4	2.99	0.015	0	0.044	0.03	
8			5	3.074	0.014	0	0.045	0.027	
9			6	3.034	0.015	0	0.044	0.03	
10			7	3.109	0.013	0	0.045	0.027	
11			8	3.058	0.013	0	0.045	0.026	
12			9	3.135	0.014	0	0.044	0.028	
13			10	2.993	0.013	0.006	0.045	0.026	
14			Avg:	3.06	0.014	0.001	0.045	0.028	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.06	0.014	0.001	0.045	0.028	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6596135 BEFORE JAR-OFF								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 Sendero SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.034	0.014	0	0.045	0.03	
5			2	3.006	0.014	0	0.045	0.029	
6			3	3.06	0.014	0	0.045	0.03	
7			4	3.087	0.014	0	0.045	0.029	
8			5	3.006	0.014	0	0.045	0.029	
9			6	3.072	0.014	0	0.045	0.03	
10			7	3.044	0.014	0	0.045	0.028	
11			8	3.076	0.014	0	0.045	0.03	
12			9	2.999	0.014	0	0.045	0.028	
13			10	3.001	0.014	0	0.045	0.029	
14			Avg:	3.039	0.014	0	0.045	0.029	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.039	0.014	0	0.045	0.029	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6596135								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 Sendero SF		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.126	0.019	0.007	0.04	0.056	
5			2	5.194	0.019	0	0.041	0.058	
6			3	4.734	0.021	0.007	0.039	0.06	
7			4	4.969	0.019	0.007	0.04	0.055	
8			5	5.334	0.019	0.007	0.041	0.06	
9			6	5.309	0.019	0	0.04	0.061	
10			7	5.311	0.02	0.007	0.041	0.062	
11			8	5.43	0.019	0.006	0.041	0.06	
12			9	5.523	0.022	0	0.04	0.07	
13			10	5.515	0.022	0.007	0.041	0.072	
14			Avg:	5.245	0.02	0.005	0.04	0.061	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.245	0.02	0.005	0.04	0.061	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6596135								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 Sendero SF		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.571	0.02	0.008	0.04	0.055	
5			2	4.692	0.02	0.008	0.04	0.056	
6			3	4.559	0.022	0.007	0.04	0.059	
7			4	4.614	0.02	0	0.041	0.056	
8			5	4.751	0.022	0.008	0.04	0.062	
9			6	4.663	0.02	0.007	0.039	0.056	
10			7	4.723	0.023	0.008	0.04	0.064	
11			8	4.665	0.02	0.008	0.04	0.057	
12			9	4.839	0.021	0.008	0.041	0.059	
13			10	4.774	0.02	0.007	0.04	0.058	
14			Avg:	4.685	0.021	0.007	0.04	0.058	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.685	0.021	0.007	0.04	0.058	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6596135								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 Sendero SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.453	0.013	0	0.044	0.023	
5			2	2.574	0.014	0	0.045	0.024	
6			3	2.524	0.014	0	0.045	0.024	
7			4	2.531	0.015	0	0.044	0.026	
8			5	2.572	0.014	0	0.044	0.023	
9			6	2.511	0.014	0	0.044	0.024	
10			7	2.593	0.014	0	0.044	0.025	
11			8	2.558	0.014	0	0.044	0.023	
12			9	2.516	0.013	0	0.044	0.022	
13			10	2.545	0.013	0	0.045	0.022	
14			Avg:	2.538	0.014	0	0.044	0.024	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.538	0.014	0	0.044	0.024	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6602971								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 Sendero SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.387	0.015	0	0.041	0.033	
5			2	3.431	0.015	0	0.041	0.033	
6			3	3.295	0.015	0	0.042	0.03	
7			4	3.46	0.016	0	0.041	0.035	
8			5	3.237	0.015	0	0.041	0.032	
9			6	3.367	0.017	0	0.042	0.036	
10			7	3.318	0.017	0	0.042	0.035	
11			8	3.215	0.015	0	0.041	0.03	
12			9	3.419	0.018	0.006	0.041	0.037	
13			10	3.478	0.014	0	0.041	0.031	
14			Avg:	3.361	0.016	0.001	0.041	0.033	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.361	0.016	0.001	0.041	0.033	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6602971								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 Sendero SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.177	0.014	0	0.041	0.03	
5			2	2.918	0.016	0	0.04	0.033	
6			3	3.031	0.014	0	0.04	0.029	
7			4	3.066	0.015	0	0.04	0.032	
8			5	2.984	0.014	0	0.04	0.028	
9			6	2.92	0.015	0	0.039	0.031	
10			7	3.041	0.015	0	0.04	0.033	
11			8	2.92	0.015	0	0.04	0.031	
12			9	2.958	0.014	0	0.04	0.029	
13			10	3.034	0.014	0	0.041	0.029	
14			Avg:	3.005	0.015	0	0.04	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.005	0.015	0	0.04	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6602971								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 Sendero SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.001	0.018	0	0.04	0.037	
5			2	3.072	0.017	0	0.04	0.036	
6			3	3.016	0.015	0	0.04	0.031	
7			4	3.066	0.018	0	0.039	0.037	
8			5	3.055	0.015	0	0.04	0.033	
9			6	3.037	0.015	0	0.04	0.032	
10			7	3.039	0.016	0	0.04	0.035	
11			8	3.074	0.015	0	0.04	0.032	
12			9	3.008	0.016	0	0.039	0.033	
13			10	3.009	0.015	0	0.04	0.032	
14			Avg:	3.038	0.016	0	0.04	0.034	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.038	0.016	0	0.04	0.034	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6602971								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 Sendero SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.131	0.017	0	0.04	0.037	
5			2	3.064	0.016	0	0.039	0.033	
6			3	2.926	0.017	0	0.04	0.035	
7			4	2.944	0.016	0	0.039	0.033	
8			5	2.988	0.017	0	0.04	0.035	
9			6	3.009	0.017	0	0.039	0.036	
10			7	3.045	0.015	0	0.04	0.031	
11			8	2.988	0.017	0	0.04	0.035	
12			9	3.053	0.016	0	0.039	0.034	
13			10	3.048	0.015	0	0.039	0.031	
14			Avg:	3.02	0.016	0	0.04	0.034	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.02	0.016	0	0.04	0.034	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6602971								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 Sendero SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.186	0.017	0	0.042	0.036	
5			2	3.218	0.016	0	0.042	0.033	
6			3	3.184	0.015	0	0.042	0.032	
7			4	3.167	0.015	0	0.042	0.031	
8			5	3.267	0.017	0	0.042	0.035	
9			6	3.284	0.017	0	0.042	0.035	
10			7	3.289	0.015	0	0.042	0.031	
11			8	3.215	0.015	0	0.042	0.03	
12			9	3.259	0.017	0	0.043	0.034	
13			10	3.149	0.015	0	0.043	0.03	
14			Avg:	3.222	0.016	0	0.042	0.033	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.222	0.016	0	0.042	0.033	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6602971								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 Sendero SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.249	0.016	0	0.041	0.034	
5			2	3.073	0.015	0	0.04	0.032	
6			3	3.026	0.015	0	0.04	0.031	
7			4	3.077	0.015	0	0.039	0.033	
8			5	2.988	0.015	0	0.04	0.031	
9			6	3.073	0.014	0	0.04	0.03	
10			7	3.013	0.015	0	0.04	0.03	
11			8	3.03	0.013	0	0.04	0.029	
12			9	2.893	0.014	0	0.041	0.028	
13			10	2.941	0.014	0	0.04	0.028	
14			Avg:	3.036	0.015	0	0.04	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.036	0.015	0	0.04	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6602971 BEFORE JAR-OFF								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 Sendero SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.096	0.017	0	0.039	0.037	
5			2	3.055	0.017	0	0.039	0.037	
6			3	3.097	0.016	0	0.039	0.034	
7			4	3.028	0.015	0	0.04	0.032	
8			5	3.1	0.015	0	0.04	0.034	
9			6	3.116	0.016	0	0.039	0.034	
10			7	3.055	0.018	0	0.039	0.037	
11			8	3.028	0.015	0	0.039	0.032	
12			9	3.051	0.017	0	0.04	0.036	
13			10	3.125	0.015	0	0.04	0.033	
14			Avg:	3.075	0.016	0	0.039	0.035	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.075	0.016	0	0.039	0.035	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6602971								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	Sendero SF		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.97	0.02	0	0.033	0.062	
5			2	5.188	0.02	0	0.033	0.066	
6			3	5.002	0.02	0.007	0.033	0.064	
7			4	5.07	0.021	0	0.033	0.067	
8			5	5.018	0.02	0	0.033	0.065	
9			6	5.248	0.02	0.007	0.033	0.067	
10			7	5.055	0.021	0	0.034	0.065	
11			8	5.155	0.022	0.007	0.033	0.072	
12			9	5.066	0.023	0	0.032	0.073	
13			10	5.008	0.02	0.007	0.033	0.064	
14			Avg:	5.078	0.021	0.003	0.033	0.067	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.078	0.021	0.003	0.033	0.067	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6602971								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	Sendero SF		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.955	0.023	0	0.033	0.071	
5			2	4.98	0.021	0	0.032	0.064	
6			3	4.874	0.02	0	0.033	0.061	
7			4	4.94	0.02	0	0.033	0.062	
8			5	4.881	0.023	0	0.032	0.07	
9			6	4.886	0.02	0.008	0.033	0.062	
10			7	4.969	0.021	0.008	0.033	0.063	
11			8	4.946	0.021	0	0.033	0.064	
12			9	4.931	0.024	0.008	0.034	0.072	
13			10	5.122	0.021	0	0.034	0.066	
14			Avg:	4.948	0.021	0.002	0.033	0.066	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.948	0.021	0.002	0.033	0.066	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6602971								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 Sendero SF II		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.536	0.014	0	0.04	0.026	
5			2	2.56	0.015	0	0.041	0.028	
6			3	2.452	0.014	0	0.04	0.024	
7			4	2.589	0.014	0	0.04	0.026	
8			5	2.597	0.014	0	0.04	0.025	
9			6	2.592	0.015	0	0.04	0.027	
10			7	2.543	0.014	0	0.04	0.026	
11			8	2.558	0.015	0	0.04	0.028	
12			9	2.428	0.014	0	0.04	0.025	
13			10	2.559	0.015	0	0.039	0.027	
14			Avg:	2.541	0.014	0	0.04	0.026	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.541	0.014	0	0.04	0.026	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446030								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.055	0.017	0	0.038	0.034	
5			2	3.104	0.016	0	0.038	0.033	
6			3	2.966	0.015	0	0.037	0.03	
7			4	2.979	0.016	0.007	0.037	0.032	
8			5	3.101	0.017	0.006	0.037	0.035	
9			6	3.112	0.015	0.006	0.038	0.031	
10			7	3.044	0.018	0	0.038	0.034	
11			8	2.988	0.015	0	0.037	0.031	
12			9	3.083	0.017	0.006	0.038	0.036	
13			10	3.008	0.016	0	0.037	0.034	
14			Avg:	3.044	0.016	0.003	0.038	0.033	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.044	0.016	0.003	0.038	0.033	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446030								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.05	0.016	0	0.041	0.033	
5			2	2.999	0.015	0	0.041	0.031	
6			3	2.95	0.015	0	0.041	0.03	
7			4	3.081	0.016	0	0.041	0.033	
8			5	3.081	0.015	0.006	0.041	0.031	
9			6	3.006	0.014	0	0.041	0.029	
10			7	2.92	0.016	0	0.041	0.033	
11			8	2.965	0.015	0	0.04	0.031	
12			9	2.913	0.016	0	0.041	0.032	
13			10	3.074	0.015	0	0.041	0.032	
14			Avg:	3.004	0.015	0.001	0.041	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.004	0.015	0.001	0.041	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446030								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.928	0.016	0	0.038	0.032	
5			2	3.094	0.015	0	0.038	0.032	
6			3	3.082	0.015	0	0.037	0.032	
7			4	3.018	0.014	0	0.038	0.029	
8			5	2.972	0.014	0	0.038	0.029	
9			6	3.218	0.015	0.006	0.037	0.031	
10			7	2.985	0.014	0	0.037	0.029	
11			8	3.118	0.015	0.006	0.037	0.031	
12			9	2.939	0.017	0	0.038	0.033	
13			10	2.842	0.015	0	0.037	0.029	
14			Avg:	3.02	0.015	0.001	0.038	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.02	0.015	0.001	0.038	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446030								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.974	0.016	0	0.038	0.032	
5			2	3.142	0.016	0.006	0.037	0.033	
6			3	3.085	0.016	0.006	0.037	0.033	
7			4	3.008	0.016	0	0.037	0.033	
8			5	3.156	0.015	0.006	0.037	0.031	
9			6	3.169	0.015	0	0.036	0.031	
10			7	3.069	0.014	0	0.037	0.029	
11			8	2.993	0.015	0	0.037	0.03	
12			9	3.147	0.017	0.006	0.037	0.035	
13			10	2.857	0.014	0	0.037	0.028	
14			Avg:	3.06	0.015	0.002	0.037	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.06	0.015	0.002	0.037	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446030 BEFORE JAR-OFF								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.085	0.014	0	0.039	0.029	
5			2	3.031	0.015	0	0.039	0.031	
6			3	3.061	0.014	0	0.039	0.029	
7			4	3.057	0.014	0	0.039	0.029	
8			5	3.046	0.015	0	0.039	0.03	
9			6	3.039	0.015	0	0.038	0.029	
10			7	3.139	0.015	0.006	0.039	0.03	
11			8	3.058	0.014	0.006	0.04	0.028	
12			9	3.082	0.015	0	0.038	0.03	
13			10	3.065	0.014	0	0.039	0.028	
14			Avg:	3.066	0.015	0.001	0.039	0.029	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.066	0.015	0.001	0.039	0.029	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446030								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.624	0.021	0.005	0.021	0.084	
5			2	5.606	0.025	0	0.021	0.094	
6			3	5.53	0.023	0	0.021	0.085	
7			4	5.65	0.024	0	0.02	0.091	
8			5	5.652	0.023	0.005	0.02	0.089	
9			6	5.67	0.022	0	0.02	0.086	
10			7	5.642	0.023	0	0.02	0.088	
11			8	5.66	0.024	0	0.02	0.092	
12			9	5.638	0.023	0.005	0.021	0.087	
13			10	5.645	0.025	0.006	0.02	0.094	
14			Avg:	5.632	0.023	0.002	0.02	0.089	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.632	0.023	0.002	0.02	0.089	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446030								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.366	0.025	0	0.03	0.074	
5			2	4.243	0.023	0.006	0.031	0.067	
6			3	4.34	0.023	0	0.03	0.069	
7			4	4.353	0.023	0.006	0.03	0.07	
8			5	4.385	0.023	0.006	0.03	0.069	
9			6	4.342	0.024	0	0.03	0.07	
10			7	4.396	0.023	0	0.031	0.069	
11			8	4.472	0.023	0.006	0.03	0.069	
12			9	4.431	0.023	0	0.03	0.069	
13			10	4.385	0.024	0	0.03	0.071	
14			Avg:	4.371	0.023	0.002	0.03	0.07	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.371	0.023	0.002	0.03	0.07	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446030								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.53	0.015	0	0.038	0.027	
5			2	2.559	0.013	0	0.039	0.025	
6			3	2.526	0.015	0	0.038	0.027	
7			4	2.569	0.015	0	0.039	0.028	
8			5	2.555	0.014	0	0.038	0.026	
9			6	2.505	0.014	0	0.038	0.026	
10			7	2.516	0.015	0	0.038	0.028	
11			8	2.491	0.014	0	0.038	0.026	
12			9	2.58	0.014	0	0.038	0.026	
13			10	2.481	0.013	0	0.038	0.024	
14			Avg:	2.531	0.014	0	0.038	0.026	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.531	0.014	0	0.038	0.026	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446152								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.103	0.016	0	0.037	0.033	
5			2	3.091	0.017	0	0.038	0.035	
6			3	3.069	0.015	0.006	0.038	0.031	
7			4	3.031	0.015	0	0.037	0.031	
8			5	3.034	0.017	0.006	0.038	0.033	
9			6	3.048	0.015	0	0.038	0.032	
10			7	3.069	0.017	0	0.037	0.034	
11			8	3.082	0.015	0	0.038	0.031	
12			9	3.046	0.016	0	0.037	0.032	
13			10	3.072	0.015	0.006	0.038	0.031	
14			Avg:	3.065	0.016	0.002	0.038	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.065	0.016	0.002	0.038	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446152								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.045	0.016	0	0.04	0.033	
5			2	3.064	0.016	0	0.039	0.032	
6			3	2.902	0.015	0	0.039	0.03	
7			4	3.09	0.016	0	0.04	0.032	
8			5	3.003	0.015	0	0.039	0.03	
9			6	3.085	0.015	0	0.04	0.031	
10			7	2.997	0.015	0	0.039	0.029	
11			8	3.173	0.015	0	0.04	0.031	
12			9	3.092	0.017	0	0.039	0.033	
13			10	3.045	0.015	0	0.04	0.03	
14			Avg:	3.05	0.016	0	0.04	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.05	0.016	0	0.04	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446152 AFTER ROTATION								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.083	0.016	0.006	0.037	0.033	
5			2	3.042	0.015	0.006	0.037	0.03	
6			3	3.006	0.016	0.006	0.037	0.033	
7			4	3.01	0.016	0.006	0.037	0.031	
8			5	2.972	0.017	0	0.037	0.033	
9			6	3.008	0.015	0.006	0.036	0.03	
10			7	3.057	0.015	0.006	0.037	0.03	
11			8	3.126	0.015	0.006	0.037	0.031	
12			9	3.12	0.016	0.006	0.036	0.033	
13			10	3.118	0.014	0.005	0.037	0.03	
14			Avg:	3.054	0.016	0.005	0.037	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.054	0.016	0.005	0.037	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446152 BEFORE JAR-OFF								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.985	0.015	0	0.038	0.03	
5			2	2.98	0.015	0	0.038	0.03	
6			3	3.048	0.014	0.006	0.039	0.029	
7			4	3.065	0.014	0.006	0.038	0.028	
8			5	2.961	0.014	0	0.039	0.029	
9			6	3.042	0.014	0	0.038	0.029	
10			7	3.012	0.016	0	0.038	0.031	
11			8	3.107	0.014	0.006	0.038	0.028	
12			9	3.072	0.015	0	0.037	0.031	
13			10	3.115	0.014	0.006	0.039	0.028	
14			Avg:	3.039	0.015	0.002	0.038	0.029	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.039	0.015	0.002	0.038	0.029	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446152								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.42	0.024	0	0.024	0.067	
5			2	4.654	0.025	0	0.022	0.073	
6			3	4.498	0.024	0	0.023	0.068	
7			4	4.782	0.024	0	0.022	0.071	
8			5	4.62	0.026	0	0.022	0.075	
9			6	4.827	0.023	0.007	0.022	0.071	
10			7	4.636	0.025	0	0.023	0.073	
11			8	4.67	0.024	0	0.023	0.069	
12			9	4.584	0.024	0	0.023	0.07	
13			10	4.636	0.024	0.008	0.023	0.071	
14			Avg:	4.633	0.024	0.002	0.023	0.071	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.633	0.024	0.002	0.023	0.071	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446152								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.288	0.025	0.009	0.024	0.066	
5			2	4.313	0.025	0	0.024	0.064	
6			3	4.275	0.025	0.009	0.025	0.066	
7			4	4.27	0.025	0	0.024	0.064	
8			5	4.123	0.025	0.009	0.024	0.063	
9			6	4.139	0.027	0	0.024	0.067	
10			7	4.199	0.024	0.008	0.028	0.062	
11			8	4.256	0.024	0	0.024	0.063	
12			9	4.168	0.025	0	0.024	0.064	
13			10	4.163	0.025	0	0.025	0.064	
14			Avg:	4.219	0.025	0.004	0.025	0.064	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.219	0.025	0.004	0.025	0.064	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446152								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.547	0.013	0	0.038	0.024	
5			2	2.528	0.014	0	0.038	0.025	
6			3	2.523	0.013	0	0.038	0.024	
7			4	2.491	0.013	0	0.038	0.024	
8			5	2.544	0.015	0	0.038	0.026	
9			6	2.511	0.015	0	0.038	0.027	
10			7	2.522	0.014	0	0.038	0.026	
11			8	2.51	0.015	0	0.038	0.026	
12			9	2.504	0.014	0	0.038	0.024	
13			10	2.5	0.013	0	0.039	0.024	
14			Avg:	2.518	0.014	0	0.038	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.518	0.014	0	0.038	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446188								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS-TH		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.22	0.015	0	0.036	0.032	
5			2	3.199	0.014	0	0.037	0.03	
6			3	3.189	0.016	0	0.037	0.034	
7			4	3.084	0.016	0.005	0.037	0.033	
8			5	3.082	0.015	0	0.037	0.03	
9			6	3.107	0.016	0	0.036	0.034	
10			7	3.101	0.014	0.005	0.036	0.029	
11			8	3.12	0.014	0.005	0.037	0.029	
12			9	3.18	0.016	0	0.037	0.033	
13			10	3.064	0.015	0	0.037	0.03	
14			Avg:	3.135	0.015	0.002	0.037	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.135	0.015	0.002	0.037	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446188								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS-TH		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.008	0.016	0	0.035	0.034	
5			2	2.973	0.015	0	0.035	0.031	
6			3	2.974	0.014	0	0.035	0.03	
7			4	2.989	0.015	0	0.035	0.031	
8			5	3.012	0.015	0	0.035	0.033	
9			6	2.968	0.016	0	0.035	0.034	
10			7	2.972	0.014	0	0.035	0.029	
11			8	2.997	0.015	0	0.034	0.032	
12			9	2.99	0.014	0	0.035	0.03	
13			10	3.061	0.016	0	0.035	0.034	
14			Avg:	2.994	0.015	0	0.035	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.994	0.015	0	0.035	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446188								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS-TH		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.112	0.015	0	0.034	0.033	
5			2	2.979	0.015	0	0.035	0.03	
6			3	3.033	0.016	0	0.035	0.033	
7			4	3.013	0.016	0.005	0.034	0.034	
8			5	2.939	0.014	0	0.035	0.029	
9			6	2.969	0.016	0	0.035	0.033	
10			7	2.961	0.016	0	0.034	0.034	
11			8	2.983	0.014	0	0.035	0.03	
12			9	2.958	0.014	0	0.035	0.029	
13			10	2.921	0.015	0	0.034	0.031	
14			Avg:	2.987	0.015	0.001	0.035	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.987	0.015	0.001	0.035	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446188								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.712	0.025	0	0.025	0.079	
5			2	4.676	0.027	0.006	0.025	0.083	
6			3	4.642	0.025	0	0.03	0.081	
7			4	4.75	0.024	0.006	0.028	0.077	
8			5	4.624	0.025	0	0.03	0.079	
9			6	4.647	0.025	0	0.025	0.08	
10			7	4.828	0.025	0	0.023	0.081	
11			8	4.72	0.025	0.006	0.024	0.079	
12			9	4.612	0.025	0.006	0.024	0.078	
13			10	4.696	0.026	0	0.024	0.082	
14			Avg:	4.691	0.025	0.002	0.026	0.08	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.691	0.025	0.002	0.026	0.08	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446188								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS-TH		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.129	0.014	0	0.035	0.028	
5			2	3.107	0.013	0	0.034	0.026	
6			3	3.059	0.013	0	0.035	0.027	
7			4	3.013	0.014	0	0.035	0.029	
8			5	3.087	0.014	0	0.036	0.029	
9			6	3.088	0.013	0	0.036	0.027	
10			7	3.061	0.013	0	0.035	0.027	
11			8	3.058	0.014	0	0.035	0.027	
12			9	3.117	0.013	0	0.036	0.027	
13			10	3.191	0.014	0.005	0.035	0.029	
14			Avg:	3.091	0.014	0.001	0.035	0.028	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.091	0.014	0.001	0.035	0.028	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446188 BEFORE JAR-OFF								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS-TH		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.08	0.013	0	0.034	0.029	
5			2	3.005	0.013	0	0.035	0.028	
6			3	3.019	0.013	0	0.034	0.028	
7			4	2.99	0.013	0	0.034	0.027	
8			5	3.087	0.016	0	0.035	0.033	
9			6	2.994	0.013	0	0.034	0.027	
10			7	3.034	0.013	0	0.034	0.027	
11			8	3.06	0.014	0	0.035	0.03	
12			9	3.104	0.014	0	0.034	0.029	
13			10	3.072	0.013	0	0.034	0.028	
14			Avg:	3.045	0.014	0	0.034	0.029	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.045	0.014	0	0.034	0.029	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446188								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.574	0.024	0	0.021	0.087	
5			2	5.52	0.025	0	0.021	0.088	
6			3	5.626	0.024	0	0.021	0.087	
7			4	5.491	0.026	0.006	0.021	0.095	
8			5	5.57	0.023	0	0.021	0.085	
9			6	5.497	0.023	0	0.022	0.083	
10			7	5.655	0.021	0	0.021	0.081	
11			8	5.303	0.023	0	0.023	0.083	
12			9	5.58	0.025	0	0.021	0.091	
13			10	5.574	0.024	0.005	0.021	0.086	
14			Avg:	5.539	0.024	0.001	0.021	0.087	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.539	0.024	0.001	0.021	0.087	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446188								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS-TH		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.933	0.015	0	0.035	0.03	
5			2	3.068	0.014	0	0.035	0.03	
6			3	2.995	0.015	0	0.035	0.032	
7			4	3.101	0.016	0	0.036	0.034	
8			5	3.035	0.015	0	0.036	0.031	
9			6	3.027	0.014	0	0.034	0.031	
10			7	2.967	0.016	0	0.035	0.032	
11			8	2.945	0.016	0	0.035	0.032	
12			9	2.982	0.014	0	0.035	0.029	
13			10	3.066	0.013	0	0.035	0.028	
14			Avg:	3.012	0.015	0	0.035	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.012	0.015	0	0.035	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446188								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS-TH		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.613	0.015	0	0.035	0.028	
5			2	2.503	0.015	0	0.035	0.027	
6			3	2.564	0.014	0	0.035	0.025	
7			4	2.504	0.013	0	0.035	0.024	
8			5	2.464	0.013	0	0.035	0.024	
9			6	2.507	0.013	0	0.034	0.024	
10			7	2.468	0.013	0	0.035	0.024	
11			8	2.504	0.014	0	0.035	0.025	
12			9	2.494	0.014	0	0.035	0.025	
13			10	2.537	0.013	0	0.035	0.025	
14			Avg:	2.516	0.014	0	0.035	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.516	0.014	0	0.035	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446238								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS-TH		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.084	0.017	0	0.04	0.036	
5			2	3.063	0.015	0	0.039	0.032	
6			3	3.099	0.017	0.005	0.039	0.035	
7			4	2.998	0.015	0	0.039	0.031	
8			5	3.023	0.015	0	0.04	0.031	
9			6	3.026	0.015	0	0.039	0.033	
10			7	3.121	0.015	0.005	0.04	0.032	
11			8	3.085	0.015	0	0.039	0.032	
12			9	3.009	0.017	0	0.039	0.034	
13			10	3.071	0.017	0	0.039	0.035	
14			Avg:	3.058	0.016	0.001	0.039	0.033	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.058	0.016	0.001	0.039	0.033	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446238								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS-TH		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.984	0.015	0	0.039	0.03	
5			2	2.953	0.015	0	0.038	0.03	
6			3	2.988	0.014	0	0.039	0.029	
7			4	2.992	0.016	0	0.04	0.033	
8			5	2.976	0.015	0	0.039	0.03	
9			6	2.984	0.014	0.006	0.039	0.029	
10			7	2.933	0.015	0	0.039	0.03	
11			8	3.053	0.017	0	0.039	0.034	
12			9	3.028	0.015	0.006	0.039	0.03	
13			10	2.958	0.016	0	0.038	0.032	
14			Avg:	2.985	0.015	0.001	0.039	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.985	0.015	0.001	0.039	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446238								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remingotn	700 VLS-TH		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.991	0.016	0	0.039	0.033	
5			2	3.09	0.015	0	0.039	0.032	
6			3	3.012	0.016	0.006	0.039	0.033	
7			4	3.083	0.015	0.005	0.039	0.032	
8			5	3.026	0.015	0.005	0.038	0.031	
9			6	3.015	0.016	0	0.038	0.032	
10			7	3.08	0.015	0	0.039	0.032	
11			8	2.995	0.014	0	0.039	0.03	
12			9	3.083	0.016	0.005	0.039	0.034	
13			10	2.979	0.016	0	0.038	0.032	
14			Avg:	3.035	0.015	0.002	0.039	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.035	0.015	0.002	0.039	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446238 BEFORE JAR-OFF								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS-TH		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.082	0.014	0	0.039	0.031	
5			2	3.083	0.017	0	0.038	0.035	
6			3	3.115	0.015	0	0.039	0.031	
7			4	3.02	0.015	0	0.039	0.032	
8			5	3.057	0.015	0.005	0.038	0.031	
9			6	3.028	0.016	0	0.039	0.033	
10			7	3.022	0.015	0	0.038	0.032	
11			8	3.124	0.014	0	0.039	0.03	
12			9	3.064	0.014	0.005	0.039	0.03	
13			10	3.012	0.015	0	0.039	0.03	
14			Avg:	3.061	0.015	0.001	0.039	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.061	0.015	0.001	0.039	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446238								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.474	0.024	0.006	0.02	0.085	
5			2	5.448	0.025	0	0.02	0.088	
6			3	5.647	0.025	0.006	0.02	0.09	
7			4	5.607	0.024	0.005	0.02	0.09	
8			5	5.245	0.025	0	0.021	0.083	
9			6	5.216	0.026	0	0.021	0.087	
10			7	5.421	0.023	0	0.021	0.083	
11			8	5.193	0.025	0	0.021	0.086	
12			9	5.362	0.027	0	0.021	0.095	
13			10	5.345	0.025	0	0.021	0.087	
14			Avg:	5.396	0.025	0.002	0.021	0.087	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.396	0.025	0.002	0.021	0.087	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446238								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS-TH		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.974	0.016	0	0.039	0.033	
5			2	2.975	0.015	0	0.039	0.03	
6			3	3.018	0.016	0	0.039	0.032	
7			4	3.053	0.015	0.006	0.039	0.031	
8			5	3.03	0.015	0	0.039	0.031	
9			6	3.036	0.014	0.006	0.039	0.029	
10			7	3.015	0.015	0.006	0.039	0.03	
11			8	3.104	0.015	0	0.039	0.031	
12			9	3.039	0.015	0	0.039	0.03	
13			10	3.08	0.015	0	0.039	0.031	
14			Avg:	3.032	0.015	0.002	0.039	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.032	0.015	0.002	0.039	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446238								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.118	0.026	0.007	0.021	0.085	
5			2	5.158	0.027	0	0.021	0.092	
6			3	5.238	0.024	0	0.022	0.08	
7			4	5.236	0.028	0.006	0.021	0.093	
8			5	5.148	0.025	0	0.022	0.08	
9			6	5.196	0.025	0	0.021	0.082	
10			7	5.275	0.025	0	0.021	0.082	
11			8	5.255	0.024	0	0.022	0.081	
12			9	5.212	0.027	0.007	0.021	0.089	
13			10	5.296	0.027	0.007	0.021	0.091	
14			Avg:	5.213	0.026	0.003	0.021	0.086	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.213	0.026	0.003	0.021	0.086	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6446238								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VLS-TH		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.483	0.015	0	0.039	0.027	
5			2	2.534	0.014	0	0.038	0.024	
6			3	2.542	0.015	0	0.039	0.026	
7			4	2.496	0.014	0	0.039	0.024	
8			5	2.56	0.015	0	0.038	0.025	
9			6	2.524	0.014	0	0.038	0.024	
10			7	2.498	0.015	0	0.038	0.026	
11			8	2.476	0.015	0	0.038	0.025	
12			9	2.545	0.015	0	0.039	0.027	
13			10	2.492	0.014	0	0.038	0.024	
14			Avg:	2.515	0.015	0	0.038	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.515	0.015	0	0.038	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645883								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.105	0.015	0	0.036	0.032	
5			2	3.237	0.014	0	0.036	0.03	
6			3	3.272	0.014	0	0.036	0.03	
7			4	3.162	0.016	0.005	0.037	0.034	
8			5	3.169	0.014	0	0.037	0.031	
9			6	3.238	0.014	0	0.037	0.031	
10			7	3.171	0.014	0	0.037	0.031	
11			8	3.164	0.014	0	0.037	0.031	
12			9	3.161	0.014	0	0.036	0.03	
13			10	3.146	0.014	0	0.037	0.029	
14			Avg:	3.183	0.014	0.001	0.037	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.183	0.014	0.001	0.037	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645883								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.879	0.014	0	0.038	0.028	
5			2	2.939	0.015	0	0.037	0.03	
6			3	2.906	0.014	0	0.037	0.028	
7			4	2.941	0.016	0	0.037	0.032	
8			5	2.976	0.016	0	0.037	0.031	
9			6	2.961	0.014	0.006	0.037	0.029	
10			7	3.082	0.015	0	0.037	0.031	
11			8	3.034	0.016	0.006	0.037	0.032	
12			9	2.983	0.014	0.006	0.037	0.028	
13			10	2.991	0.014	0	0.037	0.029	
14			Avg:	2.969	0.015	0.002	0.037	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.969	0.015	0.002	0.037	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645883								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.037	0.015	0	0.037	0.03	
5			2	3.117	0.015	0.006	0.037	0.033	
6			3	3.061	0.014	0	0.037	0.03	
7			4	3.074	0.014	0	0.037	0.029	
8			5	3.114	0.014	0	0.036	0.031	
9			6	3.095	0.014	0.005	0.036	0.03	
10			7	3.043	0.016	0	0.038	0.033	
11			8	3.122	0.014	0	0.037	0.03	
12			9	3.02	0.014	0	0.036	0.029	
13			10	3.12	0.014	0	0.037	0.029	
14			Avg:	3.08	0.014	0.001	0.037	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.08	0.014	0.001	0.037	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645883 BEFORE JAR-OFF								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.05	0.017	0	0.044	0.035	
5			2	2.985	0.015	0	0.043	0.032	
6			3	3.024	0.014	0	0.043	0.029	
7			4	2.996	0.014	0	0.043	0.028	
8			5	3.013	0.014	0	0.043	0.029	
9			6	3.047	0.015	0	0.042	0.031	
10			7	3.079	0.014	0	0.043	0.03	
11			8	3.08	0.016	0	0.042	0.033	
12			9	3.076	0.014	0	0.043	0.029	
13			10	3.007	0.014	0	0.043	0.028	
14			Avg:	3.036	0.015	0	0.043	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.036	0.015	0	0.043	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645883								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.991	0.019	0	0.032	0.065	
5			2	5.069	0.019	0.004	0.032	0.066	
6			3	5.223	0.019	0.004	0.032	0.068	
7			4	5.173	0.019	0	0.032	0.067	
8			5	5.33	0.019	0	0.032	0.07	
9			6	5.538	0.019	0.004	0.031	0.073	
10			7	5.592	0.019	0.004	0.031	0.071	
11			8	5.685	0.018	0	0.031	0.071	
12			9	6.007	0.022	0	0.031	0.088	
13			10	5.683	0.021	0	0.031	0.08	
14			Avg:	5.429	0.019	0.002	0.032	0.072	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.429	0.019	0.002	0.032	0.072	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645883								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.931	0.015	0	0.037	0.03	
5			2	3.036	0.015	0	0.036	0.031	
6			3	3.053	0.015	0	0.037	0.03	
7			4	2.941	0.014	0	0.036	0.029	
8			5	2.984	0.014	0	0.037	0.029	
9			6	2.969	0.015	0	0.037	0.03	
10			7	2.999	0.016	0.006	0.036	0.032	
11			8	3.063	0.015	0	0.036	0.032	
12			9	3.072	0.016	0	0.038	0.034	
13			10	3.073	0.014	0	0.037	0.029	
14			Avg:	3.012	0.015	0.001	0.037	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.012	0.015	0.001	0.037	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645883								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.603	0.02	0	0.031	0.074	
5			2	5.623	0.022	0.005	0.031	0.083	
6			3	5.511	0.021	0.005	0.031	0.079	
7			4	5.688	0.019	0	0.031	0.075	
8			5	5.76	0.02	0.005	0.031	0.078	
9			6	5.853	0.019	0	0.031	0.075	
10			7	5.694	0.019	0.005	0.031	0.074	
11			8	5.803	0.021	0.004	0.03	0.084	
12			9	5.71	0.019	0.005	0.031	0.074	
13			10	5.668	0.019	0	0.031	0.074	
14			Avg:	5.691	0.02	0.003	0.031	0.077	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.691	0.02	0.003	0.031	0.077	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645883								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.523	0.014	0	0.043	0.026	
5			2	2.525	0.014	0	0.044	0.025	
6			3	2.494	0.015	0	0.04	0.025	
7			4	2.479	0.015	0	0.04	0.025	
8			5	2.55	0.014	0	0.04	0.025	
9			6	2.533	0.014	0	0.041	0.024	
10			7	2.501	0.014	0	0.041	0.025	
11			8	2.493	0.015	0	0.042	0.026	
12			9	2.496	0.014	0	0.042	0.025	
13			10	2.499	0.015	0	0.043	0.027	
14			Avg:	2.509	0.014	0	0.042	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.509	0.014	0	0.042	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645888								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.198	0.018	0	0.034	0.04	
5			2	3.291	0.017	0.006	0.034	0.037	
6			3	3.193	0.017	0.007	0.034	0.036	
7			4	3.176	0.017	0.007	0.034	0.037	
8			5	3.202	0.018	0.006	0.034	0.039	
9			6	3.2	0.017	0.006	0.034	0.038	
10			7	3.228	0.016	0.006	0.035	0.036	
11			8	3.181	0.016	0.006	0.034	0.035	
12			9	3.122	0.016	0.006	0.035	0.035	
13			10	3.102	0.016	0.006	0.035	0.035	
14			Avg:	3.189	0.017	0.006	0.034	0.037	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.189	0.017	0.006	0.034	0.037	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645888								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.176	0.019	0	0.035	0.042	
5			2	3.131	0.017	0	0.036	0.039	
6			3	3.089	0.019	0	0.035	0.042	
7			4	3.158	0.017	0.005	0.036	0.038	
8			5	3.112	0.017	0	0.036	0.039	
9			6	3.112	0.018	0	0.035	0.04	
10			7	3.103	0.017	0.005	0.035	0.037	
11			8	3.172	0.018	0.005	0.035	0.04	
12			9	3.12	0.018	0	0.035	0.04	
13			10	3.117	0.019	0	0.036	0.041	
14			Avg:	3.129	0.018	0.002	0.035	0.04	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.129	0.018	0.002	0.035	0.04	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645888								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.085	0.017	0	0.034	0.038	
5			2	3.107	0.016	0.006	0.035	0.036	
6			3	3.019	0.016	0.006	0.034	0.035	
7			4	3.03	0.016	0.005	0.035	0.035	
8			5	3.039	0.017	0.005	0.034	0.037	
9			6	3.044	0.018	0.005	0.034	0.039	
10			7	3.11	0.016	0.006	0.034	0.035	
11			8	3.055	0.016	0.006	0.034	0.036	
12			9	3.087	0.016	0.006	0.035	0.035	
13			10	3.153	0.016	0.005	0.035	0.035	
14			Avg:	3.073	0.016	0.005	0.034	0.036	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.073	0.016	0.005	0.034	0.036	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645888 BEFORE JAR-OFF								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.126	0.018	0	0.036	0.04	
5			2	3.066	0.018	0.006	0.036	0.039	
6			3	3.047	0.018	0.006	0.035	0.039	
7			4	3.077	0.018	0.006	0.035	0.039	
8			5	3.001	0.019	0.005	0.036	0.041	
9			6	3.015	0.019	0	0.035	0.043	
10			7	3.019	0.017	0.006	0.035	0.038	
11			8	3.09	0.019	0.005	0.034	0.043	
12			9	3.053	0.018	0	0.036	0.039	
13			10	3.039	0.017	0	0.035	0.038	
14			Avg:	3.053	0.018	0.003	0.035	0.04	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.053	0.018	0.003	0.035	0.04	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645888								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3				[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.471	0.018	0	0.029	0.051	
5			2	4.473	0.02	0.005	0.029	0.056	
6			3	4.587	0.018	0	0.029	0.052	
7			4	4.332	0.018	0.005	0.029	0.05	
8			5	4.473	0.021	0	0.028	0.06	
9			6	4.388	0.02	0	0.029	0.054	
10			7	4.443	0.017	0	0.029	0.05	
11			8	4.308	0.018	0.005	0.029	0.049	
12			9	4.838	0.018	0.005	0.03	0.055	
13			10	4.274	0.018	0	0.029	0.049	
14			Avg:	4.459	0.019	0.002	0.029	0.053	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.459	0.019	0.002	0.029	0.053	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645888								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.018	0.017	0	0.035	0.037	
5			2	3.015	0.017	0	0.034	0.037	
6			3	3.026	0.018	0.005	0.035	0.039	
7			4	3.017	0.016	0	0.035	0.034	
8			5	3.058	0.018	0	0.035	0.039	
9			6	3.065	0.017	0	0.035	0.036	
10			7	3.009	0.017	0	0.035	0.036	
11			8	2.966	0.016	0.006	0.035	0.033	
12			9	2.988	0.016	0.006	0.035	0.034	
13			10	3.022	0.017	0	0.035	0.037	
14			Avg:	3.018	0.017	0.002	0.035	0.036	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.018	0.017	0.002	0.035	0.036	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645888								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.009	0.018	0.006	0.03	0.046	
5			2	4.139	0.018	0	0.029	0.047	
6			3	4.069	0.018	0.005	0.03	0.047	
7			4	3.954	0.018	0.005	0.029	0.048	
8			5	3.929	0.02	0.005	0.029	0.052	
9			6	4.055	0.018	0.005	0.03	0.048	
10			7	4.152	0.018	0.005	0.029	0.047	
11			8	4.061	0.018	0.005	0.03	0.047	
12			9	4.17	0.019	0.005	0.03	0.051	
13			10	4.172	0.018	0.005	0.029	0.047	
14			Avg:	4.071	0.018	0.005	0.03	0.048	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.071	0.018	0.005	0.03	0.048	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645888								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.524	0.018	0	0.034	0.033	
5			2	2.594	0.018	0	0.034	0.033	
6			3	2.591	0.017	0	0.035	0.032	
7			4	2.585	0.017	0	0.035	0.031	
8			5	2.534	0.017	0	0.034	0.031	
9			6	2.565	0.018	0	0.034	0.032	
10			7	2.548	0.019	0	0.035	0.034	
11			8	2.587	0.017	0	0.035	0.032	
12			9	2.581	0.019	0	0.035	0.034	
13			10	2.585	0.018	0	0.035	0.033	
14			Avg:	2.569	0.018	0	0.035	0.033	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.569	0.018	0	0.035	0.033	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645893								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.382	0.014	0	0.04	0.033	
5			2	3.391	0.015	0	0.04	0.033	
6			3	3.326	0.015	0	0.039	0.033	
7			4	3.311	0.014	0	0.04	0.032	
8			5	3.268	0.014	0	0.04	0.032	
9			6	3.365	0.015	0.005	0.04	0.034	
10			7	3.566	0.016	0.005	0.039	0.039	
11			8	3.482	0.016	0.005	0.039	0.037	
12			9	3.37	0.016	0	0.039	0.036	
13			10	3.427	0.015	0	0.04	0.034	
14			Avg:	3.389	0.015	0.002	0.04	0.034	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.389	0.015	0.002	0.04	0.034	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645893								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.265	0.018	0.007	0.039	0.037	
5			2	3.277	0.016	0.006	0.039	0.034	
6			3	3.241	0.017	0	0.04	0.035	
7			4	3.222	0.015	0.006	0.039	0.031	
8			5	3.259	0.017	0.006	0.04	0.035	
9			6	3.264	0.015	0.006	0.039	0.031	
10			7	3.298	0.017	0.006	0.039	0.037	
11			8	3.197	0.015	0	0.039	0.031	
12			9	3.209	0.015	0.006	0.039	0.031	
13			10	3.25	0.015	0.006	0.039	0.031	
14			Avg:	3.248	0.016	0.005	0.039	0.033	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.248	0.016	0.005	0.039	0.033	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645893								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.374	0.017	0	0.038	0.038	
5			2	3.364	0.016	0.006	0.038	0.036	
6			3	3.336	0.016	0.006	0.039	0.036	
7			4	3.399	0.017	0.006	0.038	0.037	
8			5	3.323	0.018	0.006	0.038	0.04	
9			6	3.371	0.016	0	0.038	0.037	
10			7	3.302	0.016	0.006	0.038	0.035	
11			8	3.42	0.017	0	0.037	0.039	
12			9	3.264	0.016	0	0.038	0.036	
13			10	3.313	0.016	0.005	0.038	0.035	
14			Avg:	3.347	0.017	0.004	0.038	0.037	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.347	0.017	0.004	0.038	0.037	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645893								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.059	0.016	0	0.038	0.035	
5			2	2.97	0.016	0	0.039	0.035	
6			3	3.012	0.016	0.005	0.039	0.033	
7			4	3.077	0.016	0	0.038	0.035	
8			5	3.08	0.016	0	0.039	0.035	
9			6	3.092	0.016	0.005	0.04	0.034	
10			7	3.118	0.017	0	0.038	0.037	
11			8	3.049	0.016	0	0.039	0.034	
12			9	3.04	0.017	0	0.038	0.036	
13			10	3.045	0.016	0	0.039	0.035	
14			Avg:	3.054	0.016	0.001	0.039	0.035	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.054	0.016	0.001	0.039	0.035	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645893 BEFORE JAR-OFF								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.017	0.015	0	0.039	0.03	
5			2	3.049	0.015	0.006	0.039	0.03	
6			3	3.057	0.016	0.005	0.039	0.031	
7			4	3.016	0.017	0.005	0.039	0.033	
8			5	3.02	0.015	0.005	0.039	0.029	
9			6	3.113	0.015	0.006	0.039	0.032	
10			7	3.023	0.015	0	0.038	0.031	
11			8	3.066	0.015	0	0.039	0.031	
12			9	2.978	0.016	0.006	0.039	0.031	
13			10	3.116	0.016	0.005	0.039	0.032	
14			Avg:	3.046	0.016	0.004	0.039	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.046	0.016	0.004	0.039	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645893								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Reimngton	700 SPS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.066	0.021	0.006	0.031	0.068	
5			2	5.085	0.02	0	0.03	0.065	
6			3	5.2	0.018	0.005	0.031	0.059	
7			4	5.044	0.02	0.005	0.031	0.065	
8			5	5.023	0.022	0.005	0.031	0.068	
9			6	5.058	0.019	0.005	0.031	0.062	
10			7	5.045	0.022	0	0.031	0.069	
11			8	5.076	0.018	0	0.031	0.059	
12			9	5.046	0.018	0.005	0.031	0.057	
13			10	5.051	0.021	0	0.031	0.067	
14			Avg:	5.069	0.02	0.003	0.031	0.064	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.069	0.02	0.003	0.031	0.064	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645893								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.918	0.017	0	0.038	0.036	
5			2	3.085	0.018	0	0.038	0.038	
6			3	3.034	0.016	0	0.038	0.035	
7			4	2.979	0.017	0	0.039	0.037	
8			5	3.064	0.018	0	0.038	0.038	
9			6	3.142	0.016	0	0.039	0.035	
10			7	3.061	0.017	0	0.037	0.036	
11			8	3.034	0.015	0	0.038	0.033	
12			9	3.134	0.016	0	0.038	0.036	
13			10	2.98	0.016	0	0.039	0.034	
14			Avg:	3.043	0.017	0	0.038	0.036	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.043	0.017	0	0.038	0.036	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645893								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.049	0.022	0	0.031	0.068	
5			2	5.034	0.019	0	0.031	0.06	
6			3	5.02	0.019	0	0.032	0.059	
7			4	5.059	0.022	0	0.031	0.07	
8			5	5.054	0.019	0.006	0.031	0.058	
9			6	4.994	0.019	0.005	0.032	0.06	
10			7	4.969	0.021	0.006	0.031	0.063	
11			8	5.048	0.02	0.006	0.031	0.063	
12			9	5.026	0.019	0.006	0.031	0.058	
13			10	4.9	0.019	0.006	0.031	0.057	
14			Avg:	5.015	0.02	0.004	0.031	0.062	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.015	0.02	0.004	0.031	0.062	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645893								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.536	0.015	0	0.039	0.027	
5			2	2.58	0.015	0	0.039	0.027	
6			3	2.553	0.015	0	0.039	0.027	
7			4	2.542	0.014	0	0.04	0.026	
8			5	2.521	0.016	0	0.039	0.029	
9			6	2.498	0.014	0	0.039	0.026	
10			7	2.581	0.015	0	0.04	0.027	
11			8	2.6	0.015	0	0.039	0.029	
12			9	2.611	0.015	0	0.04	0.028	
13			10	2.585	0.015	0	0.039	0.028	
14			Avg:	2.561	0.015	0	0.039	0.027	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.561	0.015	0	0.039	0.027	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6445938								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.111	0.015	0	0.036	0.033	
5			2	3	0.016	0.006	0.036	0.033	
6			3	2.988	0.015	0	0.036	0.03	
7			4	3.013	0.017	0.006	0.036	0.034	
8			5	3.041	0.015	0	0.037	0.03	
9			6	3.099	0.016	0	0.036	0.034	
10			7	2.953	0.016	0	0.036	0.033	
11			8	2.952	0.015	0	0.037	0.03	
12			9	2.996	0.015	0	0.036	0.03	
13			10	3.036	0.015	0	0.037	0.031	
14			Avg:	3.019	0.016	0.001	0.036	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.019	0.016	0.001	0.036	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645938								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.141	0.015	0	0.036	0.031	
5			2	3.106	0.016	0	0.035	0.032	
6			3	3.077	0.016	0	0.034	0.033	
7			4	3.106	0.015	0	0.035	0.031	
8			5	3.096	0.016	0	0.034	0.032	
9			6	3.102	0.015	0	0.035	0.031	
10			7	3.088	0.015	0	0.035	0.031	
11			8	3.083	0.015	0	0.035	0.031	
12			9	3.099	0.016	0	0.035	0.032	
13			10	3.126	0.017	0	0.035	0.035	
14			Avg:	3.102	0.016	0	0.035	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.102	0.016	0	0.035	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645938								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.074	0.016	0	0.036	0.032	
5			2	2.966	0.015	0	0.036	0.03	
6			3	3.047	0.016	0.006	0.036	0.033	
7			4	3.074	0.015	0.006	0.035	0.031	
8			5	2.974	0.015	0	0.036	0.03	
9			6	3.116	0.015	0.006	0.035	0.031	
10			7	2.974	0.017	0.006	0.035	0.033	
11			8	2.961	0.015	0	0.035	0.03	
12			9	2.992	0.016	0	0.035	0.031	
13			10	2.977	0.015	0	0.035	0.03	
14			Avg:	3.016	0.016	0.002	0.035	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.016	0.016	0.002	0.035	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645938 BEFORE JAR-OFF								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.999	0.015	0	0.036	0.031	
5			2	3.058	0.014	0	0.037	0.029	
6			3	3.055	0.015	0	0.037	0.031	
7			4	3.084	0.014	0.006	0.037	0.029	
8			5	3.047	0.014	0.006	0.038	0.028	
9			6	3.018	0.014	0	0.038	0.029	
10			7	3.088	0.015	0	0.037	0.031	
11			8	3.082	0.015	0.006	0.037	0.032	
12			9	3.055	0.013	0	0.037	0.027	
13			10	3.087	0.013	0.005	0.037	0.027	
14			Avg:	3.057	0.014	0.002	0.037	0.029	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.057	0.014	0.002	0.037	0.029	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645938								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.387	0.018	0.004	0.037	0.053	
5			2	4.483	0.022	0.005	0.037	0.064	
6			3	4.384	0.02	0	0.036	0.059	
7			4	4.45	0.02	0	0.037	0.06	
8			5	4.423	0.018	0	0.036	0.054	
9			6	4.661	0.019	0	0.037	0.058	
10			7	4.331	0.022	0	0.036	0.063	
11			8	4.548	0.021	0	0.036	0.065	
12			9	4.115	0.02	0.004	0.036	0.055	
13			10	4.366	0.018	0	0.037	0.054	
14			Avg:	4.415	0.02	0.001	0.037	0.059	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.415	0.02	0.001	0.037	0.059	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645938								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.009	0.016	0	0.035	0.031	
5			2	3.029	0.017	0	0.035	0.034	
6			3	3.101	0.016	0	0.035	0.034	
7			4	3.014	0.017	0	0.035	0.034	
8			5	3.056	0.015	0	0.035	0.03	
9			6	2.97	0.015	0	0.035	0.03	
10			7	2.984	0.015	0	0.035	0.029	
11			8	3.059	0.017	0	0.034	0.035	
12			9	2.973	0.017	0	0.035	0.033	
13			10	3.064	0.015	0	0.035	0.031	
14			Avg:	3.026	0.016	0	0.035	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.026	0.016	0	0.035	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645938								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.807	0.019	0.006	0.037	0.049	
5			2	3.768	0.019	0	0.037	0.051	
6			3	3.914	0.019	0	0.037	0.051	
7			4	3.985	0.02	0.005	0.037	0.054	
8			5	3.977	0.02	0	0.037	0.055	
9			6	3.893	0.019	0	0.037	0.051	
10			7	4.001	0.018	0	0.037	0.05	
11			8	4.07	0.019	0	0.037	0.052	
12			9	4.126	0.019	0	0.037	0.052	
13			10	4.013	0.019	0.005	0.038	0.052	
14			Avg:	3.955	0.019	0.002	0.037	0.052	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.955	0.019	0.002	0.037	0.052	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6645938								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.555	0.013	0	0.036	0.023	
5			2	2.569	0.013	0	0.036	0.023	
6			3	2.601	0.014	0	0.037	0.025	
7			4	2.475	0.014	0	0.036	0.025	
8			5	2.539	0.013	0	0.037	0.024	
9			6	2.555	0.013	0	0.036	0.023	
10			7	2.593	0.013	0	0.036	0.023	
11			8	2.566	0.013	0	0.037	0.024	
12			9	2.499	0.014	0	0.036	0.024	
13			10	2.468	0.013	0	0.037	0.023	
14			Avg:	2.542	0.013	0	0.036	0.024	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.542	0.013	0	0.036	0.024	0.00 ms

THIS DRAWING OR INFORMATION IS PROPRIETARY INFORMATION OF THE REMINGTON ARMS COMPANY, INC.

DO NOT SCALE THIS DRAWING: WORK TO FIGURES UNLESS OTHERWISE NOTED.
TOLERANCES ON DECIMAL DIMENSIONS ARE:
1 PLACE (0.1) - TOLERANCE ± 0.015
2 PLACE (0.01) - TOLERANCE ± 0.010
3 PLACE (0.001) - TOLERANCE ± 0.005
& ON FRACTIONAL DIMENSIONS ± 1/64
& ON ANGULAR DIMENSIONS ± 0.5°
FINISHES ARE DESIGNATED BY ROOT MEAN SQUARE (R.M.S.) MICRO-INCH ROUGHNESS VALUES AND ARE THE MAXIMUM ROUGHNESS ACCEPTABLE. UNLESS OTHERWISE SPECIFIED.

FINISH ROUGHNESS TO BE 125 OR BETTER.
DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5-1994.

MATERIAL AND HEAT TREAT

MATERIAL : MPIF F-0000-20 (7.1 G/CC MIN)

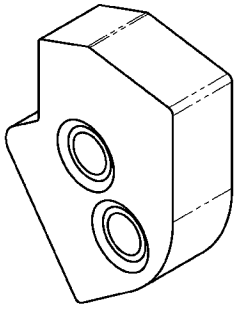
HEAT TREAT : NONE

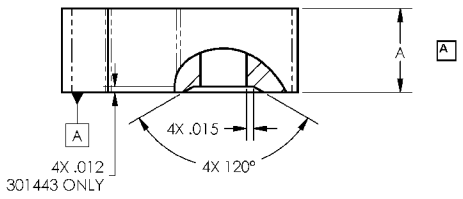
HARDNESS : N/A

FINISH : NONE

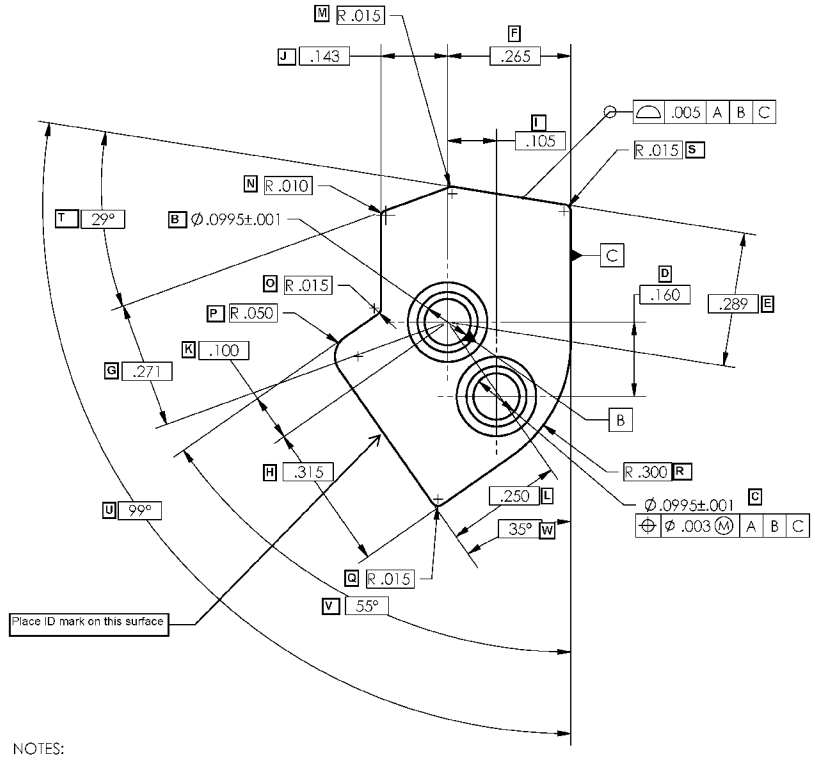
HEAT TREAT AND FINISH TO BE DONE BY REMINGTON

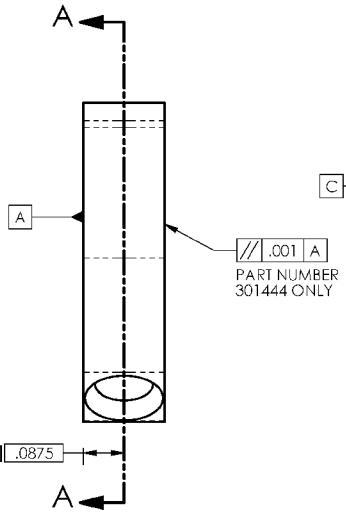
ALTERATIONS					
ALT.	ZONE	WAS	REF.	BY	DATE
A	B7	.38 WAS .375		JWR	04-02-07
B	B6	Ø.168±.007 WAS Ø.175		JWR	04-02-07
C	B7	WAS Ø.006 WITHOUT BONUS		JWR	04-02-07
D	A4	NOT RELEASED FOR PRODUCTION		JWR	4-24-07
E	A7	UPDATED MODEL USAGE (2X)		JWR	4-24-07
F	B7	.342±.010 WAS .38		JWP	5-17-07



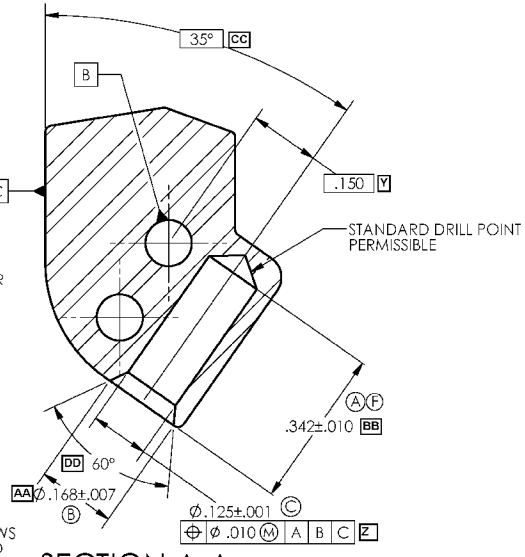


PART NUMBER	DIMENSION A
301443 - BLANK	0.180±.002
301444 - FINISHED PART	0.175±.001





FEATURES SHOWN IN THESE VIEWS TO BE DONE BY REMINGTON TO PART NUMBER 301444 AFTER GRINDING TO THICKNESS



SECTION A-A

NOTES:
1. RESIN IMPREGNATE BLANK.

E XR100	301443	REAR SPACER - BLANK
XR100	301444	REAR SPACER
MODEL	PART NO.	PART USE
DES. BY DATE JWR 12-7-05	DRN. BY DATE JWR 01-05-06	CHK. BY DATE

TITLE: REAR SPACER BLOCK

SHEET SIZE	NUMBER	SCALE	SUPERSEDES	REFERENCE
C	301444	5X		

REMINGTON ARMS CO., INC. Madison, NC 27025

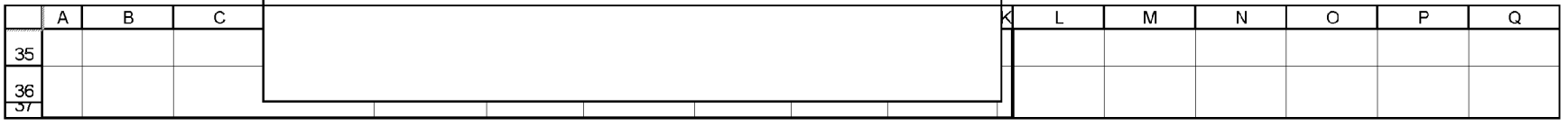
SolidWorks File: 301444 - Rear Spacer Block

D RELEASED FOR PRE-PRODUCTION ONLY

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

Engineer:	Ronkainen	**Project #:** 241460 **TLW #:** 2125
Date Submitted:	10/17/2006	**Requested Completion Date:** 10/31/2006
Completion Date Justification:	Parts are needed for DAT scheduled to start in November and need to be sent to Ilion for subsequent processing after inspection.	
Test Description:	Inspect 25 Rear Spacer Blocks (301444) per highlighted dimensions on the attached print.	
Test Procedure:	Double click inside this field to open MS Word object. Inspect 25 SPL 40X Rear Spacer Blocks (P/N 301444) per the highlighted dimensions on the attached drawing. Place a unique permanent identification mark (e.g. 1, 2, 3, etc.) on each part in the location indicated on the marked up drawing. For the dimensions highlighted in yellow, provide explicit measurements. The dimensions highlighted in purple (the part profile) can either be measured explicitly or checked with a comparator screen to evaluate the profile tolerance on a GO/NO GO basis. Provide the final measurement data in an Excel spreadsheet.	

Provide the final measurement data in an Excel spreadsheet.



	A	B	C	K	L	M	N	O	P	Q
35										
36										
37										

Special Requirements:		
Supplies Availability:	Parts are available now.	
Results Required:	Data Only	
******This section to be completed by Test Lab Manager*****		
Assigned To:	Wade, Steve	**Start Date:** 10/23/2006
Assigned Date:	10/23/2006	**Completion Date:** 11/7/2006
Comments:		

	R	S	T	U	V	W
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						
48						
49						
50						
51					Data Only	
52					Formal Report	
53						
54						
55						
56						
57						
58						
59						
60						
61						

	A
1	
2	
3	
4	
5	301444 - Rear Spacer Block NR markup for inspection.pdf
6	
7	
8	View with Adobe Acrobat to properly show highlighting.

	A	B	C	D	E	F
1	Part Name:	REAR SPACER BLOCK				
2	Drawing Num:	301444		NOTE- Dimension identifiers will be provided on the prints supplied by engineering & the CAD group.		
3	TLW Number:	241460				
4	Revision Level:	F		INSTRUCTIONS:		
5	Vendor:	Lincoln Tool		1. STAMP ALL PARTS WITH AN I.D. NUMBER AND CHANGE I.D. AT TOP OF PAGE CORRESPONDINGLY.		
6	Requisition #:			2. TAG PARTS ONLY IF STAMPING IS NOT POSSIBLE.		
7	Material:	AISI 1008		3. ENTER FEATURE DESCRIPTIONS WHEN POSSIBLE. (OPTIONAL)		
8	Hardness:	NA		4. WHEN COMPLETE, RETURN ALL PARTS TO ENGINEER IN ORIGINAL SHIPPING CARTON (IF POSSIBLE) AND DRAWING WITH IDENTIFIERS.		
9	Metallurgist:	NA				
10	Engineer:	JIM RONKAINEN		INSPECTOR NOTES: Parts are OK to use. Sent to Ilion on 6/5/2007.		
11	Inspected by:	JIM RONKAINEN				
12	Date:	5/31/2007				
13	Reviewed by:	JR				
14	Date:	6/5/2007				
15						
16						
17						
18						
19	**identifier**	**feature description**	**DIM**	**plus**	**minus**	**1**
20	A	THICKNESS	**0.1750**	0.001	0.001	0.1754
21	B	I.D.	**0.0995**	0.001	0.001	**0.0983**
22	B	I.D.	**0.0995**	0.001	0.001	.099-
23	B	I.D.	**0.0995**	0.001	0.001	0.0988
24	C	I.D.	**0.0995**	0.001	0.001	0.0986
25	C	I.D.	**0.0995**	0.001	0.001	.099-
26	C	I.D.	**0.0995**	0.001	0.001	0.0988
27	C	Bonus				0.0003
28	C	Positional	**0.0030**	0.000	0.003	**IN**
29	D	Vert. DISTANCE Hole	**0.160**	0.0015	0.0015	0.1601
30	E	DISTANCE	**0.289**	0.0025	0.0025	0.2892
31	F	DISTANCE	**0.265**	0.0025	0.0025	0.2644
32	G	DISTANCE	**0.271**	0.0025	0.0025	0.2713
33	H	DISTANCE	**0.315**	0.0025	0.0025	0.3154
34	I	Horiz. DISTANCE Hole	**0.105**	0.0015	0.0015	0.1050
35	J	DISTANCE	**0.143**	0.0025	0.0025	0.1439
36	K	DISTANCE	**0.100**	0.0025	0.0025	0.1010
37	L	DISTANCE	**0.250**	0.0025	0.0025	0.2504
38	M	RADIUS	**0.015**	0.0025	0.0025	**0.0227**
39	N	RADIUS	**0.010**	0.0025	0.0025	0.0106
40	O	RADIUS	**0.015**	0.0025	0.0025	**0.0636**
41	P	RADIUS	**0.050**	0.0025	0.0025	0.0519
42	Q	RADIUS	**0.015**	0.0025	0.0025	0.0144
43	R	RADIUS	**0.300**	0.0025	0.0025	0.2992
44	S	RADIUS	**0.015**	0.0025	0.0025	0.0168
45	T	DEGREE	**29.000**	0.500	0.500	29.1423
46	U	DEGREE	**99.000**	0.500	0.500	98.8563
47	V	DEGREE	**55.000**	0.500	0.500	54.7225
48	W	DEGREE	**35.000**	0.500	0.500	35.0816
49	X	DISTANCE	**0.0875**	0.003	0.003	0.0864
50	Y	DISTANCE	**0.1500**	0.0030	0.0030	0.1513
51	Z	I.D.	**0.125**			.125+

	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
19	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**AVG**
20	0.1752	0.1753	0.1753	0.1753	0.1752	0.1753	0.1752	0.1753	0.1752	0.1753	0.1752	0.1751	0.1752	0.1755	0.1757	0.1757	0.1751	0.1752	0.1752	0.1753
21	**0.0985**	**0.0985**	**0.0981**	**0.0981**	**0.0982**	**0.0983**	0.0986	**0.0985**	0.0989	**0.0985**	0.0990	0.0989	0.0985	0.0988	0.0987	0.0985	0.0986	0.0990	0.0985	0.0986
22	.099-	.099-	.099-	.099+	.0985+	.099-	.099-	.099-	.099-	.099-	.099+	.0995-	.099-	.099-	.099+	.099-	.099-	.099-	.099-	
23	0.0988	0.0988	0.0988	0.0992	0.0987	0.0988	0.0988	0.0988	0.0988	0.0988	0.0992	0.0993	0.0988	0.0988	0.0992	0.0988	0.0988	0.0988	0.0988	0.0989
24	0.0986	**0.0984**	**0.0980**	**0.0978**	0.0986	**0.0983**	0.0990	**0.0980**	0.0991	0.0990	0.0991	0.0990	**0.0985**	0.0991	0.0990	0.0986	0.0988	0.0992	**0.0985**	0.0987
25	.099-	.099-	.099-	.099+	.0985+	.099-	.099-	.099-	.099-	.099-	.099+	.0995-	.099-	.099-	.099+	.099-	.099-	.099-	.099-	
26	0.0988	0.0988	0.0988	0.0992	0.0987	0.0988	0.0988	0.0988	0.0988	0.0988	0.0992	0.0993	0.0988	0.0988	0.0992	0.0988	0.0988	0.0988	0.0988	0.0989
27	0.0003	0.0003	0.0003	0.0007	0.0002	0.0003	0.0003	0.0003	0.0003	0.0003	0.0007	0.0008	0.0003	0.0003	0.0007	0.0003	0.0003	0.0003	0.0003	0.0004
28	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	
29	0.1601	0.1597	0.1599	0.1600	0.1602	0.1599	0.1598	0.1601	0.1598	0.1600	0.1600	0.1599	0.1603	0.1600	0.1597	0.1598	0.1600	0.1599	0.1600	0.1600
30	0.2895	0.2898	0.2893	0.2889	0.2891	0.2894	0.2894	0.2893	0.2895	0.2890	0.2892	0.2889	0.2891	0.2876	0.2892	0.2882	0.2893	0.2889	0.2889	0.2891
31	0.2650	0.2650	0.2650	0.2645	0.2646	0.2649	0.2652	0.2651	0.2647	0.2647	0.2645	0.2645	0.2650	0.2648	0.2647	0.2647	0.2648	0.2647	0.2646	0.2648
32	0.2713	0.2720	0.2721	0.2712	0.2710	0.2717	0.2715	0.2715	0.2716	0.2713	0.2712	0.2712	0.2710	0.2700	0.2712	0.2706	0.2715	0.2710	0.2714	0.2713
33	0.3154	0.3151	0.3153	0.3155	0.3155	0.3151	0.3156	0.3159	0.3153	0.3154	0.3153	0.3150	0.3149	0.3164	0.3156	0.3160	0.3151	0.3153	0.3154	0.3154
34	0.1052	0.1050	0.1050	0.1049	0.1051	0.1052	0.1056	0.1054	0.1053	0.1050	0.1048	0.1054	0.1048	0.1051	0.1056	0.1053	0.1051	0.1051	0.1051	0.1052
35	0.1437	0.1434	0.1433	0.1439	0.1435	0.1440	0.1432	0.1436	0.1433	0.1441	0.1436	0.1435	0.1432	0.1433	0.1430	0.1431	0.1434	0.1431	0.1435	0.1435
36	0.0991	0.1022	0.1023	0.1010	0.1004	0.1002	0.1013	0.1015	0.1010	0.1010	0.1003	0.1009	0.1005	0.0994	0.1003	0.0986	0.1008	0.1016	0.1010	0.1007
37	0.2499	0.2501	0.2500	0.2518	0.2511	0.2503	0.2499	0.2501	0.2498	0.2500	0.2502	0.2502	0.2500	0.2509	0.2505	0.2503	0.2501	0.2500	0.2497	0.2503
38	**0.0218**	**0.0189**	**0.0244**	**0.0288**	**0.0300**	**0.0300**	**0.0265**	**0.0254**	**0.0272**	**0.0298**	**0.0265**	**0.0308**	**0.0274**	**0.0344**	**0.0375**	**0.0270**	**0.0339**	**0.0313**	**0.0566**	0.0281
39	**0.0130**	**0.0183**	0.0092	**0.0074**	0.0094	**0.0133**	**0.0129**	0.0117	0.0095	0.0076	0.0084	0.0100	0.0089	0.0077	0.0090	0.0098	**0.0136**	0.0086	0.0095	0.0105
40	**0.0279**	**0.0290**	**0.0295**	**0.0315**	**0.0367**	**0.0320**	**0.0312**	**0.0276**	**0.0332**	**0.0246**	**0.0330**	**0.0321**	**0.0299**	**0.0329**	**0.0318**	**0.0399**	**0.0256**	**0.0306**	**0.0284**	0.0328
41	0.0479	0.0481	0.0483	**0.0526**	0.0515	0.0518	0.0489	0.0499	0.0481	0.0486	0.0494	0.0520	0.0492	0.0510	0.0506	**0.0534**	0.0488	0.0490	0.0519	0.0500
42	0.0148	0.0151	0.0137	0.0150	0.0143	0.0140	**0.0110**	0.0141	**0.0124**	0.0126	0.0136	0.0143	0.0126	0.0132	0.0150	**0.0122**	**0.0123**	0.0133	**0.0116**	0.0136
43	0.2993	**0.2954**	0.2990	**0.2970**	0.2977	0.3002	0.2989	0.3008	0.2999	0.2989	**0.2972**	0.2982	**0.2957**	0.3018	**0.2964**	0.2992	**0.2959**	0.2982	0.2986	0.2984
44	0.0141	0.0144	0.0158	**0.0110**	0.0136	0.0161	0.0137	0.0157	0.0150	0.0126	0.0152	0.0131	**0.0112**	**0.0122**	0.0145	**0.0118**	0.0129	0.0126	0.0129	0.0138
45	28.8901	29.0563	28.6495	29.0745	29.2488	28.9240	28.9316	28.8318	29.2690	29.0811	28.9781	29.0496	29.1687	29.1338	29.0692	28.8798	28.7564	28.8852	28.9634	29.0010
46	98.9821	98.9421	98.9488	98.8789	98.9454	98.9909	99.0207	98.9614	98.9669	98.9426	98.9661	98.9523	99.1574	99.0300	98.8643	98.9448	98.8894	98.8933	98.8963	98.9544
47	55.4573	**54.3799**	**54.4692**	54.8592	54.9621	55.2813	54.7680	54.7108	54.7809	54.9023	55.0719	54.7920	55.0510	54.9485	54.7854	55.3323	54.8270	**54.4827**	54.7872	54.8729
48	35.0315	35.0576	35.0352	35.1073	35.1295	34.9982	35.0499	35.0309	35.1042	35.0816	35.0585	35.0724	34.9619	35.0181	35.2200	35.0484	35.0217	35.0218	35.1246	35.0595
49	0.0860	0.0874	0.0849	0.0886	0.0883	0.0863	0.0863	0.0865	0.0865	0.0874	0.0869	0.0873	0.0866	0.0867	0.0869	0.0868	0.0864	0.0867	0.0864	0.0868
50	0.1507	0.1477	0.1513	0.1489	0.1480	0.1519	0.1502	0.1517	0.1505	0.1520	0.1527	0.1513	0.1514	0.1542	0.1470	0.1549	0.1548	0.1538	0.1521	0.1513
51	.125+	.124+	.125+	.125+	.125+	.125+	.125+	.125+	.125+	.125+	.125+	.125+	.125+	.125+	.125+	.125+	.125+	.125+	.125+	

	AA	AB
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19	**STDEV**	**Method**
20	0.0002	MIC
21	0.0003	MV
22		PIN
23	0.0002	Calc
24	0.0004	MV
25		PIN
26	0.0002	Calc
27	0.0002	Calc
28		
29	0.0002	MV
30	0.0005	MV
31	0.0002	MV
32	0.0005	MV
33	0.0004	MV
34	0.0002	MV
35	0.0003	MV
36	0.0010	MV
37	0.0005	MV
38	0.0045	MV
39	0.0027	MV
40	0.0083	MV
41	0.0017	MV
42	0.0011	MV
43	0.0018	MV
44	0.0017	MV
45	0.1641	MV
46	0.0690	MV
47	0.2837	MV
48	0.0559	MV
49	0.0008	MV
50	0.0023	MV
51		PIN

	A	B	C	D	E	F
52	Z	Diameter	**0.125**	0.001	0.001	0.1252
53	Z	Bonus				0.0012
54	Z	Postion	**0.010**	0.000	0.010	**IN**
55	AA	Diameter	**0.167**	0.007	0.007	0.1628
56	BB	DEPTH	**0.342**	0.010	0.010	0.3430
57	CC	DEGREE	**35.000**	0.500	0.500	35.0999
58	DD	DEGREE	**60.000**			60.4531
59		Csink Depth	**0.037**			0.0298
60	EE	OVERLAY@20X (profile)				OK
61	Z	Diameter	**0.125**	0.001	0.001	0.1281
62	AA to Z	Eccentricity				0.0015

	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
52	0.1252	0.1242	0.1252	0.1252	0.1252	0.1252	0.1252	0.1252	0.1252	0.1252	0.1252	0.1252	0.1252	0.1252	0.1252	0.1252	0.1252	0.1252	0.1252	0.1251
53	0.0012	0.0002	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0011
54	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	**IN**	
55	0.1612	0.1627	0.1680	0.1681	0.1628	0.1678	0.1684	0.1688	0.1683	0.1689	0.1673	0.1677	0.1685	0.1697	0.1692	0.1719	0.1698	0.1687	0.1670	0.1674
56	0.3450	0.3420	0.3420	0.3430	0.3430	0.3430	0.3440	0.3440	0.3430	0.3440	0.3410	0.3390	0.3430	0.3420	0.3400	0.3410	0.3410	0.3350	0.3430	0.3420
57	35.2322	35.3005	35.1753	35.1682	35.0035	35.1806	35.3472	35.4848	35.0865	35.1134	35.2828	35.1492	35.0735	34.8956	34.9575	35.0836	35.184	35.0068	35.2352	35.1487
58	61.7914	67.1668	58.7653	72.0423	65.6028	61.1484	55.7141	56.9867	57.3978	56.9341	57.9506	58.8873	56.1514	55.2332	65.6771	54.5576	59.6568	56.2799	58.9485	59.9156
59	0.0291	0.0267	0.0361	0.0273	0.0289	0.0346	0.0396	0.0384	0.0372	0.0383	0.0359	0.0358	0.0368	0.0350	0.0339	0.0348	0.0365	0.0379	0.0350	0.0343
60	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	
61	0.1264	0.1273	0.1274	0.1284	0.1256	0.1268	0.1266	0.1271	0.1275	0.1274	0.1276	0.1273	0.1292	0.1331	0.1254	0.1361	0.1279	0.1281	0.1275	0.1281
62	0.0011	0.0003	0.0024	0.0009	0.0005	0.0042	0.0028	0.0019	0.0034	0.0046	0.0023	0.0033	0.0026	0.0052	0.0027	0.0007	0.0073	0.0017	0.0020	0.0027

	AA	AB
52	0.0002	Calc
53	0.0002	Calc
54		
55	0.0029	MV
56	0.0023	HG
57	0.1420	MV
58	4.6921	Calc
59	0.0040	MV
60		OVERLAY
61	0.0025	MV
62	0.0018	MV

Cell: A30
Comment: Administrator:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A31
Comment: Administrator:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A32
Comment: Administrator:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A33
Comment: Administrator:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A35
Comment: Administrator:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A36
Comment: Administrator:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A37
Comment: Administrator:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A38
Comment: Administrator:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A39
Comment: Administrator:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A40
Comment: Administrator:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A41
Comment: Administrator:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A42
Comment: Administrator:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A43
Comment: Administrator:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A44

Comment: Administrator:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A45
Comment: Administrator:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A46
Comment: Administrator:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A47
Comment: Administrator:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

Cell: A48
Comment: Administrator:
For information only - profile tolerance on part periphery governs dimensional acceptability of parts

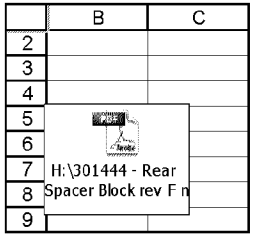
Cell: B55
Comment: Jim Ronkainen:
Countersinks in most parts originally were too small C'sinks were re-machined to proper size.

Cell: B56
Comment: Jim Ronkainen:
Holes in most parts originally were too shallow. Holes were re-drilled to proper depth.

Cell: B58
Comment: Jim Ronkainen:
The countersink angle is calculated from the countersink diameter, hole diameter and the difference in height between the two diameters. Actual C'sink tool was checked on the comparator to ensure angle was 60 degrees.

Cell: B61
Comment: Jim Ronkainen:
This diameter was difficult to measure accurately on the MicroVu due to the variability in the countersink. The vision tools create a "best-fit" circle for the data points it "sees", which typically includes extraneous data points that affect the calculated size. Use gage pin data for hole size.

Cell: B62
Comment: Jim Ronkainen:
Not specified on drawing.


B
C
2
3
4
5
6
7
8
9
H:\301444 - Rear
Spacer Block rev F.n

THIS DRAWING OR INFORMATION IS PROPRIETARY INFORMATION OF THE REMINGTON ARMS COMPANY, INC.

DO NOT SCALE THIS DRAWING: WORK TO FIGURES UNLESS OTHERWISE NOTED.
TOLERANCES ON DECIMAL DIMENSIONS ARE:
1 PLACE (0.1) - TOLERANCE ± 0.015
2 PLACE (0.01) - TOLERANCE ± 0.010
3 PLACE (0.001) - TOLERANCE ± 0.005
& ON FRACTIONAL DIMENSIONS ± 1/64
& ON ANGULAR DIMENSIONS ± 0.5°
FINISHES ARE DESIGNATED BY ROOT MEAN SQUARE (R.M.S.) MICRO-INCH ROUGHNESS VALUES AND ARE THE MAXIMUM ROUGHNESS ACCEPTABLE. UNLESS OTHERWISE SPECIFIED.

FINISH ROUGHNESS TO BE 125 OR BETTER.
DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5-1994.

MATERIAL AND HEAT TREAT

MATERIAL : MPIF F-0000-20 (7.1 G/CC MIN)

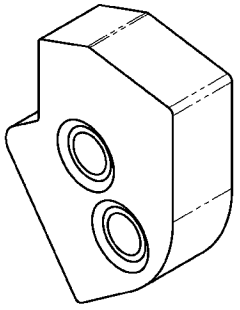
HEAT TREAT : NONE

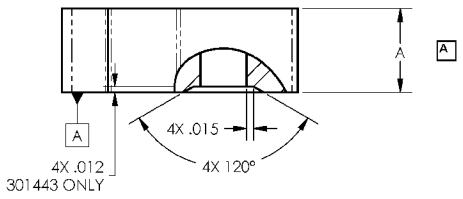
HARDNESS : N/A

FINISH : NONE

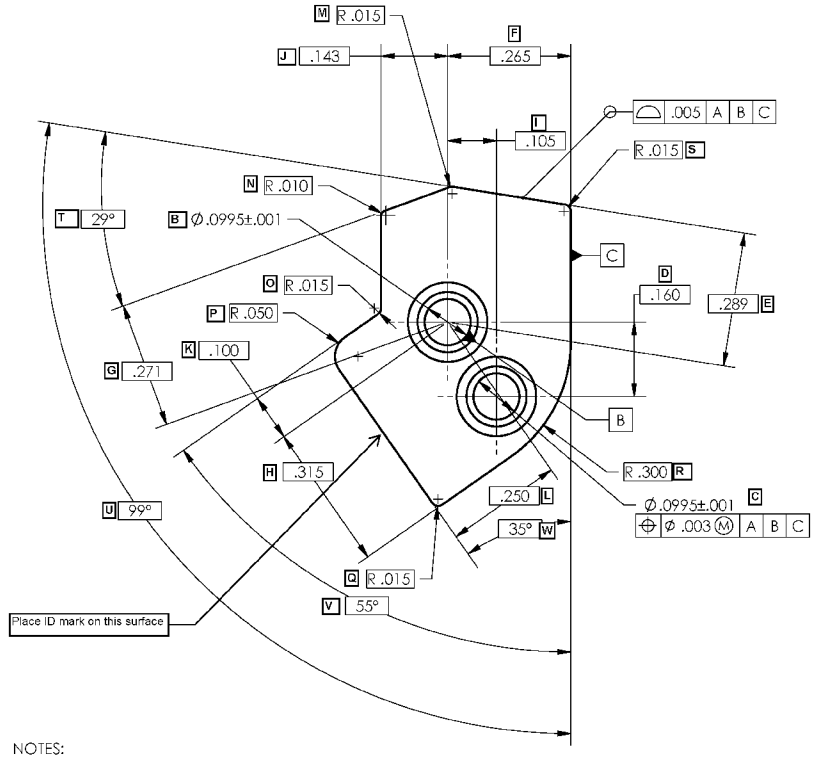
HEAT TREAT AND FINISH TO BE DONE BY REMINGTON

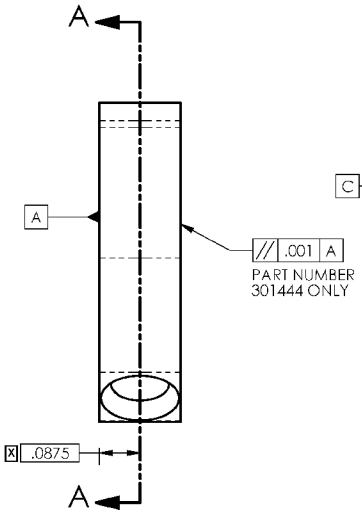
ALTERATIONS					
ALT.	ZONE	WAS	REF.	BY	DATE
A	B7	.38 WAS .375		JWR	04-02-07
B	B6	Ø.168±.007 WAS Ø.175		JWR	04-02-07
C	B7	WAS Ø.006 WITHOUT BONUS		JWR	04-02-07
D	A4	NOT RELEASED FOR PRODUCTION		JWR	4-24-07
E	A7	UPDATED MODEL USAGE (2X)		JWR	4-24-07
F	B7	.342±.010 WAS .38		JWP	5-17-07



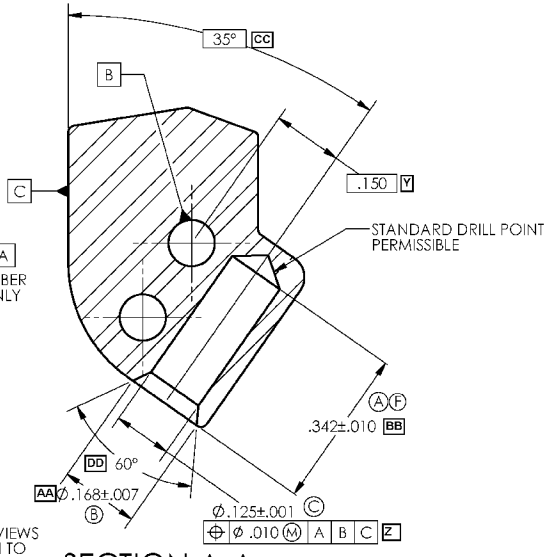


PART NUMBER	DIMENSION A
301443 - BLANK	0.180±.002
301444 - FINISHED PART	0.175±.001





FEATURES SHOWN IN THESE VIEWS TO BE DONE BY REMINGTON TO PART NUMBER 301444 AFTER GRINDING TO THICKNESS



SECTION A-A

NOTES:
1. RESIN IMPREGNATE BLANK.

XR100	301443	REAR SPACER - BLANK
XR100	301444	REAR SPACER
MODEL	PART NO.	PART USE

DES. BY DATE	DRN. BY DATE	CHK. BY DATE
JWR 12-7-05	JWR 01-05-06	

TITLE: REAR SPACER BLOCK

SHEET SIZE	NUMBER	SCALE	SUPERSEDES	REFERENCE
C	301444	5X		

REMINGTON ARMS CO., INC.
Madison, NC 27025

SolidWorks File: 301444 - Rear Spacer Block

Ⓓ RELEASED FOR PRE-PRODUCTION ONLY

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

Double click inside this field to open MS Word object.

Inspect 25 SPL 40X Rear Spacer Blocks (P/N 301444) per the highlighted dimensions on the attached drawing. Place a unique permanent identification mark (e.g. 1, 2, 3, etc.) on each part in the location indicated on the marked up drawing. For the dimensions highlighted in yellow, provide explicit measurements. The dimensions highlighted in purple (the part profile) can either be measured explicitly or checked with a comparator screen to evaluate the profile tolerance on a GO/NO GO basis.

Provide the final measurement data in an Excel spreadsheet.

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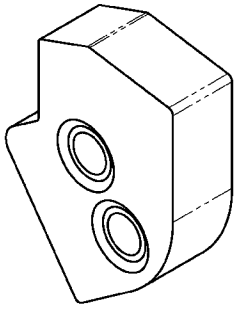
2 PLACE (0.01) - TOLERANCE ± 0.010
3 PLACE (0.001) - TOLERANCE ± 0.005
& ON FRACTIONAL DIMENSIONS ± 1/64
& ON ANGULAR DIMENSIONS ± 0.5°
FINISHES ARE DESIGNATED BY ROOT MEAN SQUARE (R.M.S.) MICRO-INCH ROUGHNESS VALUES AND ARE THE MAXIMUM ROUGHNESS ACCEPTABLE. UNLESS OTHERWISE SPECIFIED.

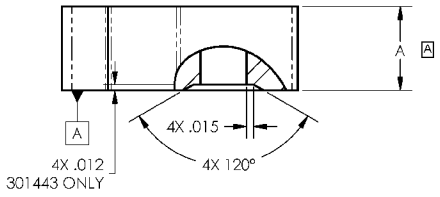
FINISH ROUGHNESS TO BE 125 OR BETTER.
DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5-1994.

MATERIAL AND HEAT TREAT

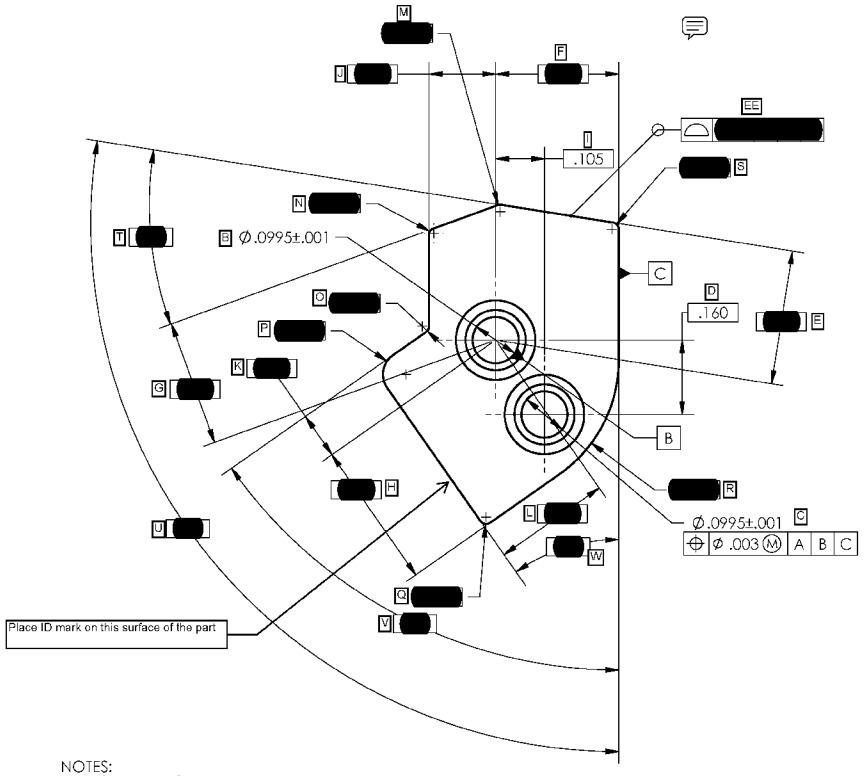
MATERIAL : MPIF F-0000-20 (7.1 G/CC MIN)
HEAT TREAT : NONE
HARDNESS : N/A
FINISH : NONE
HEAT TREAT AND FINISH TO BE DONE BY REMINGTON

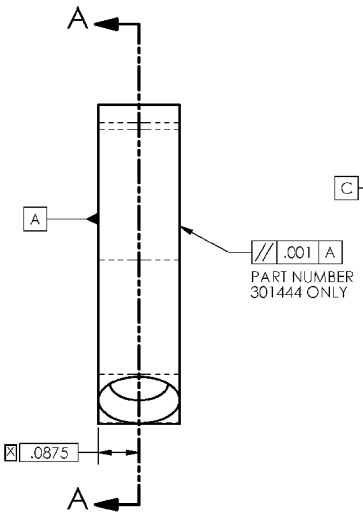
ALTERATIONS					
ALT.	ZONE	WAS	REF.	BY	DATE



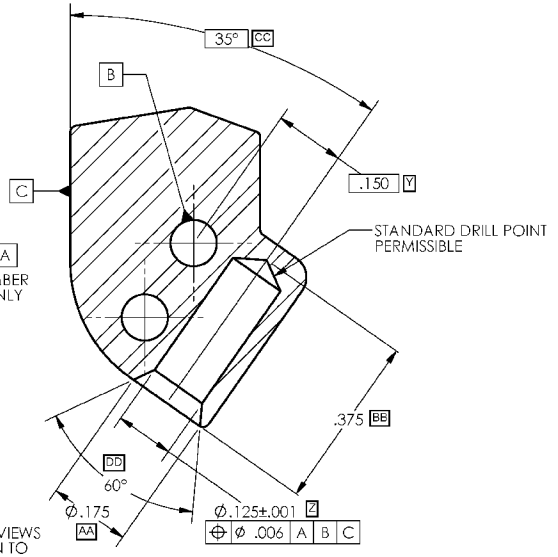


PART NUMBER	DIMENSION A
301443 - BLANK	0.180±.002
301444 - FINISHED PART	0.175±.001





FEATURES SHOWN IN THESE VIEWS TO BE DONE BY REMINGTON TO PART NUMBER 301444 AFTER GRINDING TO THICKNESS



SECTION A-A

NOTES:
1. RESIN IMPREGNATE BLANK.

	301443	REAR SPACER - BLANK
	301444	REAR SPACER
MODEL	PART NO.	PART USE
DES. BY DATE JWR 12-7-05	DRN. BY DATE JWR 01-05-06	CHK. BY DATE

TITLE: REAR SPACER BLOCK

SHEET SIZE	NUMBER	SCALE	SUPERSEDES	REFERENCE
C	301444	5X		

REMINGTON ARMS CO., INC.
Madison, NC 27025

SolidWorks File: 301444 - Rear Spacer Block

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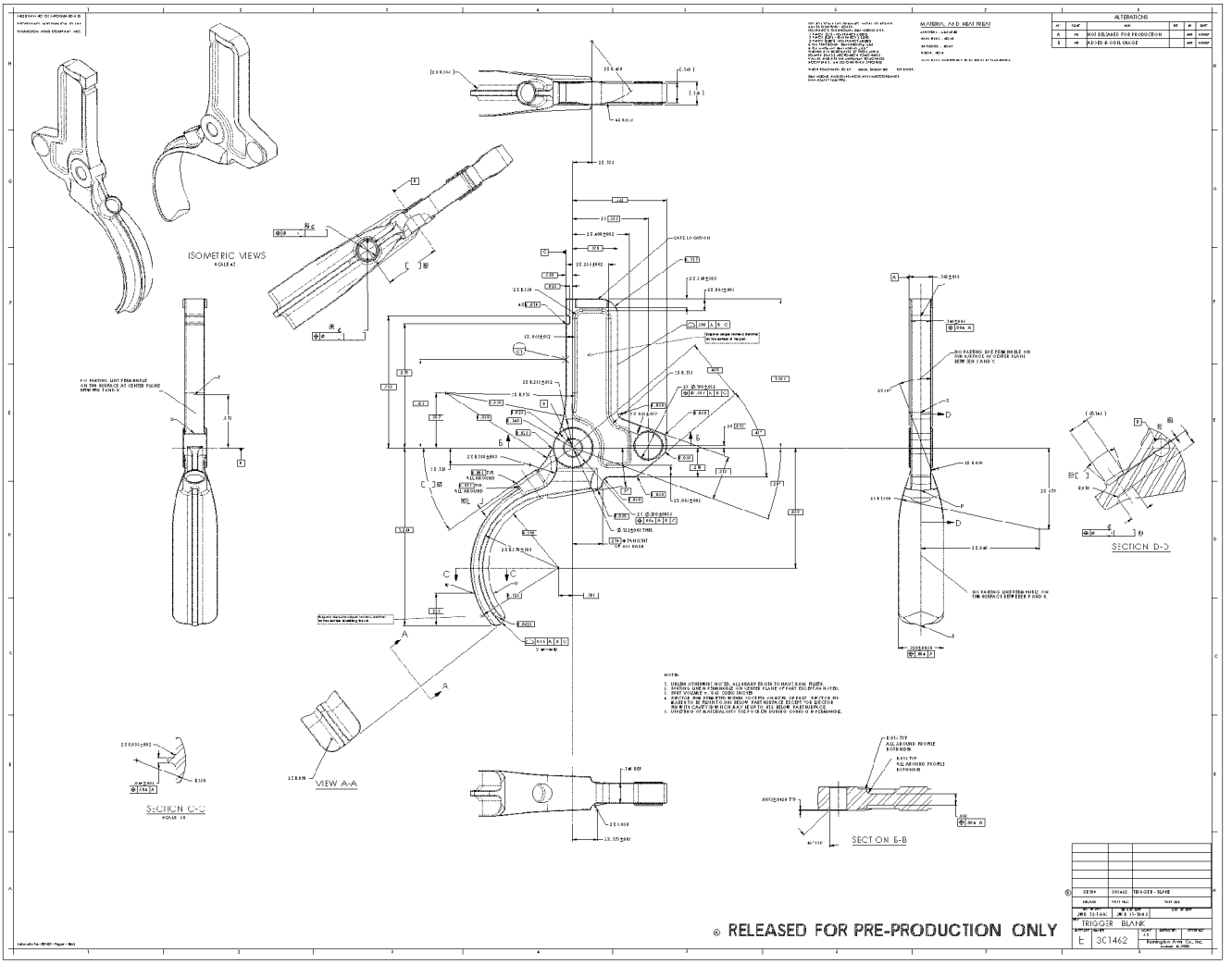
KINZER V. REMINGTON

R 2194072


ISOMETRIC VIEWS
SECTION D-D
SECTION C-C
VIEW A-A
SECT ON B-B
® RELEASED FOR PRE-PRODUCTION ONLY
TRIGGER BLANK
3C1462

	A	B	C
1	Part Name:	TRIGGER BLANK	
2	Drawing Num:	301462	
3	TLW Number:	241460	
4	Revision Level:		
5	Vendor:	GENESIS PLASTIC SOLUTIONS	
6	Requisition #:		
7	Material:		
8	Hardness:		
9	Metallurgist:		
10	Engineer:	JIM RONKAINEN	
11	Inspected by:	RONKAINEN	
12	Date:	6/6/2007	
13	Reviewed by:	JR	
14	Date:	6/7/2007	
15			
16			
17			
18			
19	**identifier**	**feature description**	**DIM**
20	A	Spring Boss OD	**0.1680**
21	B	DISTANCE to Screw Hole Axis	**0.3900**
22	C	ANGLE	**35.000**
23	D	DISTANCE	**0.025**
24	B	DISTANCE to Screw Hole Axis recheck	**0.3900**
25	E	Diameter at top of spring seat	**0.1450**
26	E	Bonus Positional Tolerance	
27	B	Positional Tol to Screw Hole Axis	**0.0030**
28	F	DISTANCE	**0.005**
29	G	DISTANCE	**0.105**
30	H	ID	**0.136**
31	H	ID	**0.136**
32	I	ANGLE	**30.000**
33			
34			
35			
36			
37			
38			
39			
40			

	D	E	F	G
1				
2	NOTE- Dimension identifiers will be provided on the prints supplied by engineering & the CAD group.			
3				
4	INSTRUCTIONS:			
5	1. STAMP ALL PARTS WITH AN I.D, NUMBER AND CHANGE I.D. AT TOP OF PAGE CORRESPONDINGLY.			
6	2. TAG PARTS ONLY IF STAMPING IS NOT POSSIBLE.			
7	3. ENTER FEATURE DESCRIPTIONS WHEN POSSIBLE. (OPTIONAL)			
8	4. WHEN COMPLETE, RETURN ALL PARTS TO ENGINEER IN ORIGINAL SHIPPING CARTON (IF POSSIBLE) AND DRAWING WITH IDENTIFIERS.			
9				
10	INSPECTOR NOTES: Measurement of spring seat angle (feature I) can't be done directly and is difficult to calculate accurately when the accuracy associated with the measurements is considered. The angle is no			
11	all parts - parts are OK to use as is.			
12				
13				
14				
15				
16				
17				
18				
19	**plus**	**minus**	**1**	**2**
20	0.003	0.003	0.1696	0.1692
21	0.003	0.003	0.3948	0.3920
22	2.7000	2.7000	34.8241	35.3032
23	0.0040	0.0040	0.0263	0.0261
24			0.3924	0.3909
25	0.0050	0.0050	0.1404	0.1410
26			0.0004	0.0010
27	0.0000	0.0030	IN	IN
28	0.005	0.005	0.006	0.005
29	0.005	0.005	0.106	0.110
30	0.0030	0.0030	.135+	.135+
31	0.0030	0.0030	0.1352	0.1352
32	2.5000	2.5000	CNM	CNM
33				
34				
35				
36				
37				
38				
39				
40				

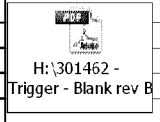
	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1																
2																
3																
4																
5																
6																
7																
8																
9																
10	critical to function and is probably in specifcation on															
11																
12																
13																
14																
15																
16																
17																
18																
19	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**
20	0.1692	0.1696	0.1705	0.1698	0.1694	0.1698	0.1692	0.1691	0.1693	0.1691	0.1685	0.1694	0.1691	0.1689	0.1696	0.1704
21	0.3905	0.3916	0.3931	0.3904	0.3904	0.3927	0.3913	0.3917	0.3909	0.3912	0.3935	0.3924	0.3906	0.3916	0.3931	0.3936
22	35.3221	34.8338	35.2150	34.9622	34.9645	34.5488	35.0414	35.0916	35.3388	35.0430	35.1963	34.8982	34.7281	34.9422	35.2558	34.8009
23	0.0261	0.0260	0.0253	0.0259	0.0268	0.0229	0.0273	0.0269	0.0269	0.0262	0.0275	0.0255	0.0263	0.0245	0.0272	0.0262
24	0.3925	0.3910	0.3915	0.3904	0.3893	0.3948	0.3909	0.3907	0.3905	0.3911	0.3913	0.3941	0.3908	0.3911	0.3941	0.3941
25	0.1415	0.1413	0.1414	0.1410	0.1409	0.1412	0.1410	0.1416	0.1409	0.1412	0.1409	0.1412	0.1407	0.1423	0.1408	0.1413
26	0.0015	0.0013	0.0014	0.0010	0.0009	0.0012	0.0010	0.0016	0.0009	0.0012	0.0009	0.0012	0.0007	0.0023	0.0008	0.0013
27	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
28	0.005	0.004	0.004	0.003	0.005	0.006	0.005	0.005	0.005	0.006	0.006	0.006	0.005	0.006	0.005	0.005
29	0.105	0.107	0.108	0.106	0.106	0.110	0.106	0.108	0.109	0.109	**0.111**	0.109	0.108	0.109	0.109	0.108
30	.134+	.134+	.134+	.135+	.135+	.135+	.135+	.135+	.135+	.135+	.135+	.135+	.135+	.135+	.135+	.135+
31	0.1342	0.1342	0.1342	0.1352	0.1352	0.1352	0.1352	0.1352	0.1352	0.1352	0.1352	0.1352	0.1352	0.1352	0.1352	0.1352
32	CNM	CNM	CNM	CNM	CNM	CNM	CNM	CNM	CNM	CNM	CNM	CNM	CNM	CNM	CNM	CNM
33																
34																
35																
36																
37																
38																
39																
40																

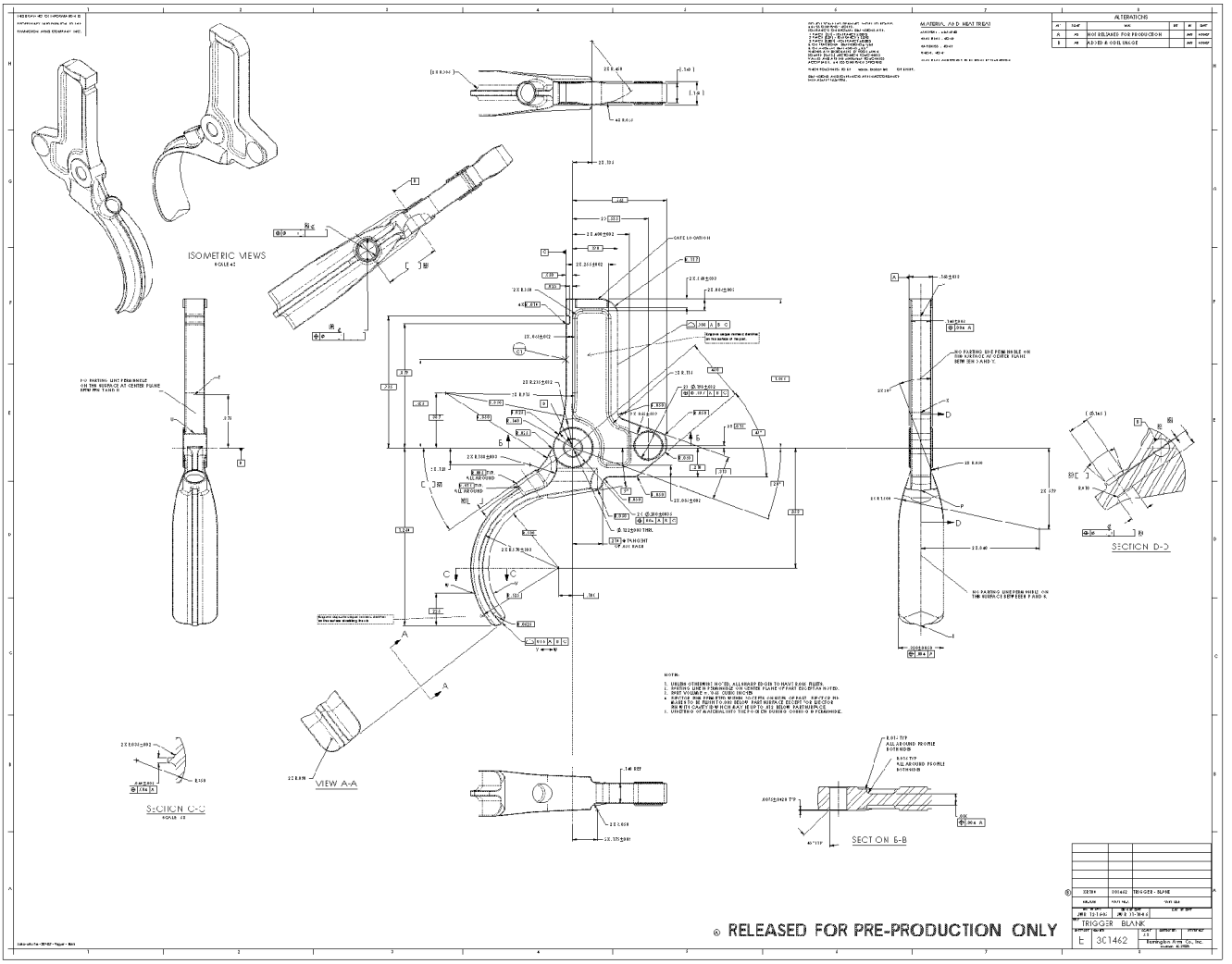
	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19	**19**	**20**	**AVG**	**STDEV**	**Method**					
20	0.1696	0.1696	0.1694	0.0005	MIC					
21	0.3917	0.3905	0.3919	0.0013	MV					
22	35.0386	34.8701	35.0109	0.2153	MV					
23	0.0273	0.0266	0.0262	0.0011	MV					
24	0.3919	0.3927	0.3918	0.0015	MV					
25	0.1404	0.1409	0.1411	0.0004	MV					
26	0.0004	0.0009	0.0011	0.0004	MV					
27	IN	IN								
28	0.005	0.004	0.005	0.0008	Dial & Fixt					
29	0.107	0.104	0.108	0.0018	Dial & Fixt					
30	.135+	.135+								
31	0.1352	0.1352	0.1351	0.0004	PIN					
32	CNM	CNM	#DIV/0!	#DIV/0!	Calculated					
33										
34		0.1686								
35										
36		0.0025								
37		0.3931								
38		0.0004								
39		0.3923								
40		0.0014								

Cell: R20
Comment: Jim Ronkainen:
weld grape made dimension 0.1753 on first measurement

Cell: R21
Comment: Jim Ronkainen:
dimension affected by weld grape noted above - part is OK on re-measure

Cell: R29
Comment: Jim Ronkainen:
Part is OK to use as-is - dimensional discrepancy will only affect the maximum achieveable trigger pull force. Any unusual behavior of the trigger assembly will be noted.

	A
1	
2	
3	
4	H:\301462 -
5	Trigger - Blank rev B
6	
7	
8	View with Adobe Acrobat to properly show highlighting.


ISOMETRIC VIEWS
SECTION D-D
SECTION C-C
VIEW A-A
SECT ON B-B
® RELEASED FOR PRE-PRODUCTION ONLY
TRIGGER BLANK
3C1462

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2			**Nominal**	**+**	**-**	**1**	**2**	**4**	**5**	**6**	**7**	**8**
3	A	Pivot Hole Diameter	0.1260	0.0005	0.0005	.1255+	.1255+	.1255+	.1255+	.1255+	.1255+	.1255+
4	A	Pivot Hole Diameter	0.1260	0.0005	0.0005	0.1257	0.1257	0.1257	0.1257	0.1257	0.1257	0.1257
5	A	Pivot Hole Diameter	0.1260	0.0005	0.0005	0.1256	0.1256	0.1258	0.1255	0.1256	0.1256	0.1255
6	B	Engagement Distance	1.0450	0.0010	0.0010	1.0457	1.0458	1.0460	1.0459	1.0455	1.0453	1.0452
7	C	Engagement Angle	91.00	1.16	1.16	90.75	90.70	90.60	90.74	90.68	90.66	90.69
8	D	Release Distance	0.05	0.005	0.005	0.0500	0.0463	0.0483	0.0459	0.0473	0.0471	0.0479
9	E	Release Angle	5.00	1.05	1.05	4.87	4.68	4.69	4.69	4.68	4.71	4.73
10	√	Angle Between Ground Trigger Surfaces	86.00	0.20	0.20	85.87	86.02	85.91	86.05	86.00	85.95	85.96
11	F	Surface Finish	16.0	0.0	16.0	2.8	2.9	3.4	3.0	3.1	4.4	3.6

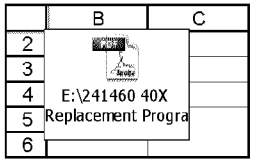
	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1															
2	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**Avg**	**SD**	**MAX**
3	.1260+	.1255+	.1255+	.1255+	.1255+	.1255+	.1260+	.1255+	.1255+	.1255-	.1255+	.1255+			
4	0.1262	0.1257	0.1257	0.1257	0.1257	0.1257	0.1262	0.1257	0.1257	**0.1253**	0.1257	0.1257	0.1257	0.0002	0.1262
5	**0.1270**	0.1258	0.1258	0.1257	0.1258	0.1257	**0.1268**	0.1259	0.1257	0.1256	0.1258	0.1258	0.1258	0.0004	0.1270
6	1.0453	1.0459	1.0453	1.0454	1.0454	1.0457	1.0460	1.0455	1.0459	1.0456	1.0457	1.0454	1.0456	0.0003	1.0460
7	90.67	90.80	90.74	90.64	90.62	90.69	91.13	90.60	90.74	90.71	90.62	90.72	90.71	0.11	91.13
8	0.0463	0.0477	0.0451	0.0480	0.0488	0.0454	0.0473	0.0503	0.0460	0.0501	0.0469	0.0466	0.0474	0.0015	0.0503
9	4.69	4.75	4.59	4.71	4.67	4.61	5.14	4.79	4.65	4.73	4.61	4.73	4.72	0.12	5.14
10	85.98	86.04	86.16	85.94	85.94	86.08	85.99	85.81	86.09	85.98	86.00	85.98	85.99	0.08	86.16
11	3.1	2.8	4.0	3.9	2.8	4.2	3.2	2.5	2.7	2.0	3.6	2.3	3.17	0.65	4.4

	AB	AC	AD
1			
2	**MIN**	**Range**	
3			Pin
4	0.1253	0.0009	Pin
5	0.1255	0.0015	MV
6	1.0452	0.0008	MV
7	90.60	0.52	MV
8	0.0451	0.0051	MV
9	4.59	0.55	MV
10	85.81	0.35	Calculated
11	2.0	2.4	Surfometer

Cell: V4
Comment: Jim Ronkainen:
Trigger will take a .1255- pin but not a .1255+. MicroVu measurement indicates feature is in specification, but between the pin sizes. Part is OK to use.

Cell: M5
Comment: Jim Ronkainen:
Trigger checks in specification with a gage pin - part is OK to use.

Cell: S5
Comment: Jim Ronkainen:
Trigger checks in specification with a gage pin - part is OK to use.


B
C
2
3
4
5
6
E:\241460 40X
Replacement Progra

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REMINGTON ARMS COMPANY, INC.

DO NOT SCALE THIS DRAWING: WORK TO FIGURES UNLESS OTHERWISE NOTED.
TOLERANCES ON DECIMAL DIMENSIONS ARE:
1 PLACE (0.1) - TOLERANCE ± 0.015
2 PLACE (0.01) - TOLERANCE ± 0.010
3 PLACE (0.001) - TOLERANCE ± 0.005
& ON FRACTIONAL DIMENSIONS ± 1/64
& ON ANGULAR DIMENSIONS ± 0.5°
FINISHES ARE DESIGNATED BY ROOT MEAN SQUARE (R.M.S.) MICRO-INCH ROUGHNESS VALUES AND ARE THE MAXIMUM ROUGHNESS ACCEPTABLE. UNLESS OTHERWISE SPECIFIED.
FINISH ROUGHNESS TO BE #error: broken link OR BETTER.
DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5-1994.

MATERIAL AND HEAT TREAT

MATERIAL : MIM-4140 REF.

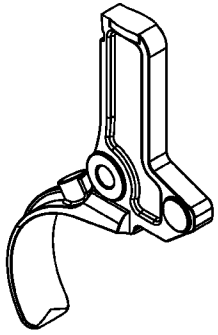
HEAT TREAT : CARBURIZE 0.7% C.P.

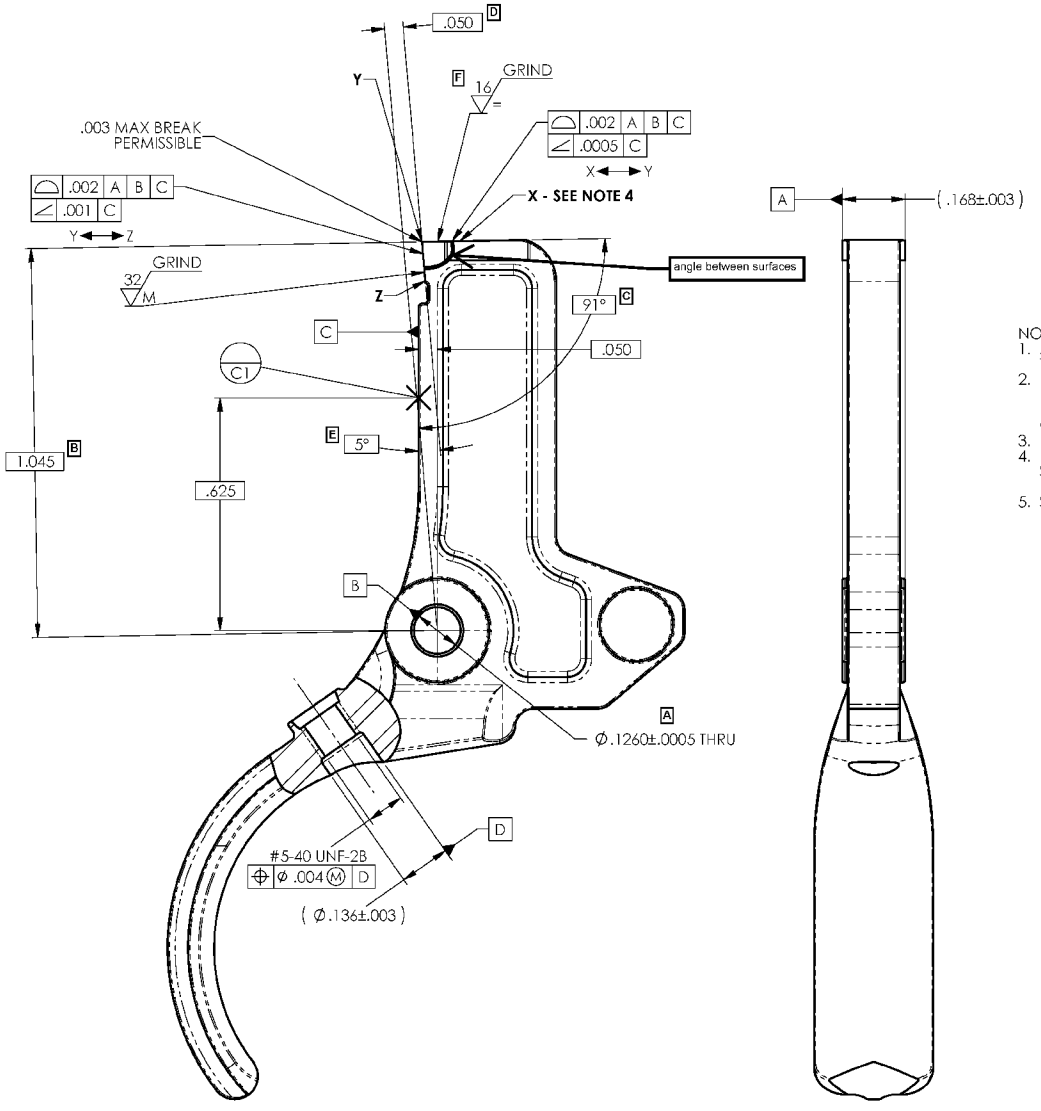
HARDNESS : HR15n 85-90; 0.008 MIN. EFF. CASE

FINISH : SEE NOTES

HEAT TREAT AND FINISH TO BE DONE BY REMINGTON

ALTERATIONS					
ALT.	ZONE	WAS	REF.	BY	DATE
A	A4	NOT RELEASED FOR PRODUCTION		JWR	4-24-07
B	A7	ADDED MODEL USAGE		JWR	4-24-07





NOTES:
1. ALL MACHINING TO BE DONE PRIOR TO PLATING. PROTECT SHARP EDGE TO PREVENT DAMAGE PRIOR TO AND DURING PLATING.
2. DUPLEX COATING, 0.0002"-0.0003" HIGH PHOSPHOROUS ELECTROLESS NICKEL PLATE, UNDER 0.00005"-0.00015" CO-DEPOSITED MEDIUM PHOSPHORUS ELECTROLESS NICKEL PLATE WITH PTFE (TEFLON). ALL COMPONENTS BAKED @ 375°F FOR 24 HOURS.
3. FOR DIMENSIONS NOT SHOWN, SEE E-301462.
4. POINT X FOR THE PROFILE AND ANGULARITY TOLERANCE ZONE ON THE TOP SURFACE OF THE TRIGGER IS LOCATED .100 ALONG THE SURFACE FROM POINT Y AT THE SHARP EDGE.
5. SURFACE FINISH IS TO BE MEASURED WITH A 10 MICRON PROFILOMETER TIP.

Ⓑ XR100	301463	TRIGGER
MODEL	PART NO.	PART USE
DES. BY DATE JWR 12-16-05	DRN. BY DATE JWR 01-10-06	CHK. BY DATE
TITLE TRIGGER		
SHEET SIZE C	NUMBER 301463	SCALE 4X / SUPERSEDES / REFERENCE
REMINGTON ARMS CO., INC. Madison, NC 27025		

SolidWorks File: 301463 - Trigger

Ⓐ **RELEASED FOR PRE-PRODUCTION ONLY**

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KINZER V. REMINGTON

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REMINGTON ARMS COMPANY, INC.

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2 PLACE (0.01) - TOLERANCE ± 0.010
3 PLACE (0.001) - TOLERANCE ± 0.005
& ON FRACTIONAL DIMENSIONS ± 1/64
& ON ANGULAR DIMENSIONS ± 0.5°
FINISHES ARE DESIGNATED BY ROOT MEAN SQUARE (R.M.S.) MICRO-INCH ROUGHNESS VALUES AND ARE THE MAXIMUM ROUGHNESS ACCEPTABLE. UNLESS OTHERWISE SPECIFIED. FINISH ROUGHNESS TO BE #error: broken link OR BETTER.
DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5-1994.

MATERIAL AND HEAT TREAT

MATERIAL : MIM-4140 REF.

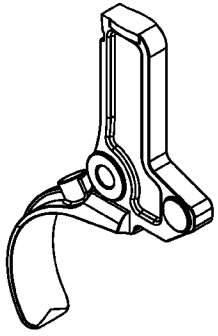
HEAT TREAT : CARBURIZE 0.7% C.P.

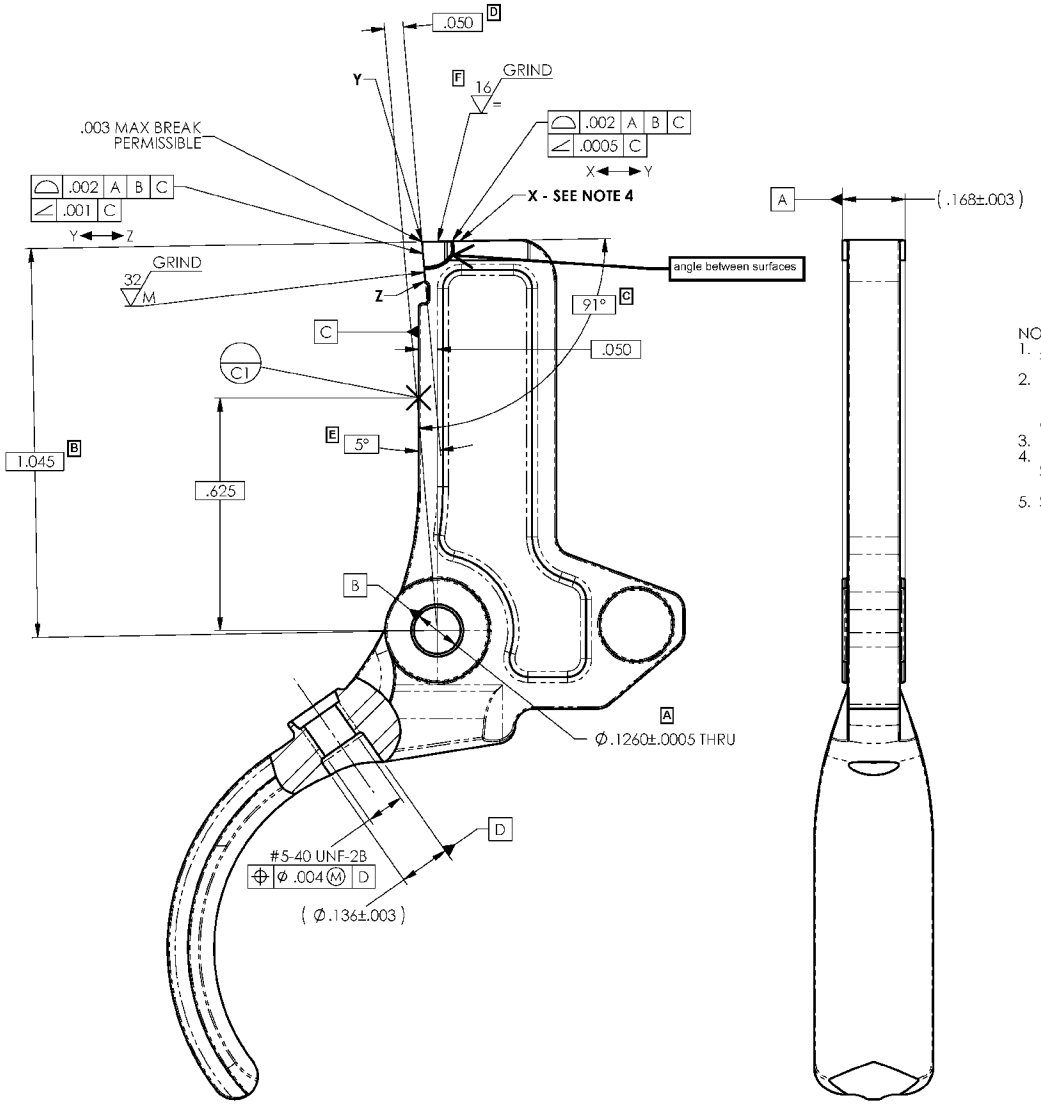
HARDNESS : HR15n 85-90; 0.008 MIN. EFF. CASE

FINISH : SEE NOTES

HEAT TREAT AND FINISH TO BE DONE BY REMINGTON

ALTERATIONS					
ALT.	ZONE	WAS	REF.	BY	DATE
A	A4	NOT RELEASED FOR PRODUCTION		JWR	4-24-07
B	A7	ADDED MODEL USAGE		JWR	4-24-07





NOTES:
1. ALL MACHINING TO BE DONE PRIOR TO PLATING. PROTECT SHARP EDGE TO PREVENT DAMAGE PRIOR TO AND DURING PLATING.
2. DUPLEX COATING, 0.0002"-0.0003" HIGH PHOSPHOROUS ELECTROLESS NICKEL PLATE, UNDER 0.00005"-0.00015" CO-DEPOSITED MEDIUM PHOSPHORUS ELECTROLESS NICKEL PLATE WITH PTFE (TEFLON). ALL COMPONENTS BAKED @ 375°F FOR 24 HOURS.
3. FOR DIMENSIONS NOT SHOWN, SEE E-301462.
4. POINT X FOR THE PROFILE AND ANGULARITY TOLERANCE ZONE ON THE TOP SURFACE OF THE TRIGGER IS LOCATED .100 ALONG THE SURFACE FROM POINT Y AT THE SHARP EDGE.
5. SURFACE FINISH IS TO BE MEASURED WITH A 10 MICRON PROFILOMETER TIP.

SolidWorks File: 301463 - Trigger

Ⓐ RELEASED FOR PRE-PRODUCTION ONLY

Ⓑ XR100	301463	TRIGGER	
MODEL	PART NO.	PART USE	
DES. BY DATE: JWR 12-16-05	DRN. BY DATE: JWR 01-10-06	CHK. BY DATE:	
TITLE: TRIGGER			
SHEET SIZE: C	NUMBER: 301463	SCALE: 4X	SUPERSEDES:	REFERENCE:
REMINGTON ARMS CO., INC. Madison, NC 27025			

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

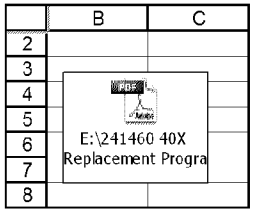
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1															
2			**Nominal**	**+**	**-**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
3	A	Free Length	0.2500	Min		0.2731	0.2662	0.2755	0.2712	0.2666	0.2642	0.2744	0.2743	0.2681	0.2674
4	B	OD	0.1200	Max		0.1125	0.1123	0.1124	0.1121	0.1124	0.1123	0.1120	0.1122	0.1121	0.1127
5	C	Wind	LH			OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
6	D	Ends	CEG			OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
7	E	Wire Diameter	0.0200	0.0010	0.0010	0.0194	0.0193	0.0196	0.0195	0.0194	0.0194	0.0194	0.0195	0.0194	0.0194
8	F	L1@.220	2.00	0.25	0.25	1.8500	**1.7350**	**2.2900**	**1.7300**	**1.6800**	**1.7450**	1.8950	1.9150	1.8400	**1.6200**
9	G	L2@.185	4.00	0.40	0.40	**3.3600**	**3.4300**	3.9100	**3.4100**	**3.3450**	**3.4400**	**3.5000**	3.7200	**3.5250**	**3.3050**

	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1															
2	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**
3	0.2673	0.2712	0.2681	0.2722	0.2726	0.2687	0.2695	0.2746	0.2697	0.2728	0.2766	0.2740	0.2672	0.2774	0.2692
4	0.1124	0.1121	0.1120	0.1122	0.1121	0.1124	0.1122	0.1122	0.1121	0.1123	0.1122	0.1122	0.1125	0.1122	0.1121
5	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
6	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
7	0.0193	0.0195	0.0193	0.0194	0.0193	0.0193	0.0194	0.0193	0.0193	0.0193	0.0193	0.0193	0.0195	0.0193	0.0193
8	**1.6800**	1.7650	1.8750	1.8850	**1.6750**	**1.7100**	**1.6100**	1.8300	1.7700	1.9200	1.8150	1.9100	**1.6650**	1.8850	1.7550
9	**3.3500**	**3.4350**	**3.4550**	**3.4450**	**3.3600**	**3.3700**	**3.2300**	**3.4850**	**3.4400**	**3.4450**	**3.4400**	**3.4300**	**3.2800**	**3.5200**	**3.4350**

	AE	AF	AG	AH	AI	AJ
1						
2	**26**	**Avg**	**SD**	**MAX**	**MIN**	**Range**
3	0.2695	0.2708	0.0035	0.2774	0.2642	0.0132
4	0.1121	0.1122	0.0002	0.1127	0.1120	0.0007
5	OK					
6	OK					
7	0.0192	0.0194	0.0001	0.0196	0.0192	0.0004
8	1.7550	1.8002	0.1374	2.2900	1.6100	0.6800
9	**3.4450**	3.4427	0.1331	3.9100	3.2300	0.6800

Cell: B8
Comment: Jim Ronkainen:
Loads are typically running low, most likely due to the wire size running smaller than nominal. Since an adjustment screw is used to set trigger pull force, parts can be used as-is.

Cell: B9
Comment: Jim Ronkainen:
Loads are typically running low, most likely due to the wire size running smaller than nominal. Since an adjustment screw is used to set trigger pull force, parts can be used as-is.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Replacement Progra

SHEET SIZE	NUMBER	REMINGTON ARMS CO., INC. Madison, NC 27025		
A	301708	SCALE 5X	SUPERSEDES	REFERENCE

TITLE SPRING, PRIMARY TRIGGER PULL

DES. BY DATE	DRN. BY DATE	CHK. BY DATE
JWR 6-1-07	JWR 6-1-07	

MODEL	PART NO.	PART USE
	301708	PRIMARY TRIGGER PULL SPRING

THIS DRAWING OR INFORMATION IS PROPRIETARY NFORMATION TO THE REMINGTON ARMS COMPANY, INC.

MATERIAL AND HEAT TREAT

MATERIAL : MUSIC WIRE (ASTM A228)

HEAT TREAT : STRESS RELIEVE

FINISH : OIL

INSPECTION

1. TO WORK FREELY IN A 0.120 DIA. HOLE.
2. TO WORK FREELY ON A 0.059 DIA. PIN.
3. LOAD 1.75 TO 2.25 LB. AT 0.220 (L1)
   LOAD 3.60 TO 4.40 LB. AT 0.185 (L2)
4. SOLID HEIGHT 0.155 MAX. 5. WIND LEFT HAND
6. FREE LENGTH 0.250 MIN. 7. ENDS CLOSED & GROUND
8. CHECK HERE FOR NON-COMMERCIAL TOLERANCES ☐

MANUFACTURE

9. WIRE DIA. 0.020 10. FREE LENGTH 0.255
11. OUTSIDE DIA. 0.110 12. COILS: ACTIVE 5.5
13. CHECK HERE FOR SET REMOVAL ☐ TOTAL 7.5

DESIGN DATA

14. SPRING RATE 57 LB/IN.
15. STATIC STRESS AT SOLID 231270 LB./SQ.IN.
16. DYNAMIC STRESS 0 LB./SQ.IN.
17. TOTAL STRESS AT SOLID 231270 LB./SQ.IN.
18. SOLID LOAD 6.0 LBS.
19. SPRING INDEX 4.5
20. TORSIONAL MODULUS 11.5E6 LB./SQ.IN.
21. CURVATURE CORRECTION FACTOR 1.351 (WAHL)
22. VELOCITY IMPACTING MASS 0 IN./SEC.
23. CRITICAL FREQUENCY 6201 HZ.
24. TOTAL STRESS AS % OF TENSILE STRENGTH 63%
25. ENERGY FROM L1 TO L2 0.70 IN-LBS.

NOT RELEASED FOR PRODUCTION

ALT.	WAS	REF.	BY	DATE

ALTERATIONS

THIS SPRING MUST MEET THE REQUIREMENTS IN THE INSPECTION SECTION. FIGURES GIVEN IN THE MANUFACTURE SECTION INDICATE THE PREFERRED SPRING. THE MANUFACTURER MAY, WITH PRIOR APPROVAL, DEVIATE FROM THESE FIGURES. FIGURES IN THE DESIGN DATA SECTION ARE BASED ON THOSE IN THE MANUFACTURE SECTION.

SOLIDWORKS FILE : 301708 - Primary Trigger Pull Spring

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SHEET SIZE	NUMBER	REMINGTON ARMS CO., INC. Madison, NC 27025		
A	301708	SCALE 5X	SUPERSEDES	REFERENCE

TITLE SPRING, PRIMARY TRIGGER PULL

DES. BY DATE	DRN. BY DATE	CHK. BY DATE
JWR 6-1-07	JWR 6-1-07	

MODEL	PART NO.	PART USE
	301708	PRIMARY TRIGGER PULL SPRING

THIS DRAWING OR INFORMATION IS PROPRIETARY NFORMATION TO THE REMINGTON ARMS COMPANY, INC.

MATERIAL AND HEAT TREAT

MATERIAL : MUSIC WIRE (ASTM A228)

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MANUFACTURE

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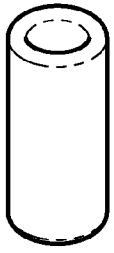
11. OUTSIDE DIA. 0.110 12. COILS: ACTIVE 5.5
13. CHECK HERE FOR SET REMOVAL ☐ TOTAL 7.5



DESIGN DATA

14. SPRING RATE 57 LB/IN.
15. STATIC STRESS AT SOLID 231270 LB./SQ.IN.
16. DYNAMIC STRESS 0 LB./SQ.IN.
17. TOTAL STRESS AT SOLID 231270 LB./SQ.IN.
18. SOLID LOAD 6.0 LBS.
19. SPRING INDEX 4.5
20. TORSIONAL MODULUS 11.5E6 LB./SQ.IN.
21. CURVATURE CORRECTION FACTOR 1.351 (WAHL)
22. VELOCITY IMPACTING MASS 0 IN./SEC.
23. CRITICAL FREQUENCY 6201 HZ.
24. TOTAL STRESS AS % OF TENSILE STRENGTH 63%
25. ENERGY FROM L1 TO L2 0.70 IN-LBS.

ALT.	WAS	REF.	BY	DATE

ALTERATIONS

THIS SPRING MUST MEET THE REQUIREMENTS IN THE INSPECTION SECTION. FIGURES GIVEN IN THE MANUFACTURE SECTION INDICATE THE PREFERRED SPRING. THE MANUFACTURER MAY, WITH PRIOR APPROVAL, DEVIATE FROM THESE FIGURES. FIGURES IN THE DESIGN DATA SECTION ARE BASED ON THOSE IN THE MANUFACTURE SECTION.

SOLIDWORKS FILE : 301708 - Primary Trigger Pull Spring

NOT RELEASED FOR PRODUCTION

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

	A	B	C	D	E	F	G	H	I	J	K	L
1		Housing #	Method	Nominal	Plus	Minus	1	2	3	4	5	6
2	A	Engagement Screw Hole Gage Pin Diameter	Gage Pin				.120+	.120+	.120+		.120+	.120+
3	A	Engagement Screw Hole Gage Pin Diameter	Gage Pin	0.120	0.001	0.001	0.1202	0.1202	0.1202		0.1202	0.1202
4	B	Trigger Pull Screw Hole Gage Pin Diameter	Gage Pin				.119+	.119+	.119+		.119+	.119+
5	B	Trigger Pull Screw Hole Gage Pin Diameter	Gage Pin	0.120	0.001	0.001	0.1192	0.1192	0.1192		0.1192	0.1192
6	C	Trigger Pull Screw Hole Vertical Position	MV	0.835			0.8326	0.8327	0.8347		0.8329	0.8345
7	D	Trigger Pull Screw Hole Lateral Position	MV	0.1475			0.1470	0.1480	0.1491		0.1473	0.1484
8		Trigger Pull Screw Hole Bonus	Calc				0.0002	0.0002	0.0002		0.0002	0.0002
9		Trigger Pull Screw Positional Tolerance	Calc	0.003	0.000	0.003	IN	IN	IN		IN	IN
10	E	Engagement Screw Hole Vertical Position	MV	0.925			0.9246	0.9243	0.9270		0.9230	0.9240
11	F	Engagement Screw Hole Lateral Position	MV	0.1475			0.1490	0.1491	0.1480		0.1488	0.1498
12		Engagement Screw Hole Bonus	Calc				0.0012	0.0012	0.0012		0.0012	0.0012
13		Engagement Screw Positional Tolerance	Calc	0.0030	0.000	0.003	IN	IN	IN		IN	IN
14												
15			**OHL**	= over high limit								
16			***ULL***	= under low limit								

	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Average	SD	MAX
2	.120+			.120+	.120+	.120+	.120+		.120+	.120+	.120+	.120+	.120+	.120+			
3	0.1202			0.1202	0.1202	0.1202	0.1202		0.1202	0.1202	0.1202	0.1202	0.1202	0.1202	0.1202	0.0000	0.1202
4	.119+			.119+	.119+	.119+	.119+		.119+	.119+	.119+	.119+	.119+	.120+			
5	0.1192			0.1192	0.1192	0.1192	0.1192		0.1192	0.1192	0.1192	0.1192	0.1192	0.1202	0.1193	0.0003	0.1202
6	0.8342			0.8329	0.8341	0.8341	0.8349		0.8341	0.8346	0.8329	0.8335	0.8342	0.8330	0.8337	0.0008	0.8349
7	0.1479			0.1475	0.1487	0.1471	0.1494		0.1497	0.1480	0.1493	0.1488	0.1476	0.1508	0.1484	0.0011	0.1508
8	0.0002			0.0002	0.0002	0.0002	0.0002		0.0002	0.0002	0.0002	0.0002	0.0002	0.0012	0.0003	0.0003	0.0012
9	IN			IN	IN	IN	IN		IN	IN	IN	IN	IN	IN			
10	0.9223			0.9258	0.9233	0.9242	0.9257		0.9241	0.9231	0.9225	0.9258	0.9223	0.9247	0.9242	0.0014	0.9270
11	0.1496			0.1489	0.1489	0.1478	0.1485		0.1485	0.1487	0.1476	0.1472	0.1484	0.1480	0.1485	0.0007	0.1498
12	0.0012			0.0012	0.0012	0.0012	0.0012		0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0000	0.0012
13	IN			IN	IN	IN	IN		IN	IN	IN	IN	IN	IN			
14																	
15																	
16																	

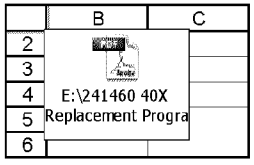
	AD	AE
1	MIN	Range
2		
3	0.1202	0.0000
4		
5	0.1192	0.0010
6	0.8326	0.0023
7	0.1470	0.0038
8	0.0002	0.0010
9		
10	0.9223	0.0047
11	0.1472	0.0026
12	0.0012	0.0000
13		
14		
15		
16		

Cell: J1
Comment: Jim Ronkainen:
Housing damaged in processing - not measured.

Cell: N1
Comment: Jim Ronkainen:
Housing damaged in processing - not measured.

Cell: O1
Comment: Jim Ronkainen:
Housing damaged in processing - not measured.

Cell: T1
Comment: Jim Ronkainen:
Housing damaged in processing - not measured.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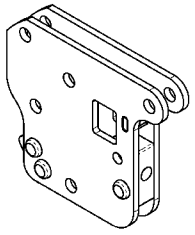
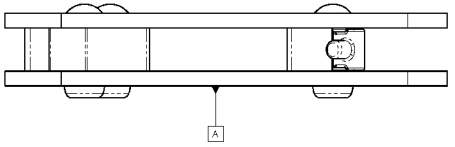
Replacement Progra

THIS DRAWING OR INFORMATION IS
PROPRIETARY INFORMATION TO THE
REMINGTON ARMS COMPANY, INC.

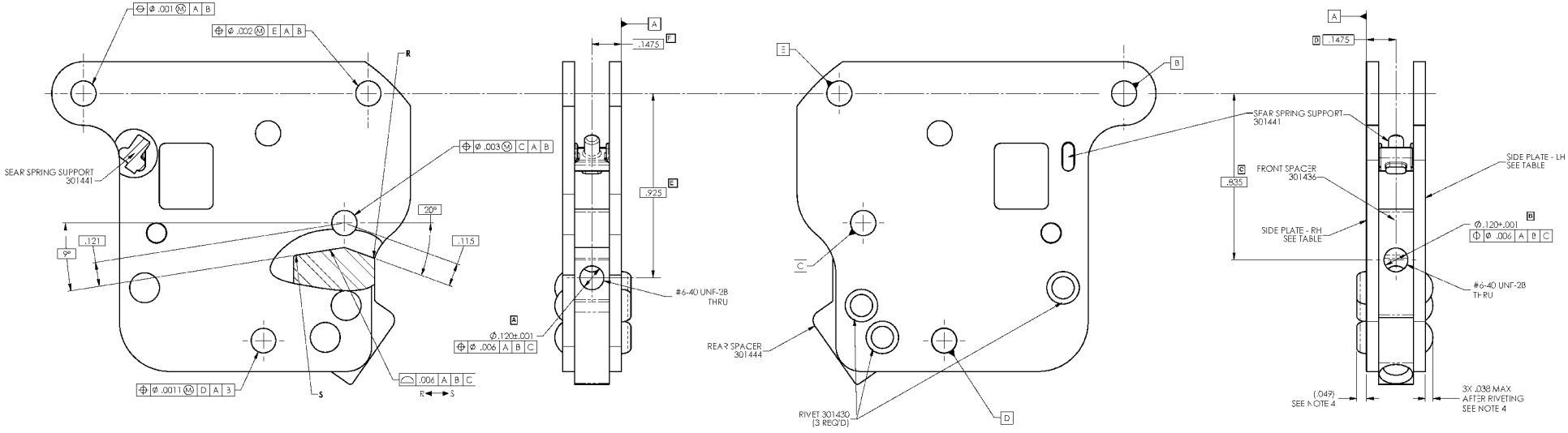




MATERIAL AND HEAT TREAT

MATERIAL - SEE COMPONENT DRAWINGS
HEAT TREAT - N/A
HARDNESS - N/A
FINISH - SEE NOTES
HEAT TREAT AND FINISH TO BE DONE BY REMINGTON

ALTERATIONS					
A.L.	ZONE	WAS	REV.	BY	DATE
A		WAS D-EX79572		jmk	9-6-05
B		REVISED NOTE 5		jmk	9-6-05
C		REVISED AND REDRAWN		JWR	10-3-05
D	A3	NOT RELEASED FOR PRODUCTION		jmk	4/24/07
E	A7	ADDED MODEL USAGE (2X)		jmk	4/24/07



TRIGGER HOUSING ASSEMBLY	RIGHT HAND SIDE PLATE	LEFT HAND SIDE PLATE	DESCRIPTION
306365	301442	301435	TRIGGER HOUSING - RH
306366	301435	301442	TRIGGER HOUSING - LH

NOTES:
1. ASSEMBLY TO BE PLATED WITH 0.0002" - 0.0004" HIGH PHOSPHORUS ELECTROLESS NICKEL. ALL COMPONENTS BULK FINISHED AND BAKED AT 375° F FOR 24 HOURS, OR POST-PROCESS HEAT TREATED PER ASTM B850, CLASS ER-1 OR ER-17, WHICHEVER IS APPLICABLE.
2. DRILL AND TAP HOLES AFTER PLATING.
3. ALL DRILLED AND TAPPED HOLES TO BE DEBURRED.
4. NOTE THAT RIVET ORIENTATION S REVERSED ON ASSEMBLY 306366. ASSEMBLY 306365 SHOWN UNLESS OTHERWISE SPECIFIED.

D	XR100	306366	TRIGGER HOUSING - LH
	XR100	306365	TRIGGER HOUSING - RH
	MODEL	PART NO.	PART USE
DES. BY DATE: JWR 12-16-05	DRN. BY DATE: JWR 01-10-06	CHK. BY DATE:	

TITLE: TRIGGER HOUSING ASSEMBLY

SHEET SIZE	NUMBER	SCALE	SUBMISSION	PRE-PRODUCTION
D	305365	4X		

REMINGTON ARMS CO., INC.
Madison, NC 27025

SOLIDWORKS FILE 306365 Trigger Housing Assembly

D RELEASED FOR PRE-PRODUCTION ONLY

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

THIS DRAWING OR INFORMATION IS
PROPRIETARY INFORMATION TO THE
REMINGTON ARMS COMPANY, INC.

MATERIAL AND HEAT TREAT

MATERIAL - SEE COMPONENT DRAWINGS

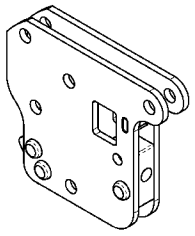
HEAT TREAT - N/A

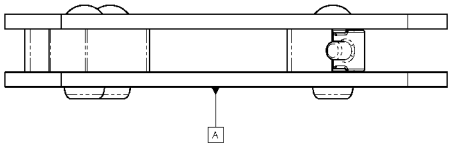
HARDNESS - N/A

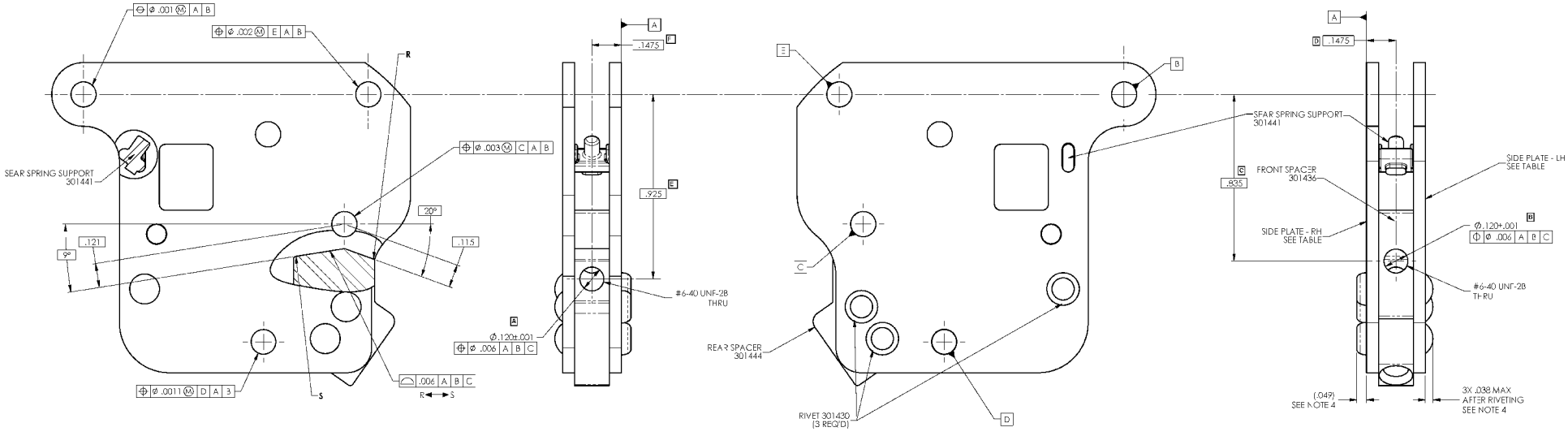
FINISH - SEE NOTES

HEAT TREAT AND FINISH TO BE DONE BY REMINGTON

ALTERATIONS					
A.L.	ZONE	WAS	REF.	BY	DATE
A		WAS D-EX79572		JWR	9-6-05
B		REVISED NOTE 5		JWR	9-6-05
C		REVISED AND REDRAWN		JWR	10-3-05
D	A3	NOT RELEASED FOR PRODUCTION		JWR	4/24/07
E	A7	ADDED MODEL USAGE (2X)		JWR	4/24/07







TRIGGER HOUSING ASSEMBLY	RIGHT HAND SIDE PLATE	LEFT HAND SIDE PLATE	DESCRIPTION
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4. NOTE THAT RIVET ORIENTATION S REVERSED ON ASSEMBLY 306366. ASSEMBLY 306365 SHOWN UNLESS OTHERWISE SPECIFIED.

D	XR100	306366	TRIGGER HOUSING - LH
	XR100	306365	TRIGGER HOUSING - RH
	MODEL	PART NO.	PART USE
	DES. BY/ DATE: JWR 12-16-05	DRN. BY/ DATE: JWR 01-10-06	CHK. BY/ DATE

TITLE: TRIGGER HOUSING ASSEMBLY

SHEET SIZE: D | DRAWING NUMBER: 305365 | SCALE: 4X | SUBMISSION: | PRE-PRODUCTION

REMINGTON ARMS CO., INC.
Madison, NC 27025

SOLIDWORKS FILE 306365 Trigger Housing Assembly

D RELEASED FOR PRE-PRODUCTION ONLY

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

TLW2170
INTERIM PROGRESS REPORT A
40X X-MARK PRO TRIGGER FRACTURE
40X XMP DAT (S/N: TA#12)
Endurance Testing Measurement / Accidental Impact

DESCRIPTION

A trigger failure occurred during the measurement routine of the endurance testing portion of the DAT for the 40X X-Mark Pro fire-control conducted on March 28, 2007. Trigger assembly #12 (TA#12) was accidentally impacted against the measurement fixture which precipitated a failure of the trigger by fracture. At the time of failure, TA#12 had 500 rounds fired and was being utilized in test firearm A12. The measurements were being conducted by J. Ronkainen (Staff Engineer) using the optical comparator. When the trigger assembly was removed from the fixture, the trigger impacted the T-slot table fixturing of the optical comparator. This impact resulted in the fracture of the trigger. Figure 1 presents an image of the failed trigger assembly.

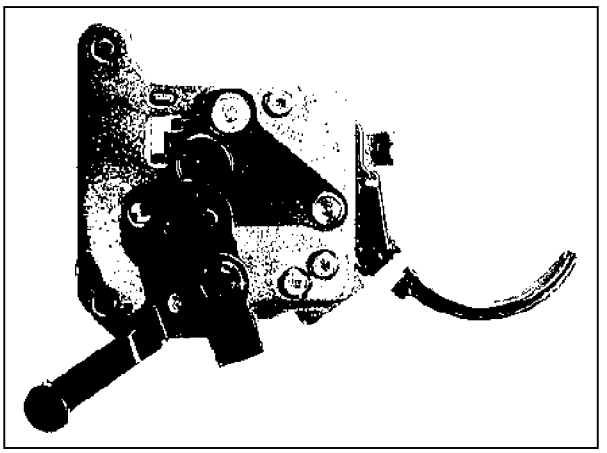


Figure 1. The failed TA#12 test sample.

SUMMARY AND RECOMMENDATIONS

The failure was a result of the impact of the trigger coupled with the geometry of the welded boss on the trigger. The welded boss created a notch that acted as a stress riser, at which the fracture initiated. In the production version, this weld will not be present; instead, the boss will be molded into the MIM trigger geometry without the presence of a notch. It should be noted also that the loading conditions which resulted in the failure are **NOT** typical of normal usage conditions for the trigger assembly. Most likely, this type of impact would not happen in the field due to the presence of the trigger guard on the assembled rifle.

ACTIONS TAKEN

TA#12 was removed from the DAT testing protocol. The DAT test was continued with TA#13 substituted for TA#12 for the remainder of the endurance testing. No other changes are planned for the remainder of the DAT. The failed trigger assembly was returned to J. Ronkainen.

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON
R 2194102

FINDINGS

Figure 2 presents an image of the fracture surface of the trigger bow with the fracture initiation site identified. The fracture initiated at the outside surface of the screw boss at a notch created by the intersection of the weld bead and the trigger adjustment screw boss. Figure 3 presents a side-view image of the failed trigger at the fracture initiation site location. This image provides an illustration of the notch created between the weld bead and the trigger adjustment screw boss. In the production design, the trigger adjustment screw boss will be molded into the trigger geometry and the weld bead will not be required. This will eliminate the potential of a notch existing and minimize any stress risers at this location on the trigger.

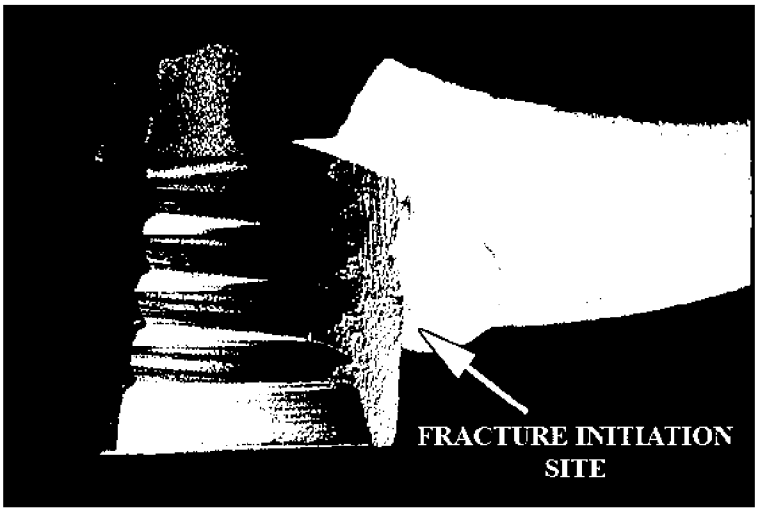


Figure 2. The fracture surface of the failed trigger showing the location of the fracture initiation.

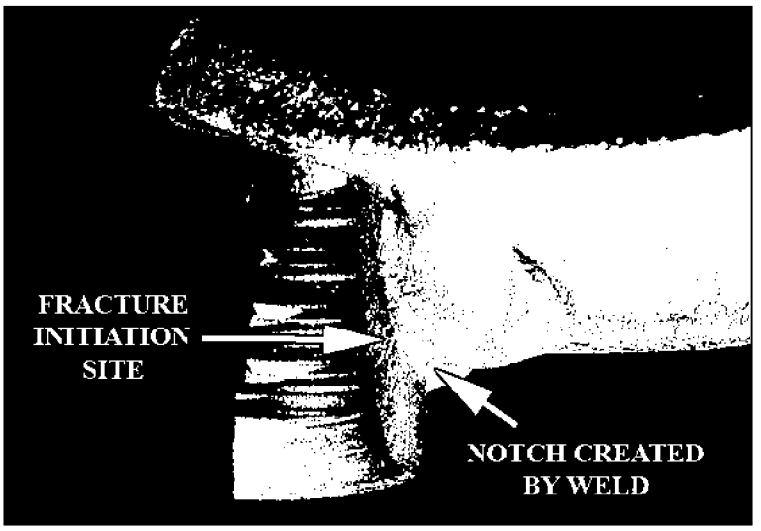


Figure 3. A side-view of the fractured trigger showing the location of the fracture initiation site relative to the notch created between the weld bead and the trigger adjustment screw boss.

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON
R 2194103

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Trigger #	Pivot Hole Gage Pin Diameter	Pivot Hole Diameter		Distance Top Edge: Distance XY	Angle Datum C to Top: Angle	Distance Rear Edge: Distance XY	Angle Datum C Rear Edge: Angle	Distance Datum C to Pivot: Distance XY	Angle from Top to Rear Surface		Distance Top Edge: Distance XY	Angle Datum C to Top: Angle
2		Gage Pin			MV	MV	MV	MV	MV	MV		MV	MV
3			0.1260		1.045	91.0	0.050	5.0	0.050	86.0		1.0450	91.0
4			0.0005		0.001	0.4	0.001	0.4	0.004	0.4		0.0010	0.4
5			0.0005		0.001	0.4	0.001	0.4	0.004	0.4		0.0010	0.4
6	1	.1255+	0.1257		1.0457	90.775	***0.0474***	4.809	0.0503	85.966		**1.0461**	90.763
7	2	.1255+	0.1257		1.0458	90.649	***0.0465***	***4.590***	0.0481	86.060		**1.0462**	90.794
8	3	.1255+	0.1257		**1.0461**	90.875	***0.0447***	***4.593***	0.0490	86.282		1.0454	90.969
9	4	.1255+	0.1257		**1.0463**	90.814	***0.0473***	4.765	0.0497	86.049		**1.0466**	90.789
10	5	.1255+	0.1257		**1.0466**	90.667	***0.0477***	4.669	0.0480	85.998		1.0459	90.890
11	6	.1255+	0.1257		**1.0464**	90.696	***0.0417***	***4.308***	0.0476	86.388		**1.0466**	90.815
12	7	.1255+	0.1257		1.0456	90.809	***0.0463***	4.639	0.0487	86.170		1.0457	91.009
13	8	.1255+	0.1257		1.0457	90.695	***0.0405***	***4.329***	0.0491	86.365		**1.0462**	90.817
14	9	.1255+	0.1257		**1.0468**	90.885	***0.0486***	4.785	0.0492	86.100		**1.0465**	90.788
15	10	.1255+	0.1257		**1.0463**	90.860	***0.0461***	4.786	0.0505	86.073		**1.0462**	90.888
16	11	.1255+	0.1257		1.0458	90.828	***0.0451***	4.704	0.0503	86.124		1.0459	90.817
17	12	.1255+	0.1257		**1.0466**	90.705	***0.0477***	4.714	0.0487	85.991		1.0455	90.747
18	13	.1255+	0.1257		1.0460	90.871	***0.0452***	4.798	0.0512	86.073		1.0459	90.908
19	14	.1255+	0.1257		**1.0462**	90.866	***0.0465***	4.736	0.0501	86.130		1.0460	90.892
20	15	.1255+	0.1257		**1.0464**	90.748	***0.0432***	***4.499***	0.0489	86.249		1.0459	90.799
21	16	.1255+	0.1257		1.0457	90.670	***0.0431***	***4.569***	0.0496	86.101		1.0460	90.834
22	17	.1255+	0.1257		**1.0466**	***90.599***	***0.0480***	4.873	0.0506	85.727		**1.0460**	90.680
23	18	.1255+	0.1257		**1.0467**	90.900	***0.0484***	4.889	0.0508	86.010		**1.0461**	90.854
24	19	.1255+	0.1257		**1.0469**	90.826	***0.0463***	4.700	0.0498	86.126		**1.0464**	91.034
25	20												
26	21	.1255+	0.1257		**1.0461**	90.832	***0.0471***	4.680	0.0486	86.152		1.0458	90.904
27	22	.1255+	0.1257		**1.0465**	90.712	***0.0470***	4.666	0.0485	86.046		1.0456	90.807
28	23	.1255+	0.1257		**1.0463**	90.643	***0.0477***	4.760	0.0491	85.883		1.0453	90.747
29	24	.1255+	0.1257		**1.0464**	90.662	***0.0476***	4.687	0.0482	85.976		1.0460	90.700
30	25	.1255+	0.1257		**1.0461**	90.832	***0.0445***	4.602	0.0496	86.230		**1.0463**	90.934
31	26	.1255+	0.1257		**1.0468**	90.766	***0.0467***	4.716	0.0493	86.050		**1.0461**	90.805
32													
33	Average		0.1257		1.0462	90.7673	0.0460	4.6746	0.0493	86.0927		1.0460	90.8394
34	SD		0.0000		0.0004	0.0906	0.0021	0.1420	0.0010	0.1436		0.0003	0.0889
35	Max		0.1257		1.04689	90.8995	0.04855	4.8894	0.0512	86.3879		1.0466	91.0339
36	Min		0.1257		1.04559	90.5992	0.04047	4.3076	0.0476	85.7265		1.0453	90.6798
37	Range		0		0.0013	0.3003	0.00808	0.5818	0.0037	0.6614		0.0013	0.3541
38													
39													
40													
41					0.1259	0.00025	0.00005	0.00039	0.00007	1.04589	90.8095	0.04785	4.931

	N	O	P	Q	R	S	T	U	V	W	X
1	Distance Rear Edge: Distance XY	Angle Datum C Rear Edge: Angle	Distance Datum C to Pivot: Distance XY	Angle from Top to Rear Surface							
2	MV	MV	MV	MV							
3	0.050	5.0	0.050	86.0							
4	0.001	0.4	0.004	0.4							
5	0.001	0.4	0.004	0.4							
6	***0.0477***	4.846	0.0499	85.918							
7	***0.0463***	4.747	0.0499	86.047							
8	***0.0448***	4.698	0.0500	86.271							
9	0.0496	4.922	0.0496	85.867							
10	0.0492	5.003	0.0508	85.887							
11	***0.0440***	***4.556***	0.0494	86.259	trigger 6-4						
12	***0.0464***	4.835	0.0510	86.174							
13	***0.0472***	4.780	0.0493	86.037							
14	***0.0482***	4.807	0.0493	85.981							
15	***0.0465***	4.820	0.0504	86.068							
16	***0.0467***	4.791	0.0495	86.026							
17	***0.0484***	4.804	0.0490	85.942							
18	***0.0452***	4.800	0.0509	86.108							
19	***0.0473***	4.780	0.0496	86.112							
20	***0.0439***	***4.557***	0.0488	86.242							
21	***0.0425***	4.607	0.0501	86.227							
22	0.0493	4.900	0.0495	85.780							
23	**0.0565**	5.286	0.0493	***85.569***		1.04606	90.8522	0.05702	5.2934	0.04883	85.5588
24	**0.0525**	5.225	0.0514	85.809							
25											
26	**0.0514**	5.068	0.0501	85.837							
27	***0.0485***	4.836	0.0494	85.971							
28	***0.0476***	4.830	0.0496	85.917							
29	***0.0486***	4.771	0.0480	85.929							
30	***0.0461***	4.802	0.0509	86.132							
31	***0.0475***	4.802	0.0496	86.003		1.04641	90.7942	0.04721	4.8006	0.04989	85.9937
32											
33	0.0477	4.8349	0.0498	86.0045							
34	0.0029	0.1708	0.0008	0.1686							
35	0.05647	5.2856	0.0514	86.2711							
36	0.04249	4.5557	0.0480	85.5687							
37	0.01398	0.7299	0.0034	0.7024							
38											
39											
40											
41	0.05147	85.8786									

Cell: A25
Comment: MicroVu:
trigger 20 is missing

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Trigger #	Pivot Hole Gage Pin Diameter	Pivot Hole Diameter	Pivot Hole Diameter	Top Line Straightness	Top Line RMS Error	Rear Line Straightness	Rear Line RMS Error	Distance Top Edge: Distance XY	Angle Datum C to Top: Angle	Distance Rear Edge: Distance XY	Angle Datum C Rear Edge: Angle	Distance Datum C to Pivot: Distance XY
2		Gage Pin		MV	MV	MV	MV	MV	MV	MV	MV	MV	MV
3			0.1260	0.12600					1.04500	91.0000	0.05000	5.0000	0.05000
4			0.0005	0.00050					0.00100	0.3000	0.00100	0.4000	0.00400
5			0.0005	0.00050					0.00100	0.3000	0.00100	0.4000	0.00400
6	1	.1255+	0.1257	0.12589	0.00027	0.00005	0.00040	0.00007	1.04593	90.8097	***0.04786***	4.9301	0.05143
7	2	.1255+	0.1257	0.12589	0.00023	0.00003	0.00051	0.00012	1.04590	90.7280	***0.04538***	4.7031	0.05042
8	3	.1255+	0.1257	0.12594	0.00027	0.00007	0.00055	0.00011	1.04557	90.9122	***0.04430***	4.7364	0.05118
9	4	.1255+	0.1257	0.12578	0.00020	0.00004	0.00027	0.00006	1.04599	90.7965	***0.04715***	4.8257	0.05062
10	5	.1255+	0.1257	0.12576	0.00023	0.00004	0.00038	0.00008	1.04584	90.8000	***0.04794***	4.9328	0.05115
11	6	.1255+	0.1257	0.12587	0.00021	0.00003	0.00024	0.00005	1.04597	90.8700	***0.04513***	4.6183	0.04933
12	7	.1255+	0.1257	0.12581	0.00032	0.00007	0.00046	0.00007	1.04555	90.8163	***0.04686***	4.8434	0.05099
13	8	.1255+	0.1257	0.12580	0.00038	0.00009	0.00034	0.00006	1.04538	90.8420	***0.04372***	4.6164	0.05053
14	9	.1255+	0.1257	0.12577	0.00022	0.00006	0.00035	0.00008	1.04590	90.9215	***0.04804***	4.8849	0.05082
15	10	.1255+	0.1257	0.12593	0.00046	0.00009	0.00060	0.00015	1.04536	90.8845	***0.04609***	4.9232	0.05231
16	11	.1255+	0.1257	0.12583	0.00018	0.00004	0.00052	0.00011	1.04525	90.8869	***0.04519***	4.8452	0.05200
17	12	.1255+	0.1257	0.12589	0.00051	0.00011	0.00027	0.00006	1.04552	90.7165	***0.04763***	4.8100	0.05008
18	13	.1255+	0.1257	0.12588	0.00016	0.00003	0.00056	0.00010	1.04575	90.9753	***0.04495***	4.9254	0.05315
19	14	.1255+	0.1257	0.12576	0.00102	0.00020	0.00025	0.00006	1.04589	90.9722	***0.04549***	4.7708	0.05133
20	15	.1255+	0.1257	0.12586	0.00041	0.00007	0.00021	0.00006	1.04579	90.8077	***0.04394***	4.6929	0.05106
21	16	.1255+	0.1257	0.12592	0.00025	0.00005	0.00083	0.00014	1.04544	90.8261	***0.04472***	4.7411	0.05075
22	17	.1255+	0.1257	0.12591	0.00043	0.00009	0.00085	0.00017	1.04578	90.8543	***0.04898***	5.0360	0.05191
23	18	.1255+	0.1257	0.12601	0.00032	0.00006	0.00047	0.00006	1.04592	90.9722	0.04990	5.0251	0.05128
24	19	.1255+	0.1257	0.12593	0.00022	0.00004	0.00050	0.00009	1.04598	90.8719	***0.04616***	4.7922	0.05097
25	20												
26	21	.1255+	0.1257	0.12591	0.00017	0.00004	0.00033	0.00007	1.04510	90.8407	***0.04650***	4.7797	0.05044
27	22	.1255+	0.1257	0.12577	0.00019	0.00004	0.00021	0.00006	1.04573	90.7703	***0.04707***	4.8189	0.05069
28	23	.1255+	0.1257	0.12592	0.00062	0.00010	0.00020	0.00005	1.04565	90.7169	***0.04748***	4.8330	0.05040
29	24	.1255+	0.1257	0.12584	0.00033	0.00007	0.00063	0.00013	1.04584	90.7153	***0.04822***	4.8678	0.05010
30	25	.1255+	0.1257	0.12590	0.00025	0.00006	0.00039	0.00010	1.04572	90.8231	***0.04557***	4.7322	0.05053
31	26	.1255+	0.1257	0.12592	0.00021	0.00004	0.00017	0.00004	**1.04608**	90.8630	***0.04685***	4.8623	0.05111
32													
33	Average		0.1257	0.12587	0.00032	0.00006	0.00042	0.00009	1.04571	90.8397	0.04644	4.8219	0.05098
34	SD		0.0000	0.00007	0.00019	0.00004	0.00019	0.00003	0.00026	0.0769	0.00161	0.1085	0.00079
35	Max		0.1257	0.12601	0.00102	0.00020	0.00085	0.00017	1.04608	90.9753	0.04990	5.0360	0.05315
36	Min		0.1257	0.12576	0.00016	0.00003	0.00017	0.00004	1.04510	90.7153	0.04372	4.6164	0.04933
37	Range		0.0000	0.00025	0.00086	0.00017	0.00068	0.00013	0.00098	0.2600	0.00618	0.4196	0.00382

	N	O
1	Angle from Top to Rear Surface	Surface Roughness
2	MV	Surfometer
3	86.0000	16.0
4	0.4000	0.0
5	0.4000	16.0
6	85.8796	5.2
7	86.0248	5.5
8	86.1758	4.0
9	85.9708	3.9
10	85.8672	4.9
11	86.2517	5.5
12	85.9729	5.9
13	86.2256	7.4
14	86.0367	5.1
15	85.9614	4.3
16	86.0416	7.1
17	85.9064	5.2
18	86.0499	3.0
19	86.2014	6.1
20	86.1148	4.4
21	86.0850	4.6
22	85.8183	4.0
23	85.9471	5.0
24	86.0797	5.6
25		
26	86.0610	5.2
27	85.9514	3.5
28	85.8840	5.6
29	85.8475	8.0
30	86.0909	4.0
31	86.0007	5.4
32		
33	86.0178	5.1
34	0.1193	1.185
35	86.2517	8.0
36	85.8183	3.0
37	0.4334	5.0

Cell: A25
Comment: MicroVu:
trigger 20 is missing

	A	B	C	D	E	F	G	H	I	J	K
1		301463 2-23 pm.iwp						data file		301463 I give up.iwp	
2		1.04500	91.0000	0.05000	5.0000	0.05000	86.0000			1.04500	91.0000
3											
4											
5	1	1.04690	90.4367	0.04742	4.5761	0.04672	85.8605	T1-1 R&R		1.04653	90.8280
6	2	1.04690	90.4166	0.04838	4.6160	0.04649	85.8006	T1-2 R&R		1.04643	90.8109
7	3	1.04688	90.4589	0.04863	4.6286	0.04653	85.8304	T1-3 R&R		1.04656	90.8143
8	4	1.04688	90.3788	0.04844	4.6138	0.04646	85.7650	T1-4 R&R		1.04648	90.8750
9	5	1.04681	90.4016	0.04824	4.6072	0.04648	85.7944	T1-5 R&R		1.04666	90.8317
10	6	1.04690	90.4912	0.04764	4.6328	0.04733	85.8585	T1-6 R&R		1.04636	90.8557
11	7	1.04690	90.4314	0.04948	4.7104	0.04688	85.7211	T1-7 R&R		1.04640	90.8494
12	8	1.04683	90.5084	0.04749	4.5991	0.04700	85.9093	T1-8 R&R		1.04620	90.8452
13	9	1.04664	90.5057	0.04782	4.6229	0.04701	85.8828	T1-9 R&R		1.04648	90.8480
14	10	1.04670	90.3781	0.04973	4.7031	0.04664	85.6749	T1-10 R&R		1.04648	90.8513
15											
16	Avg.	1.04683	90.44074	0.04833	4.63100	0.04675	85.80975			1.04646	90.8410
17	SD	0.00009	0.04905	0.00079	0.04307	0.00029	0.07378			0.00012	0.0197
18	MAX	1.04690	90.50840	0.04973	4.71040	0.04733	85.90930			1.04666	90.8750
19	MIN	1.04664	90.37810	0.04742	4.57610	0.04646	85.67490			1.04620	90.8109
20	Range	0.00026	0.13030	0.00231	0.13430	0.00087	0.23440			0.00046	0.0641
21											
22										0.00038	-0.40021
23										-0.00003	0.02936
24										0.00024	-0.36660
25										0.00044	-0.43280
26										-0.00020	0.06620

	L	M	N	O	P	Q	R	S	T	U	V
1					data file		301463 I give up imp.iwp				
2	0.05000	5.0000	0.05000	86.0000			1.04500	91.0000	0.05000	5.0000	0.05000
3											
4											
5	0.04692	4.7933	0.05056	86.0348	T1-1-2 R&R		1.04589	90.8506	0.04716	4.8098	0.05048
6	0.04683	4.7733	0.05036	86.0377	T1-2-2 R&R		1.04581	90.8451	0.04696	4.8068	0.05066
7	0.04669	4.7685	0.05046	86.0458	T1-3-2 R&R		1.04599	90.8549	0.04728	4.8190	0.05054
8	0.04722	4.8392	0.05091	86.0358	T1-4-2 R&R		1.04597	90.8413	0.04723	4.8093	0.05044
9	0.04699	4.7973	0.05053	86.0344	T1-5-2 R&R		1.04598	90.8116	0.04728	4.7730	0.04980
10	0.04698	4.8217	0.05088	86.0340	T1-6-2 R&R		1.04601	90.8051	0.04729	4.7716	0.04981
11	0.04720	4.8236	0.05070	86.0258	T1-7-2 R&R		1.04635	90.8230	0.04698	4.7933	0.05047
12	0.04698	4.8197	0.05088	86.0255	T1-8-2 R&R		1.04629	90.8257	0.04753	4.7894	0.04981
13	0.04713	4.8158	0.05066	86.0321	T1-9-2 R&R		1.04608	90.8355	0.04727	4.7951	0.05016
14	0.04717	4.8202	0.05070	86.0311	T1-10-2 R&R		1.04595	90.8374	0.04727	4.7960	0.05015
15											
16	0.04701	4.8073	0.05066	86.0337			1.04596	90.83519	0.04722	4.79758	0.05026
17	0.00017	0.0232	0.00019	0.0058			0.00008	0.01784	0.00011	0.01740	0.00033
18	0.04722	4.8392	0.05091	86.0458			1.04608	90.85490	0.04729	4.81900	0.05066
19	0.04669	4.7685	0.05036	86.0255			1.04581	90.80510	0.04696	4.77160	0.04980
20	0.00053	0.0707	0.00055	0.0203			0.00027	0.0498	0.00033	0.0474	0.00086
21											
22	0.00132	-0.17626	-0.00391	-0.22395			0.00050	0.00576	-0.00021	0.00969	0.00041
23	0.00062	0.01988	0.00010	0.06793			0.00004	0.00185	0.00006	0.00580	-0.00014
24	0.00251	-0.12880	-0.00358	-0.13650			0.00058	0.02010	-0.00007	0.02020	0.00025
25	0.00073	-0.19240	-0.00390	-0.35060			0.00039	0.00580	-0.00027	-0.00310	0.00056
26	0.00178	0.06360	0.00032	0.21410			0.00019	0.01430	0.00020	0.02330	-0.00031

	W	X	Y	Z	AA	AB	AC	AD	AE	AF
1		data file		301463 I give up imp-2.iwp						data file
2	86.0000			1.04500	91.0000	0.05000	5.0000	0.05000	86.0000	
3				0.00100	0.2000	0.00100	0.2000	0.00400	0.2000	
4				0.00100	0.2000	0.00100	0.2000	0.00400	0.2000	
5	86.0408	T1-1-3 R&R		1.04599	90.81860	***0.04790***	4.93470	0.05145	85.88390	T1-1-4 R&R
6	86.0383	T1-2-3 R&R		1.04586	90.81240	***0.04779***	4.92920	0.05147	85.88310	T1-2-4 R&R
7	86.0358	T1-3-3 R&R		1.04588	90.81490	***0.04788***	4.93770	0.05150	85.87720	T1-3-4 R&R
8	86.0320	T1-4-3 R&R		1.04598	90.81620	***0.04803***	4.93780	0.05141	85.87840	T1-4-4 R&R
9	86.0385	T1-5-3 R&R		1.04590	90.80710	***0.04785***	4.92370	0.05137	85.88330	T1-5-4 R&R
10	86.0335	T1-6-3 R&R		1.04588	90.81230	***0.04783***	4.92910	0.05143	85.88320	T1-6-4 R&R
11	86.0297	T1-7-3 R&R		1.04589	90.80970	***0.04789***	4.93280	0.05148	85.87690	T1-7-4 R&R
12	86.0364	T1-8-3 R&R		1.04590	90.81630	***0.04788***	4.93670	0.05153	85.87950	T1-8-4 R&R
13	86.0404	T1-9-3 R&R		1.04588	90.81510	***0.04781***	4.93450	0.05154	85.88060	T1-9-4 R&R
14	86.0414	T1-10-3 R&R		1.04589	90.80950	***0.04785***	4.93100	0.05147	85.87860	T1-10-4 R&R
15										
16	86.03759			1.04591	90.8133	0.04787	4.9322	0.05146	85.8810	
17	0.00349			0.00005	0.0037	0.00007	0.0049	0.00005	0.0027	
18	86.04140			1.04599	90.8186	0.04803	4.9378	0.05154	85.8839	
19	86.03200			1.04586	90.8071	0.04779	4.9237	0.05137	85.8772	
20	0.0094			0.00013	0.0115	0.00024	0.0141	0.00017	0.0067	
21										
22	-0.00389			0.00005	0.02193	-0.00065	-0.13464	-0.00120	0.15655	
23	0.00236			0.00003	0.01412	0.00004	0.01253	0.00028	0.00082	
24	0.00440			0.00009	0.03630	-0.00074	-0.11880	-0.00088	0.15750	
25	-0.00650			-0.00005	-0.00200	-0.00083	-0.15210	-0.00157	0.15480	
26	0.01090			0.00014	0.03830	0.00009	0.03330	0.00069	0.00270	

Cell: R1
Comment: MicroVu:
improved establishment of datum B in program

Cell: Z1
Comment: MicroVu:
improved establishment of datum B in program by taking data points in profile

Cell: X11
Comment: MicroVu:
noted poorer capture of datum B

Cell: R16
Comment: MicroVu:
statistics omit two runs of data due to known problems with their acquisition

	A	B	C	D	E	F	G	H	I	J	K
1	0.12589	0.00027	0.00005	0.0004	0.00007	1.04593	90.8097	0.04786	4.9301	0.05143	85.8796

	A	B	C	D	E	F	G	H	I	J	K
1	0.12589	0.00023	0.00003	0.00051	0.00012	1.0459	90.728	0.04538	4.7031	0.05042	86.0248

	A	B	C	D	E	F	G	H	I	J	K
1	0.12594	0.00027	0.00007	0.00055	0.00011	1.04557	90.9122	0.0443	4.7364	0.05118	86.1758

	A	B	C	D	E	F	G	H	I	J	K
1	0.12578	0.0002	0.00004	0.00027	0.00006	1.04599	90.7965	0.04715	4.8257	0.05062	85.9708

	A	B	C	D	E	F	G	H	I	J	K
1	0.12576	0.00023	0.00004	0.00038	0.00008	1.04584	90.8	0.04794	4.9328	0.05115	85.8672

	A	B	C	D	E	F	G	H	I	J	K
1	0.12587	0.00021	0.00003	0.00024	0.00005	1.04597	90.87	0.04513	4.6183	0.04933	86.2517

	A	B	C	D	E	F	G	H	I	J	K
1	0.12581	0.00032	0.00007	0.00046	0.00007	1.04555	90.8163	0.04686	4.8434	0.05099	85.9729

	A	B	C	D	E	F	G	H	I	J	K
1	0.1258	0.00038	0.00009	0.00034	0.00006	1.04538	90.842	0.04372	4.6164	0.05053	86.2256

	A	B	C	D	E	F	G	H	I	J	K
1	0.12577	0.00022	0.00006	0.00035	0.00008	1.0459	90.9215	0.04804	4.8849	0.05082	86.0367

	A	B	C	D	E	F	G	H	I	J	K
1	0.12593	0.00046	0.00009	0.0006	0.00015	1.04536	90.8845	0.04609	4.9232	0.05231	85.9614

	A	B	C	D	E	F	G	H	I	J	K
1	0.12583	0.00018	0.00004	0.00052	0.00011	1.04525	90.8869	0.04519	4.8452	0.052	86.0416

	A	B	C	D	E	F	G	H	I	J	K
1	0.12589	0.00051	0.00011	0.00027	0.00006	1.04552	90.7165	0.04763	4.81	0.05008	85.9064

	A	B	C	D	E	F	G	H	I	J	K
1	0.12588	0.00016	0.00003	0.00056	0.0001	1.04575	90.9753	0.04495	4.9254	0.05315	86.0499

	A	B	C	D	E	F	G	H	I	J	K
1	0.12576	0.00102	0.0002	0.00025	0.00006	1.04589	90.9722	0.04549	4.7708	0.05133	86.2014

	A	B	C	D	E	F	G	H	I	J	K
1	0.12586	0.00041	0.00007	0.00021	0.00006	1.04579	90.8077	0.04394	4.6929	0.05106	86.1148

	A	B	C	D	E	F	G	H	I	J	K
1	0.12592	0.00025	0.00005	0.00083	0.00014	1.04544	90.8261	0.04472	4.7411	0.05075	86.085

	A	B	C	D	E	F	G	H	I	J	K
1	0.12591	0.00043	0.00009	0.00085	0.00017	1.04578	90.8543	0.04898	5.036	0.05191	85.8183

	A	B	C	D	E	F	G	H	I	J	K
1	0.12601	0.00032	0.00006	0.00047	0.00006	1.04592	90.9722	0.0499	5.0251	0.05128	85.9471

	A	B	C	D	E	F	G	H	I	J	K
1	0.12593	0.00022	0.00004	0.0005	0.00009	1.04598	90.8719	0.04616	4.7922	0.05097	86.0797

	A	B	C	D	E	F	G	H	I	J	K
1	0.12591	0.00017	0.00004	0.00033	0.00007	1.0451	90.8407	0.0465	4.7797	0.05044	86.061

	A	B	C	D	E	F	G	H	I	J	K
1	0.12577	0.00019	0.00004	0.00021	0.00006	1.04573	90.7703	0.04707	4.8189	0.05069	85.9514

	A	B	C	D	E	F	G	H	I	J	K
1	0.12592	0.00062	0.0001	0.0002	0.00005	1.04565	90.7169	0.04748	4.833	0.0504	85.884

	A	B	C	D	E	F	G	H	I	J	K
1	0.12584	0.00033	0.00007	0.00063	0.00013	1.04584	90.7153	0.04822	4.8678	0.0501	85.8475

	A	B	C	D	E	F	G	H	I	J	K
1	0.1259	0.00025	0.00006	0.00039	0.0001	1.04572	90.8231	0.04557	4.7322	0.05053	86.0909

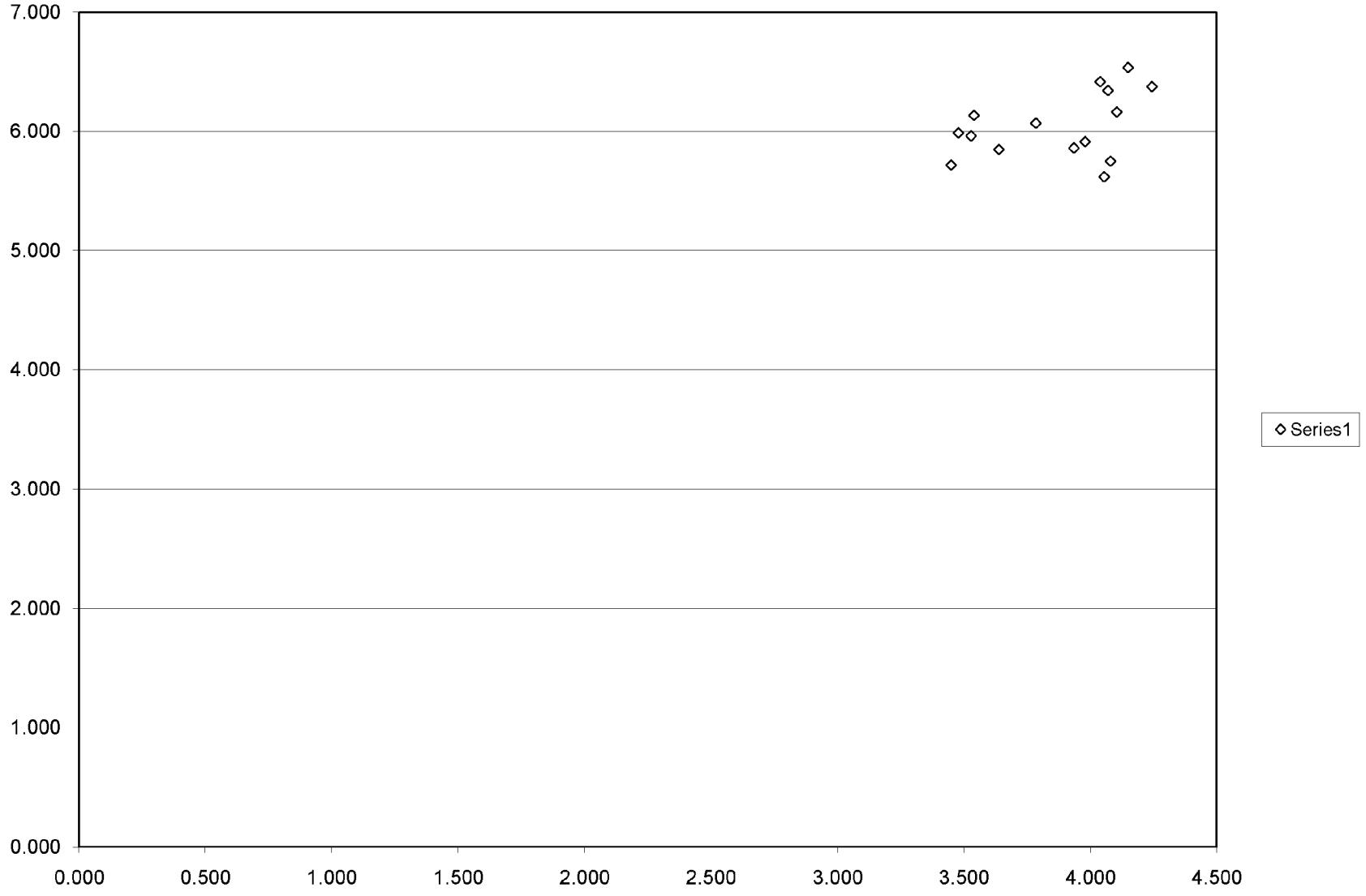
	A	B	C	D	E	F	G	H	I	J	K
1	0.12592	0.00021	0.00004	0.00017	0.00004	1.04608	90.863	0.04685	4.8623	0.05111	86.0007

	A	B	C	D	E	F
1						
2		A1	A2	A3	A4	A5
3	Freebore Diameter Gage Pin	.2075-	.2075-	.2075-	.2075-	.2075-

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1															
2		1	2	3	4	5	6	7	8	9	10	11	12	13	14
3	FL	0.4054	0.4043	0.4077	0.4076	0.4087	0.4043	0.4046	0.4041	0.4062	0.4037	0.4084	0.4076	0.4069	0.4062
4	L1	1.535	***1.215***	1.715	1.725	1.820	1.310	1.305	1.375	1.550	1.355	1.790	1.715	1.720	***1.965***
5	L2	3.785	3.480	3.980	3.935	4.055	3.540	***3.450***	3.640	4.150	3.530	4.040	4.070	4.105	4.245
6															
7	Min TP	2.532	2.578	2.533	2.546	2.559	***2.636***	2.582	2.627	2.577	2.530	2.557	2.551	2.537	2.556
8	Max TP	6.070	5.987	5.914	5.860	***5.620***	6.134	5.718	5.848	***6.535***	5.963	6.416	6.341	6.163	6.376

	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE
1																
2	15	16	17	18	19	20	21	22	23	24			Avg	SD	Max	Min
3	0.4118	0.4081	0.4045	0.4083	0.4033	0.4066	0.4084	0.4081	0.4073	0.4055	0.4078	0.4063				
4	1.850	1.805	1.675	1.925	1.570	1.815	1.880	1.815	1.450	1.800	1.795	1.820	1.665	0.213	1.965	1.215
5	4.080	4.070	3.975	4.180	3.850	4.060	4.140	4.030	***4.365***	4.120	4.025	4.115	3.962	0.245	4.365	3.450
6																
7	***2.515***												2.561	0.034	2.636	2.515
8	5.751												6.046	0.277	6.535	5.620

	AF
1	
2	Range
3	
4	0.750
5	0.915
6	
7	0.121
8	0.916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Series1

	A	B	C	D	E	F	G	H	I	J	K	L	M
1		A1 factory settings	A2 factory settings	A3 factory settings	A4 factory settings	A5 factory settings	A6 factory settings	A7 factory settings	A8 factory settings	A9 factory settings	A10 factory settings	A11 factory settings	A12 factory settings
2	Engagement	0.0230	0.0288	0.0243	0.0216	0.0280	0.0202	0.0215	0.0225	0.0204	0.0226	0.0271	0.0315
3	Overtravel	0.020	0.015	0.019	0.023	0.019	0.022	0.021	0.023	0.023	0.022	0.021	0.020
4	TP1	3.291	2.962	3.609	2.975	3.404	3.548	3.233	3.656	4.000	3.728	2.999	3.969
5	TP2	3.510	2.627	4.342	3.061	2.498	3.514	3.517	3.505	3.731	3.728	3.027	4.151
6	TP3	3.449	2.661	4.004	3.187	2.874	3.460	3.499	3.436	3.532	3.677	2.794	3.928
7	TP4	3.456	2.715	3.219	3.066	2.520	3.399	3.504	3.505	3.328	3.715	2.885	4.161
8	TP5	3.383	2.637	3.332	2.989	2.485	3.434	3.545	3.489	3.389	3.763	2.905	4.110
9	TP6	4.039	2.567	3.341	3.111	2.458	3.490	3.412	3.340	3.244	3.751	2.976	4.087
10	TP7	3.387	3.020	3.174	3.466	2.439	3.461	3.485	3.009	3.969	3.713	3.034	4.106
11	TP8	3.614	2.828	3.354	3.164	2.476	3.500	3.418	3.518	3.318	3.717	2.852	4.136
12	TP9	3.498	2.636	3.350	3.170	2.652	3.540	3.498	3.167	3.240	3.653	2.860	3.966
13	TP10	4.379	2.662	3.254	3.991	2.488	3.504	3.462	3.327	3.066	3.512	3.820	4.070
14	Avg.	3.601	2.732	3.498	3.218	2.629	3.485	3.457	3.395	3.482	3.696	3.015	4.068
15	SD	0.342	0.153	0.383	0.305	0.302	0.047	0.089	0.190	0.319	0.072	0.294	0.084

	N	O	P
1	A13 factory settings	A14 factory settings	A15 factory settings
2	0.0222	0.0269	0.0224
3	0.021	0.024	0.019
4	3.750	3.154	3.827
5	3.831	3.326	3.612
6	3.628	3.052	3.575
7	3.752	3.275	4.121
8	3.869	3.186	3.684
9	3.474	3.128	3.716
10	4.077	3.299	3.656
11	3.717	3.149	3.58
12	3.552	3.059	3.609
13	3.605	2.783	3.477
14	3.726	3.141	3.686
15	0.174	0.157	0.179

Cell: F1
Comment: metrology1:
PM trigger
safety operates hard

Cell: L1
Comment: metrology1:
PM trigger

Cell: M1
Comment: metrology1:
PM trigger

Cell: O1
Comment: metrology1:
PM trigger

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1		**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**	**A10**	**A11**	**A12**	**A13**	**A14**
2	Engagement 1	0.0200	0.0200	0.0198	0.0204	0.0204	0.0200	0.0202	0.0201	0.0201	0.0201	0.0200	0.0200	0.0202	0.0201
3	Engagement 2	0.0201	0.0199	0.0199	0.0204	0.0207	0.0200	0.0201	0.0201	0.0202	0.0201	0.0198	0.0201	0.0204	0.0201
4	Engagement 3	0.0201	0.0200	0.0199	0.0205	0.0207	0.0201	0.0202	0.0201	0.0203	0.0201	0.0198	0.0202	0.0204	0.0200
5	Average:	0.0201	0.0200	0.0199	0.0204	0.0206	0.0200	0.0202	0.0201	0.0202	0.0201	0.0199	0.0201	0.0203	0.0201
6	SD:	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0000	0.0001	0.0000	0.0001	0.0001	0.0001	0.0001
7															
8	TMIS 1	0.003	0.004	0.005	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
9	TMIS 2	0.003	0.004	0.005	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
10	TMIS 3	0.003	0.004	0.005	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.003
11	Average:	0.0030	0.0040	0.0050	0.0030	0.0030	0.0040	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	0.0033	0.0030
12	SD:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0006	0.0000
13	Overtravel	0.028	0.032	0.036	0.026	0.028	0.036	0.028	0.034	0.034	0.032	0.032	0.034	0.031	0.032
14	**MIN**														
15	Trigger Pull 1	2.445	2.512	2.466	2.545	2.531	2.483	2.550	2.754	2.601	2.526	2.541	2.634	2.588	2.466
16	Trigger Pull 2	2.592	2.591	2.516	2.645	2.573	2.592	2.707	2.618	2.439	2.492	2.489	2.513	2.520	2.583
17	Trigger Pull 3	2.538	2.561	2.485	2.458	2.577	2.691	2.590	2.670	2.522	2.499	2.555	2.608	2.504	2.577
18	Trigger Pull 4	2.577	2.585	2.510	2.565	2.543	2.712	2.552	2.568	2.693	2.526	2.601	2.472	2.588	2.542
19	Trigger Pull 5	2.515	2.563	2.535	2.479	2.582	2.620	2.609	2.523	2.482	2.581	2.580	2.550	2.510	2.533
20	Trigger Pull 6	2.431	2.631	2.532	2.525	2.504	2.693	2.558	2.602	2.645	2.561	2.534	2.496	2.596	2.676
21	Trigger Pull 7	2.571	2.635	2.747	2.471	2.693	2.626	2.600	2.569	2.551	2.571	2.588	2.516	2.546	2.466
22	Trigger Pull 8	2.543	2.597	2.504	2.605	2.520	2.659	2.504	2.651	2.607	2.482	2.542	2.640	2.449	2.564
23	Trigger Pull 9	2.577	2.564	2.523	2.560	2.545	2.651	2.553	2.672	2.648	2.583	2.593	2.494	2.533	2.597
24	Trigger Pull 10	2.531	2.539	2.515	2.605	2.526	2.634	2.593	2.640	2.580	2.482	2.543	2.588	2.533	2.558
25	Average:	2.532	2.578	2.533	2.546	2.559	2.636	2.582	2.627	2.577	2.530	2.557	2.551	2.537	2.556
26	SD:	0.055	0.038	0.078	0.063	0.054	0.065	0.054	0.066	0.079	0.041	0.034	0.062	0.046	0.062
27	**MAX**														
28	Trigger Pull 1	5.998	6.036	6.020	5.835	5.461	6.039	5.705	5.758	6.542	6.061	6.366	6.339	6.061	6.364
29	Trigger Pull 2	6.082	5.860	5.853	6.053	5.605	6.120	5.818	5.738	6.534	5.962	6.357	6.384	6.181	6.393
30	Trigger Pull 3	6.003	6.172	5.904	6.080	5.553	6.167	5.631	5.731	6.580	5.830	6.461	6.494	6.053	6.401
31	Trigger Pull 4	6.072	6.024	6.026	5.944	5.562	6.356	5.619	5.675	6.638	5.898	6.638	6.366	6.409	6.405
32	Trigger Pull 5	6.192	6.095	5.942	5.707	5.729	6.061	5.648	5.777	6.547	5.878	6.332	6.401	6.054	6.421
33	Trigger Pull 6	6.090	5.934	5.953	5.696	5.714	6.007	5.854	5.649	6.504	5.947	6.338	6.266	6.018	6.311
34	Trigger Pull 7	6.084	5.894	5.995	6.077	5.718	6.061	5.785	6.205	6.506	5.982	6.488	6.234	6.199	6.331
35	Trigger Pull 8	6.035	5.841	5.936	5.715	5.689	6.019	5.755	5.947	6.477	5.986	6.304	6.300	6.296	6.368
36	Trigger Pull 9	6.061	6.042	5.704	5.725	5.592	6.534	5.682	5.972	6.528	5.982	6.479	6.345	6.267	6.374
37	Trigger Pull 10	6.084	5.971	5.811	5.768	5.572	5.973	5.684	6.026	6.496	6.099	6.396	6.277	6.094	6.390
38	Average:	6.070	5.987	5.914	5.860	5.620	6.134	5.718	5.848	6.535	5.963	6.416	6.341	6.163	6.376
39	SD:	0.055	0.106	0.101	0.163	0.089	0.178	0.081	0.180	0.047	0.081	0.101	0.076	0.129	0.034
40	**Test**														
41	Trigger Pull 1	3.722	3.480	3.638	3.455	3.485	3.481	3.479	3.553	3.444	3.308	3.645	3.463	3.513	3.593
42	Trigger Pull 2	3.652	3.554	3.649	3.442	3.410	3.471	3.481	3.580	3.410	3.384	3.574	3.474	3.515	3.436
43	Trigger Pull 3	3.647	3.577	3.648	3.407	3.408	3.545	3.485	3.522	3.390	3.318	3.589	3.465	3.494	3.555
44	Trigger Pull 4	3.566	3.492	3.642	3.392	3.396	3.516	3.401	3.466	3.412	3.358	3.526	3.529	3.547	3.638

	P	Q	R	S	T	U
1	**A15**	**A16**	**A17**	**A18**	**A19**	**A20**
2	0.0206	0.0201	0.0201	0.0201	0.0205	0.0202
3	0.0206	0.0199	0.0200	0.0203	0.0207	0.0201
4	0.0207	0.0197	0.0200	0.0201	0.0204	0.0201
5	0.0206	0.0199	0.0200	0.0202	0.0205	0.0201
6	0.0001	0.0002	0.0001	0.0001	0.0002	0.0001
7						
8	0.004	0.003	0.003	0.006	0.003	0.003
9	0.004	0.003	0.003	0.006	0.003	0.003
10	0.004	0.003	0.003	0.006	0.003	0.003
11	0.0040	0.0030	0.0030	0.0060	0.0030	0.0030
12	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	0.038	0.036	0.037	0.036	0.036	0.038
14						
15	2.488	2.520	2.569	2.483	2.524	2.597
16	2.445	2.469	2.580	2.506	2.510	2.570
17	2.511	2.432	2.657	2.521	2.535	2.626
18	2.560	2.515	2.541	2.475	2.575	2.593
19	2.496	2.542	2.605	2.541	2.528	2.612
20	2.578	2.572	2.614	2.526	2.541	2.598
21	2.468	2.549	2.550	2.549	2.623	2.587
22	2.610	2.575	2.536	2.516	2.628	2.621
23	2.450	2.518	2.553	2.559	2.544	2.591
24	2.544	2.485	2.573	2.436	2.559	2.679
25	2.515	2.518	2.578	2.511	2.557	2.607
26	0.056	0.045	0.038	0.038	0.041	0.030
27						
28	5.820	5.517	5.991	5.699	5.632	5.809
29	5.782	5.514	6.026	5.886	5.620	5.801
30	5.892	5.537	6.034	5.671	5.685	5.833
31	5.855	5.499	6.038	5.661	5.691	5.885
32	5.620	5.532	6.028	5.515	5.596	5.840
33	5.887	5.531	6.038	5.594	5.712	5.772
34	5.836	5.528	6.011	5.503	5.662	5.782
35	5.793	5.508	6.004	5.420	5.615	5.847
36	5.529	5.506	5.977	6.054	5.599	5.827
37	5.499	5.52	6.004	5.496	5.667	5.866
38	5.751	5.519	6.015	5.650	5.648	5.826
39	0.147	0.013	0.021	0.195	0.041	0.036
40						
41	3.527	3.023	3.712	3.437	3.693	3.401
42	3.550	3.080	3.678	3.490	3.736	3.455
43	3.610	3.069	3.695	3.488	3.709	3.444
44	3.570	3.100	3.709	3.404	3.747	3.428

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
45	Trigger Pull 5	3.484	3.455	3.695	3.390	3.428	3.512	3.477	3.525	3.434	3.347	3.498	3.493	3.467	3.620
46	Trigger Pull 6	3.597	3.485	3.577	3.464	3.382	3.565	3.423	3.536	3.480	3.416	3.557	3.531	3.488	3.553
47	Trigger Pull 7	3.618	3.519	3.640	3.378	3.322	3.462	3.555	3.485	3.423	3.256	3.499	3.562	3.536	3.551
48	Trigger Pull 8	3.601	3.511	3.636	3.374	3.345	3.404	3.480	3.572	3.482	3.374	3.467	3.489	3.497	3.518
49	Trigger Pull 9	3.601	3.575	3.669	3.480	3.346	3.520	3.447	3.506	3.537	3.336	3.503	3.412	3.621	3.618
50	Trigger Pull 10	3.577	3.607	3.717	3.477	3.256	3.445	3.453	3.510	3.436	3.324	3.510	3.569	3.580	3.545
51	Average:	3.607	3.526	3.651	3.426	3.378	3.492	3.468	3.526	3.445	3.342	3.537	3.499	3.526	3.563
52	SD:	0.062	0.050	0.038	0.042	0.064	0.049	0.042	0.036	0.044	0.045	0.054	0.049	0.047	0.059
53	Sear Lift				0.012	0.010				0.011	0.010				0.011

	P	Q	R	S	T	U
45	3.550	3.084	3.701	3.473	3.710	3.452
46	3.595	3.042	3.797	3.373	3.670	3.388
47	3.589	3.020	3.718	3.460	3.682	3.429
48	3.601	3.033	3.785	3.469	3.689	3.411
49	3.581	3.023	3.669	3.418	3.687	3.444
50	3.630	3.074	3.71	3.560	3.642	3.385
51	3.580	3.055	3.717	3.457	3.697	3.424
52	0.031	0.030	0.042	0.053	0.031	0.026
53	0.010				0.010	

Cell: Q1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: R1
Comment: metrology1:
for dry cycle on receiver S7607332

Cell: S1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: T1
Comment: metrology1:
replaced XMP#12 in gun A12 at 500 rds when trigger broke. Gun A13 replaced gun A12 for endurance testing to 1000 rounds.

Cell: U1
Comment: metrology1:
for dry cycle on receiver S7607332 after XMP#17 trigger broke at 5000 cycles

	A	B	C	D	E	F	G	H	I	J
1		**A1**	**A2**	**A3**	**A6**	**A7**	**A8**	**A11**	**A12**	**A13**
2	Engagement 1	0.0200	0.0211	0.0215	0.0204	0.0208	0.0210	0.0216	0.0226	0.0252
3	Engagement 2	0.0201	0.0213	0.0215	0.0204	0.0210	0.0210	0.0216	0.0227	0.0249
4	Engagement 3	0.0201	0.0212	0.0215	0.0206	0.0209	0.0210	0.0216	0.0225	0.0250
5	Average:	0.0201	0.0212	0.0215	0.0205	0.0209	0.0210	0.0216	0.0226	0.0250
6	SD:	0.0001	0.0001	0.0000	0.0001	0.0001	0.0000	0.0000	0.0001	0.0002
7										
8	TMIS 1	0.003	0.007	0.005	0.003	0.004	0.003	0.005	0.004	0.010
9	TMIS 2	0.004	0.006	0.005	0.003	0.004	0.003	0.005	0.004	0.011
10	TMIS 3	0.003	0.006	0.005	0.003	0.004	0.003	0.004	0.004	0.010
11	Average:	0.0033	0.0063	0.0050	0.0030	0.0040	0.0030	0.0047	0.0040	0.0103
12	SD:	0.0006	0.0006	0.0000	0.0000	0.0000	0.0000	0.0006	0.0000	0.0006
13	**Test**									
14	Trigger Pull 1	3.835	3.453	3.809	3.882	3.731	4.019	3.780		3.586
15	Trigger Pull 2	3.630	3.412	3.777	3.942	3.724	4.005	3.926		3.447
16	Trigger Pull 3	3.645	3.424	3.754	3.961	3.763	4.016	3.821		3.490
17	Trigger Pull 4	3.578	3.543	3.715	3.966	3.685	4.063	3.902		3.574
18	Trigger Pull 5	3.772	3.541	3.766	3.917	3.777	3.949	3.717		3.548
19	Trigger Pull 6	3.540	3.509	3.780	3.860	3.730	4.010	3.904		3.483
20	Trigger Pull 7	3.765	3.462	3.774	3.874	3.755	4.036	3.923		3.601
21	Trigger Pull 8	3.727	3.479	3.754	3.778	3.745	4.031	3.780		3.555
22	Trigger Pull 9	3.794	3.287	3.756	3.888	3.806	3.997	3.896		3.520
23	Trigger Pull 10	3.699	3.363	3.697	3.799	3.843	3.960	3.920		3.425
24	Average:	3.699	3.447	3.758	3.887	3.756	4.009	3.857		3.523
25	SD:	0.098	0.080	0.032	0.063	0.045	0.034	0.076		0.060
26	Sear Lift			0.010			0.011			

Cell: I1
Comment: metrology1:
Trigger accidentally broke after measuring engagement and TMIS, but before trigger pull. Trigger assembly 19 replaced trigger assembly 12 on this gun.

Cell: I14
Comment: metrology1:
Trigger accidentally broke after measuring engagement and TMIS, but before trigger pull. Trigger assembly 19 replaced trigger assembly 12 on this gun.

	A	B	C	D	E	F	G	H	I	J	K
1		**A1**	**A2**	**A6**	**A7**	**A11**	**A13**	A16	A17	A18	A20
2	Engagement 1	0.0197	0.0214	0.0205	0.0201	0.0213	0.0252	0.0219	0.0206	0.0219	0.0207
3	Engagement 2	0.0196	0.0213	0.0203	0.0203	0.0215	0.0252	0.0216	0.0205	0.0219	0.0207
4	Engagement 3	0.0196	0.0214	0.0204	0.0203	0.0214	0.0251	0.0216	0.0202	0.0202	0.0210
5	Average:	0.0196	0.0214	0.0204	0.0202	0.0214	0.0252	0.0217	0.0204	0.0213	0.0208
6	SD:	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0010	0.0002
7											
8	TMIS 1	0.003	0.006	0.003	0.004	0.005	0.011	0.005	0.003	0.006	0.004
9	TMIS 2	0.003	0.006	0.003	0.004	0.005	0.011	0.005	0.003	0.006	0.003
10	TMIS 3	0.003	0.006	0.003	0.004	0.004	0.011	0.004	0.003	0.007	0.004
11	Average:	0.0030	0.0060	0.0030	0.0040	0.0047	0.0110	0.0047	0.0030	0.0063	0.0000
12	SD:	0.0000	0.0000	0.0000	0.0000	0.0006	0.0000	0.0006	0.0000	0.0006	0.0007
13	**Test**										
14	Trigger Pull 1	4.255	3.318	4.032	3.858	3.989	3.683	3.513	3.798	3.89	3.422
15	Trigger Pull 2	4.234	3.288	3.965	3.805	4.037	3.845	3.833	4.009	3.929	3.239
16	Trigger Pull 3	4.158	3.248	3.933	3.645	3.966	3.669	3.666	3.84	3.803	3.254
17	Trigger Pull 4	4.172	3.385	3.989	3.863	4.142	3.750	3.578	3.793	3.817	3.331
18	Trigger Pull 5	4.196	3.383	4.044	3.737	4.077	3.622	3.667	3.708	3.749	3.264
19	Trigger Pull 6	4.199	3.379	3.956	3.717	4.075	3.611	3.713	3.866	3.867	3.286
20	Trigger Pull 7	4.164	3.338	3.944	3.785	4.039	3.569	3.704	3.781	3.853	3.24
21	Trigger Pull 8	4.213	3.364	3.917	3.749	3.985	3.648	3.689	3.759	3.804	3.242
22	Trigger Pull 9	4.121	3.328	3.843	3.636	4.048	3.597	3.635	3.768	3.828	3.22
23	Trigger Pull 10	4.175	3.295	3.907	3.871	3.989	3.691	3.626	3.745	3.815	3.235
24	Average:	4.189	3.333	3.953	3.767	4.035	3.669	3.662	3.807	3.836	3.273
25	SD:	0.039	0.046	0.060	0.086	0.054	0.081	0.085	0.084	0.051	0.061
26	Sear Lift		0.012		0.012		0.010				

Cell: H1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: I1
Comment: metrology1:
for dry cycle on receiver S7607332

Cell: J1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: K1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		**A1**	**A6**	**A11**
2	Engagement 1	0.0197	0.0203	0.0218
3	Engagement 2	0.0196	0.0204	0.0216
4	Engagement 3	0.0195	0.0203	0.0215
5	Average:	0.0196	0.0203	0.0216
6	SD:	0.0001	0.0001	0.0002
7				
8	TMIS 1	0.004	0.003	0.005
9	TMIS 2	0.004	0.003	0.005
10	TMIS 3	0.004	0.003	0.005
11	Average:	0.0040	0.0030	0.0050
12	SD:	0.0000	0.0000	0.0000
13	**Test**			
14	Trigger Pull 1	4.346	3.985	3.736
15	Trigger Pull 2	4.364	4.061	3.663
16	Trigger Pull 3	4.276	4.069	3.820
17	Trigger Pull 4	4.384	3.923	3.828
18	Trigger Pull 5	4.295	3.882	3.864
19	Trigger Pull 6	4.218	4.01	3.775
20	Trigger Pull 7	4.263	3.934	3.846
21	Trigger Pull 8	4.279	3.858	3.716
22	Trigger Pull 9	4.249	3.88	3.676
23	Trigger Pull 10	4.296	3.949	3.684
24	Average:	4.297	3.955	3.761
25	SD:	0.053	0.075	0.076

	A	B	C	D	E	F	G	H	I
1		**A1**	**A6**	**A11**	A16	A17	A18	A20	**A20 unable to colect data due to computer malfunction**
2	Engagement 1	0.0205	0.0204	0.0215	0.0202	0.0192	0.0203		
3	Engagement 2	0.0203	0.0204	0.0214	0.0204	0.0199	0.0195		
4	Engagement 3	0.0202	0.0203	0.0214	0.0208	0.0197	0.0193		
5	Average:	0.0203	0.0204	0.0214	0.0205	0.0196	0.0197	#DIV/0!	
6	SD:	0.0002	0.0001	0.0001	0.0003	0.0004	0.0005	#DIV/0!	
7									
8	TMIS 1	0.004	0.003	0.006	0.005	0.005	0.007		
9	TMIS 2	0.004	0.003	0.005	0.004	0.004	0.007		
10	TMIS 3	0.004	0.003	0.006	0.004	0.004	0.007		
11	Average:	0.0040	0.0030	0.0057	0.0043	0.0043	0.0070	#DIV/0!	
12	SD:	0.0000	0.0000	0.0006	0.0006	0.0006	0.0000	#DIV/0!	
13	**Test**								
14	Trigger Pull 1	3.923	4.058	3.478	3.538	3.635	3.653		
15	Trigger Pull 2	4.024	4.115	3.464	3.715	3.52	3.661		
16	Trigger Pull 3	4.127	3.968	3.469	3.631	3.541	3.619		
17	Trigger Pull 4	4.072	4.088	3.420	3.556	3.531	3.673		
18	Trigger Pull 5	4.069	3.989	3.515	3.601	3.418	3.626		
19	Trigger Pull 6	4.107	4.045	3.472	3.447	3.48	3.584		
20	Trigger Pull 7	3.927	4.047	3.493	3.66	3.434	3.597		
21	Trigger Pull 8	4.17	4.043	3.578	3.523	3.571	3.639		
22	Trigger Pull 9	3.949	4.076	3.467	3.595	3.569	3.631		
23	Trigger Pull 10	3.986	4.112	3.504	3.57	3.501	3.656		
24	Average:	4.035	4.054	3.486	3.584	3.520	3.634	#DIV/0!	
25	SD:	0.087	0.048	0.041	0.075	0.065	0.028	#DIV/0!	
26	Sear Lift	0.010	0.011	0.012					

Cell: E1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: F1
Comment: metrology1:
for dry cycle on receiver S7607332

Cell: G1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: H1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D	E	F
1		A16	A17	A18	A20	**A20 unable to collect data due to computer malfunction**
2	Engagement 1	0.0221	0.0194	0.0220		
3	Engagement 2	0.0219	0.0195	0.0220		
4	Engagement 3	0.0220	0.0200	0.0219		
5	Average:	0.0220	0.0196	0.0220	#DIV/0!	
6	SD:	0.0001	0.0003	0.0001	#DIV/0!	
7						
8	TMIS 1	0.004	0.004	0.007		
9	TMIS 2	0.003	0.004	0.006		
10	TMIS 3	0.003	0.004	0.007		
11	Average:	0.0033	0.0040	0.0067	#DIV/0!	
12	SD:	0.0006	0.0000	0.0006	#DIV/0!	
13	**Test**					
14	Trigger Pull 1	3.304	3.173	3.574		
15	Trigger Pull 2	3.206	3.057	3.657		
16	Trigger Pull 3	3.196	3.097	3.588		
17	Trigger Pull 4	3.239	3.045	3.552		
18	Trigger Pull 5	3.245	3.159	3.570		
19	Trigger Pull 6	3.307	3.107	3.648		
20	Trigger Pull 7	3.319	3.146	3.648		
21	Trigger Pull 8	3.314	3.282	3.627		
22	Trigger Pull 9	3.186	3.147	3.642		
23	Trigger Pull 10	3.291	3.396	3.682		
24	Average:	3.261	3.161	3.619	#DIV/0!	
25	SD:	0.052	0.106	0.044	#DIV/0!	

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7607332

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: E1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D	E
1		A16	A17	A18	A20
2	Engagement 1	0.0220	0.0204	0.0218	0.0212
3	Engagement 2	0.0221	0.0205	0.0219	0.0212
4	Engagement 3	0.0222	0.0204	0.0218	0.0211
5	Average:	0.0221	0.0204	0.0218	0.0212
6	SD:	0.0001	0.0001	0.0001	0.0001
7					
8	TMIS 1	0.004	0.005	0.004	0.005
9	TMIS 2	0.004	0.005	0.004	0.004
10	TMIS 3	0.004	0.005	0.004	0.004
11	Average:	0.0040	0.0050	0.0040	0.0043
12	SD:	0.0000	0.0000	0.0000	0.0006
13	**Test**				
14	Trigger Pull 1	3.227	3.453	3.682	3.4
15	Trigger Pull 2	3.228	3.439	3.703	3.376
16	Trigger Pull 3	3.134	3.328	3.561	3.22
17	Trigger Pull 4	3.231	3.346	3.578	3.403
18	Trigger Pull 5	3.167	3.353	3.603	3.316
19	Trigger Pull 6	3.139	3.358	3.681	3.248
20	Trigger Pull 7	3.188	3.376	3.576	3.381
21	Trigger Pull 8	3.185	3.433	3.669	3.296
22	Trigger Pull 9	3.228	3.445	3.532	3.331
23	Trigger Pull 10	3.191	3.426	3.612	3.226
24	Average:	3.192	3.396	3.620	3.320
25	SD:	0.037	0.048	0.060	0.071

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7607332

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: E1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		A16	A18	A20
2	Engagement 1	0.0219	0.0217	0.0216
3	Engagement 2	0.0216	0.0220	0.0213
4	Engagement 3	0.0214	0.0220	0.0212
5	Average:	0.0216	0.0219	0.0214
6	SD:	0.0003	0.0002	0.0002
7				
8	TMIS 1	0.003	0.008	0.004
9	TMIS 2	0.003	0.008	0.004
10	TMIS 3	0.003	0.009	0.004
11	Average:	0.0030	0.0083	0.0040
12	SD:	0.0000	0.0006	0.0000
13	**Test**			
14	Trigger Pull 1	3.189	3.507	3.12
15	Trigger Pull 2	3.185	3.539	3.186
16	Trigger Pull 3	3.255	3.4	3.133
17	Trigger Pull 4	3.278	3.401	3.196
18	Trigger Pull 5	3.235	3.486	3.218
19	Trigger Pull 6	3.264	3.409	3.164
20	Trigger Pull 7	3.278	3.425	3.174
21	Trigger Pull 8	3.384	3.454	3.007
22	Trigger Pull 9	3.421	3.435	3.062
23	Trigger Pull 10	3.209	3.402	3.083
24	Average:	3.270	3.446	3.134
25	SD:	0.078	0.049	0.067

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		A16	A18	A20
2	Engagement 1	0.0219	0.0222	0.0211
3	Engagement 2	0.0218	0.0222	0.0211
4	Engagement 3	0.0217	0.0222	0.0210
5	Average:	0.0218	0.0222	0.0211
6	SD:	0.0001	0.0000	0.0001
7				
8	TMIS 1	0.005	0.009	0.005
9	TMIS 2	0.004	0.009	0.004
10	TMIS 3	0.004	0.009	0.005
11	Average:	0.0043	0.0090	0.0047
12	SD:	0.0006	0.0000	0.0006
13	**Test**			
14	Trigger Pull 1	3.141	3.608	3.236
15	Trigger Pull 2	2.896	3.555	3.246
16	Trigger Pull 3	2.845	3.553	3.391
17	Trigger Pull 4	2.948	3.558	3.185
18	Trigger Pull 5	2.95	3.56	3.241
19	Trigger Pull 6	2.92	3.572	3.223
20	Trigger Pull 7	2.899	3.615	3.269
21	Trigger Pull 8	2.953	3.585	3.241
22	Trigger Pull 9	2.903	3.573	3.212
23	Trigger Pull 10	2.874	3.559	3.345
24	Average:	2.933	3.574	3.259
25	SD:	0.081	0.022	0.063

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		A16	A18	A20
2	Engagement 1	0.0214	0.0223	0.0221
3	Engagement 2	0.0213	0.0221	0.0202
4	Engagement 3	0.0213	0.0219	0.0222
5	Average:	0.0213	0.0221	0.0215
6	SD:	0.0001	0.0002	0.0011
7				
8	TMIS 1	0.004	0.009	0.004
9	TMIS 2	0.004	0.009	0.004
10	TMIS 3	0.004	0.010	0.005
11	Average:	0.0040	0.0093	0.0043
12	SD:	0.0000	0.0006	0.0006
13	**Test**			
14	Trigger Pull 1	2.988	3.414	3.092
15	Trigger Pull 2	2.999	3.408	3.197
16	Trigger Pull 3	2.871	3.353	3.134
17	Trigger Pull 4	2.838	3.351	3.124
18	Trigger Pull 5	2.838	3.439	3.164
19	Trigger Pull 6	2.951	3.442	3.159
20	Trigger Pull 7	2.999	3.369	3.189
21	Trigger Pull 8	3.004	3.389	3.142
22	Trigger Pull 9	2.926	3.372	3.166
23	Trigger Pull 10	2.973	3.471	3.149
24	Average:	2.939	3.401	3.152
25	SD:	0.067	0.041	0.031

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		A16	A18	A20
2	Engagement 1	0.0215	0.0219	0.0219
3	Engagement 2	0.0212	0.0218	0.0219
4	Engagement 3	0.0213	0.0217	0.0217
5	Average:	0.0213	0.0218	0.0218
6	SD:	0.0002	0.0001	0.0001
7				
8	TMIS 1	0.004	0.009	0.005
9	TMIS 2	0.004	0.008	0.004
10	TMIS 3	0.004	0.009	0.004
11	Average:	0.0040	0.0087	0.0043
12	SD:	0.0000	0.0006	0.0006
13	**Test**			
14	Trigger Pull 1	3.101	3.524	3.279
15	Trigger Pull 2	3.023	3.481	3.218
16	Trigger Pull 3	2.953	3.477	3.200
17	Trigger Pull 4	3.009	3.446	3.254
18	Trigger Pull 5	2.982	3.591	3.231
19	Trigger Pull 6	3.009	3.463	3.253
20	Trigger Pull 7	2.980	3.309	3.337
21	Trigger Pull 8	2.985	3.493	3.265
22	Trigger Pull 9	3.020	3.500	3.296
23	Trigger Pull 10	2.988	3.436	3.297
24	Average:	3.005	3.472	3.263
25	SD:	0.040	0.072	0.041

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		A16	A18	A20
2	Engagement 1	0.0219	0.0220	0.0219
3	Engagement 2	0.0219	0.0222	0.0217
4	Engagement 3	0.0218	0.0220	0.0216
5	Average:	0.0219	0.0221	0.0217
6	SD:	0.0001	0.0001	0.0002
7				
8	TMIS 1	0.005	0.009	0.005
9	TMIS 2	0.004	0.009	0.005
10	TMIS 3	0.004	0.009	0.005
11	Average:	0.0043	0.0090	0.0050
12	SD:	0.0006	0.0000	0.0000
13	**Test**			
14	Trigger Pull 1	3.32	3.487	3.324
15	Trigger Pull 2	3.324	3.442	3.399
16	Trigger Pull 3	3.358	3.413	3.449
17	Trigger Pull 4	3.204	3.439	3.427
18	Trigger Pull 5	3.255	3.414	3.602
19	Trigger Pull 6	3.166	3.414	3.453
20	Trigger Pull 7	3.258	3.387	3.466
21	Trigger Pull 8	3.308	3.447	3.38
22	Trigger Pull 9	3.253	3.479	3.629
23	Trigger Pull 10	3.295	3.484	3.68
24	Average:	3.274	3.441	3.481
25	SD:	0.059	0.034	0.117

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D
1		A16	A18	A20
2	Engagement 1	0.0215	0.0213	0.0217
3	Engagement 2	0.0213	0.0212	0.0216
4	Engagement 3	0.0214	0.0215	0.0217
5	Average:	0.0214	0.0213	0.0217
6	SD:	0.0001	0.0002	0.0001
7				
8	TMIS 1	0.005	0.005	0.005
9	TMIS 2	0.004	0.004	0.006
10	TMIS 3	0.005	0.004	0.005
11	Average:	0.0047	0.0043	0.0055
12	SD:	0.0006	0.0006	0.0005
13	**Test**			
14	Trigger Pull 1	3.344	3.542	3.502
15	Trigger Pull 2	3.255	3.598	3.53
16	Trigger Pull 3	3.286	3.56	3.433
17	Trigger Pull 4	3.251	3.561	3.499
18	Trigger Pull 5	3.196	3.373	3.584
19	Trigger Pull 6	3.214	3.509	3.516
20	Trigger Pull 7	3.186	3.485	3.504
21	Trigger Pull 8	3.185	3.511	3.61
22	Trigger Pull 9	3.207	3.453	3.493
23	Trigger Pull 10	3.133	3.42	3.59
24	Average:	3.226	3.501	3.526
25	SD:	0.060	0.070	0.054

Cell: B1
Comment: metrology1:
for dry cycle on receiver S7606985

Cell: C1
Comment: metrology1:
for dry cycle on receiver S7608698

Cell: D1
Comment: metrology1:
for dry cycle on receiver S7608698

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.291	0.023	0	0.032	0.054	
5			2	3.51	0.023	0	0.032	0.057	
6			3	3.449	0.022	0	0.032	0.054	
7			4	3.456	0.022	0	0.032	0.056	
8			5	3.383	0.023	0	0.031	0.055	
9			6	4.039	0.021	0	0.031	0.06	
10			7	3.387	0.022	0	0.032	0.053	
11			8	3.614	0.021	0	0.032	0.055	
12			9	3.498	0.021	0	0.032	0.053	
13			10	4.379	0.023	0	0.031	0.068	
14			Avg:	3.601	0.022	0	0.032	0.057	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.601	0.022	0	0.032	0.057	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A3 MIN-2								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.998	0.019	0	0.028	0.072	
5			2	6.082	0.021	0	0.028	0.08	
6			3	6.003	0.018	0	0.028	0.07	
7			4	6.072	0.019	0	0.028	0.071	
8			5	6.192	0.022	0	0.027	0.085	
9			6	6.09	0.021	0	0.027	0.081	
10			7	6.084	0.018	0	0.027	0.071	
11			8	6.035	0.019	0	0.027	0.075	
12			9	6.061	0.022	0	0.027	0.085	
13			10	6.084	0.018	0	0.027	0.07	
14			Avg:	6.07	0.02	0	0.027	0.076	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.07	0.02	0	0.027	0.076	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.58	0.015	0	0.035	0.029	
5			2	2.628	0.015	0	0.035	0.029	
6			3	2.597	0.014	0	0.035	0.027	
7			4	2.603	0.016	0	0.035	0.03	
8			5	2.805	0.014	0	0.035	0.029	
9			6	2.599	0.015	0	0.035	0.028	
10			7	2.523	0.017	0	0.035	0.029	
11			8	2.596	0.016	0	0.035	0.029	
12			9	2.591	0.015	0	0.035	0.027	
13			10	2.836	0.015	0	0.035	0.031	
14			Avg:	2.636	0.015	0	0.035	0.029	0.00 ms
15									
16	XR100 DAT								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18				[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1						
20			2						
21			3						
22			4						
23			5						
24			6						
25			7						
26			8						
27			9						
28			10						
29			Avg:	0	0	0	0	0	0.00 ms
30									
31	XR100 DATA A1 XMP1								
32	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
33	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
34	Single Action		1	6.701	0.02	0	0.017	0.085	
35			2	6.622	0.019	0	0.019	0.077	
36			3	6.388	0.018	0	0.028	0.074	
37			4	6.409	0.02	0	0.027	0.079	
38			5	6.295	0.019	0	0.028	0.076	
39			6	6.62	0.021	0	0.021	0.088	
40			7	6.388	0.021	0	0.028	0.083	
41			8	6.538	0.02	0	0.028	0.083	
42			9	6.531	0.022	0	0.022	0.09	

	A	B	C	D	E	F	G	H	I
43			10	6.32	0.018	0	0.028	0.073	
44			Avg:	6.481	0.02	0	0.025	0.081	0.00 ms
45									
46									
47	TOTAL AVG								
48	Single Action			3.039	0.012	0	0.02	0.037	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A3 MIN-2								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.445	0.015	0	0.035	0.026	
5			2	2.592	0.014	0	0.035	0.025	
6			3	2.538	0.015	0	0.035	0.027	
7			4	2.577	0.016	0	0.035	0.028	
8			5	2.515	0.014	0	0.035	0.024	
9			6	2.431	0.016	0	0.035	0.027	
10			7	2.571	0.014	0	0.035	0.025	
11			8	2.543	0.014	0	0.035	0.024	
12			9	2.577	0.014	0	0.035	0.024	
13			10	2.531	0.014	0	0.035	0.024	
14			Avg:	2.532	0.015	0	0.035	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.532	0.015	0	0.035	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.58	0.015	0	0.035	0.029	
5			2	2.628	0.015	0	0.035	0.029	
6			3	2.597	0.014	0	0.035	0.027	
7			4	2.603	0.016	0	0.035	0.03	
8			5	2.805	0.014	0	0.035	0.029	
9			6	2.599	0.015	0	0.035	0.028	
10			7	2.523	0.017	0	0.035	0.029	
11			8	2.596	0.016	0	0.035	0.029	
12			9	2.591	0.015	0	0.035	0.027	
13			10	2.836	0.015	0	0.035	0.031	
14			Avg:	2.636	0.015	0	0.035	0.029	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.722	0.015	0	0.039	0.035	
5			2	3.652	0.015	0	0.04	0.034	
6			3	3.647	0.018	0	0.039	0.04	
7			4	3.566	0.015	0	0.039	0.034	
8			5	3.484	0.015	0	0.039	0.033	
9			6	3.597	0.016	0	0.04	0.035	
10			7	3.618	0.015	0	0.04	0.034	
11			8	3.601	0.017	0	0.04	0.038	
12			9	3.601	0.018	0	0.039	0.04	
13			10	3.577	0.015	0	0.039	0.034	
14			Avg:	3.607	0.016	0	0.039	0.036	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.607	0.016	0	0.039	0.036	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.728	0.02	0	0.034	0.045	
5			2	3.728	0.02	0	0.033	0.046	
6			3	3.677	0.02	0	0.034	0.046	
7			4	3.715	0.019	0	0.034	0.044	
8			5	3.763	0.021	0	0.033	0.049	
9			6	3.751	0.018	0	0.034	0.043	
10			7	3.713	0.019	0	0.034	0.045	
11			8	3.717	0.018	0	0.034	0.043	
12			9	3.653	0.018	0	0.034	0.043	
13			10	3.512	0.019	0	0.034	0.044	
14			Avg:	3.696	0.019	0	0.034	0.045	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.696	0.019	0	0.034	0.045	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.061	0.019	0	0.029	0.071	
5			2	5.962	0.018	0	0.029	0.066	
6			3	5.83	0.019	0	0.029	0.069	
7			4	5.898	0.018	0	0.029	0.065	
8			5	5.878	0.017	0	0.029	0.065	
9			6	5.947	0.02	0	0.029	0.074	
10			7	5.982	0.018	0	0.029	0.068	
11			8	5.986	0.021	0	0.029	0.079	
12			9	5.982	0.019	0	0.029	0.073	
13			10	6.099	0.02	0	0.029	0.076	
14			Avg:	5.963	0.019	0	0.029	0.071	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.963	0.019	0	0.029	0.071	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.526	0.014	0	0.038	0.025	
5			2	2.492	0.014	0	0.037	0.025	
6			3	2.499	0.015	0	0.037	0.027	
7			4	2.526	0.014	0	0.038	0.024	
8			5	2.581	0.015	0	0.037	0.026	
9			6	2.561	0.014	0	0.039	0.025	
10			7	2.571	0.015	0	0.037	0.026	
11			8	2.482	0.014	0	0.038	0.024	
12			9	2.583	0.015	0	0.037	0.026	
13			10	2.482	0.015	0	0.037	0.026	
14			Avg:	2.53	0.015	0	0.038	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.53	0.015	0	0.038	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.308	0.017	0	0.039	0.039	
5			2	3.384	0.018	0	0.039	0.04	
6			3	3.318	0.016	0	0.039	0.035	
7			4	3.358	0.016	0	0.039	0.036	
8			5	3.347	0.018	0	0.039	0.04	
9			6	3.416	0.018	0	0.04	0.04	
10			7	3.256	0.016	0	0.038	0.036	
11			8	3.374	0.018	0	0.039	0.04	
12			9	3.336	0.017	0	0.038	0.038	
13			10	3.324	0.016	0	0.039	0.036	
14			Avg:	3.342	0.017	0	0.039	0.038	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.342	0.017	0	0.039	0.038	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.999	0.025	0	0.029	0.056	
5			2	3.027	0.023	0	0.029	0.053	
6			3	2.794	0.023	0	0.028	0.053	
7			4	2.885	0.024	0	0.028	0.055	
8			5	2.905	0.023	0	0.028	0.051	
9			6	2.976	0.023	0	0.029	0.052	
10			7	3.034	0.024	0	0.028	0.057	
11			8	2.852	0.022	0	0.028	0.05	
12			9	2.86	0.022	0	0.028	0.049	
13			10	3.82	0.021	0	0.027	0.059	
14			Avg:	3.015	0.023	0	0.028	0.054	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.015	0.023	0	0.028	0.054	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A11 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.366	0.02	0	0.03	0.078	
5			2	6.357	0.019	0	0.029	0.076	
6			3	6.461	0.02	0	0.029	0.08	
7			4	6.638	0.022	0	0.029	0.089	
8			5	6.332	0.023	0	0.029	0.091	
9			6	6.338	0.022	0	0.029	0.089	
10			7	6.488	0.022	0	0.029	0.088	
11			8	6.304	0.019	0	0.03	0.076	
12			9	6.479	0.019	0	0.029	0.075	
13			10	6.396	0.019	0	0.029	0.076	
14			Avg:	6.416	0.021	0	0.029	0.082	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.416	0.021	0	0.029	0.082	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A11 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.541	0.014	0	0.041	0.025	
5			2	2.489	0.015	0	0.04	0.025	
6			3	2.555	0.014	0	0.042	0.025	
7			4	2.601	0.014	0	0.041	0.025	
8			5	2.58	0.014	0	0.041	0.025	
9			6	2.534	0.016	0	0.041	0.027	
10			7	2.588	0.015	0	0.041	0.026	
11			8	2.542	0.014	0	0.041	0.025	
12			9	2.593	0.014	0	0.041	0.025	
13			10	2.543	0.014	0	0.041	0.025	
14			Avg:	2.557	0.014	0	0.041	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.557	0.014	0	0.041	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.645	0.016	0	0.041	0.038	
5			2	3.574	0.016	0	0.042	0.038	
6			3	3.589	0.018	0	0.042	0.043	
7			4	3.526	0.016	0	0.043	0.038	
8			5	3.498	0.017	0	0.042	0.038	
9			6	3.557	0.018	0	0.042	0.042	
10			7	3.499	0.018	0	0.042	0.041	
11			8	3.467	0.018	0	0.041	0.04	
12			9	3.503	0.016	0	0.042	0.036	
13			10	3.51	0.018	0	0.042	0.041	
14			Avg:	3.537	0.017	0	0.042	0.04	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.537	0.017	0	0.042	0.04	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A11 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.969	0.03	0	0.025	0.081	
5			2	4.151	0.028	0	0.027	0.079	
6			3	3.928	0.029	0	0.027	0.077	
7			4	4.161	0.028	0	0.026	0.079	
8			5	4.11	0.028	0	0.026	0.079	
9			6	4.087	0.028	0	0.028	0.077	
10			7	4.106	0.029	0	0.025	0.081	
11			8	4.136	0.028	0	0.027	0.079	
12			9	3.966	0.029	0	0.026	0.079	
13			10	4.07	0.028	0	0.026	0.078	
14			Avg:	4.068	0.029	0	0.026	0.079	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.068	0.029	0	0.026	0.079	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.339	0.02	0	0.029	0.082	
5			2	6.384	0.023	0	0.023	0.096	
6			3	6.494	0.021	0	0.021	0.087	
7			4	6.366	0.023	0	0.023	0.094	
8			5	6.401	0.021	0	0.021	0.089	
9			6	6.266	0.02	0	0.029	0.083	
10			7	6.234	0.025	0	0.025	0.1	
11			8	6.3	0.02	0	0.029	0.082	
12			9	6.345	0.021	0	0.021	0.087	
13			10	6.277	0.02	0	0.029	0.083	
14			Avg:	6.341	0.021	0	0.025	0.088	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.341	0.021	0	0.025	0.088	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.634	0.017	0	0.037	0.032	
5			2	2.513	0.017	0	0.037	0.031	
6			3	2.608	0.016	0	0.038	0.029	
7			4	2.472	0.018	0	0.038	0.031	
8			5	2.55	0.018	0	0.038	0.032	
9			6	2.496	0.016	0	0.038	0.028	
10			7	2.516	0.017	0	0.038	0.031	
11			8	2.64	0.018	0	0.038	0.033	
12			9	2.494	0.016	0	0.038	0.03	
13			10	2.588	0.018	0	0.037	0.033	
14			Avg:	2.551	0.017	0	0.038	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.551	0.017	0	0.038	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.463	0.017	0	0.038	0.042	
5			2	3.474	0.017	0	0.038	0.042	
6			3	3.465	0.017	0	0.038	0.042	
7			4	3.529	0.019	0	0.038	0.046	
8			5	3.493	0.017	0	0.038	0.042	
9			6	3.531	0.017	0	0.038	0.042	
10			7	3.562	0.02	0	0.038	0.048	
11			8	3.489	0.017	0	0.038	0.042	
12			9	3.412	0.018	0	0.038	0.042	
13			10	3.569	0.018	0	0.037	0.045	
14			Avg:	3.499	0.018	0	0.038	0.043	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.499	0.018	0	0.038	0.043	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.632	0.019	0	0.029	0.065	
5			2	5.62	0.019	0	0.029	0.066	
6			3	5.685	0.018	0	0.028	0.064	
7			4	5.691	0.018	0	0.028	0.065	
8			5	5.596	0.022	0	0.028	0.077	
9			6	5.712	0.018	0	0.029	0.064	
10			7	5.662	0.021	0	0.028	0.075	
11			8	5.615	0.017	0	0.028	0.062	
12			9	5.599	0.017	0	0.028	0.061	
13			10	5.667	0.02	0	0.028	0.071	
14			Avg:	5.648	0.019	0	0.028	0.067	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.648	0.019	0	0.028	0.067	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.524	0.014	0	0.039	0.025	
5			2	2.51	0.014	0	0.038	0.025	
6			3	2.535	0.014	0	0.039	0.024	
7			4	2.575	0.013	0	0.038	0.024	
8			5	2.528	0.013	0	0.039	0.023	
9			6	2.541	0.014	0	0.039	0.025	
10			7	2.623	0.015	0	0.038	0.027	
11			8	2.628	0.014	0	0.039	0.026	
12			9	2.544	0.014	0	0.038	0.025	
13			10	2.559	0.015	0	0.038	0.027	
14			Avg:	2.557	0.014	0	0.039	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.557	0.014	0	0.039	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.693	0.017	0	0.041	0.042	
5			2	3.736	0.018	0	0.04	0.043	
6			3	3.709	0.02	0	0.04	0.046	
7			4	3.747	0.019	0	0.039	0.047	
8			5	3.71	0.017	0	0.041	0.041	
9			6	3.67	0.017	0	0.041	0.042	
10			7	3.682	0.017	0	0.041	0.04	
11			8	3.689	0.017	0	0.041	0.04	
12			9	3.687	0.017	0	0.04	0.041	
13			10	3.642	0.018	0	0.04	0.044	
14			Avg:	3.697	0.018	0	0.04	0.043	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.697	0.018	0	0.04	0.043	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.75	0.021	0	0.029	0.056	
5			2	3.831	0.022	0	0.03	0.057	
6			3	3.628	0.022	0	0.029	0.056	
7			4	3.752	0.02	0	0.03	0.051	
8			5	3.869	0.022	0	0.029	0.057	
9			6	3.474	0.02	0	0.03	0.049	
10			7	4.077	0.021	0	0.03	0.059	
11			8	3.717	0.023	0	0.029	0.058	
12			9	3.552	0.021	0	0.029	0.051	
13			10	3.605	0.02	0	0.029	0.051	
14			Avg:	3.726	0.021	0	0.029	0.055	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.726	0.021	0	0.029	0.055	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A13 MAX								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.061	0.022	0	0.031	0.089	
5			2	6.181	0.022	0.005	0.031	0.089	
6			3	6.053	0.026	0	0.032	0.102	
7			4	6.409	0.022	0	0.031	0.094	
8			5	6.054	0.022	0	0.031	0.09	
9			6	6.018	0.025	0	0.032	0.098	
10			7	6.199	0.023	0	0.031	0.094	
11			8	6.296	0.026	0	0.031	0.107	
12			9	6.267	0.023	0	0.031	0.092	
13			10	6.094	0.023	0	0.032	0.093	
14			Avg:	6.163	0.023	0.001	0.031	0.095	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.163	0.023	0.001	0.031	0.095	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.588	0.018	0	0.04	0.031	
5			2	2.52	0.018	0	0.04	0.031	
6			3	2.504	0.018	0	0.041	0.03	
7			4	2.588	0.017	0	0.04	0.029	
8			5	2.51	0.017	0	0.041	0.028	
9			6	2.596	0.017	0	0.041	0.029	
10			7	2.546	0.018	0	0.041	0.031	
11			8	2.449	0.016	0	0.041	0.028	
12			9	2.533	0.017	0	0.04	0.03	
13			10	2.533	0.017	0	0.041	0.029	
14			Avg:	2.537	0.017	0	0.041	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.537	0.017	0	0.041	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.513	0.02	0	0.043	0.051	
5			2	3.515	0.02	0	0.043	0.05	
6			3	3.494	0.02	0	0.043	0.05	
7			4	3.547	0.02	0	0.043	0.051	
8			5	3.467	0.02	0	0.043	0.051	
9			6	3.488	0.022	0	0.043	0.054	
10			7	3.536	0.02	0	0.043	0.052	
11			8	3.497	0.022	0	0.043	0.055	
12			9	3.621	0.02	0	0.043	0.051	
13			10	3.58	0.02	0	0.043	0.051	
14			Avg:	3.526	0.02	0	0.043	0.052	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.526	0.02	0	0.043	0.052	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.154	0.024	0.009	0.033	0.052	
5			2	3.326	0.025	0.011	0.032	0.056	
6			3	3.052	0.024	0.009	0.032	0.05	
7			4	3.275	0.024	0.009	0.033	0.055	
8			5	3.186	0.024	0.009	0.033	0.053	
9			6	3.128	0.025	0.009	0.032	0.054	
10			7	3.299	0.024	0	0.032	0.056	
11			8	3.149	0.026	0	0.032	0.057	
12			9	3.059	0.024	0.009	0.032	0.052	
13			10	2.783	0.024	0	0.033	0.048	
14			Avg:	3.141	0.024	0.007	0.032	0.053	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.141	0.024	0.007	0.032	0.053	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A14 MAX								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.364	0.022	0	0.027	0.088	
5			2	6.393	0.02	0	0.027	0.079	
6			3	6.401	0.018	0	0.027	0.073	
7			4	6.405	0.019	0	0.027	0.076	
8			5	6.421	0.019	0	0.027	0.075	
9			6	6.311	0.018	0	0.027	0.073	
10			7	6.331	0.018	0	0.027	0.073	
11			8	6.368	0.021	0	0.027	0.084	
12			9	6.374	0.019	0	0.027	0.077	
13			10	6.39	0.019	0	0.027	0.075	
14			Avg:	6.376	0.019	0	0.027	0.077	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.376	0.019	0	0.027	0.077	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.466	0.016	0	0.04	0.028	
5			2	2.583	0.016	0	0.039	0.029	
6			3	2.577	0.015	0	0.039	0.027	
7			4	2.542	0.015	0	0.04	0.028	
8			5	2.533	0.016	0	0.039	0.029	
9			6	2.676	0.017	0	0.039	0.031	
10			7	2.466	0.015	0	0.039	0.026	
11			8	2.564	0.017	0	0.039	0.03	
12			9	2.597	0.015	0	0.04	0.027	
13			10	2.558	0.015	0	0.039	0.027	
14			Avg:	2.556	0.016	0	0.039	0.028	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.556	0.016	0	0.039	0.028	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.593	0.017	0.005	0.039	0.041	
5			2	3.436	0.016	0	0.039	0.04	
6			3	3.555	0.018	0	0.039	0.045	
7			4	3.638	0.017	0	0.039	0.042	
8			5	3.62	0.016	0	0.039	0.04	
9			6	3.553	0.017	0	0.039	0.041	
10			7	3.551	0.016	0	0.039	0.04	
11			8	3.518	0.016	0	0.039	0.041	
12			9	3.618	0.016	0	0.039	0.04	
13			10	3.545	0.017	0	0.039	0.041	
14			Avg:	3.563	0.017	0.001	0.039	0.041	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.563	0.017	0.001	0.039	0.041	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.827	0.022	0	0.028	0.058	
5			2	3.612	0.021	0	0.029	0.052	
6			3	3.575	0.022	0	0.029	0.053	
7			4	4.121	0.021	0	0.029	0.06	
8			5	3.684	0.021	0	0.029	0.051	
9			6	3.716	0.022	0	0.029	0.055	
10			7	3.656	0.021	0	0.029	0.052	
11			8	3.58	0.021	0	0.029	0.049	
12			9	3.609	0.022	0	0.029	0.054	
13			10	3.477	0.022	0	0.029	0.053	
14			Avg:	3.686	0.022	0	0.029	0.054	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.686	0.022	0	0.029	0.054	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.82	0.018	0	0.033	0.069	
5			2	5.782	0.018	0	0.033	0.066	
6			3	5.892	0.018	0	0.033	0.071	
7			4	5.855	0.019	0	0.033	0.071	
8			5	5.62	0.018	0	0.033	0.064	
9			6	5.887	0.019	0	0.033	0.071	
10			7	5.836	0.019	0	0.033	0.07	
11			8	5.793	0.019	0	0.033	0.069	
12			9	5.529	0.021	0	0.033	0.075	
13			10	5.499	0.018	0	0.033	0.063	
14			Avg:	5.751	0.019	0	0.033	0.069	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.751	0.019	0	0.033	0.069	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.488	0.016	0	0.042	0.028	
5			2	2.445	0.016	0	0.043	0.027	
6			3	2.511	0.017	0	0.043	0.03	
7			4	2.56	0.015	0	0.043	0.027	
8			5	2.496	0.017	0	0.042	0.03	
9			6	2.578	0.017	0	0.043	0.03	
10			7	2.468	0.015	0	0.042	0.027	
11			8	2.61	0.016	0	0.043	0.029	
12			9	2.45	0.015	0	0.043	0.025	
13			10	2.544	0.015	0	0.043	0.027	
14			Avg:	2.515	0.016	0	0.043	0.028	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.515	0.016	0	0.043	0.028	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.527	0.018	0	0.043	0.043	
5			2	3.55	0.017	0	0.044	0.04	
6			3	3.61	0.017	0	0.044	0.042	
7			4	3.57	0.016	0	0.043	0.04	
8			5	3.55	0.016	0	0.044	0.04	
9			6	3.595	0.017	0	0.043	0.041	
10			7	3.589	0.018	0	0.043	0.044	
11			8	3.601	0.018	0	0.042	0.044	
12			9	3.581	0.019	0	0.043	0.045	
13			10	3.63	0.019	0	0.043	0.047	
14			Avg:	3.58	0.018	0	0.043	0.043	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.58	0.018	0	0.043	0.043	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.517	0.016	0.004	0.031	0.058	
5			2	5.514	0.017	0	0.031	0.062	
6			3	5.537	0.018	0.005	0.031	0.063	
7			4	5.499	0.016	0.005	0.031	0.058	
8			5	5.532	0.016	0.004	0.031	0.058	
9			6	5.531	0.019	0	0.031	0.067	
10			7	5.528	0.017	0	0.031	0.059	
11			8	5.508	0.017	0	0.031	0.061	
12			9	5.506	0.016	0.004	0.031	0.058	
13			10	5.52	0.016	0.005	0.031	0.058	
14			Avg:	5.519	0.017	0.003	0.031	0.06	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.519	0.017	0.003	0.031	0.06	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.52	0.014	0	0.039	0.026	
5			2	2.469	0.013	0	0.04	0.024	
6			3	2.432	0.015	0	0.04	0.026	
7			4	2.515	0.013	0	0.04	0.024	
8			5	2.542	0.014	0	0.04	0.026	
9			6	2.572	0.015	0	0.04	0.028	
10			7	2.549	0.013	0	0.04	0.024	
11			8	2.575	0.013	0	0.04	0.024	
12			9	2.518	0.013	0	0.04	0.024	
13			10	2.485	0.012	0	0.04	0.023	
14			Avg:	2.518	0.014	0	0.04	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.518	0.014	0	0.04	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.023	0.014	0	0.04	0.029	
5			2	3.08	0.016	0	0.04	0.034	
6			3	3.069	0.017	0	0.04	0.035	
7			4	3.1	0.014	0	0.041	0.03	
8			5	3.084	0.016	0	0.04	0.033	
9			6	3.042	0.016	0	0.04	0.033	
10			7	3.02	0.014	0	0.04	0.029	
11			8	3.033	0.016	0	0.04	0.032	
12			9	3.023	0.015	0	0.04	0.031	
13			10	3.074	0.015	0	0.041	0.03	
14			Avg:	3.055	0.015	0	0.04	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.055	0.015	0	0.04	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.991	0.019	0	0.029	0.073	
5			2	6.026	0.023	0	0.029	0.087	
6			3	6.034	0.019	0	0.03	0.07	
7			4	6.038	0.019	0	0.029	0.072	
8			5	6.028	0.019	0	0.029	0.072	
9			6	6.038	0.022	0	0.029	0.083	
10			7	6.011	0.02	0	0.029	0.075	
11			8	6.004	0.019	0	0.029	0.07	
12			9	5.977	0.018	0	0.029	0.069	
13			10	6.004	0.019	0	0.029	0.07	
14			Avg:	6.015	0.02	0	0.029	0.074	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.015	0.02	0	0.029	0.074	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.569	0.014	0	0.039	0.025	
5			2	2.58	0.015	0	0.039	0.026	
6			3	2.657	0.017	0	0.04	0.03	
7			4	2.541	0.014	0	0.039	0.025	
8			5	2.605	0.015	0	0.039	0.026	
9			6	2.614	0.015	0	0.039	0.026	
10			7	2.55	0.015	0	0.039	0.026	
11			8	2.536	0.014	0	0.039	0.025	
12			9	2.553	0.015	0	0.038	0.027	
13			10	2.573	0.015	0	0.039	0.025	
14			Avg:	2.578	0.015	0	0.039	0.026	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.578	0.015	0	0.039	0.026	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.712	0.02	0	0.036	0.048	
5			2	3.678	0.017	0	0.037	0.04	
6			3	3.695	0.017	0	0.037	0.042	
7			4	3.709	0.019	0	0.037	0.044	
8			5	3.701	0.017	0	0.037	0.04	
9			6	3.797	0.017	0	0.037	0.042	
10			7	3.718	0.017	0	0.037	0.042	
11			8	3.785	0.017	0	0.037	0.041	
12			9	3.669	0.017	0	0.038	0.041	
13			10	3.71	0.019	0	0.037	0.046	
14			Avg:	3.717	0.018	0	0.037	0.043	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.717	0.018	0	0.037	0.043	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.274	0.018	0	0.031	0.071	
5			2	6.204	0.019	0	0.032	0.07	
6			3	6.296	0.018	0	0.031	0.072	
7			4	6.174	0.021	0	0.032	0.08	
8			5	6.291	0.017	0	0.031	0.066	
9			6	6.218	0.018	0	0.031	0.07	
10			7	6.064	0.017	0	0.031	0.067	
11			8	6.071	0.016	0	0.031	0.062	
12			9	6.435	0.016	0	0.031	0.065	
13			10	6.153	0.016	0	0.031	0.063	
14			Avg:	6.218	0.018	0	0.031	0.069	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.218	0.018	0	0.031	0.069	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.561	0.013	0	0.041	0.022	
5			2	2.607	0.013	0	0.042	0.023	
6			3	2.59	0.013	0	0.041	0.021	
7			4	2.511	0.013	0	0.042	0.021	
8			5	2.516	0.013	0	0.043	0.021	
9			6	2.655	0.013	0	0.042	0.022	
10			7	2.574	0.013	0	0.042	0.022	
11			8	2.457	0.014	0	0.042	0.023	
12			9	2.742	0.013	0	0.043	0.023	
13			10	2.658	0.013	0	0.043	0.023	
14			Avg:	2.587	0.013	0	0.042	0.022	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.587	0.013	0	0.042	0.022	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.699	0.018	0	0.032	0.064	
5			2	5.886	0.02	0	0.031	0.076	
6			3	5.671	0.021	0	0.032	0.076	
7			4	5.661	0.017	0	0.032	0.062	
8			5	5.515	0.017	0	0.032	0.061	
9			6	5.594	0.018	0	0.032	0.063	
10			7	5.503	0.02	0	0.032	0.07	
11			8	5.42	0.017	0	0.032	0.061	
12			9	6.054	0.017	0	0.032	0.066	
13			10	5.496	0.017	0	0.032	0.06	
14			Avg:	5.65	0.018	0	0.032	0.066	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.65	0.018	0	0.032	0.066	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.483	0.015	0	0.04	0.027	
5			2	2.506	0.015	0	0.041	0.026	
6			3	2.521	0.015	0	0.04	0.027	
7			4	2.475	0.015	0	0.041	0.026	
8			5	2.541	0.015	0	0.041	0.027	
9			6	2.526	0.015	0	0.041	0.026	
10			7	2.549	0.015	0	0.041	0.027	
11			8	2.516	0.015	0	0.04	0.027	
12			9	2.559	0.016	0	0.04	0.027	
13			10	2.436	0.015	0	0.04	0.026	
14			Avg:	2.511	0.015	0	0.041	0.027	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.511	0.015	0	0.041	0.027	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.437	0.016	0	0.04	0.037	
5			2	3.49	0.015	0	0.041	0.035	
6			3	3.488	0.016	0	0.04	0.037	
7			4	3.404	0.016	0	0.041	0.035	
8			5	3.473	0.017	0	0.041	0.039	
9			6	3.373	0.016	0	0.041	0.035	
10			7	3.46	0.017	0	0.04	0.039	
11			8	3.469	0.015	0	0.041	0.035	
12			9	3.418	0.016	0	0.04	0.037	
13			10	3.56	0.015	0	0.04	0.035	
14			Avg:	3.457	0.016	0	0.041	0.036	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.457	0.016	0	0.041	0.036	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.565	0.02	0	0.034	0.074	
5			2	5.604	0.022	0	0.034	0.081	
6			3	5.745	0.02	0	0.034	0.073	
7			4	5.701	0.021	0	0.034	0.078	
8			5	5.701	0.02	0	0.034	0.074	
9			6	5.857	0.02	0	0.034	0.075	
10			7	5.565	0.021	0	0.034	0.075	
11			8	5.78	0.02	0	0.034	0.074	
12			9	5.652	0.022	0	0.034	0.079	
13			10	5.745	0.022	0	0.034	0.081	
14			Avg:	5.692	0.021	0	0.034	0.076	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.692	0.021	0	0.034	0.076	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.605	0.017	0	0.042	0.031	
5			2	2.596	0.016	0	0.042	0.03	
6			3	2.645	0.018	0	0.042	0.033	
7			4	2.563	0.016	0	0.042	0.03	
8			5	2.611	0.016	0	0.042	0.029	
9			6	2.642	0.017	0	0.041	0.032	
10			7	2.418	0.016	0	0.042	0.028	
11			8	2.599	0.016	0	0.041	0.03	
12			9	2.601	0.016	0	0.042	0.03	
13			10	2.533	0.017	0	0.041	0.03	
14			Avg:	2.581	0.017	0	0.042	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.581	0.017	0	0.042	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.58	0.015	0	0.035	0.029	
5			2	2.628	0.015	0	0.035	0.029	
6			3	2.597	0.014	0	0.035	0.027	
7			4	2.603	0.016	0	0.035	0.03	
8			5	2.805	0.014	0	0.035	0.029	
9			6	2.599	0.015	0	0.035	0.028	
10			7	2.523	0.017	0	0.035	0.029	
11			8	2.596	0.016	0	0.035	0.029	
12			9	2.591	0.015	0	0.035	0.027	
13			10	2.836	0.015	0	0.035	0.031	
14			Avg:	2.636	0.015	0	0.035	0.029	0.00 ms
15									
16	XR100 DAT								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18				[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1						
20			2						
21			3						
22			4						
23			5						
24			6						
25			7						
26			8						
27			9						
28			10						
29			Avg:	0	0	0	0	0	0.00 ms
30									
31	XR100 DATA A1 XMP1								
32	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
33	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
34	Single Action		1	6.701	0.02	0	0.017	0.085	
35			2	6.622	0.019	0	0.019	0.077	
36			3	6.388	0.018	0	0.028	0.074	
37			4	6.409	0.02	0	0.027	0.079	
38			5	6.295	0.019	0	0.028	0.076	
39			6	6.62	0.021	0	0.021	0.088	
40			7	6.388	0.021	0	0.028	0.083	
41			8	6.538	0.02	0	0.028	0.083	
42			9	6.531	0.022	0	0.022	0.09	

	A	B	C	D	E	F	G	H	I
43			10	6.32	0.018	0	0.028	0.073	
44			Avg:	6.481	0.02	0	0.025	0.081	0.00 ms
45									
46	XR100 A2 Fac								
47	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
48	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
49	Single Action		1	2.962	0.027	0	0.026	0.059	
50			2	2.627	0.028	0	0.026	0.056	
51			3	2.661	0.028	0	0.026	0.057	
52			4	2.715	0.026	0	0.028	0.055	
53			5	2.637	0.027	0	0.025	0.055	
54			6	2.567	0.026	0	0.026	0.053	
55			7	3.02	0.026	0	0.029	0.058	
56			8	2.828	0.026	0	0.028	0.056	
57			9	2.636	0.027	0	0.029	0.054	
58			10	2.662	0.026	0	0.025	0.053	
59			Avg:	2.732	0.027	0	0.027	0.056	0.00 ms
60									
61									
62	TOTAL AVG								
63	Single Action			2.962	0.015	0	0.022	0.041	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A3 MIN-2								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.036	0.018	0	0.033	0.069	
5			2	5.86	0.019	0	0.033	0.072	
6			3	6.172	0.017	0	0.033	0.066	
7			4	6.024	0.017	0	0.034	0.064	
8			5	6.095	0.018	0	0.033	0.07	
9			6	5.934	0.018	0	0.033	0.068	
10			7	5.894	0.018	0	0.034	0.069	
11			8	5.841	0.018	0	0.034	0.069	
12			9	6.042	0.016	0	0.034	0.062	
13			10	5.971	0.019	0	0.033	0.073	
14			Avg:	5.987	0.018	0	0.033	0.068	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.987	0.018	0	0.033	0.068	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A2								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.926	0.021	0	0.032	0.08	
5			2	5.942	0.019	0	0.032	0.072	
6			3	5.818	0.019	0	0.032	0.068	
7			4	5.771	0.018	0	0.033	0.066	
8			5	5.735	0.018	0	0.033	0.066	
9			6	5.745	0.018	0	0.033	0.066	
10			7	6.05	0.02	0	0.032	0.076	
11			8	5.767	0.019	0	0.033	0.07	
12			9	5.985	0.022	0	0.032	0.081	
13			10	5.985	0.018	0	0.033	0.069	
14			Avg:	5.872	0.019	0	0.033	0.071	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.872	0.019	0	0.033	0.071	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A3 MIN-2								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.512	0.016	0	0.043	0.028	
5			2	2.591	0.015	0	0.043	0.027	
6			3	2.561	0.013	0	0.044	0.023	
7			4	2.585	0.013	0	0.043	0.024	
8			5	2.563	0.013	0	0.043	0.023	
9			6	2.631	0.014	0	0.042	0.025	
10			7	2.635	0.015	0	0.043	0.026	
11			8	2.597	0.013	0	0.044	0.024	
12			9	2.564	0.013	0	0.043	0.022	
13			10	2.539	0.013	0	0.043	0.022	
14			Avg:	2.578	0.014	0	0.043	0.024	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.578	0.014	0	0.043	0.024	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A2								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.657	0.016	0	0.043	0.029	
5			2	2.674	0.017	0	0.043	0.031	
6			3	2.631	0.016	0	0.043	0.028	
7			4	2.572	0.015	0	0.044	0.026	
8			5	2.601	0.015	0	0.044	0.027	
9			6	2.67	0.017	0	0.043	0.031	
10			7	2.597	0.017	0	0.043	0.03	
11			8	2.616	0.015	0	0.043	0.027	
12			9	2.575	0.015	0	0.044	0.027	
13			10	2.785	0.016	0	0.042	0.03	
14			Avg:	2.638	0.016	0	0.043	0.029	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.638	0.016	0	0.043	0.029	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.48	0.018	0.006	0.045	0.043	
5			2	3.554	0.017	0	0.045	0.042	
6			3	3.577	0.017	0	0.045	0.042	
7			4	3.492	0.019	0	0.044	0.045	
8			5	3.455	0.017	0	0.045	0.041	
9			6	3.485	0.017	0	0.044	0.041	
10			7	3.519	0.019	0	0.045	0.046	
11			8	3.511	0.019	0	0.045	0.046	
12			9	3.575	0.017	0	0.044	0.042	
13			10	3.607	0.019	0	0.045	0.047	
14			Avg:	3.526	0.018	0.001	0.045	0.044	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.526	0.018	0.001	0.045	0.044	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.809	0.018	0	0.028	0.065	
5			2	5.801	0.017	0	0.029	0.062	
6			3	5.833	0.021	0	0.028	0.076	
7			4	5.885	0.02	0	0.028	0.074	
8			5	5.84	0.017	0	0.029	0.064	
9			6	5.772	0.019	0.006	0.029	0.069	
10			7	5.782	0.021	0	0.029	0.074	
11			8	5.847	0.019	0	0.029	0.07	
12			9	5.827	0.018	0	0.029	0.065	
13			10	5.866	0.017	0	0.029	0.062	
14			Avg:	5.826	0.019	0.001	0.029	0.068	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.826	0.019	0.001	0.029	0.068	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.597	0.014	0	0.041	0.025	
5			2	2.57	0.014	0	0.041	0.026	
6			3	2.626	0.014	0	0.041	0.026	
7			4	2.593	0.015	0	0.041	0.026	
8			5	2.612	0.015	0	0.041	0.027	
9			6	2.598	0.014	0	0.041	0.026	
10			7	2.587	0.015	0	0.04	0.027	
11			8	2.621	0.016	0	0.041	0.029	
12			9	2.591	0.014	0	0.041	0.026	
13			10	2.679	0.015	0	0.041	0.028	
14			Avg:	2.607	0.015	0	0.041	0.027	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.607	0.015	0	0.041	0.027	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 START OF TESTING								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.401	0.016	0.006	0.041	0.036	
5			2	3.455	0.015	0	0.04	0.035	
6			3	3.444	0.016	0.005	0.04	0.037	
7			4	3.428	0.018	0.007	0.04	0.04	
8			5	3.452	0.018	0	0.04	0.04	
9			6	3.388	0.016	0.006	0.041	0.035	
10			7	3.429	0.018	0	0.04	0.04	
11			8	3.411	0.017	0.005	0.04	0.038	
12			9	3.444	0.016	0.005	0.041	0.036	
13			10	3.385	0.018	0.005	0.041	0.04	
14			Avg:	3.424	0.017	0.004	0.04	0.038	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.424	0.017	0.004	0.04	0.038	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A2								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.926	0.021	0	0.032	0.08	
5			2	5.942	0.019	0	0.032	0.072	
6			3	5.818	0.019	0	0.032	0.068	
7			4	5.771	0.018	0	0.033	0.066	
8			5	5.735	0.018	0	0.033	0.066	
9			6	5.745	0.018	0	0.033	0.066	
10			7	6.05	0.02	0	0.032	0.076	
11			8	5.767	0.019	0	0.033	0.07	
12			9	5.985	0.022	0	0.032	0.081	
13			10	5.985	0.018	0	0.033	0.069	
14			Avg:	5.872	0.019	0	0.033	0.071	0.00 ms
15									
16	XR100 A3 Fac								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1	3.609	0.023	0	0.031	0.057	
20			2	4.342	0.024	0	0.03	0.067	
21			3	4.004	0.023	0	0.031	0.061	
22			4	3.219	0.023	0	0.03	0.051	
23			5	3.332	0.023	0	0.031	0.052	
24			6	3.341	0.024	0	0.031	0.054	
25			7	3.174	0.024	0	0.031	0.051	
26			8	3.354	0.024	0	0.03	0.053	
27			9	3.35	0.023	0	0.032	0.052	
28			10	3.254	0.023	0	0.03	0.051	
29			Avg:	3.498	0.023	0	0.031	0.055	0.00 ms
30									
31	XR100 A3 Fac								
32	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
33				[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
34	Single Action		1						
35			2						
36			3						
37			4						
38			5						
39			6						
40			7						
41			8						
42			9						

	A	B	C	D	E	F	G	H	I
43			10						
44			Avg:	0	0	0	0	0	0.00 ms
45									
46									
47	TOTAL AVG								
48	Single Action			3.123	0.014	0	0.021	0.042	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A3 MIN-2								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.02	0.017	0	0.033	0.064	
5			2	5.853	0.019	0	0.034	0.072	
6			3	5.904	0.016	0	0.034	0.062	
7			4	6.026	0.016	0	0.034	0.063	
8			5	5.942	0.019	0	0.033	0.071	
9			6	5.953	0.016	0	0.034	0.062	
10			7	5.995	0.02	0	0.033	0.074	
11			8	5.936	0.017	0	0.034	0.064	
12			9	5.704	0.02	0	0.034	0.072	
13			10	5.811	0.016	0	0.034	0.06	
14			Avg:	5.914	0.018	0	0.034	0.066	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.914	0.018	0	0.034	0.066	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.351	0.018	0	0.029	0.076	
5			2	6.379	0.019	0	0.029	0.077	
6			3	6.783	0.018	0	0.029	0.077	
7			4	6.29	0.02	0	0.03	0.077	
8			5	6.375	0.022	0.005	0.029	0.089	
9			6	6.274	0.021	0	0.029	0.085	
10			7	6.639	0.019	0	0.029	0.079	
11			8	6.355	0.018	0	0.029	0.071	
12			9	6.509	0.018	0	0.029	0.074	
13			10	6.488	0.019	0	0.029	0.08	
14			Avg:	6.444	0.019	0.001	0.029	0.079	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.444	0.019	0.001	0.029	0.079	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A3 MIN-2								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.466	0.016	0	0.04	0.028	
5			2	2.516	0.017	0	0.04	0.029	
6			3	2.485	0.016	0	0.04	0.028	
7			4	2.51	0.014	0	0.041	0.025	
8			5	2.535	0.014	0	0.041	0.026	
9			6	2.532	0.016	0	0.04	0.028	
10			7	2.747	0.016	0	0.04	0.031	
11			8	2.504	0.016	0	0.04	0.029	
12			9	2.523	0.016	0	0.04	0.028	
13			10	2.515	0.014	0	0.041	0.025	
14			Avg:	2.533	0.016	0	0.04	0.028	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.533	0.016	0	0.04	0.028	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 A3 Initial setup min								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.636	0.017	0	0.042	0.031	
5			2	2.728	0.016	0	0.042	0.03	
6			3	2.671	0.015	0	0.041	0.028	
7			4	2.656	0.017	0	0.042	0.031	
8			5	2.551	0.015	0	0.041	0.027	
9			6	2.621	0.015	0	0.041	0.028	
10			7	2.78	0.015	0	0.042	0.029	
11			8	2.577	0.016	0	0.042	0.03	
12			9	2.549	0.015	0	0.042	0.026	
13			10	2.651	0.016	0	0.041	0.029	
14			Avg:	2.642	0.016	0	0.042	0.029	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.642	0.016	0	0.042	0.029	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.638	0.019	0	0.042	0.047	
5			2	3.649	0.019	0	0.043	0.047	
6			3	3.648	0.019	0	0.044	0.047	
7			4	3.642	0.017	0	0.043	0.042	
8			5	3.695	0.018	0	0.042	0.045	
9			6	3.577	0.019	0	0.042	0.046	
10			7	3.64	0.017	0	0.042	0.043	
11			8	3.636	0.017	0	0.042	0.043	
12			9	3.669	0.017	0	0.043	0.042	
13			10	3.717	0.016	0	0.043	0.041	
14			Avg:	3.651	0.018	0	0.043	0.044	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.651	0.018	0	0.043	0.044	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.975	0.019	0	0.034	0.041	
5			2	3.061	0.019	0.005	0.033	0.042	
6			3	3.187	0.019	0	0.034	0.041	
7			4	3.066	0.02	0	0.034	0.042	
8			5	2.989	0.018	0	0.033	0.038	
9			6	3.111	0.019	0	0.033	0.04	
10			7	3.466	0.018	0	0.034	0.041	
11			8	3.164	0.019	0	0.033	0.041	
12			9	3.17	0.019	0	0.033	0.041	
13			10	3.991	0.018	0	0.033	0.047	
14			Avg:	3.218	0.019	0.001	0.033	0.041	0.00 ms
15									
16	XR100 DAT								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1						
20			2						
21			3						
22			4						
23			5						
24			6						
25			7						
26			8						
27			9						
28			10						
29			Avg:	0	0	0	0	0	0.00 ms
30									
31									
32	TOTAL AVG								
33	Single Action			1.609	0.009	0	0.017	0.021	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.835	0.019	0	0.027	0.071	
5			2	6.053	0.022	0	0.022	0.085	
6			3	6.08	0.021	0	0.027	0.083	
7			4	5.944	0.021	0	0.027	0.082	
8			5	5.707	0.02	0	0.027	0.074	
9			6	5.696	0.019	0	0.027	0.072	
10			7	6.077	0.019	0	0.027	0.075	
11			8	5.715	0.019	0	0.027	0.073	
12			9	5.725	0.018	0	0.027	0.068	
13			10	5.768	0.02	0	0.027	0.074	
14			Avg:	5.86	0.02	0	0.027	0.076	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.86	0.02	0	0.027	0.076	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.335	0.019	0	0.019	0.075	
5			2	6.414	0.018	0	0.018	0.071	
6			3	6.228	0.021	0	0.021	0.082	
7			4	6.266	0.017	0	0.027	0.068	
8			5	6.523	0.017	0	0.017	0.07	
9			6	6.454	0.018	0	0.018	0.071	
10			7	6.277	0.019	0	0.017	0.077	
11			8	6.431	0.018	0	0.017	0.074	
12			9	6.631	0.017	0	0.017	0.072	
13			10	6.592	0.017	0	0.017	0.073	
14			Avg:	6.415	0.018	0	0.019	0.073	0.00 ms
15									
16	XR100 DAT								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1						
20			2						
21			3						
22			4						
23			5						
24			6						
25			7						
26			8						
27			9						
28			10						
29			Avg:	0	0	0	0	0	0.00 ms
30									
31									
32	TOTAL AVG								
33	Single Action			3.208	0.009	0	0.009	0.037	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.545	0.016	0	0.03	0.03	
5			2	2.645	0.016	0	0.031	0.031	
6			3	2.458	0.017	0	0.031	0.03	
7			4	2.565	0.015	0	0.031	0.029	
8			5	2.479	0.017	0	0.031	0.031	
9			6	2.525	0.016	0	0.03	0.029	
10			7	2.471	0.016	0	0.031	0.028	
11			8	2.605	0.015	0	0.03	0.029	
12			9	2.56	0.015	0	0.031	0.029	
13			10	2.605	0.017	0	0.03	0.032	
14			Avg:	2.546	0.016	0	0.031	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.546	0.016	0	0.031	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.524	0.016	0	0.031	0.028	
5			2	2.591	0.014	0	0.031	0.026	
6			3	2.617	0.014	0	0.031	0.026	
7			4	2.428	0.013	0	0.031	0.023	
8			5	2.633	0.013	0	0.031	0.025	
9			6	2.538	0.014	0	0.031	0.025	
10			7	2.487	0.013	0	0.031	0.024	
11			8	2.618	0.013	0	0.031	0.025	
12			9	2.966	0.015	0	0.031	0.031	
13			10	2.559	0.014	0	0.031	0.025	
14			Avg:	2.596	0.014	0	0.031	0.026	0.00 ms
15									
16	XR100 DAT								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1						
20			2						
21			3						
22			4						
23			5						
24			6						
25			7						
26			8						
27			9						
28			10						
29			Avg:	0	0	0	0	0	0.00 ms
30									
31									
32	TOTAL AVG								
33	Single Action			1.298	0.007	0	0.016	0.013	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.455	0.017	0	0.033	0.039	
5			2	3.442	0.017	0	0.032	0.039	
6			3	3.407	0.017	0	0.032	0.039	
7			4	3.392	0.017	0	0.033	0.038	
8			5	3.39	0.017	0	0.032	0.039	
9			6	3.464	0.017	0	0.032	0.04	
10			7	3.378	0.016	0	0.032	0.038	
11			8	3.374	0.018	0	0.032	0.042	
12			9	3.48	0.019	0	0.031	0.045	
13			10	3.477	0.018	0	0.031	0.042	
14			Avg:	3.426	0.017	0	0.032	0.04	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.426	0.017	0	0.032	0.04	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.404	0.024	0	0.03	0.062	
5			2	2.498	0.024	0	0.029	0.046	
6			3	2.874	0.023	0	0.029	0.05	
7			4	2.52	0.025	0	0.029	0.048	
8			5	2.485	0.024	0	0.03	0.046	
9			6	2.458	0.023	0	0.029	0.044	
10			7	2.439	0.024	0	0.029	0.044	
11			8	2.476	0.024	0	0.029	0.045	
12			9	2.652	0.023	0	0.028	0.046	
13			10	2.488	0.024	0	0.029	0.044	
14			Avg:	2.629	0.024	0	0.029	0.048	0.00 ms
15									
16	XR100 DAT								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1						
20			2						
21			3						
22			4						
23			5						
24			6						
25			7						
26			8						
27			9						
28			10						
29			Avg:	0	0	0	0	0	0.00 ms
30									
31	XR100 DAT								
32	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
33	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
34	Single Action		1						
35			2						
36			3						
37			4						
38			5						
39			6						
40			7						
41			8						
42			9						

	A	B	C	D	E	F	G	H	I
43			10						
44			Avg:	0	0	0	0	0	0.00 ms
45									
46									
47	TOTAL AVG								
48	Single Action			0.876	0.008	0	0.01	0.016	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.461	0.017	0	0.028	0.062	
5			2	5.605	0.017	0	0.028	0.062	
6			3	5.553	0.016	0	0.028	0.06	
7			4	5.562	0.018	0	0.028	0.065	
8			5	5.729	0.018	0	0.028	0.066	
9			6	5.714	0.019	0	0.028	0.073	
10			7	5.718	0.021	0	0.028	0.078	
11			8	5.689	0.017	0	0.029	0.061	
12			9	5.592	0.019	0	0.028	0.07	
13			10	5.572	0.016	0	0.028	0.061	
14			Avg:	5.62	0.018	0	0.028	0.066	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.62	0.018	0	0.028	0.066	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.566	0.022	0	0.019	0.091	
5			2	6.688	0.022	0	0.022	0.089	
6			3	6.489	0.02	0	0.028	0.081	
7			4	6.922	0.021	0	0.018	0.09	
8			5	6.674	0.018	0	0.024	0.076	
9			6	6.541	0.018	0	0.027	0.074	
10			7	6.578	0.02	0	0.027	0.082	
11			8	6.609	0.018	0	0.027	0.074	
12			9	6.747	0.02	0	0.028	0.085	
13			10	6.515	0.021	0	0.026	0.087	
14			Avg:	6.633	0.02	0	0.025	0.083	0.00 ms
15									
16	XR100 DAT								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1						
20			2						
21			3						
22			4						
23			5						
24			6						
25			7						
26			8						
27			9						
28			10						
29			Avg:	0	0	0	0	0	0.00 ms
30									
31	XR100 DAT								
32	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
33	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
34	Single Action		1						
35			2						
36			3						
37			4						
38			5						
39			6						
40			7						
41			8						
42			9						

	A	B	C	D	E	F	G	H	I
43			10						
44			Avg:	0	0	0	0	0	0.00 ms
45									
46									
47	TOTAL AVG								
48	Single Action			2.211	0.007	0	0.008	0.028	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.531	0.015	0	0.036	0.027	
5			2	2.573	0.015	0	0.036	0.027	
6			3	2.577	0.015	0	0.036	0.027	
7			4	2.543	0.015	0	0.036	0.027	
8			5	2.582	0.015	0	0.036	0.027	
9			6	2.504	0.015	0	0.036	0.026	
10			7	2.693	0.015	0	0.036	0.027	
11			8	2.52	0.016	0	0.036	0.028	
12			9	2.545	0.015	0	0.036	0.027	
13			10	2.526	0.015	0	0.036	0.026	
14			Avg:	2.559	0.015	0	0.036	0.027	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.559	0.015	0	0.036	0.027	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.591	0.016	0	0.035	0.029	
5			2	2.75	0.015	0	0.037	0.029	
6			3	2.736	0.016	0	0.036	0.03	
7			4	2.631	0.017	0	0.037	0.03	
8			5	2.651	0.017	0	0.036	0.031	
9			6	2.701	0.017	0	0.037	0.031	
10			7	2.7	0.016	0	0.036	0.029	
11			8	2.711	0.017	0	0.036	0.032	
12			9	2.697	0.015	0	0.036	0.028	
13			10	2.762	0.017	0	0.037	0.032	
14			Avg:	2.693	0.016	0	0.036	0.03	0.00 ms
15									
16	XR100 DAT								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1						
20			2						
21			3						
22			4						
23			5						
24			6						
25			7						
26			8						
27			9						
28			10						
29			Avg:	0	0	0	0	0	0.00 ms
30									
31	XR100 DAT								
32	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
33	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
34	Single Action		1						
35			2						
36			3						
37			4						
38			5						
39			6						
40			7						
41			8						
42			9						

	A	B	C	D	E	F	G	H	I
43			10						
44			Avg:	0	0	0	0	0	0.00 ms
45									
46									
47	TOTAL AVG								
48	Single Action			0.898	0.005	0	0.012	0.01	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.485	0.017	0	0.036	0.04	
5			2	3.41	0.018	0	0.037	0.04	
6			3	3.408	0.019	0	0.036	0.044	
7			4	3.396	0.017	0	0.036	0.038	
8			5	3.428	0.017	0	0.036	0.039	
9			6	3.382	0.017	0	0.037	0.038	
10			7	3.322	0.016	0	0.036	0.037	
11			8	3.345	0.017	0	0.037	0.038	
12			9	3.346	0.018	0	0.036	0.04	
13			10	3.256	0.017	0	0.036	0.038	
14			Avg:	3.378	0.017	0	0.036	0.039	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.378	0.017	0	0.036	0.039	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 A6 FACTORY SETTINGS								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.548	0.018	0	0.03	0.042	
5			2	3.514	0.018	0	0.03	0.042	
6			3	3.46	0.018	0	0.03	0.041	
7			4	3.399	0.017	0	0.031	0.04	
8			5	3.434	0.017	0	0.03	0.039	
9			6	3.49	0.019	0	0.029	0.043	
10			7	3.461	0.018	0	0.03	0.042	
11			8	3.5	0.017	0	0.03	0.039	
12			9	3.54	0.018	0	0.03	0.043	
13			10	3.504	0.017	0	0.03	0.039	
14			Avg:	3.485	0.018	0	0.03	0.041	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.485	0.018	0	0.03	0.041	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.039	0.017	0	0.027	0.065	
5			2	6.12	0.018	0	0.027	0.069	
6			3	6.167	0.017	0	0.026	0.063	
7			4	6.356	0.017	0	0.025	0.068	
8			5	6.061	0.018	0	0.026	0.067	
9			6	6.007	0.017	0	0.026	0.062	
10			7	6.061	0.017	0	0.026	0.062	
11			8	6.019	0.02	0	0.026	0.076	
12			9	6.534	0.017	0	0.026	0.068	
13			10	5.973	0.019	0	0.026	0.07	
14			Avg:	6.134	0.018	0	0.026	0.067	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.134	0.018	0	0.026	0.067	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A6 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.244	0.018	0	0.012	0.073	
5			2	6.156	0.02	0	0.012	0.077	
6			3	6.087	0.018	0	0.013	0.071	
7			4	6.074	0.022	0	0.014	0.086	
8			5	5.998	0.018	0	0.014	0.072	
9			6	6.369	0.022	0	0.013	0.09	
10			7	6.142	0.018	0	0.014	0.072	
11			8	6.047	0.018	0	0.015	0.071	
12			9	6.361	0.018	0	0.014	0.076	
13			10	5.986	0.018	0	0.015	0.069	
14			Avg:	6.146	0.019	0	0.014	0.076	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.146	0.019	0	0.014	0.076	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A6 MAX								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.64	0.02	0	0.027	0.084	
5			2	6.577	0.023	0	0.028	0.094	
6			3	6.598	0.018	0	0.027	0.075	
7			4	6.463	0.02	0	0.027	0.08	
8			5	6.777	0.018	0	0.027	0.078	
9			6	6.683	0.019	0	0.027	0.078	
10			7	6.38	0.019	0	0.027	0.078	
11			8	6.497	0.019	0	0.027	0.079	
12			9	6.791	0.018	0	0.027	0.079	
13			10	6.685	0.02	0	0.027	0.083	
14			Avg:	6.609	0.019	0	0.027	0.081	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.609	0.019	0	0.027	0.081	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.483	0.014	0	0.038	0.025	
5			2	2.592	0.014	0	0.039	0.026	
6			3	2.691	0.015	0	0.039	0.027	
7			4	2.712	0.013	0	0.039	0.024	
8			5	2.62	0.013	0	0.039	0.024	
9			6	2.693	0.013	0	0.039	0.024	
10			7	2.626	0.013	0	0.039	0.024	
11			8	2.659	0.014	0	0.039	0.026	
12			9	2.651	0.014	0	0.039	0.026	
13			10	2.634	0.013	0	0.039	0.025	
14			Avg:	2.636	0.014	0	0.039	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.636	0.014	0	0.039	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A6 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.592	0.015	0	0.042	0.028	
5			2	2.592	0.015	0	0.042	0.028	
6			3	2.524	0.015	0	0.042	0.027	
7			4	2.525	0.015	0	0.042	0.027	
8			5	2.546	0.014	0	0.042	0.027	
9			6	2.495	0.015	0	0.042	0.026	
10			7	2.609	0.016	0	0.042	0.029	
11			8	2.545	0.014	0	0.043	0.027	
12			9	2.561	0.015	0	0.041	0.028	
13			10	2.523	0.015	0	0.042	0.028	
14			Avg:	2.551	0.015	0	0.042	0.028	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.551	0.015	0	0.042	0.028	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 A6 FACTORY SETTINGS								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.774	0.016	0	0.042	0.032	
5			2	2.774	0.014	0	0.042	0.029	
6			3	2.823	0.016	0	0.042	0.032	
7			4	2.796	0.015	0	0.041	0.029	
8			5	2.804	0.015	0	0.042	0.03	
9			6	2.731	0.014	0	0.042	0.028	
10			7	2.885	0.017	0	0.042	0.034	
11			8	2.769	0.014	0	0.042	0.028	
12			9	2.729	0.016	0	0.042	0.031	
13			10	2.81	0.015	0	0.042	0.03	
14			Avg:	2.79	0.015	0	0.042	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.79	0.015	0	0.042	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.481	0.016	0	0.039	0.04	
5			2	3.471	0.017	0	0.04	0.04	
6			3	3.545	0.017	0	0.039	0.042	
7			4	3.516	0.015	0	0.04	0.036	
8			5	3.512	0.015	0	0.04	0.035	
9			6	3.565	0.016	0	0.039	0.038	
10			7	3.462	0.015	0	0.039	0.035	
11			8	3.404	0.015	0	0.039	0.034	
12			9	3.52	0.015	0	0.039	0.037	
13			10	3.445	0.015	0	0.039	0.036	
14			Avg:	3.492	0.016	0	0.039	0.037	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.492	0.016	0	0.039	0.037	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A6 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.244	0.018	0	0.012	0.073	
5			2	6.156	0.02	0	0.012	0.077	
6			3	6.087	0.018	0	0.013	0.071	
7			4	6.074	0.022	0	0.014	0.086	
8			5	5.998	0.018	0	0.014	0.072	
9			6	6.369	0.022	0	0.013	0.09	
10			7	6.142	0.018	0	0.014	0.072	
11			8	6.047	0.018	0	0.015	0.071	
12			9	6.361	0.018	0	0.014	0.076	
13			10	5.986	0.018	0	0.015	0.069	
14			Avg:	6.146	0.019	0	0.014	0.076	0.00 ms
15									
16	XR100 A7 Fac								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1	3.233	0.022	0	0.032	0.048	
20			2	3.517	0.021	0	0.031	0.049	
21			3	3.499	0.02	0	0.031	0.047	
22			4	3.504	0.021	0	0.031	0.05	
23			5	3.545	0.02	0	0.032	0.048	
24			6	3.412	0.022	0	0.031	0.05	
25			7	3.485	0.02	0	0.031	0.048	
26			8	3.418	0.02	0	0.032	0.046	
27			9	3.498	0.022	0	0.032	0.052	
28			10	3.462	0.022	0	0.031	0.05	
29			Avg:	3.457	0.021	0	0.031	0.049	0.00 ms
30									
31									
32	TOTAL AVG								
33	Single Action			4.802	0.02	0	0.023	0.062	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.705	0.018	0	0.027	0.066	
5			2	5.818	0.021	0	0.027	0.074	
6			3	5.631	0.021	0	0.027	0.074	
7			4	5.619	0.019	0	0.028	0.066	
8			5	5.648	0.022	0	0.027	0.077	
9			6	5.854	0.018	0	0.027	0.066	
10			7	5.785	0.018	0	0.027	0.065	
11			8	5.755	0.022	0	0.027	0.079	
12			9	5.682	0.018	0	0.028	0.066	
13			10	5.684	0.02	0	0.028	0.07	
14			Avg:	5.718	0.02	0	0.027	0.07	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.718	0.02	0	0.027	0.07	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A6 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.244	0.018	0	0.012	0.073	
5			2	6.156	0.02	0	0.012	0.077	
6			3	6.087	0.018	0	0.013	0.071	
7			4	6.074	0.022	0	0.014	0.086	
8			5	5.998	0.018	0	0.014	0.072	
9			6	6.369	0.022	0	0.013	0.09	
10			7	6.142	0.018	0	0.014	0.072	
11			8	6.047	0.018	0	0.015	0.071	
12			9	6.361	0.018	0	0.014	0.076	
13			10	5.986	0.018	0	0.015	0.069	
14			Avg:	6.146	0.019	0	0.014	0.076	0.00 ms
15									
16	XR100 A7 Fac								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1	6.571	0.023	0	0.018	0.09	
20			2	6.718	0.018	0	0.026	0.074	
21			3	6.622	0.017	0	0.025	0.068	
22			4	6.692	0.017	0	0.025	0.071	
23			5	6.502	0.019	0	0.026	0.075	
24			6	6.396	0.019	0	0.026	0.076	
25			7	6.493	0.019	0	0.025	0.077	
26			8	6.447	0.016	0	0.025	0.064	
27			9	6.419	0.019	0	0.025	0.073	
28			10	6.545	0.016	0	0.025	0.064	
29			Avg:	6.541	0.018	0	0.025	0.073	0.00 ms
30									
31									
32	TOTAL AVG								
33	Single Action			6.343	0.019	0	0.019	0.074	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.55	0.015	0	0.039	0.024	
5			2	2.707	0.016	0	0.04	0.028	
6			3	2.59	0.014	0	0.038	0.024	
7			4	2.552	0.014	0	0.04	0.024	
8			5	2.609	0.016	0	0.04	0.027	
9			6	2.558	0.015	0	0.039	0.025	
10			7	2.6	0.014	0	0.04	0.025	
11			8	2.504	0.016	0	0.039	0.026	
12			9	2.553	0.014	0	0.039	0.024	
13			10	2.593	0.014	0	0.039	0.024	
14			Avg:	2.582	0.015	0	0.039	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.582	0.015	0	0.039	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A6 MIN								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.244	0.018	0	0.012	0.073	
5			2	6.156	0.02	0	0.012	0.077	
6			3	6.087	0.018	0	0.013	0.071	
7			4	6.074	0.022	0	0.014	0.086	
8			5	5.998	0.018	0	0.014	0.072	
9			6	6.369	0.022	0	0.013	0.09	
10			7	6.142	0.018	0	0.014	0.072	
11			8	6.047	0.018	0	0.015	0.071	
12			9	6.361	0.018	0	0.014	0.076	
13			10	5.986	0.018	0	0.015	0.069	
14			Avg:	6.146	0.019	0	0.014	0.076	0.00 ms
15									
16	XR100 A7 Fac								
17	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
18	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
19	Single Action		1	2.487	0.014	0	0.038	0.024	
20			2	2.601	0.014	0	0.038	0.025	
21			3	2.584	0.014	0	0.039	0.025	
22			4	2.611	0.014	0	0.037	0.024	
23			5	2.583	0.015	0	0.038	0.025	
24			6	2.693	0.015	0	0.038	0.027	
25			7	2.563	0.014	0	0.038	0.024	
26			8	2.464	0.014	0	0.037	0.025	
27			9	2.59	0.017	0	0.038	0.028	
28			10	2.57	0.014	0	0.037	0.024	
29			Avg:	2.575	0.015	0	0.038	0.025	0.00 ms
30									
31									
32	TOTAL AVG								
33	Single Action			4.361	0.017	0	0.026	0.05	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.479	0.018	0	0.038	0.04	
5			2	3.481	0.016	0	0.039	0.037	
6			3	3.485	0.016	0	0.039	0.036	
7			4	3.401	0.017	0	0.039	0.036	
8			5	3.477	0.016	0	0.039	0.036	
9			6	3.423	0.017	0	0.039	0.037	
10			7	3.555	0.019	0	0.039	0.043	
11			8	3.48	0.019	0	0.039	0.042	
12			9	3.447	0.017	0	0.039	0.037	
13			10	3.453	0.018	0	0.039	0.041	
14			Avg:	3.468	0.017	0	0.039	0.039	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.468	0.017	0	0.039	0.039	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.656	0.019	0	0.032	0.047	
5			2	3.505	0.021	0	0.031	0.051	
6			3	3.436	0.019	0	0.033	0.043	
7			4	3.505	0.02	0	0.032	0.048	
8			5	3.489	0.019	0	0.032	0.045	
9			6	3.34	0.019	0	0.032	0.044	
10			7	3.009	0.02	0	0.032	0.04	
11			8	3.518	0.021	0	0.033	0.05	
12			9	3.167	0.02	0	0.032	0.043	
13			10	3.327	0.018	0	0.032	0.042	
14			Avg:	3.395	0.02	0	0.032	0.045	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.395	0.02	0	0.032	0.045	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.758	0.022	0	0.03	0.079	
5			2	5.738	0.02	0	0.03	0.075	
6			3	5.731	0.019	0	0.03	0.069	
7			4	5.675	0.018	0	0.031	0.065	
8			5	5.777	0.018	0	0.031	0.066	
9			6	5.649	0.018	0	0.031	0.066	
10			7	6.205	0.017	0	0.03	0.068	
11			8	5.947	0.02	0	0.03	0.075	
12			9	5.972	0.018	0	0.031	0.068	
13			10	6.026	0.02	0	0.03	0.077	
14			Avg:	5.848	0.019	0	0.03	0.071	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			5.848	0.019	0	0.03	0.071	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.754	0.015	0	0.038	0.027	
5			2	2.618	0.016	0	0.039	0.027	
6			3	2.67	0.014	0	0.039	0.025	
7			4	2.568	0.015	0	0.039	0.025	
8			5	2.523	0.014	0	0.038	0.023	
9			6	2.602	0.013	0	0.038	0.023	
10			7	2.569	0.014	0	0.039	0.024	
11			8	2.651	0.014	0	0.038	0.026	
12			9	2.672	0.016	0	0.039	0.028	
13			10	2.64	0.014	0	0.039	0.025	
14			Avg:	2.627	0.015	0	0.039	0.025	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.627	0.015	0	0.039	0.025	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.553	0.017	0	0.039	0.039	
5			2	3.58	0.017	0	0.039	0.041	
6			3	3.522	0.017	0	0.039	0.039	
7			4	3.466	0.018	0	0.04	0.041	
8			5	3.525	0.017	0	0.039	0.038	
9			6	3.536	0.016	0	0.039	0.037	
10			7	3.485	0.016	0	0.039	0.037	
11			8	3.572	0.016	0	0.039	0.038	
12			9	3.506	0.017	0	0.039	0.039	
13			10	3.51	0.016	0	0.039	0.037	
14			Avg:	3.526	0.017	0	0.039	0.039	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.526	0.017	0	0.039	0.039	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4	0.018	0	0.03	0.049	
5			2	3.731	0.018	0	0.03	0.043	
6			3	3.532	0.018	0	0.031	0.041	
7			4	3.328	0.018	0	0.031	0.039	
8			5	3.389	0.018	0	0.031	0.039	
9			6	3.244	0.018	0	0.032	0.039	
10			7	3.969	0.021	0	0.03	0.054	
11			8	3.318	0.018	0	0.031	0.039	
12			9	3.24	0.02	0	0.03	0.041	
13			10	3.066	0.018	0	0.031	0.036	
14			Avg:	3.482	0.019	0	0.031	0.042	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.482	0.019	0	0.031	0.042	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.542	0.019	0	0.027	0.079	
5			2	6.534	0.02	0	0.028	0.084	
6			3	6.58	0.023	0	0.018	0.094	
7			4	6.638	0.02	0	0.018	0.083	
8			5	6.547	0.02	0	0.018	0.082	
9			6	6.504	0.019	0	0.018	0.078	
10			7	6.506	0.022	0	0.022	0.09	
11			8	6.477	0.018	0	0.026	0.076	
12			9	6.528	0.019	0	0.019	0.078	
13			10	6.496	0.022	0	0.022	0.089	
14			Avg:	6.535	0.02	0	0.022	0.083	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			6.535	0.02	0	0.022	0.083	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.601	0.016	0	0.038	0.029	
5			2	2.439	0.016	0	0.039	0.027	
6			3	2.522	0.015	0	0.039	0.027	
7			4	2.693	0.017	0	0.039	0.031	
8			5	2.482	0.016	0	0.039	0.028	
9			6	2.645	0.015	0	0.039	0.029	
10			7	2.551	0.017	0	0.039	0.031	
11			8	2.607	0.017	0	0.039	0.031	
12			9	2.648	0.016	0	0.039	0.029	
13			10	2.58	0.016	0	0.039	0.029	
14			Avg:	2.577	0.016	0	0.039	0.029	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.577	0.016	0	0.039	0.029	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.444	0.018	0	0.041	0.044	
5			2	3.41	0.016	0	0.041	0.037	
6			3	3.39	0.018	0	0.041	0.042	
7			4	3.412	0.018	0	0.041	0.042	
8			5	3.434	0.016	0	0.041	0.038	
9			6	3.48	0.017	0	0.041	0.04	
10			7	3.423	0.016	0	0.041	0.038	
11			8	3.482	0.017	0	0.04	0.04	
12			9	3.537	0.017	0	0.04	0.042	
13			10	3.436	0.016	0	0.041	0.037	
14			Avg:	3.445	0.017	0	0.041	0.04	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.445	0.017	0	0.041	0.04	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A6 1000 RDS								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.255	0.015	0	0.039	0.039	
5			2	4.234	0.015	0	0.04	0.038	
6			3	4.158	0.014	0	0.039	0.036	
7			4	4.172	0.014	0	0.04	0.036	
8			5	4.196	0.015	0	0.039	0.037	
9			6	4.199	0.018	0	0.039	0.045	
10			7	4.164	0.015	0	0.04	0.038	
11			8	4.213	0.015	0	0.04	0.038	
12			9	4.121	0.014	0	0.04	0.036	
13			10	4.175	0.017	0	0.04	0.043	
14			Avg:	4.189	0.015	0	0.04	0.039	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.189	0.015	0	0.04	0.039	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.989	0.02	0	0.043	0.052	
5			2	4.037	0.017	0	0.043	0.046	
6			3	3.966	0.017	0	0.044	0.043	
7			4	4.142	0.017	0	0.043	0.046	
8			5	4.077	0.017	0	0.043	0.044	
9			6	4.075	0.017	0	0.044	0.045	
10			7	4.039	0.016	0	0.044	0.044	
11			8	3.985	0.017	0	0.043	0.045	
12			9	4.048	0.017	0	0.044	0.045	
13			10	3.989	0.018	0	0.043	0.047	
14			Avg:	4.035	0.017	0	0.043	0.046	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.035	0.017	0	0.043	0.046	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.683	0.02	0	0.044	0.051	
5			2	3.845	0.019	0	0.044	0.05	
6			3	3.669	0.019	0	0.043	0.048	
7			4	3.75	0.02	0	0.043	0.052	
8			5	3.622	0.019	0	0.044	0.048	
9			6	3.611	0.02	0	0.043	0.048	
10			7	3.569	0.021	0	0.043	0.052	
11			8	3.648	0.022	0	0.043	0.055	
12			9	3.597	0.021	0	0.043	0.051	
13			10	3.691	0.02	0	0.044	0.05	
14			Avg:	3.669	0.02	0	0.043	0.051	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.669	0.02	0	0.043	0.051	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 START OF TESTING								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.513	0.018	0	0.043	0.043	
5			2	3.833	0.014	0	0.042	0.036	
6			3	3.666	0.015	0	0.042	0.035	
7			4	3.578	0.014	0	0.042	0.034	
8			5	3.667	0.015	0	0.042	0.036	
9			6	3.713	0.014	0	0.042	0.034	
10			7	3.704	0.014	0	0.041	0.036	
11			8	3.689	0.015	0	0.043	0.038	
12			9	3.635	0.013	0	0.041	0.033	
13			10	3.626	0.015	0	0.042	0.035	
14			Avg:	3.662	0.015	0	0.042	0.036	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.662	0.015	0	0.042	0.036	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A17 START OF TESTING								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.798	0.017	0	0.042	0.044	
5			2	4.009	0.019	0	0.042	0.052	
6			3	3.84	0.017	0	0.042	0.044	
7			4	3.793	0.017	0	0.042	0.044	
8			5	3.708	0.017	0	0.042	0.042	
9			6	3.866	0.017	0	0.042	0.046	
10			7	3.781	0.017	0	0.042	0.044	
11			8	3.759	0.018	0	0.042	0.045	
12			9	3.768	0.017	0	0.042	0.043	
13			10	3.745	0.017	0	0.042	0.044	
14			Avg:	3.807	0.017	0	0.042	0.045	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.807	0.017	0	0.042	0.045	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 START OF TESTING								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.89	0.017	0	0.041	0.044	
5			2	3.929	0.015	0	0.041	0.038	
6			3	3.803	0.015	0	0.04	0.038	
7			4	3.817	0.017	0	0.041	0.043	
8			5	3.749	0.014	0	0.041	0.035	
9			6	3.867	0.014	0	0.04	0.037	
10			7	3.853	0.014	0	0.041	0.036	
11			8	3.804	0.017	0	0.041	0.042	
12			9	3.828	0.014	0	0.041	0.036	
13			10	3.815	0.016	0	0.041	0.041	
14			Avg:	3.836	0.015	0	0.041	0.039	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.836	0.015	0	0.041	0.039	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.318	0.017	0	0.045	0.04	
5			2	3.288	0.016	0	0.046	0.038	
6			3	3.248	0.018	0	0.045	0.04	
7			4	3.385	0.017	0	0.047	0.039	
8			5	3.383	0.017	0	0.046	0.04	
9			6	3.379	0.017	0	0.046	0.039	
10			7	3.338	0.016	0	0.045	0.037	
11			8	3.364	0.016	0	0.046	0.037	
12			9	3.328	0.016	0	0.046	0.037	
13			10	3.295	0.018	0	0.045	0.042	
14			Avg:	3.333	0.017	0	0.046	0.039	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.333	0.017	0	0.046	0.039	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 START OF TESTING								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.422	0.013	0	0.041	0.032	
5			2	3.239	0.014	0	0.041	0.03	
6			3	3.254	0.014	0	0.041	0.03	
7			4	3.331	0.015	0	0.04	0.035	
8			5	3.264	0.013	0	0.041	0.031	
9			6	3.286	0.014	0	0.04	0.032	
10			7	3.24	0.016	0	0.04	0.035	
11			8	3.242	0.013	0	0.04	0.029	
12			9	3.22	0.014	0	0.041	0.03	
13			10	3.235	0.013	0	0.04	0.03	
14			Avg:	3.273	0.014	0	0.041	0.031	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.273	0.014	0	0.041	0.031	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.032	0.015	0	0.04	0.039	
5			2	3.965	0.016	0	0.04	0.041	
6			3	3.933	0.017	0	0.04	0.046	
7			4	3.989	0.017	0	0.04	0.046	
8			5	4.044	0.015	0	0.04	0.04	
9			6	3.956	0.015	0	0.04	0.04	
10			7	3.944	0.015	0	0.04	0.039	
11			8	3.917	0.015	0	0.04	0.04	
12			9	3.843	0.016	0	0.04	0.042	
13			10	3.907	0.016	0	0.04	0.043	
14			Avg:	3.953	0.016	0	0.04	0.042	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.953	0.016	0	0.04	0.042	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.858	0.018	0	0.039	0.045	
5			2	3.805	0.017	0	0.038	0.041	
6			3	3.645	0.017	0	0.039	0.041	
7			4	3.863	0.018	0	0.039	0.045	
8			5	3.737	0.017	0	0.038	0.042	
9			6	3.717	0.016	0	0.039	0.04	
10			7	3.785	0.018	0	0.039	0.042	
11			8	3.749	0.016	0	0.039	0.04	
12			9	3.636	0.016	0	0.039	0.038	
13			10	3.871	0.016	0	0.039	0.04	
14			Avg:	3.767	0.017	0	0.039	0.041	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.767	0.017	0	0.039	0.041	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 9000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.344	0.015	0	0.044	0.035	
5			2	3.255	0.014	0.004	0.043	0.031	
6			3	3.286	0.015	0	0.044	0.032	
7			4	3.251	0.014	0	0.044	0.03	
8			5	3.196	0.014	0	0.044	0.03	
9			6	3.214	0.012	0	0.043	0.026	
10			7	3.186	0.012	0	0.043	0.026	
11			8	3.185	0.014	0	0.043	0.03	
12			9	3.207	0.012	0	0.043	0.028	
13			10	3.133	0.012	0	0.043	0.027	
14			Avg:	3.226	0.013	0	0.043	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.226	0.013	0	0.043	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 9000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.542	0.019	0.006	0.046	0.045	
5			2	3.598	0.019	0.006	0.046	0.045	
6			3	3.56	0.019	0.006	0.045	0.044	
7			4	3.561	0.02	0.005	0.046	0.048	
8			5	3.373	0.018	0.005	0.046	0.043	
9			6	3.509	0.018	0.005	0.046	0.043	
10			7	3.485	0.019	0.005	0.045	0.045	
11			8	3.511	0.018	0.005	0.046	0.042	
12			9	3.453	0.018	0.005	0.045	0.042	
13			10	3.42	0.019	0	0.046	0.044	
14			Avg:	3.501	0.019	0.005	0.046	0.044	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.501	0.019	0.005	0.046	0.044	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 6000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.502	0.017	0.007	0.043	0.038	
5			2	3.53	0.018	0.006	0.043	0.041	
6			3	3.433	0.018	0.006	0.043	0.04	
7			4	3.499	0.018	0.005	0.043	0.041	
8			5	3.584	0.017	0.006	0.044	0.038	
9			6	3.516	0.019	0.005	0.043	0.042	
10			7	3.504	0.018	0	0.044	0.039	
11			8	3.61	0.017	0.007	0.044	0.041	
12			9	3.493	0.016	0.005	0.045	0.037	
13			10	3.59	0.017	0.005	0.044	0.04	
14			Avg:	3.526	0.018	0.005	0.044	0.04	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.526	0.018	0.005	0.044	0.04	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.346	0.015	0	0.04	0.038	
5			2	4.364	0.014	0	0.041	0.037	
6			3	4.276	0.015	0	0.041	0.037	
7			4	4.384	0.015	0	0.04	0.039	
8			5	4.295	0.015	0	0.041	0.037	
9			6	4.218	0.015	0	0.041	0.036	
10			7	4.263	0.015	0	0.04	0.037	
11			8	4.279	0.014	0	0.041	0.037	
12			9	4.249	0.015	0	0.042	0.037	
13			10	4.296	0.015	0	0.041	0.039	
14			Avg:	4.297	0.015	0	0.041	0.037	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.297	0.015	0	0.041	0.037	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.736	0.019	0	0.043	0.046	
5			2	3.663	0.017	0.006	0.044	0.04	
6			3	3.82	0.017	0	0.044	0.042	
7			4	3.828	0.017	0	0.043	0.041	
8			5	3.864	0.017	0	0.044	0.042	
9			6	3.775	0.017	0	0.045	0.041	
10			7	3.846	0.019	0	0.043	0.047	
11			8	3.716	0.017	0	0.044	0.042	
12			9	3.676	0.017	0	0.043	0.042	
13			10	3.684	0.017	0	0.043	0.041	
14			Avg:	3.761	0.017	0.001	0.044	0.042	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.761	0.017	0.001	0.044	0.042	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.985	0.015	0	0.04	0.041	
5			2	4.061	0.015	0	0.04	0.041	
6			3	4.069	0.015	0	0.04	0.04	
7			4	3.923	0.015	0	0.04	0.04	
8			5	3.882	0.015	0	0.041	0.04	
9			6	4.01	0.015	0	0.04	0.041	
10			7	3.934	0.017	0	0.04	0.045	
11			8	3.858	0.015	0	0.04	0.039	
12			9	3.88	0.015	0	0.041	0.039	
13			10	3.949	0.016	0	0.04	0.041	
14			Avg:	3.955	0.015	0	0.04	0.041	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.955	0.015	0	0.04	0.041	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.923	0.016	0	0.041	0.037	
5			2	4.024	0.013	0	0.04	0.033	
6			3	4.127	0.015	0	0.041	0.037	
7			4	4.072	0.014	0	0.041	0.033	
8			5	4.069	0.013	0	0.041	0.032	
9			6	4.107	0.015	0	0.041	0.037	
10			7	3.927	0.013	0	0.041	0.03	
11			8	4.17	0.014	0	0.04	0.035	
12			9	3.949	0.013	0	0.041	0.03	
13			10	3.986	0.013	0	0.041	0.032	
14			Avg:	4.035	0.014	0	0.041	0.034	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.035	0.014	0	0.041	0.034	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A11 2000 RDS								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.478	0.017	0	0.044	0.039	
5			2	3.464	0.016	0	0.044	0.038	
6			3	3.469	0.017	0.006	0.043	0.04	
7			4	3.42	0.019	0	0.043	0.043	
8			5	3.515	0.017	0	0.044	0.038	
9			6	3.472	0.017	0	0.044	0.039	
10			7	3.493	0.017	0	0.044	0.038	
11			8	3.578	0.016	0	0.044	0.038	
12			9	3.467	0.017	0	0.044	0.038	
13			10	3.504	0.017	0	0.044	0.038	
14			Avg:	3.486	0.017	0.001	0.044	0.039	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.486	0.017	0.001	0.044	0.039	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 1000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.538	0.016	0	0.042	0.038	
5			2	3.715	0.016	0	0.041	0.039	
6			3	3.631	0.017	0	0.042	0.04	
7			4	3.556	0.015	0	0.042	0.035	
8			5	3.601	0.012	0	0.041	0.03	
9			6	3.447	0.013	0	0.041	0.03	
10			7	3.66	0.015	0	0.041	0.036	
11			8	3.523	0.012	0	0.041	0.029	
12			9	3.595	0.015	0	0.041	0.035	
13			10	3.57	0.013	0	0.042	0.032	
14			Avg:	3.584	0.014	0	0.041	0.034	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.584	0.014	0	0.041	0.034	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A17 1000RNDS								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.635	0.015	0	0.044	0.037	
5			2	3.52	0.014	0	0.043	0.033	
6			3	3.541	0.016	0	0.042	0.036	
7			4	3.531	0.017	0	0.042	0.039	
8			5	3.418	0.017	0	0.042	0.038	
9			6	3.48	0.016	0	0.042	0.036	
10			7	3.434	0.015	0	0.042	0.035	
11			8	3.571	0.017	0	0.042	0.04	
12			9	3.569	0.015	0	0.043	0.035	
13			10	3.501	0.015	0	0.042	0.035	
14			Avg:	3.52	0.016	0	0.042	0.036	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.52	0.016	0	0.042	0.036	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 1000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.653	0.014	0	0.042	0.036	
5			2	3.661	0.015	0	0.043	0.037	
6			3	3.619	0.015	0	0.042	0.037	
7			4	3.673	0.015	0	0.043	0.036	
8			5	3.626	0.015	0	0.042	0.035	
9			6	3.584	0.014	0	0.043	0.034	
10			7	3.597	0.016	0	0.042	0.038	
11			8	3.639	0.014	0	0.043	0.035	
12			9	3.631	0.015	0	0.043	0.036	
13			10	3.656	0.015	0	0.043	0.036	
14			Avg:	3.634	0.015	0	0.043	0.036	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.634	0.015	0	0.043	0.036	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.058	0.014	0	0.041	0.037	
5			2	4.115	0.014	0	0.041	0.037	
6			3	3.968	0.017	0	0.039	0.043	
7			4	4.088	0.014	0	0.04	0.038	
8			5	3.989	0.014	0	0.04	0.037	
9			6	4.045	0.014	0	0.04	0.036	
10			7	4.047	0.014	0	0.04	0.038	
11			8	4.043	0.014	0	0.041	0.036	
12			9	4.076	0.014	0	0.04	0.037	
13			10	4.112	0.014	0	0.04	0.037	
14			Avg:	4.054	0.014	0	0.04	0.038	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.054	0.014	0	0.04	0.038	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 3000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.304	0.014	0	0.041	0.031	
5			2	3.206	0.015	0	0.041	0.033	
6			3	3.196	0.014	0	0.041	0.031	
7			4	3.239	0.014	0	0.041	0.033	
8			5	3.245	0.015	0	0.041	0.034	
9			6	3.307	0.015	0	0.041	0.034	
10			7	3.319	0.014	0	0.041	0.031	
11			8	3.314	0.014	0	0.041	0.032	
12			9	3.186	0.015	0	0.041	0.034	
13			10	3.291	0.014	0	0.041	0.031	
14			Avg:	3.261	0.014	0	0.041	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.261	0.014	0	0.041	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 2000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.173	0.017	0	0.042	0.035	
5			2	3.057	0.015	0	0.042	0.03	
6			3	3.097	0.016	0	0.042	0.033	
7			4	3.045	0.017	0	0.043	0.034	
8			5	3.159	0.014	0	0.043	0.03	
9			6	3.107	0.015	0	0.043	0.031	
10			7	3.146	0.014	0	0.042	0.03	
11			8	3.282	0.017	0	0.042	0.036	
12			9	3.147	0.017	0	0.042	0.035	
13			10	3.396	0.015	0	0.044	0.032	
14			Avg:	3.161	0.016	0	0.043	0.033	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.161	0.016	0	0.043	0.033	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 2000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.574	0.014	0	0.044	0.033	
5			2	3.657	0.017	0	0.043	0.041	
6			3	3.588	0.015	0	0.043	0.036	
7			4	3.552	0.014	0	0.044	0.033	
8			5	3.57	0.014	0	0.044	0.033	
9			6	3.648	0.014	0	0.044	0.034	
10			7	3.648	0.017	0	0.043	0.041	
11			8	3.627	0.015	0	0.043	0.038	
12			9	3.642	0.017	0	0.043	0.041	
13			10	3.682	0.013	0	0.043	0.034	
14			Avg:	3.619	0.015	0	0.043	0.036	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.619	0.015	0	0.043	0.036	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 3000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.227	0.014	0	0.042	0.031	
5			2	3.228	0.013	0	0.042	0.03	
6			3	3.134	0.014	0	0.042	0.03	
7			4	3.231	0.013	0	0.042	0.031	
8			5	3.167	0.014	0	0.041	0.032	
9			6	3.139	0.013	0	0.042	0.029	
10			7	3.188	0.013	0	0.042	0.029	
11			8	3.185	0.013	0	0.042	0.029	
12			9	3.228	0.013	0	0.042	0.029	
13			10	3.191	0.012	0	0.042	0.028	
14			Avg:	3.192	0.013	0	0.042	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.192	0.013	0	0.042	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A17 3000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.453	0.014	0	0.041	0.034	
5			2	3.439	0.015	0	0.041	0.034	
6			3	3.328	0.014	0	0.041	0.032	
7			4	3.346	0.016	0	0.041	0.037	
8			5	3.353	0.017	0	0.041	0.038	
9			6	3.358	0.014	0	0.041	0.032	
10			7	3.376	0.015	0	0.042	0.033	
11			8	3.433	0.015	0	0.041	0.035	
12			9	3.445	0.015	0	0.042	0.035	
13			10	3.426	0.014	0	0.041	0.034	
14			Avg:	3.396	0.015	0	0.041	0.034	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.396	0.015	0	0.041	0.034	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 3000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.682	0.015	0	0.044	0.037	
5			2	3.703	0.015	0	0.043	0.038	
6			3	3.561	0.017	0	0.044	0.041	
7			4	3.578	0.016	0	0.044	0.037	
8			5	3.603	0.017	0	0.044	0.041	
9			6	3.681	0.016	0	0.044	0.038	
10			7	3.576	0.016	0	0.043	0.039	
11			8	3.669	0.015	0	0.043	0.037	
12			9	3.532	0.014	0	0.044	0.035	
13			10	3.612	0.014	0	0.044	0.034	
14			Avg:	3.62	0.016	0	0.044	0.038	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.62	0.016	0	0.044	0.038	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 1000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.4	0.015	0	0.044	0.035	
5			2	3.376	0.015	0	0.043	0.035	
6			3	3.22	0.016	0	0.043	0.035	
7			4	3.403	0.014	0	0.043	0.032	
8			5	3.316	0.014	0	0.043	0.032	
9			6	3.248	0.016	0	0.042	0.036	
10			7	3.381	0.014	0	0.043	0.033	
11			8	3.296	0.015	0	0.042	0.034	
12			9	3.331	0.016	0	0.042	0.037	
13			10	3.226	0.014	0	0.043	0.031	
14			Avg:	3.32	0.015	0	0.043	0.034	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.835	0.015	0	0.04	0.035	
5			2	3.63	0.015	0	0.04	0.034	
6			3	3.645	0.017	0	0.04	0.039	
7			4	3.578	0.015	0	0.04	0.033	
8			5	3.772	0.014	0	0.04	0.034	
9			6	3.54	0.015	0	0.04	0.033	
10			7	3.765	0.017	0	0.039	0.04	
11			8	3.727	0.017	0	0.04	0.038	
12			9	3.794	0.015	0	0.04	0.034	
13			10	3.699	0.017	0	0.039	0.038	
14			Avg:	3.699	0.016	0	0.04	0.036	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.699	0.016	0	0.04	0.036	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.78	0.017	0	0.041	0.042	
5			2	3.926	0.017	0	0.042	0.043	
6			3	3.821	0.019	0	0.041	0.048	
7			4	3.902	0.02	0	0.041	0.05	
8			5	3.717	0.019	0	0.042	0.045	
9			6	3.904	0.017	0	0.042	0.043	
10			7	3.923	0.017	0	0.042	0.043	
11			8	3.78	0.017	0	0.042	0.043	
12			9	3.896	0.017	0	0.042	0.044	
13			10	3.92	0.017	0	0.042	0.043	
14			Avg:	3.857	0.018	0	0.042	0.044	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.857	0.018	0	0.042	0.044	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.586	0.021	0	0.043	0.051	
5			2	3.447	0.022	0	0.043	0.052	
6			3	3.49	0.02	0	0.042	0.049	
7			4	3.574	0.02	0	0.043	0.05	
8			5	3.548	0.019	0	0.043	0.047	
9			6	3.483	0.02	0	0.043	0.048	
10			7	3.601	0.019	0	0.042	0.048	
11			8	3.555	0.02	0	0.042	0.05	
12			9	3.52	0.019	0	0.043	0.047	
13			10	3.425	0.022	0	0.043	0.053	
14			Avg:	3.523	0.02	0	0.043	0.05	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.523	0.02	0	0.043	0.05	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.453	0.018	0	0.045	0.041	
5			2	3.412	0.017	0	0.046	0.039	
6			3	3.424	0.02	0	0.046	0.044	
7			4	3.543	0.017	0	0.046	0.041	
8			5	3.541	0.017	0	0.046	0.039	
9			6	3.509	0.017	0	0.046	0.04	
10			7	3.462	0.017	0	0.046	0.039	
11			8	3.479	0.018	0	0.046	0.041	
12			9	3.287	0.017	0	0.045	0.038	
13			10	3.363	0.019	0	0.046	0.043	
14			Avg:	3.447	0.018	0	0.046	0.041	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.447	0.018	0	0.046	0.041	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.809	0.017	0	0.041	0.043	
5			2	3.777	0.017	0	0.042	0.042	
6			3	3.754	0.017	0	0.041	0.043	
7			4	3.715	0.018	0	0.041	0.043	
8			5	3.766	0.019	0	0.042	0.047	
9			6	3.78	0.019	0	0.041	0.047	
10			7	3.774	0.017	0	0.042	0.043	
11			8	3.754	0.017	0	0.042	0.042	
12			9	3.756	0.018	0	0.042	0.044	
13			10	3.697	0.017	0	0.042	0.042	
14			Avg:	3.758	0.018	0	0.042	0.044	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.758	0.018	0	0.042	0.044	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.882	0.015	0	0.04	0.04	
5			2	3.942	0.018	0	0.039	0.046	
6			3	3.961	0.015	0	0.039	0.04	
7			4	3.966	0.015	0	0.04	0.039	
8			5	3.917	0.015	0	0.039	0.039	
9			6	3.86	0.015	0	0.04	0.038	
10			7	3.874	0.015	0	0.04	0.039	
11			8	3.778	0.015	0	0.04	0.038	
12			9	3.888	0.015	0	0.039	0.039	
13			10	3.799	0.015	0	0.04	0.038	
14			Avg:	3.887	0.015	0	0.04	0.04	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.887	0.015	0	0.04	0.04	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.731	0.016	0	0.039	0.038	
5			2	3.724	0.018	0	0.039	0.043	
6			3	3.763	0.016	0	0.039	0.039	
7			4	3.685	0.016	0	0.039	0.038	
8			5	3.777	0.016	0	0.039	0.039	
9			6	3.73	0.016	0	0.038	0.038	
10			7	3.755	0.017	0	0.039	0.041	
11			8	3.745	0.018	0	0.038	0.042	
12			9	3.806	0.017	0	0.038	0.04	
13			10	3.843	0.016	0	0.039	0.04	
14			Avg:	3.756	0.017	0	0.039	0.04	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.756	0.017	0	0.039	0.04	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.019	0.016	0	0.04	0.042	
5			2	4.005	0.016	0	0.04	0.041	
6			3	4.016	0.019	0	0.04	0.049	
7			4	4.063	0.016	0	0.039	0.042	
8			5	3.949	0.016	0	0.039	0.042	
9			6	4.01	0.016	0	0.04	0.042	
10			7	4.036	0.018	0	0.039	0.047	
11			8	4.031	0.018	0	0.04	0.046	
12			9	3.997	0.016	0	0.041	0.042	
13			10	3.96	0.018	0	0.04	0.046	
14			Avg:	4.009	0.017	0	0.04	0.044	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			4.009	0.017	0	0.04	0.044	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 3000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.189	0.014	0	0.043	0.03	
5			2	3.185	0.012	0	0.043	0.027	
6			3	3.255	0.012	0	0.042	0.027	
7			4	3.278	0.012	0	0.042	0.028	
8			5	3.235	0.012	0	0.042	0.027	
9			6	3.264	0.012	0	0.043	0.028	
10			7	3.278	0.015	0	0.042	0.033	
11			8	3.384	0.012	0	0.043	0.028	
12			9	3.421	0.015	0	0.043	0.034	
13			10	3.209	0.012	0	0.042	0.028	
14			Avg:	3.27	0.013	0	0.043	0.029	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.27	0.013	0	0.043	0.029	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 3000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.507	0.014	0	0.045	0.034	
5			2	3.539	0.015	0	0.044	0.038	
6			3	3.4	0.016	0	0.044	0.037	
7			4	3.401	0.014	0	0.045	0.033	
8			5	3.486	0.014	0	0.045	0.034	
9			6	3.409	0.014	0	0.045	0.035	
10			7	3.425	0.014	0	0.045	0.033	
11			8	3.454	0.014	0	0.045	0.035	
12			9	3.435	0.016	0	0.045	0.038	
13			10	3.402	0.015	0	0.045	0.036	
14			Avg:	3.446	0.015	0	0.045	0.035	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.446	0.015	0	0.045	0.035	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 1000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.12	0.016	0	0.044	0.035	
5			2	3.186	0.014	0	0.043	0.032	
6			3	3.133	0.017	0	0.042	0.037	
7			4	3.196	0.015	0	0.042	0.033	
8			5	3.218	0.015	0	0.043	0.033	
9			6	3.164	0.016	0	0.041	0.035	
10			7	3.174	0.016	0	0.042	0.037	
11			8	3.007	0.015	0	0.042	0.032	
12			9	3.062	0.015	0	0.041	0.033	
13			10	3.083	0.014	0	0.042	0.032	
14			Avg:	3.134	0.015	0	0.042	0.034	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.134	0.015	0	0.042	0.034	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 START OF TESTING								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.141	0.018	0	0.043	0.039	
5			2	2.896	0.015	0	0.043	0.032	
6			3	2.845	0.015	0	0.043	0.031	
7			4	2.948	0.014	0	0.043	0.03	
8			5	2.95	0.014	0.005	0.043	0.03	
9			6	2.92	0.015	0	0.043	0.031	
10			7	2.899	0.017	0	0.043	0.034	
11			8	2.953	0.015	0	0.043	0.032	
12			9	2.903	0.015	0.005	0.043	0.031	
13			10	2.874	0.015	0.005	0.043	0.031	
14			Avg:	2.933	0.015	0.002	0.043	0.032	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.933	0.015	0.002	0.043	0.032	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 1000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.608	0.016	0.006	0.045	0.039	
5			2	3.555	0.016	0.005	0.045	0.038	
6			3	3.553	0.015	0	0.044	0.037	
7			4	3.558	0.015	0.004	0.045	0.037	
8			5	3.56	0.017	0.005	0.044	0.041	
9			6	3.572	0.016	0	0.044	0.039	
10			7	3.615	0.016	0.005	0.045	0.039	
11			8	3.585	0.015	0.004	0.044	0.037	
12			9	3.573	0.015	0.004	0.045	0.038	
13			10	3.559	0.017	0.004	0.044	0.042	
14			Avg:	3.574	0.016	0.004	0.045	0.039	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.574	0.016	0.004	0.045	0.039	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 5000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.236	0.02	0	0.045	0.044	
5			2	3.246	0.015	0	0.041	0.033	
6			3	3.391	0.014	0	0.042	0.034	
7			4	3.185	0.014	0	0.042	0.032	
8			5	3.241	0.013	0	0.041	0.031	
9			6	3.223	0.016	0	0.041	0.036	
10			7	3.269	0.013	0	0.042	0.031	
11			8	3.241	0.014	0	0.042	0.032	
12			9	3.212	0.013	0	0.041	0.031	
13			10	3.345	0.014	0	0.042	0.032	
14			Avg:	3.259	0.015	0	0.042	0.034	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.259	0.015	0	0.042	0.034	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 1000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	2.988	0.015	0	0.043	0.031	
5			2	2.999	0.015	0	0.043	0.033	
6			3	2.871	0.014	0	0.043	0.029	
7			4	2.838	0.015	0	0.043	0.03	
8			5	2.838	0.014	0	0.042	0.028	
9			6	2.951	0.013	0	0.043	0.028	
10			7	2.999	0.015	0	0.043	0.032	
11			8	3.004	0.014	0	0.043	0.03	
12			9	2.926	0.014	0	0.043	0.031	
13			10	2.973	0.015	0	0.043	0.031	
14			Avg:	2.939	0.014	0	0.043	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			2.939	0.014	0	0.043	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 1000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.414	0.018	0	0.046	0.045	
5			2	3.408	0.016	0	0.044	0.038	
6			3	3.353	0.016	0	0.045	0.036	
7			4	3.351	0.016	0	0.045	0.036	
8			5	3.439	0.017	0	0.045	0.039	
9			6	3.442	0.016	0	0.045	0.037	
10			7	3.369	0.016	0	0.045	0.036	
11			8	3.389	0.016	0	0.045	0.039	
12			9	3.372	0.016	0	0.045	0.037	
13			10	3.471	0.015	0	0.045	0.036	
14			Avg:	3.401	0.016	0	0.045	0.038	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.401	0.016	0	0.045	0.038	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 6000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.092	0.019	0	0.042	0.04	
5			2	3.197	0.016	0	0.041	0.035	
6			3	3.134	0.014	0	0.041	0.031	
7			4	3.124	0.014	0	0.042	0.031	
8			5	3.164	0.016	0	0.04	0.035	
9			6	3.159	0.015	0	0.041	0.033	
10			7	3.189	0.014	0	0.04	0.032	
11			8	3.142	0.014	0	0.041	0.03	
12			9	3.166	0.014	0	0.042	0.031	
13			10	3.149	0.014	0	0.041	0.032	
14			Avg:	3.152	0.015	0	0.041	0.033	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.152	0.015	0	0.041	0.033	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 1000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.101	0.014	0	0.043	0.03	
5			2	3.023	0.012	0	0.043	0.024	
6			3	2.953	0.013	0	0.042	0.027	
7			4	3.009	0.012	0	0.042	0.026	
8			5	2.982	0.012	0	0.042	0.026	
9			6	3.009	0.012	0	0.042	0.026	
10			7	2.98	0.012	0	0.042	0.026	
11			8	2.985	0.011	0	0.043	0.024	
12			9	3.02	0.014	0	0.043	0.028	
13			10	2.988	0.011	0	0.043	0.024	
14			Avg:	3.005	0.012	0	0.043	0.026	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.005	0.012	0	0.043	0.026	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 7000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.524	0.014	0	0.045	0.034	
5			2	3.481	0.018	0	0.045	0.042	
6			3	3.477	0.017	0	0.045	0.042	
7			4	3.446	0.017	0	0.044	0.039	
8			5	3.591	0.017	0	0.045	0.041	
9			6	3.463	0.017	0	0.045	0.041	
10			7	3.309	0.018	0	0.045	0.042	
11			8	3.493	0.016	0	0.045	0.038	
12			9	3.5	0.016	0	0.045	0.039	
13			10	3.436	0.016	0	0.045	0.038	
14			Avg:	3.472	0.017	0	0.045	0.04	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.472	0.017	0	0.045	0.04	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 6000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.279	0.017	0	0.042	0.038	
5			2	3.218	0.016	0	0.042	0.035	
6			3	3.2	0.017	0.006	0.042	0.036	
7			4	3.254	0.018	0.005	0.043	0.04	
8			5	3.231	0.016	0.005	0.042	0.036	
9			6	3.253	0.016	0.006	0.043	0.035	
10			7	3.337	0.018	0	0.043	0.039	
11			8	3.265	0.016	0	0.042	0.036	
12			9	3.296	0.016	0.005	0.043	0.035	
13			10	3.297	0.018	0	0.043	0.039	
14			Avg:	3.263	0.017	0.003	0.043	0.037	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.263	0.017	0.003	0.043	0.037	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A16 1000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.32	0.014	0	0.043	0.031	
5			2	3.324	0.013	0	0.043	0.03	
6			3	3.358	0.013	0	0.043	0.03	
7			4	3.204	0.013	0	0.043	0.029	
8			5	3.255	0.013	0	0.043	0.029	
9			6	3.166	0.015	0	0.043	0.033	
10			7	3.258	0.013	0	0.043	0.03	
11			8	3.308	0.014	0	0.043	0.03	
12			9	3.253	0.013	0	0.043	0.03	
13			10	3.295	0.014	0	0.043	0.03	
14			Avg:	3.274	0.014	0	0.043	0.03	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.274	0.014	0	0.043	0.03	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A18 8000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.487	0.018	0	0.046	0.043	
5			2	3.442	0.018	0	0.045	0.042	
6			3	3.413	0.018	0	0.046	0.041	
7			4	3.439	0.017	0	0.045	0.041	
8			5	3.414	0.016	0	0.045	0.038	
9			6	3.414	0.017	0	0.045	0.039	
10			7	3.387	0.016	0	0.045	0.038	
11			8	3.447	0.017	0	0.045	0.04	
12			9	3.479	0.016	0	0.046	0.038	
13			10	3.484	0.016	0	0.045	0.039	
14			Avg:	3.441	0.017	0	0.045	0.04	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.441	0.017	0	0.045	0.04	0.00 ms

	A	B	C	D	E	F	G	H	I
1	XR100 DAT A20 6000								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	XR100		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.324	0.017	0.008	0.043	0.038	
5			2	3.399	0.017	0.006	0.043	0.037	
6			3	3.449	0.018	0.006	0.042	0.039	
7			4	3.427	0.017	0.006	0.043	0.037	
8			5	3.602	0.016	0.006	0.043	0.038	
9			6	3.453	0.017	0.006	0.043	0.038	
10			7	3.466	0.017	0.006	0.043	0.038	
11			8	3.38	0.016	0.006	0.043	0.036	
12			9	3.629	0.017	0.007	0.044	0.04	
13			10	3.68	0.019	0.006	0.043	0.045	
14			Avg:	3.481	0.017	0.006	0.043	0.039	0.00 ms
15									
16									
17	TOTAL AVG								
18	Single Action			3.481	0.017	0.006	0.043	0.039	0.00 ms

Engineer:	Ronkainen
Project #:	241285
TLW #:	2358
Date Submitted:	8/29/2007
Requested Completion Date:	9/14/2007

Test Description: Audit XMP (X-Mark Pro) trigger pull forces for marketing on approximately 50 production firearms from OHL utilizing two different methods: (1) using a production spring scale and (2) the Dvorak TriggerScan unit.

Test Procedure:

Trigger Pull Audit Plan

- Verify calibration of the Dvorak TriggerScan per the User Manual's procedure. *(DONE)*
- Verify calibration of the production spring scale prior to starting the audit and as needed during the course of the audit..

Trigger Pull Measurement Process

1. Unpack guns from multi-packs one gun at a time.
2. Have no more than two guns unpacked at any one time to minimize the possibility of parts getting lost or mixed up.
3. ***Handle the guns with extreme care as they are salable product and will be returned to the warehouse after completion of the trigger pull force audit.***
4. Assemble the gun's bolt to the action. After verifying the action is clear of ammunition, manually verify trigger function by dry firing the rifle several times in a safe direction.
5. Record the appropriate information for the gun on the datasheet (SKU, S/N, etc.) prior to conducting any testing.
6. Mount the gun securely in a non-marring gun vise or cradle.
7. Measure and record trigger pull of the gun with the spring scale per the current production process indicated in the process records. *This measurement will be made by someone from Ilion using a production spring scale from Ilion.*
8. Carefully remove the gun from the gun vise or cradle.
9. Carefully disassemble the action from the stock setting aside the stock and trigger guard components so that they will not be damaged.
10. Mount the action in the Dvorak TriggerScan fixture with the barrel bracket tight against the front surface of the V-block and with the top clamp's hold down screw tip approximately aligned with the rearmost scope plug screw on the front receiver bridge. Ensure the trigger's shoe is centered on the V-roller on the TriggerScan arm so that both sides of the roller's V contact the trigger and then tighten the clamping screw. ***Make sure the clamp's screw does not contact the top of the receiver or it may mar it.*** When properly secured in the TriggerScan fixture, the action cannot move with respect to the fixture.

audit.

4. Assemble the gun's bolt to the action. After verifying the action is clear of ammunition, manually verify trigger function by dry firing the rifle several times in a safe direction.
5. Record the appropriate information for the gun on the datasheet (SKU, S/N, etc.) prior to conducting any testing.
6. Mount the gun securely in a non-marring gun vise or cradle.
7. Measure and record trigger pull of the gun with the spring scale per the current production process indicated in the process records. *This measurement will be made by someone from Ilion using a production spring scale from Ilion.*
8. Carefully remove the gun from the gun vise or cradle.
9. Carefully disassemble the action from the stock setting aside the stock and trigger guard components so that they will not be damaged.
10. Mount the action in the Dvorak TriggerScan fixture with the barrel bracket tight against the front surface of the V-block and with the top clamp's hold down screw tip approximately aligned with the rearmost scope plug screw on the front receiver bridge. Ensure the trigger's shoe is centered on the V-roller on the TriggerScan arm so that both sides of the roller's V contact the trigger and then tighten the clamping screw. ***Make sure the clamp's screw does not contact the top of the receiver or it may mar it.*** When properly secured in the TriggerScan fixture, the action cannot move with respect to the fixture.

	A	B	C	L	M	N	O	P	Q
34									
35									

Special Requirements:	Handle the guns with extreme care as they are salable product and will be returned to the warehouse after completion of the trigger pull force audit.	
Supplies Availability:	Guns for this test will be ordered by marketing from OHL for delivery to E'town. I will provide the exact delivery date(s) as soon as they are available.	
Results Required:	Data Only	

********This section to be completed by Test Lab Manager*******

Assigned To:	Wade, Steve	**Start Date:**	
Assigned Date:	8/30/2007	**Completion Date:**	
Comments:			

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Trigger Pull Audit Procedure (cont'd).

11. Enter the appropriate firearm information for the rifle into TriggerScan program (fill in all fields on the computer screen).
12. With the safety in the ON or SAFE position, close the bolt and gently move the safety to the OFF or FIRE position. Make 5 trigger pull measurements cycling the safety between each pull. Take care to lower the safety in the same manner each time to maintain uniform measurements.
13. Save the TriggerScan results for each gun as a separate *.trg file using the gun's S/N as the unique file identifier. Save the file in the directory associated with this TLW on the server.
14. Also save the TriggerScan results for each gun as a separate *.csv file using the gun's S/N as the unique file identifier. Save the file in the directory associated with this TLW on the server (same directory as previous step).
15. Trigger pull force data should be copied and pasted from the *.csv file directly into the data form supplied with this TLW. Do not transcribe and enter the measurement data into the datasheet manually.
16. Carefully remove the action from the TriggerScan fixture and visually verify that no damage was done to the action. If the scope plug screw is visibly damaged, replace it.
17. Reassemble the action to the stock. Verify that the magazine and trigger guard are properly seated. Cycle the action to verify it functions properly.
18. Have two qualified gun handlers verify the gun is unloaded before repacking the rifle in its shipping box.
19. Remove the bolt from the action and place it in the appropriate location inside the packing box.
20. Repack the gun in its original packing box. Verify the firearm's serial number is the same as that shown on the box end label before sealing the box with fiberglass reinforced packing tape. Place a sticker on the box end label to identify the firearm as having had its trigger pull force checked.
21. Repack and reseal the multi-pack of guns after all guns from the pack have been measured.
22. After all of the guns in a multi-pack have been measured, get another multi-pack of guns and continue the test.
23. Repeat this procedure from step 1 again until all firearms have been measured.

17. Reassemble the action to the stock. Verify that the magazine and trigger guard are properly seated. Cycle the action to verify it functions properly.
18. Have two qualified gun handlers verify the gun is unloaded before repacking the rifle in its shipping box.
19. Remove the bolt from the action and place it in the appropriate location inside the packing box.
20. Repack the gun in its original packing box. Verify the firearm's serial number is the same as that shown on the box end label before sealing the box with fiberglass reinforced packing tape. Place a sticker on the box end label to identify the firearm as having had its trigger pull force checked.
21. Repack and reseal the multi-pack of guns after all guns from the pack have been measured.
22. After all of the guns in a multi-pack have been measured, get another multi-pack of guns and continue the test.
23. Repeat this procedure from step 1 again until all firearms have been measured.

46	
47	
48	
49	
50	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2	**Gun #**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**
3	**SKU**													
4	**Description**													
5	**S/N**													
6														
7	**Tester**													
8	**TP1**													
9	**TP2**													
10	**TP3**													
11	**Avg**	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
12	**SD**	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
13														
14	**Tester**													
15	**TP1**													
16	**TP2**													
17	**TP3**													
18	**TP4**													
19	**TP5**													
20	**Avg**	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
21	**SD**	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1															
2	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**
3															
4															
5															
6															
7															
8															
9															
10															
11	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
12	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
13															
14															
15															
16															
17															
18															
19															
20	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
21	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
1															
2	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**
3															
4															
5															
6															
7															
8															
9															
10															
11	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
12	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
13															
14															
15															
16															
17															
18															
19															
20	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
21	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

	AS	AT	AU	AV	AW	AX	AY
1							
2	**44**	**45**	**46**	**47**	**48**	**49**	**50**
3							
4							
5							
6							
7							
8							
9							
10							
11	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
12	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
13							
14							
15							
16							
17							
18							
19							
20	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
21	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Trigger Pull Audit Plan

- Verify calibration of the Dvorak TriggerScan per the User Manual's procedure. *(DONE)*
- Verify calibration of the production spring scale prior to starting the audit and as needed during the course of the audit..

Trigger Pull Measurement Process

1. Unpack guns from multi-packs one gun at a time.
2. Have no more than two guns unpacked at any one time to minimize the possibility of parts getting lost or mixed up.
3. ***Handle the guns with extreme care as they are salable product and will be returned to the warehouse after completion of the trigger pull force audit.***
4. Assemble the gun's bolt to the action. After verifying the action is clear of ammunition, manually verify trigger function by dry firing the rifle several times in a safe direction.
5. Record the appropriate information for the gun on the datasheet (SKU, S/N, etc.) prior to conducting any testing.
6. Mount the gun securely in a non-marring gun vise or cradle.
7. Measure and record trigger pull of the gun with the spring scale per the current production process indicated in the process records. *This measurement will be made by someone from Ilion using a production spring scale from Ilion.*
8. Carefully remove the gun from the gun vise or cradle.
9. Carefully disassemble the action from the stock setting aside the stock and trigger guard components so that they will not be damaged.
10. Mount the action in the Dvorak TriggerScan fixture with the barrel bracket tight against the front surface of the V-block and with the top clamp's hold down screw tip approximately aligned with the rearmost scope plug screw on the front receiver bridge. Ensure the trigger's shoe is centered on the V-roller on the TriggerScan arm so that both sides of the roller's V contact the trigger and then tighten the clamping screw. ***Make sure the clamp's screw does not contact the top of the receiver or it may mar it.*** When properly secured in the TriggerScan fixture, the action cannot move with respect to the fixture.

Trigger Pull Audit Procedure (cont'd).

11. Enter the appropriate firearm information for the rifle into TriggerScan program (fill in all fields on the computer screen).
12. With the safety in the ON or SAFE position, close the bolt and gently move the safety to the OFF or FIRE position. Make 5 trigger pull measurements cycling the safety between each pull. Take care to lower the safety in the same manner each time to maintain uniform measurements.
13. Save the TriggerScan results for each gun as a separate *.trg file using the gun's S/N as the unique file identifier. Save the file in the directory associated with this TLW on the server.
14. Also save the TriggerScan results for each gun as a separate *.csv file using the gun's S/N as the unique file identifier. Save the file in the directory associated with this TLW on the server (same directory as previous step).
15. Trigger pull force data should be copied and pasted from the *.csv file directly into the data form supplied with this TLW. Do not transcribe and enter the measurement data into the datasheet manually.
16. Carefully remove the action from the TriggerScan fixture and visually verify that no damage was done to the action. If the scope plug screw is visibly damaged, replace it.
17. Reassemble the action to the stock. Verify that the magazine and trigger guard are properly seated. Cycle the action to verify it functions properly.
18. Have two qualified gun handlers verify the gun is unloaded before repacking the rifle in its shipping box.
19. Remove the bolt from the action and place it in the appropriate location inside the packing box.
20. Repack the gun in its original packing box. Verify the firearm's serial number is the same as that shown on the box end label before sealing the box with fiberglass reinforced packing tape. Place a sticker on the box end label to identify the firearm as having had its trigger pull force checked.
21. Repack and reseal the multi-pack of guns after all guns from the pack have been measured.
22. After all of the guns in a multi-pack have been measured, get another multi-pack of guns and continue the test.
23. Repeat this procedure from step 1 again until all firearms have been measured.

XMP Trigger Pull force Study - TLW 2358

Background

The following analysis relates to a study done to characterize the trigger pull forces as found in a sample of 50 firearms withdrawn from the warehouse using 3 different measurement methods. There were two main questions the study addressed:

1. Did the firearms sampled meet the specifications for trigger pull of 3.5 lb. minimum and 5.5 lb. maximum force?
2. Is there a statistically significant difference between the three methods of measuring the trigger pull force?

The first method evaluated and duplicated the technique and equipment used by the manufacturing plant and used a Chatillon Spring scale, (10 lb. max. range.) Method two used Lyman Digital Scale and method three used the Dvorak Trigger Pull machine currently used by the R&D site in Elizabethtown. All three devices were calibrated using the standard procedure recommended for each individual device.

Prior to the start of the study, an additional question was posed. Was there a detectable difference in trigger pull force that was dependent upon whether the safety was cycled during the operation (SC) or not cycled during the measurement operation (NSC)?

Analysis

At the start of the analysis the data was checked to determine if the distributions could be considered as Normal. See Figure 1. A test for normality, (Anderson-Darling), determined that all six test methods could be assumed to be fairly represented by Normal distributions.

A table of Descriptive Statistics (see Table 1) summarized the data from all six methods. The means for all six methods ranged from 4.2 lb. (labeled as Chatillon SC) to 5.2 lb. (labeled as Lyman SC.) The Minimum valued was 3.0 lb. (labeled as Chatillon SC) and the maximum value was 6.9 lb. (labeled as Lyman NSC.)

The total percentage of firearms that did not meet the specifications for trigger pull force ranged from 8.2% (Chatillon) to 22.4% (Lyman) depending on the method used to measure the force. (See Table 2.)

A comparison of the distributions for all six methods (See Figures 2 & 3) shows an average difference of approximately ½ lb. (i.e. .554 lb.) between the Chatillon SC method and the Dvorak SC method. Standard deviations between these two methods differed by approximately $1/10^{th}$ of a lb.

Table 3 gives the results of an ANOVA (Analysis of Variance) for the six methods and indicates that there is a statistically significant (95% C.I.) difference between the methods used with the largest difference detected between the Chatillon Spring Scale device and the other two measurement devices. The lowest average readings were taken with the Chatillon device and the highest average readings were taken with the Lyman device with the Dvorak device averaging between the other two. The biggest difference in technique (i.e. SC and NSC) was found on the Dvorak device. The other two devices did not appear to be different when comparing the SC and NSC techniques.

Tables 4 &5 and Figures 4 & 5 breaks the analysis down in terms of the two techniques (SC and NSC). Figure 7 looks at the differences between techniques (SC vs. NSC) within each method (Chatillon, Lyman, and Dvorak).

Conclusions:

1. Regardless of the method used, there were trigger pulls that were measured to be out of specifications, either about 8% of the sample or about 20% of the sample depending on the device being used. Whether the forces measured indicated that the trigger pulls were over or under the specification depended (primarily) on the device being used. The Chatillon gauge found pulls that were under the

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specification (but not out on the high side.) The Lyman and Dvorak found pulls to be out of specification on both the high and low side of the specification but, generally out on the high side. (See Table 2 for reference.)

2. There appears to be a bias (statistically significant) introduced into the measurement process by the devices being used with the Chatillon gauge measuring the same fire control approximately ½ lb. lower, on average, than the other two devices. Consequently, using the Chatillon gauge will tend to find that trigger pull forces are lower than would be found by the other two devices and would not pick up the higher forces found by the Dvorak or the Lyman.

Supporting data:

Descriptive Statistics: Chatillon SC, Chatillon NSC, Lyman SC, Lyman NSC, Dvorak SC, Dvorak NSC

Variable	Mean(lb.)	SE Mean	StDev	Minimum	Maximum	Range
Chatillon SC	4.1949	0.0767	0.5424	3.0000	5.1670	2.1670
Chatillon NSC	4.3134	0.0754	0.5328	3.1670	5.5000	2.3330
Lyman SC	5.1642	0.0957	0.6768	3.7710	6.8330	3.0620
Lyman NSC	5.1170	0.103	0.727	3.354	6.917	3.563
Dvorak SC	4.7491	0.0889	0.6289	3.4150	5.9470	2.5320
Dvorak NSC	5.0785	0.0927	0.6554	3.5620	6.4560	2.8940

Table 1

Method	Number Under Min. Spec.	Percentage Under Min. Spec. N=50	Number Over Max. Spec.	Percentage Over Max. Spec. N=50	Total Number Out of Spec.	Total Percentage Out of Spec.
Chatillon SC	4	8.2%	0	0.0%	4	8.2%
Chatillon NSC	4	8.2%	0	0.0%	4	8.2%
Lyman SC	0	0.0%	11	22.4%	11	22.4%
Lyman NSC	1	2.0%	9	18.4%	10	20.4%
Dvorak SC	2	4.1%	6	12.2%	8	16.3%
Dvorak NSC	0	0.0%	10	20.4%	10	20.4%

Note: Gun # 12 not counted in this table

Table 2

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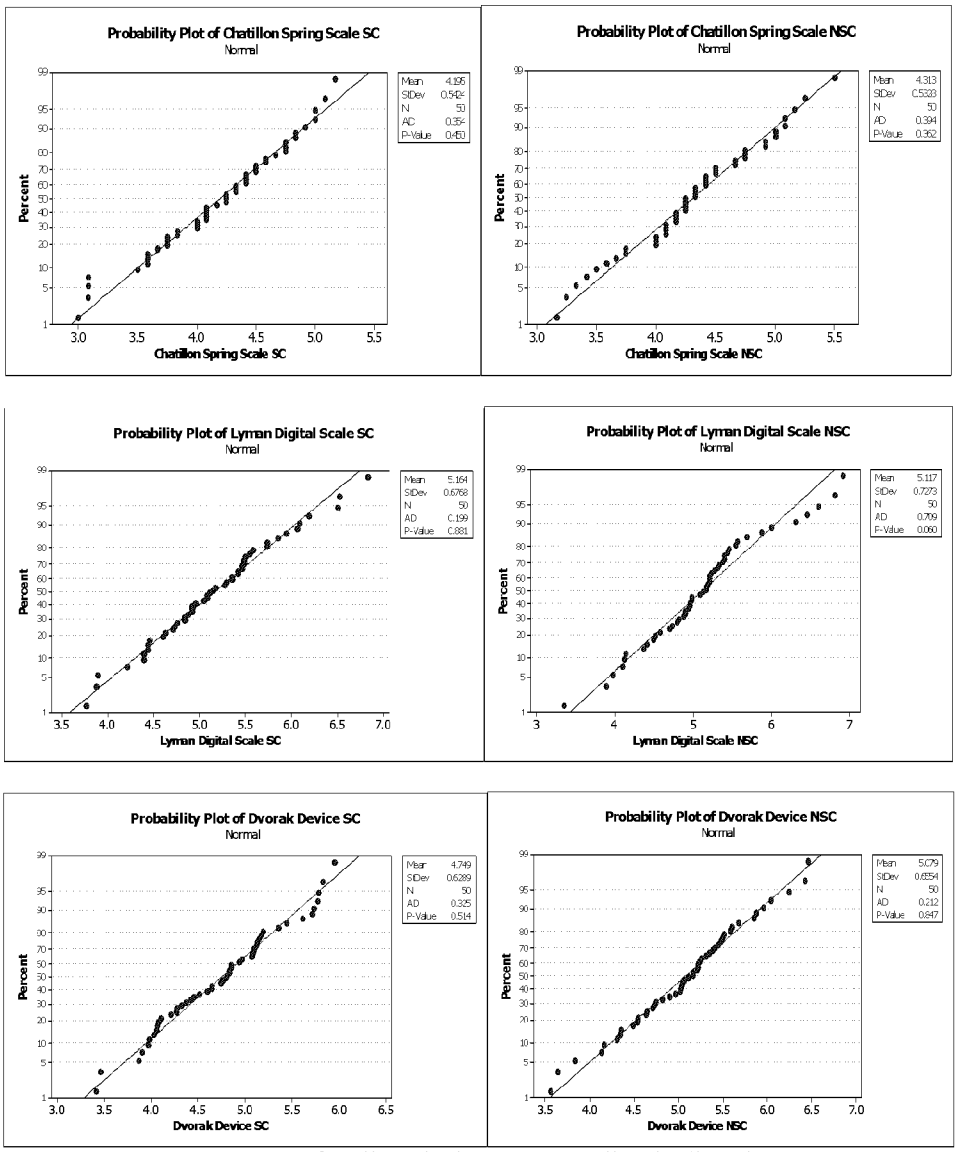

Note: Data for all Methods were Normally Distributed.

Figure 1

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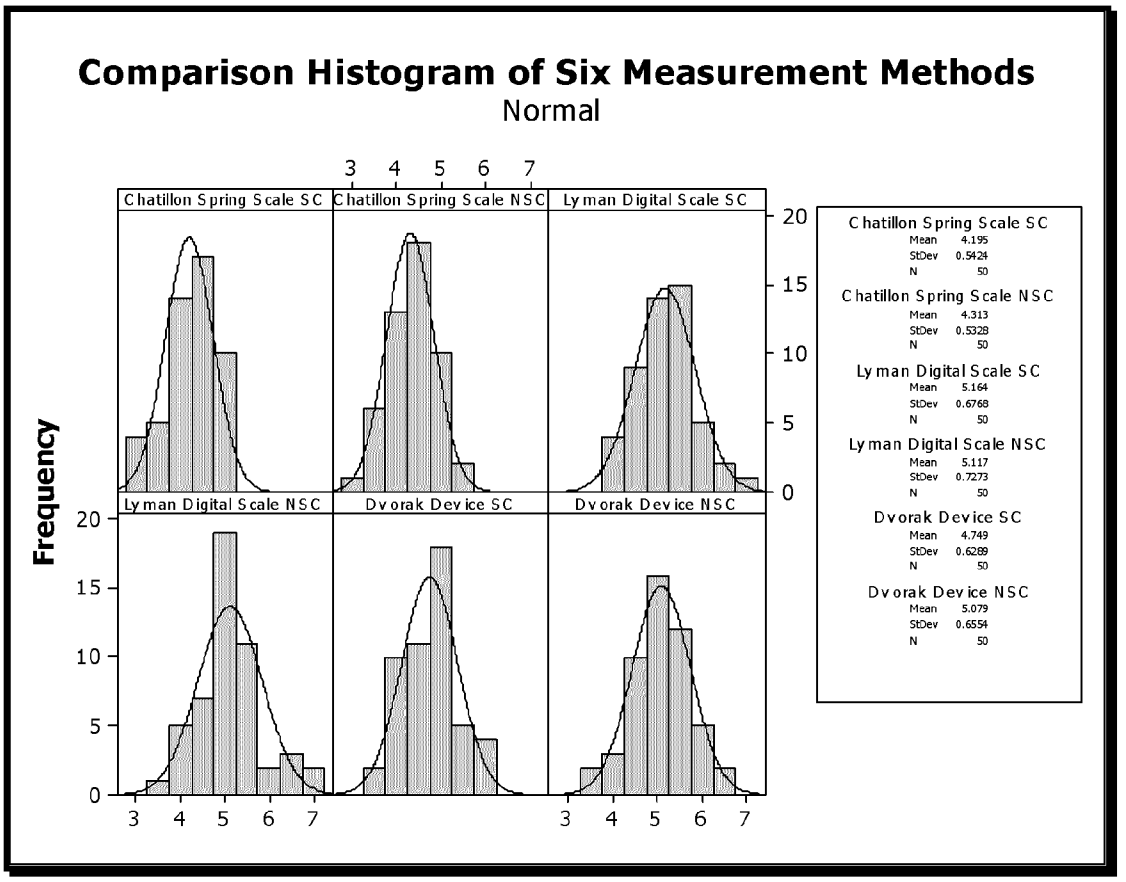

Figure 2

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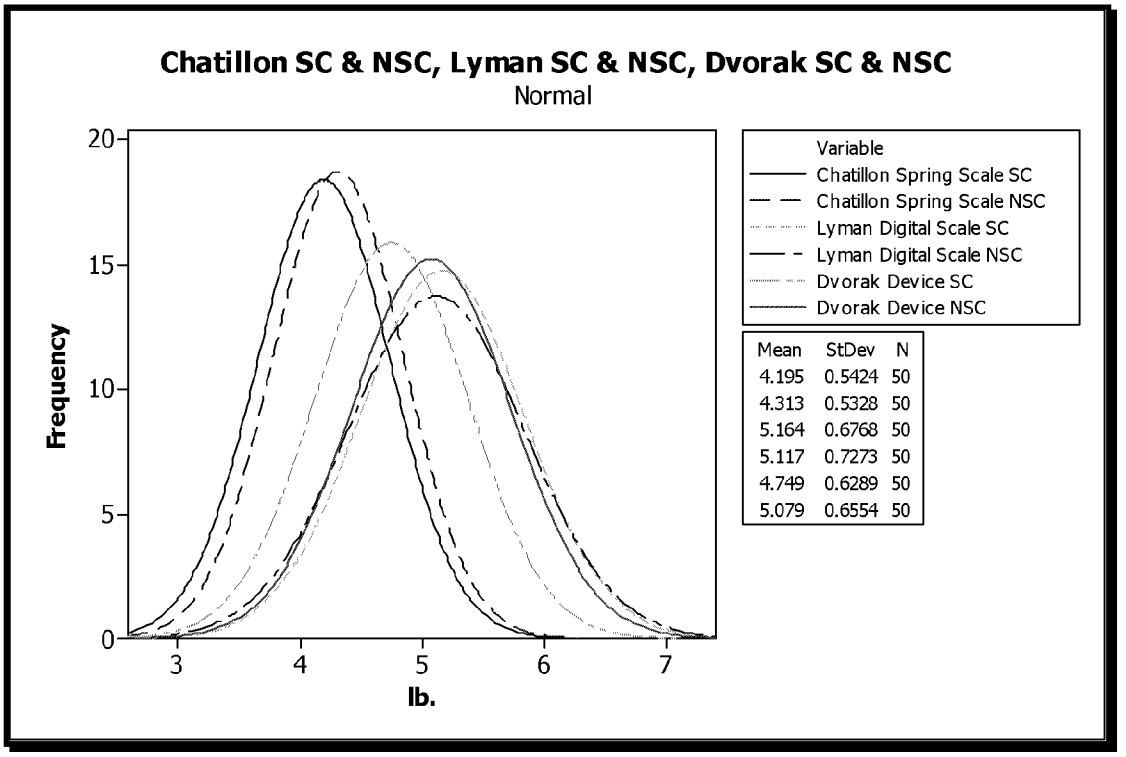

Figure 3

One-way ANOVA: Chatillon SC, Chatillon NSC, Lyman SC, Lyman NSC, Dvorak SC, & Dvorak NSC

Source	DF	SS	MS	F	P
Factor	5	45.537	9.107	22.86	0.000
Error	294	117.113	0.398		
Total	299	162.650			

S = 0.6311 R-Sq = 28.00% R-Sq(adj) = 26.77%

Level	N	Mean	StDev
Chatillon SC	50	4.1949	0.5424
Chatillon NSC	50	4.3134	0.5328
Lyman SC	50	5.1642	0.6768
Lyman NSC	50	5.1171	0.7273
Dvorak SC	50	4.7491	0.6289
Dvorak NSC	50	5.0785	0.6554

Individual 95% CIs For Mean Based on Pooled StDev

```
-----+---------+---------+---------+----
(----*----)
   (----*----)
                            (----*----)
                          (----*----)
               (----*----)
                          (----*----)
-----+---------+---------+---------+----
  4.20      4.55      4.90      5.25
```

Pooled StDev = 0.6311

Note: There is a statistically significant difference between the Dvorak SC and the Dvorak NSC methods (in red above.).

Table 3

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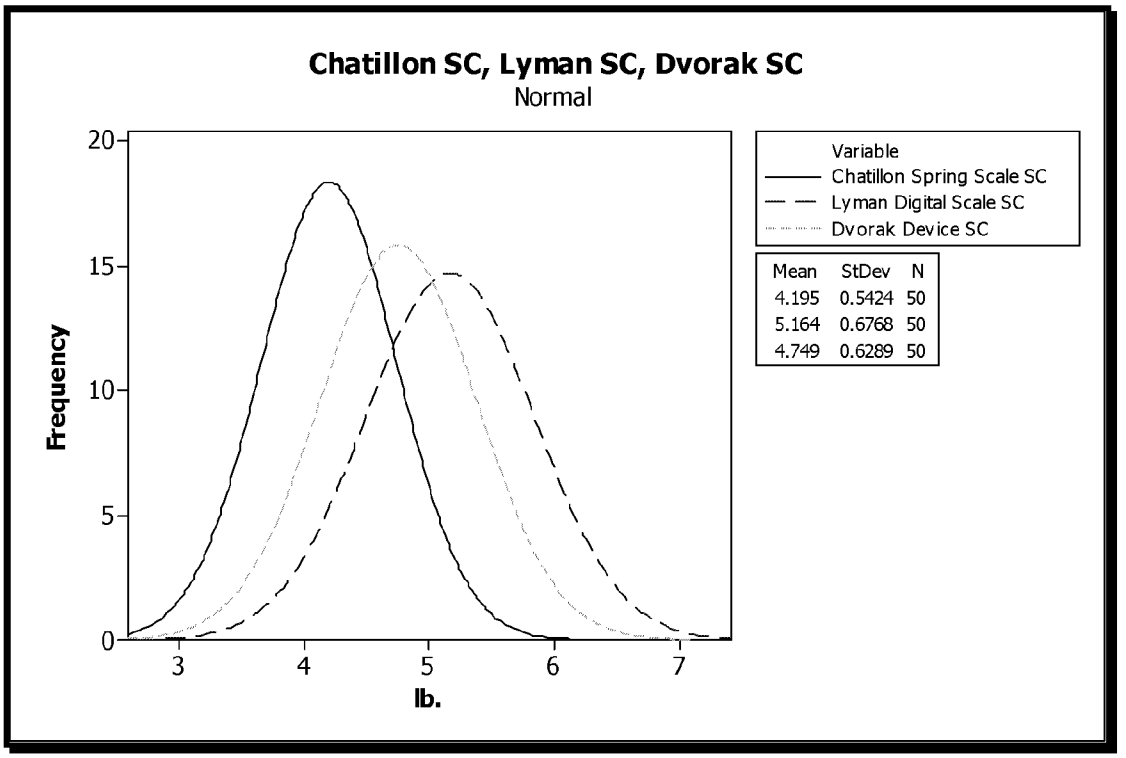

Figure 4

One-way ANOVA: Chatillon SC, Lyman SC, Dvorak SC

```
Source   DF      SS      MS      F      P
Factor    2  23.648  11.824  30.91  0.000
Error   147  56.240   0.383
Total   149  79.888

S = 0.6185   R-Sq = 29.60%   R-Sq(adj) = 28.64%

                                          Individual 95% CIs For Mean Based on
                                          Pooled StDev
Level              N    Mean   StDev  -----+---------+---------+---------+----
Chatillon SC      50  4.1949  0.5424  (----*----)
Lyman     SC      50  5.1642  0.6768                          (----*---)
Dvorak    SC      50  4.7491  0.6289                (----*----)
                                          -----+---------+---------+---------+----
                                             4.20      4.55      4.90      5.25

Pooled StDev = 0.6185
```

Table 4

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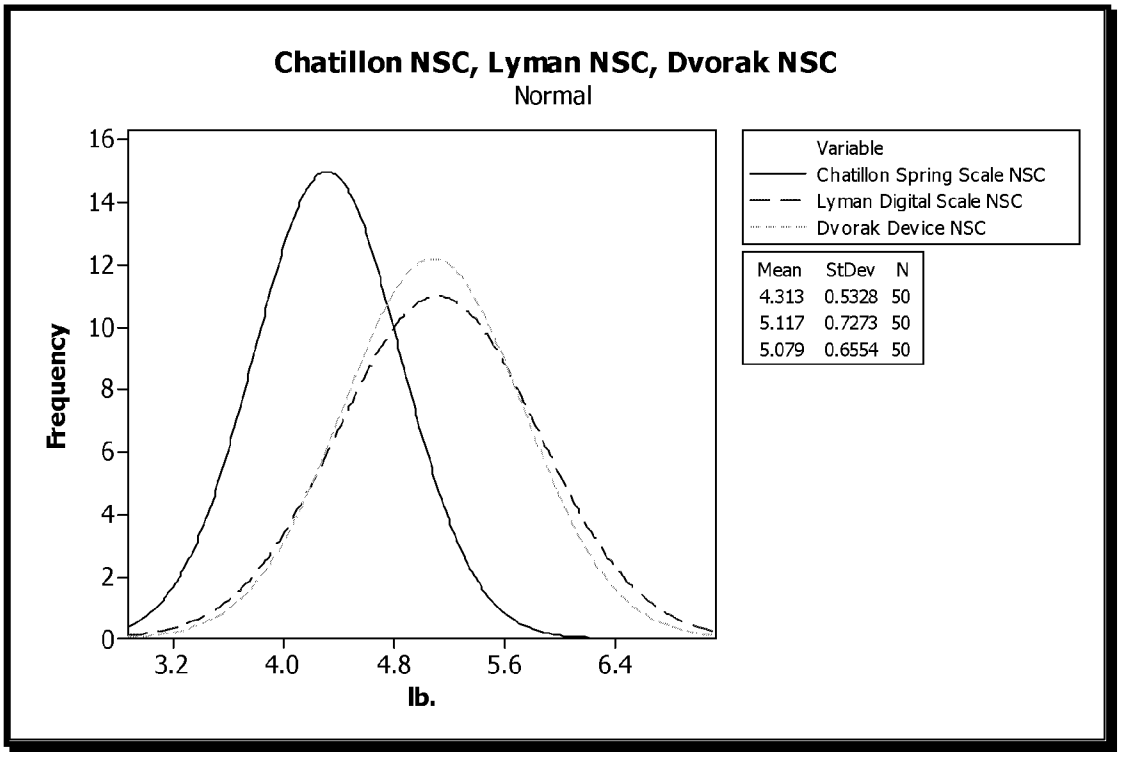

Figure 5

One-way ANOVA: Chatillon NSC, Lyman NSC, Dvorak NSC

Source	DF	SS	MS	F	P
Factor	2	20.550	10.275	24.81	0.000
Error	147	60.873	0.414		
Total	149	81.423			

S = 0.6435 R-Sq = 25.24% R-Sq(adj) = 24.22%

Level	N	Mean	StDev
Chatillon NCS	50	4.3134	0.5328
Lyman NSC	50	5.1171	0.7273
Dvorak NSC	50	5.0785	0.6554

Individual 95% CIs For Mean Based on Pooled StDev

```
--+---------+---------+---------+-------
(-----*-----)
                        (-----*-----)
                      (-----*-----)
--+---------+---------+---------+-------
4.20      4.50      4.80      5.10
```

Pooled StDev = 0.6435

Table 5

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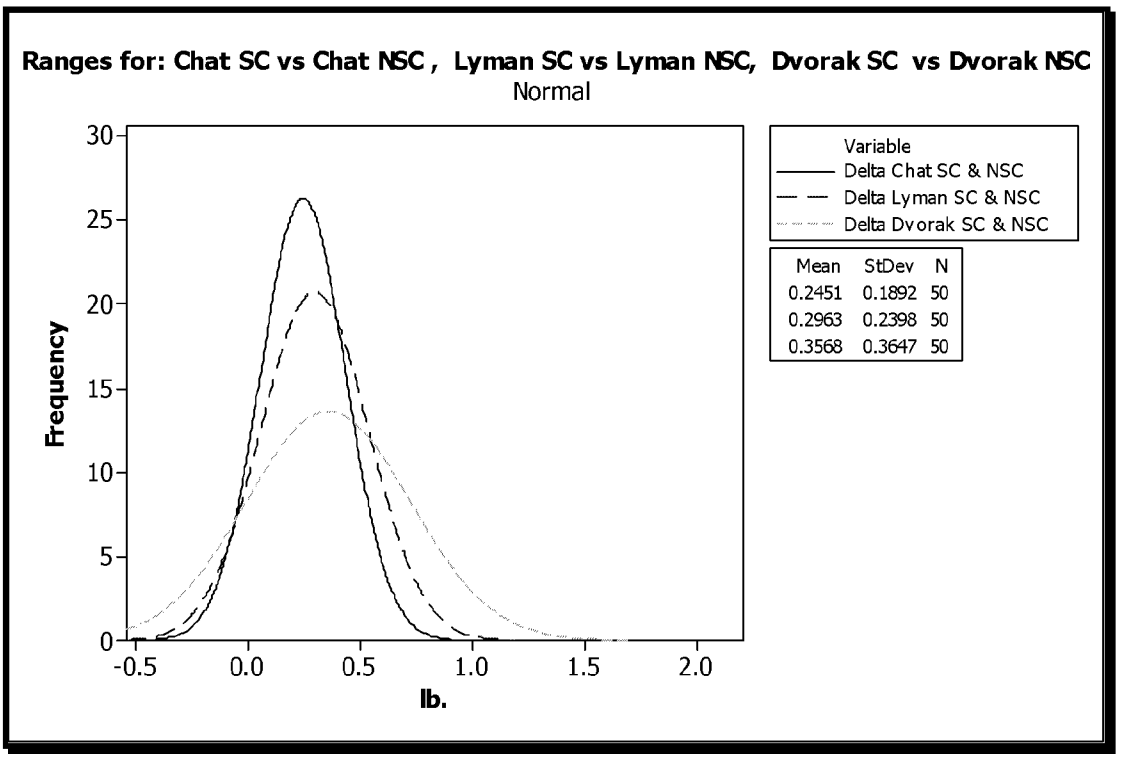

Figure 6

One-way ANOVA: Delta Chat SC & NSC, Delta Lyman SC & NSC, Delta Dvorak SC & NSC

```
Source   DF       SS      MS     F      P
Factor    2   0.3125  0.1563  2.07  0.130
Error   147  11.0899  0.0754
Total   149  11.4024

S = 0.2747   R-Sq = 2.74%   R-Sq(adj) = 1.42%

                                          Individual 95% CIs For Mean Based on
                                          Pooled StDev
Level              N    Mean   StDev  ------+---------+---------+---------+---
Delta Chat SC &   50  0.2451  0.1892  (----------*----------)
Delta Lyman SC &  50  0.2963  0.2398        (----------*----------)
Delta Dvorak SC   50  0.3568  0.3647                  (----------*----------)
                                          ------+---------+---------+---------+---
                                              0.210     0.280     0.350     0.420

Pooled StDev = 0.2747
```

Table 6

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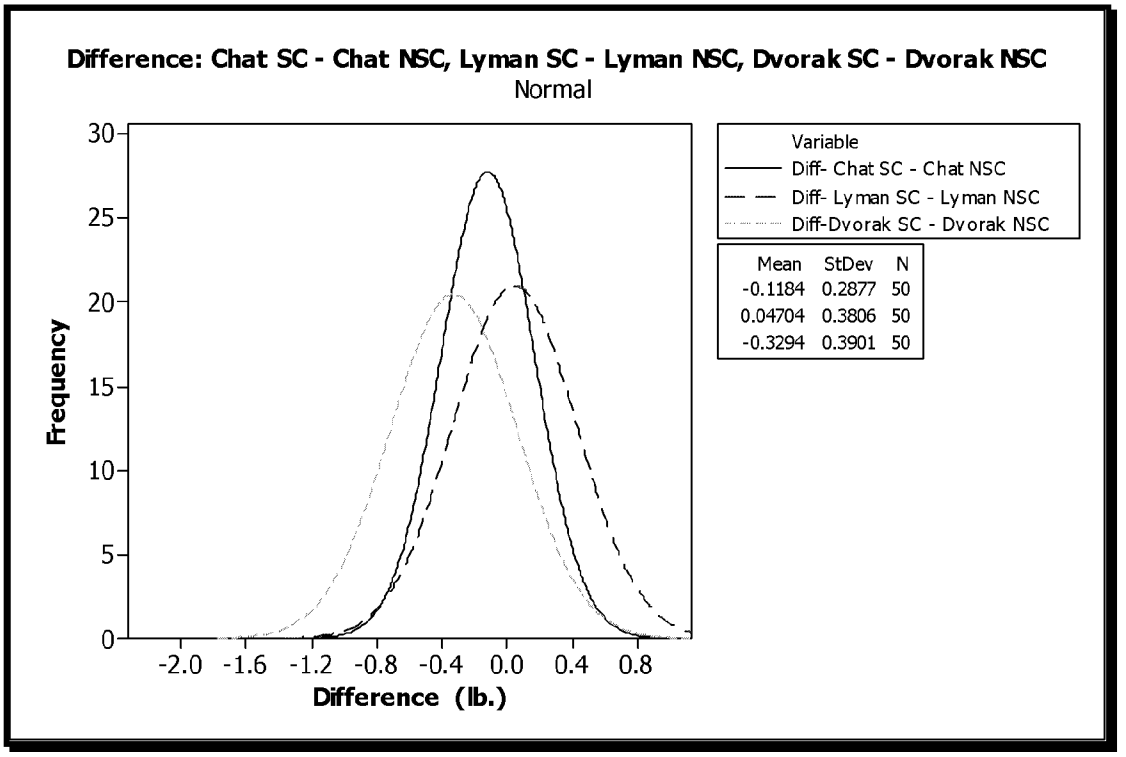

Figure 7

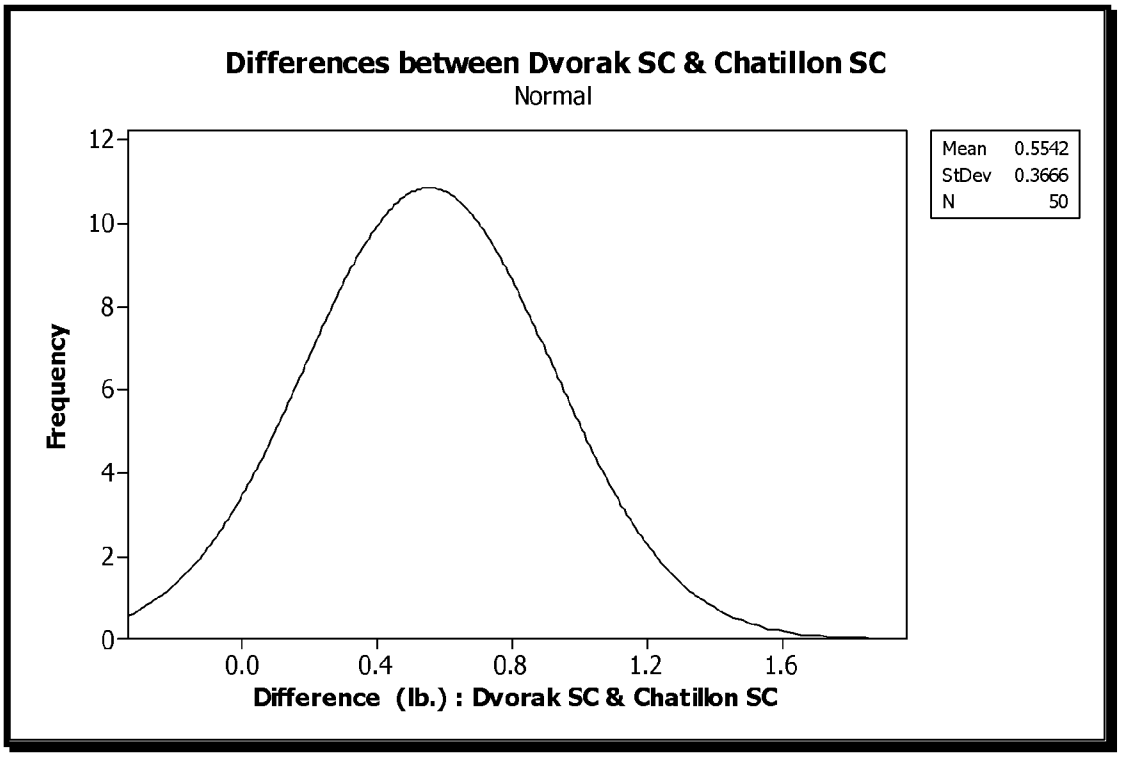

Figure 8

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	A	B	C	D	E	F	G	H	I
1	D6629503								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.258	0.018	0.005	0.032	0.064	
5			2	5.258	0.021	0.005	0.032	0.073	
6			3	5.334	0.019	0.005	0.032	0.066	
7			4	5.089	0.02	0.005	0.032	0.068	
8			5	5.141	0.02	0.005	0.031	0.067	
9			Avg:	5.216	0.02	0.005	0.032	0.068	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.216	0.02	0.005	0.032	0.068	0.00 ms

	A	B	C	D	E	F	G	H	I
1	D6629503								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.85	0.018	0.005	0.032	0.058	
5			2	4.823	0.02	0	0.032	0.066	
6			3	4.821	0.019	0.005	0.031	0.062	
7			4	4.866	0.018	0	0.033	0.059	
8			5	4.926	0.021	0.005	0.032	0.068	
9			Avg:	4.857	0.019	0.003	0.032	0.063	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.857	0.019	0.003	0.032	0.063	0.00 ms

	A	B	C	D	E	F	G	H	I
1	D6629533								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.142	0.016	0.005	0.041	0.046	
5			2	4.036	0.019	0.005	0.04	0.053	
6			3	4.016	0.016	0	0.041	0.045	
7			4	3.94	0.016	0.005	0.041	0.044	
8			5	4.04	0.016	0	0.041	0.045	
9			Avg:	4.035	0.017	0.003	0.041	0.047	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.035	0.017	0.003	0.041	0.047	0.00 ms

	A	B	C	D	E	F	G	H	I
1	D6629533								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.877	0.019	0.005	0.04	0.05	
5			2	3.765	0.019	0.005	0.041	0.049	
6			3	3.85	0.016	0.005	0.041	0.043	
7			4	4.007	0.017	0.005	0.04	0.047	
8			5	3.991	0.016	0.005	0.041	0.044	
9			Avg:	3.898	0.017	0.005	0.041	0.047	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			3.898	0.017	0.005	0.041	0.047	0.00 ms

	A	B	C	D	E	F	G	H	I
1	D6630873								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.039	0.018	0.006	0.033	0.057	
5			2	5.058	0.018	0	0.032	0.056	
6			3	5.029	0.017	0.005	0.032	0.055	
7			4	5.078	0.021	0.006	0.033	0.067	
8			5	4.923	0.018	0.005	0.033	0.055	
9			Avg:	5.025	0.018	0.004	0.033	0.058	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.025	0.018	0.004	0.033	0.058	0.00 ms

	A	B	C	D	E	F	G	H	I
1	D6630873								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.483	0.02	0	0.033	0.057	
5			2	4.71	0.019	0.005	0.032	0.056	
6			3	4.555	0.017	0.005	0.033	0.05	
7			4	4.713	0.018	0.006	0.033	0.051	
8			5	4.768	0.019	0.005	0.032	0.056	
9			Avg:	4.646	0.019	0.004	0.033	0.054	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.646	0.019	0.004	0.033	0.054	0.00 ms

	A	B	C	D	E	F	G	H	I
1	D6631039								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.523	0.016	0.006	0.038	0.047	
5			2	4.577	0.017	0.006	0.038	0.05	
6			3	4.823	0.019	0	0.038	0.059	
7			4	4.674	0.016	0.006	0.038	0.05	
8			5	4.598	0.02	0.006	0.038	0.057	
9			Avg:	4.639	0.018	0.005	0.038	0.053	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.639	0.018	0.005	0.038	0.053	0.00 ms

	A	B	C	D	E	F	G	H	I
1	D6631039								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.818	0.018	0	0.037	0.046	
5			2	3.901	0.017	0.006	0.039	0.042	
6			3	3.907	0.018	0.006	0.038	0.047	
7			4	3.935	0.017	0.006	0.038	0.042	
8			5	3.975	0.017	0	0.037	0.043	
9			Avg:	3.907	0.017	0.004	0.038	0.044	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			3.907	0.017	0.004	0.038	0.044	0.00 ms

	A	B	C	D	E	F	G	H	I
1	D6631154								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.072	0.029	0.007	0.02	0.114	
5			2	6.044	0.026	0.007	0.019	0.105	
6			3	6.001	0.028	0.006	0.02	0.111	
7			4	6.01	0.03	0.006	0.02	0.119	
8			5	6.096	0.026	0.007	0.02	0.104	
9			Avg:	6.045	0.028	0.007	0.02	0.111	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			6.045	0.028	0.007	0.02	0.111	0.00 ms

	A	B	C	D	E	F	G	H	I
1	D6631154								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.574	0.025	0.005	0.02	0.099	
5			2	5.796	0.027	0.005	0.019	0.108	
6			3	5.642	0.024	0.006	0.021	0.093	
7			4	5.817	0.025	0	0.021	0.097	
8			5	5.759	0.025	0	0.022	0.096	
9			Avg:	5.718	0.025	0.003	0.021	0.099	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.718	0.025	0.003	0.021	0.099	0.00 ms

	A	B	C	D	E	F	G	H	I
1	F6300481								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Buckmasters Camo		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.879	0.017	0	0.039	0.057	
5			2	4.723	0.02	0.005	0.038	0.063	
6			3	4.7	0.017	0.005	0.039	0.055	
7			4	4.696	0.018	0.006	0.038	0.058	
8			5	4.754	0.021	0.005	0.038	0.066	
9			Avg:	4.75	0.019	0.004	0.038	0.06	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.75	0.019	0.004	0.038	0.06	0.00 ms

	A	B	C	D	E	F	G	H	I
1	F6300481								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Buckmasters Camo		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.697	0.021	0	0.039	0.065	
5			2	4.702	0.019	0	0.039	0.059	
6			3	4.806	0.021	0.005	0.038	0.067	
7			4	4.811	0.017	0.005	0.039	0.056	
8			5	4.788	0.017	0.005	0.04	0.057	
9			Avg:	4.761	0.019	0.003	0.039	0.061	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.761	0.019	0.003	0.039	0.061	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6588913								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.668	0.016	0	0.04	0.048	
5			2	4.498	0.017	0	0.039	0.049	
6			3	4.507	0.019	0.004	0.04	0.055	
7			4	4.421	0.019	0.004	0.039	0.054	
8			5	4.346	0.016	0.005	0.039	0.046	
9			Avg:	4.488	0.017	0.003	0.039	0.05	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.488	0.017	0.003	0.039	0.05	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6588913								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.045	0.017	0.005	0.038	0.044	
5			2	4.146	0.018	0.005	0.038	0.046	
6			3	4.248	0.017	0.005	0.038	0.045	
7			4	4.428	0.018	0.005	0.039	0.05	
8			5	4.185	0.018	0.006	0.039	0.046	
9			Avg:	4.21	0.018	0.005	0.038	0.046	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.21	0.018	0.005	0.038	0.046	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6588956								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.469	0.018	0.005	0.032	0.076	
5			2	6.044	0.019	0.005	0.032	0.075	
6			3	6.572	0.019	0.005	0.032	0.078	
7			4	6.48	0.019	0.005	0.032	0.077	
8			5	6.533	0.018	0	0.032	0.078	
9			Avg:	6.42	0.019	0.004	0.032	0.077	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			6.42	0.019	0.004	0.032	0.077	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6588956								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.98	0.018	0.005	0.032	0.069	
5			2	5.92	0.02	0.005	0.031	0.078	
6			3	5.979	0.022	0.005	0.032	0.082	
7			4	5.886	0.021	0.005	0.031	0.08	
8			5	5.968	0.02	0.005	0.031	0.077	
9			Avg:	5.947	0.02	0.005	0.031	0.077	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.947	0.02	0.005	0.031	0.077	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G66618936								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.353	0.018	0.005	0.039	0.078	
5			2	5.992	0.022	0.005	0.039	0.088	
6			3	6.468	0.022	0.005	0.038	0.093	
7			4	6.576	0.018	0.005	0.039	0.077	
8			5	5.797	0.021	0.005	0.039	0.08	
9			Avg:	6.237	0.02	0.005	0.039	0.083	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			6.237	0.02	0.005	0.039	0.083	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G66618936								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.914	0.019	0	0.038	0.075	
5			2	5.623	0.019	0	0.038	0.074	
6			3	5.911	0.02	0.005	0.039	0.079	
7			4	6.034	0.018	0	0.039	0.073	
8			5	5.644	0.021	0.005	0.039	0.078	
9			Avg:	5.825	0.019	0.002	0.039	0.076	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.825	0.019	0.002	0.039	0.076	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6635543								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.32	0.017	0.006	0.03	0.047	
5			2	4.309	0.015	0	0.029	0.042	
6			3	4.213	0.017	0	0.029	0.045	
7			4	3.914	0.018	0.006	0.029	0.046	
8			5	4.047	0.015	0.006	0.03	0.039	
9			Avg:	4.161	0.016	0.004	0.029	0.044	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.161	0.016	0.004	0.029	0.044	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6635543								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.161	0.015	0.006	0.029	0.041	
5			2	3.999	0.016	0	0.029	0.04	
6			3	4.096	0.016	0.006	0.03	0.041	
7			4	4.308	0.015	0.005	0.03	0.042	
8			5	3.858	0.018	0.006	0.03	0.043	
9			Avg:	4.084	0.016	0.005	0.03	0.041	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.084	0.016	0.005	0.03	0.041	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6635553								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.396	0.021	0.004	0.035	0.073	
5			2	5.042	0.021	0.005	0.036	0.069	
6			3	5.35	0.018	0.004	0.034	0.064	
7			4	5.38	0.019	0	0.035	0.067	
8			5	5.048	0.017	0.004	0.035	0.057	
9			Avg:	5.243	0.019	0.003	0.035	0.066	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.243	0.019	0.003	0.035	0.066	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6635553								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.346	0.018	0.005	0.034	0.053	
5			2	4.436	0.02	0.005	0.034	0.06	
6			3	4.258	0.018	0.005	0.034	0.051	
7			4	4.311	0.021	0.005	0.035	0.059	
8			5	4.299	0.018	0.005	0.035	0.05	
9			Avg:	4.33	0.019	0.005	0.034	0.055	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.33	0.019	0.005	0.034	0.055	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6635711								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.909	0.019	0.005	0.032	0.059	
5			2	4.866	0.017	0.005	0.033	0.054	
6			3	4.572	0.019	0.005	0.032	0.056	
7			4	4.607	0.019	0.005	0.032	0.057	
8			5	4.694	0.02	0.005	0.032	0.061	
9			Avg:	4.73	0.019	0.005	0.032	0.057	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.73	0.019	0.005	0.032	0.057	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6635711								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.507	0.019	0.005	0.032	0.056	
5			2	4.361	0.017	0.005	0.033	0.049	
6			3	4.676	0.017	0.005	0.033	0.051	
7			4	4.572	0.017	0.005	0.033	0.05	
8			5	4.461	0.016	0.005	0.033	0.047	
9			Avg:	4.515	0.017	0.005	0.033	0.051	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.515	0.017	0.005	0.033	0.051	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6635930								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.645	0.018	0.005	0.036	0.055	
5			2	4.444	0.018	0	0.036	0.053	
6			3	4.691	0.018	0.005	0.036	0.057	
7			4	4.416	0.018	0.006	0.036	0.054	
8			5	4.518	0.018	0.006	0.036	0.053	
9			Avg:	4.543	0.018	0.004	0.036	0.054	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.543	0.018	0.004	0.036	0.054	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6635930								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.482	0.019	0.006	0.036	0.056	
5			2	4.331	0.019	0.006	0.036	0.055	
6			3	4.336	0.019	0.006	0.036	0.054	
7			4	4.342	0.021	0.006	0.036	0.061	
8			5	4.817	0.021	0.005	0.036	0.067	
9			Avg:	4.462	0.02	0.006	0.036	0.059	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.462	0.02	0.006	0.036	0.059	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6636100								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.752	0.019	0	0.037	0.058	
5			2	4.326	0.018	0.006	0.037	0.052	
6			3	4.451	0.018	0.006	0.036	0.052	
7			4	4.828	0.018	0.006	0.037	0.056	
8			5	4.877	0.018	0.006	0.037	0.057	
9			Avg:	4.647	0.018	0.005	0.037	0.055	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.647	0.018	0.005	0.037	0.055	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6636100								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.052	0.02	0.007	0.036	0.053	
5			2	4.105	0.019	0.007	0.036	0.05	
6			3	4.064	0.02	0.006	0.036	0.053	
7			4	4.046	0.018	0	0.037	0.046	
8			5	4.057	0.019	0.007	0.036	0.051	
9			Avg:	4.065	0.019	0.005	0.036	0.051	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.065	0.019	0.005	0.036	0.051	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6636386								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.198	0.018	0.005	0.039	0.052	
5			2	4.174	0.019	0.005	0.038	0.054	
6			3	4.12	0.018	0.005	0.038	0.051	
7			4	4.258	0.021	0.005	0.038	0.059	
8			5	3.936	0.019	0.005	0.037	0.05	
9			Avg:	4.137	0.019	0.005	0.038	0.053	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.137	0.019	0.005	0.038	0.053	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6636386								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.055	0.018	0.005	0.038	0.049	
5			2	3.907	0.018	0.005	0.038	0.049	
6			3	4.114	0.019	0.005	0.038	0.054	
7			4	4.133	0.019	0.005	0.039	0.052	
8			5	3.928	0.02	0.005	0.037	0.055	
9			Avg:	4.027	0.019	0.005	0.038	0.052	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.027	0.019	0.005	0.038	0.052	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6636427								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.573	0.016	0.004	0.036	0.049	
5			2	4.622	0.018	0.004	0.037	0.056	
6			3	4.538	0.016	0.004	0.036	0.049	
7			4	4.446	0.015	0	0.036	0.047	
8			5	4.499	0.017	0	0.036	0.053	
9			Avg:	4.536	0.016	0.002	0.036	0.051	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.536	0.016	0.002	0.036	0.051	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6636427								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.855	0.016	0.005	0.036	0.042	
5			2	4.153	0.015	0	0.036	0.043	
6			3	4.171	0.015	0.005	0.036	0.044	
7			4	4.145	0.018	0.005	0.036	0.049	
8			5	3.973	0.016	0.005	0.036	0.044	
9			Avg:	4.059	0.016	0.004	0.036	0.044	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.059	0.016	0.004	0.036	0.044	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6636450								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.858	0.019	0.005	0.033	0.06	
5			2	4.595	0.018	0.005	0.033	0.057	
6			3	4.903	0.021	0	0.033	0.067	
7			4	4.851	0.019	0.005	0.032	0.06	
8			5	4.877	0.018	0.005	0.033	0.058	
9			Avg:	4.817	0.019	0.004	0.033	0.06	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.817	0.019	0.004	0.033	0.06	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6636450								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.639	0.02	0	0.032	0.061	
5			2	4.249	0.021	0.005	0.033	0.06	
6			3	4.998	0.021	0.005	0.032	0.069	
7			4	4.698	0.019	0.005	0.033	0.058	
8			5	4.647	0.019	0.005	0.032	0.059	
9			Avg:	4.646	0.02	0.004	0.032	0.061	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.646	0.02	0.004	0.032	0.061	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6636576								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.009	0.022	0	0.031	0.084	
5			2	5.962	0.018	0	0.032	0.068	
6			3	5.763	0.018	0.005	0.032	0.066	
7			4	5.853	0.018	0.005	0.032	0.067	
8			5	5.806	0.018	0.005	0.032	0.066	
9			Avg:	5.879	0.019	0.003	0.032	0.07	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.879	0.019	0.003	0.032	0.07	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6636576								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.637	0.019	0.005	0.032	0.067	
5			2	6.023	0.019	0.005	0.032	0.072	
6			3	5.458	0.018	0.005	0.032	0.064	
7			4	5.788	0.023	0.005	0.032	0.083	
8			5	5.952	0.018	0.005	0.032	0.07	
9			Avg:	5.772	0.019	0.005	0.032	0.071	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.772	0.019	0.005	0.032	0.071	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6639723								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Buckmasters camo		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.891	0.017	0.005	0.035	0.054	
5			2	5.099	0.018	0.005	0.036	0.059	
6			3	4.874	0.018	0.005	0.036	0.057	
7			4	4.913	0.018	0.005	0.036	0.058	
8			5	5.032	0.018	0.005	0.036	0.06	
9			Avg:	4.962	0.018	0.005	0.036	0.058	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.962	0.018	0.005	0.036	0.058	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6639723								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Buckmasters camo		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.093	0.02	0.005	0.034	0.066	
5			2	5.026	0.017	0.005	0.036	0.057	
6			3	5.078	0.019	0.005	0.035	0.065	
7			4	5.105	0.019	0.005	0.035	0.064	
8			5	5.19	0.02	0	0.035	0.068	
9			Avg:	5.098	0.019	0.004	0.035	0.064	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.098	0.019	0.004	0.035	0.064	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6639742								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Buckmasters		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.072	0.011	0.005	0.041	0.03	
5			2	3.444	0.012	0	0.041	0.026	
6			3	3.592	0.013	0.006	0.041	0.03	
7			4	3.691	0.012	0.005	0.041	0.028	
8			5	3.434	0.013	0.006	0.041	0.027	
9			Avg:	3.647	0.012	0.004	0.041	0.028	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			3.647	0.012	0.004	0.041	0.028	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6639742								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Buckmasters		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.393	0.012	0.006	0.041	0.026	
5			2	3.396	0.012	0	0.041	0.027	
6			3	3.45	0.013	0.006	0.041	0.027	
7			4	3.43	0.013	0.006	0.041	0.029	
8			5	3.407	0.012	0.006	0.041	0.026	
9			Avg:	3.415	0.012	0.005	0.041	0.027	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			3.415	0.012	0.005	0.041	0.027	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6641189								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Buckamsters camo		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.903	0.018	0	0.032	0.066	
5			2	5.144	0.018	0.005	0.033	0.059	
6			3	5.331	0.021	0.005	0.032	0.073	
7			4	5.311	0.021	0.005	0.033	0.074	
8			5	5.377	0.018	0	0.033	0.062	
9			Avg:	5.413	0.019	0.003	0.033	0.067	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.413	0.019	0.003	0.033	0.067	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6641189								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Buckamsters camo		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.233	0.021	0.005	0.033	0.058	
5			2	4.218	0.018	0.005	0.033	0.052	
6			3	4.355	0.018	0	0.033	0.051	
7			4	4.228	0.021	0.005	0.032	0.058	
8			5	4.323	0.02	0.005	0.033	0.058	
9			Avg:	4.271	0.02	0.004	0.033	0.055	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.271	0.02	0.004	0.033	0.055	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6642664								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Buckmasters camo		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.512	0.018	0.005	0.038	0.062	
5			2	5.709	0.022	0.005	0.038	0.078	
6			3	5.655	0.021	0.005	0.038	0.074	
7			4	5.501	0.019	0.005	0.038	0.067	
8			5	5.529	0.02	0.005	0.038	0.071	
9			Avg:	5.581	0.02	0.005	0.038	0.07	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.581	0.02	0.005	0.038	0.07	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6642664								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Buckmasters camo		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.625	0.018	0.005	0.038	0.063	
5			2	5.551	0.021	0.005	0.038	0.071	
6			3	5.61	0.017	0.005	0.039	0.06	
7			4	5.63	0.017	0.005	0.038	0.06	
8			5	5.644	0.017	0.005	0.038	0.062	
9			Avg:	5.612	0.018	0.005	0.038	0.063	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.612	0.018	0.005	0.038	0.063	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6642690								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Buckmasters camo		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.045	0.018	0.006	0.032	0.058	
5			2	5.131	0.018	0.005	0.032	0.06	
6			3	5.185	0.017	0.006	0.031	0.058	
7			4	5.226	0.021	0	0.031	0.071	
8			5	5.25	0.021	0.005	0.031	0.071	
9			Avg:	5.167	0.019	0.004	0.031	0.064	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.167	0.019	0.004	0.031	0.064	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6642690								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Buckmasters camo		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.14	0.02	0.006	0.032	0.067	
5			2	5.036	0.018	0.006	0.031	0.061	
6			3	5.049	0.019	0.006	0.031	0.062	
7			4	5.122	0.018	0	0.032	0.059	
8			5	5.033	0.018	0	0.032	0.06	
9			Avg:	5.076	0.019	0.004	0.032	0.062	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.076	0.019	0.004	0.032	0.062	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6642714								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Buckmasters camo		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.445	0.016	0.005	0.034	0.057	
5			2	5.642	0.016	0	0.034	0.06	
6			3	5.68	0.016	0.004	0.034	0.061	
7			4	5.731	0.018	0.005	0.033	0.066	
8			5	5.061	0.017	0.005	0.034	0.055	
9			Avg:	5.512	0.017	0.004	0.034	0.06	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.512	0.017	0.004	0.034	0.06	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6642714								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Buckmasters camo		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.358	0.018	0.005	0.033	0.052	
5			2	4.536	0.017	0	0.034	0.051	
6			3	4.35	0.017	0.005	0.033	0.05	
7			4	4.448	0.018	0.005	0.033	0.053	
8			5	4.433	0.017	0.005	0.033	0.051	
9			Avg:	4.425	0.017	0.004	0.033	0.051	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.425	0.017	0.004	0.033	0.051	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6644531								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.005	0.018	0.005	0.034	0.057	
5			2	4.957	0.019	0.005	0.033	0.059	
6			3	5.039	0.018	0.005	0.033	0.056	
7			4	5.117	0.018	0	0.033	0.056	
8			5	4.984	0.017	0.005	0.034	0.053	
9			Avg:	5.02	0.018	0.004	0.033	0.056	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.02	0.018	0.004	0.033	0.056	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6644531								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.217	0.018	0.005	0.033	0.059	
5			2	5.233	0.019	0.006	0.033	0.06	
6			3	5.04	0.019	0.005	0.033	0.06	
7			4	5.134	0.017	0.005	0.034	0.055	
8			5	5.106	0.019	0.005	0.033	0.061	
9			Avg:	5.146	0.018	0.005	0.033	0.059	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.146	0.018	0.005	0.033	0.059	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6644626								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.445	0.021	0.005	0.031	0.074	
5			2	5.115	0.018	0.005	0.03	0.061	
6			3	4.782	0.021	0	0.031	0.066	
7			4	5.193	0.018	0.005	0.031	0.063	
8			5	5.019	0.023	0.005	0.03	0.074	
9			Avg:	5.111	0.02	0.004	0.031	0.068	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.111	0.02	0.004	0.031	0.068	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6644626								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.612	0.021	0	0.03	0.064	
5			2	4.59	0.022	0.005	0.03	0.068	
6			3	4.599	0.023	0	0.03	0.07	
7			4	4.618	0.022	0	0.031	0.066	
8			5	4.599	0.021	0.006	0.03	0.064	
9			Avg:	4.604	0.022	0.002	0.03	0.066	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.604	0.022	0.002	0.03	0.066	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6644642								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.035	0.02	0.005	0.033	0.066	
5			2	5.062	0.019	0.006	0.033	0.059	
6			3	4.964	0.019	0.006	0.033	0.059	
7			4	5.082	0.019	0.006	0.033	0.059	
8			5	5.096	0.019	0.005	0.033	0.06	
9			Avg:	5.048	0.019	0.006	0.033	0.061	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.048	0.019	0.006	0.033	0.061	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6644642								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.071	0.02	0.006	0.033	0.063	
5			2	5.164	0.022	0.006	0.033	0.071	
6			3	5.032	0.019	0.006	0.033	0.061	
7			4	5.348	0.019	0.005	0.033	0.062	
8			5	4.991	0.022	0.005	0.032	0.069	
9			Avg:	5.121	0.02	0.006	0.033	0.065	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.121	0.02	0.006	0.033	0.065	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6644667								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.236	0.017	0.004	0.029	0.056	
5			2	5.434	0.017	0	0.029	0.06	
6			3	5.115	0.017	0.005	0.03	0.056	
7			4	5.157	0.017	0	0.03	0.056	
8			5	5.098	0.016	0.005	0.03	0.053	
9			Avg:	5.208	0.017	0.003	0.03	0.056	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.208	0.017	0.003	0.03	0.056	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6644667								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.147	0.019	0	0.029	0.061	
5			2	5.269	0.018	0.005	0.029	0.059	
6			3	4.953	0.018	0.004	0.029	0.058	
7			4	5.093	0.018	0.005	0.03	0.059	
8			5	4.979	0.017	0.005	0.03	0.053	
9			Avg:	5.088	0.018	0.004	0.029	0.058	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.088	0.018	0.004	0.029	0.058	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6644706								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.237	0.018	0.005	0.037	0.05	
5			2	4.234	0.018	0.006	0.037	0.047	
6			3	4.444	0.017	0.005	0.037	0.047	
7			4	4.447	0.016	0	0.037	0.047	
8			5	4.419	0.015	0.005	0.037	0.042	
9			Avg:	4.356	0.017	0.004	0.037	0.047	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.356	0.017	0.004	0.037	0.047	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6644706								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.077	0.015	0	0.038	0.039	
5			2	3.962	0.016	0.005	0.037	0.041	
6			3	4.037	0.016	0.005	0.037	0.042	
7			4	3.892	0.015	0.006	0.038	0.039	
8			5	3.984	0.015	0.006	0.038	0.038	
9			Avg:	3.99	0.015	0.004	0.038	0.04	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			3.99	0.015	0.004	0.038	0.04	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6644775								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.127	0.02	0	0.036	0.067	
5			2	5.077	0.019	0.005	0.036	0.063	
6			3	5.044	0.018	0.005	0.037	0.057	
7			4	5.02	0.018	0.005	0.036	0.059	
8			5	5.069	0.019	0	0.036	0.061	
9			Avg:	5.067	0.019	0.003	0.036	0.061	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.067	0.019	0.003	0.036	0.061	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6644775								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.907	0.017	0.005	0.037	0.054	
5			2	5.028	0.017	0.005	0.037	0.057	
6			3	4.87	0.02	0.005	0.036	0.064	
7			4	4.984	0.017	0.005	0.037	0.055	
8			5	5.046	0.019	0.005	0.036	0.061	
9			Avg:	4.967	0.018	0.005	0.037	0.058	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.967	0.018	0.005	0.037	0.058	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6644808								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.155	0.018	0.005	0.032	0.06	
5			2	5.139	0.018	0.005	0.031	0.059	
6			3	5.107	0.019	0.006	0.032	0.062	
7			4	5.281	0.019	0.005	0.031	0.067	
8			5	5.138	0.02	0.006	0.031	0.066	
9			Avg:	5.164	0.019	0.005	0.031	0.063	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.164	0.019	0.005	0.031	0.063	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6644808								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.226	0.017	0	0.031	0.059	
5			2	5.11	0.018	0.005	0.032	0.059	
6			3	5.22	0.021	0	0.031	0.069	
7			4	5.178	0.021	0.005	0.031	0.069	
8			5	5.22	0.018	0	0.032	0.059	
9			Avg:	5.191	0.019	0.002	0.031	0.063	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.191	0.019	0.002	0.031	0.063	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6644822								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.402	0.02	0.005	0.032	0.071	
5			2	5.392	0.022	0.005	0.032	0.079	
6			3	5.539	0.019	0	0.033	0.068	
7			4	5.502	0.018	0.005	0.033	0.066	
8			5	5.54	0.023	0.005	0.033	0.081	
9			Avg:	5.475	0.02	0.004	0.033	0.073	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.475	0.02	0.004	0.033	0.073	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6644822								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.845	0.021	0	0.033	0.067	
5			2	4.865	0.021	0	0.033	0.066	
6			3	4.958	0.018	0.005	0.034	0.061	
7			4	5.004	0.019	0.005	0.033	0.063	
8			5	5.018	0.018	0.005	0.033	0.059	
9			Avg:	4.938	0.019	0.003	0.033	0.063	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.938	0.019	0.003	0.033	0.063	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6644895								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.406	0.019	0	0.03	0.065	
5			2	5.281	0.015	0.005	0.03	0.051	
6			3	5.317	0.016	0.005	0.031	0.053	
7			4	5.392	0.016	0.005	0.031	0.054	
8			5	5.331	0.015	0.005	0.031	0.052	
9			Avg:	5.345	0.016	0.004	0.031	0.055	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.345	0.016	0.004	0.031	0.055	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6644895								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS DM		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.025	0.016	0	0.029	0.051	
5			2	5.271	0.017	0.004	0.03	0.055	
6			3	5.089	0.015	0	0.03	0.05	
7			4	4.829	0.016	0	0.029	0.049	
8			5	5.279	0.018	0.005	0.03	0.06	
9			Avg:	5.099	0.016	0.002	0.03	0.053	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.099	0.016	0.002	0.03	0.053	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6646024								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.253	0.02	0.005	0.029	0.071	
5			2	5.434	0.017	0	0.029	0.062	
6			3	5.491	0.017	0.004	0.029	0.064	
7			4	5.503	0.021	0.004	0.029	0.076	
8			5	5.789	0.017	0.004	0.03	0.065	
9			Avg:	5.494	0.018	0.003	0.029	0.068	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.494	0.018	0.003	0.029	0.068	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6646024								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.833	0.021	0.005	0.028	0.069	
5			2	4.838	0.018	0	0.029	0.059	
6			3	4.826	0.021	0.005	0.03	0.066	
7			4	4.762	0.019	0.005	0.029	0.06	
8			5	4.786	0.019	0.005	0.029	0.061	
9			Avg:	4.809	0.02	0.004	0.029	0.063	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.809	0.02	0.004	0.029	0.063	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6647888								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.274	0.021	0.006	0.037	0.072	
5			2	5.241	0.018	0.005	0.038	0.062	
6			3	5.237	0.022	0.006	0.037	0.074	
7			4	5.27	0.019	0.005	0.037	0.064	
8			5	5.25	0.018	0	0.037	0.061	
9			Avg:	5.254	0.02	0.004	0.037	0.067	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.254	0.02	0.004	0.037	0.067	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6647888								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS Varmint		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.838	0.021	0	0.037	0.067	
5			2	4.788	0.019	0.006	0.038	0.057	
6			3	4.787	0.018	0.006	0.038	0.056	
7			4	4.802	0.021	0	0.038	0.066	
8			5	4.781	0.02	0.006	0.037	0.064	
9			Avg:	4.799	0.02	0.004	0.038	0.062	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.799	0.02	0.004	0.038	0.062	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6657024								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VSF		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.38	0.017	0	0.033	0.04	
5			2	3.591	0.02	0.006	0.033	0.049	
6			3	3.604	0.018	0.006	0.034	0.043	
7			4	3.636	0.018	0.006	0.033	0.044	
8			5	3.597	0.018	0.006	0.033	0.044	
9			Avg:	3.562	0.018	0.005	0.033	0.044	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			3.562	0.018	0.005	0.033	0.044	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6657024								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 VSF		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.407	0.018	0.006	0.033	0.043	
5			2	3.606	0.017	0.005	0.032	0.042	
6			3	3.608	0.016	0.006	0.032	0.04	
7			4	3.26	0.019	0	0.032	0.042	
8			5	3.455	0.019	0	0.033	0.045	
9			Avg:	3.467	0.018	0.003	0.032	0.042	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			3.467	0.018	0.003	0.032	0.042	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6663521								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL B&C		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.862	0.016	0.005	0.038	0.042	
5			2	3.981	0.017	0.005	0.037	0.045	
6			3	3.646	0.018	0.006	0.037	0.044	
7			4	3.792	0.018	0.005	0.038	0.047	
8			5	3.888	0.016	0.006	0.039	0.042	
9			Avg:	3.834	0.017	0.005	0.038	0.044	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			3.834	0.017	0.005	0.038	0.044	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6663521								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL B&C		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.689	0.017	0.006	0.038	0.041	
5			2	3.802	0.016	0.005	0.037	0.041	
6			3	4.119	0.016	0.005	0.037	0.044	
7			4	3.877	0.017	0.005	0.037	0.045	
8			5	3.843	0.016	0.005	0.037	0.041	
9			Avg:	3.866	0.016	0.005	0.037	0.042	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			3.866	0.016	0.005	0.037	0.042	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6663602								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL B&C		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.111	0.016	0.006	0.041	0.042	
5			2	4.55	0.016	0.006	0.041	0.047	
6			3	4.221	0.017	0.005	0.04	0.045	
7			4	4.155	0.016	0.006	0.04	0.043	
8			5	4.518	0.018	0.005	0.041	0.051	
9			Avg:	4.311	0.017	0.006	0.041	0.046	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.311	0.017	0.006	0.041	0.046	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6663602								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL B&C		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.263	0.017	0.006	0.04	0.045	
5			2	4.214	0.016	0.006	0.041	0.043	
6			3	3.807	0.016	0.007	0.041	0.039	
7			4	4.174	0.018	0.006	0.041	0.048	
8			5	4.102	0.016	0.006	0.041	0.041	
9			Avg:	4.112	0.017	0.006	0.041	0.043	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.112	0.017	0.006	0.041	0.043	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6664380								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL B&C		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.076	0.02	0.006	0.03	0.066	
5			2	5.391	0.021	0.006	0.03	0.072	
6			3	5.796	0.02	0.005	0.03	0.076	
7			4	6.05	0.024	0.006	0.03	0.088	
8			5	5.715	0.02	0.006	0.031	0.071	
9			Avg:	5.606	0.021	0.006	0.03	0.075	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.606	0.021	0.006	0.03	0.075	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6664380								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL B&C		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.131	0.022	0.005	0.029	0.073	
5			2	5.017	0.021	0.006	0.029	0.069	
6			3	5.159	0.019	0.006	0.029	0.065	
7			4	5.155	0.02	0.006	0.028	0.067	
8			5	5.17	0.02	0.006	0.029	0.068	
9			Avg:	5.126	0.02	0.006	0.029	0.068	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.126	0.02	0.006	0.029	0.068	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6664552								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL B&C		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.316	0.021	0.006	0.034	0.071	
5			2	6.388	0.019	0.006	0.033	0.077	
6			3	5.586	0.02	0.006	0.034	0.071	
7			4	6.272	0.019	0.006	0.033	0.077	
8			5	6.212	0.02	0.006	0.033	0.079	
9			Avg:	5.955	0.02	0.006	0.033	0.075	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.955	0.02	0.006	0.033	0.075	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6664552								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL B&C		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.294	0.02	0.006	0.034	0.069	
5			2	5.102	0.02	0.006	0.034	0.067	
6			3	5.275	0.021	0	0.034	0.073	
7			4	5.472	0.019	0.006	0.034	0.066	
8			5	5.672	0.019	0.006	0.034	0.069	
9			Avg:	5.363	0.02	0.005	0.034	0.069	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.363	0.02	0.005	0.034	0.069	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6670533								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL B&C		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.712	0.017	0.004	0.031	0.054	
5			2	4.005	0.017	0	0.032	0.047	
6			3	4.388	0.018	0.005	0.031	0.055	
7			4	4.307	0.02	0	0.031	0.06	
8			5	4.309	0.017	0.004	0.032	0.052	
9			Avg:	4.344	0.018	0.003	0.031	0.054	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.344	0.018	0.003	0.031	0.054	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6670533								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL B&C		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	3.782	0.018	0.005	0.032	0.047	
5			2	3.974	0.017	0.005	0.031	0.048	
6			3	3.958	0.017	0.005	0.031	0.047	
7			4	4.034	0.017	0.005	0.032	0.048	
8			5	4.142	0.017	0	0.032	0.05	
9			Avg:	3.978	0.017	0.004	0.032	0.048	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			3.978	0.017	0.004	0.032	0.048	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6676852								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 ADL Syn Scoped		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.505	0.018	0.005	0.033	0.06	
5			2	5.394	0.016	0.005	0.033	0.051	
6			3	5.266	0.016	0.005	0.033	0.051	
7			4	5.294	0.016	0.005	0.034	0.052	
8			5	5.084	0.016	0.005	0.033	0.051	
9			Avg:	5.309	0.016	0.005	0.033	0.053	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.309	0.016	0.005	0.033	0.053	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6676852								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 ADL Syn Scoped		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.712	0.016	0.005	0.032	0.055	
5			2	5.423	0.017	0.006	0.033	0.055	
6			3	5.089	0.016	0.005	0.033	0.05	
7			4	5.699	0.02	0.005	0.032	0.067	
8			5	5.302	0.017	0.005	0.033	0.055	
9			Avg:	5.445	0.017	0.005	0.033	0.056	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.445	0.017	0.005	0.033	0.056	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6679354								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 ADL Syn Scoped		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.18	0.017	0	0.033	0.058	
5			2	4.887	0.017	0	0.033	0.054	
6			3	4.966	0.017	0.004	0.032	0.056	
7			4	4.431	0.017	0.005	0.032	0.049	
8			5	5.06	0.018	0.005	0.032	0.059	
9			Avg:	4.905	0.017	0.003	0.032	0.055	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.905	0.017	0.003	0.032	0.055	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6679354								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 ADL Syn Scoped		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.625	0.017	0.005	0.033	0.052	
5			2	4.761	0.021	0.005	0.031	0.063	
6			3	4.972	0.02	0.005	0.031	0.062	
7			4	4.673	0.017	0.005	0.033	0.051	
8			5	4.683	0.02	0.005	0.032	0.059	
9			Avg:	4.743	0.019	0.005	0.032	0.057	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.743	0.019	0.005	0.032	0.057	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6679368								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 ADL Syn Scoped		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.495	0.018	0.005	0.029	0.064	
5			2	5.39	0.018	0.006	0.03	0.061	
6			3	5.366	0.018	0.006	0.031	0.059	
7			4	5.264	0.018	0	0.03	0.059	
8			5	5.392	0.02	0.006	0.03	0.068	
9			Avg:	5.381	0.018	0.005	0.03	0.062	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.381	0.018	0.005	0.03	0.062	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6679368								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 ADL Syn Scoped		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.162	0.016	0.005	0.031	0.052	
5			2	5.285	0.019	0.005	0.03	0.064	
6			3	5.126	0.015	0.005	0.03	0.05	
7			4	5.124	0.019	0.005	0.03	0.063	
8			5	5.176	0.016	0.006	0.031	0.054	
9			Avg:	5.175	0.017	0.005	0.03	0.057	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.175	0.017	0.005	0.03	0.057	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6681961								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 ADL Youth Scoped		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.344	0.019	0	0.037	0.07	
5			2	6.336	0.017	0.005	0.038	0.063	
6			3	6.305	0.017	0.005	0.038	0.063	
7			4	6.722	0.02	0.004	0.037	0.078	
8			5	6.573	0.016	0	0.038	0.063	
9			Avg:	6.456	0.018	0.003	0.038	0.067	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			6.456	0.018	0.003	0.038	0.067	0.00 ms

	A	B	C	D	E	F	G	H	I
1	G6681961								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 ADL Youth Scoped		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.336	0.017	0.006	0.04	0.046	
5			2	4.396	0.017	0.006	0.039	0.044	
6			3	4.379	0.016	0.006	0.039	0.044	
7			4	4.412	0.018	0.007	0.038	0.049	
8			5	4.319	0.018	0.007	0.039	0.048	
9			Avg:	4.368	0.017	0.006	0.039	0.046	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.368	0.017	0.006	0.039	0.046	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6598705								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL SF		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.018	0.017	0.007	0.038	0.059	
5			2	5.847	0.021	0.006	0.038	0.071	
6			3	5.674	0.02	0	0.038	0.065	
7			4	5.344	0.016	0.006	0.039	0.05	
8			5	5.481	0.017	0.006	0.038	0.053	
9			Avg:	5.673	0.018	0.005	0.038	0.06	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.673	0.018	0.005	0.038	0.06	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6598705								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 CDL SF		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	6.026	0.019	0.006	0.035	0.065	
5			2	5.981	0.018	0.006	0.036	0.062	
6			3	5.399	0.017	0.006	0.038	0.052	
7			4	5.659	0.019	0.006	0.038	0.061	
8			5	5.861	0.018	0.006	0.037	0.061	
9			Avg:	5.785	0.018	0.006	0.037	0.06	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.785	0.018	0.006	0.037	0.06	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599579								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 Mtn LSS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.885	0.024	0	0.041	0.075	
5			2	4.608	0.021	0.007	0.041	0.061	
6			3	4.739	0.021	0.007	0.041	0.062	
7			4	4.565	0.021	0.007	0.041	0.061	
8			5	4.736	0.023	0.007	0.04	0.067	
9			Avg:	4.707	0.022	0.006	0.041	0.065	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.707	0.022	0.006	0.041	0.065	0.00 ms

	A	B	C	D	E	F	G	H	I
1	S6599579								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 Mtn LSS		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.14	0.021	0.008	0.041	0.055	
5			2	4.318	0.024	0.008	0.04	0.065	
6			3	4.374	0.021	0.008	0.041	0.059	
7			4	4.436	0.021	0.007	0.041	0.059	
8			5	4.141	0.022	0.008	0.041	0.058	
9			Avg:	4.282	0.022	0.008	0.041	0.059	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.282	0.022	0.008	0.041	0.059	0.00 ms

	A	B	C	D	E	F	G	H	I
1	T6266701								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS SS DM Camo		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.265	0.017	0	0.032	0.052	
5			2	5.547	0.017	0.007	0.031	0.054	
6			3	5.465	0.016	0.007	0.031	0.053	
7			4	5.48	0.02	0.006	0.031	0.066	
8			5	5.465	0.016	0.007	0.031	0.053	
9			Avg:	5.444	0.017	0.005	0.031	0.056	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.444	0.017	0.005	0.031	0.056	0.00 ms

	A	B	C	D	E	F	G	H	I
1	T6266701								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS SS DM Camo		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.857	0.018	0	0.032	0.05	
5			2	4.838	0.019	0.007	0.031	0.056	
6			3	4.894	0.017	0.007	0.031	0.05	
7			4	4.829	0.017	0.007	0.031	0.049	
8			5	4.773	0.017	0.007	0.031	0.05	
9			Avg:	4.838	0.018	0.006	0.031	0.051	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.838	0.018	0.006	0.031	0.051	0.00 ms

	A	B	C	D	E	F	G	H	I
1	T6267293								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS SS DM Camo		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.282	0.019	0.005	0.031	0.066	
5			2	5.062	0.02	0.006	0.032	0.068	
6			3	4.98	0.021	0.005	0.031	0.07	
7			4	4.918	0.018	0.005	0.031	0.06	
8			5	4.931	0.017	0.005	0.033	0.057	
9			Avg:	5.035	0.019	0.005	0.032	0.064	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.035	0.019	0.005	0.032	0.064	0.00 ms

	A	B	C	D	E	F	G	H	I
1	T6267293								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 SPS SS DM Camo		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	4.633	0.019	0.006	0.031	0.057	
5			2	4.832	0.018	0.006	0.032	0.057	
6			3	4.915	0.018	0.006	0.032	0.057	
7			4	4.913	0.019	0.005	0.031	0.062	
8			5	4.88	0.017	0.006	0.032	0.056	
9			Avg:	4.835	0.018	0.006	0.032	0.058	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			4.835	0.018	0.006	0.032	0.058	0.00 ms

	A	B	C	D	E	F	G	H	I	J
1		9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007
2	**Gun #**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
3	**SKU**	27092	27097	27259	84050	84055	27049	27142	27047	27143
4	**Description**	700 ADL Youth Syn Scoped	700 ADL Synthetic Scoped	700 VSF	700 CDL B&C	700 CDL B&C	700 CDL	700 SPS SS DM Camo	700 CDL	700 SPS SS DM Camo
5	**S/N**	G6681961	G6676852	G6657024	G6664552	G6664380	G6636576	T6266701	G6636100	T6267293
6	**Chatillon Spring Scale SC**									
7	**Tester**	JD	JD	JD	JD	JD	JD	JD	JD	JD
8	**TP1**	4.50	4.25	3.00	4.75	4.25	4.50	4.00	3.75	4.25
9	**TP2**	4.50	4.00	3.25	4.75	4.75	5.00	3.75	3.50	4.25
10	**TP3**	4.25	4.00	3.00	4.75	4.50	4.75	3.75	3.50	4.50
11	**Avg**	**4.417**	**4.083**	**3.083**	**4.750**	**4.500**	**4.750**	**3.833**	**3.583**	**4.333**
12	**SD**	0.144	0.144	0.144	0.000	0.250	0.250	0.144	0.144	0.144
13										
14	**Chatillon Spring Scale NSC**									
15	**Tester**	JD	JD	JD	JD	JD	JD	JD	JD	JD
16	**TP1**	4.50	4.00	3.50	4.00	5.50	4.75	4.00	4.25	4.25
17	**TP2**	5.50	4.50	3.50	4.75	5.00	4.00	4.00	4.50	4.25
18	**TP3**	5.75	4.25	3.25	4.50	4.75	4.75	4.00	4.00	4.00
19	**Avg**	**5.250**	**4.250**	**3.417**	**4.417**	**5.083**	**4.500**	**4.000**	**4.250**	**4.167**
20	**SD**	0.661	0.250	0.144	0.382	0.382	0.433	0.000	0.250	0.144
21										
22	**Lyman Digital Scale SC**									
23	**Tester**	JD	JD	JD	JD	JD	JD	JD	JD	JD
24	**TP1**	5.438	5.250	3.875	6.125	5.500	6.188	4.688	4.250	5.250
25	**TP2**	5.563	5.750	3.688	5.563	5.500	5.500	4.625	4.500	5.000
26	**TP3**	5.500	5.625	3.750	5.500	5.250	5.500	4.938	4.438	5.188
27	**Avg**	**5.500**	**5.542**	**3.771**	**5.729**	**5.417**	**5.729**	**4.750**	**4.396**	**5.146**
28	**SD**	0.063	0.260	0.095	0.344	0.144	0.397	0.165	0.130	0.130
29										
30	**Lyman Digital Scale NSC**									
31	**Tester**	JD	JD	JD	JD	JD	JD	JD	JD	JD
32	**TP1**	5.625	4.438	2.125	3.688	4.813	4.938	4.313	3.938	4.875
33	**TP2**	7.313	5.938	4.125	6.000	6.000	5.750	4.875	5.125	4.938
34	**TP3**	6.875	5.563	3.813	5.688	5.375	5.625	5.000	5.063	5.063
35	**Avg**	**6.604**	**5.313**	**3.354**	**5.125**	**5.396**	**5.438**	**4.729**	**4.708**	**4.958**
36	**SD**	0.876	0.781	1.076	1.255	0.594	0.438	0.366	0.668	0.095
37										
38	**Dvorak Device SC**									
39	**Tester**	JR	SW	SW	SW	SW	SW	SW	SW	SW
40	**TP1**	4.336	5.712	3.407	5.294	5.131	5.637	4.857	4.052	4.633
41	**TP2**	4.396	5.423	3.606	5.102	5.017	6.023	4.838	4.105	4.832
42	**TP3**	4.379	5.089	3.608	5.275	5.159	5.458	4.894	4.064	4.915

	K	L	M	N	O	P	Q	R	S	T	U	V
1	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007
2	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**
3	84054	84270	27343	84174	84262	84012	84217	84217	84051	84051	27011	27011
4	700 CDL B&C	700 Mtn LSS	700 SPS DM	700 SPS Buckmasters Camo	700 Ti	700 CDL SF	700 SPS Varmint	700 SPS Varmint	700 CDL B&C	700 CDL B&C	700 CDL	700 CDL
5	G6670533	S6599579	D6631154	F6300481	TT009198	S6598705	G6646024	G6647888	G6663602	G6663521	G6635553	G6635543
6												
7	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
8	3.50	4.25	5.00	4.50	4.75	4.75	4.50	4.50	3.75	4.00	3.75	4.00
9	3.75	4.00	5.00	4.50	4.75	4.75	5.00	4.50	3.75	4.00	3.75	4.00
10	3.50	4.00	5.00	4.25	4.75	4.50	5.00	4.50	3.75	3.50	3.75	4.25
11	**3.583**	**4.083**	**5.000**	**4.417**	**4.750**	**4.667**	**4.833**	**4.500**	**3.750**	**3.833**	**3.750**	**4.083**
12	0.144	0.144	0.000	0.144	0.000	0.144	0.289	0.000	0.000	0.289	0.000	0.144
13												
14												
15	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
16	3.25	4.00	5.00	4.25	5.00	4.25	5.00	4.50	4.00	4.50	4.00	4.00
17	4.00	4.25	5.00	4.25	4.75	5.00	5.25	4.50	4.00	4.50	4.25	3.75
18	4.00	4.25	5.00	4.50	4.50	5.50	5.25	4.50	4.25	4.00	4.25	3.50
19	**3.750**	**4.167**	**5.000**	**4.333**	**4.750**	**4.917**	**5.167**	**4.500**	**4.083**	**4.333**	**4.167**	**3.750**
20	0.433	0.144	0.000	0.144	0.250	0.629	0.144	0.000	0.144	0.289	0.144	0.250
21												
22												
23	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
24	4.250	4.938	7.000	5.438	6.625	5.500	6.313	5.500	4.750	4.625	4.375	5.000
25	4.250	4.938	6.375	5.750	6.563	5.625	6.000	5.688	4.500	4.438	4.313	4.813
26	4.125	4.875	6.188	5.563	6.313	5.250	5.875	5.250	4.563	4.313	4.625	4.688
27	**4.208**	**4.917**	**6.521**	**5.583**	**6.500**	**5.458**	**6.063**	**5.479**	**4.604**	**4.458**	**4.438**	**4.833**
28	0.072	0.036	0.425	0.157	0.165	0.191	0.225	0.219	0.130	0.157	0.165	0.157
29												
30												
31	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
32	4.000	3.938	6.688	5.313	5.875	4.563	5.938	4.500	5.188	4.063	4.625	4.375
33	4.875	4.688	6.750	5.125	6.000	5.375	6.188	5.500	4.938	4.188	4.938	4.313
34	4.875	4.625	7.000	5.188	5.750	6.063	5.875	5.625	4.688	4.063	4.813	4.438
35	**4.583**	**4.417**	**6.813**	**5.208**	**5.875**	**5.333**	**6.000**	**5.208**	**4.938**	**4.104**	**4.792**	**4.375**
36	0.505	0.416	0.165	0.095	0.125	0.751	0.165	0.617	0.250	0.072	0.157	0.063
37												
38												
39	SW	SW	SW	SW	SW	SW	JR	SW	SW	SW	SW	SW
40	3.782	4.140	5.574	4.697	5.394	6.026	4.833	4.838	4.263	3.689	4.346	4.161
41	3.974	4.318	5.796	4.702	5.666	5.981	4.838	4.788	4.214	3.802	4.436	3.999
42	3.958	4.374	5.642	4.806	6.046	5.399	4.826	4.787	3.807	4.119	4.258	4.096

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
1	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/12/2007	9/12/2007	9/12/2007
2	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**
3	27339	27339	27339	27339	27339	27339	27339	27095	27095	27053	27053	27053
4	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 ADL Syn Scoped	700 ADL Syn Scoped	700 CDL	700 CDL	700 CDL
5	G6644808	G6644642	G6644626	G6644667	G6644531	D6631039	G6644822	G6679354	G6679368	G6618936	G6635711	G6588956
6												
7	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
8	4.50	4.00	4.25	5.00	4.50	4.00	4.50	4.25	4.50	5.25	4.00	5.00
9	4.50	5.25	4.25	5.00	4.50	4.00	4.50	4.25	4.25	5.00	4.25	5.00
10	4.25	5.25	4.25	4.75	4.50	4.00	4.75	4.25	4.25	5.25	4.50	5.25
11	**4.417**	**4.833**	**4.250**	**4.917**	**4.500**	**4.000**	**4.583**	**4.250**	**4.333**	**5.167**	**4.250**	**5.083**
12	0.144	0.722	0.000	0.144	0.000	0.000	0.144	0.000	0.144	0.144	0.250	0.144
13												
14												
15	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
16	4.25	5.50	4.00	4.50	4.00	3.75	4.00	4.75	4.75	5.50	4.25	4.75
17	4.25	5.00	4.50	5.00	4.00	3.50	4.25	5.00	4.25	5.75	4.00	5.25
18	4.50	4.75	4.75	4.75	4.25	3.75	4.50	4.50	4.50	5.25	3.75	5.00
19	**4.333**	**5.083**	**4.417**	**4.750**	**4.083**	**3.667**	**4.250**	**4.750**	**4.500**	**5.500**	**4.000**	**5.000**
20	0.144	0.382	0.382	0.250	0.144	0.144	0.250	0.250	0.250	0.250	0.250	0.250
21												
22												
23	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
24	5.500	5.938	4.875	5.250	5.500	4.875	4.625	5.375	5.250	7.063	5.125	6.125
25	5.125	5.875	4.875	5.688	5.188	5.000	4.875	5.125	5.063	6.625	4.750	6.125
26	5.250	5.750	4.875	5.125	5.563	4.875	4.688	4.813	5.500	6.813	5.250	6.000
27	**5.292**	**5.854**	**4.875**	**5.354**	**5.417**	**4.917**	**4.729**	**5.104**	**5.271**	**6.833**	**5.042**	**6.083**
28	0.191	0.095	0.000	0.295	0.201	0.072	0.130	0.282	0.219	0.219	0.260	0.072
29												
30												
31	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
32	5.188	5.875	4.938	4.750	3.063	5.188	4.438	5.438	4.813	6.000	5.688	6.125
33	5.188	5.125	4.813	5.563	5.438	4.688	5.188	5.438	5.063	7.625	5.313	6.375
34	5.313	5.375	4.938	5.188	5.000	4.563	5.000	5.250	5.000	7.125	4.813	6.875
35	**5.229**	**5.458**	**4.896**	**5.167**	**4.500**	**4.813**	**4.875**	**5.375**	**4.958**	**6.917**	**5.271**	**6.458**
36	0.072	0.382	0.072	0.407	1.264	0.331	0.390	0.108	0.130	0.832	0.439	0.382
37												
38												
39	SW	JR	SW	SW	SW	JR	SW	SW	SW	SW	SW	SW
40	5.226	5.071	4.612	5.147	5.217	3.818	4.845	4.625	5.162	5.914	4.507	5.980
41	5.110	5.164	4.590	5.269	5.233	3.901	4.865	4.761	5.285	5.623	4.361	5.920
42	5.220	5.032	4.599	4.953	5.040	3.907	4.958	4.972	5.126	5.911	4.676	5.979

	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS
1	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007
2	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**
3	27053	27053	27053	27053	27053	84171	84171	84171	84171	84171	84171
4	700 CDL	700 CDL	700 CDL	700 CDL	700 CDL	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo
5	G6635930	G6636427	G6636386	G6636450	G6588913	G6639742	G6639723	G6642690	G6642664	G6641189	G6642714
6											
7	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
8	4.25	3.50	3.50	4.50	4.00	3.25	4.25	4.50	5.25	3.50	4.00
9	4.00	3.50	3.75	4.25	3.75	3.00	4.50	4.50	5.00	3.75	4.00
10	4.00	3.50	3.50	4.25	3.50	3.00	4.50	4.75	4.75	3.75	4.00
11	**4.083**	**3.500**	**3.583**	**4.333**	**3.750**	**3.083**	**4.417**	**4.583**	**5.000**	**3.667**	**4.000**
12	0.144	0.000	0.144	0.144	0.250	0.144	0.144	0.144	0.250	0.144	0.000
13											
14											
15	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
16	4.25	3.50	3.50	4.75	3.50	3.50	4.25	4.50	4.75	4.00	4.00
17	3.75	3.75	3.50	4.25	4.50	3.25	5.00	4.75	5.00	4.50	4.50
18	4.25	3.50	3.50	4.25	4.50	3.00	4.75	4.75	5.00	4.50	4.75
19	**4.083**	**3.583**	**3.500**	**4.417**	**4.167**	**3.250**	**4.667**	**4.667**	**4.917**	**4.333**	**4.417**
20	0.289	0.144	0.000	0.289	0.577	0.250	0.382	0.144	0.144	0.289	0.382
21											
22											
23	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
24	5.063	4.875	4.375	5.438	4.563	4.875	5.438	6.125	6.063	4.688	5.313
25	4.813	4.688	4.625	5.125	4.313	4.750	5.438	5.875	6.250	4.750	4.813
26	4.875	4.313	4.313	4.688	4.313	4.875	5.563	5.813	6.250	4.688	5.125
27	**4.917**	**4.625**	**4.438**	**5.083**	**4.396**	**4.833**	**5.479**	**5.938**	**6.188**	**4.708**	**5.083**
28	0.130	0.286	0.165	0.377	0.144	0.072	0.072	0.165	0.108	0.036	0.253
29											
30											
31	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
32	5.063	2.625	5.438	4.938	4.188	5.313	5.688	5.563	6.313	4.938	4.875
33	4.938	4.438	4.813	5.313	4.188	4.250	5.688	5.750	6.375	5.625	5.313
34	4.938	4.875	4.688	5.375	4.000	4.000	5.688	5.325	6.250	6.125	5.375
35	**4.979**	**3.979**	**4.979**	**5.208**	**4.125**	**4.521**	**5.688**	**5.546**	**6.313**	**5.563**	**5.188**
36	0.072	1.193	0.402	0.237	0.108	0.697	0.000	0.213	0.063	0.596	0.272
37											
38											
39	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
40	4.482	3.855	4.055	4.639	4.045	3.393	5.093	5.140	5.625	4.233	4.358
41	4.331	4.153	3.907	4.249	4.146	3.396	5.026	5.036	5.551	4.218	4.536
42	4.336	4.171	4.114	4.998	4.248	3.450	5.078	5.049	5.610	4.355	4.350

	AT	AU	AV	AW	AX	AY
1	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007
2	**45**	**46**	**47**	**48**	**49**	**50**
3	27335	27335	27335	27335	27335	27335
4	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM
5	D6629503	D6629533	G6644775	D6630873	G6644706	G6644895
6						
7	JD	JD	JD	JD	JD	JD
8	4.00	3.25	4.00	4.00	3.00	4.25
9	4.00	3.00	4.25	4.25	3.00	4.00
10	4.25	3.00	4.25	4.50	3.00	3.75
11	**4.083**	**3.083**	**4.167**	**4.250**	**3.000**	**4.000**
12	0.144	0.144	0.144	0.250	0.000	0.250
13						
14						
15	JD	JD	JD	JD	JD	JD
16	4.25	3.50	3.75	4.25	3.50	4.00
17	4.00	3.25	4.00	4.25	3.00	4.00
18	4.50	3.25	4.25	4.25	3.00	4.25
19	**4.250**	**3.333**	**4.000**	**4.250**	**3.167**	**4.083**
20	0.250	0.144	0.250	0.000	0.289	0.144
21						
22						
23	JD	JD	JD	JD	JD	JD
24	4.625	3.813	5.563	5.438	3.938	5.250
25	5.188	3.938	5.563	5.063	4.063	5.188
26	5.063	3.875	5.250	5.563	3.688	5.063
27	**4.958**	**3.875**	**5.458**	**5.354**	**3.896**	**5.167**
28	0.295	0.063	0.180	0.260	0.191	0.095
29						
30						
31	JD	JD	JD	JD	JD	JD
32	4.625	4.000	4.813	5.563	4.250	4.813
33	5.188	3.813	5.313	5.313	3.875	5.313
34	4.875	3.875	5.125	5.313	4.313	5.375
35	**4.896**	**3.896**	**5.083**	**5.396**	**4.146**	**5.167**
36	0.282	0.095	0.253	0.144	0.237	0.308
37						
38						
39	SW	SW	SW	SW	SW	SW
40	4.850	4.850	4.907	4.483	4.077	5.025
41	4.823	4.823	5.028	4.710	3.962	5.271
42	4.821	4.821	4.870	4.555	4.037	5.089

	A	B	C	D	E	F	G	H	I	J
43	**TP4**	4.412	5.699	3.260	5.472	5.155	5.788	4.829	4.046	4.913
44	**TP5**	4.319	5.302	3.455	5.672	5.170	5.952	4.773	4.057	4.880
45	**Avg**	**4.368**	**5.445**	**3.467**	**5.363**	**5.126**	**5.772**	**4.838**	**4.065**	**4.835**
46	**SD**	0.040	0.266	0.146	0.217	0.063	0.230	0.044	0.023	0.118
47										
48	**Dvorak Device NSC**									
49	**Tester**	JR	SW	SW	SW	SW	SW	SW	SW	SW
50	**TP1**	6.344	5.505	3.380	5.316	5.076	6.009	5.265	4.752	5.282
51	**TP2**	6.336	5.394	3.591	6.388	5.391	5.962	5.547	4.326	5.062
52	**TP3**	6.305	5.266	3.604	5.586	5.796	5.763	5.465	4.451	4.980
53	**TP4**	6.722	5.294	3.636	6.272	6.050	5.853	5.480	4.828	4.918
54	**TP5**	6.573	5.084	3.597	6.212	5.715	5.806	5.465	4.877	4.931
55	**Avg**	**6.456**	**5.309**	**3.562**	**5.955**	**5.606**	**5.879**	**5.444**	**4.647**	**5.035**
56	**SD**	0.183	0.157	0.103	0.474	0.378	0.104	0.106	0.244	0.149

	K	L	M	N	O	P	Q	R	S	T	U	V
43	4.034	4.436	5.817	4.811	5.775	5.659	4.762	4.802	4.174	3.877	4.311	4.308
44	4.142	4.141	5.759	4.788	5.800	5.861	4.786	4.781	4.102	3.843	4.299	3.858
45	**3.978**	**4.282**	**5.718**	**4.761**	**5.736**	**5.785**	**4.809**	**4.799**	**4.112**	**3.866**	**4.330**	**4.084**
46	0.131	0.136	0.105	0.057	0.236	0.258	0.033	0.023	0.180	0.158	0.067	0.169
47												
48												
49	SW	SW	SW	SW	SW	SW	JR	SW	SW	SW	SW	SW
50	4.712	4.885	6.072	4.879	5.764	6.018	5.253	5.274	4.111	3.862	5.396	4.320
51	4.005	4.608	6.044	4.723	5.773	5.847	5.434	5.241	4.550	3.981	5.042	4.309
52	4.388	4.739	6.001	4.700	5.832	5.674	5.491	5.237	4.221	3.646	5.350	4.213
53	4.307	4.565	6.010	4.696	5.898	5.344	5.503	5.270	4.155	3.792	5.380	3.914
54	4.309	4.736	6.096	4.754	5.986	5.481	5.789	5.250	4.518	3.888	5.048	4.047
55	**4.344**	**4.707**	**6.045**	**4.750**	**5.851**	**5.673**	**5.494**	**5.254**	**4.311**	**3.834**	**5.243**	**4.161**
56	0.252	0.126	0.040	0.076	0.093	0.271	0.193	0.017	0.208	0.125	0.182	0.176

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
43	5.178	5.348	4.618	5.093	5.134	3.935	5.004	4.673	5.124	6.034	4.572	5.886
44	5.220	4.991	4.599	4.979	5.106	3.975	5.018	4.683	5.176	5.644	4.461	5.968
45	**5.191**	**5.121**	**4.604**	**5.088**	**5.146**	**3.907**	**4.938**	**4.743**	**5.175**	**5.825**	**4.515**	**5.947**
46	0.049	0.142	0.011	0.129	0.080	0.058	0.079	0.137	0.066	0.182	0.118	0.042
47												
48												
49	SW	JR	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
50	5.155	5.035	5.445	5.236	5.005	4.523	5.402	5.180	5.495	6.353	4.909	6.469
51	5.139	5.062	5.115	5.434	4.957	4.577	5.392	4.887	5.390	5.992	4.866	6.044
52	5.107	4.964	4.782	5.115	5.039	4.823	5.539	4.966	5.366	6.468	4.572	6.572
53	5.281	5.082	5.193	5.157	5.117	4.674	5.502	4.431	5.264	6.576	4.607	6.480
54	5.138	5.096	5.019	5.098	4.984	4.598	5.540	5.060	5.392	5.797	4.694	6.533
55	**5.164**	**5.048**	**5.111**	**5.208**	**5.020**	**4.639**	**5.475**	**4.905**	**5.381**	**6.237**	**4.730**	**6.420**
56	0.068	0.052	0.242	0.137	0.062	0.116	0.073	0.287	0.082	0.330	0.152	0.214

	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS
43	4.342	4.145	4.133	4.698	4.428	3.430	5.105	5.122	5.630	4.228	4.448
44	4.817	3.973	3.928	4.647	4.185	3.407	5.190	5.033	5.644	4.323	4.433
45	**4.462**	**4.059**	**4.027**	**4.646**	**4.210**	**3.415**	**5.098**	**5.076**	**5.612**	**4.271**	**4.425**
46	0.208	0.139	0.105	0.267	0.142	0.024	0.059	0.051	0.036	0.063	0.076
47											
48											
49	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
50	4.645	4.573	4.198	4.858	4.668	4.072	4.891	5.045	5.512	5.903	5.445
51	4.444	4.622	4.174	4.595	4.498	3.444	5.099	5.131	5.709	5.144	5.642
52	4.691	4.538	4.120	4.903	4.507	3.592	4.874	5.185	5.655	5.331	5.680
53	4.416	4.446	4.258	4.851	4.421	3.691	4.913	5.226	5.501	5.311	5.731
54	4.518	4.499	3.936	4.877	4.346	3.434	5.032	5.250	5.529	5.377	5.061
55	**4.543**	**4.536**	**4.137**	**4.817**	**4.488**	**3.647**	**4.962**	**5.167**	**5.581**	**5.413**	**5.512**
56	0.121	0.068	0.123	0.126	0.120	0.261	0.099	0.082	0.095	0.288	0.274

	AT	AU	AV	AW	AX	AY
43	4.866	4.866	4.984	4.713	3.892	4.829
44	4.926	4.926	5.046	4.768	3.984	5.279
45	**4.857**	**4.857**	**4.967**	**4.646**	**3.990**	**5.099**
46	0.043	0.043	0.076	0.121	0.071	0.187
47						
48						
49	SW	SW	SW	SW	SW	SW
50	5.258	5.258	5.127	5.039	4.237	5.406
51	5.258	5.258	5.077	5.058	4.234	5.281
52	5.334	5.334	5.044	5.029	4.444	5.317
53	5.089	5.089	5.020	5.078	4.447	5.392
54	5.141	5.141	5.069	4.923	4.419	5.331
55	**5.216**	**5.216**	**5.067**	**5.025**	**4.356**	**5.345**
56	0.099	0.099	0.040	0.060	0.111	0.052

Cell: A1
Comment: metrology1:
normal testing order was spring scale NSC - spring scale SC - Lyman NSC - Lyman SC - Dvorak SC - Dvorak NSC
SC = safety cycling
NSC = no safety cycling

Cell: M2
Comment: metrology1:
OLD TRIGGER

Cell: L15
Comment: metrology1:
measured second

Cell: M15
Comment: metrology1:
measured second

Cell: L31
Comment: metrology1:
measured first

Cell: M31
Comment: metrology1:
measured first

	A	B	C	D	E	F	G	H	I	J
1										
2	**Gun #**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
3	**SKU**	27092	27097	27259	84050	84055	27049	27142	27047	27143
4	**Description**	700 ADL Youth Syn Scoped	700 ADL Synthetic Scoped	700 VSF	700 CDL B&C	700 CDL B&C	700 CDL	700 SPS SS DM Camo	700 CDL	700 SPS SS DM Camo
5	**S/N**	G6681961	G6676852	G6657024	G6664552	G6664380	G6636576	T6266701	G6636100	T6267293
6		**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
7	Chatillon SC Avg	4.42	4.08	**3.08**	4.75	4.50	4.75	3.83	3.58	4.33
8	Chatillon NSC Avg	5.25	4.25	**3.42**	4.42	5.08	4.50	4.00	4.25	4.17
9	Lyman SC Avg	5.50	**5.54**	3.77	**5.73**	5.42	**5.73**	4.75	4.40	5.15
10	Lyman NSC Avg	**6.60**	5.31	**3.35**	5.13	5.40	5.44	4.73	4.71	4.96
11	Dvorak SC Avg	4.37	5.45	**3.47**	5.36	5.13	**5.77**	4.84	4.06	4.83
12	Dvorak NSC Avg	**6.46**	5.31	3.56	**5.95**	**5.61**	**5.88**	5.44	4.65	5.03
13										
14	Chatillon SC vs Dvorak SC	0.05	-1.36	-0.38	-0.61	-0.63	-1.02	-1.00	-0.48	-0.50
15	Chatillon NSC vs Dvorak SC	0.88	-1.20	-0.05	-0.95	-0.04	-1.27	-0.84	0.19	-0.67
16	Lyman SC vs Dvorak SC	1.13	0.10	0.30	0.37	0.29	-0.04	-0.09	0.33	0.31
17	Lyman NSC vs Dvorak SC	2.24	-0.13	-0.11	-0.24	0.27	-0.33	-0.11	0.64	0.12
18	Dvorak SC vs Dvorak SC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	Dvorak NSC vs Dvorak SC	2.09	-0.14	0.09	0.59	0.48	0.11	0.61	0.58	0.20

	K	L	M	N	O	P	Q	R	S	T	U	V
1												
2	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**
3	84054	84270	27343	84174	84262	84012	84217	84217	84051	84051	27011	27011
4	700 CDL B&C	700 Mtn LSS	700 SPS DM	700 SPS Buckmasters Camo	700 Ti	700 CDL SF	700 SPS Varmint	700 SPS Varmint	700 CDL B&C	700 CDL B&C	700 CDL	700 CDL
5	G6670533	S6599579	D6631154	F6300481	TT009198	S6598705	G6646024	G6647888	G6663602	G6663521	G6635553	G6635543
6	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**
7	3.58	4.08	5.00	4.42	4.75	4.67	4.83	4.50	3.75	3.83	3.75	4.08
8	3.75	4.17	5.00	4.33	4.75	4.92	5.17	4.50	4.08	4.33	4.17	3.75
9	4.21	4.92	**6.52**	**5.58**	**6.50**	5.46	**6.06**	5.48	4.60	4.46	4.44	4.83
10	4.58	4.42	**6.81**	5.21	**5.88**	5.33	**6.00**	5.21	4.94	4.10	4.79	4.38
11	3.98	4.28	**5.72**	4.76	**5.74**	**5.79**	4.81	4.80	4.11	3.87	4.33	4.08
12	4.34	4.71	**6.04**	4.75	**5.85**	**5.67**	5.49	5.25	4.31	3.83	5.24	4.16
13												
14	-0.39	-0.20	-0.72	-0.34	-0.99	-1.12	0.02	-0.30	-0.36	-0.03	-0.58	0.00
15	-0.23	-0.12	-0.72	-0.43	-0.99	-0.87	0.36	-0.30	-0.03	0.47	-0.16	-0.33
16	0.23	0.63	0.80	0.82	0.76	-0.33	1.25	0.68	0.49	0.59	0.11	0.75
17	0.61	0.13	1.09	0.45	0.14	-0.45	1.19	0.41	0.83	0.24	0.46	0.29
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.37	0.42	0.33	-0.01	0.11	-0.11	0.69	0.46	0.20	-0.03	0.91	0.08

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
1												
2	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**
3	27339	27339	27339	27339	27339	27339	27339	27095	27095	27053	27053	27053
4	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 ADL Syn Scoped	700 ADL Syn Scoped	700 CDL	700 CDL	700 CDL
5	G6644808	G6644642	G6644626	G6644667	G6644531	D6631039	G6644822	G6679354	G6679368	G6618936	G6635711	G6588956
6	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**
7	4.42	4.83	4.25	4.92	4.50	4.00	4.58	4.25	4.33	5.17	4.25	5.08
8	4.33	5.08	4.42	4.75	4.08	3.67	4.25	4.75	4.50	5.50	4.00	5.00
9	5.29	**5.85**	4.88	5.35	5.42	4.92	4.73	5.10	5.27	**6.83**	5.04	**6.08**
10	5.23	5.46	4.90	5.17	4.50	4.81	4.88	5.38	4.96	**6.92**	5.27	**6.46**
11	5.19	5.12	4.60	5.09	5.15	3.91	4.94	4.74	5.17	**5.83**	4.52	**5.95**
12	5.16	5.05	5.11	5.21	5.02	4.64	5.48	4.90	5.38	**6.24**	4.73	**6.42**
13												
14	-0.77	-0.29	-0.35	-0.17	-0.65	0.09	-0.35	-0.49	-0.84	-0.66	-0.27	-0.86
15	-0.86	-0.04	-0.19	-0.34	-1.06	-0.24	-0.69	0.01	-0.67	-0.33	-0.52	-0.95
16	0.10	0.73	0.27	0.27	0.27	1.01	-0.21	0.36	0.10	1.01	0.53	0.14
17	0.04	0.34	0.29	0.08	-0.65	0.91	-0.06	0.63	-0.22	1.09	0.76	0.51
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	-0.03	-0.07	0.51	0.12	-0.13	0.73	0.54	0.16	0.21	0.41	0.21	0.47

	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
1												
2	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
3	27053	27053	27053	27053	27053	84171	84171	84171	84171	84171	84171	27335
4	700 CDL	700 CDL	700 CDL	700 CDL	700 CDL	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS DM
5	G6635930	G6636427	G6636386	G6636450	G6588913	G6639742	G6639723	G6642690	G6642664	G6641189	G6642714	D6629503
6	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
7	4.08	3.50	3.58	4.33	3.75	**3.08**	4.42	4.58	5.00	3.67	4.00	4.08
8	4.08	3.58	3.50	4.42	4.17	**3.25**	4.67	4.67	4.92	4.33	4.42	4.25
9	4.92	4.63	4.44	5.08	4.40	4.83	5.48	**5.94**	**6.19**	4.71	5.08	4.96
10	4.98	3.98	4.98	5.21	4.13	4.52	**5.69**	**5.55**	**6.31**	**5.56**	5.19	4.90
11	4.46	4.06	4.03	4.65	4.21	**3.42**	5.10	5.08	**5.61**	4.27	4.43	4.86
12	4.54	4.54	4.14	4.82	4.49	3.65	4.96	5.17	**5.58**	5.41	**5.51**	5.22
13												
14	-0.38	-0.56	-0.44	-0.31	-0.46	-0.33	-0.68	-0.49	-0.61	-0.60	-0.43	-0.77
15	-0.38	-0.48	-0.53	-0.23	-0.04	-0.17	-0.43	-0.41	-0.70	0.06	-0.01	-0.61
16	0.46	0.57	0.41	0.44	0.19	1.42	0.38	0.86	0.58	0.44	0.66	0.10
17	0.52	-0.08	0.95	0.56	-0.09	1.11	0.59	0.47	0.70	1.29	0.76	0.04
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.08	0.48	0.11	0.17	0.28	0.23	-0.14	0.09	-0.03	1.14	1.09	0.36

	AU	AV	AW	AX	AY	AZ
1						
2	**46**	**47**	**48**	**49**	**50**	
3	27335	27335	27335	27335	27335	
4	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	
5	D6629533	G6644775	D6630873	G6644706	G6644895	
6	**46**	**47**	**48**	**49**	**50**	
7	**3.08**	4.17	4.25	**3.00**	4.00	
8	**3.33**	4.00	4.25	**3.17**	4.08	
9	3.88	5.46	5.35	3.90	5.17	
10	3.90	5.08	5.40	4.15	5.17	
11	4.86	4.97	4.65	3.99	5.10	
12	5.22	5.07	5.03	4.36	5.35	
13						
14	-1.77	-0.80	-0.40	-0.99	-1.10	-0.55
15	-1.52	-0.97	-0.40	-0.82	-1.02	-0.44
16	-0.98	0.49	0.71	-0.09	0.07	0.42
17	-0.96	0.12	0.75	0.16	0.07	0.37
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.36	0.10	0.38	0.37	0.25	0.33

Cell: M2
Comment: metrology1:
OLD TRIGGER

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1															
2	**Lyman Digital Scale SC**														
3	**Tester**	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
4	**TP1**	5.438	5.250	3.875	6.125	5.500	6.188	4.688	4.250	5.250	4.250	4.938	7.000	5.438	6.625
5	**TP2**	5.563	5.750	3.688	5.563	5.500	5.500	4.625	4.500	5.000	4.250	4.938	6.375	5.750	6.563
6	**TP3**	5.500	5.625	3.750	5.500	5.250	5.500	4.938	4.438	5.188	4.125	4.875	6.188	5.563	6.313
7	**Avg**	**5.500**	**5.542**	**3.771**	**5.729**	**5.417**	**5.729**	**4.750**	**4.396**	**5.146**	**4.208**	**4.917**	**6.521**	**5.583**	**6.500**
8	**SD**	0.063	0.260	0.095	0.344	0.144	0.397	0.165	0.130	0.130	0.072	0.036	0.425	0.157	0.165
9															
10	**Lyman Digital Scale NSC**														
11	**Tester**	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
12	**TP1**	5.625	4.438	2.125	3.688	4.813	4.938	4.313	3.938	4.875	4.000	3.938	6.688	5.313	5.875
13	**TP2**	7.313	5.938	4.125	6.000	6.000	5.750	4.875	5.125	4.938	4.875	4.688	6.750	5.125	6.000
14	**TP3**	6.875	5.563	3.813	5.688	5.375	5.625	5.000	5.063	5.063	4.875	4.625	7.000	5.188	5.750
15	**Avg**	**6.604**	**5.313**	**3.354**	**5.125**	**5.396**	**5.438**	**4.729**	**4.708**	**4.958**	**4.583**	**4.417**	**6.813**	**5.208**	**5.875**
16	**SD**	0.876	0.781	1.076	1.255	0.594	0.438	0.366	0.668	0.095	0.505	0.416	0.165	0.095	0.125
17															
18															
19		7	4	14	2	8	3	11	4	4	4	15	0	7	10
20		9	12	11	9	8	8	10	8	0	4	15	6	12	9
21		8	10	12	8	4	8	15	7	3	2	14	3	9	5
22															
23															
24		10	7	2	11	13	15	5	15	14	0	15	11	5	14
25		5	15	2	0	0	12	14	2	15	14	11	12	2	0
26		14	9	13	11	6	10	0	1	1	14	10	0	3	12
27															
28	**Chatillon Spring Scale SC**														
29	**Tester**	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
30	**TP1**	4.50	4.25	3.00	4.75	4.25	4.50	4.00	3.75	4.25	3.50	4.25	5.00	4.50	4.75
31	**TP2**	4.50	4.00	3.25	4.75	4.75	5.00	3.75	3.50	4.25	3.75	4.00	5.00	4.50	4.75
32	**TP3**	4.25	4.00	3.00	4.75	4.50	4.75	3.75	3.50	4.50	3.50	4.00	5.00	4.25	4.75
33	**Avg**	**4.417**	**4.083**	**3.083**	**4.750**	**4.500**	**4.750**	**3.833**	**3.583**	**4.333**	**3.583**	**4.083**	**5.000**	**4.417**	**4.750**
34	**SD**	0.144	0.144	0.144	0.000	0.250	0.250	0.144	0.144	0.144	0.144	0.144	0.000	0.144	0.000
35															
36	**Chatillon Spring Scale NSC**														
37	**Tester**	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
38	**TP1**	4.50	4.00	3.50	4.00	5.50	4.75	4.00	4.25	4.25	3.25	4.00	5.00	4.25	5.00
39	**TP2**	5.50	4.50	3.50	4.75	5.00	4.00	4.00	4.50	4.25	4.00	4.25	5.00	4.25	4.75
40	**TP3**	5.75	4.25	3.25	4.50	4.75	4.75	4.00	4.00	4.00	4.00	4.25	5.00	4.50	4.50
41	**Avg**	**5.250**	**4.250**	**3.417**	**4.417**	**5.083**	**4.500**	**4.000**	**4.250**	**4.167**	**3.750**	**4.167**	**5.000**	**4.333**	**4.750**
42	**SD**	0.661	0.250	0.144	0.382	0.382	0.433	0.000	0.250	0.144	0.433	0.144	0.000	0.144	0.250
43															
44															

	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF
1																	
2																	
3	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
4	5.500	6.313	5.500	4.750	4.625	4.375	5.000	5.500	5.938	4.875	5.250	5.500	4.875	4.625	5.375	5.250	7.063
5	5.625	6.000	5.688	4.500	4.438	4.313	4.813	5.125	5.875	4.875	5.688	5.188	5.000	4.875	5.125	5.063	6.625
6	5.250	5.875	5.250	4.563	4.313	4.625	4.688	5.250	5.750	4.875	5.125	5.563	4.875	4.688	4.813	5.500	6.813
7	**5.458**	**6.063**	**5.479**	**4.604**	**4.458**	**4.438**	**4.833**	**5.292**	**5.854**	**4.875**	**5.354**	**5.417**	**4.917**	**4.729**	**5.104**	**5.271**	**6.833**
8	0.191	0.225	0.219	0.130	0.157	0.165	0.157	0.191	0.095	0.000	0.295	0.201	0.072	0.130	0.282	0.219	0.219
9																	
10																	
11	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
12	4.563	5.938	4.500	5.188	4.063	4.625	4.375	5.188	5.875	4.938	4.750	3.063	5.188	4.438	5.438	4.813	6.000
13	5.375	6.188	5.500	4.938	4.188	4.938	4.313	5.188	5.125	4.813	5.563	5.438	4.688	5.188	5.438	5.063	7.625
14	6.063	5.875	5.625	4.688	4.063	4.813	4.438	5.313	5.375	4.938	5.188	5.000	4.563	5.000	5.250	5.000	7.125
15	**5.333**	**6.000**	**5.208**	**4.938**	**4.104**	**4.792**	**4.375**	**5.229**	**5.458**	**4.896**	**5.167**	**4.500**	**4.813**	**4.875**	**5.375**	**4.958**	**6.917**
16	0.751	0.165	0.617	0.250	0.072	0.157	0.063	0.072	0.382	0.072	0.407	1.264	0.331	0.390	0.108	0.130	0.832
17																	
18																	
19	8	5	8	12	10	6	0	8	15	14	4	8	14	10	6	4	1
20	10	0	11	8	7	5	13	2	14	14	11	3	0	14	2	1	10
21	4	14	4	9	5	10	11	4	12	14	2	9	14	11	13	8	13
22																	
23																	
24	9	15	8	3	1	10	6	3	14	15	12	1	3	7	7	13	0
25	6	3	8	15	3	15	5	3	2	13	9	7	11	3	7	1	10
26	1	14	10	11	1	13	7	5	6	15	3	0	9	0	4	0	2
27																	
28																	
29	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
30	4.75	4.50	4.50	3.75	4.00	3.75	4.00	4.50	4.00	4.25	5.00	4.50	4.00	4.50	4.25	4.50	5.25
31	4.75	5.00	4.50	3.75	4.00	3.75	4.00	4.50	5.25	4.25	5.00	4.50	4.00	4.50	4.25	4.25	5.00
32	4.50	5.00	4.50	3.75	3.50	3.75	4.25	4.25	5.25	4.25	4.75	4.50	4.00	4.75	4.25	4.25	5.25
33	**4.667**	**4.833**	**4.500**	**3.750**	**3.833**	**3.750**	**4.083**	**4.417**	**4.833**	**4.250**	**4.917**	**4.500**	**4.000**	**4.583**	**4.250**	**4.333**	**5.167**
34	0.144	0.289	0.000	0.000	0.289	0.000	0.144	0.144	0.722	0.000	0.144	0.000	0.000	0.144	0.000	0.144	0.144
35																	
36																	
37	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
38	4.25	5.00	4.50	4.00	4.50	4.00	4.00	4.25	5.50	4.00	4.50	4.00	3.75	4.00	4.75	4.75	5.50
39	5.00	5.25	4.50	4.00	4.50	4.25	3.75	4.25	5.00	4.50	5.00	4.00	3.50	4.25	5.00	4.25	5.75
40	5.50	5.25	4.50	4.25	4.00	4.25	3.50	4.50	4.75	4.75	4.75	4.25	3.75	4.50	4.50	4.50	5.25
41	**4.917**	**5.167**	**4.500**	**4.083**	**4.333**	**4.167**	**3.750**	**4.333**	**5.083**	**4.417**	**4.750**	**4.083**	**3.667**	**4.250**	**4.750**	**4.500**	**5.500**
42	0.629	0.144	0.000	0.144	0.289	0.144	0.250	0.144	0.382	0.382	0.250	0.144	0.144	0.250	0.250	0.250	0.250
43																	
44																	

	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW
1																	
2																	
3	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
4	5.125	6.125	5.063	4.875	4.375	5.438	4.563	4.875	5.438	6.125	6.063	4.688	5.313	4.625	3.813	5.563	5.438
5	4.750	6.125	4.813	4.688	4.625	5.125	4.313	4.750	5.438	5.875	6.250	4.750	4.813	5.188	3.938	5.563	5.063
6	5.250	6.000	4.875	4.313	4.313	4.688	4.313	4.875	5.563	5.813	6.250	4.688	5.125	5.063	3.875	5.250	5.563
7	**5.042**	**6.083**	**4.917**	**4.625**	**4.438**	**5.083**	**4.396**	**4.833**	**5.479**	**5.938**	**6.188**	**4.708**	**5.083**	**4.958**	**3.875**	**5.458**	**5.354**
8	0.260	0.072	0.130	0.286	0.165	0.377	0.144	0.072	0.072	0.165	0.108	0.036	0.253	0.295	0.063	0.180	0.260
9																	
10																	
11	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
12	5.688	6.125	5.063	2.625	5.438	4.938	4.188	5.313	5.688	5.563	6.313	4.938	4.875	4.625	4.000	4.813	5.563
13	5.313	6.375	4.938	4.438	4.813	5.313	4.188	4.250	5.688	5.750	6.375	5.625	5.313	5.188	3.813	5.313	5.313
14	4.813	6.875	4.938	4.875	4.688	5.375	4.000	4.000	5.688	5.313	6.250	6.125	5.375	4.875	3.875	5.125	5.313
15	**5.271**	**6.458**	**4.979**	**3.979**	**4.979**	**5.208**	**4.125**	**4.521**	**5.688**	**5.542**	**6.313**	**5.563**	**5.188**	**4.896**	**3.896**	**5.083**	**5.396**
16	0.439	0.382	0.072	1.193	0.402	0.237	0.108	0.697	0.000	0.219	0.063	0.596	0.272	0.282	0.095	0.253	0.144
17																	
18																	
19	2	2	1	14	6	7	9	14	7	2	1	11	5	10	13	9	7
20	12	2	13	11	10	2	5	12	7	14	4	12	13	3	15	9	1
21	4	0	14	5	5	11	5	14	9	13	4	11	2	1	14	4	9
22																	
23																	
24	11	2	1	10	7	15	3	5	11	9	5	15	14	10	0	13	9
25	5	6	15	7	13	5	3	4	11	12	6	10	5	3	13	5	5
26	13	14	15	14	11	6	0	0	11	5	4	2	6	14	14	2	5
27																	
28																	
29	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
30	4.00	5.00	4.25	3.50	3.50	4.50	4.00	3.25	4.25	4.50	5.25	3.50	4.00	4.00	3.25	4.00	4.00
31	4.25	5.00	4.00	3.50	3.75	4.25	3.75	3.00	4.50	4.50	5.00	3.75	4.00	4.00	3.00	4.25	4.25
32	4.50	5.25	4.00	3.50	3.50	4.25	3.50	3.00	4.50	4.75	4.75	3.75	4.00	4.25	3.00	4.25	4.50
33	**4.250**	**5.083**	**4.083**	**3.500**	**3.583**	**4.333**	**3.750**	**3.083**	**4.417**	**4.583**	**5.000**	**3.667**	**4.000**	**4.083**	**3.083**	**4.167**	**4.250**
34	0.250	0.144	0.144	0.000	0.144	0.144	0.250	0.144	0.144	0.144	0.250	0.144	0.000	0.144	0.144	0.144	0.250
35																	
36																	
37	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
38	4.25	4.75	4.25	3.50	3.50	4.75	3.50	3.50	4.25	4.50	4.75	4.00	4.00	4.25	3.50	3.75	4.25
39	4.00	5.25	3.75	3.75	3.50	4.25	4.50	3.25	5.00	4.75	5.00	4.50	4.50	4.00	3.25	4.00	4.25
40	3.75	5.00	4.25	3.50	3.50	4.25	4.50	3.00	4.75	4.75	5.00	4.50	4.75	4.50	3.25	4.25	4.25
41	**4.000**	**5.000**	**4.083**	**3.583**	**3.500**	**4.417**	**4.167**	**3.250**	**4.667**	**4.667**	**4.917**	**4.333**	**4.417**	**4.250**	**3.333**	**4.000**	**4.250**
42	0.250	0.250	0.289	0.144	0.000	0.289	0.577	0.250	0.382	0.144	0.144	0.289	0.382	0.250	0.144	0.250	0.000
43																	
44																	

	AX	AY
1		
2		
3	JD	JD
4	3.938	5.250
5	4.063	5.188
6	3.688	5.063
7	**3.896**	**5.167**
8	0.191	0.095
9		
10		
11	JD	JD
12	4.250	4.813
13	3.875	5.313
14	4.313	5.375
15	**4.146**	**5.167**
16	0.237	0.308
17		
18		
19	15	4
20	1	3
21	11	1
22		
23		
24	4	13
25	14	5
26	5	6
27		
28		
29	JD	JD
30	3.00	4.25
31	3.00	4.00
32	3.00	3.75
33	**3.000**	**4.000**
34	0.000	0.250
35		
36		
37	JD	JD
38	3.50	4.00
39	3.00	4.00
40	3.00	4.25
41	**3.167**	**4.083**
42	0.289	0.144
43		
44		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
45		2	1	0	3	1	2	0	3	1	2	1	0	2	3
46		2	0	1	3	3	0	3	2	1	3	0	0	2	3
47		1	0	0	3	2	3	3	2	2	2	0	0	1	3
48															
49															
50		2	0	2	0	2	3	0	1	1	1	0	0	1	0
51		2	2	2	3	0	0	0	2	1	0	1	0	1	3
52		3	1	1	2	3	3	0	0	0	0	1	0	2	2

	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF
45	3	2	2	3	0	3	0	2	0	1	0	2	0	2	1	2	1
46	3	0	2	3	0	3	0	2	1	1	0	2	0	2	1	1	0
47	2	0	2	3	2	3	1	1	1	1	3	2	0	3	1	1	1
48																	
49																	
50	1	0	2	0	2	0	0	1	2	0	2	0	3	0	3	3	2
51	0	1	2	0	2	1	3	1	0	2	0	0	2	1	0	1	3
52	2	1	2	1	0	1	2	2	3	3	3	1	3	2	2	2	1

	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW
45	0	0	1	2	2	2	0	1	1	2	1	2	0	0	1	0	0
46	1	0	0	2	3	1	3	0	2	2	0	3	0	0	0	1	1
47	2	1	0	2	2	1	2	0	2	3	3	3	0	1	0	1	2
48																	
49																	
50	1	3	1	2	2	3	2	2	1	2	3	0	0	1	2	3	1
51	0	1	3	3	2	1	2	1	0	3	0	2	2	0	1	0	1
52	3	0	1	2	2	1	2	0	3	3	0	2	3	2	1	1	1

	AX	AY
45	0	1
46	0	0
47	0	3
48		
49		
50	2	0
51	0	0
52	0	1

Cell: L11
Comment: metrology1:
measured first

Cell: M11
Comment: metrology1:
measured first

Cell: L37
Comment: metrology1:
measured second

Cell: M37
Comment: metrology1:
measured second

	A	B	C	D	E	F	G	H	I	J
1		9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007
2	**Gun #**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
3	**SKU**	27092	27097	27259	84050	84055	27049	27142	27047	27143
4	**Description**	700 ADL Youth Syn Scoped	700 ADL Synthetic Scoped	700 VSF	700 CDL B&C	700 CDL B&C	700 CDL	700 SPS SS DM Camo	700 CDL	700 SPS SS DM Camo
5	**S/N**	G6681961	G6676852	G6657024	G6664552	G6664380	G6636576	T6266701	G6636100	T6267293
6	**Chatillon Spring Scale SC**									
7	**Tester**	JD	JD	JD	JD	JD	JD	JD	JD	JD
8	**TP1**	4.50	4.25	3.00	4.75	4.25	4.50	4.00	3.75	4.25
9	**TP2**	4.50	4.00	3.25	4.75	4.75	5.00	3.75	3.50	4.25
10	**TP3**	4.25	4.00	3.00	4.75	4.50	4.75	3.75	3.50	4.50
11	**Avg**	**4.417**	**4.083**	**3.083**	**4.750**	**4.500**	**4.750**	**3.833**	**3.583**	**4.333**
12	**SD**	0.144	0.144	0.144	0.000	0.250	0.250	0.144	0.144	0.144
13										
14	**Chatillon Spring Scale NSC**									
15	**Tester**	JD	JD	JD	JD	JD	JD	JD	JD	JD
16	**TP1**	4.50	4.00	3.50	4.00	5.50	4.75	4.00	4.25	4.25
17	**TP2**	5.50	4.50	3.50	4.75	5.00	4.00	4.00	4.50	4.25
18	**TP3**	5.75	4.25	3.25	4.50	4.75	4.75	4.00	4.00	4.00
19	**Avg**	**5.250**	**4.250**	**3.417**	**4.417**	**5.083**	**4.500**	**4.000**	**4.250**	**4.167**
20	**SD**	0.661	0.250	0.144	0.382	0.382	0.433	0.000	0.250	0.144
21										
22	**Lyman Digital Scale SC**									
23	**Tester**	JD	JD	JD	JD	JD	JD	JD	JD	JD
24	**TP1**	5.438	5.250	3.875	6.125	5.500	6.188	4.688	4.250	5.250
25	**TP2**	5.563	5.750	3.688	5.563	5.500	5.500	4.625	4.500	5.000
26	**TP3**	5.500	5.625	3.750	5.500	5.250	5.500	4.938	4.438	5.188
27	**Avg**	**5.500**	**5.542**	**3.771**	**5.729**	**5.417**	**5.729**	**4.750**	**4.396**	**5.146**
28	**SD**	0.063	0.260	0.095	0.344	0.144	0.397	0.165	0.130	0.130
29										
30	**Lyman Digital Scale NSC**									
31	**Tester**	JD	JD	JD	JD	JD	JD	JD	JD	JD
32	**TP1**	5.625	4.438	2.125	3.688	4.813	4.938	4.313	3.938	4.875
33	**TP2**	7.313	5.938	4.125	6.000	6.000	5.750	4.875	5.125	4.938
34	**TP3**	6.875	5.563	3.813	5.688	5.375	5.625	5.000	5.063	5.063
35	**Avg**	**6.604**	**5.313**	**3.354**	**5.125**	**5.396**	**5.438**	**4.729**	**4.708**	**4.958**
36	**SD**	0.876	0.781	1.076	1.255	0.594	0.438	0.366	0.668	0.095
37										
38	**Dvorak Device SC**									
39	**Tester**	JR	SW	SW	SW	SW	SW	SW	SW	SW
40	**TP1**	4.336	5.712	3.407	5.294	5.131	5.637	4.857	4.052	4.633
41	**TP2**	4.396	5.423	3.606	5.102	5.017	6.023	4.838	4.105	4.832
42	**TP3**	4.379	5.089	3.608	5.275	5.159	5.458	4.894	4.064	4.915

	K	L	M	N	O	P	Q	R	S	T	U	V
1	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007
2	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**
3	84054	84270	27343	84174	84262	84012	84217	84217	84051	84051	27011	27011
4	700 CDL B&C	700 Mtn LSS	700 SPS DM	700 SPS Buckmasters Camo	700 Ti	700 CDL SF	700 SPS Varmint	700 SPS Varmint	700 CDL B&C	700 CDL B&C	700 CDL	700 CDL
5	G6670533	S6599579	D6631154	F6300481	TT009198	S6598705	G6646024	G6647888	G6663602	G6663521	G6635553	G6635543
6												
7	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
8	3.50	4.25	5.00	4.50	4.75	4.75	4.50	4.50	3.75	4.00	3.75	4.00
9	3.75	4.00	5.00	4.50	4.75	4.75	5.00	4.50	3.75	4.00	3.75	4.00
10	3.50	4.00	5.00	4.25	4.75	4.50	5.00	4.50	3.75	3.50	3.75	4.25
11	**3.583**	**4.083**	**5.000**	**4.417**	**4.750**	**4.667**	**4.833**	**4.500**	**3.750**	**3.833**	**3.750**	**4.083**
12	0.144	0.144	0.000	0.144	0.000	0.144	0.289	0.000	0.000	0.289	0.000	0.144
13												
14												
15	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
16	3.25	4.00	5.00	4.25	5.00	4.25	5.00	4.50	4.00	4.50	4.00	4.00
17	4.00	4.25	5.00	4.25	4.75	5.00	5.25	4.50	4.00	4.50	4.25	3.75
18	4.00	4.25	5.00	4.50	4.50	5.50	5.25	4.50	4.25	4.00	4.25	3.50
19	**3.750**	**4.167**	**5.000**	**4.333**	**4.750**	**4.917**	**5.167**	**4.500**	**4.083**	**4.333**	**4.167**	**3.750**
20	0.433	0.144	0.000	0.144	0.250	0.629	0.144	0.000	0.144	0.289	0.144	0.250
21												
22												
23	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
24	4.250	4.938	7.000	5.438	6.625	5.500	6.313	5.500	4.750	4.625	4.375	5.000
25	4.250	4.938	6.375	5.750	6.563	5.625	6.000	5.688	4.500	4.438	4.313	4.813
26	4.125	4.875	6.188	5.563	6.313	5.250	5.875	5.250	4.563	4.313	4.625	4.688
27	**4.208**	**4.917**	**6.521**	**5.583**	**6.500**	**5.458**	**6.063**	**5.479**	**4.604**	**4.458**	**4.438**	**4.833**
28	0.072	0.036	0.425	0.157	0.165	0.191	0.225	0.219	0.130	0.157	0.165	0.157
29												
30												
31	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
32	4.000	3.938	6.688	5.313	5.875	4.563	5.938	4.500	5.188	4.063	4.625	4.375
33	4.875	4.688	6.750	5.125	6.000	5.375	6.188	5.500	4.938	4.188	4.938	4.313
34	4.875	4.625	7.000	5.188	5.750	6.063	5.875	5.625	4.688	4.063	4.813	4.438
35	**4.583**	**4.417**	**6.813**	**5.208**	**5.875**	**5.333**	**6.000**	**5.208**	**4.938**	**4.104**	**4.792**	**4.375**
36	0.505	0.416	0.165	0.095	0.125	0.751	0.165	0.617	0.250	0.072	0.157	0.063
37												
38												
39	SW	SW	SW	SW	SW	SW	JR	SW	SW	SW	SW	SW
40	3.782	4.140	5.574	4.697	5.394	6.026	4.833	4.838	4.263	3.689	4.346	4.161
41	3.974	4.318	5.796	4.702	5.666	5.981	4.838	4.788	4.214	3.802	4.436	3.999
42	3.958	4.374	5.642	4.806	6.046	5.399	4.826	4.787	3.807	4.119	4.258	4.096

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
1	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/12/2007	9/12/2007	9/12/2007
2	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**
3	27339	27339	27339	27339	27339	27339	27339	27095	27095	27053	27053	27053
4	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 ADL Syn Scoped	700 ADL Syn Scoped	700 CDL	700 CDL	700 CDL
5	G6644808	G6644642	G6644626	G6644667	G6644531	D6631039	G6644822	G6679354	G6679368	G6618936	G6635711	G6588956
6												
7	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
8	4.50	4.00	4.25	5.00	4.50	4.00	4.50	4.25	4.50	5.25	4.00	5.00
9	4.50	5.25	4.25	5.00	4.50	4.00	4.50	4.25	4.25	5.00	4.25	5.00
10	4.25	5.25	4.25	4.75	4.50	4.00	4.75	4.25	4.25	5.25	4.50	5.25
11	**4.417**	**4.833**	**4.250**	**4.917**	**4.500**	**4.000**	**4.583**	**4.250**	**4.333**	**5.167**	**4.250**	**5.083**
12	0.144	0.722	0.000	0.144	0.000	0.000	0.144	0.000	0.144	0.144	0.250	0.144
13												
14												
15	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
16	4.25	5.50	4.00	4.50	4.00	3.75	4.00	4.75	4.75	5.50	4.25	4.75
17	4.25	5.00	4.50	5.00	4.00	3.50	4.25	5.00	4.25	5.75	4.00	5.25
18	4.50	4.75	4.75	4.75	4.25	3.75	4.50	4.50	4.50	5.25	3.75	5.00
19	**4.333**	**5.083**	**4.417**	**4.750**	**4.083**	**3.667**	**4.250**	**4.750**	**4.500**	**5.500**	**4.000**	**5.000**
20	0.144	0.382	0.382	0.250	0.144	0.144	0.250	0.250	0.250	0.250	0.250	0.250
21												
22												
23	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
24	5.500	5.938	4.875	5.250	5.500	4.875	4.625	5.375	5.250	7.063	5.125	6.125
25	5.125	5.875	4.875	5.688	5.188	5.000	4.875	5.125	5.063	6.625	4.750	6.125
26	5.250	5.750	4.875	5.125	5.563	4.875	4.688	4.813	5.500	6.813	5.250	6.000
27	**5.292**	**5.854**	**4.875**	**5.354**	**5.417**	**4.917**	**4.729**	**5.104**	**5.271**	**6.833**	**5.042**	**6.083**
28	0.191	0.095	0.000	0.295	0.201	0.072	0.130	0.282	0.219	0.219	0.260	0.072
29												
30												
31	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
32	5.188	5.875	4.938	4.750	3.063	5.188	4.438	5.438	4.813	6.000	5.688	6.125
33	5.188	5.125	4.813	5.563	5.438	4.688	5.188	5.438	5.063	7.625	5.313	6.375
34	5.313	5.375	4.938	5.188	5.000	4.563	5.000	5.250	5.000	7.125	4.813	6.875
35	**5.229**	**5.458**	**4.896**	**5.167**	**4.500**	**4.813**	**4.875**	**5.375**	**4.958**	**6.917**	**5.271**	**6.458**
36	0.072	0.382	0.072	0.407	1.264	0.331	0.390	0.108	0.130	0.832	0.439	0.382
37												
38												
39	SW	JR	SW	SW	SW	JR	SW	SW	SW	SW	SW	SW
40	5.226	5.071	4.612	5.147	5.217	3.818	4.845	4.625	5.162	5.914	4.507	5.980
41	5.110	5.164	4.590	5.269	5.233	3.901	4.865	4.761	5.285	5.623	4.361	5.920
42	5.220	5.032	4.599	4.953	5.040	3.907	4.958	4.972	5.126	5.911	4.676	5.979

	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS
1	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007
2	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**
3	27053	27053	27053	27053	27053	84171	84171	84171	84171	84171	84171
4	700 CDL	700 CDL	700 CDL	700 CDL	700 CDL	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo
5	G6635930	G6636427	G6636386	G6636450	G6588913	G6639742	G6639723	G6642690	G6642664	G6641189	G6642714
6											
7	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
8	4.25	3.50	3.50	4.50	4.00	3.25	4.25	4.50	5.25	3.50	4.00
9	4.00	3.50	3.75	4.25	3.75	3.00	4.50	4.50	5.00	3.75	4.00
10	4.00	3.50	3.50	4.25	3.50	3.00	4.50	4.75	4.75	3.75	4.00
11	**4.083**	**3.500**	**3.583**	**4.333**	**3.750**	**3.083**	**4.417**	**4.583**	**5.000**	**3.667**	**4.000**
12	0.144	0.000	0.144	0.144	0.250	0.144	0.144	0.144	0.250	0.144	0.000
13											
14											
15	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
16	4.25	3.50	3.50	4.75	3.50	3.50	4.25	4.50	4.75	4.00	4.00
17	3.75	3.75	3.50	4.25	4.50	3.25	5.00	4.75	5.00	4.50	4.50
18	4.25	3.50	3.50	4.25	4.50	3.00	4.75	4.75	5.00	4.50	4.75
19	**4.083**	**3.583**	**3.500**	**4.417**	**4.167**	**3.250**	**4.667**	**4.667**	**4.917**	**4.333**	**4.417**
20	0.289	0.144	0.000	0.289	0.577	0.250	0.382	0.144	0.144	0.289	0.382
21											
22											
23	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
24	5.063	4.875	4.375	5.438	4.563	4.875	5.438	6.125	6.063	4.688	5.313
25	4.813	4.688	4.625	5.125	4.313	4.750	5.438	5.875	6.250	4.750	4.813
26	4.875	4.313	4.313	4.688	4.313	4.875	5.563	5.813	6.250	4.688	5.125
27	**4.917**	**4.625**	**4.438**	**5.083**	**4.396**	**4.833**	**5.479**	**5.938**	**6.188**	**4.708**	**5.083**
28	0.130	0.286	0.165	0.377	0.144	0.072	0.072	0.165	0.108	0.036	0.253
29											
30											
31	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
32	5.063	2.625	5.438	4.938	4.188	5.313	5.688	5.563	6.313	4.938	4.875
33	4.938	4.438	4.813	5.313	4.188	4.250	5.688	5.750	6.375	5.625	5.313
34	4.938	4.875	4.688	5.375	4.000	4.000	5.688	5.313	6.250	6.125	5.375
35	**4.979**	**3.979**	**4.979**	**5.208**	**4.125**	**4.521**	**5.688**	**5.542**	**6.313**	**5.563**	**5.188**
36	0.072	1.193	0.402	0.237	0.108	0.697	0.000	0.219	0.063	0.596	0.272
37											
38											
39	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
40	4.482	3.855	4.055	4.639	4.045	3.393	5.093	5.140	5.625	4.233	4.358
41	4.331	4.153	3.907	4.249	4.146	3.396	5.026	5.036	5.551	4.218	4.536
42	4.336	4.171	4.114	4.998	4.248	3.450	5.078	5.049	5.610	4.355	4.350

	AT	AU	AV	AW	AX	AY
1	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007
2	**45**	**46**	**47**	**48**	**49**	**50**
3	27335	27335	27335	27335	27335	27335
4	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM
5	D6629503	D6629533	G6644775	D6630873	G6644706	G6644895
6						
7	JD	JD	JD	JD	JD	JD
8	4.00	3.25	4.00	4.00	3.00	4.25
9	4.00	3.00	4.25	4.25	3.00	4.00
10	4.25	3.00	4.25	4.50	3.00	3.75
11	**4.083**	**3.083**	**4.167**	**4.250**	**3.000**	**4.000**
12	0.144	0.144	0.144	0.250	0.000	0.250
13						
14						
15	JD	JD	JD	JD	JD	JD
16	4.25	3.50	3.75	4.25	3.50	4.00
17	4.00	3.25	4.00	4.25	3.00	4.00
18	4.50	3.25	4.25	4.25	3.00	4.25
19	**4.250**	**3.333**	**4.000**	**4.250**	**3.167**	**4.083**
20	0.250	0.144	0.250	0.000	0.289	0.144
21						
22						
23	JD	JD	JD	JD	JD	JD
24	4.625	3.813	5.563	5.438	3.938	5.250
25	5.188	3.938	5.563	5.063	4.063	5.188
26	5.063	3.875	5.250	5.563	3.688	5.063
27	**4.958**	**3.875**	**5.458**	**5.354**	**3.896**	**5.167**
28	0.295	0.063	0.180	0.260	0.191	0.095
29						
30						
31	JD	JD	JD	JD	JD	JD
32	4.625	4.000	4.813	5.563	4.250	4.813
33	5.188	3.813	5.313	5.313	3.875	5.313
34	4.875	3.875	5.125	5.313	4.313	5.375
35	**4.896**	**3.896**	**5.083**	**5.396**	**4.146**	**5.167**
36	0.282	0.095	0.253	0.144	0.237	0.308
37						
38						
39	SW	SW	SW	SW	SW	SW
40	4.850	4.850	4.907	4.483	4.077	5.025
41	4.823	4.823	5.028	4.710	3.962	5.271
42	4.821	4.821	4.870	4.555	4.037	5.089

	A	B	C	D	E	F	G	H	I	J
43	**TP4**	4.412	5.699	3.260	5.472	5.155	5.788	4.829	4.046	4.913
44	**TP5**	4.319	5.302	3.455	5.672	5.170	5.952	4.773	4.057	4.880
45	**Avg**	**4.368**	**5.445**	**3.467**	**5.363**	**5.126**	**5.772**	**4.838**	**4.065**	**4.835**
46	**SD**	0.040	0.266	0.146	0.217	0.063	0.230	0.044	0.023	0.118
47										
48	**Dvorak Device NSC**									
49	**Tester**	JR	SW	SW	SW	SW	SW	SW	SW	SW
50	**TP1**	6.344	5.505	3.380	5.316	5.076	6.009	5.265	4.752	5.282
51	**TP2**	6.336	5.394	3.591	6.388	5.391	5.962	5.547	4.326	5.062
52	**TP3**	6.305	5.266	3.604	5.586	5.796	5.763	5.465	4.451	4.980
53	**TP4**	6.722	5.294	3.636	6.272	6.050	5.853	5.480	4.828	4.918
54	**TP5**	6.573	5.084	3.597	6.212	5.715	5.806	5.465	4.877	4.931
55	**Avg**	**6.456**	**5.309**	**3.562**	**5.955**	**5.606**	**5.879**	**5.444**	**4.647**	**5.035**
56	**SD**	0.183	0.157	0.103	0.474	0.378	0.104	0.106	0.244	0.149

	K	L	M	N	O	P	Q	R	S	T	U	V
43	4.034	4.436	5.817	4.811	5.775	5.659	4.762	4.802	4.174	3.877	4.311	4.308
44	4.142	4.141	5.759	4.788	5.800	5.861	4.786	4.781	4.102	3.843	4.299	3.858
45	**3.978**	**4.282**	**5.718**	**4.761**	**5.736**	**5.785**	**4.809**	**4.799**	**4.112**	**3.866**	**4.330**	**4.084**
46	0.131	0.136	0.105	0.057	0.236	0.258	0.033	0.023	0.180	0.158	0.067	0.169
47												
48												
49	SW	SW	SW	SW	SW	SW	JR	SW	SW	SW	SW	SW
50	4.712	4.885	6.072	4.879	5.764	6.018	5.253	5.274	4.111	3.862	5.396	4.320
51	4.005	4.608	6.044	4.723	5.773	5.847	5.434	5.241	4.550	3.981	5.042	4.309
52	4.388	4.739	6.001	4.700	5.832	5.674	5.491	5.237	4.221	3.646	5.350	4.213
53	4.307	4.565	6.010	4.696	5.898	5.344	5.503	5.270	4.155	3.792	5.380	3.914
54	4.309	4.736	6.096	4.754	5.986	5.481	5.789	5.250	4.518	3.888	5.048	4.047
55	**4.344**	**4.707**	**6.045**	**4.750**	**5.851**	**5.673**	**5.494**	**5.254**	**4.311**	**3.834**	**5.243**	**4.161**
56	0.252	0.126	0.040	0.076	0.093	0.271	0.193	0.017	0.208	0.125	0.182	0.176

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
43	5.178	5.348	4.618	5.093	5.134	3.935	5.004	4.673	5.124	6.034	4.572	5.886
44	5.220	4.991	4.599	4.979	5.106	3.975	5.018	4.683	5.176	5.644	4.461	5.968
45	**5.191**	**5.121**	**4.604**	**5.088**	**5.146**	**3.907**	**4.938**	**4.743**	**5.175**	**5.825**	**4.515**	**5.947**
46	0.049	0.142	0.011	0.129	0.080	0.058	0.079	0.137	0.066	0.182	0.118	0.042
47												
48												
49	SW	JR	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
50	5.155	5.035	5.445	5.236	5.005	4.523	5.402	5.180	5.495	6.353	4.909	6.469
51	5.139	5.062	5.115	5.434	4.957	4.577	5.392	4.887	5.390	5.992	4.866	6.044
52	5.107	4.964	4.782	5.115	5.039	4.823	5.539	4.966	5.366	6.468	4.572	6.572
53	5.281	5.082	5.193	5.157	5.117	4.674	5.502	4.431	5.264	6.576	4.607	6.480
54	5.138	5.096	5.019	5.098	4.984	4.598	5.540	5.060	5.392	5.797	4.694	6.533
55	**5.164**	**5.048**	**5.111**	**5.208**	**5.020**	**4.639**	**5.475**	**4.905**	**5.381**	**6.237**	**4.730**	**6.420**
56	0.068	0.052	0.242	0.137	0.062	0.116	0.073	0.287	0.082	0.330	0.152	0.214

	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS
43	4.342	4.145	4.133	4.698	4.428	3.430	5.105	5.122	5.630	4.228	4.448
44	4.817	3.973	3.928	4.647	4.185	3.407	5.190	5.033	5.644	4.323	4.433
45	**4.462**	**4.059**	**4.027**	**4.646**	**4.210**	**3.415**	**5.098**	**5.076**	**5.612**	**4.271**	**4.425**
46	0.208	0.139	0.105	0.267	0.142	0.024	0.059	0.051	0.036	0.063	0.076
47											
48											
49	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
50	4.645	4.573	4.198	4.858	4.668	4.072	4.891	5.045	5.512	5.903	5.445
51	4.444	4.622	4.174	4.595	4.498	3.444	5.099	5.131	5.709	5.144	5.642
52	4.691	4.538	4.120	4.903	4.507	3.592	4.874	5.185	5.655	5.331	5.680
53	4.416	4.446	4.258	4.851	4.421	3.691	4.913	5.226	5.501	5.311	5.731
54	4.518	4.499	3.936	4.877	4.346	3.434	5.032	5.250	5.529	5.377	5.061
55	**4.543**	**4.536**	**4.137**	**4.817**	**4.488**	**3.647**	**4.962**	**5.167**	**5.581**	**5.413**	**5.512**
56	0.121	0.068	0.123	0.126	0.120	0.261	0.099	0.082	0.095	0.288	0.274

	AT	AU	AV	AW	AX	AY
43	4.866	4.866	4.984	4.713	3.892	4.829
44	4.926	4.926	5.046	4.768	3.984	5.279
45	**4.857**	**4.857**	**4.967**	**4.646**	**3.990**	**5.099**
46	0.043	0.043	0.076	0.121	0.071	0.187
47						
48						
49	SW	SW	SW	SW	SW	SW
50	5.258	5.258	5.127	5.039	4.237	5.406
51	5.258	5.258	5.077	5.058	4.234	5.281
52	5.334	5.334	5.044	5.029	4.444	5.317
53	5.089	5.089	5.020	5.078	4.447	5.392
54	5.141	5.141	5.069	4.923	4.419	5.331
55	**5.216**	**5.216**	**5.067**	**5.025**	**4.356**	**5.345**
56	0.099	0.099	0.040	0.060	0.111	0.052

Cell: A1
Comment: metrology1:
normal testing order was spring scale NSC - spring scale SC - Lyman NSC - Lyman SC - Dvorak SC - Dvorak NSC
SC = safety cycling
NSC = no safety cycling

Cell: M2
Comment: metrology1:
OLD TRIGGER

Cell: L15
Comment: metrology1:
measured second

Cell: M15
Comment: metrology1:
measured second

Cell: L31
Comment: metrology1:
measured first

Cell: M31
Comment: metrology1:
measured first

	A	B	C	D	E	F	G	H	I	J
1										
2	**Gun #**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
3	**SKU**	27092	27097	27259	84050	84055	27049	27142	27047	27143
4	**Description**	700 ADL Youth Syn Scoped	700 ADL Synthetic Scoped	700 VSF	700 CDL B&C	700 CDL B&C	700 CDL	700 SPS SS DM Camo	700 CDL	700 SPS SS DM Camo
5	**S/N**	G6681961	G6676852	G6657024	G6664552	G6664380	G6636576	T6266701	G6636100	T6267293
6		**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
7	Chatillon SC Avg	4.42	4.08	**3.08**	4.75	4.50	4.75	3.83	3.58	4.33
8	Chatillon NSC Avg	5.25	4.25	**3.42**	4.42	5.08	4.50	4.00	4.25	4.17
9	Lyman SC Avg	5.50	**5.54**	3.77	**5.73**	5.42	**5.73**	4.75	4.40	5.15
10	Lyman NSC Avg	**6.60**	5.31	**3.35**	5.13	5.40	5.44	4.73	4.71	4.96
11	Dvorak SC Avg	4.37	5.45	**3.47**	5.36	5.13	**5.77**	4.84	4.06	4.83
12	Dvorak NSC Avg	**6.46**	5.31	3.56	**5.95**	**5.61**	**5.88**	5.44	4.65	5.03
13										
14	Chatillon SC vs Dvorak SC	0.05	-1.36	-0.38	-0.61	-0.63	-1.02	-1.00	-0.48	-0.50
15	Chatillon NSC vs Dvorak SC	0.88	-1.20	-0.05	-0.95	-0.04	-1.27	-0.84	0.19	-0.67
16	Lyman SC vs Dvorak SC	1.13	0.10	0.30	0.37	0.29	-0.04	-0.09	0.33	0.31
17	Lyman NSC vs Dvorak SC	2.24	-0.13	-0.11	-0.24	0.27	-0.33	-0.11	0.64	0.12
18	Dvorak SC vs Dvorak SC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	Dvorak NSC vs Dvorak SC	2.09	-0.14	0.09	0.59	0.48	0.11	0.61	0.58	0.20

	K	L	M	N	O	P	Q	R	S	T	U	V
1												
2	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**
3	84054	84270	27343	84174	84262	84012	84217	84217	84051	84051	27011	27011
4	700 CDL B&C	700 Mtn LSS	700 SPS DM	700 SPS Buckmasters Camo	700 Ti	700 CDL SF	700 SPS Varmint	700 SPS Varmint	700 CDL B&C	700 CDL B&C	700 CDL	700 CDL
5	G6670533	S6599579	D6631154	F6300481	TT009198	S6598705	G6646024	G6647888	G6663602	G6663521	G6635553	G6635543
6	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**
7	3.58	4.08	5.00	4.42	4.75	4.67	4.83	4.50	3.75	3.83	3.75	4.08
8	3.75	4.17	5.00	4.33	4.75	4.92	5.17	4.50	4.08	4.33	4.17	3.75
9	4.21	4.92	**6.52**	**5.58**	**6.50**	5.46	**6.06**	5.48	4.60	4.46	4.44	4.83
10	4.58	4.42	**6.81**	5.21	**5.88**	5.33	**6.00**	5.21	4.94	4.10	4.79	4.38
11	3.98	4.28	**5.72**	4.76	**5.74**	**5.79**	4.81	4.80	4.11	3.87	4.33	4.08
12	4.34	4.71	**6.04**	4.75	**5.85**	**5.67**	5.49	5.25	4.31	3.83	5.24	4.16
13												
14	-0.39	-0.20	-0.72	-0.34	-0.99	-1.12	0.02	-0.30	-0.36	-0.03	-0.58	0.00
15	-0.23	-0.12	-0.72	-0.43	-0.99	-0.87	0.36	-0.30	-0.03	0.47	-0.16	-0.33
16	0.23	0.63	0.80	0.82	0.76	-0.33	1.25	0.68	0.49	0.59	0.11	0.75
17	0.61	0.13	1.09	0.45	0.14	-0.45	1.19	0.41	0.83	0.24	0.46	0.29
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.37	0.42	0.33	-0.01	0.11	-0.11	0.69	0.46	0.20	-0.03	0.91	0.08

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
1												
2	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**
3	27339	27339	27339	27339	27339	27339	27339	27095	27095	27053	27053	27053
4	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 ADL Syn Scoped	700 ADL Syn Scoped	700 CDL	700 CDL	700 CDL
5	G6644808	G6644642	G6644626	G6644667	G6644531	D6631039	G6644822	G6679354	G6679368	G6618936	G6635711	G6588956
6	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**
7	4.42	4.83	4.25	4.92	4.50	4.00	4.58	4.25	4.33	5.17	4.25	5.08
8	4.33	5.08	4.42	4.75	4.08	3.67	4.25	4.75	4.50	5.50	4.00	5.00
9	5.29	**5.85**	4.88	5.35	5.42	4.92	4.73	5.10	5.27	**6.83**	5.04	**6.08**
10	5.23	5.46	4.90	5.17	4.50	4.81	4.88	5.38	4.96	**6.92**	5.27	**6.46**
11	5.19	5.12	4.60	5.09	5.15	3.91	4.94	4.74	5.17	**5.83**	4.52	**5.95**
12	5.16	5.05	5.11	5.21	5.02	4.64	5.48	4.90	5.38	**6.24**	4.73	**6.42**
13												
14	-0.77	-0.29	-0.35	-0.17	-0.65	0.09	-0.35	-0.49	-0.84	-0.66	-0.27	-0.86
15	-0.86	-0.04	-0.19	-0.34	-1.06	-0.24	-0.69	0.01	-0.67	-0.33	-0.52	-0.95
16	0.10	0.73	0.27	0.27	0.27	1.01	-0.21	0.36	0.10	1.01	0.53	0.14
17	0.04	0.34	0.29	0.08	-0.65	0.91	-0.06	0.63	-0.22	1.09	0.76	0.51
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	-0.03	-0.07	0.51	0.12	-0.13	0.73	0.54	0.16	0.21	0.41	0.21	0.47

	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
1												
2	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
3	27053	27053	27053	27053	27053	84171	84171	84171	84171	84171	84171	27335
4	700 CDL	700 CDL	700 CDL	700 CDL	700 CDL	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS DM
5	G6635930	G6636427	G6636386	G6636450	G6588913	G6639742	G6639723	G6642690	G6642664	G6641189	G6642714	D6629503
6	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
7	4.08	3.50	3.58	4.33	3.75	**3.08**	4.42	4.58	5.00	3.67	4.00	4.08
8	4.08	3.58	3.50	4.42	4.17	**3.25**	4.67	4.67	4.92	4.33	4.42	4.25
9	4.92	4.63	4.44	5.08	4.40	4.83	5.48	**5.94**	**6.19**	4.71	5.08	4.96
10	4.98	3.98	4.98	5.21	4.13	4.52	**5.69**	**5.54**	**6.31**	**5.56**	5.19	4.90
11	4.46	4.06	4.03	4.65	4.21	**3.42**	5.10	5.08	**5.61**	4.27	4.43	4.86
12	4.54	4.54	4.14	4.82	4.49	3.65	4.96	5.17	**5.58**	5.41	**5.51**	5.22
13												
14	-0.38	-0.56	-0.44	-0.31	-0.46	-0.33	-0.68	-0.49	-0.61	-0.60	-0.43	-0.77
15	-0.38	-0.48	-0.53	-0.23	-0.04	-0.17	-0.43	-0.41	-0.70	0.06	-0.01	-0.61
16	0.46	0.57	0.41	0.44	0.19	1.42	0.38	0.86	0.58	0.44	0.66	0.10
17	0.52	-0.08	0.95	0.56	-0.09	1.11	0.59	0.47	0.70	1.29	0.76	0.04
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.08	0.48	0.11	0.17	0.28	0.23	-0.14	0.09	-0.03	1.14	1.09	0.36

	AU	AV	AW	AX	AY	AZ
1						
2	**46**	**47**	**48**	**49**	**50**	
3	27335	27335	27335	27335	27335	
4	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	
5	D6629533	G6644775	D6630873	G6644706	G6644895	
6	**46**	**47**	**48**	**49**	**50**	
7	**3.08**	4.17	4.25	**3.00**	4.00	
8	**3.33**	4.00	4.25	**3.17**	4.08	
9	3.88	5.46	5.35	3.90	5.17	
10	3.90	5.08	5.40	4.15	5.17	
11	4.86	4.97	4.65	3.99	5.10	
12	5.22	5.07	5.03	4.36	5.35	
13						
14	-1.77	-0.80	-0.40	-0.99	-1.10	-0.55
15	-1.52	-0.97	-0.40	-0.82	-1.02	-0.44
16	-0.98	0.49	0.71	-0.09	0.07	0.42
17	-0.96	0.12	0.75	0.16	0.07	0.37
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.36	0.10	0.38	0.37	0.25	0.33

Cell: M2
Comment: metrology1:
OLD TRIGGER

	A	B	C	D	E	F	G	H	I	J
1		9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007
2	**Gun #**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
3	**SKU**	27092	27097	27259	84050	84055	27049	27142	27047	27143
4	**Description**	700 ADL Youth Syn Scoped	700 ADL Synthetic Scoped	700 VSF	700 CDL B&C	700 CDL B&C	700 CDL	700 SPS SS DM Camo	700 CDL	700 SPS SS DM Camo
5	**S/N**	G6681961	G6676852	G6657024	G6664552	G6664380	G6636576	T6266701	G6636100	T6267293
6	**Chatillon Spring Scale SC**									
7	**Tester**	JD	JD	JD	JD	JD	JD	JD	JD	JD
8	**TP1**	4.50	4.25	3.00	4.75	4.25	4.50	4.00	3.75	4.25
9	**TP2**	4.50	4.00	3.25	4.75	4.75	5.00	3.75	3.50	4.25
10	**TP3**	4.25	4.00	3.00	4.75	4.50	4.75	3.75	3.50	4.50
11	**Avg**	**4.417**	**4.083**	**3.083**	**4.750**	**4.500**	**4.750**	**3.833**	**3.583**	**4.333**
12	**SD**	0.144	0.144	0.144	0.000	0.250	0.250	0.144	0.144	0.144
13										
14	**Chatillon Spring Scale NSC**									
15	**Tester**	JD	JD	JD	JD	JD	JD	JD	JD	JD
16	**TP1**	4.50	4.00	3.50	4.00	5.50	4.75	4.00	4.25	4.25
17	**TP2**	5.50	4.50	3.50	4.75	5.00	4.00	4.00	4.50	4.25
18	**TP3**	5.75	4.25	3.25	4.50	4.75	4.75	4.00	4.00	4.00
19	**Avg**	**5.250**	**4.250**	**3.417**	**4.417**	**5.083**	**4.500**	**4.000**	**4.250**	**4.167**
20	**SD**	0.661	0.250	0.144	0.382	0.382	0.433	0.000	0.250	0.144
21										
22	**Lyman Digital Scale SC**									
23	**Tester**	JD	JD	JD	JD	JD	JD	JD	JD	JD
24	**TP1**	5.438	5.250	3.875	6.125	5.500	6.188	4.688	4.250	5.250
25	**TP2**	5.563	5.750	3.688	5.563	5.500	5.500	4.625	4.500	5.000
26	**TP3**	5.500	5.625	3.750	5.500	5.250	5.500	4.938	4.438	5.188
27	**Avg**	**5.500**	**5.542**	**3.771**	**5.729**	**5.417**	**5.729**	**4.750**	**4.396**	**5.146**
28	**SD**	0.063	0.260	0.095	0.344	0.144	0.397	0.165	0.130	0.130
29										
30	**Lyman Digital Scale NSC**									
31	**Tester**	JD	JD	JD	JD	JD	JD	JD	JD	JD
32	**TP1**	5.625	4.438	2.125	3.688	4.813	4.938	4.313	3.938	4.875
33	**TP2**	7.313	5.938	4.125	6.000	6.000	5.750	4.875	5.125	4.938
34	**TP3**	6.875	5.563	3.813	5.688	5.375	5.625	5.000	5.063	5.063
35	**Avg**	**6.604**	**5.313**	**3.354**	**5.125**	**5.396**	**5.438**	**4.729**	**4.708**	**4.958**
36	**SD**	0.876	0.781	1.076	1.255	0.594	0.438	0.366	0.668	0.095
37										
38	**Dvorak Device SC**									
39	**Tester**	JR	SW	SW	SW	SW	SW	SW	SW	SW
40	**TP1**	4.336	5.712	3.407	5.294	5.131	5.637	4.857	4.052	4.633
41	**TP2**	4.396	5.423	3.606	5.102	5.017	6.023	4.838	4.105	4.832
42	**TP3**	4.379	5.089	3.608	5.275	5.159	5.458	4.894	4.064	4.915

	K	L	M	N	O	P	Q	R	S	T	U	V
1	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007
2	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**
3	84054	84270	27343	84174	84262	84012	84217	84217	84051	84051	27011	27011
4	700 CDL B&C	700 Mtn LSS	700 SPS DM	700 SPS Buckmasters Camo	700 Ti	700 CDL SF	700 SPS Varmint	700 SPS Varmint	700 CDL B&C	700 CDL B&C	700 CDL	700 CDL
5	G6670533	S6599579	D6631154	F6300481	TT009198	S6598705	G6646024	G6647888	G6663602	G6663521	G6635553	G6635543
6												
7	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
8	3.50	4.25	5.00	4.50	4.75	4.75	4.50	4.50	3.75	4.00	3.75	4.00
9	3.75	4.00	5.00	4.50	4.75	4.75	5.00	4.50	3.75	4.00	3.75	4.00
10	3.50	4.00	5.00	4.25	4.75	4.50	5.00	4.50	3.75	3.50	3.75	4.25
11	**3.583**	**4.083**	**5.000**	**4.417**	**4.750**	**4.667**	**4.833**	**4.500**	**3.750**	**3.833**	**3.750**	**4.083**
12	0.144	0.144	0.000	0.144	0.000	0.144	0.289	0.000	0.000	0.289	0.000	0.144
13												
14												
15	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
16	3.25	4.00	5.00	4.25	5.00	4.25	5.00	4.50	4.00	4.50	4.00	4.00
17	4.00	4.25	5.00	4.25	4.75	5.00	5.25	4.50	4.00	4.50	4.25	3.75
18	4.00	4.25	5.00	4.50	4.50	5.50	5.25	4.50	4.25	4.00	4.25	3.50
19	**3.750**	**4.167**	**5.000**	**4.333**	**4.750**	**4.917**	**5.167**	**4.500**	**4.083**	**4.333**	**4.167**	**3.750**
20	0.433	0.144	0.000	0.144	0.250	0.629	0.144	0.000	0.144	0.289	0.144	0.250
21												
22												
23	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
24	4.250	4.938	7.000	5.438	6.625	5.500	6.313	5.500	4.750	4.625	4.375	5.000
25	4.250	4.938	6.375	5.750	6.563	5.625	6.000	5.688	4.500	4.438	4.313	4.813
26	4.125	4.875	6.188	5.563	6.313	5.250	5.875	5.250	4.563	4.313	4.625	4.688
27	**4.208**	**4.917**	**6.521**	**5.583**	**6.500**	**5.458**	**6.063**	**5.479**	**4.604**	**4.458**	**4.438**	**4.833**
28	0.072	0.036	0.425	0.157	0.165	0.191	0.225	0.219	0.130	0.157	0.165	0.157
29												
30												
31	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
32	4.000	3.938	6.688	5.313	5.875	4.563	5.938	4.500	5.188	4.063	4.625	4.375
33	4.875	4.688	6.750	5.125	6.000	5.375	6.188	5.500	4.938	4.188	4.938	4.313
34	4.875	4.625	7.000	5.188	5.750	6.063	5.875	5.625	4.688	4.063	4.813	4.438
35	**4.583**	**4.417**	**6.813**	**5.208**	**5.875**	**5.333**	**6.000**	**5.208**	**4.938**	**4.104**	**4.792**	**4.375**
36	0.505	0.416	0.165	0.095	0.125	0.751	0.165	0.617	0.250	0.072	0.157	0.063
37												
38												
39	SW	SW	SW	SW	SW	SW	JR	SW	SW	SW	SW	SW
40	3.782	4.140	5.574	4.697	5.394	6.026	4.833	4.838	4.263	3.689	4.346	4.161
41	3.974	4.318	5.796	4.702	5.666	5.981	4.838	4.788	4.214	3.802	4.436	3.999
42	3.958	4.374	5.642	4.806	6.046	5.399	4.826	4.787	3.807	4.119	4.258	4.096

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
1	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/11/2007	9/12/2007	9/12/2007	9/12/2007
2	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**
3	27339	27339	27339	27339	27339	27339	27339	27095	27095	27053	27053	27053
4	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 ADL Syn Scoped	700 ADL Syn Scoped	700 CDL	700 CDL	700 CDL
5	G6644808	G6644642	G6644626	G6644667	G6644531	D6631039	G6644822	G6679354	G6679368	G6618936	G6635711	G6588956
6												
7	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
8	4.50	4.00	4.25	5.00	4.50	4.00	4.50	4.25	4.50	5.25	4.00	5.00
9	4.50	5.25	4.25	5.00	4.50	4.00	4.50	4.25	4.25	5.00	4.25	5.00
10	4.25	5.25	4.25	4.75	4.50	4.00	4.75	4.25	4.25	5.25	4.50	5.25
11	**4.417**	**4.833**	**4.250**	**4.917**	**4.500**	**4.000**	**4.583**	**4.250**	**4.333**	**5.167**	**4.250**	**5.083**
12	0.144	0.722	0.000	0.144	0.000	0.000	0.144	0.000	0.144	0.144	0.250	0.144
13												
14												
15	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
16	4.25	5.50	4.00	4.50	4.00	3.75	4.00	4.75	4.75	5.50	4.25	4.75
17	4.25	5.00	4.50	5.00	4.00	3.50	4.25	5.00	4.25	5.75	4.00	5.25
18	4.50	4.75	4.75	4.75	4.25	3.75	4.50	4.50	4.50	5.25	3.75	5.00
19	**4.333**	**5.083**	**4.417**	**4.750**	**4.083**	**3.667**	**4.250**	**4.750**	**4.500**	**5.500**	**4.000**	**5.000**
20	0.144	0.382	0.382	0.250	0.144	0.144	0.250	0.250	0.250	0.250	0.250	0.250
21												
22												
23	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
24	5.500	5.938	4.875	5.250	5.500	4.875	4.625	5.375	5.250	7.063	5.125	6.125
25	5.125	5.875	4.875	5.688	5.188	5.000	4.875	5.125	5.063	6.625	4.750	6.125
26	5.250	5.750	4.875	5.125	5.563	4.875	4.688	4.813	5.500	6.813	5.250	6.000
27	**5.292**	**5.854**	**4.875**	**5.354**	**5.417**	**4.917**	**4.729**	**5.104**	**5.271**	**6.833**	**5.042**	**6.083**
28	0.191	0.095	0.000	0.295	0.201	0.072	0.130	0.282	0.219	0.219	0.260	0.072
29												
30												
31	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
32	5.188	5.875	4.938	4.750	3.063	5.188	4.438	5.438	4.813	6.000	5.688	6.125
33	5.188	5.125	4.813	5.563	5.438	4.688	5.188	5.438	5.063	7.625	5.313	6.375
34	5.313	5.375	4.938	5.188	5.000	4.563	5.000	5.250	5.000	7.125	4.813	6.875
35	**5.229**	**5.458**	**4.896**	**5.167**	**4.500**	**4.813**	**4.875**	**5.375**	**4.958**	**6.917**	**5.271**	**6.458**
36	0.072	0.382	0.072	0.407	1.264	0.331	0.390	0.108	0.130	0.832	0.439	0.382
37												
38												
39	SW	JR	SW	SW	SW	JR	SW	SW	SW	SW	SW	SW
40	5.226	5.071	4.612	5.147	5.217	3.818	4.845	4.625	5.162	5.914	4.507	5.980
41	5.110	5.164	4.590	5.269	5.233	3.901	4.865	4.761	5.285	5.623	4.361	5.920
42	5.220	5.032	4.599	4.953	5.040	3.907	4.958	4.972	5.126	5.911	4.676	5.979

	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS
1	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007
2	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**
3	27053	27053	27053	27053	27053	84171	84171	84171	84171	84171	84171
4	700 CDL	700 CDL	700 CDL	700 CDL	700 CDL	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo
5	G6635930	G6636427	G6636386	G6636450	G6588913	G6639742	G6639723	G6642690	G6642664	G6641189	G6642714
6											
7	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
8	4.25	3.50	3.50	4.50	4.00	3.25	4.25	4.50	5.25	3.50	4.00
9	4.00	3.50	3.75	4.25	3.75	3.00	4.50	4.50	5.00	3.75	4.00
10	4.00	3.50	3.50	4.25	3.50	3.00	4.50	4.75	4.75	3.75	4.00
11	**4.083**	**3.500**	**3.583**	**4.333**	**3.750**	**3.083**	**4.417**	**4.583**	**5.000**	**3.667**	**4.000**
12	0.144	0.000	0.144	0.144	0.250	0.144	0.144	0.144	0.250	0.144	0.000
13											
14											
15	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
16	4.25	3.50	3.50	4.75	3.50	3.50	4.25	4.50	4.75	4.00	4.00
17	3.75	3.75	3.50	4.25	4.50	3.25	5.00	4.75	5.00	4.50	4.50
18	4.25	3.50	3.50	4.25	4.50	3.00	4.75	4.75	5.00	4.50	4.75
19	**4.083**	**3.583**	**3.500**	**4.417**	**4.167**	**3.250**	**4.667**	**4.667**	**4.917**	**4.333**	**4.417**
20	0.289	0.144	0.000	0.289	0.577	0.250	0.382	0.144	0.144	0.289	0.382
21											
22											
23	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
24	5.063	4.875	4.375	5.438	4.563	4.875	5.438	6.125	6.063	4.688	5.313
25	4.813	4.688	4.625	5.125	4.313	4.750	5.438	5.875	6.250	4.750	4.813
26	4.875	4.313	4.313	4.688	4.313	4.875	5.563	5.813	6.250	4.688	5.125
27	**4.917**	**4.625**	**4.438**	**5.083**	**4.396**	**4.833**	**5.479**	**5.938**	**6.188**	**4.708**	**5.083**
28	0.130	0.286	0.165	0.377	0.144	0.072	0.072	0.165	0.108	0.036	0.253
29											
30											
31	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD
32	5.063	2.625	5.438	4.938	4.188	5.313	5.688	5.563	6.313	4.938	4.875
33	4.938	4.438	4.813	5.313	4.188	4.250	5.688	5.750	6.375	5.625	5.313
34	4.938	4.875	4.688	5.375	4.000	4.000	5.688	5.313	6.250	6.125	5.375
35	**4.979**	**3.979**	**4.979**	**5.208**	**4.125**	**4.521**	**5.688**	**5.542**	**6.313**	**5.563**	**5.188**
36	0.072	1.193	0.402	0.237	0.108	0.697	0.000	0.219	0.063	0.596	0.272
37											
38											
39	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
40	4.482	3.855	4.055	4.639	4.045	3.393	5.093	5.140	5.625	4.233	4.358
41	4.331	4.153	3.907	4.249	4.146	3.396	5.026	5.036	5.551	4.218	4.536
42	4.336	4.171	4.114	4.998	4.248	3.450	5.078	5.049	5.610	4.355	4.350

	AT	AU	AV	AW	AX	AY
1	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007	9/12/2007
2	**45**	**46**	**47**	**48**	**49**	**50**
3	27335	27335	27335	27335	27335	27335
4	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM
5	D6629503	D6629533	G6644775	D6630873	G6644706	G6644895
6						
7	JD	JD	JD	JD	JD	JD
8	4.00	3.25	4.00	4.00	3.00	4.25
9	4.00	3.00	4.25	4.25	3.00	4.00
10	4.25	3.00	4.25	4.50	3.00	3.75
11	**4.083**	**3.083**	**4.167**	**4.250**	**3.000**	**4.000**
12	0.144	0.144	0.144	0.250	0.000	0.250
13						
14						
15	JD	JD	JD	JD	JD	JD
16	4.25	3.50	3.75	4.25	3.50	4.00
17	4.00	3.25	4.00	4.25	3.00	4.00
18	4.50	3.25	4.25	4.25	3.00	4.25
19	**4.250**	**3.333**	**4.000**	**4.250**	**3.167**	**4.083**
20	0.250	0.144	0.250	0.000	0.289	0.144
21						
22						
23	JD	JD	JD	JD	JD	JD
24	4.625	3.813	5.563	5.438	3.938	5.250
25	5.188	3.938	5.563	5.063	4.063	5.188
26	5.063	3.875	5.250	5.563	3.688	5.063
27	**4.958**	**3.875**	**5.458**	**5.354**	**3.896**	**5.167**
28	0.295	0.063	0.180	0.260	0.191	0.095
29						
30						
31	JD	JD	JD	JD	JD	JD
32	4.625	4.000	4.813	5.563	4.250	4.813
33	5.188	3.813	5.313	5.313	3.875	5.313
34	4.875	3.875	5.125	5.313	4.313	5.375
35	**4.896**	**3.896**	**5.083**	**5.396**	**4.146**	**5.167**
36	0.282	0.095	0.253	0.144	0.237	0.308
37						
38						
39	SW	SW	SW	SW	SW	SW
40	4.850	4.850	4.907	4.483	4.077	5.025
41	4.823	4.823	5.028	4.710	3.962	5.271
42	4.821	4.821	4.870	4.555	4.037	5.089

	A	B	C	D	E	F	G	H	I	J
43	**TP4**	4.412	5.699	3.260	5.472	5.155	5.788	4.829	4.046	4.913
44	**TP5**	4.319	5.302	3.455	5.672	5.170	5.952	4.773	4.057	4.880
45	**Avg**	**4.368**	**5.445**	**3.467**	**5.363**	**5.126**	**5.772**	**4.838**	**4.065**	**4.835**
46	**SD**	0.040	0.266	0.146	0.217	0.063	0.230	0.044	0.023	0.118
47										
48	**Dvorak Device NSC**									
49	**Tester**	JR	SW	SW	SW	SW	SW	SW	SW	SW
50	**TP1**	6.344	5.505	3.380	5.316	5.076	6.009	5.265	4.752	5.282
51	**TP2**	6.336	5.394	3.591	6.388	5.391	5.962	5.547	4.326	5.062
52	**TP3**	6.305	5.266	3.604	5.586	5.796	5.763	5.465	4.451	4.980
53	**TP4**	6.722	5.294	3.636	6.272	6.050	5.853	5.480	4.828	4.918
54	**TP5**	6.573	5.084	3.597	6.212	5.715	5.806	5.465	4.877	4.931
55	**Avg**	**6.456**	**5.309**	**3.562**	**5.955**	**5.606**	**5.879**	**5.444**	**4.647**	**5.035**
56	**SD**	0.183	0.157	0.103	0.474	0.378	0.104	0.106	0.244	0.149

	K	L	M	N	O	P	Q	R	S	T	U	V
43	4.034	4.436	5.817	4.811	5.775	5.659	4.762	4.802	4.174	3.877	4.311	4.308
44	4.142	4.141	5.759	4.788	5.800	5.861	4.786	4.781	4.102	3.843	4.299	3.858
45	**3.978**	**4.282**	**5.718**	**4.761**	**5.736**	**5.785**	**4.809**	**4.799**	**4.112**	**3.866**	**4.330**	**4.084**
46	0.131	0.136	0.105	0.057	0.236	0.258	0.033	0.023	0.180	0.158	0.067	0.169
47												
48												
49	SW	SW	SW	SW	SW	SW	JR	SW	SW	SW	SW	SW
50	4.712	4.885	6.072	4.879	5.764	6.018	5.253	5.274	4.111	3.862	5.396	4.320
51	4.005	4.608	6.044	4.723	5.773	5.847	5.434	5.241	4.550	3.981	5.042	4.309
52	4.388	4.739	6.001	4.700	5.832	5.674	5.491	5.237	4.221	3.646	5.350	4.213
53	4.307	4.565	6.010	4.696	5.898	5.344	5.503	5.270	4.155	3.792	5.380	3.914
54	4.309	4.736	6.096	4.754	5.986	5.481	5.789	5.250	4.518	3.888	5.048	4.047
55	**4.344**	**4.707**	**6.045**	**4.750**	**5.851**	**5.673**	**5.494**	**5.254**	**4.311**	**3.834**	**5.243**	**4.161**
56	0.252	0.126	0.040	0.076	0.093	0.271	0.193	0.017	0.208	0.125	0.182	0.176

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
43	5.178	5.348	4.618	5.093	5.134	3.935	5.004	4.673	5.124	6.034	4.572	5.886
44	5.220	4.991	4.599	4.979	5.106	3.975	5.018	4.683	5.176	5.644	4.461	5.968
45	**5.191**	**5.121**	**4.604**	**5.088**	**5.146**	**3.907**	**4.938**	**4.743**	**5.175**	**5.825**	**4.515**	**5.947**
46	0.049	0.142	0.011	0.129	0.080	0.058	0.079	0.137	0.066	0.182	0.118	0.042
47												
48												
49	SW	JR	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
50	5.155	5.035	5.445	5.236	5.005	4.523	5.402	5.180	5.495	6.353	4.909	6.469
51	5.139	5.062	5.115	5.434	4.957	4.577	5.392	4.887	5.390	5.992	4.866	6.044
52	5.107	4.964	4.782	5.115	5.039	4.823	5.539	4.966	5.366	6.468	4.572	6.572
53	5.281	5.082	5.193	5.157	5.117	4.674	5.502	4.431	5.264	6.576	4.607	6.480
54	5.138	5.096	5.019	5.098	4.984	4.598	5.540	5.060	5.392	5.797	4.694	6.533
55	**5.164**	**5.048**	**5.111**	**5.208**	**5.020**	**4.639**	**5.475**	**4.905**	**5.381**	**6.237**	**4.730**	**6.420**
56	0.068	0.052	0.242	0.137	0.062	0.116	0.073	0.287	0.082	0.330	0.152	0.214

	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS
43	4.342	4.145	4.133	4.698	4.428	3.430	5.105	5.122	5.630	4.228	4.448
44	4.817	3.973	3.928	4.647	4.185	3.407	5.190	5.033	5.644	4.323	4.433
45	**4.462**	**4.059**	**4.027**	**4.646**	**4.210**	**3.415**	**5.098**	**5.076**	**5.612**	**4.271**	**4.425**
46	0.208	0.139	0.105	0.267	0.142	0.024	0.059	0.051	0.036	0.063	0.076
47											
48											
49	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
50	4.645	4.573	4.198	4.858	4.668	4.072	4.891	5.045	5.512	5.903	5.445
51	4.444	4.622	4.174	4.595	4.498	3.444	5.099	5.131	5.709	5.144	5.642
52	4.691	4.538	4.120	4.903	4.507	3.592	4.874	5.185	5.655	5.331	5.680
53	4.416	4.446	4.258	4.851	4.421	3.691	4.913	5.226	5.501	5.311	5.731
54	4.518	4.499	3.936	4.877	4.346	3.434	5.032	5.250	5.529	5.377	5.061
55	**4.543**	**4.536**	**4.137**	**4.817**	**4.488**	**3.647**	**4.962**	**5.167**	**5.581**	**5.413**	**5.512**
56	0.121	0.068	0.123	0.126	0.120	0.261	0.099	0.082	0.095	0.288	0.274

	AT	AU	AV	AW	AX	AY
43	4.866	4.866	4.984	4.713	3.892	4.829
44	4.926	4.926	5.046	4.768	3.984	5.279
45	**4.857**	**4.857**	**4.967**	**4.646**	**3.990**	**5.099**
46	0.043	0.043	0.076	0.121	0.071	0.187
47						
48						
49	SW	SW	SW	SW	SW	SW
50	5.258	5.258	5.127	5.039	4.237	5.406
51	5.258	5.258	5.077	5.058	4.234	5.281
52	5.334	5.334	5.044	5.029	4.444	5.317
53	5.089	5.089	5.020	5.078	4.447	5.392
54	5.141	5.141	5.069	4.923	4.419	5.331
55	**5.216**	**5.216**	**5.067**	**5.025**	**4.356**	**5.345**
56	0.099	0.099	0.040	0.060	0.111	0.052

Cell: A1
Comment: metrology1:
normal testing order was spring scale NSC - spring scale SC - Lyman NSC - Lyman SC - Dvorak SC - Dvorak NSC
SC = safety cycling
NSC = no safety cycling

Cell: M2
Comment: metrology1:
OLD TRIGGER

Cell: L15
Comment: metrology1:
measured second

Cell: M15
Comment: metrology1:
measured second

Cell: L31
Comment: metrology1:
measured first

Cell: M31
Comment: metrology1:
measured first

	A	B	C	D	E	F	G	H	I	J
1										
2	**Gun #**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
3	**SKU**	27092	27097	27259	84050	84055	27049	27142	27047	27143
4	**Description**	700 ADL Youth Syn Scoped	700 ADL Synthetic Scoped	700 VSF	700 CDL B&C	700 CDL B&C	700 CDL	700 SPS SS DM Camo	700 CDL	700 SPS SS DM Camo
5	**S/N**	G6681961	G6676852	G6657024	G6664552	G6664380	G6636576	T6266701	G6636100	T6267293
6		**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
7	Chatillon SC Avg	4.42	4.08	**3.08**	4.75	4.50	4.75	3.83	3.58	4.33
8	Chatillon NSC Avg	5.25	4.25	**3.42**	4.42	5.08	4.50	4.00	4.25	4.17
9	Lyman SC Avg	5.50	**5.54**	3.77	**5.73**	5.42	**5.73**	4.75	4.40	5.15
10	Lyman NSC Avg	**6.60**	5.31	**3.35**	5.13	5.40	5.44	4.73	4.71	4.96
11	Dvorak SC Avg	4.37	5.45	**3.47**	5.36	5.13	**5.77**	4.84	4.06	4.83
12	Dvorak NSC Avg	**6.46**	5.31	3.56	**5.95**	**5.61**	**5.88**	5.44	4.65	5.03
13										
14	Chatillon SC vs Dvorak SC	0.05	-1.36	-0.38	-0.61	-0.63	-1.02	-1.00	-0.48	-0.50
15	Chatillon NSC vs Dvorak SC	0.88	-1.20	-0.05	-0.95	-0.04	-1.27	-0.84	0.19	-0.67
16	Lyman SC vs Dvorak SC	1.13	0.10	0.30	0.37	0.29	-0.04	-0.09	0.33	0.31
17	Lyman NSC vs Dvorak SC	2.24	-0.13	-0.11	-0.24	0.27	-0.33	-0.11	0.64	0.12
18	Dvorak SC vs Dvorak SC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	Dvorak NSC vs Dvorak SC	2.09	-0.14	0.09	0.59	0.48	0.11	0.61	0.58	0.20

	K	L	M	N	O	P	Q	R	S	T	U	V
1												
2	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**
3	84054	84270	27343	84174	84262	84012	84217	84217	84051	84051	27011	27011
4	700 CDL B&C	700 Mtn LSS	700 SPS DM	700 SPS Buckmasters Camo	700 Ti	700 CDL SF	700 SPS Varmint	700 SPS Varmint	700 CDL B&C	700 CDL B&C	700 CDL	700 CDL
5	G6670533	S6599579	D6631154	F6300481	TT009198	S6598705	G6646024	G6647888	G6663602	G6663521	G6635553	G6635543
6	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**
7	3.58	4.08	5.00	4.42	4.75	4.67	4.83	4.50	3.75	3.83	3.75	4.08
8	3.75	4.17	5.00	4.33	4.75	4.92	5.17	4.50	4.08	4.33	4.17	3.75
9	4.21	4.92	**6.52**	**5.58**	**6.50**	5.46	**6.06**	5.48	4.60	4.46	4.44	4.83
10	4.58	4.42	**6.81**	5.21	**5.88**	5.33	**6.00**	5.21	4.94	4.10	4.79	4.38
11	3.98	4.28	**5.72**	4.76	**5.74**	**5.79**	4.81	4.80	4.11	3.87	4.33	4.08
12	4.34	4.71	**6.04**	4.75	**5.85**	**5.67**	5.49	5.25	4.31	3.83	5.24	4.16
13												
14	-0.39	-0.20	-0.72	-0.34	-0.99	-1.12	0.02	-0.30	-0.36	-0.03	-0.58	0.00
15	-0.23	-0.12	-0.72	-0.43	-0.99	-0.87	0.36	-0.30	-0.03	0.47	-0.16	-0.33
16	0.23	0.63	0.80	0.82	0.76	-0.33	1.25	0.68	0.49	0.59	0.11	0.75
17	0.61	0.13	1.09	0.45	0.14	-0.45	1.19	0.41	0.83	0.24	0.46	0.29
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.37	0.42	0.33	-0.01	0.11	-0.11	0.69	0.46	0.20	-0.03	0.91	0.08

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
1												
2	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**
3	27339	27339	27339	27339	27339	27339	27339	27095	27095	27053	27053	27053
4	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 ADL Syn Scoped	700 ADL Syn Scoped	700 CDL	700 CDL	700 CDL
5	G6644808	G6644642	G6644626	G6644667	G6644531	D6631039	G6644822	G6679354	G6679368	G6618936	G6635711	G6588956
6	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**
7	4.42	4.83	4.25	4.92	4.50	4.00	4.58	4.25	4.33	5.17	4.25	5.08
8	4.33	5.08	4.42	4.75	4.08	3.67	4.25	4.75	4.50	5.50	4.00	5.00
9	5.29	**5.85**	4.88	5.35	5.42	4.92	4.73	5.10	5.27	**6.83**	5.04	**6.08**
10	5.23	5.46	4.90	5.17	4.50	4.81	4.88	5.38	4.96	**6.92**	5.27	**6.46**
11	5.19	5.12	4.60	5.09	5.15	3.91	4.94	4.74	5.17	**5.83**	4.52	**5.95**
12	5.16	5.05	5.11	5.21	5.02	4.64	5.48	4.90	5.38	**6.24**	4.73	**6.42**
13												
14	-0.77	-0.29	-0.35	-0.17	-0.65	0.09	-0.35	-0.49	-0.84	-0.66	-0.27	-0.86
15	-0.86	-0.04	-0.19	-0.34	-1.06	-0.24	-0.69	0.01	-0.67	-0.33	-0.52	-0.95
16	0.10	0.73	0.27	0.27	0.27	1.01	-0.21	0.36	0.10	1.01	0.53	0.14
17	0.04	0.34	0.29	0.08	-0.65	0.91	-0.06	0.63	-0.22	1.09	0.76	0.51
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	-0.03	-0.07	0.51	0.12	-0.13	0.73	0.54	0.16	0.21	0.41	0.21	0.47

	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
1												
2	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
3	27053	27053	27053	27053	27053	84171	84171	84171	84171	84171	84171	27335
4	700 CDL	700 CDL	700 CDL	700 CDL	700 CDL	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS Buckmasters Camo	700 SPS DM
5	G6635930	G6636427	G6636386	G6636450	G6588913	G6639742	G6639723	G6642690	G6642664	G6641189	G6642714	D6629503
6	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
7	4.08	3.50	3.58	4.33	3.75	**3.08**	4.42	4.58	5.00	3.67	4.00	4.08
8	4.08	3.58	3.50	4.42	4.17	**3.25**	4.67	4.67	4.92	4.33	4.42	4.25
9	4.92	4.63	4.44	5.08	4.40	4.83	5.48	**5.94**	**6.19**	4.71	5.08	4.96
10	4.98	3.98	4.98	5.21	4.13	4.52	**5.69**	**5.54**	**6.31**	**5.56**	5.19	4.90
11	4.46	4.06	4.03	4.65	4.21	**3.42**	5.10	5.08	**5.61**	4.27	4.43	4.86
12	4.54	4.54	4.14	4.82	4.49	3.65	4.96	5.17	**5.58**	5.41	**5.51**	5.22
13												
14	-0.38	-0.56	-0.44	-0.31	-0.46	-0.33	-0.68	-0.49	-0.61	-0.60	-0.43	-0.77
15	-0.38	-0.48	-0.53	-0.23	-0.04	-0.17	-0.43	-0.41	-0.70	0.06	-0.01	-0.61
16	0.46	0.57	0.41	0.44	0.19	1.42	0.38	0.86	0.58	0.44	0.66	0.10
17	0.52	-0.08	0.95	0.56	-0.09	1.11	0.59	0.47	0.70	1.29	0.76	0.04
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.08	0.48	0.11	0.17	0.28	0.23	-0.14	0.09	-0.03	1.14	1.09	0.36

	AU	AV	AW	AX	AY	AZ
1						
2	**46**	**47**	**48**	**49**	**50**	
3	27335	27335	27335	27335	27335	
4	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	700 SPS DM	
5	D6629533	G6644775	D6630873	G6644706	G6644895	
6	**46**	**47**	**48**	**49**	**50**	
7	**3.08**	4.17	4.25	**3.00**	4.00	
8	**3.33**	4.00	4.25	**3.17**	4.08	
9	3.88	5.46	5.35	3.90	5.17	
10	3.90	5.08	5.40	4.15	5.17	
11	4.86	4.97	4.65	3.99	5.10	
12	5.22	5.07	5.03	4.36	5.35	
13						
14	-1.77	-0.80	-0.40	-0.99	-1.10	-0.55
15	-1.52	-0.97	-0.40	-0.82	-1.02	-0.44
16	-0.98	0.49	0.71	-0.09	0.07	0.42
17	-0.96	0.12	0.75	0.16	0.07	0.37
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.36	0.10	0.38	0.37	0.25	0.33

Cell: M2
Comment: metrology1:
OLD TRIGGER

	A	B	C	D	E	F	G	H	I
1	TT009198								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 Ti		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.764	0.021	0.005	0.032	0.079	
5			2	5.773	0.019	0.006	0.033	0.07	
6			3	5.832	0.02	0.006	0.032	0.076	
7			4	5.898	0.019	0.006	0.033	0.072	
8			5	5.986	0.019	0	0.033	0.073	
9			Avg:	5.851	0.02	0.005	0.033	0.074	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.851	0.02	0.005	0.033	0.074	0.00 ms

	A	B	C	D	E	F	G	H	I
1	TT009198								
2	Make:	Model:	Test Nr.	Force	Travel	Take-up	Overtravel	Energy	Lock Time
3	Remington	700 Ti		[lbs]	[inch]	[inch]	[inch]	[lbs.inch]	[ms]
4	Single Action		1	5.394	0.019	0.006	0.033	0.069	
5			2	5.666	0.019	0.006	0.033	0.069	
6			3	6.046	0.019	0.005	0.033	0.072	
7			4	5.775	0.023	0.006	0.032	0.084	
8			5	5.8	0.019	0	0.033	0.073	
9			Avg:	5.736	0.02	0.005	0.033	0.073	0.00 ms
10									
11									
12	TOTAL AVG								
13	Single Action			5.736	0.02	0.005	0.033	0.073	0.00 ms

301429 Torque Testing

Purpose:

The purpose of this test is to measure the torque required to move the trigger pull adjustment screw (301429) in the X-Mark Pro Externally Adjusta (301463) for normal adjustments. The data will be used to determine the torque limits for the hex bit to knob for the adjustment wrench supplied v gun to the consumer. Torque will also be measured for informational purposes when the locking element on the adjustment screw is initially engra establish the torque level for installation. This engraving will normally be done at assembly.

Procedure:

The trigger assembly used for testing will be mounted in the test fixture using two 1/8" dowel pins through the mounting holes. The adjustment sc started into the threads in the trigger. A 1/16" hex key will be inserted into the socket in the adjustment screw. A Chatillon digital force gage is to such that it contacts the hex key at a right angle 1" from the centerline of the adjustment screw (distance verified with a machinist's scale). With t gage zeroed for force (both instantaneous and peak), the trigger assembly will be rotated slowly through 180 degrees. The peak torque for this ro be recorded, the gage re-zeroed, and the wrench reset to measure torque for the next 180 degreee arc. This procedure is to be repeated until the adjustment screw bottoms out in the trigger.

Data:

TA #1		Engraving		Normal		TA #5		Engraving		Normal		TA #7	Engr
7SS		Angle	Force	Angle	Force		700SS	Angle	Force	Angle	Force		700SS	Angle
	1	180	0.475	180	0.145		1	180	0.185	180	0.110		1	180
		360	0.425	360	0.215			360	0.585	360	0.180			360
	2	540	1.300	540	0.320		2	540	0.940	540	0.355		2	540
		720	1.215	720	0.250			720	0.770	720	0.265			720
	3	900	1.750	900	0.565		3	900	0.830	900	0.275		3	900
		1080	1.740	1080	0.485			1080	1.135	1080	0.635			1080
	4	1260	1.990	1260	0.480		4	1260	1.010	1260	0.455		4	1260
		1440	1.730	1440	0.465			1440	0.995	1440	0.530			1440
	5	1620	1.130	1620	0.365		5	1620	1.010	1620	0.495		5	1620
		1800	1.025	1800	0.385			1800	0.660	1800	0.395			1800
	6	1980	1.455	1980	0.430		6	1980	0.975	1980	0.195		6	1980
		2160		2160				2160		2160				2160
	7	2340		2340			7	2340		2340			7	2340
		2520		2520				2520		2520				2520

Conclusion:

Maximum mesured torque for the sample tested was 1.295 lbs. If the hex bit to knob interface is capable of supporting 5 in-lbs, there will be suffi with the wrench design to ensure that the hex bit does not turn inside the knob during any forseeable operating conditions.

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE
1																	
2	able trigger																
3	vith the																
4	ved to																
5																	
6																	
7																	
8																	
9	rew will be																
10	e set up																
11	ne force																
12	ation will																
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20	aving	Normal			TA #2	Engraving		Normal			TA #3	Engraving		Normal			TA #6
21	Force	Angle	Force		7SS	Angle	Force	Angle	Force		7SS	Angle	Force	Angle	Force		700SS
22	0.110	180	0.100		1	180	0.270	180	0.105		1	180	0.565	180	0.145		1
23	0.105	360	0.105			360	0.260	360	0.175			360	0.455	360	0.150		
24	0.170	540	0.090		2	540	0.330	540	0.180		2	540	0.965	540	0.260		2
25	0.115	720	0.090			720	1.110	720	0.165			720	1.115	720	0.350		
26	0.580	900	0.235		3	900	0.865	900	0.260		3	900	1.910	900	0.420		3
27	0.890	1080	0.275			1080	1.445	1080	0.355			1080	2.245	1080	0.460		
28	1.485	1260	0.430		4	1260	1.105	1260	0.445		4	1260	1.850	1260	0.470		4
29	1.620	1440	0.585			1440	1.740	1440	0.555			1440	2.075	1440	0.685		
30	1.545	1620	0.715		5	1620	1.335	1620	0.615		5	1620	1.605	1620	0.810		5
31	1.430	1800	0.915			1800	1.525	1800	0.635			1800	1.260	1800	0.530		
32	1.130	1980	0.775		6	1980	0.860	1980	0.615		6	1980	0.970	1980	0.335		6
33	0.680	2160	0.485			2160	0.465	2160	0.325			2160	1.990	2160	0.580		
34	1.385	2340	1.595		7	2340	0.870	2340	0.720		7	2340		2340			7
35		2520				2520		2520				2520		2520			
36																	
37																	
38																	
39	cient safety margin																
40																	
41																	
42																	
43																	
44																	

	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
20	Engraving		Normal			TA #4	Engraving		Normal			TA #10	Engraving		Normal		
21	Angle	Force	Angle	Force		7SS	Angle	Force	Angle	Force		700SS	Angle	Force	Angle	Force	
22	180	0.350	180	0.070		1	180	0.845	180	0.270		1	180	0.410	180	0.275	
23	360	0.450	360	0.140			360	0.350	360	0.160			360	0.965	360	0.260	
24	540	0.740	540	0.165		2	540	0.490	540	0.135		2	540	1.160	540	0.265	
25	720	0.975	720	0.200			720	1.075	720	0.115			720	2.290	720	0.370	
26	900	1.115	900	0.445		3	900	0.995	900	0.270		3	900	2.075	900	0.420	
27	1080	1.795	1080	0.280			1080	1.255	1080	0.385			1080	2.590	1080	0.670	
28	1260	1.655	1260	0.420		4	1260	1.475	1260	0.525		4	1260	2.515	1260	0.760	
29	1440	2.115	1440	0.575			1440	1.385	1440	0.505			1440	2.630	1440	0.975	
30	1620	2.490	1620	0.695		5	1620	1.695	1620	0.680		5	1620	2.690	1620	1.250	
31	1800	2.210	1800	0.985			1800	1.255	1800	0.625			1800	1.635	1800	0.920	
32	1980	1.165	1980	0.845		6	1980	1.090	1980	0.615		6	1980	1.140	1980	0.715	
33	2160	0.965	2160	0.630			2160	0.645	2160	0.410			2160	1.770	2160	0.895	
34	2340	2.340	2340	0.405		7	2340	1.160	2340	1.090		7	2340		2340		
35	2520		2520				2520		2520				2520		2520		

	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG
20	TA #8	Engraving		Normal			TA #9	Engraving		Normal	
21	700SS	Angle	Force	Angle	Force		700SS	Angle	Force	Angle	Force
22	1	180	0.635	180	0.340		1	180	0.560	180	0.090
23		360	0.490	360	0.250			360	0.435	360	0.120
24	2	540	0.795	540	0.295		2	540	0.550	540	0.170
25		720	1.235	720	0.100			720	1.115	720	0.255
26	3	900	2.255	900	0.560		3	900	1.085	900	0.275
27		1080	1.930	1080	0.495			1080	1.725	1080	0.655
28	4	1260	2.575	1260	0.540		4	1260	1.660	1260	0.585
29		1440	1.900	1440	0.810			1440	2.120	1440	0.890
30	5	1620	3.460	1620	0.885		5	1620	1.740	1620	0.790
31		1800	3.060	1800	1.295			1800	1.730	1800	0.910
32	6	1980	2.250	1980	1.160		6	1980	1.085	1980	0.530
33		2160	1.120	2160	0.455			2160	0.920	2160	0.410
34	7	2340	1.510	2340	0.655		7	2340		2340	
35		2520		2520				2520		2520	

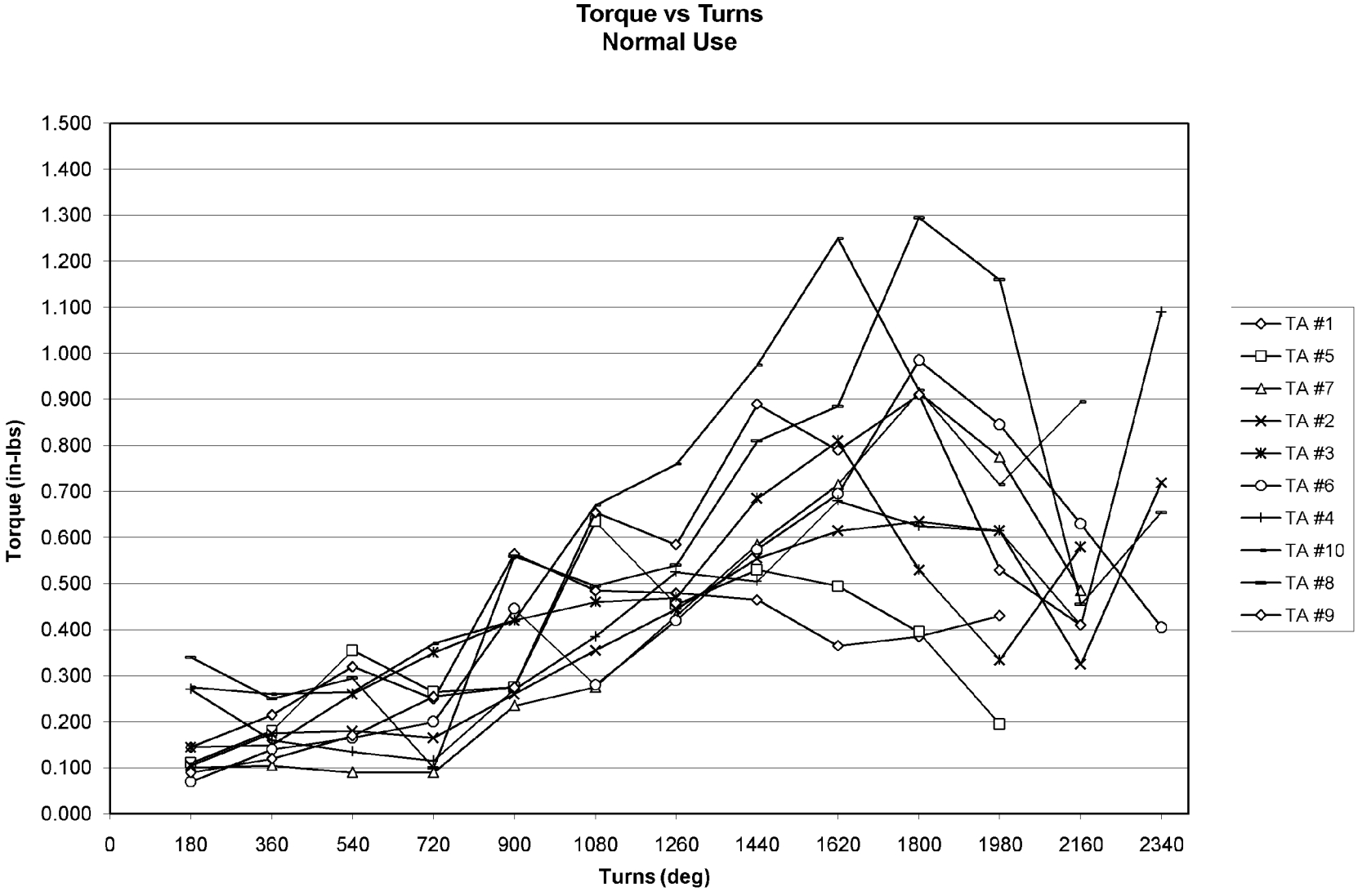
Cell: O21
Comment: ronkainejw:
original screw was only partially engraved, giving lower torque for first part of engraving measurements

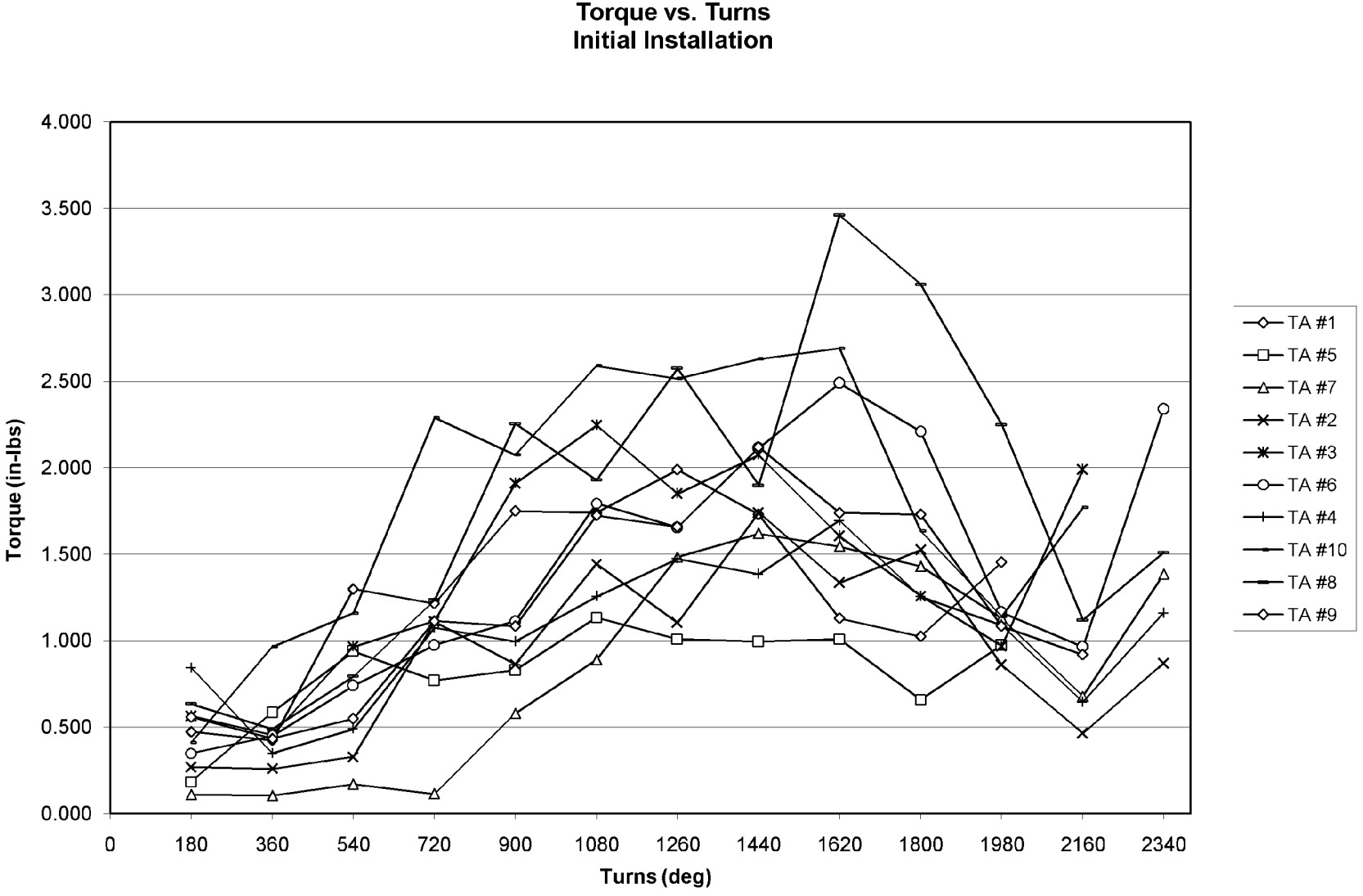
Cell: C32
Comment: ronkainejw:
it was hard to tell where the screw bottomed out, so I may have overshot the point of contact

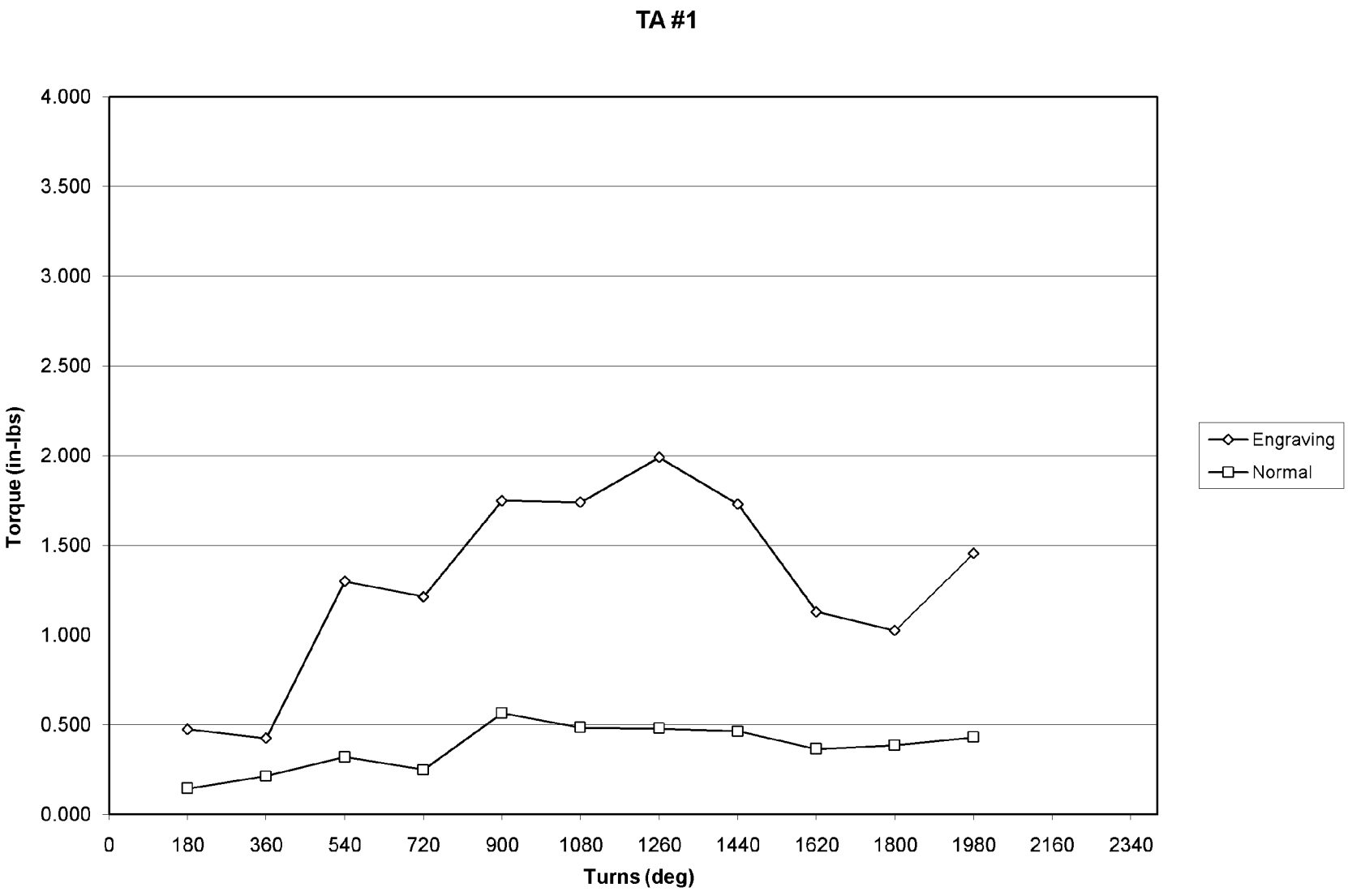
Cell: AC33
Comment: ronkainejw:
stopped after 90 degrees of rotation.

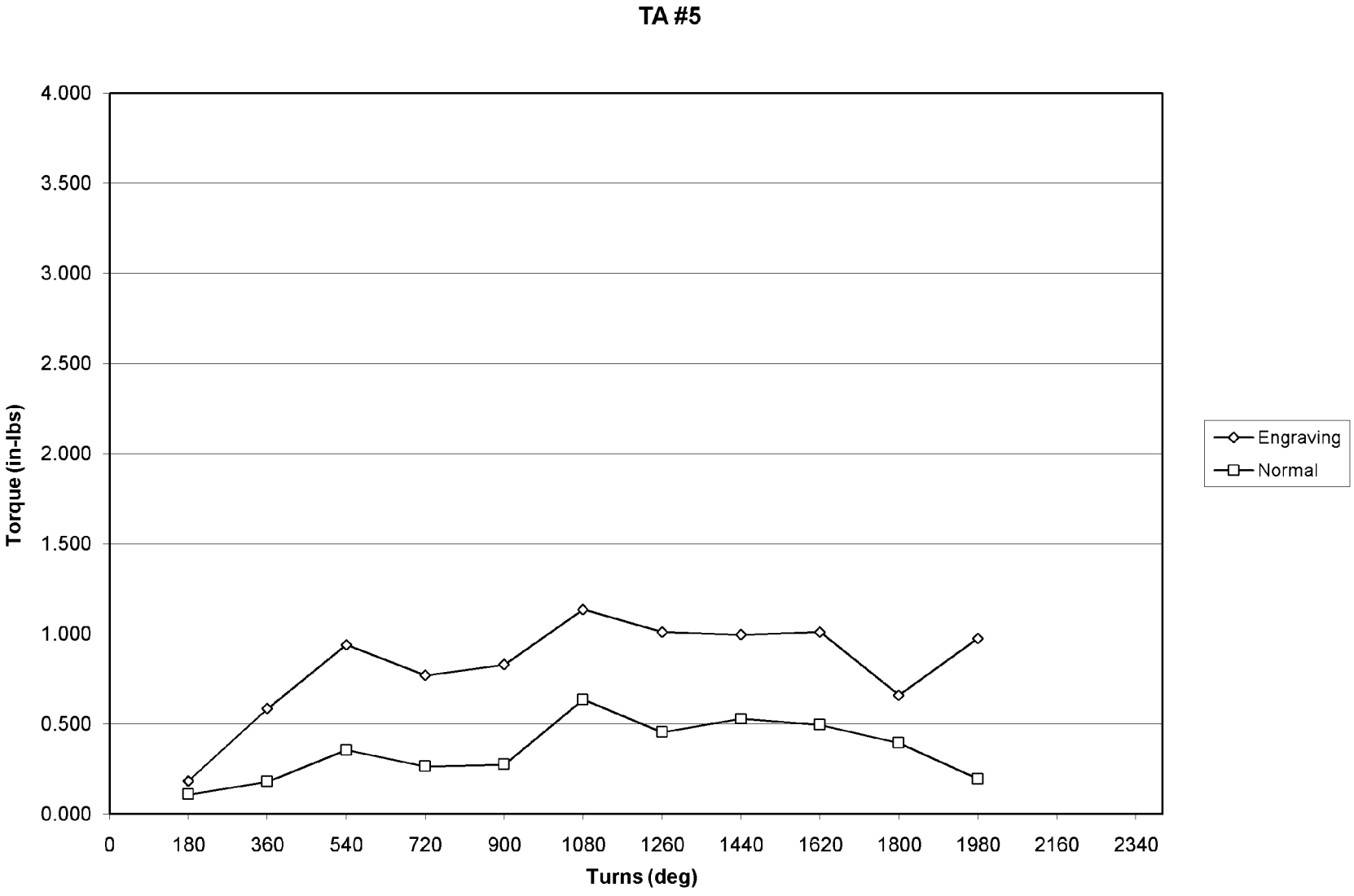
Cell: AM34
Comment: ronkainejw:
stopped after 90 degrees of rotation - felt screw bottom out

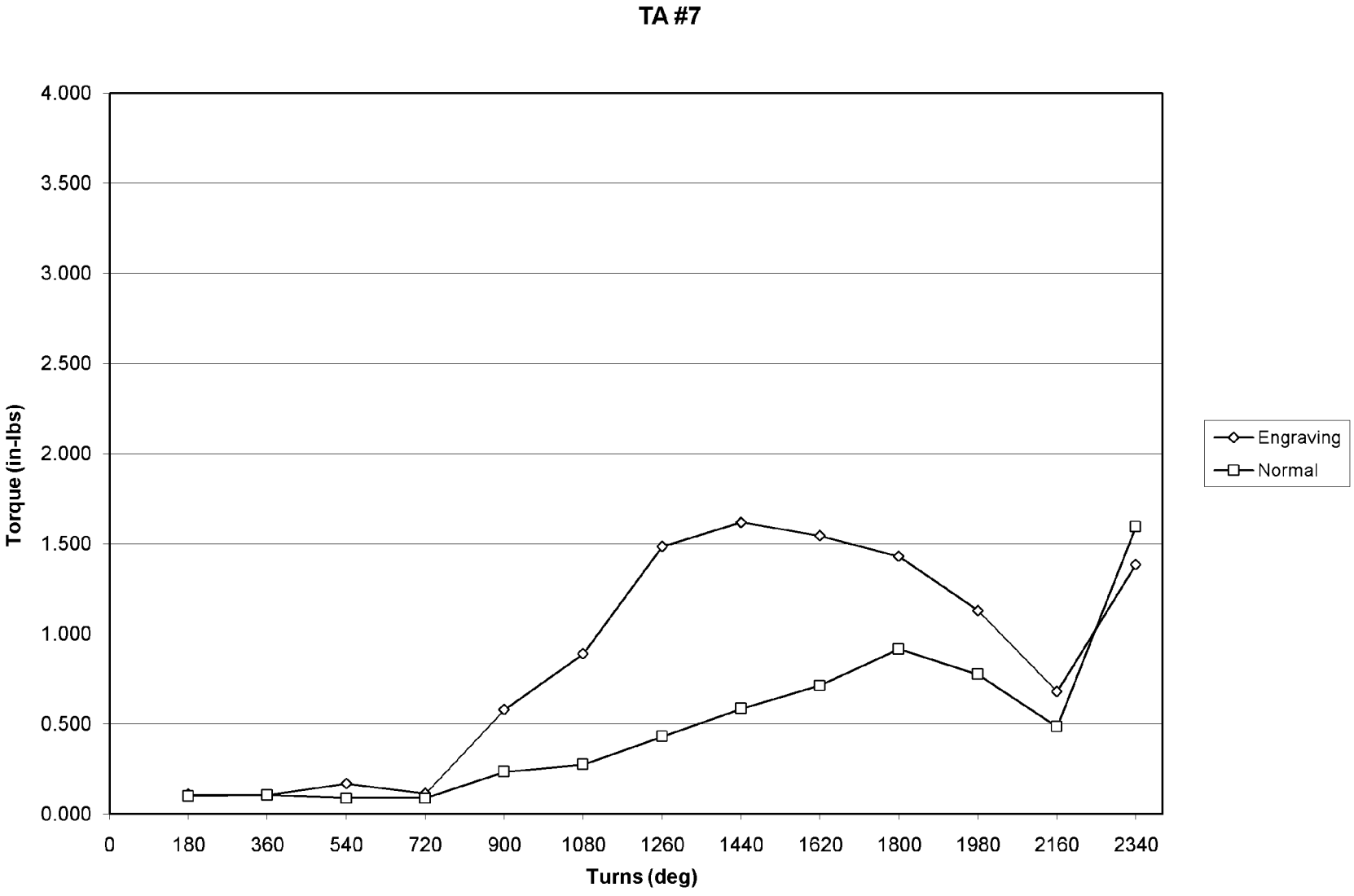
Cell: AY34
Comment: ronkainejw:
stopped after 90 degrees

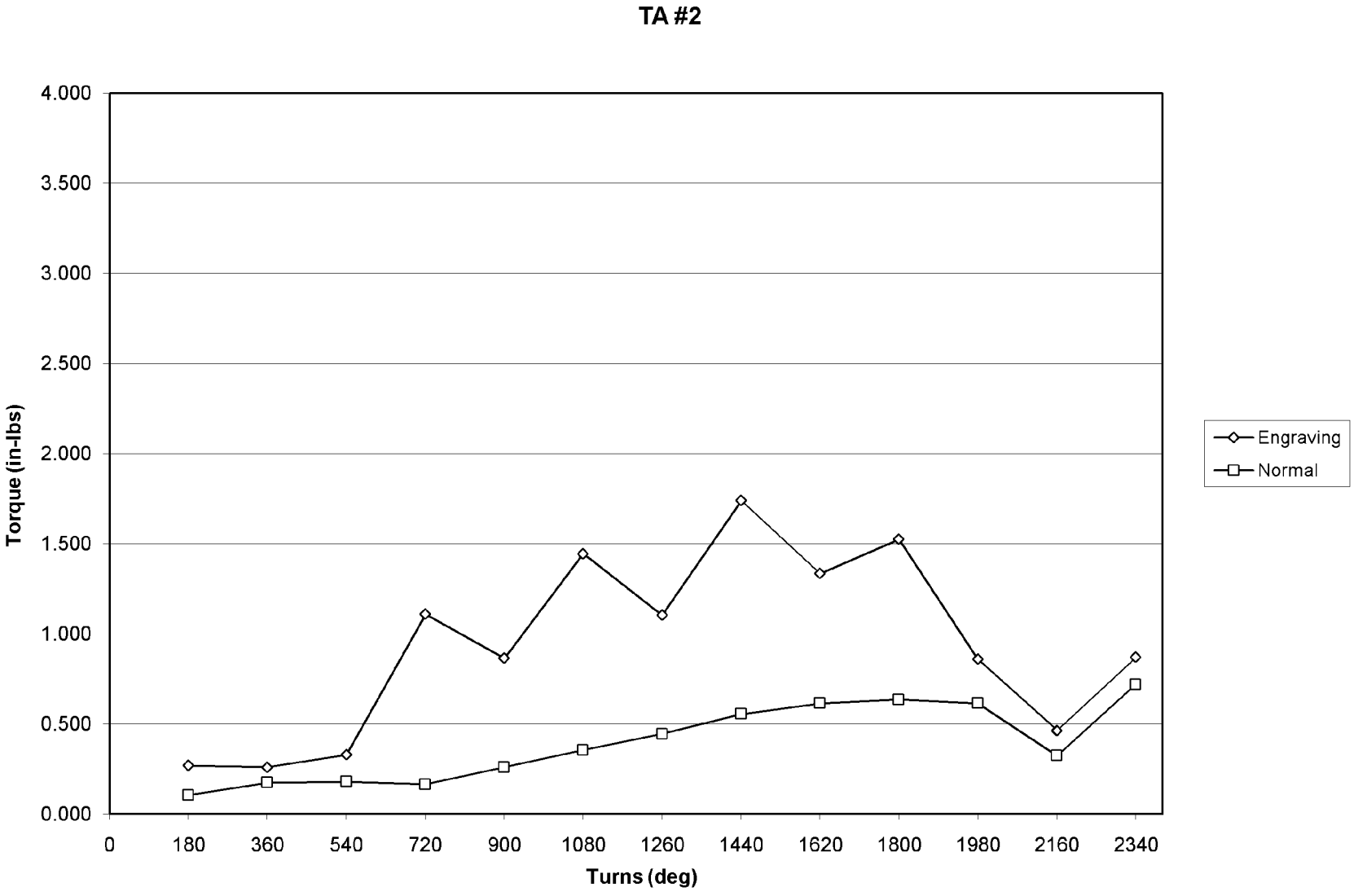

Torque vs Turns
Normal Use
Torque (in-lbs)
1.500
1.400
1.300
1.200
1.100
1.000
0.900
0.800
0.700
0.600
0.500
0.400
0.300
0.200
0.100
0.000
0
180
360
540
720
900
1080
1260
1440
1620
1800
1980
2160
2340
Turns (deg)
TA #1
TA #5
TA #7
TA #2
TA #3
TA #6
TA #4
TA #10
TA #8
TA #9

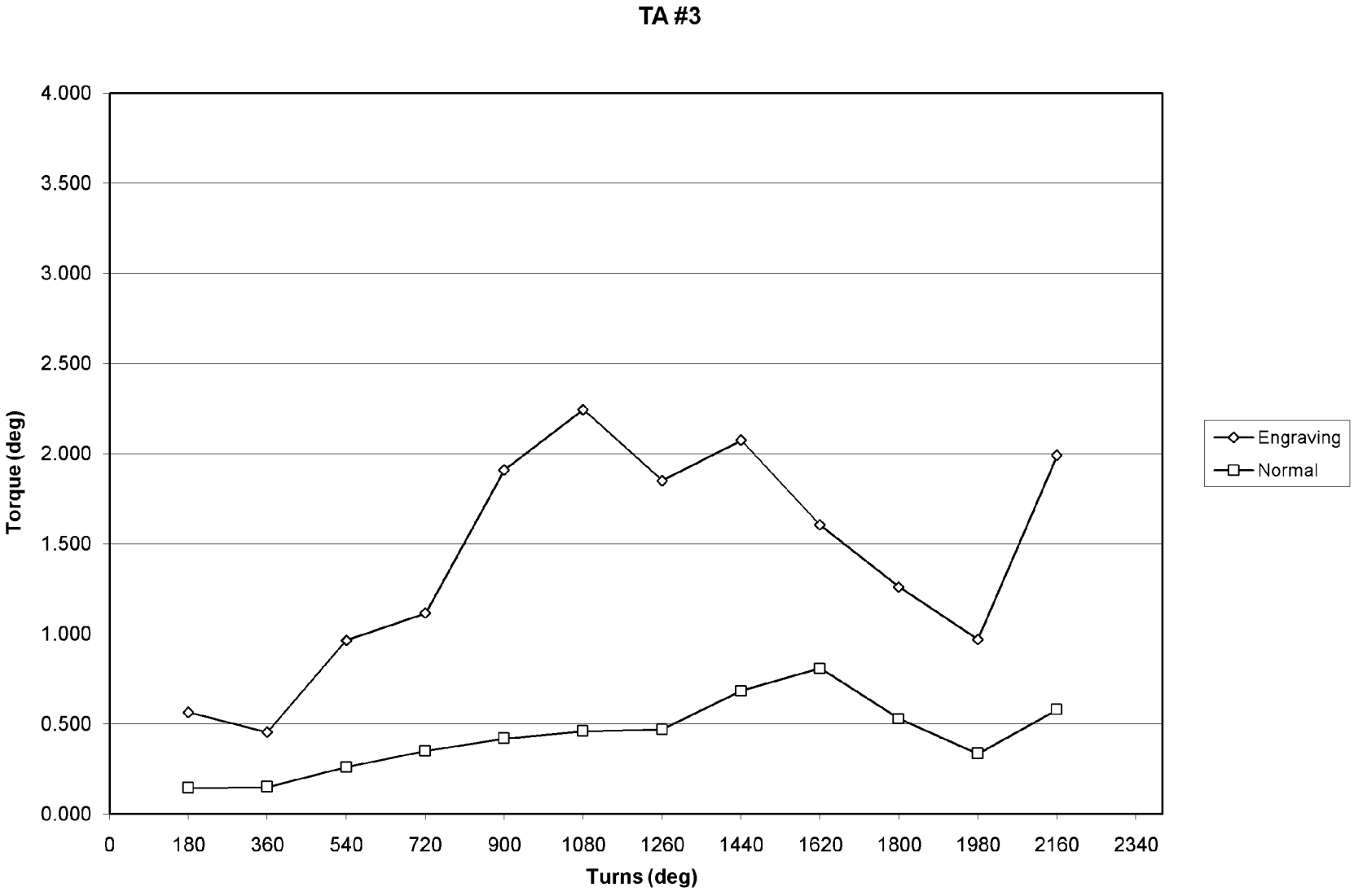

Torque vs. Turns
Initial Installation
Torque (in-lbs)
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
0
180
360
540
720
900
1080
1260
1440
1620
1800
1980
2160
2340
Turns (deg)
TA #1
TA #5
TA #7
TA #2
TA #3
TA #6
TA #4
TA #10
TA #8
TA #9

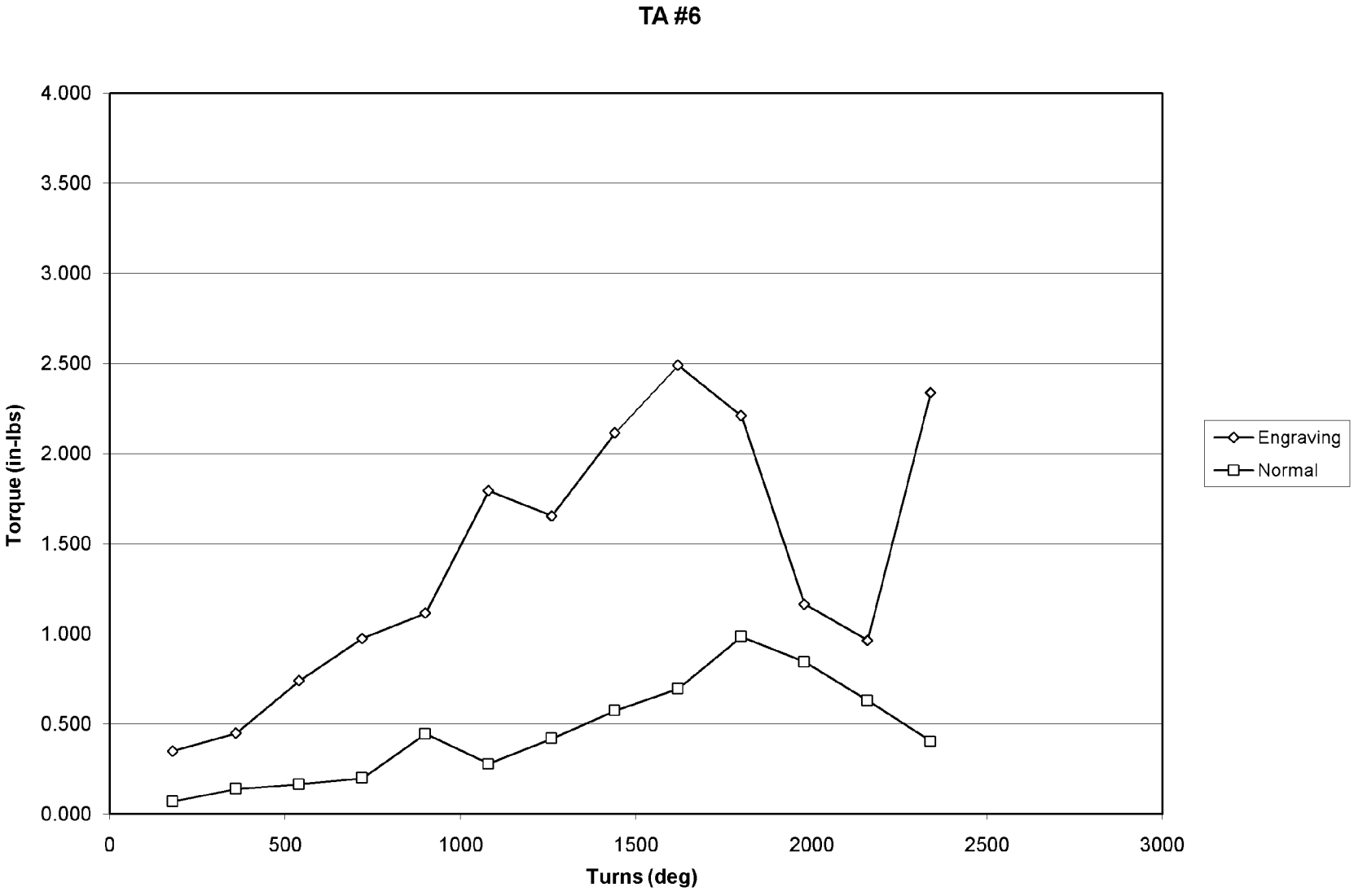

TA #1
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
Torque (in-lbs)
0
180
360
540
720
900
1080
1260
1440
1620
1800
1980
2160
2340
Turns (deg)
Engraving
Normal

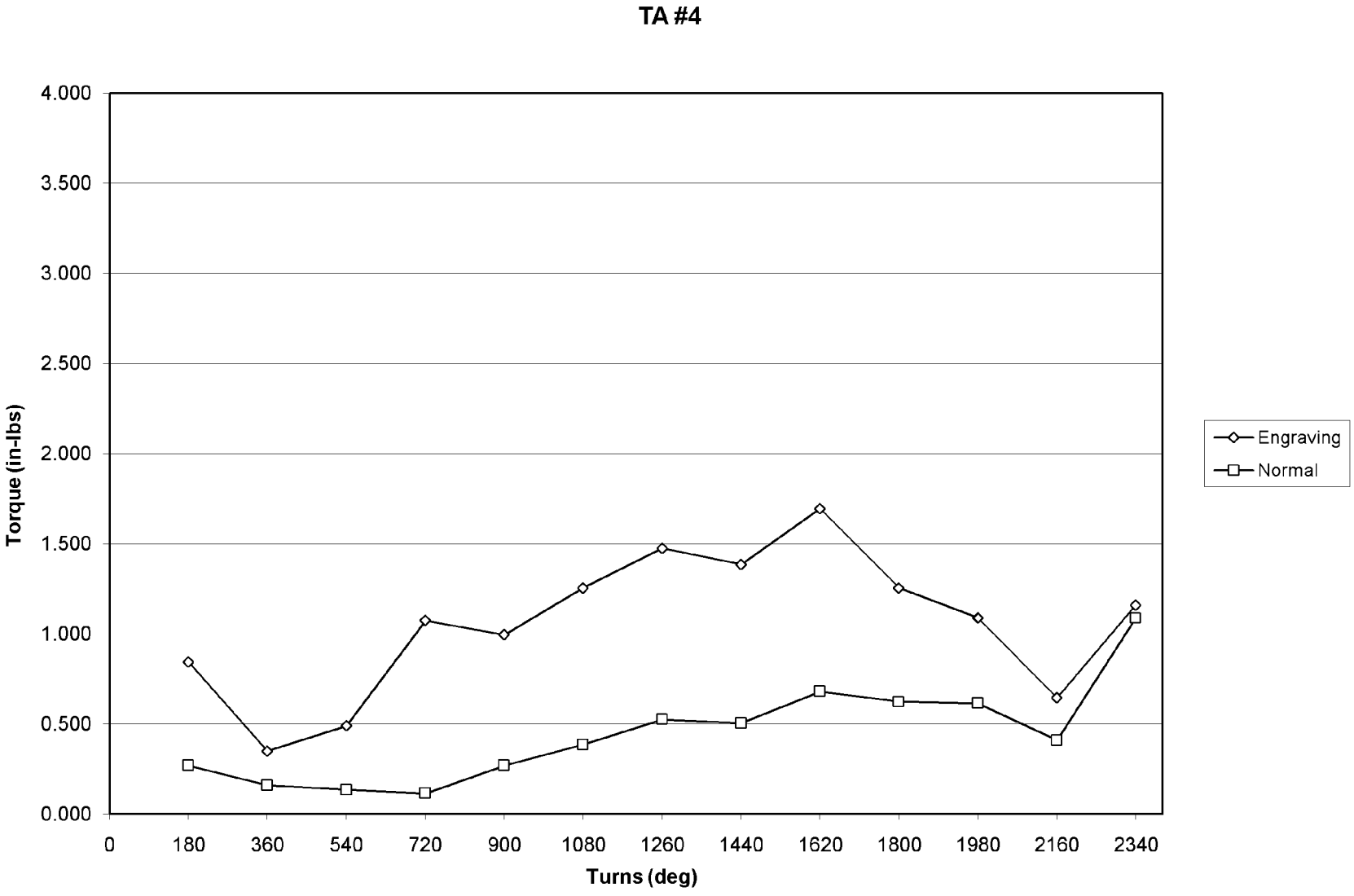

TA #5
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
Torque (in-lbs)
0
180
360
540
720
900
1080
1260
1440
1620
1800
1980
2160
2340
Turns (deg)
Engraving
Normal

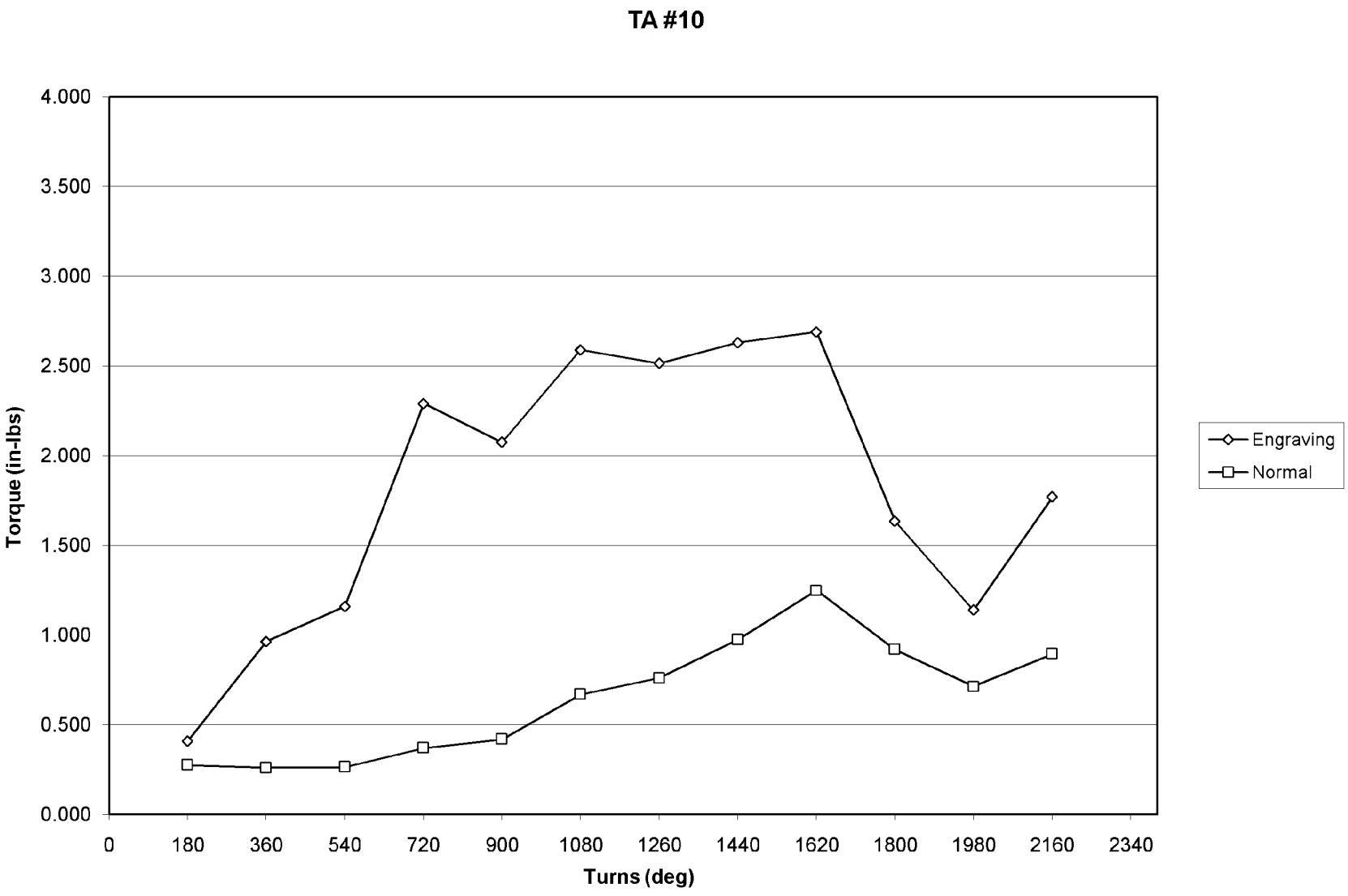

TA #7
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
Torque (in-lbs)
0
180
360
540
720
900
1080
1260
1440
1620
1800
1980
2160
2340
Turns (deg)
Engraving
Normal

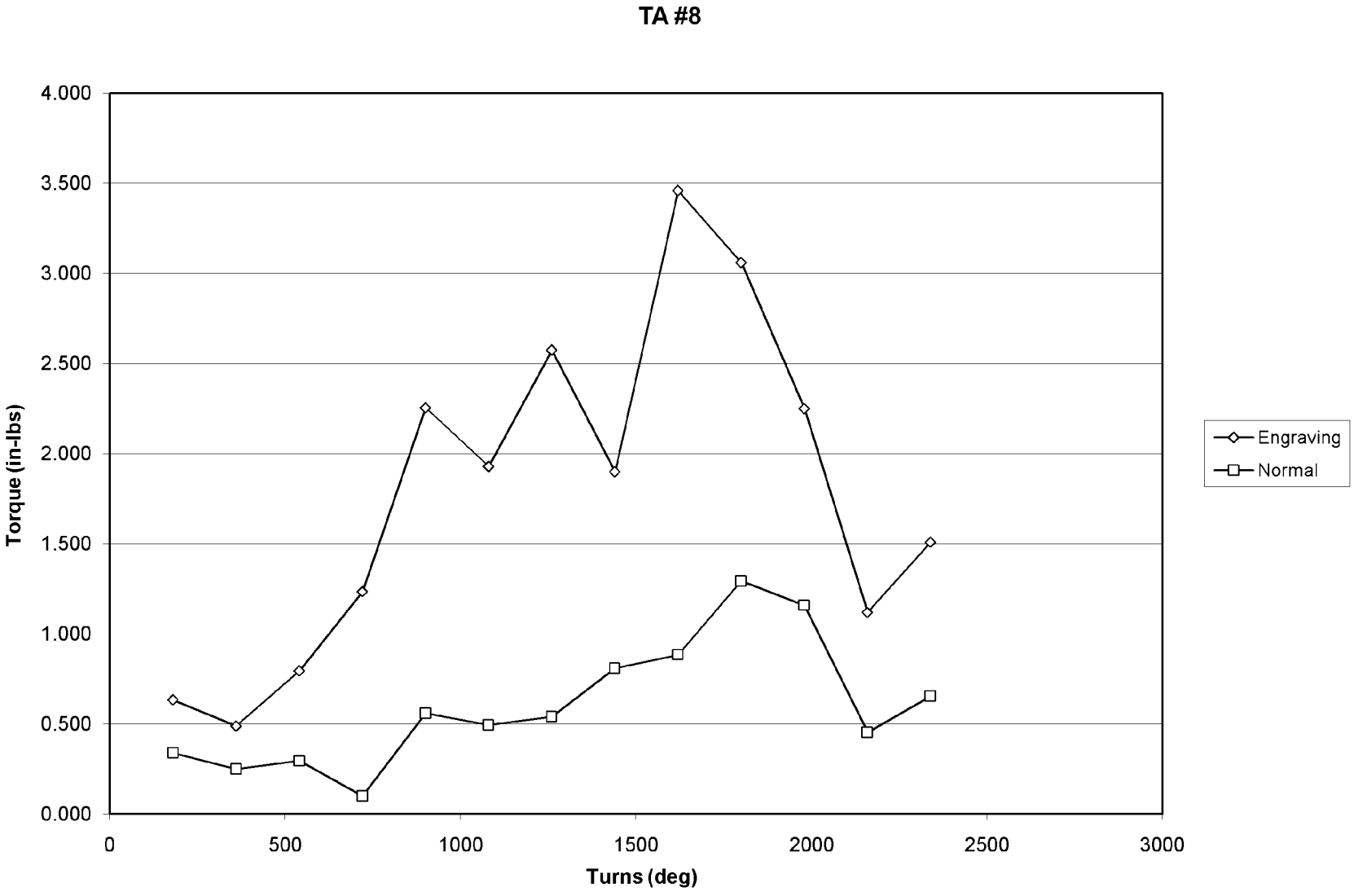

TA #2
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
Torque (in-lbs)
0
180
360
540
720
900
1080
1260
1440
1620
1800
1980
2160
2340
Turns (deg)
Engraving
Normal

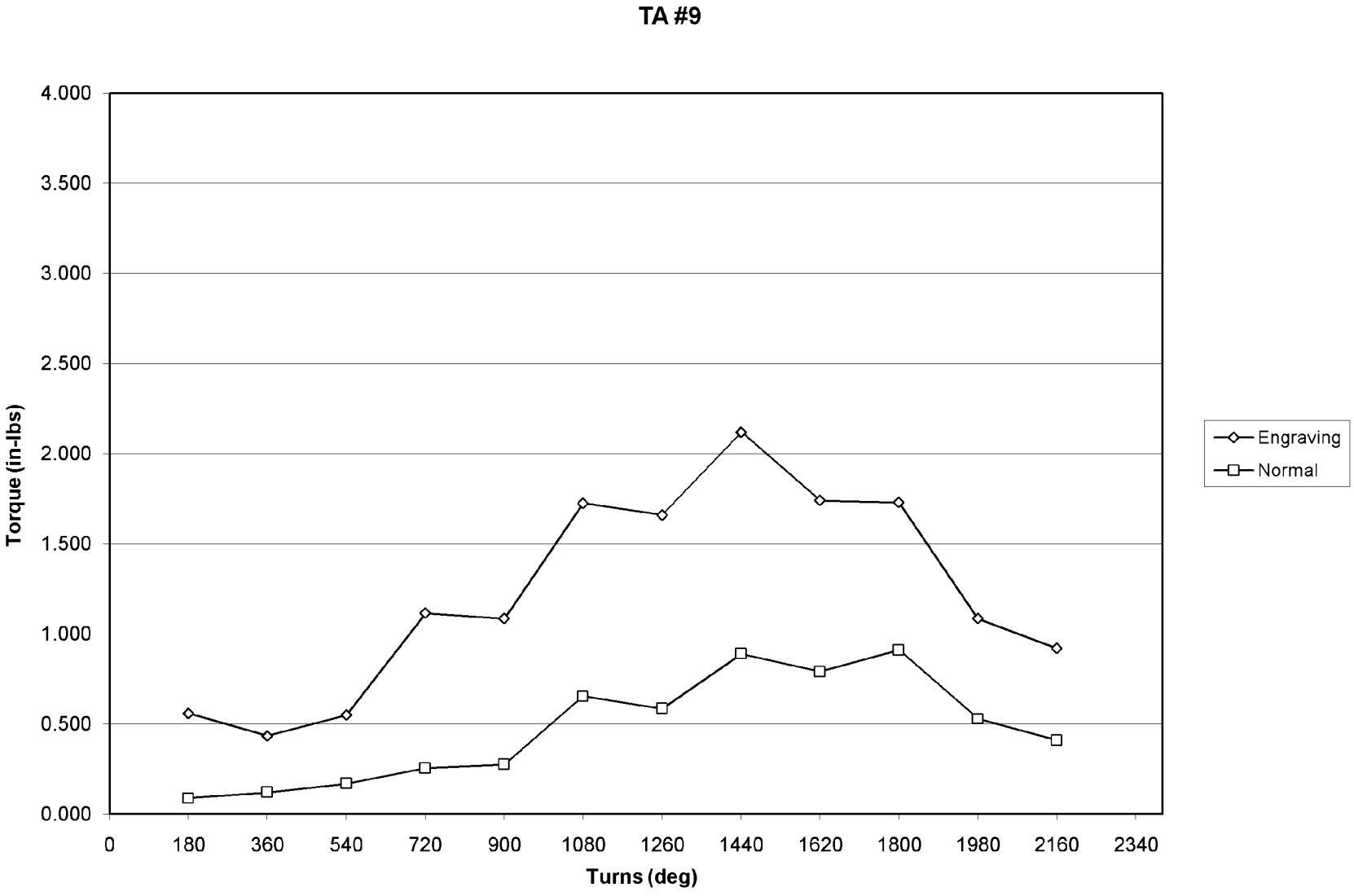

TA #3
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
Torque (deg)
0
180
360
540
720
900
1080
1260
1440
1620
1800
1980
2160
2340
Turns (deg)
Engraving
Normal


TA #6
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
Torque (in-lbs)
0
500
1000
1500
2000
2500
3000
Turns (deg)
Engraving
Normal


TA #4
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
Torque (in-lbs)
0
180
360
540
720
900
1080
1260
1440
1620
1800
1980
2160
2340
Turns (deg)
Engraving
Normal

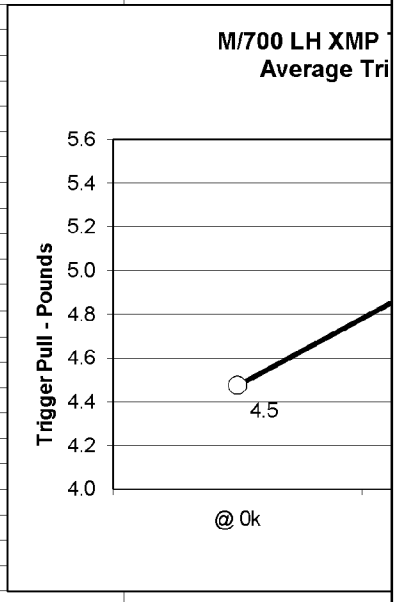

TA #10
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
Torque (in-lbs)
0
180
360
540
720
900
1080
1260
1440
1620
1800
1980
2160
2340
Turns (deg)
Engraving
Normal


TA #8
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
Torque (in-lbs)
0
500
1000
1500
2000
2500
3000
Turns (deg)
Engraving
Normal

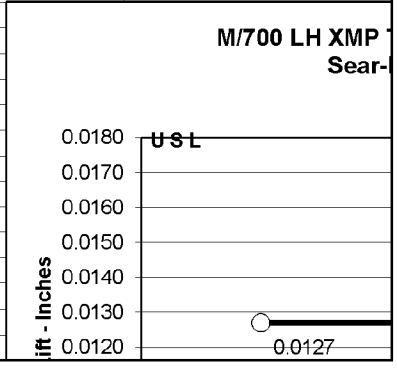

TA #9
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
Torque (in-lbs)
0
180
360
540
720
900
1080
1260
1440
1620
1800
1980
2160
2340
Turns (deg)
Engraving
Normal

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1		Fire Control 1					Fire Control 2											
2	Trigger Pull	0	5000	10000		Trigger Pull	0	5000	10000									
3	1	4.8	4.6	5.5		1	4.5	4.6	8.2									
4	2	4.9	4.3	5.7		2	4.6	5	7.7									
5	3	5.2	4.3	5.3		3	4.5	5	7.2									
6	4	5	4.6	4.8		4	4.5	4.4	5.7									
7	5	4.9	4.4	6.6		5	4.2	4.5	5.6									
8	AV	4.96	4.44	5.58		AV	4.46	4.7	6.88									
9																		
10	Sear Lift	0.012	0.012	0.012		Sear Lift	0.014	0.014	0.014									
11																		
12		Fire Control 3					Fire Control 4											
13	Trigger Pull	0	5000	10000		Trigger Pull	0	5000	10000									
14	1	4.8	6.1	6.1		1	4.6	4.9	8									
15	2	5	6.4	5.7		2	4.7	5.2	7.2									
16	3	4.6	5	5.3		3	4.3	4.6	5									
17	4	4.9	5.3	6		4	5	4.2	6.4									
18	5	4.2	5.9	6.1		5	4.5	4.9	5.8									
19	AV	4.7	5.74	5.84		AV	4.62	4.76	6.48									
20																		
21	Sear Lift	0.014	0.014	0.014		Sear Lift	0.013	0.013	0.013									
22																		
23		Fire Control 5					Fire Control 6											
24	Trigger Pull	0	5000	10000		Trigger Pull	0	5000	10000									
25	1	5.7	5.3	4.6		1	5.3	5.5	4.8									
26	2	5.1	5.6	5.2		2	5.8	5.6	4.4									
27	3	4.1	4.8	4.3		3	5.4	6	5.2									
28	4	5.2	5.1	3.8		4	5.1	5.7	4.8									
29	5	4.7	4.6	4.7		5	5.9	5.1	5.6									
30	AV	4.96	5.08	4.52		AV	5.5	5.58	4.96									
31																		
32	Sear Lift	0.013	0.013	0.013		Sear Lift	0.011	0.011	0.012									
33																		
34		Fire Control 7					Fire Control 8											
35	Trigger Pull	0	5000	10000		Trigger Pull	0	5000	10000									
36	1	4.6	6.1	5.1		1	4.5	4	5.9									
37	2	4.7	5.9	4.4		2	3.5	4.1	5.9									
38	3	4.2	5.3	4.2		3	3.5	4.6	5.6									
39	4	3.7	5.4	3.8		4	3.4	4.3	6.6									
40	5	3.9	5.3	4.4		5	3.5	4	5.8									
41	AV	4.22	5.6	4.38		AV	3.68	4.2	5.96									
42																		
43	Sear Lift	0.014	0.014	0.014		Sear Lift	0.011	0.011	0.011									
44																		
45		Fire Control 9					Fire Control 10											
46	Trigger Pull	0	5000	10000		Trigger Pull	0	5000	10000									
47	1	3.9	5.7	5.9		1	3.8	4.1	3.6									
48	2	4.1	6.1	5.2		2	3.6	4.2	4.2									

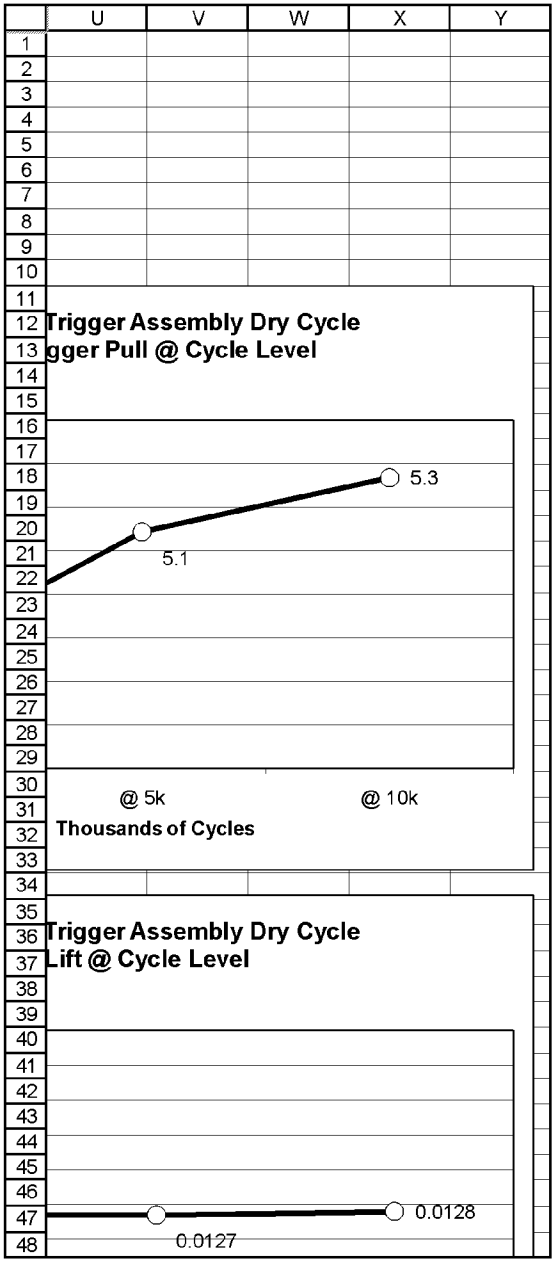
Unit	Trigger Pull @ Cycles		
	@ 0k	@ 5k	@ 10k
FC-1	5.0	4.4	5.6
FC-2	4.5	4.7	6.9
FC-3	4.7	5.7	5.8
FC-4	4.6	4.8	6.5
FC-5	5.0	5.1	4.5
FC-6	5.5	5.6	5.0
FC-7	4.2	5.6	4.4
FC-8	3.7	4.2	6.0
FC-9	3.9	5.9	5.1
FC-10	3.8	4.9	3.7
Average	4.5	5.1	5.3



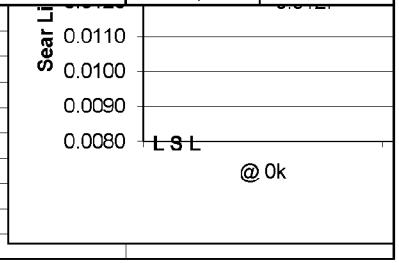
Unit	Sear Lift @ Cycles		
	@ 0k	@ 5k	@ 10k
FC-1	0.012	0.012	0.012
FC-2	0.014	0.014	0.014
FC-3	0.014	0.014	0.014
FC-4	0.013	0.013	0.013
FC-5	0.013	0.013	0.013
FC-6	0.011	0.011	0.012
FC-7	0.014	0.014	0.014
FC-8	0.011	0.011	0.011
FC-9	0.013	0.013	0.013
FC-10	0.012	0.012	0.012
Average	0.0127	0.0127	0.0128

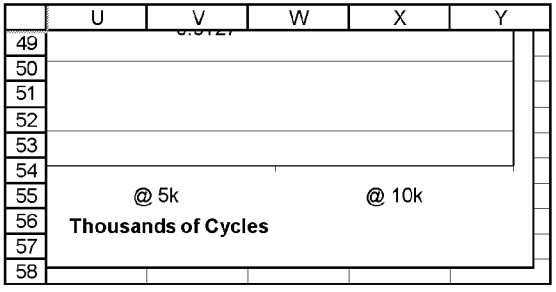


CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON


Trigger Assembly Dry Cycle
gger Pull @ Cycle Level
5.3
5.1
@ 5k
@ 10k
Thousands of Cycles
Trigger Assembly Dry Cycle
Lift @ Cycle Level
0.0128
0.0127

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
49	3	3.9	5.8	4.9		3	3.9	4.5	3.5									
50	4	3.8	6.2	4.8		4	3.6	6.5	3.5									
51	5	3.7	5.6	4.6		5	4	5.2	3.6									
52	AV	3.88	5.88	5.08		AV	3.78	4.9	3.68									
53																		
54	Sear Lift	0.013	0.013	0.013		Sear Lift	0.012	0.012	0.012									
55																		
56																		
57																		
58																		




U
V
W
X
Y
49
50
51
52
53
54
55
56
57
58
@ 5k
@ 10k
Thousands of Cycles

	Ref	Caliber	Serial #	Trigger Pull (lbs)	Safety Force (lbs) To On	Safety Force (lbs) To Off	Bolt Lift Force (lbs) Cocked	Bolt Lift Force (lbs) Fired	Head space Min + (in)
4	A-1	223 Rem	G6416876	4.8	6.9	2.5	2.5	6.2	0.001
5	A-2	223 Rem	G6416737	4.2	7.2	2.5	2.4	5.2	0.001
6	A-3	308 Win	G6419182	5.2	7.3	2.8	2.1	5.4	0.003
7	A-4	308 Win	G6416473	4.6	6.8	2.6	2.5	5.1	0.004
8	A-5	270 Win	G6518019	6.5	8.0	2.6	2.8	6.0	0.002
9	A-6	223 Rem	G6416849	4.5	6.6	2.6	3.1	6.1	0.002
10	A-7	308 Win	G6416500	4.4	6.8	2.7	2.8	5.9	0.003
11	A-8	223 Rem	G6417517	5.3	6.1	2.5	2.2	4.9	0.003
12	A-9	308 Win	G6417873	4.8	7.0	2.7	2.3	6.2	0.003
13	A-10	223 Rem	G6416863	4.2	7.1	2.5	2.7	6.1	0.002
14	A-11	308 Win	G6417216	4.5	7.1	2.4	2.6	5.5	0.003
15	A-12	270 Win	G6517529	4.8	9.0	3.0	3.4	6.6	0.014
16	A-13	270 Win	G6517431	4.9	7.7	2.6	2.5	7.2	0.001
17	A-14	223 Rem	G6417484	4.8	7.0	2.5	3.3	6.0	0.003
18	A-15	270 Win	G6517963	4.1	6.9	2.5	3.2	6.4	0.001
19	A-16	308 Win	G6416276	4.7	6.0	2.6	2.9	5.5	0.003
20	A-17	270 Win	G6518109	4.1	7.6	2.6	3.0	6.7	0.002
21	A-18	308 Win	G6419156	4.3	7.2	2.5	2.0	5.2	0.004
22	A-19	270 Win	G6517453	3.7	8.0	2.5	2.4	6.4	0.002
23	A-20	223 Rem	G6417487	4.7	6.9	2.7	2.2	5.7	0.002
24	A-21	270 Win	G6517949	4.7	8.8	3.0	3.1	7.4	0.002
25	A-22	223 Rem	G6416329	4.3	7.8	2.7	2.5	6.1	0.001
26	A-23	223 Rem	G6416058	4.6	7.0	2.4	2.3	6.1	0.001
27	A-24	223 Rem	G6416028	4.3	7.7	2.8	2.3	5.9	0.003
28	A-25	308 Win	G6417178	4.2	6.9	2.4	2.3	5.3	0.001
29	A-26	308 Win	G6416395	4.5	7.6	2.5	2.8	5.5	0.003
30	A-27	308 Win	G6419125	4.5	7.2	2.6	2.8	5.2	0.003
31	A-28	270 Win	G6518501	5.3	7.3	2.5	4.5	6.8	0.002
32	A-29	270 Win	G6518511	4.5	7.3	2.6	3.0	6.7	0.002
33	A-30	270 Win	G6517438	4.1	7.0	2.4	3.3	6.6	0.003
34			**Average**	**4.6**	**7.3**	**2.6**	**2.7**	**6.0**	**0.003**

Function Measurements

			500 rds			1000 rds		
	Caliber	Serial #	Trigger Pull (lbs)	Sear Lift (in)	Head space Min + (in)	Trigger Pull (lbs)	Sear Lift (in)	Head space Min + (in)
A-1	223 Rem	G6416876	5.4	0.013	0.002	◆	◆	◆
A-2	223 Rem	G6416737	5.2	0.013	0.002	◆	◆	◆
A-3	308 Win	G6419182	5.5	0.014	0.003	◆	◆	◆
A-4	308 Win	G6416473	4.4	0.014	0.004	◆	◆	◆
A-5	270 Win	G6518019	7.5	0.013	0.003	◆	◆	◆
A-6	223 Rem	G6416849	◆	◆	◆	5.1	0.012	0.003
A-7	308 Win	G6416500	◆	◆	◆	5.1	0.013	0.003

	K	L	M	N	O	P
1						
2		Firing Pin				
3	Sear Lift (in)	Indent (in)				
4	0.012	0.0212				
5	0.013	0.0212				
6	0.041	0.0200				
7	0.013	0.0200				
8	0.014	0.0240				
9	0.012	0.0215				
10	0.013	0.0195				
11	0.011	0.0212				
12	0.013	0.0202				
13	0.012	0.0217				
14	0.012	0.0200				
15	0.014	0.0230				
16	0.013	0.0222				
17	0.013	0.0210				
18	0.012	0.0227				
19	0.011	0.0205				
20	0.013	0.0238				
21	0.014	0.0197				
22	0.012	0.0253				
23	0.012	0.0217				
24	0.014	0.0233				
25	0.014	0.0212				
26	0.012	0.0213				
27	0.014	0.0218				
28	0.013	0.0205				
29	0.013	0.0200				
30	0.013	0.0202				
31	0.013	0.0240				
32	0.014	0.0235				
33	0.012	0.0245				
34	**0.0137**	**0.0217**				
35						
36						
37	**2000 rds**			**3000 rds**		
38						
39	**Trigger Pull (lbs)**	**Sear Lift (in)**	**Head space Min + (in)**	**Trigger Pull (lbs)**	**Sear Lift (in)**	**Head space Min + (in)**
40	◆	◆	◆	◆	◆	◆
41	◆	◆	◆	◆	◆	◆
42	◆	◆	◆	◆	◆	◆
43	◆	◆	◆	◆	◆	◆
44	◆	◆	◆	◆	◆	◆
45	◆	◆	◆	◆	◆	◆
46	◆	◆	◆	◆	◆	◆

	A	B	C	D	E	F	G	H	I	J
47		A-8	223 Rem	G6417517	◆	◆	◆	5.3	0.012	0.003
48		A-9	308 Win	G6417873	◆	◆	◆			
49		A-10	223 Rem	G6416863	◆	◆	◆	4.7	0.013	0.003
50		A-11	308 Win	G6417216	◆	◆	◆			
51		A-12	270 Win	G6517529	◆	◆	◆	5.3	0.014	0.003
52		A-13	270 Win	G6517431	◆	◆	◆	5.3	0.013	0.002
53		A-14	223 Rem	G6417484	◆	◆	◆	5.2	0.012	0.004
54		A-15	270 Win	G6517963	◆	◆	◆	5.0	0.012	0.002
55		A-16	308 Win	G6416276	◆	◆	◆	4.7	0.01	0.004
56		A-17	270 Win	G6518109	3.8	0.012	0.002	◆	◆	◆
57		A-18	308 Win	G6419156	5.0	0.012	0.004	◆	◆	◆
58		A-19	270 Win	G6517453	4.1	0.012	0.002	◆	◆	◆
59		A-20	223 Rem	G6417487	5.7	0.012	0.003	◆	◆	◆
60		A-21	270 Win	G6517949	5.1	0.015	0.003	◆	◆	◆

	K	L	M	N	O	P
47	4.9	0.012	0.003	◆	◆	◆
48				◆	◆	◆
49	4.3	0.012	0.003	4.3	0.012	0.003
50						
51	5.9	0.014	0.003	5.6	0.014	0.004
52	6.2	0.013	0.002	◆	◆	◆
53	5.7	0.013	0.004	◆	◆	◆
54	◆	◆	◆	◆	◆	◆
55	◆	◆	◆	◆	◆	◆
56	◆	◆	◆	◆	◆	◆
57	◆	◆	◆	◆	◆	◆
58	◆	◆	◆	◆	◆	◆
59	◆	◆	◆	◆	◆	◆
60	◆	◆	◆	◆	◆	◆

	A	B	C	D	E	F	G	H
1								
2		**Slam**						
3		**Firearm #**	**Serial #**	**Protrusion**	**Safety in Safe Position**	**Safety in Fire Position**	**Firing Pin Indent**	**40 # Trigger Pull**
4		A22	G6416329	0.0545	OK	OK	0.021	
5		A23	G6416058	0.0510	OK	OK	0.022	
6		A24	G6416028	0.0520	OK	OK	0.0220	OK
7		A25	G6417178	0.0495	OK	OK	0.020	
8		A26	G6416395	0.0530	OK	OK	0.0190	
9		A27	G6419125	0.0545	OK	OK	0.020	OK
10		A28	G6518501	0.0520	OK	OK	0.021	
11		A29	G6518511	0.0325	OK	OK	0.025	
12		A30	G6517438	0.0495	OK	OK	0.023	OK
13								
14		**Procedure:** Slam and cam the bolt 5 times in the fire and safe positions,						
15		recording any malfunctions.						

JAR OFF TEST (See S.A.A.M.I. volume VII, centerfire rifle, section 7-95.04)

12 inch drop measured from the lowest point of the firearm. Firearm in the **SAFE OFF** position.

Fire Arm	Serial #	BV, MU	BV, MD	BH, BD	BH, BU	BH, RSU	BH, LSU
A22	G6416329	OK	OK	OK	OK	OK	OK
A23	G6416058	OK	OK	OK	OK	OK	OK
A24	G6416028	OK	OK	OK	OK	OK	OK
A25	G6417178	OK	OK	OK	OK	OK	OK
A26	G6416395	OK	OK	OK	OK	OK	OK
A27	G6419125	OK	OK	OK	OK	OK	OK
A28	G6518501	OK	OK	OK	OK	OK	OK
A29	G6518511	OK	OK	OK	OK	OK	OK
A30	G6517438	OK	OK	OK	OK	OK	OK

DROP TEST (see S.A.A.M.I. volume VII, centerfire rifle, section 7-95.02)

48 inch drop measured from the center of gravity of the firearm. Firearm in the **SAFE ON** position.

Fire Arm	Serial #	BV, MU	BV, MD	BH, BD	BH, BU	BH, RSU	BH, LSU
A22	G6416329	OK	OK	OK	OK	OK	OK
A23	G6416058	OK	OK	OK	OK	OK	OK
A24	G6416028	OK	OK	OK	OK	OK **(FPO)**	OK
A25	G6417178	OK	OK	OK	OK	OK	OK
A26	G6416395	OK	OK	OK	OK	OK **(FPO)**	OK
A27	G6419125	OK	OK	OK **(FPO)**	OK	OK	OK
A28	G6518501	OK	OK	OK	OK	OK	OK
A29	G6518511	OK	OK	OK	OK	OK	OK
A30	G6517438	OK	OK	OK	OK	OK	OK

FPO- Floor Plate Opens

ROTATION TEST (see S.A.A.M.I. volume VII, centerfire rifle, section 7-95.03)

With the butt on the mat, let the firearm fall to the right & left. Firearm in the **SAFE ON** position.

		LEFT SIDE UP		RIGHT SIDE UP
A22	G6416329	OK		OK
A23	G6416058	OK		OK
A24	G6416028	OK		OK
A25	G6417178	OK		OK
A26	G6416395	OK		OK
A27	G6419125	OK		OK
A28	G6518501	OK		OK
A29	G6518511	OK		OK
A30	G6517438	OK		OK

DROP ORDER	FIREARM ATTITUDES
1	BARREL VERTICAL, MUZZLE UP
2	BARREL VERTICAL, MUZZLE DOWN
3	BARREL HORIZONTAL, BOTTOM

BH	Barrel Horizontal
BV	Barrel Vertical
MU	Muzzle Up
MD	Muzzle Down
BD	Bottom Down

	A	B	C	D	E	F	G	H	I
48		4	BARREL HORIZONTAL, BOTTOM UP				BU	Bottom Up	
49		5	BARREL HORIZONTAL, RIGHT SIDE UP				LSU	Left Side Up	
50		6	BARREL HORIZONTAL, LEFT SIDE UP				RSU	Right Side Up	

	A	B	C	D	E	F
1	SORTED BY SERIAL NUMBER					
2					# of	
3	**Serial #**	**Tester**	**Rounds**	**Ammo**	**Malf.**	**Malfunction**
4	G6518019	Barnes	500	R270W3	1	Stems Bottom Chamber
5				**Total**	**1**	
6						
7	G6517529	Barnes	3000	R270W1	2	Extractor Drops Shell
8	G6517529	Barnes	3000	SBST270	1	Extractor Drops Shell
9	G6517529	Barnes	3000	P270C	1	Extractor Drops Shell
10	G6517529	Barnes	3000	R270W4	1	Extractor Drops Shell
11	G6517529	Farrington	3000	R270W4	2	Extractor Drops Shell
12	G6517529	Farrington	3000	R270W1	2	Extractor Drops Shell
13	G6517529	Farrington	3000	X2703	2	Extractor Drops Shell
14				**Total**	**11**	
15						
16	G6517963	Barnes	1000	PRA270WA	1	Stems Bottom Chamber
17				**Total**	**1**	
18						
19	G6517949	Morris	500	R270W1	1	Fails to Fire
20	G6517949	Morris	500	R270W1	3	Floor Plate Opens
21				**Total**	**4**	
22						
23	G6416849	Barnes	1000	XM193	5	Jumps Magazine
24	G6416849	Barnes	1000	SBST	1	Jumps Magazine
25	G6416849	Barnes	1000	GM223M	3	Jumps Magazine
26	G6416849	Barnes	1000	L223R7	2	Jumps Magazine
27	G6416849	Barnes	1000	R223R6	6	Jumps Magazine
28	G6416849	Barnes	1000	X223R	2	Jumps Magazine
29				**Total**	**19**	
30						
31	G6417487	Stephens	500	R223R1	3	Bolt OverRide
32				L223R7	3	Bolt OverRide
33				**Total**	**6**	
34						
35	G6417517	Stephens	2000	R223R1	3	Doesn't Eject
36	G6417517	Stephens	2000	R223R6	2	Doesn't Eject
37	G6417517	Stephens	2000	R223R7	1	Doesn't Eject
38				**Total**	**6**	
39						
40	G6416863	Barnes	3000	SBST223	26	Jumps Magazine
41	G6416863	Barnes	3000	XM193	2	Jumps Magazine
42	G6416863	Barnes	3000	L223R7	3	Jumps Magazine
43	G6416863	Barnes	3000	L223R7	1	Stems Magazine
44	G6416863	Barnes	3000	R223R6	2	Jumps Magazine
45	G6416863	Barnes	3000	R223R6	1	Stems Magazine

	A	B	C	D	E	F
46	G6416863	Barnes	3000	R223R1	2	Stems Magazine
47	G6416863	Barnes	3000	SBST223	1	Jumps Magazine
48	G6416863	Barnes	3000	X223R	6	Stems Magazine
49	G6416863	Barnes	3000	X223R	2	Jumps Magazine
50	G6416863	Barnes	3000	X223R	3	Stem OverRide
51	G6416863	Barnes	3000	XM193	1	Stem OverRide
52	G6416863	Barnes	3000	GM223M	2	Stems Magazine
53	G6416863	Barnes	3000	GM223M	2	Jumps Magazine
54	G6416863	Barnes	3000	L223R7	2	Jumps Magazine
55	G6416863	Barnes	3000	XM193	1	Jumps Magazine
56	G6416863	Barnes	3000	L223R7	5	Jumps Magazine
57	G6416863	Barnes	3000	R223R6	1	Jumps Magazine
58	G6416863	Barnes	3000	R223R1	3	Jumps Magazine
59	G6416863	Barnes	3000	R223R6	6	Stems Magazine
60	G6416863	Barnes	3000	R223R6	9	Jumps Magazine
61	G6416863	Paestella	3000	R223R6	1	Stems Right Chamber
62	G6416863	Paestella	3000	R223R6	1	Jumps Magazine
63	G6416863	Farrington	3000	P223E	3	Jumps Magazine
64	G6416863	Farrington	3000	PRA223RB	2	Jumps Magazine
65				**Total**	**88**	
66						
67	G6417517	Stephens	2000	R223R1	3	Doesn't Eject
68	G6417517	Stephens	2000	R223R6	2	Doesn't Eject
69	G6417517	Stephens	2000	R223R7	1	Doesn't Eject
70				**Total**	**6**	
71						
72						
73						
74						
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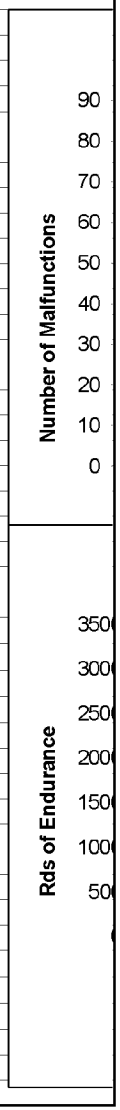
132						
133						
134						
135	Ammo					

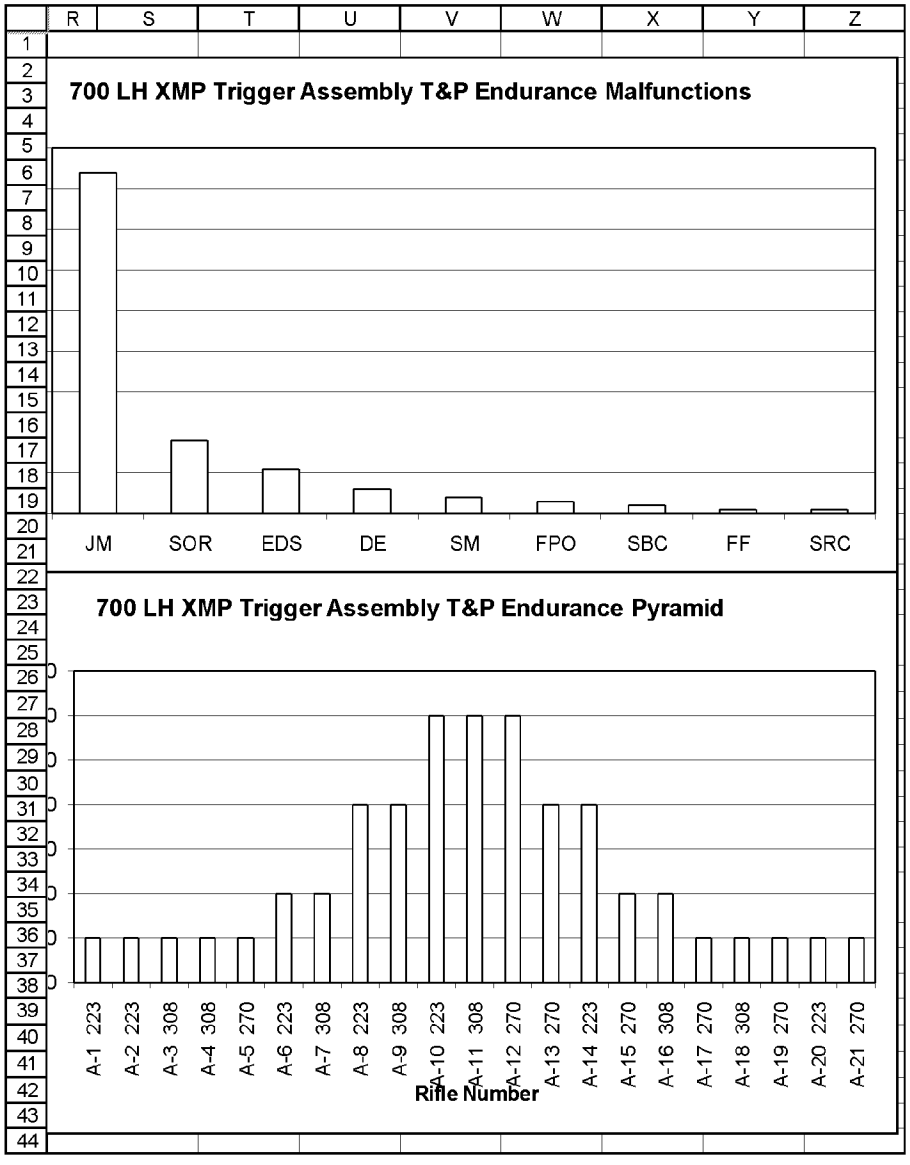
JACK FUNCTION & ENDURANCE TEST SUMMARY
MALFUNCTIONS SORTED BY SERIAL NUMBER

	Serial #	# of Malf	# of Rds. Fired	Malf. Rate	Malfunction JM	SOR	EDS	DE	SM	FPO	SBC	FF	SRC	SLC
A-1 223	G6416876	**0**	**500**	**0.0%**										
A-2 223	G6416737	**0**	**500**	**0.0%**										
A-3 308	G6419182	**0**	**500**	**0.0%**										
A-4 308	G6416473	**0**	**500**	**0.0%**										
A-5 270	G6518019	**1**	**500**	**0.2%**							1			
A-6 223	G6416849	**19**	**1000**	**1.9%**	19									
A-7 308	G6416500	**0**	**1000**	**0.0%**										
A-8 223	G6417517	**6**	**2000**	**0.3%**				6						
A-9 308	G6417873	**0**	**2000**	**0.0%**										
A-10 223	G6416863	**88**	**3000**	**2.9%**	65	18			4				1	
A-11 308	G6417216	**0**	**3000**	**0.0%**										
A-12 270	G6517529	**11**	**3000**	**0.4%**			11							
A-13 270	G6517431	**0**	**2000**	**0.0%**										
A-14 223	G6417484	**0**	**2000**	**0.0%**										
A-15 270	G6517963	**1**	**1000**	**0.1%**							1			
A-16 308	G6416276	**0**	**1000**	**0.0%**										
A-17 270	G6518109	**0**	**500**	**0.0%**										
A-18 308	G6419156	**0**	**500**	**0.0%**										
A-19 270	G6517453	**0**	**500**	**0.0%**										
A-20 223	G6417487	**0**	**500**	**0.0%**										
A-21 270	G6517949	**3**	**500**	**0.6%**						3		1		
TOTALS		**129**	**26000**	**0.5%**	**84**	**18**	**11**	**6**	**4**	**3**	**2**	**1**	**1**	**0**



Key to Malfunctions	
DE	Doesn't Eject
EDS	Ejector Drops Shell
FF	Fails to Fire
FPO	Floor Plate Opens
JM	Jumps Magazine
SBC	Stems Bottom Chamber
SLC	Stems Left Chamber
SOR	Stem Over Ride
SM	Stems Magazine
STC	Stems Top Chamber

Ammunition- 270 Win		
R270W1	Remington	100 gr Pointed Soft Point
R270W2	Remington	130 gr Core- Lokt Pointed Soft Pont
R270W3	Remington	130 gr Bronze Point


700 LH XMP Trigger Assembly T&P Endurance Malfunctions
JM
SOR
EDS
DE
SM
FPO
SBC
FF
SRC
700 LH XMP Trigger Assembly T&P Endurance Pyramid
A-1 223
A-2 223
A-3 308
A-4 308
A-5 270
A-6 223
A-7 308
A-8 223
A-9 308
A-10 223
A-11 308
A-12 270
A-13 270
A-14 223
A-15 270
A-16 308
A-17 270
A-18 308
A-19 270
A-20 223
A-21 270
Rifle Number

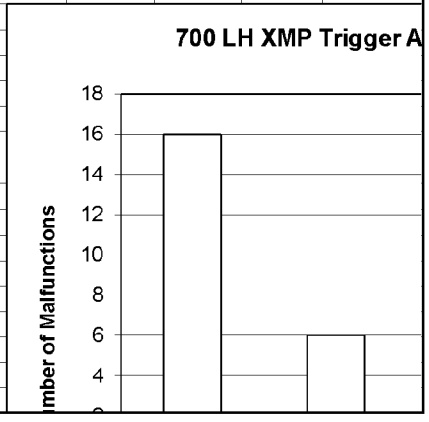
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
45		R270W4		Remington		150 gr Core- Lokt Soft Pont											
46		PRA270WA		Remington		130 gr Accu Tip Boat Tail											
47		PRC270WB		Remington		140 gr Core-Lokt Ultra Bonded PSP											
48		RS270WA		Remington		140 gr A- Frame PSP											
49		PRSC270WA		Remington		130 gr Swift Scirocco Bonded											
50		P270F		Federal		130 gr Nosler Ballistic Tip											
51		P270C		Federal		150 gr Sierra Gameking Boat Tail SP											
52		P270T2		Federal		130 gr Trophy Bonded Bear Claw											
53		X2703		Winchester		130 gr Super- X Silvertip											
54		X2704		Winchester		150 gr Super- X Power Point											
55		SBST270		Winchester		130 gr Supreme Ballistic Silvertip											
56																	
57		**Ammunition- 223 Rem**															
58		R223R1		Remington		55 gr Pointed Soft Point											
59		R223R3		Remington		55 gr Metal Case											
60		R223R6		Remington		62 gr Hollow Point (Match)											
61		L223R7		Remington		45 gr Jacketed Hollow Point											
62		PRA223RB		Remington		50 gr Accutip- V Boat Tail											
63		PRA223RC		Remington		55 gr Accutip- V Boat Tail											
64		P223F		Federal		55 gr Nosler Ballistic Tip											
65		P223E		Federal		55 gr Sierra GameKing BoatTail HP											
66		GM223M		Federal		69 gr Sierra MatchKing BoatTail HP											
67		XM193		Federal		55 gr Metal Case Boat Tail											
68		SBST223		Winchester		50 gr Ballistic Silvertip											
69		X223R		Winchester		55 gr Pointed Soft Point											
70																	
71		**Ammunition- 308 Win**															
72		R308W1		Remington		150 gr Core- Lokt Pointed Soft Pont											
73		PRC308WC		Remington		180 gr Core-Lokt Ultra											
74		R308W2		Remington		180 gr Core-Lokt Soft Point											
75		PRC308WA		Remington		150 gr Core-Lokt Ultra											
76		PRP308WB		Remington		180 gr Nosler Partition											
77		PRA308WB		Remington		165 gr Accutip Boat Tail											
78		RM308W7		Federal		180 gr Match King Boat Tail HP											
79		P308C		Federal		165 gr Sierra Game King Boat Tail SP											
80		P308F		Federal		150 gr Nosler Ballistic Tip											
81		P308E		Federal		180 gr Nosler Partition											
82		GM308M		Federal		168 gr Sierra Match King BTHP											
83		SBST308		Winchester		150 gr Ballistic Silvertip											
84		X3086		Winchester		180 gr Power Point											
85		SBST308A		Winchester		168 gr Ballistic Silvertip											

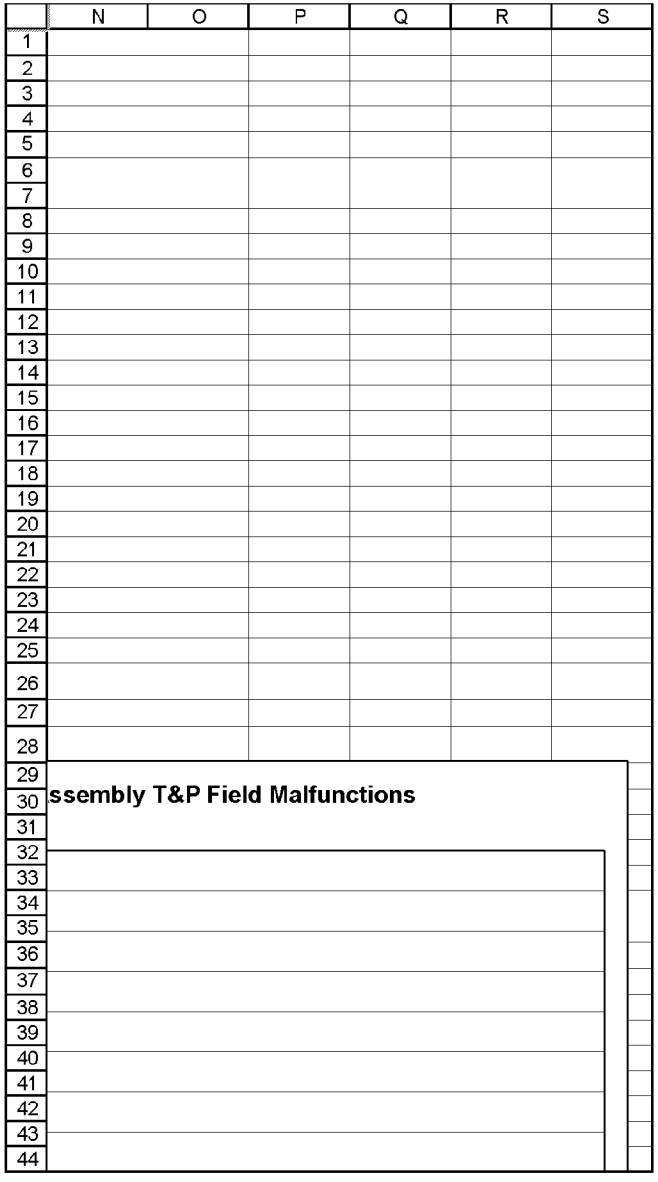
	A	B	C	D	E	F
1	SORTED BY SERIAL NUMBER					
2					# of	
3	**Serial #**	**Tester**	**Rounds**	**Ammo**	**Malf.**	**Malfunction**
4	G6517949	Stephens	10	PRA270WA	2	Floor Plate Opens
5	G6517949	Stephens	10	PRSC270WA	2	Floor Plate Opens
6	G6517949	Barnes	10	P270F	2	Floor Plate Opens
7	G6517949	Joy	10	PRC270WB	1	Floor Plate Opens
8	G6517949	Farrington	10	R270W3	2	Floor Plate Opens
9	G6517949	Paestella	10	RS270WA	3	Floor Plate Opens
10	G6517949	Maloy	10	R270W4	1	Floor Plate Opens
11	G6517949	Morris	10	P270T1	3	Floor Plate Opens
12				**Total**	**16**	
13						
14	G6518019	Joy	10	SBST270	1	Bolt Pulls Out
15				**Total**	**1**	
16						
17	G6416876	Morris	10	L223R7	1	Shell Stems Magazine
18				**Total**	**1**	
19						
20	G6419182	Farrington	10	R308W2	1	Stems Right Chamber
21				**Total**	**1**	
22						
23	G6416473	Kucharski	10	R308W2	3	Stems Top Chamber
24				**Total**	3	
25						
26	G6416849	Farrington	10	P223E	1	Stems Top Chamber
27				**Total**	**1**	
28						
29	G6417517	Becker	10	R223R3	1	Stems Top Chamber
30	G6417517	Farrington	10	L223R7	1	Stems Top Chamber
31				**Total**	**2**	
32						
33	G6416863	Morris	10	SBST223	1	Stem OverRide
34				**Total**	**1**	

1													
2		FUNCTION TEST SUMMARY											
3		MALFUNCTIONS SORTED BY SERIAL NUMBER											
4				# of	# of	Malf.	Malfunction						
5			Serial #	Malf	Rds. Fired	Rate	FPO	STC	BPO	SOR	SRC	SM	
6		A-1 223	G6416876	1	120	0.8%						1	
7		A-2 223	G6416737	0	120	0.0%							
8		A-3 308	G6419182	4	140	2.9%		3			1		
9		A-4 308	G6416473	0	140	0.0%							
10		A-5 270	G6518019	0	140	0.0%							
11		A-6 223	G6416849	1	120	0.8%		1					
12		A-7 308	G6416500	0	140	0.0%							
13		A-8 223	G6417517	2	120	1.7%		2					
14		A-9 308	G6417873	0	140	0.0%							
15		A-10 223	G6416863	1	120	0.8%				1			
16		A-11 308	G6417216	0	140	0.0%							
17		A-12 270	G6517529	0	140	0.0%							
18		A-13 270	G6517431	0	140	0.0%							
19		A-14 223	G6417484	0	120	0.0%							
20		A-15 270	G6517963	0	140	0.0%							
21		A-16 308	G6416276	0	140	0.0%							
22		A-17 270	G6518109	1	140	0.7%			1				
23		A-18 308	G6419156	0	140	0.0%							
24		A-19 270	G6517453	0	140	0.0%							
25		A-20 223	G6417487	0	120	0.0%							
26		A-21 270	G6517949	16	140	11.4%	16						
27			TOTALS	26	2800	0.9%	16	6	1	1	1	1	
28													

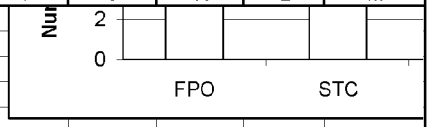
	Key to Malfunctions	
29		
30	BPO	Bolt Pulls Out
31	FPO	Floor Plate Opens
32	SM	Stems Magazine
33	SOR	Stem Over Ride
34	SRC	Stems Right Chamber
35	STC	Stems Top Chamber

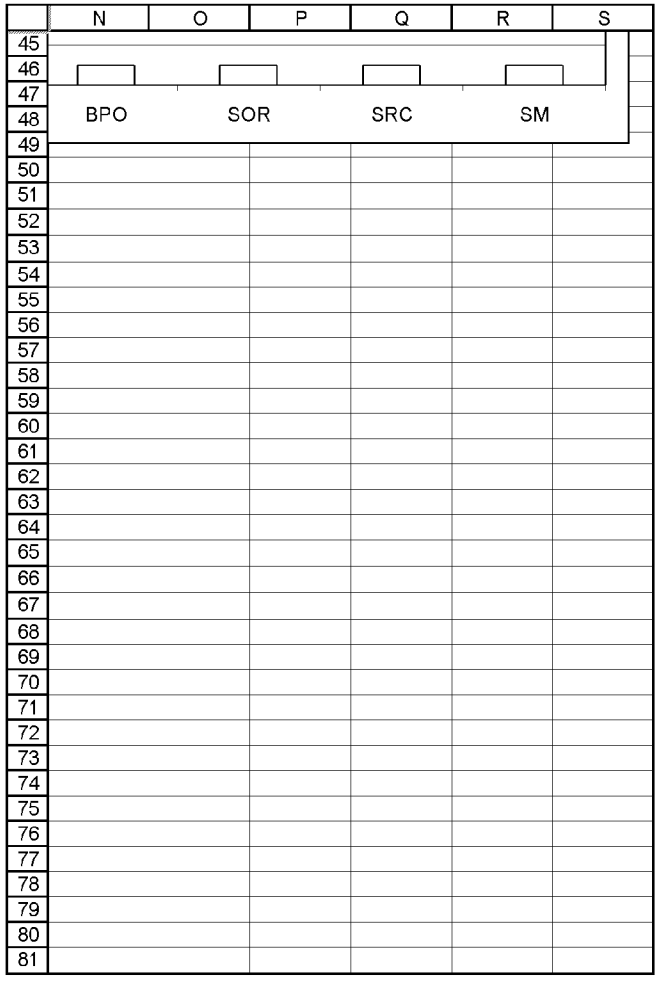
	Ammunition- 270 Win			
36				
37				
38	R270W1		Remington	100 gr Pointed Soft Point
39	R270W2		Remington	130 gr Core- Lokt Pointed Soft Pont
40	R270W3		Remington	130 gr Bronze Point
41	R270W4		Remington	150 gr Core- Lokt Soft Pont
42	PRA270WA		Remington	130 gr Accu Tip Boat Tail
43	PRC270WB		Remington	140 gr Core-Lokt Ultra Bonded PSP
44	RS270WA		Remington	140 gr A- Frame PSP




N
O
P
Q
R
S
ssembly T&P Field Malfunctions

	A	B	C	D	E	F	G	H	I	J	K	L	M
45		PRSC270WA		Remington	130 gr Swift Scirocco Bonded								
46		P270F		Federal	130 gr Nosler Ballistic Tip								
47		P270C		Federal	150 gr Sierra Gameking Boat Tail SP								
48		P270T2		Federal	130 gr Trophy Bonded Bear Claw								
49		X2703		Winchester	130 gr Super- X Silvertip								
50		X2704		Winchester	150 gr Super- X Power Point								
51		SBST270		Winchester	130 gr Supreme Ballistic Silvertip								
52													
53		**Ammunition- 223 Rem**											
54		R223R1		Remington	55 gr Pointed Soft Point								
55		R223R3		Remington	55 gr Metal Case								
56		R223R6		Remington	62 gr Hollow Point (Match)								
57		L223R7		Remington	45 gr Jacketed Hollow Point								
58		PRA223RB		Remington	50 gr Accutip- V Boat Tail								
59		PRA223RC		Remington	55 gr Accutip- V Boat Tail								
60		P223F		Federal	55 gr Nosler Ballistic Tip								
61		P223E		Federal	55 gr Sierra GameKing BoatTail HP								
62		GM223M		Federal	69 gr Sierra MatchKing BoatTail HP								
63		XM193		Federal	55 gr Metal Case Boat Tail								
64		SBST223		Winchester	50 gr Ballistic Silvertip								
65		X223R		Winchester	55 gr Pointed Soft Point								
66													
67		**Ammunition- 308 Win**											
68		R308W1		Remington	150 gr Core- Lokt Pointed Soft Pont								
69		PRC308WC		Remington	180 gr Core-Lokt Ultra								
70		R308W2		Remington	180 gr Core-Lokt Soft Point								
71		PRC308WA		Remington	150 gr Core-Lokt Ultra								
72		PRP308WB		Remington	180 gr Nosler Partition								
73		PRA308WB		Remington	165 gr Accutip Boat Tail								
74		RM308W7		Federal	180 gr Match King Boat Tail HP								
75		P308C		Federal	165 gr Sierra Game King Boat Tail SP								
76		P308F		Federal	150 gr Nosler Ballistic Tip								
77		P308E		Federal	180 gr Nosler Partition								
78		GM308M		Federal	168 gr Sierra Match King BTHP								
79		SBST308		Winchester	150 gr Ballistic Silvertip								
80		X3086		Winchester	180 gr Power Point								
81		SBST308A		Winchester	168 gr Ballistic Silvertip								

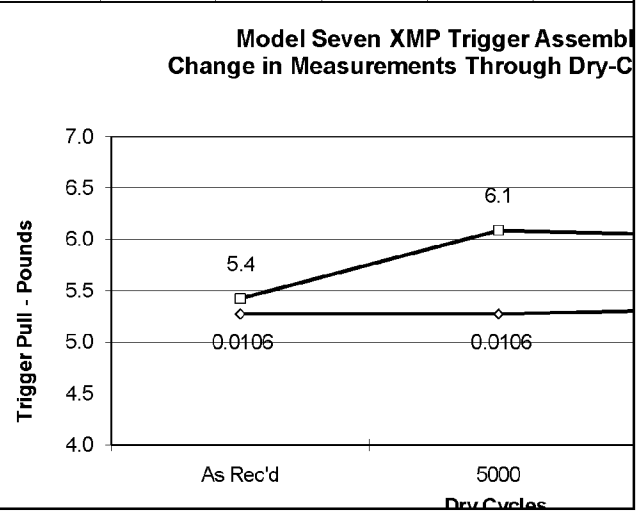


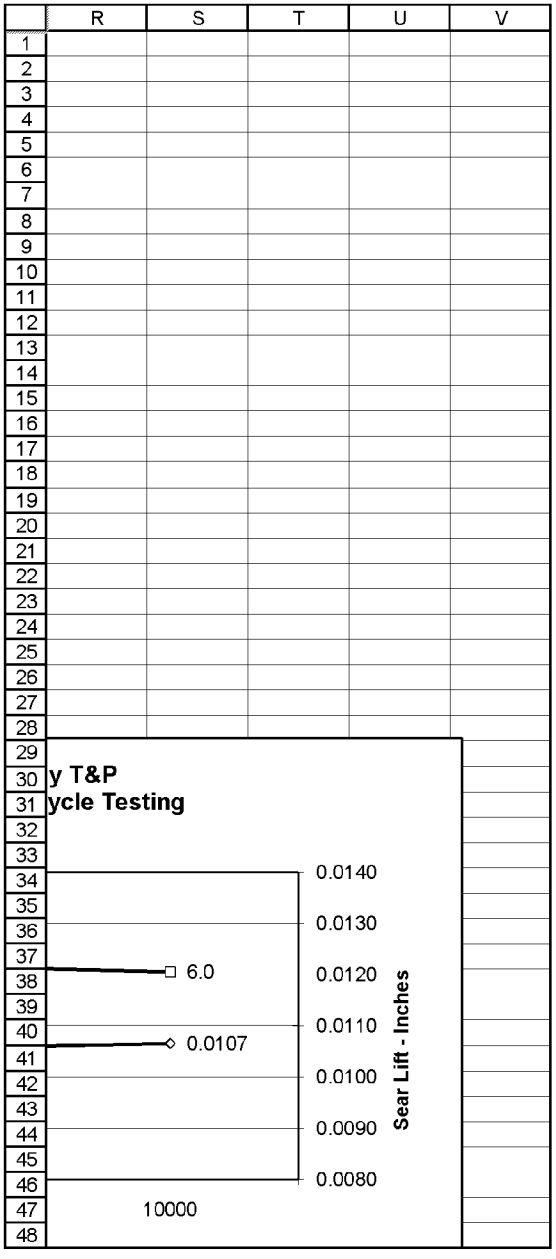

N
O
P
Q
R
S
BPO
SOR
SRC
SM

Cell: I22
Comment: Three hot rounds of SBST270, w/ blown primers, caused bolt release to stick

Cell: G26
Comment: Taped floor plate shut after 100 rounds to continue testing trigger

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1		**Fire Control 1**					**Fire Control 2**						Tr Assy		Trigger Pull		
2	Trigger Pull	**0**	**5000**	**10000**		Trigger Pull	**0**	**5000**	**10000**				1	5.4	5.4	5.6	
3	1	5.5	5.4	5.7		1	6.3	6.7	6.8				2	6.1	5.8	6.1	
4	2	5.3	5.1	5.9		2	6	5.7	5.8				3	6.3	6.6	5.9	
5	3	5.2	5.4	5.3		3	5.7	5.9	6.1				4	5.9	6.8	6.3	
6	4	5.3	5.6	5.5		4	6.1	5.3	6				5	5.6	6.1	6.5	
7	5	5.5	5.6	5.6		5	6.2	5.4	6				6	4.6	5.7	5.3	
8	AV	**5.36**	**5.42**	**5.6**		AV	**6.06**	**5.8**	**6.14**				7	5.3	5.9	5.8	
9													8	5.9	6.3	7.0	
10	Sear Lift	**0.0115**	**0.012**	**0.011**		Sear Lift							9	4.1	5.6	6.1	
11													10	5.3	6.7	5.7	
12		**Fire Control 3**					**Fire Control 4**						Avg	5.4	6.1	6.0	
13	Trigger Pull	**0**	**5000**	**10000**		Trigger Pull	**0**	**5000**	**10000**								
14	1	6.1	6.1	6.2		1	6.3	6.8	6.8								
15	2	6.4	6.5	5.8		2	5.7	7	6.1				Tr Assy		Sear Lift		
16	3	6.3	6.6	6.1		3	5.8	6.9	5.8				1	0.012	0.012	0.011	
17	4	6.2	6.7	5.4		4	5.9	6.6	6.5				2				
18	5	6.3	7.1	6.1		5	6	6.9	6.4				3	0.010	0.010	0.012	
19	AV	**6.26**	**6.6**	**5.92**		AV	**5.94**	**6.84**	**6.32**				4	0.011	0.010	0.010	
20													5	0.012	0.012	0.012	
21	Sear Lift	**0.01**	**0.01**	**0.012**		Sear Lift	**0.0105**	**0.01**	**0.01**				6	0.010	0.010	0.010	
22													7	0.010	0.010	0.010	
23		**Fire Control 5**					**Fire Control 6**						8	0.009	0.009	0.009	
24	Trigger Pull	**0**	**5000**	**10000**		Trigger Pull	**0**	**5000**	**10000**				9	0.011	0.011	0.011	
25	1	5.9	6.4	6.7		1	5.2	6.3	5.1				10	0.011	0.011	0.011	
26	2	5.8	5.9	6.5		2	4.6	5.7	5.3				Avg	0.0106	0.0106	0.0107	
27	3	5.1	5.7	6.2		3	4.3	5.7	5.2								
28	4	5.6	6.2	6.3		4	4.2	5.6	5.3								
29	5	5.4	6.2	6.7		5	4.5	5.4	5.7								
30	AV	**5.56**	**6.08**	**6.48**		AV	**4.56**	**5.74**	**5.32**								
31																	
32	Sear Lift	**0.012**	**0.012**	**0.012**		Sear Lift	**0.01**	**0.01**	**0.01**								
33																	
34		**Fire Control 7**					**Fire Control 8**										
35	Trigger Pull	**0**	**5000**	**10000**		Trigger Pull	**0**	**5000**	**10000**								
36	1	5.9	5.8	5.9		1	5.8	6.2	7.1								
37	2	5.5	5.9	5.9		2	6	6.1	6.8								
38	3	5.1	6	5.4		3	5.6	6.4	7.2								
39	4	5	5.7	5.8		4	6.1	6.7	7								
40	5	5.2	6	5.8		5	5.9	5.9	6.7								
41	AV	**5.34**	**5.88**	**5.76**		AV	**5.88**	**6.26**	**6.96**								
42																	
43	Sear Lift	**0.01**	**0.01**	**0.01**		Sear Lift	**0.009**	**0.009**	**0.009**								
44																	
45		**Fire Control 9**					**Fire Control 10**										
46	Trigger Pull	**0**	**5000**	**10000**		Trigger Pull	**0**	**5000**	**10000**								
47	1	4.3	5.7	6.2		1	5.7	6.8	5.9								
48	2	4.1	5.5	6		2	5.4	6.7	5.6								

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Sear Lift - Inches
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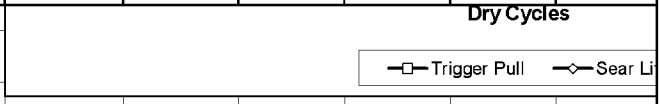
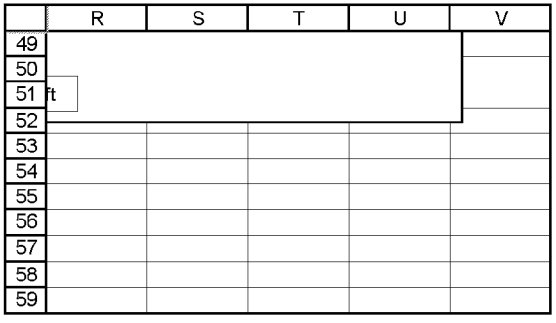
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
49	3	4.2	5.6	6.2		3	5.5	6.4	5.8								
50	4	3.8	5.7	6		4	5	6.9	5.5								
51	5	3.9	5.7	6.1		5	4.8	6.5	5.6								
52	AV	**4.06**	**5.64**	**6.1**		AV	**5.28**	**6.66**	**5.68**								
53																	
54	Sear Lift	**0.011**	**0.011**	**0.011**		Sear Lift	**0.011**	**0.011**	**0.011**								
55																	
56																	
57						**O/A Avgs**	**As Rec'd**	**5000**	**10000**								
58						**Trigger Pull**	5.4	6.1	6.0								
59						**Sear Lift**	0.0106	0.0106	0.0107								

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Initial Measurements

Serial #	Trigger Pull (lbs)	Safety Force (lbs) To On	Safety Force (lbs) To Off	Firing Pin Indent (in)	Sear Lift (in.)	Bolt Lift Force (lbs) Cocked	Bolt Lift Force (lbs) Fired	Headspace Min + (in.)
7815136	3.8	2.7	1.4	0.0208	0.011	4.8	7.0	0.001
7821468Z	4.8	2.6	1.3	0.0207	0.012	5.0	6.6	0.003
7821557	4.5	5.8	3.0	0.0203	0.010	4.9	6.5	0.005
7821852	3.6	6.1	3.1	0.0203	0.012	4.2	6.2	0.001
7815077	3.8	5.9	2.7	0.0190	0.012	4.1	6.3	0.000
7820940	4.4	5.9	2.6	0.0185	0.012	4.4	6.1	0.000
7821396	3.8	2.7	1.4	0.0208	0.011	4.8	7.0	0.001
7821838	5.1	3.2	1.5	0.0205	0.010	4.3	7.2	0.004
7821023	4.5	5.6	4.6	0.0197	0.010	5.2	6.4	0.003
Average	**4.3**	**4.5**	**2.4**	**0.0201**	**0.011**	**4.6**	**6.6**	**0.002**

Comments

Serial #	Sights	Safety Arm
7815136	OK	**Rubs bolt plug**
7821468Z	No Sights (drilled & tapped)	**Rubs bolt plug**
7821557	No Sights (drilled & tapped)	**Rubs bolt plug**
7821852	No Sights (***NOT*** drilled & tapped)	**Rubs bolt plug**
7815077	OK	OK
7820940	OK	**Rubs bolt plug**
7821396	OK	**Rubs bolt plug**
7821838	No Sights (***NOT*** drilled & tapped)	OK
7821023	No Sights (drilled & tapped)	**Rubs bolt plug**

Measurements After Endurance

Serial #	Trigger Pull (lbs)	Safety Force (lbs) To On	Safety Force (lbs) To Off	Headspace Min + (in.)
7815136	4.9	5.9	3.3	0.000
7821468Z	6.1	6.1	2.8	0.003
7821557	4.7	5.6	3.2	0.005
7821852	4.5	6.0	3.3	0.002
7815077	4.3	5.8	2.8	0.000
7820940	4.2	6.3	2.9	0.000
7821396	5.7	6.8	3.0	0.002
7821838	5.1	5.4	3.2	0.004
7821023	6.2	5.8	3.1	0.003
Average	**5.1**	**6.0**	**3.1**	**0.002**

SKU	27297	SEVEN CDL 308 WIN 20" W/SIGHTS
Sear Lift	.008 - .018	
Trig Pull	3.5 to 5.5	

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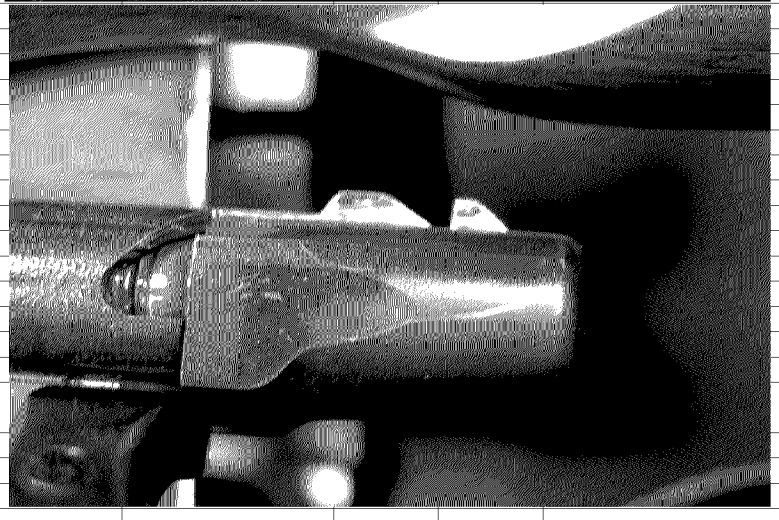

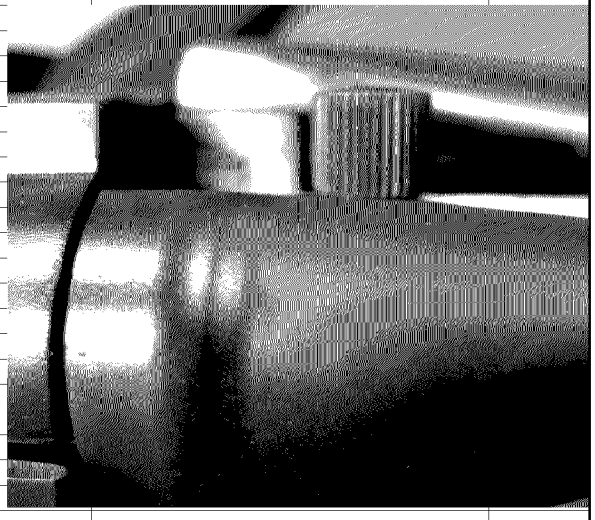

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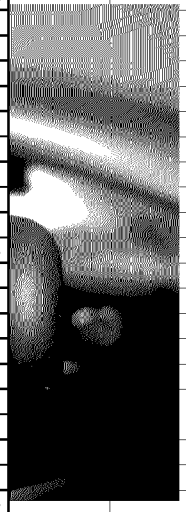
65		
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	A	B	C	D	E
1	**SORTED BY SERIAL NUMBER**				
2				**# of**	
3	**Serial #**	**Tester**	**Ammo**	**Malf.**	**Malfunction**
4	7815136	MP	R308W1	12	Stem Over Ride
5	7815136	MP	R308W1	1	Bolt Over Ride
6			**Total**	**13**	
7					
8	7821468Z	DT	R308W1	1	Stems Chamber Left
9	7821468Z	KF	R308W1	1	Stem Over Ride
10			**Total**	**2**	
11					
12	7821557	MP	R308W1	5	Stem Over Ride
13			**Total**	**5**	
14					
15	7821852	DT	R308W1	3	Stems Incline
16			**Total**	**3**	
17					
18	7815077	KF	R308W1	3	Stem Over Ride
19			**Total**	**3**	
20					
21	7820940	MP	R308W1	2	Stem Over Ride
22			**Total**	**2**	
23					
24	7821396	DT	R308W1	7	Stem Over Ride
25	7821396	DT	R308W1	1	Stems Incline
26			**Total**	**8**	
27					
28	7821838	KF	R308W1	2	Bolt Over Ride
29	7821838	KF	R308W1	4	Stem Over Ride
30	7821838	KF	R308W1	1	Stems Chamber Right
31	7821838	KF	R308W1	7	Stems Chamber
32			**Total**	14	

	A	B	C	D	E	F	G	H	I	J	K
1											
2		**MALFUNCTIONS SORTED BY SERIAL NUMBER**									
3			**# of**	**# of**	**Malf.**	**Malfunction**					
4		**Serial #**	**Malf**	**Rds. Fired**	**Rate**	**BOR**	**SI**	**SLC**	**SOR**	**SRC**	**SC**
5		7815136	13	200	6.5%	1			12		
6		7821468Z	2	200	1.0%			1	1		
7		7821557	5	200	2.5%				5		
8		7821852	3	200	1.5%		3				
9		7815077	3	200	1.5%				3		
10		7820940	2	200	1.0%				2		
11		7821396	8	200	4.0%		1		7		
12		7821838	14	200	7.0%	2			4	1	7
13		7821023	0	200	0.0%						
14		**TOTALS**	**50**	**1800**	**2.8%**	**3**	**4**	**1**	**34**	**1**	**7**
15											
16		**MALFUNCTIONS SORTED BY TESTER**									
17			**# of**	**# of**	**Malf.**	**Malfunction**					
18		**Tester**	**Malf**	**Rds. Fired**	**Rate**	**BOR**	**SI**	**SLC**	**SOR**	**SRC**	**SC**
19		Thomas	12	420	2.9%		4	1	7		
20		Paestella	20	600	3.3%	1			19		
21		Farrington	18	780	2.3%	2			8	1	7
22		**TOTALS**	**50**	**1800**	**2.8%**	**3**	**4**	**1**	**34**	**1**	**7**
23											

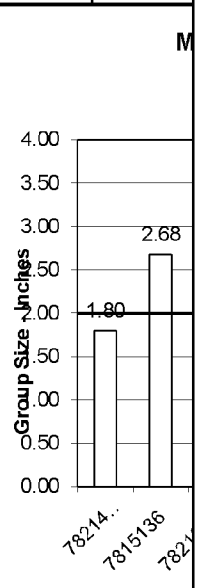
	A	B	C	D	E	F	G	H	I	J	K
24		**Ammunition**		**Description**							
25		Remington	R308W1	150 gr Core-Lokt PSP							
26											
27		**BOR**	Bolt Over Ride								
28		**SI**	Stems Incline								
29		**SLC**	Stems Left Chamber								
30		**SOR**	Stem Override								
31		**SRC**	Stems Right Chamber								
32		**SC**	Stems Chamber								

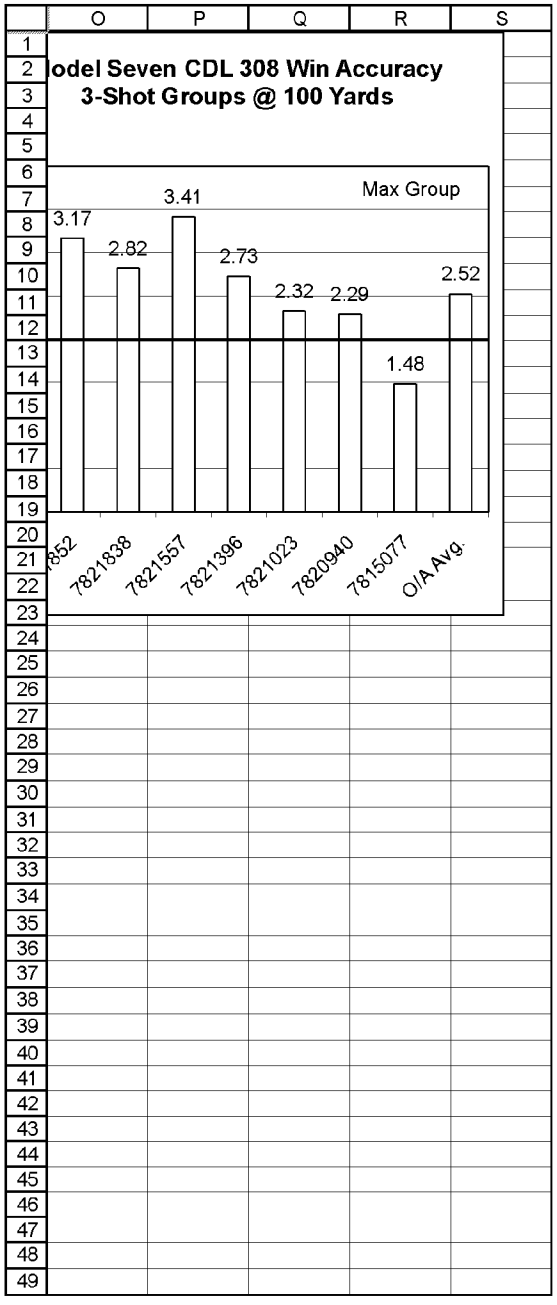
	A	B	C	D	E
1	**SORTED BY SERIAL NUMBER**				
2				**# of**	
3	**Serial #**	**Tester**	**Ammo**	**Malf.**	**Malfunction**
4	7815136	RM	R308W2	1	Stem Over Ride
5					
6			**Total**	**1**	
7					
8	7821468Z	KF	R308W1	1	Stems Chamber Left
9	7821468Z	KF	R308W2	1	Stems Chamber Left
10	7821468Z	KF	R308W2	1	Stems Chamber Right
11			**Total**	**3**	
12					
13	7815077	RM	R308W1	1	Stems Chamber Right
14			**Total**	**1**	
15					
16					
17	7821396	KF	R308W2	1	Stem Over Ride
18					
19			**Total**	**1**	
20					
21	7821852			0	
22	7821023			0	
23	7821838			0	
24	7820940			0	
25	7821557			0	
26			**Total**	**0**	

	A	B	C	D	E	F	G	H
1								
2		**MALFUNCTIONS SORTED BY SERIAL NUMBER**						
3			**# of**	**# of**	**Malf.**	**Malfunction**		
4		**Serial #**	**Malf**	**Rds. Fired**	**Rate**	**SLC**	**SOR**	**SRC**
5		7815136	1	20	5.0%		1	
6		7821468Z	3	20	15.0%	2		1
7		7821557	0	20	0.0%			
8		7821852	0	20	0.0%			
9		7815077	1	20	5.0%			1
10		7820940	0	20	0.0%			
11		7821396	1	20	5.0%		1	
12		7821838	0	20	0.0%			
13		7821023	0	20	0.0%			
14		**TOTALS**	**6**	**180**	**3.3%**	**2**	**2**	**2**
15								
16		**MALFUNCTIONS SORTED BY TESTER**						
17			**# of**	**# of**	**Malf.**	**Malfunction**		
18		**Tester**	**Malf**	**Rds. Fired**	**Rate**	**SLC**	**SOR**	**SRC**
19		Morris	2	90	2.2%		1	1
20		Farrington	4	90	4.4%	2	1	1
21		**TOTALS**	**6**	**180**	**3.3%**	**2**	**2**	**2**
22								
23		**MALFUNCTIONS SORTED BY AMMO**						
24			**# of**	**# of**	**Malf.**	**Malfunction**		
25		**Ammo**	**Malf**	**Rds. Fired**	**Rate**	**SLC**	**SOR**	**SRC**
26		R308W1	3	90	3.3%	1	1	1
27		R308W2	3	90	3.3%	1	1	1
28		**TOTALS**	**6**	**180**	**3.3%**	**2**	**2**	**2**
29								

	A	B	C	D	E	F	G	H
30		**Ammunition**		**Description**				
31		Remington	R308W1	150 gr Core-Lokt PSP				
32		Remington	R308W2	180 gr Core-Lokt SP				
33								
34		**SLC**	Stems Left Chamber					
35		**SOR**	Stem Override					
36		**SRC**	Stems Right Chamber					

	A	B	C	D	E	F	G	H	I
1							Horizontal	Vertical	Number of
2	SERIAL #	Bore Dia.	Ammo	Range	GRP	Group Size	Spread	Spread	Shots
3		.308	R308W3	100 yds		2.18	0.47	2.16	3
4			180 gr			1.25	0.82	1.24	3
5	8721468Z		Core-Lokt			1.96	1.29	1.55	3
6			PSP		AVG.	**1.80**	**0.86**	**1.65**	**9**
7		.308	R308W3	100 yds		2.32	2.21	0.69	3
8			180 gr			2.27	1.87	1.3	3
9	7815136		Core-Lokt			3.44	2.94	1.96	3
10			PSP		AVG.	**2.68**	**2.34**	**1.32**	**9**
11		.308	R308W3	100 yds		4.08	2.94	3.12	3
12			180 gr			2.93	1.00	2.85	3
13	7821852		Core-Lokt			2.49	2.12	1.87	3
14			PSP		AVG.	**3.17**	**2.02**	**2.61**	**9**
15		.308	R308W3	100 yds		1.75	1.7	0.65	3
16			180 gr			3.02	2.43	1.79	3
17	7821838		Core-Lokt			3.68	2.92	3.10	3
18			PSP		AVG.	**2.82**	**2.35**	**1.85**	**9**
19		.308	R308W3	100 yds		4.02	0.32	4.02	3
20			180 gr			3.38	1.51	3.03	3
21	7821557		Core-Lokt			2.84	2.38	2.61	3
22			PSP		AVG.	**3.41**	**1.40**	**3.22**	**9**
23		.308	R308W3	100 yds		2.59	1.12	2.37	3
24			180 gr			2.49	2.48	0.24	3
25	7821396		Core-Lokt			3.10	1.23	2.84	3
26			PSP		AVG.	**2.73**	**1.61**	**1.82**	**9**
27		.308	R308W3	100 yds		0.91	0.56	0.8	3
28			180 gr			3.31	1.7	3.01	3
29	7821023		Core-Lokt			2.74	1.83	2.28	3
30			PSP		AVG.	**2.32**	**1.36**	**2.03**	**9**
31		.308	R308W3	100 yds		1.57	0.33	1.53	3
32			180 gr			3.31	3.00	1.60	3
33	7820940		Core-Lokt			1.98	1.65	1.68	3
34			PSP		AVG.	**2.29**	**1.66**	**1.60**	**9**
35		.308	R308W3	100 yds		1.13	0.57	0.98	3
36			180 gr			0.85	0.85	0.56	3
37	7815077		Core-Lokt			2.46	1.68	1.91	3
38			PSP		AVG.	**1.48**	**1.03**	**1.15**	**9**
39									
40				7821468Z		**1.80**	**0.86**	**1.65**	**9**
41				7815136		**2.68**	**2.34**	**1.32**	**9**
42				7821852		**3.17**	**2.02**	**2.61**	**9**
43				7821838		**2.82**	**2.35**	**1.85**	**9**
44				7821557		**3.41**	**1.40**	**3.22**	**9**
45				7821396		**2.73**	**1.61**	**1.82**	**9**
46				7821023		**2.32**	**1.36**	**2.03**	**9**
47				7820940		**2.29**	**1.66**	**1.60**	**9**
48				7815077		**1.48**	**1.03**	**1.15**	**9**
49			Spec = 2.0 w/3 shots	O/A Avg.		**2.52**	**1.63**	**1.92**	**9**




odel Seven CDL 308 Win Accuracy
3-Shot Groups @ 100 Yards
Max Group
3.17
2.82
3.41
2.73
2.32
2.29
1.48
2.52
7821838
7821557
7821396
7821023
7820940
7815077
O/A Avg.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1			SKU	###	###	###	###	###	###	###	###	###	###
2			Caliber	223 Rem	300 Win Mag	243 Win	270 WSM	270 Win	300 Win Mag	30-06 Sprgfld	223 Rem	300 Win Mag	270 Win
3			Serial #	G6710 034	TT0098 56	G6775 952	S76660 02	G6794 912	TT0098 86	D66343 19	G6710 045	TT0096 20	G6794 916
4		Sect	Firearm #	A-1	A-2	A-3	A-4	A-5	A-6	A-7	A-8	A-9	A-10
5			Description										
6	Headspace & Proof	A	Measure Headspace	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
7		B											
8		C											
9		D											
10	Force Measurement	E	Firing Pin Indent	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
11		F	Slam Test										
12		G	Regain	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
13		H	Trigger Pull Force	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
14			Safe On Force	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
15			Safe Off Force	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
16		I	Safety Operation / Sear Lift	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
17		J											
18		K	40 lb. Trigger Pull										
19	Dimensional Measurement	L											
20		M											
21		N											
22		O											
23		P											
24	Function & Endurance												
25		Q											
26		R	Field Function	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
27			Ext. Func. & End.-500 rds.	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
28			Ext. Func. & End.-1000 rds.					◆	◆	◆	◆	◆	◆
29			Ext. Func. & End.-2000 rds.							◆	◆	◆	◆
30			Ext. Func. & End.-3000 rds.									◆	◆
31													
32													
33		S											
34		T	Dry Cycle - 10,000 Cycles										
35		U	Clean & Inspect	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆

	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
1	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###
2	270 WSM	270 Win	300 Win Mag	270 WSM	223 Rem	270 Win	243 Win	30-06 Sprgfld	30-06 Sprgfld	243 Win	300 WSM	300 WSM	300 WSM	270 Win	270 Win	270 Win	270 WSM	270 WSM	270 WSM	223 Rem
3	S76661 49	G6794 918	TT0098 88	S76661 51	G6710 093	G6794 937	G6775 976	D66343 91	D66343 89	G6775 991	TT0101 46	TT0101 47	TT0101 52	G6794 928	G6794 926	G6795 071	S76661 67	S76661 83	S76662 15	G6714 165
4	A-11	A-12	A-13	A-14	A-15	A-16	A-17	A-18	A-19	A-20	A-21	A-22	A-23	A-24	A-25	A-26	A-27	A-28	A-29	A-30
5																				
6	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆										
7																				
8																				
9																				
10	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆										
11											◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
12	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆										
13	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆										
14	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆										
15	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆										
16	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆										
17																				
18											◆			◆			◆			◆
19																				
20																				
21																				
22																				
23																				
24																				
25																				
26	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆										
27	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆										
28	◆	◆	◆	◆	◆															
29	◆	◆	◆																	
30	◆																			
31																				
32																				
33																				
34																				
35	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆										

	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1	###	###	###	###	###	###	###	###	---	---	---	---	---	---	---	---	---	---	
2	223 Rem	223 Rem	30-06 Sprgfld	30-06 Sprgfld	30-06 Sprgfld	243 Win	243 Win	243 Win											
3	G6714 181	G6714 199	D66344 01	D66344 12	D66343 16	G6776 006	G6776 016	G6776 018	TA-1 Trig Assy	TA-2 Trig Assy	TA-3 Trig Assy	TA-4 Trig Assy	TA-5 Trig Assy	TA-6 Trig Assy	TA-7 Trig Assy	TA-8 Trig Assy	TA-9 Trig Assy	TA-10 Trig Assy	Sample Size
4	A-31	A-32	A-33	A-34	A-35	A-36	A-37	A-38											
5																			
6																			20
7																			0
8																			0
9																			0
10																			20
11	◆	◆	◆	◆	◆	◆	◆	◆											18
12									◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	30
13									◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	30
14									◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	30
15									◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	30
16									◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	30
17																			0
18			◆			◆													7
19																			0
20																			0
21																			0
22																			0
23																			0
24																			0
25																			0
26																			20
27																			20
28																			11
29																			7
30																			3
31																			0
32																			0
33																			0
34									◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	10
35																			20

	A	B	C	D	E	F	G	H	I	J	K	L	M
36	Acc.	V											
37		W											
38	Environment	X											
39		Y											
40		Z											
41		AA											
42		AB											
43	Abusive	AC	SAAMI Drop										
44		AD	SAAMI Jar-off										
45		AE	SAAMI Rotation										
46		AF											
47		AG											
48		AH											
49		AI											
50													
51													
52													
53													
54													
55													

	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
36																				
37																				
38																				
39																				
40																				
41																				
42																				
43											◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
44											◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
45											◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
46																				
47																				
48																				
49																				
50																				
51																				
52																				
53																				
54									Complete											
55																				

	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
36																			0
37																			0
38																			0
39																			0
40																			0
41																			0
42																			0
43	◆	◆	◆	◆	◆	◆	◆	◆											18
44	◆	◆	◆	◆	◆	◆	◆	◆											18
45	◆	◆	◆	◆	◆	◆	◆	◆											18
46																			0
47																			
48																			
49																			0
50																			0
51																			0
52																			0
53																			
54																			
55																			

	A	B	C	D	E	F	G	H
1								
2	**Initial Measurements**							
3					Safety Force (lbs)			
4		**Caliber**	**Serial #**	**Trigger Pull (lbs)**	**To On**	**To Off**	**Firing Pin Indent (in)**	**Sear Lift (in.)**
5	A1	223 Rem	G6710034	3.4	6.2	3.6	0.0213	0.013
6	A2	300 Win Mag	TT009856	3.4	5.5	2.9	0.0217	0.012
7	A3	243 Win	G6775952	3.7	6.3	3.6	0.0208	0.012
8	A4	270 WSM	S7666002	3.6	6.2	3.7	0.0202	0.013
9	A5	270 Win	G6794912	3.5	5.9	3.6	0.0208	0.012
10	A6	300 Win Mag	TT009886	3.7	6.7	3.2	0.0220	0.014
11	A7	30-06 Sprgfld	D6634319	3.5	5.5	3.4	0.0208	0.012
12	A8	223 Rem	G6710045	3.5	5.5	3.4	0.0208	0.012
13	A9	300 Win Mag	TT009620	3.5	5.7	3.1	0.0217	0.011
14	A10	270 Win	G6794916	3.2	5.8	2.8	0.0217	0.013
15	A11	270 WSM	S7666149	3.3	5.8	3.2	0.0197	0.012
16	A12	270 Win	G6794918	3.5	5.7	3.1	0.0217	0.012
17	A13	300 Win Mag	TT009888	3.6	6.3	3.0	0.0217	0.012
18	A14	270 WSM	S7666151	3.6	6.1	2.7	0.0192	0.012
19	A15	223 Rem	G6710093	3.7	6.2	3.1	0.0212	0.012
20	A16	270 Win	G6794937	3.4	6.2	3.0	0.0127	0.012
21	A17	243 Win	G6775976	3.4	5.9	3.1	0.0208	0.013
22	A18	30-06 Sprgfld	D6634391	3.4	6.0	3.2	0.0218	0.012
23	A19	30-06 Sprgfld	D6634389	3.6	5.3	3.1	0.0210	0.010
24	A20	243 Win	G6775991	3.4	5.2	3.0	0.0205	0.012
25			**Averages**	**3.5**	**5.9**	**3.2**	**0.0206**	**0.012**
26								
27								
28								**En**
29				**500 rds**			**1000 rds**	
30								
31		**Caliber**	**Serial #**	**Trigger Pull (lbs)**	**Sear Lift (in)**	**Headspace Min + (in.)**	**Trigger Pull (lbs)**	**Sear Lift (in)**
32	A1	223 Rem	G6710034	5.8	0.013	0.001		
33	A2	300 Win Mag	TT009856	3.7	0.011	0.001		
34	A3	243 Win	G6775952	4.7	0.012	0.001		
35	A4	270 WSM	S7666002	4.4	0.013	0.002		
36	A5	270 Win	G6794912	3.7	0.012	0.000		
37	A6	300 Win Mag	TT009886				3.7	0.014
38	A7	30-06 Sprgfld	D6634319				3.9	0.012
39	A8	223 Rem	G6710045				3.9	0.012
40	A9	300 Win Mag	TT009620					
41	A10	270 Win	G6794916				5.7	0.013
42	A11	270 WSM	S7666149				33	0.012
43	A12	270 Win	G6794918				3.5	0.012
44	A13	300 Win Mag	TT009888					

	I	J	K	L	M	N
1						
2						
3						
4	**Headspace Min + (in.)**					
5	0.002					
6	0.001					
7	0.001					
8	0.002					
9	0.000					
10	0.000					
11	0.002					
12	0.002					
13	0.001					
14	0.000					
15	0.002					
16	0.001					
17	0.000					
18	0.002					
19	0.002					
20	0.000					
21	0.001					
22	0.000					
23	0.000					
24	0.003					
25	**0.001**					
26						
27						
28	**durance Function Measurements**					
29		**2000 rds**			**3000 rds**	
30						
31	**Headspace Min + (in.)**	**Trigger Pull (lbs)**	**Sear Lift (in)**	**Headspace Min + (in.)**	**Trigger Pull (lbs)**	**Sear Lift (in)**
32						
33						
34						
35						
36						
37	0.001					
38	0.001	3.5	0.012	0.002		
39	0.001					
40						
41	0.000	5.7	0.012	0.000	3.4	0.012
42	0.002					
43	0.000	3.4	0.012	0.000		
44						

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28	
29	
30	
31	**Headspace Min + (in.)**
32	
33	
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35	
36	
37	
38	
39	
40	
41	0.000
42	
43	
44	

	A	B	C	D	E	F	G	H
45	A14	270 WSM	S7666151	"	"	"		
46	A15	223 Rem	G6710093	"	"	"	5.5	0.012
47	A16	270 Win	G6794937	"	"	"	6	0.012
48	A17	243 Win	G6775976	3.6	0.013	0.001	"	"
49	A18	30-06 Sprgfld	D6634391	3.4	0.011	0.000	"	"
50	A19	30-06 Sprgfld	D6634389	5.2	0.010	0.001	"	"
51	A20	243 Win	G6775991	4.0	0.012	0.003	"	"
52								
53								
54								
55								
56	Measurements for Drop & Slam Test							
57					Safety Force (lbs)			
58		Caliber	Serial #	Trigger Pull (lbs)	To On	To Off	Firing Pin Indent (in)	Sear Lift (in.)
59	A21	300 WSM	TT010146	3.1	5.4	3.2	0.0217	0.012
60	A22	300 WSM	TT010147	3.0	5.2	3.1	0.0207	0.012
61	A23	300 WSM	TT010152	3.0	6.0	2.8	0.0215	0.012
62	A24	270 Win	G6794927	3.0	5.7	3.2	0.0220	0.012
63	A25	270 Win	G6794930	3.0	6.2	3.4	0.0220	0.012
64	A26	270 Win	G6795071	3.0	5.3	3.0	0.0212	0.011
65	A27	270 WSM	S7666167	3.0	5.1	3.4	0.0195	0.012
66	A28	270 WSM	S7666183	3.0	5.8	2.5	0.0190	0.012
67	A29	270 WSM	S7666215	3.0	6.5	3.5	0.0205	0.012
68	A30	223 Rem	G6714165	3.0	5.4	3.0	0.0213	0.013
69	A31	223 Rem	G6714181	3.0	6.5	3.0	0.0215	0.011
70	A32	223 Rem	G6714199	3.0	6.8	2.7	0.0215	0.013
71	A33	30-06 Sprgfld	D6634401	3.0	5.4	2.9	0.0218	0.011
72	A34	30-06 Sprgfld	D6634412	3.0	6.7	2.9	0.0215	0.012
73	A35	30-06 Sprgfld	D6634316	3.0	5.4	3.1	0.0203	0.012
74	A36	243 Win	G6776006	3.0	6.8	3.9	0.0210	0.013
75	A37	243 Win	G6776016	3.0	5.3	2.9	0.0210	0.012
76	A38	243 Win	G6776018	3.0	5.2	3.0	0.0213	0.012
77			**Averages**	**3.0**	**5.8**	**3.1**	**0.0211**	**0.012**

	I	J	K	L	M	N
45						
46	0.002					
47	0.000					
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58	**Headspace Min + (in.)**	**Trigger Pull (lbs) After Drop**				
59	0.001	3.3				
60	0.001	2.9				
61	0.001	3.0				
62	0.000	2.9				
63	0.000	Bolt Handle Broke @ Braze				
64	0.000	3.1				
65	0.002	3.0				
66	0.003	2.6				
67	0.001	2.7				
68	0.001	3.3				
69	0.001	3.5				
70	0.001	3.2				
71	0.000	3.4				
72	0.001	3.1				
73	0.001	3.6				
74	0.001	3.3				
75	0.003	3.3				
76	0.001	3.3				
77	**0.001**	**3.1**				

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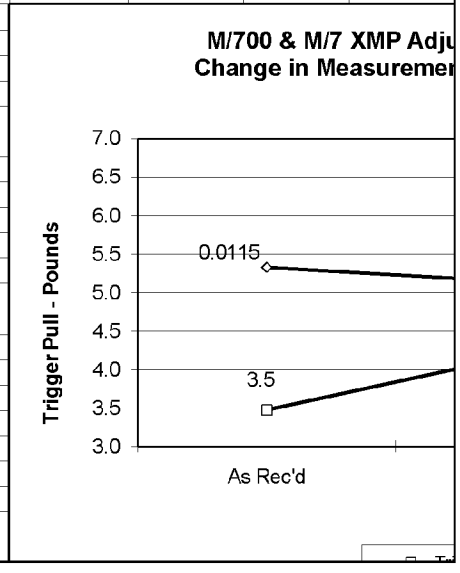
	A	B	C	D	E	F	G	H
1								
2		**Slam**						
3		**Firearm #**	**Serial #**	**Protrusion**	**Safety in Safe Position**	**Safety in Fire Position**	**Firing Pin Indent**	**40 # Trigger Pull**
4		A21	TT010146	0.0585	OK	OK	0.0217	**OK**
5		A22	TT010147	0.0605	OK	OK	0.0207	
6		A23	TT010152	0.0555	OK	OK	0.0215	
7		A24	G6794927	0.0525	OK	OK	0.0220	**OK**
8		A25	G6794930	0.0540	OK	OK	0.0220	
9		A26	G6795071	0.0555	OK	OK	0.0212	
10		A27	S7666167	0.0490	OK	OK	0.0195	**OK**
11		A28	S7666183	0.0560	OK	OK	0.0190	
12		A29	S7666215	0.0505	OK	OK	0.0205	
13		A30	G6714165	0.0535	OK	OK	0.0212	**OK**
14		A31	G6714181	0.0570	OK	OK	0.0215	
15		A32	G6714199	0.0535	OK	OK	0.0215	
16		A33	D6634401	0.0505	OK	OK	0.0218	
17		A34	D6634412	0.0580	OK	OK	0.0215	
18		A35	D6634316	0.0525	OK	OK	0.0203	
19		A36	G6776006	0.0595	OK	OK	0.0212	**OK**
20		A37	G6776016	0.0485	OK	OK	0.0210	
21		A38	G6776018	0.0570	OK	OK	0.0198	
22								
23		**Procedure:** Slam and cam the bolt 5 times in the fire and safe positions,						
24		recording any malfunctions.						

	A	B	C	D	E	F	G	H	I
1									
2		**JAR OFF TEST (See S.A.A.M.I. volume VII, centerfire rifle, section 7-95.04)**							
3		12 inch drop measured from the lowest point of the firearm. Firearm in the **SAFE OFF** position.							
4		**Fire Arm**	**Serial #**	**BV, MU**	**BV, MD**	**BH, BD**	**BH, BU**	**BH, RSU**	**BH, LSU**
5		A21	TT010146	OK	OK	OK	OK	OK	OK
6		A22	TT010147	OK	OK	OK	OK	OK	OK
7		A23	TT010152	OK	OK	OK	OK	OK	OK
8		A24	G6794928	OK	OK	OK	OK	OK	OK
9		A25	G6794926	OK	OK	OK	OK	OK	OK
10		A26	G6795071	OK	OK	OK	OK	OK	OK
11		A27	S7666167	OK	OK	OK	OK	OK	OK
12		A28	S7666183	OK	OK	OK	OK	OK	OK
13		A29	S7666215	OK	OK	OK	OK	OK	OK
14		A30	G6714165	OK	OK	OK	OK	OK	OK
15		A31	G6714181	OK	OK	OK	OK	OK	OK
16		A32	G6714199	OK	OK	OK	OK	OK	OK
17		A33	D6634401	OK	OK	OK	OK	OK	OK
18		A34	D6634412	OK	OK	OK	OK	OK	OK
19		A35	D6634316	OK	OK	OK	OK	OK	OK
20		A36	G6776006	OK	OK	OK	OK	OK	OK
21		A37	G6776016	OK	OK	OK	OK	OK	OK
22		A38	G6776018	OK	OK	OK	OK	OK	OK
23									
24		**DROP TEST (see S.A.A.M.I. volume VII, centerfire rifle, section 7-95.02)**							
25		48 inch drop measured from the center of gravity of the firearm. Firearm in the **SAFE ON** position.							
26		**Fire Arm**	**Serial #**	**BV, MU**	**BV, MD**	**BH, BD**	**BH, BU**	**BH, RSU**	**BH, LSU**
27		A21	TT010146	OK	OK	OK	OK	OK	OK
28		A22	TT010147	OK	OK	OK	OK	OK	OK
29		A23	TT010152	OK	OK	OK	OK	OK	OK
30		A24	G6794928	OK	OK	OK	OK	OK	OK
31		A25	G6794926	OK	OK	OK	OK	OK	OK
32		A26	G6795071	OK	OK	OK	OK	OK	OK
33		A27	S7666167	OK	OK	OK	OK	OK	OK
34		A28	S7666183	OK	OK	OK	OK	OK	OK
35		A29	S7666215	OK	OK	OK	OK	OK	OK
36		A30	G6714165	OK	OK	OK	OK	OK	OK
37		A31	G6714181	OK	OK	OK	OK	OK	OK
38		A32	G6714199	OK	OK	OK	OK	OK	OK
39		A33	D6634401	OK	OK	OK	OK	OK	OK
40		A34	D6634412	OK	OK	OK	OK	OK	OK
41		A35	D6634316	OK	OK	OK	OK	OK	OK
42		A36	G6776006	OK	OK	OK	OK	OK	OK
43		A37	G6776016	OK	OK	OK	OK	OK	OK
44		A38	G6776018	OK	OK	OK	OK	OK	OK
45									
46		**ROTATION TEST (see S.A.A.M.I. volume VII, centerfire rifle, section 7-95.03)**							
47		With the butt on the mat, let the firearm fall to the right & left. Firearm in the **SAFE ON** position.							
48				**LEFT SIDE UP**				**RIGHT SIDE UP**	

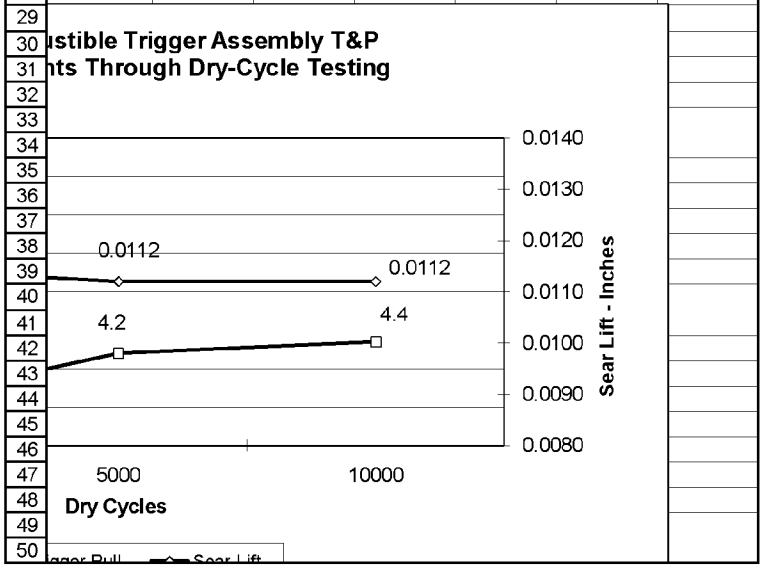
	A	B	C	D	E	F	G	H	I
49		A21	TT010146	OK	OK	OK	OK	OK	OK
50		A22	TT010147	OK	OK	OK	OK	OK	OK
51		A23	TT010152	OK	OK	OK	OK	OK	OK
52		A24	G6794928	OK	OK	OK	OK	OK	OK
53		A25	G6794926	OK	OK	OK	OK	OK	OK
54		A26	G6795071	OK	OK	OK	OK	OK	OK
55		A27	S7666167	OK	OK	OK	OK	OK	OK
56		A28	S7666183	OK	OK	OK	OK	OK	OK
57		A29	S7666215	OK	OK	OK	OK	OK	OK
58		A30	G6714165	OK	OK	OK	OK	OK	OK
59		A31	G6714181	OK	OK	OK	OK	OK	OK
60		A32	G6714199	OK	OK	OK	OK	OK	OK
61		A33	D6634401	OK	OK	OK	OK	OK	OK
62		A34	D6634412	OK	OK	OK	OK	OK	OK
63		A35	D6634316	OK	OK	OK	OK	OK	OK
64		A36	G6776006	OK	OK	OK	OK	OK	OK
65		A37	G6776016	OK	OK	OK	OK	OK	OK
66		A38	G6776018	OK	OK	OK	OK	OK	OK
67									
68		**DROP ORDER**	**FIREARM ATTITUDES**				BH	Barrel Horizontal	
69							BV	Barrel Vertical	
70		1	BARREL VERTICAL, MUZZLE UP				MU	Muzzle Up	
71		2	BARREL VERTICAL, MUZZLE DOWN				MD	Muzzle Down	
72		3	BARREL HORIZONTAL, BOTTOM				BD	Bottom Down	
73		4	BARREL HORIZONTAL, BOTTOM UP				BU	Bottom Up	
74		5	BARREL HORIZONTAL, RIGHT SIDE UP				LSU	Left Side Up	
75		6	BARREL HORIZONTAL, LEFT SIDE UP				RSU	Right Side Up	

Cell: F42
Comment: Magazine opened

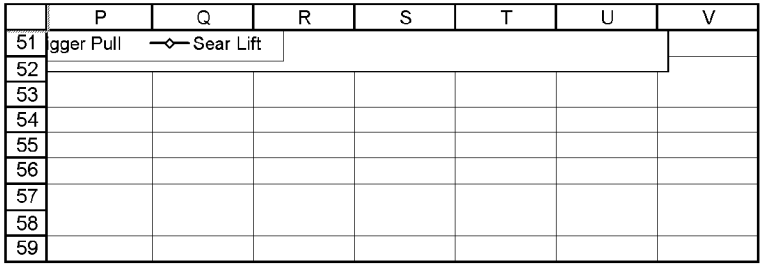
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	**Fire Control 1 M/700**					**Fire Control 2 M/700**							Tr Assy		Trigger Pull
2	Trigger Pull	**0**	**5000**	**10000**		Trigger Pull	**0**	**5000**	**10000**				1	3.5	4.5
3	1	3.5	4.2	4.8		1	3.4	4.5	4.7				2	3.5	4.4
4	2	3.5	4.4	4.5		2	3.5	4.3	4.6				3	3.5	3.7
5	3	3.4	4.7	4.4		3	3.5	4.5	4.3				4	3.5	4.6
6	4	3.5	4.8	4.5		4	3.6	4.5	4.3				5	3.4	3.5
7	5	3.5	4.5	4.3		5	3.4	4.3	4.5				6	3.5	4.1
8	Average	**3.48**	**4.52**	**4.5**		Average	**3.48**	**4.42**	**4.48**				7	3.5	4.0
9	Sear Lift	0.012	0.01	0.01		Sear Lift	0.011	0.011	0.011				8	3.5	3.8
10	Safe Off / On	**2.7 / 6.0**	**2.3 / 4.8**	**2.4 /4.7**		Safe Off / On	**2.9 / 6.2**	**2.5 / 5.8**	**2.2 / 5.3**				9	3.6	4.4
11													10	3.3	5.0
12	**Fire Control 3 M/700**					**Fire Control 4 M/700**							Avg	3.5	4.2
13	Trigger Pull	**0**	**5000**	**10000**		Trigger Pull	**0**	**5000**	**10000**						
14	1	3.6	3.7	3.7		1	3.5	4.8	4.8						
15	2	3.5	3.8	3.8		2	3.4	4.7	4.8				Tr Assy		Sear Lift
16	3	3.5	3.8	4.1		3	3.6	4.5	5.2				1	0.012	0.010
17	4	3.5	3.6	3.6		4	3.5	4.4	5.2				2	0.011	0.011
18	5	3.3	3.7	3.8		5	3.5	4.4	5.0				3	0.011	0.011
19	Average	**3.48**	**3.72**	**3.80**		Average	**3.5**	**4.56**	**5.0**				4	0.012	0.012
20	Sear Lift	0.011	0.011	0.011		Sear Lift	0.012	0.012	0.011				5	0.011	0.011
21	Safe Off / On	**2.9 / 5.5**	**2.5 / 5.4**	**2.5 / 5.0**		Safe Off / On	**2.8 / 5.5**	**2.6 / 5.9**	**2.3 / 5.1**				6	0.011	0.011
22													7	0.011	0.011
23	**Fire Control 5 M/700**					**Fire Control 6 M/700**							8	0.013	0.012
24	Trigger Pull	**0**	**5000**	**10000**		Trigger Pull	**0**	**5000**	**10000**				9	0.011	0.012
25	1	3.5	3.5	4		1	3.5	4.3	4.7				10	0.012	0.011
26	2	3.3	3.7	3.7		2	3.5	4.3	4.4				Avg	0.0115	0.0112
27	3	3.4	3.4	3.8		3	3.6	4	4.5						
28	4	3.4	3.6	3.7		4	3.5	3.9	4.5						
29	5	3.6	3.5	3.7		5	3.4	4	4.6						
30	Average	**3.44**	**3.54**	**3.78**		Average	**3.5**	**4.1**	**4.54**						
31	Sear Lift	0.011	0.011	0.012		Sear Lift	0.011	0.011	0.011						
32	Safe Off / On	**3.1 / 7.0**	**3.4 / 7.1**	**3.2 / 6.9**		Safe Off / On	**2.9 / 6.2**	**2.5 / 5.8**	**2.5 / 5.0**						
33															
34	**Fire Control 7 M/7**					**Fire Control 8 M/700**									
35	Trigger Pull	**0**	**5000**	**10000**		Trigger Pull	**0**	**5000**	**10000**						
36	1	3.5	4.2	3.7		1	3.7	3.9	3.7						
37	2	3.6	3.9	3.8		2	3.5	3.7	3.6						
38	3	3.6	4	3.8		3	3.4	3.7	3.8						
39	4	3.6	4	3.6		4	3.4	3.8	3.7						
40	5	3.4	4.1	3.7		5	3.5	3.7	3.6						
41	Average	**3.54**	**4.04**	**3.72**		Average	**3.5**	**3.76**	**3.68**						
42	Sear Lift	0.011	0.011	0.011		Sear Lift	0.013	0.012	0.012						
43	Safe On/ Off	**2.4 / 6.0**	**2.0 / 5.0**	**2.0 / 5.1**		Safe On/ Off	**2.6 / 7.2**	**2.3 / 5.5**	**2.3 / 5.3**						
44															
45	**Fire Control 9 M/7**					**Fire Control 10 M/700**									
46	Trigger Pull	**0**	**5000**	**10000**		Trigger Pull	**0**	**5000**	**10000**						
47	1	3.5	4.6	5.8		1	3.2	4.8	4.2						
48	2	3.5	4.4	5.5		2	3.5	5.2	4.3						
49	3	3.6	4.4	5.7		3	3.3	5.2	4.3						
50	4	3.6	4.5	5.2		4	3.3	4.9	4.1						



	P	Q	R	S	T	U	V
1							
2	4.5						
3	4.8						
4	3.8						
5	5.0						
6	3.8						
7	4.5						
8	3.7						
9	3.7						
10	5.5						
11	4.2						
12	4.4						
13							
14							
15							
16	0.010						
17	0.011						
18	0.011						
19	0.011						
20	0.012						
21	0.011						
22	0.011						
23	0.012						
24	0.012						
25	0.011						
26	0.0112						
27							
28							



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
51	5	3.7	4.3	5.4		5	3.2	4.7	4						Tri
52	Average	**3.58**	**4.44**	**5.52**		Average	**3.3**	**4.96**	**4.18**						
53	Sear Lift	0.011	0.012	0.012		Sear Lift	0.012	0.011	0.011						
54	Safe Off / On	**2.4 / 5.3**	**2.2 / 5.7**	**2.1 / 4.9**		Safe Off / On	**2.7 / 6.7**	**2.8 / 6.1**	**2.6 / 5.3**						
55															
56															
57						**O/A Avgs**	**As Rec'd**	**5000**	**10000**						
58						**Trigger Pull**	3.5	4.2	4.4						
59						**Sear Lift**	0.0115	0.0112	0.0112						


P
Q
R
S
T
U
V
51
gger Pull
Sear Lift
52
53
54
55
56
57
58
59

	A	B	C	D	E
1	**SORTED BY SERIAL NUMBER**				
2				**# of**	
3	**Serial #**	**Tester**	**Ammo**	**Malf.**	**Malfunction**
4	G6775952	Morris	SBST270SA	4	Doesn't Eject
5			**Total**	**4**	
6					
7	TT009620	Morris	X300WM2	4	Opens Hard
8					
9			**Total**	**4**	

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2	MALFUNCTIONS SORTED BY SERIAL NUMBER											
3						Malfunction						
4		Serial #	# of Malf	# of Rds. Fired	Malf. Rate	BOR	OH	SLC	SOR	SRC	SC	Caliber
5	A1	G6710034	0	500	**0.0%**							223 Rem
6	A2	TT009856	0	500	**0.0%**							300 Win Mag
7	A3	G6775952	0	500	**0.0%**							243 Win
8	A4	S7666002	4	500	**0.8%**	4						270 WSM
9	A5	G6794912	0	1000	**0.0%**							270 Win
10	A6	TT009886	0	1000	**0.0%**							300 Win Mag
11	A7	D6634319	0	2000	**0.0%**							30-06 Sprgfld
12	A8	G6710045	0	2000	**0.0%**							223 Rem
13	A9	TT009620	4	3000	**0.1%**		4					300 Win Mag
14	A10	G6794916	0	3000	**0.0%**							270 Win
15	A11	S7666149	0	3000	**0.0%**							270 WSM
16	A12	G6794918	0	2000	**0.0%**							270 Win
17	A13	TT009888	0	2000	**0.0%**							300 Win Mag
18	A14	S7666151	0	1000	**0.0%**							270 WSM
19	A15	G6710093	0	1000	**0.0%**							223 Rem
20	A16	G6794937	0	500	**0.0%**							270 Win
21	A17	G6775976	0	500	**0.0%**							243 Win
22	A18	D6634391	0	500	**0.0%**							30-06 Sprgfld
23	A19	D6634389	0	500	**0.0%**							30-06 Sprgfld
24	A20	G6775991	0	500	**0.0%**							243 Win
25		**TOTALS**	**8**	**25500**	**0.03%**	**4**	**4**	**0**	**0**	**0**	**0**	
26												
27		**BOR**	Bolt Over Ride									
28		**OH**	Opens Hard									
29		**SLC**	Stems Left Chamber									
30		**SOR**	Stem Override									
31		**SRC**	Stems Right Chamber									
32		**SC**	Stems Chamber									

	A	B	C	D	E
1	**SORTED BY SERIAL NUMBER**				
2				**# of**	
3	**Serial #**	**Tester**	**Ammo**	**Malf.**	**Malfunction**
4	S7666002	Paestella	P270WSMC	1	Doesn't Eject
5	S7666002	Farrington	SBST270SA	2	Doesn't Eject
6	S7666002	Paestella	SBST270SA	1	Doesn't Eject
7			**Total**	**4**	
8					
9	D6634319	Paestella	R30065	1	Bolt Over Ride
10			**Total**	**1**	
11					
12	D6634391	Paestella	R30062	1	Bolt Over Ride
13			**Total**	**1**	
14					
15					
16					
17	G6775952	Kucharski	X2432	1	Bolt Over Ride
18			**Total**	**1**	

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2		MALFUNCTIONS SORTED BY SERIAL NUMBER										
3							Malfunction					
4		Serial #	Caliber	# of Malf	# of Rds. Fired	Malf. Rate	BO	DE	SLC	SOR	SRC	Model
5	A1	G6710034	223 Rem	0	80	**0.0%**						700
6	A2	TT009856	300 Win Mag	0	80	**0.0%**						700
7	A3	G6775952	243 Win	1	80	**1.3%**	1					700
8	A4	S7666002	270 WSM	4	80	**5.0%**		4				Seven
9	A5	G6794912	270 Win	0	80	**0.0%**						700
10	A6	TT009886	300 Win Mag	0	80	**0.0%**						700
11	A7	D6634319	30-06 Sprgfld	1	80	**1.3%**	1					700
12	A8	G6710045	223 Rem	0	80	**0.0%**						700
13	A9	TT009620	300 Win Mag	0	80	**0.0%**						700
14	A10	G6794916	270 Win	0	80	**0.0%**						700
15	A11	S7666149	270 WSM	0	80	**0.0%**						Seven
16	A12	G6794918	270 Win	0	80	**0.0%**						700
17	A13	TT009888	300 Win Mag	0	80	**0.0%**						700
18	A14	S7666151	270 WSM	0	80	**0.0%**						Seven
19	A15	G6710093	223 Rem	0	80	**0.0%**						700
20	A16	G6794937	270 Win	0	80	**0.0%**						700
21	A17	G6775976	243 Win	0	80	**0.0%**						700
22	A18	D6634391	30-06 Sprgfld	1	80	**1.3%**	1					700
23	A19	D6634389	30-06 Sprgfld	0	80	**0.0%**						700
24	A20	G6775991	243 Win	0	80	**0.0%**						700
25		**TOTALS**		**7**	**1600**	**0.4%**	**3**	**4**	**0**	**0**	**0**	
26												
27		MALFUNCTIONS SORTED BY TESTER										
28						Malfunction						
29		**Tester**	**# of Malf**	**# of Rds. Fired**	**Malf. Rate**	**BO**	**DE**	**SLC**	**SOR**	**SRC**		
30		Farrington	2	400	**0.5%**		2					
31		Kucharski	1	400	**0.3%**	1						
32		Morris	0	400	**0.0%**							
33		Paestella	4	400	**1.0%**	2	2					
34		**TOTALS**	**7**	**1600**	**0.4%**	**3**	**4**	**0**	**0**	**0**		

	A	B	C	D	E	F	G	H	I	J	K	L
35												
36		MALFUNCTIONS SORTED BY AMMO										
37						Malfunction						
38		Ammo	# of Malf	# of Rds. Fired	Malf. Rate	BO	DE	SLC	SOR	SRC		
39		300WGS	0	40	**0.0%**							
40		BH300WMAG	0	40	**0.0%**							
41		L223R7	0	60	**0.0%**							
42		P270C	0	80	**0.0%**							
43		P270WSMC	1	60	**1.7%**		1					
44		PRA223RB	0	60	**0.0%**							
45		PRA243WA	0	60	**0.0%**							
46		PRA270WSMC	0	60	**0.0%**							
47		PRA300WC	0	40	**0.0%**							
48		PRC270WB	0	80	**0.0%**							
49		PRC300WA	0	40	**0.0%**							
50		R223R2	0	60	**0.0%**							
51		R223R3	0	60	**0.0%**							
52		R243W1	0	60	**0.0%**							
53		R270W1	0	80	**0.0%**							
54		R30062	1	60	**1.7%**	1						
55		R30063	0	60	**0.0%**							
56		R30064	0	60	**0.0%**							
57		R30065	1	60	**1.7%**	1						
58		R300W1	0	40	**0.0%**							
59		RS300WA	0	40	**0.0%**							
60		SBST243	0	60	**0.0%**							
61		SBST270SA	3	60	**5.0%**		3					
62		SBST300	0	40	**0.0%**							
63		X2432	1	60	**1.7%**	1						
64		X2704	0	80	**0.0%**							
65		X270WSM	0	60	**0.0%**							
66		X300WM2	0	40	**0.0%**							
67		**TOTALS**	**7**	**1600**	**0.4%**	**3**	**4**	**0**	**0**	**0**		
68												

	A	B	C	D	E	F	G	H	I	J	K	L
69		**Ammunition**		**Caliber**		**Description**						
70		R300W1	Remington	300 Win Mag		150 gr PSPCL						
71		R30065	Remington	30-06 Sprgfld		180 gr Core- Lokt PSP						
72		R30064	Remington	30-06 Sprgfld		180 gr Core-Lokt SP						
73		R30063	Remington	30-06 Sprgfld		150 gr Bronnze Point						
74		R30062	Remington	30-06 Sprgfld		150 gr PSPCL						
75		R270W1	Remington	270 Win		100 gr PSP						
76		R243W1	Remington	243 Win		80 gr PSP						
77		R223R3	Remington	223 Rem		55 gr Metal Case						
78		R223R2	Remington	223 Rem		55 gr Power- Lokt HP						
79		PRC300WA	Remington	300 Win Mag		150 gr PSPCLU						
80		PRC270WB	Remington	270 Win		140 gr PSPCLU						
81		PRA300WC	Remington	300 Win Mag		180 gr Accutip BoatTail						
82		PRA243WA	Remington	243 Win		95 gr Accutip BoatTail						
83		PRA223RB	Remington	223 Rem		50 gr Accutip- V Boat Tail						
84		P270WSMC	Remington	270 WSM		150 gr Accutip BoatTail						
85		L223R7	Remington	223 Rem		45 gr JHP						
86		RS300WA	Remington	300 Win Mag		200 gr AFPSP						
87		PRA270WSMC	Remington	270 WSM		150gr AccuTip BoatTail						
88		X30WM2	Federal	300 Win Mag		180 gr Power Point						
89		P270C	Federal	270 Win		150 gr Sierra GameKing BTSP						
90		BH300WMAG	Black Hills	300 Win Mag		190 gr BoatTail Hollow Point						
91		300WGS	Federal	300 Win Mag		150 gr Speer Hot- Cor SP						
92		X270WSM	Winchester	270 WSM		150 gr Power Point						
93		X2704	Winchester	270 Win		150 gr Power Point						
94		X2432	Winchester	243 Win		100 gr Power Point						
95		SBST300	Winchester	300 Win Mag		180 gr Ballistic SilverTip						
96		SBST270SA	Winchester	270 Win		130 gr Ballistic SilverTip						
97		SBST243	Winchester	243 Win		55 gr Ballistic Silvertip						
98												
99		**BO**	Bolt OverRide									
100		**DE**	Doesn't Eject									
101		**SLC**	Stems Left Chamber									
102		**SOR**	Stem Override									
103		**SRC**	Stems Right Chamber									

Test Lab Request Form Instructions

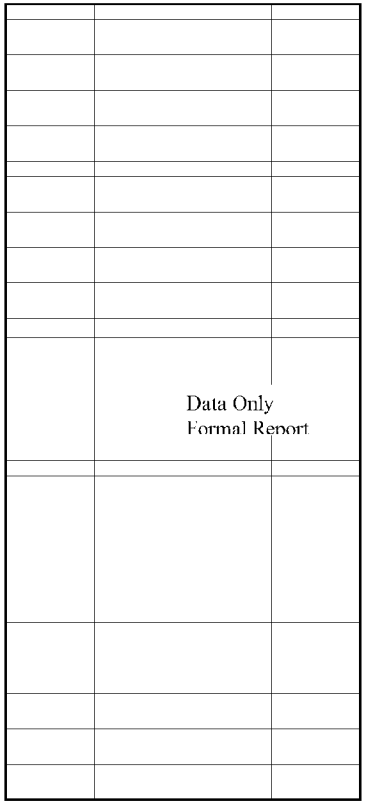
- The TLW request form can be found on the second worksheet (tabs at bottom of the screen) of this file.
- Please fill in all required fields as noted in **red**. Please fill in all other fields if applicable / possible. Instructions for each field will appear when you click on the field. The procedure field is an embedded MS Word object which will allow you to use formatting features not possible in Excel (i.e. paragraphs, bullets, numbering, etc).
- If possible, create your desired data table and/or graph formats in the additional worksheets of this file. This is preferred over extensive written procedures.
- Once the form is completed, save this file on your personal computer using the following format:
  Last name (m/dd/yy)
- Email the file to Phillip Reesor and Jim Snedeker.

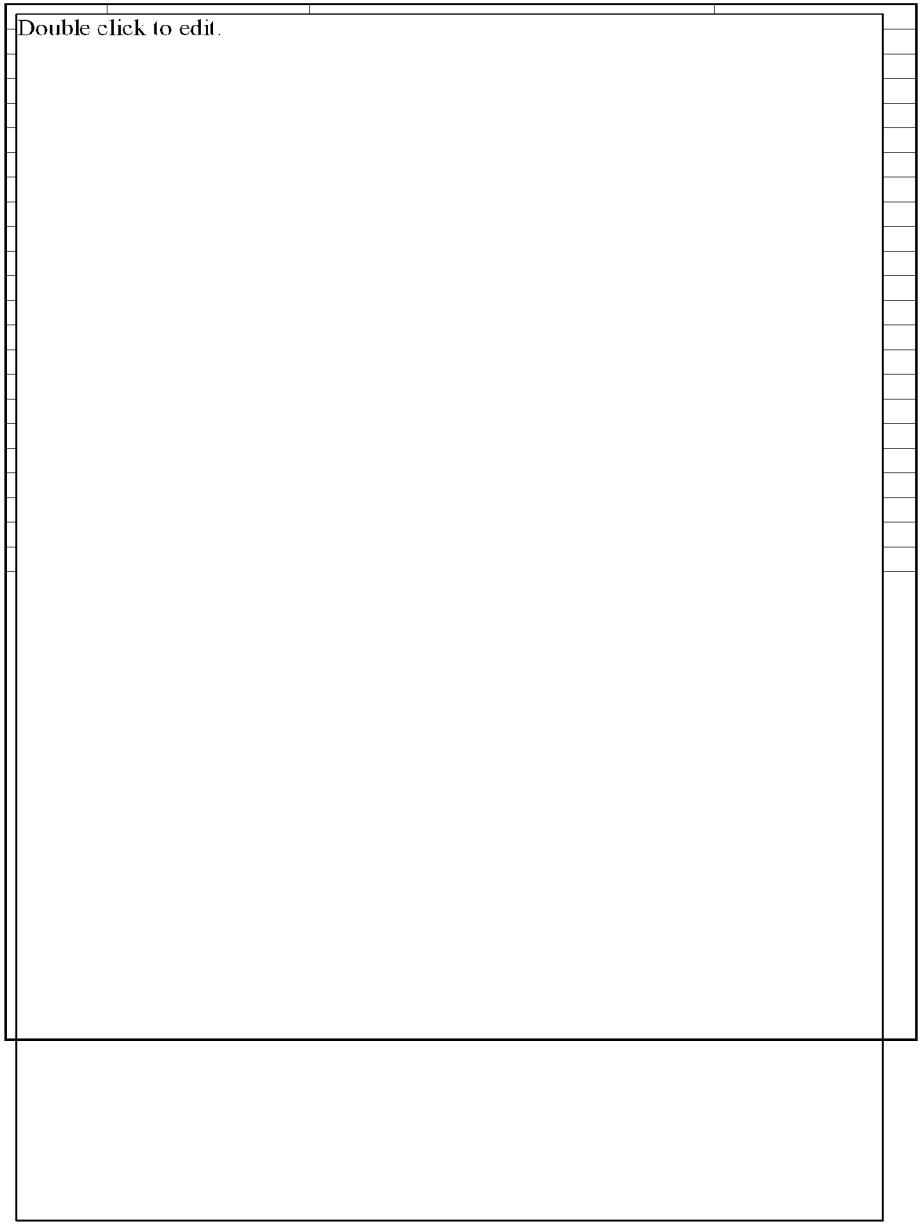
Engineer: VINCE NORTON	**Project #:** 241493 **TLW #:** 2274
Date Submitted: 5/9/2007	**Requested Completion Date:** 6/8/2007
Completion Date Justification:	SCHEDULED COMPLETION DATE FOR PROJECT EET
Test Description:	ASSIST IN CONDUCTING EET ON THE NEW MODEL 770 FIRE CONTROL WITH TRIGGER BLOCK SAFETY
Test Procedure:	PERFORM EET PER THE FOLLOWING INSTRUCTION: 1. 3 FIREARMS TO BE SUPPLIED IN FOLLOWING CALIBERS: a. 243 WIN (YOUTH) b. 30-06 SPRG. c. 300 WIN MAG 2. MEASUREMENT OF COMPONENT PARTS a. CRITICAL DIMENSION 3. MEASUREMENTS OF ASSEMBLIES a. SAFE ON/OFF FORCES b. TRIGGER PULL FORCES (MIN & MAX SETTINGS) c. TRIGGER MOTION (IN SAFE) d. ENGAGEMENT e. OVERTRAVEL 4. FUNCTION CHECK OF FIRE CONTROL ASSEMBLED IN ACTION AND STOCK 5. ACCURACY a. 3 – FIVE SHOT GROUPS PER ON THE 243 AND 30-06 6. FUNCTION AND ENDURANCE a. ALL THREE GUNS TO 500 ROUND 7. INSPECT FIRE CONTROLS AT 100, 300 AND 500 ROUND LEVELS 8. COMPILE DATA AND SUPPLY TO ENGINEER FOR FINAL REPORT ADDITIONAL TESTING 1. PREPARE THE 300 WIN MAG FOR THE DRY CYCLE MACHINE 2. DRY CYCLE TO 10,000 CYCLES 3. INSPECT AND MEASURE FIRE CONTROL AT 1000, 2000, 5000 AND 10,000 ROUND LEVELS 4. DISASSEMBLE AND INSPECT AT 10,000 ROUNDS

Special Requirements:	550 ROUNDS EACH OF 243 WIN, 270 WIN, AND 300 WIN MAG AMMUNITION. BRAND OR MIX IS NOT IMPORTANT.
Supplies Availability:	GUNS AVAILABLE ON OR BEFORE 5/29/07
Results Required:	DATA ONLY

********This section to be completed by Test Lab Manager*******

Assigned To:	Sims, Jonathan	**Start Date:**	
Assigned Date:	6/4/2007	**Completion Date:**	
Comments:			


Data Only
Formal Report


Double click to edit.

Shooter: M. Hammond			
Date: 12Jun07			
Note: Accuracy was shot off of bench at 100 yards			
	Grp. 1	Grp. 2	Grp. 3
30.06	2.25	1.75	1.4
0.243	0.9	0.75	0.875

Note: Dry cycle was completed after endurance testing.					
Caliber: .300 Win. Mag.					
	0 Rds.	1000	2000	5000	10000
Engagement	0.0312	0.0287	0.0284	0.0291	0.0297
Overtravel	0.0089	0.0193	0.0189	0.0206	0.0218
Trigger Movement on Safe	0.0033	0.0052	0.0057	0.006	0.0067
Trigger Pull	4.776	4.023	4.189	4.026	3.564

TLW#2274
Project#241493
Inspection Summary
Note: Trigger Block Safety Screw was secured with Loctite 242. 7lbs. Was applied to trigger to determine trigger movement on Safe.
0 Rds. Initial
Engagement
Overtravel
Trigger Movement on Safe
Trigger Pull w/Dvorak
0 Rds. Recheck after Loctite set up
Engagement
Overtravel
Trigger Movement on Safe
Trigger Pull w/Dvorak
Safe OFF
Safe ON
100 Rds.
Engagement
Overtravel
Trigger Movement on Safe
Trigger Pull w/Dvorak

30.06	.243	.300 Win.Mag.
0.028	0.0285	0.027
0.0153	0.0177	0.0188
0.0034	0.0038	0.0038
4.875	4.865	4.598

0Rds.

30.06	.243	.300 Win.Mag.	.243 FC#2
0.029	0.0262	0.0274	0.0284
0.013	0.0176	0.0176	0.005
0.005	0.0022	0.0026	0.001
4.9	4.7	4.4	4.5
3.6	3.72	3.5	3.92
3.76	3.06	3.92	4.36
3.96	3.58	3.92	3.96
6.26	6.34	7.4	6.2
5.58	6.2	5.86	6.46
5.92	5.82	6	6.26

30.06	.243	.300 Win.Mag.	.243w/FC2
0.0294	Unable	0.0278	0.0307
0.0138	to read.	0.0187	0.0078
0.0063	engag.	0.0025	0.0032
4.417	has moved.	4.181	4.513
	Changed		
	out FC		

300 Rds.
Engagement
Overtravel
Trigger Movement on Safe
Trigger Pull w/Dvorak
500 Rds.
Engagement
Overtravel
Trigger Movement on Safe
Trigger Pull w/Dvorak

30.06	.243w/FC2	.300 Win.Mag.
0.0319	0.0316	0.0282
0.0146	0.0126	0.0192
0.0061	0.0038	0.003
3.831/4.4483	4.636	3.953/4.284

30.06	.243w/FC2	.300 Win.Mag.
0.0327	0.029	0.0312
0.015	0.0191	0.0089
0.0093	0.0041	0.0033
4.764	4.126	4.776

Round Count Before: 0	
Gun #.243	Date:6Jun07
Ammo type:R243W1 Lot#C22RAI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91

42	92
43	93
44	94
45	95
46	96
47	97
48	98
49	99
50	100 81-100 OK Cool Gun
	INSPECT GUN

Round Count Before: 0	
Gun #.243	Date:6Jun07
Ammo type:R243W1 Lot#C22RAI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91

42	92
43	93
44	94
45	95
46	96
47	97
48	98
49	99
50	100 81-100 OK Cool Gun
	INSPECT GUN

Round Count Before: 100	
Gun #.243	Date:7Jun07
Ammo type:R243W1 Lot#C22RAI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91

42	92
43	93
44	94
45	95
46	96
47	97
48	98
49	99
50	100 81-100 OK Cool Gun

Round Count Before: 200	
Gun #.243	Date:8Jun07
Ammo type:R243W1 Lot#C22RAI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91

42	92
43	93
44	94
45	95
46	96
47	97
48	98
49	99
50	100 81-100 OK Cool Gun
	INSPECT GUN

Round Count Before:	
Gun #.243	Date:8Jun07
Ammo type:R243W1 Lot#C22RAI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91

42	92
43	93
44	94
45	95
46	96
47	97
48	98
49	99
50	100 81-100 OK Cool Gun

Round Count Before: 400	
Gun #.243	Date:8Jun07
Ammo type:R243W1 Lot#C22RAI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91

42	92
43	93
44	94
45	95
46	96
47	97
48	98
49	99
50	100 81-100 OK Cool Gun
	INSPECT GUN

Round Count Before: 0	
Gun #30.06	Date:6Jun07
Ammo type:R30065 Lot#B15BBI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91

42	92
43	93
44	94
45	95
46	96
47	97
48	98
49	99
50	100 81-100 OK Cool Gun
	INSPECT GUN

Round Count Before: 100	
Gun #30.06	Date:7Jun07
Ammo type:R30065 Lot#B15BBI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91

42	92
43	93
44	94
45	95
46	96
47	97
48	98
49	99
50	100 81-100 OK Cool Gun

Round Count Before: 200	
Gun #30.06	Date:7Jun07
Ammo type:R30065 Lot#B15BBI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91

42	92
43	93
44	94
45	95
46	96
47	97
48	98
49	99
50	100 81-100 OK Cool Gun
	INSPECT GUN

Round Count Before: 300	
Gun #30.06	Date:7Jun07
Ammo type:R30065 Lot#B15BBI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91

42	92
43	93
44	94
45	95
46	96
47	97
48	98
49	99
50	100 81-100 OK Cool Gun

Round Count Before: 400	
Gun #30.06	Date:7Jun07
Ammo type:R30065 Lot#B15BBI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91

42	92
43	93
44	94
45	95
46	96
47	97
48	98
49	99
50	100 81-100 OK Cool Gun
	INSPECT GUN

Round Count Before: 0	
Gun #.300 Win.Mag.	Date:6Jun07
Ammo type:R300W2 Lot# B17PBI	Shooter:J. Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91

42	92
43	93
44	94
45	95
46	96
47	97
48	98
49	99
50	100 81-100 OK Cool Gun
	INSPECT GUN

Round Count Before: 100	
Gun #.300 Win.Mag.	Date:7Jun07
Ammo type:R300W2 Lot# B17PBI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91

42	92
43	93
44	94
45	95
46	96
47	97
48	98
49	99
50	100 81-100 OK Cool Gun

Round Count Before: 200	
Gun #.300 Win.Mag.	Date:7Jun07
Ammo type:R300W2 Lot# B17PBI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91

42	92
43	93
44	94
45	95
46	96
47	97
48	98
49	99
50	100 81-100 OK Cool Gun
	INSPECT GUN

Round Count Before: 300	
Gun #.300 Win.Mag.	Date:7Jun07
Ammo type:R300W2 Lot# B17PBI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
31	81
32	82
33	83
34	84
35	85
36	86
37	87
38	88
39	89
40 21-40 OK Cool Gun	90
41	91

42	92
43	93
44	94
45	95
46	96
47	97
48	98
49	99
50	100 81-100 OK Cool Gun

Round Count Before: 400	
Gun #.300 Win.Mag.	Date:7Jun07
Ammo type:R300W2 Lot# B17PBI	Shooter:J.Sims
MALFUNCTIONS	MALFUNCTIONS
1	51
2	52
3	53
4	54
5	55
6	56
7	57
8	58
9	59
10	60 41-60 OK Cool Gun
11	61
12	62
13	63
14	64
15	65
16	66
17	67
18	68
19	69
20 1-20 OK Cool Gun	70
21	71
22	72
23	73
24	74
25	75
26	76
27	77
28	78
29	79
30	80 61-80 OK Cool Gun
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34	84
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40 21-40 OK Cool Gun	90
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42	92
43	93
44	94
45	95
46	96
47	97
48	98
49	99
50	100 81-100 OK Cool Gun
	INSPECT GUN

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- Once the form is completed, save this file on your personal computer using the following format:
  Last name (m/dd/yy)

- Email the file to Phillip Reesor and Jim Snedeker.

PERFORM EET PER THE FOLLOWING INSTRUCTION:

1. 3 FIREARMS TO BE SUPPLIED IN FOLLOWING CALIBERS:
    a. 243 WIN (YOUTH)
    b. 30-06 SPRG.
    c. 300 WIN MAG
2. MEASUREMENT OF COMPONENT PARTS
    a. CRITICAL DIMENSION
3. MEASUREMENTS OF ASSEMBLIES
    a. SAFE ON/OFF FORCES
    b. TRIGGER PULL FORCES (MIN & MAX SETTINGS)
    c. TRIGGER MOTION (IN SAFE)
    d. ENGAGEMENT
    e. OVERTRAVEL
4. FUNCTION CHECK OF FIRE CONTROL ASSEMBLED IN ACTION AND STOCK
5. ACCURACY
    a. 3 – FIVE SHOT GROUPS PER ON THE 243 AND 30-06
6. FUNCTION AND ENDURANCE
    a. ALL THREE GUNS TO 500 ROUND
7. INSPECT FIRE CONTROLS AT 100, 300 AND 500 ROUND LEVELS
8. COMPILE DATA AND SUPPLY TO ENGINEER FOR FINAL REPORT

ADDITIONAL TESTING

1. PREPARE THE 300 WIN MAG FOR THE DRY CYCLE MACHINE
2. DRY CYCLE TO 10,000 CYCLES
3. INSPECT AND MEASURE FIRE CONTROL AT 1000, 2000, 5000 AND 10,000 ROUND LEVELS
4. DISASSEMBLE AND INSPECT AT 10,000 ROUNDS

Double click to edit.

Test Lab Request Form Instructions

- The TLW request form can be found on the second worksheet (tabs at bottom of the screen) of this file.

- Please fill in all required fields as noted in **red**. Please fill in all other fields if applicable / possible. Instructions for each field will appear when you click on the field. The procedure field is an embedded MS Word object which will allow you to use formatting features not possible in Excel (i.e. paragraphs, bullets, numbering, etc).

- If possible, create your desired data table and/or graph formats in the additional worksheets of this file. This is preferred over extensive written procedures.

- If the request is for High Speed Video, specify any desired parameters (i.e. frame rate, resolution, etc.) in the "HSV Setup" tab. If not specified, the videographer will document the parameters that they chose to use.

- Once the form is completed, save this file on your personal computer using the following format:

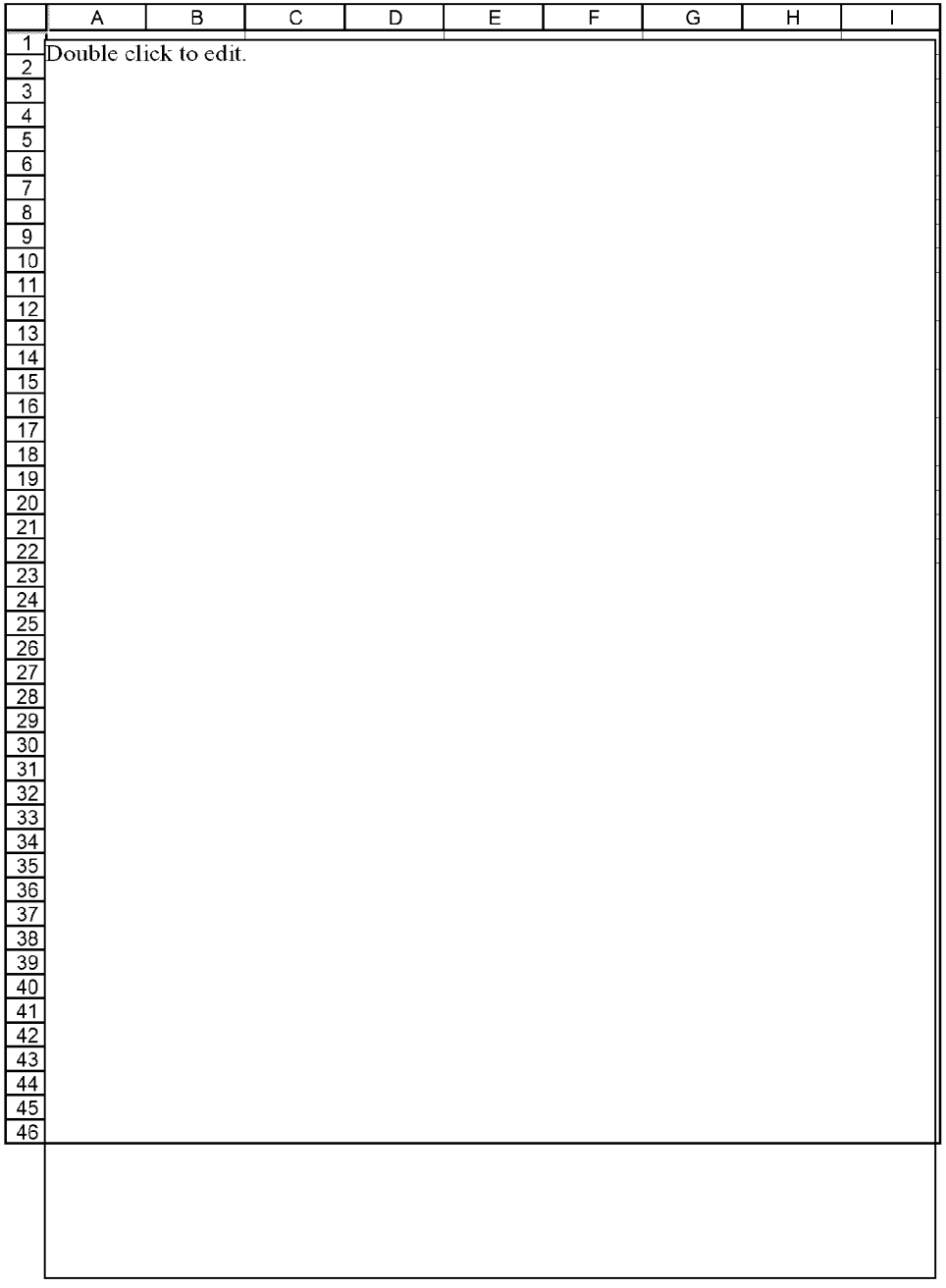
  TLW##### - Brief Description

  Try to keep the description as concise as possible. Your name in the filename is no longer necessary.

- Email the file to Phillip Reesor (primary) and Mark Hammond (secondary). Phillip will return your email with the assigned number and the assignee

	Engineer:	Vince Norton			**Project #:**	241493		**TLW #:**	2355	
	Date Submitted:	8/27/2007						**Requested Completion Date:**	9/21/2007	
	Test Description:	Perform DAT on 15 Remington Model 770 bolt action rifles.								
	Test Procedure:	Perform DAT per flow chart and instructions.								

Special Requirements:		
Supplies Availability:		
Results Required:		
******This section to be completed by Test Lab Manager*****		
Assigned To:	Wade, Jeff	Start Date:
Assigned Date:	8/30/2007	Completion Date:
Comments:		


A
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Double click to edit.

HIGH SPEED VIDEO SETUP RECORD

ARCHIVE: ○ ALL FILES ○ REPRESENTATIVE FILE(S) ◉ NO ARCHIVE

File Name:

TLW 2355 Date:

Camera Operator: Project No.:

File Names:

Convention: TLWNo Description.avi i.e. *[TLW2162 Shot 1 18in bbl GB.avi], [TLW2162 Shot 2 18in bbl GB.avi]*

Purpose of Test:

Camera: ◉ APX-RS ○ 1024PCI ○ Canon 20D Shutter Speed:

Resolution (WxH, pixels): Frame Rate (fps):

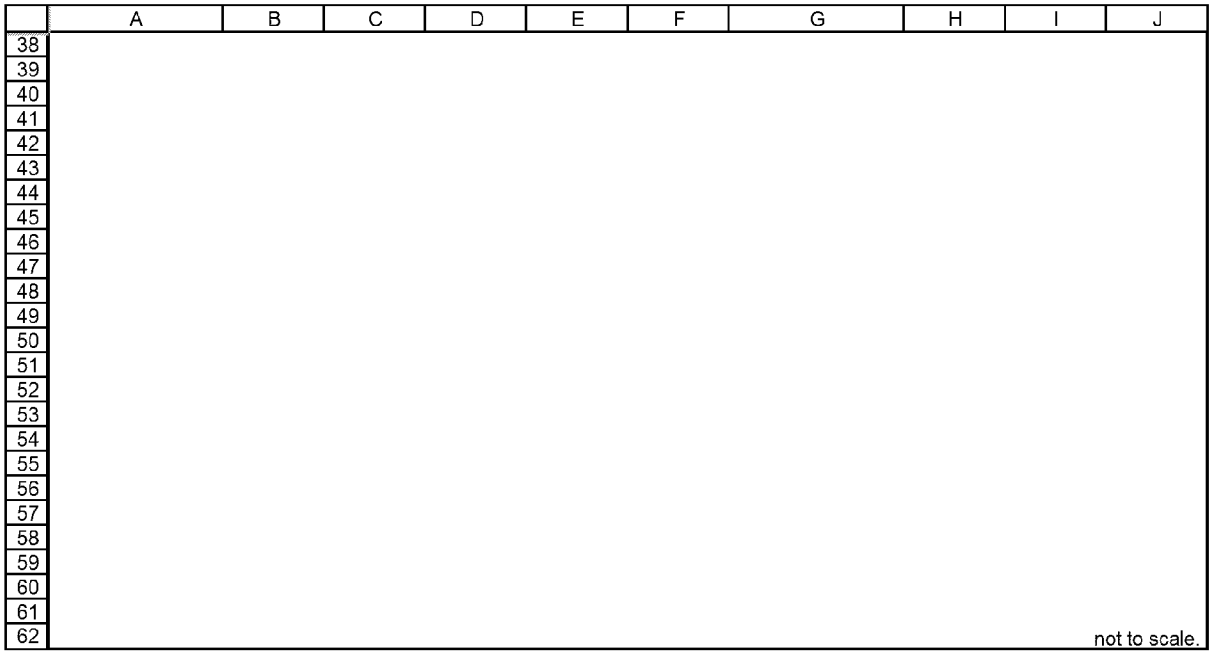
Lens: Type (C or F): f-stop used:

Focal Length (mm): zoom used (mm):

Equipment Height (in. above or below subject, no entry = in-plane with subject)

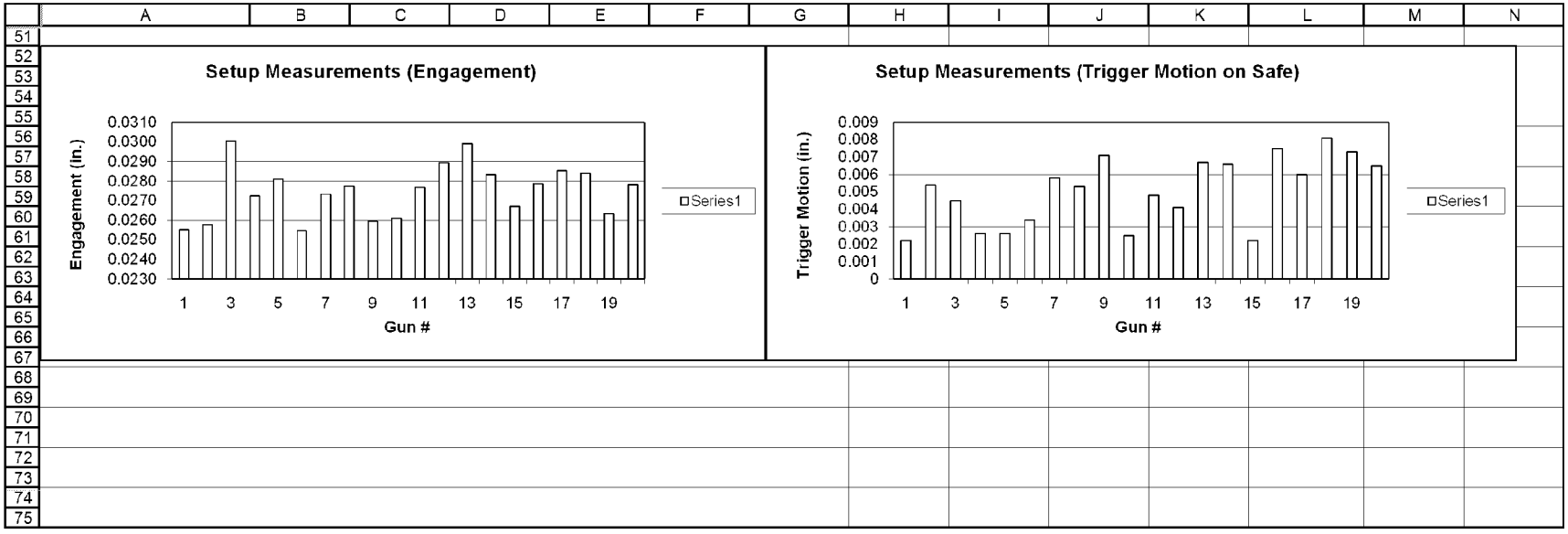
Equipment	*Position*	*Target*	*Symbol*	*Equipment*	*Position*	*Target*	*Symbol*
Camera			C				
L1 1000W			L1				
L2 1000W			L2				
L3 8-Bulb PAL			L3				

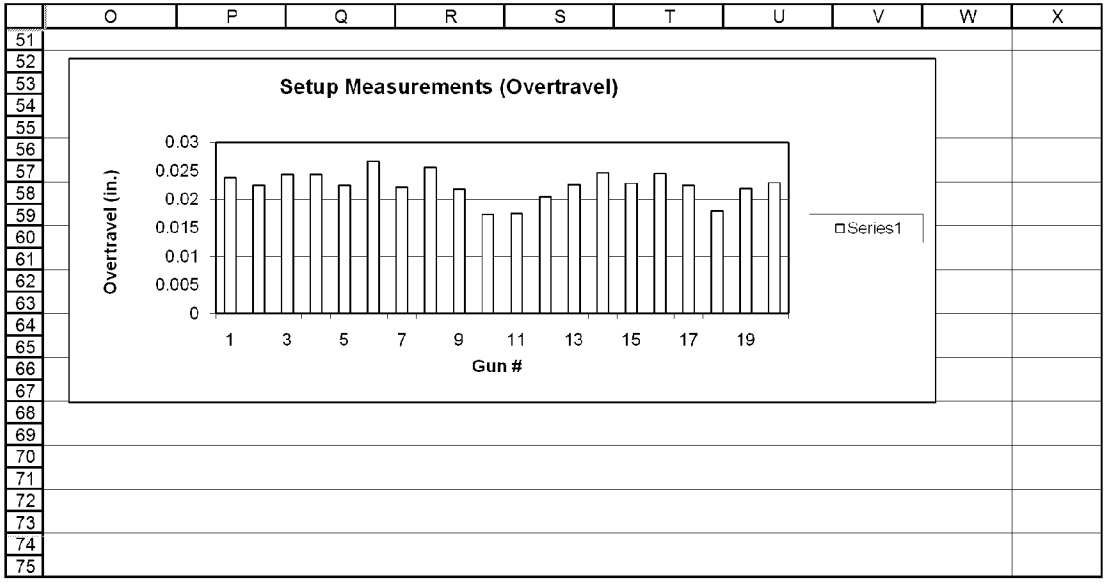
Set-up Diagram (w/linear dimensions)


not to scale.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	TLW 2355 - A (Measurements)													
2	Date: September 14, 2007													
3	Technician: Steve Wade													
4	Reference TLW 2370 thru 2374 for critical part inspection data													
5														
6	INITIAL SETUP													
7	Date: October 24, 2007 (A11-A20), November 5, 2007 (A6-A10), November 9, 2007 (A1-A5)													
8	Technician: Jeff Wade/Vince Norton													
9														
10	Gun I.D. #	A-1	A-2	A-3	A-4	A-5	A-6	A-7	A-8	A-9	A-10	A-11	A-12	A-13
11	Gun Serial #	71378965	71378778	71378875	71378780	71378750	71401901	71402850	71403009	71403014	71403158	71288216	71388277	71389036
12	Caliber	243 WIN	243 WIN	243 WIN	243 WIN	243 WIN	7mm RM	7mm RM	7mm RM	7mm RM	7mm RM	30-06	30-06	30-06
13	Engagement	0.0255	0.0277	0.0252	0.0263	0.0268	0.0251	0.0260	0.0257	0.0268	0.0253	0.0275	0.0279	0.0278
14	Trigger Motion on Safe	0.0037	0.0035	0.0054	0.0032	0.0044	0.0040	0.0048	0.0041	0.0026	0.0036	0.0050	0.0023	0.0054
15	Overtravel	0.022	0.022	0.025	0.022	0.021	0.024	0.023	0.026	0.021	0.017	0.019	0.021	0.024
16	Trigger Pull	4.622	5.110	5.027	4.532	5.055	4.699	4.532	4.464	4.537	4.836	5.201	4.271	3.710
17	Notes:	1. Bolts with new bolt head and firing pin were difficult to open after firing. Bolt for A-11 Bound up and had to be beat open twice.												
18		Bolt was replaces with a broken in bolt on the third try.												
19														
20	TLW 2355 - B (Heaspace/Proof/Headspace)													
21	Date: October 25, 2007 (A11-A20), November 7, 2007 (A6-A10)													
22	Technician: Jeff Wade													
23														
24	Gun I.D. #	A-1	A-2	A-3	A-4	A-5	A-6	A-7	A-8	A-9	A-10	A-11	A-12	A-13
25	Headspace	4	3	4	4	4	4	4	4	4	4	4	5	3
26	Proof	x	x	x	x	x	x	x	x	x	x	x	x	x
27	Headspace	4	3	4	4	4	5	4	5	4	4	5	5	4
28	Notes:	1. Headspace values are all MIN +												
29														
30	TLW 2355 - C (Measurements of Assemblies)													
31	Date: October 26, 2007 (A11-A20), November 8, 2007 (A6-A10)													
32	Technician: Jeff Wade/Bob Lee													
33														
34	Gun I.D. #	A-1	A-2	A-3	A-4	A-5	A-6	A-7	A-8	A-9	A-10	A-11	A-12	A-13
35	Engagment 1	0.0254	0.0260	0.0301	0.0271	0.0281	0.0256	0.0271	0.0275	0.0259	0.0260	0.0282	0.0289	0.0297
36	Engagment 2	0.0257	0.0257	0.0300	0.0275	0.0282	0.0253	0.0273	0.0279	0.0260	0.0264	0.0275	0.0288	0.0299
37	Engagment 3	0.0255	0.0256	0.0300	0.0271	0.028	0.0255	0.0276	0.0278	0.0260	0.0259	0.0273	0.0291	0.0301
38	Engagment Avg	0.0255	0.0258	0.0300	0.0272	0.0281	0.0255	0.0273	0.0277	0.0260	0.0261	0.0277	0.0289	0.0299
39	Trigger Motion on Safe	0.0022	0.0054	0.0045	0.0026	0.0026	0.0034	0.0058	0.0053	0.0071	0.0025	0.0048	0.0041	0.0067
40	Overtravel	0.0238	0.0224	0.0243	0.0243	0.0224	0.0267	0.0221	0.0256	0.0218	0.0173	0.0175	0.0204	0.0225
41	Trigger Pull	5.727	5.963	5.984	5.423	5.817	4.597	4.687	4.682	4.586	4.564	5.377	4.647	5.583
42	Safety On Force 1	5.630	4.610	4.440	6.180	5.775	4.590	4.335	4.900	4.845	4.630	3.135	3.400	3.250
43	Safety On Force 2	5.550	4.720	4.435	5.600	5.190	4.650	4.290	4.990	4.875	4.580	3.135	3.390	3.290
44	Safety On Force 3	5.355	4.495	4.530	5.820	5.840	4.405	4.215	4.980	4.815	4.470	3.145	3.410	3.270
45	Safety On Force Avg	5.512	4.608	4.468	5.867	5.602	4.548	4.280	4.957	4.845	4.560	3.138	3.400	3.270
46	Safety Off Force 1	2.675	2.975	2.765	2.870	3.085	3.330	3.180	3.380	3.125	2.905	3.630	3.715	4.105
47	Safety Off Force 2	2.385	2.990	2.835	2.835	3.130	3.290	3.210	3.665	3.065	2.880	3.620	3.725	4.125
48	Safety Off Force 3	2.380	2.690	2.975	2.790	3.145	3.525	3.450	3.360	3.050	2.845	3.635	3.690	4.100
49	Safety Off Force Avg	2.480	2.885	2.858	2.832	3.120	3.382	3.280	3.468	3.080	2.877	3.628	3.710	4.110
50	Safety Function Test	x	x	x	x	x	x	x	x	x	x	x	x	x

	O	P	Q	R	S	T	U	V	W	X
1										
2										
3										
4										
5										
6										
7										
8										
9										
10	A-14	A-15	A-16	A-17	A-18	A-19	A-20			
11	71389063	71392364	71397532	71398288	71398292	71398631	71398641			
12	30-06	30-06	30-06	30-06	30-06	30-06	30-06			
13	0.0254	0.0277	0.0273	0.0267	0.0270	0.0261	0.0271			
14	0.0049	0.0026	0.0062	0.0031	0.0067	0.0052	0.0061			
15	0.024	0.022	0.025	0.025	0.025	0.022	0.022			
16	3.761	4.584	4.676	4.670	4.650	4.671	4.317			
17										
18										
19										
20										
21										
22										
23										
24	A-14	A-15	A-16	A-17	A-18	A-19	A-20			
25	5	5	4	3	3	3	3			
26	x	x	x	x	x	x	x			
27	5	6	4	4	3	4	4			
28										
29										
30										
31										
32										
33										
34	A-14	A-15	A-16	A-17	A-18	A-19	A-20			
35	0.0282	0.0268	0.0279	0.0287	0.0282	0.0261	0.0281			
36	0.0282	0.0267	0.0282	0.0283	0.0286	0.0263	0.0276			
37	0.0286	0.0266	0.0275	0.0286	0.0284	0.0266	0.0278			
38	0.0283	0.0267	0.0279	0.0285	0.0284	0.0263	0.0278			
39	0.0066	0.0022	0.0075	0.006	0.0081	0.0073	0.0065			
40	0.0247	0.0228	0.0245	0.0224	0.018	0.0219	0.0229			
41	5.253	5.024	5.842	4.568	5.162	5.065	5.566			
42	3.590	2.925	3.000	3.275	3.210	2.955	3.135			
43	3.655	3.170	3.205	3.250	3.315	2.950	3.145			
44	3.540	3.360	3.175	3.285	3.300	2.975	3.140			
45	3.595	3.152	3.127	3.270	3.275	2.960	3.140			
46	3.615	4.085	4.400	4.970	5.005	3.665	4.005			
47	3.625	3.975	4.225	4.995	5.450	3.800	4.150			
48	3.555	3.990	4.010	5.015	5.380	3.735	4.110			
49	3.598	4.017	4.212	4.993	5.278	3.733	4.088			
50	x	x	x	x	x	x	x			


Setup Measurements (Engagement)
Engagement (In.)
0.0310
0.0300
0.0290
0.0280
0.0270
0.0260
0.0250
0.0240
0.0230
1 3 5 7 9 11 13 15 17 19
Gun #
Series1
Setup Measurements (Trigger Motion on Safe)
Trigger Motion (in.)
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
1 3 5 7 9 11 13 15 17 19
Gun #
Series1

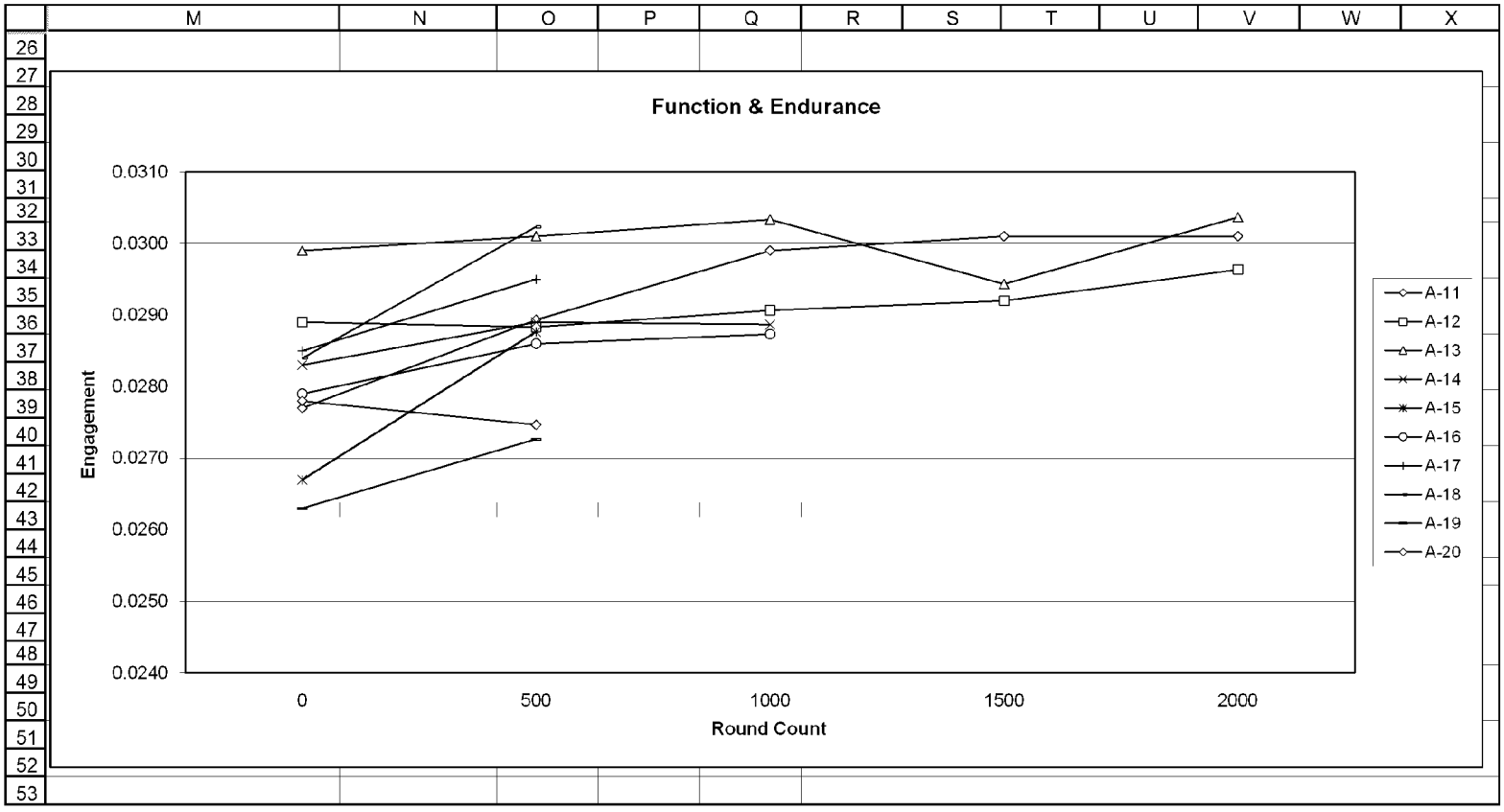

Setup Measurements (Overtravel)
Overtravel (in.)
0.03
0.025
0.02
0.015
0.01
0.005
0
1
3
5
7
9
11
13
15
17
19
Gun #
Series1

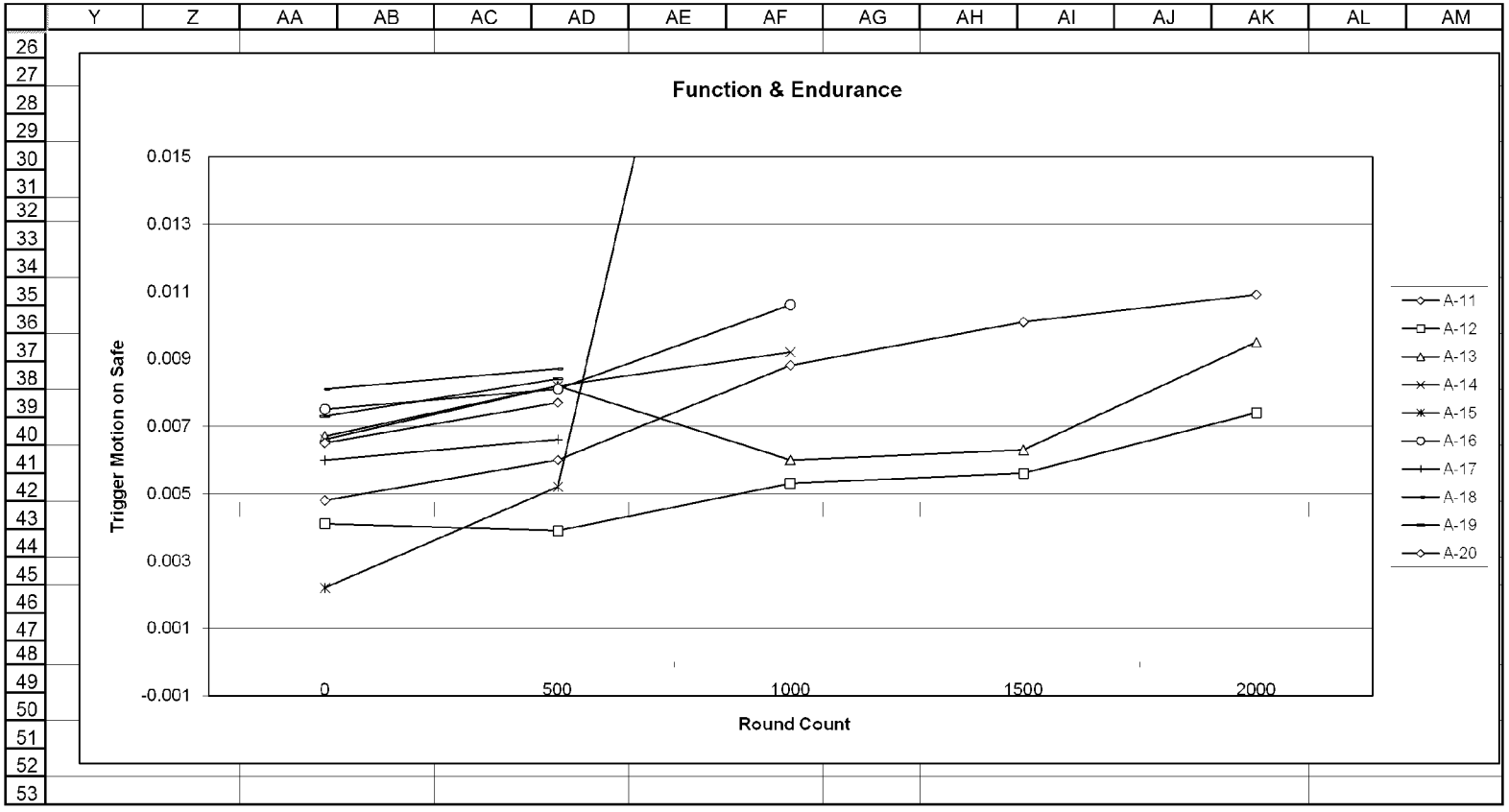
	A	B	C	D	E	F	G	H	I	J	K
1	TLW 2355 - F (Function & Endurance)										
2	Date: 11/13/07										
3	Technician: Jeff Wade & Bob Lee										
4	Gun I.D. #	A-11	A-12	A-13	A-14	A-15	A-16	A-17	A-18	A-19	A-20
5	Total Round Level	2000	2000	2000	1000	1000	1000	500	500	500	500
6	Malfunctions	0	2	2	0	0	0	2	0	0	1
7											
8	*NOTES:*										
9	**All guns** - Locking lug hitting tip of round in magazine during ejection										
10	**A-12** - 2 Missfires										
11	**A-13** - Sear did not fall on two occations. SLS receiver inserts could "pinch" sear and cause it to not fall.										
12	OD of the receiver insert was sanded to eliminate binding. Problem went away.										
13	**A-15** - Engagement went high out of viewing window and had to be reset.										
14	Trigger pull went low out of spec and trigger motion on safe went out of spec.										
15	**A-16** - Magazine release lever broke at 720 rounds.										
16	**A-17** - 2 Missfires										
17	**A-20** - 1 Missfire										

	A	B	C	D	E	F	G	H	I	J	K	L
1	TLW 2355 - G (Inspection)											
2												
3	Inital measurements for reference											
4	Gun I.D. #	A-11	A-12	A-13	A-14	A-15	A-16	A-17	A-18	A-19	A-20	
5	Round Level	0	0	0	0	0	0	0	0	0	0	
6	Engagment 1	0.0282	0.0289	0.0297	0.0282	0.0268	0.0279	0.0287	0.0282	0.0261	0.0281	
7	Engagment 2	0.0275	0.0288	0.0299	0.0282	0.0267	0.0282	0.0283	0.0286	0.0263	0.0276	
8	Engagment 3	0.0273	0.0291	0.0301	0.0286	0.0266	0.0275	0.0286	0.0284	0.0266	0.0278	
9	Engagment Avg	0.0277	0.0289	0.0299	0.0283	0.0267	0.0279	0.0285	0.0284	0.0263	0.0278	
10	Trigger Motion on Safe	0.0048	0.0041	0.0067	0.0066	0.0022	0.0075	0.0060	0.0081	0.0073	0.0065	
11	Overtravel	0.0175	0.0204	0.0225	0.0247	0.0228	0.0245	0.0224	0.018	0.0219	0.0229	
12	Trigger Pull	5.377	4.647	5.583	5.253	5.024	5.842	4.568	5.162	5.065	5.566	
13												
14												
15	*Torque takedown screws to 50 in*lbs											
16												
17	Date: 10/31/07											
18	Technician: Bob Lee\Jeff Wade											
19	Gun I.D. #	A-11	A-12	A-13	A-14	A-15	A-16	A-17	A-18	A-19	A-20	
20	Round Level	500	500	500	500	500	500	500	500	500	500	
21	Headspace	0.005	0.005	0.005	0.005	0.006	0.005	0.006	0.004	0.005	0.004	
22	Engagement 1	0.0288	0.0290	0.0302	0.0287	0.0290	0.0288	0.0296	0.0309	0.0271	0.0276	
23	Engagement 2	0.0292	0.0287	0.0301	0.0293	0.0290	0.0284	0.0294	0.0301	0.0275	0.0271	
24	Engagement 3	0.0288	0.0288	0.0300	0.0287	0.0283	0.0286	0.0295	0.0297	0.0272	0.0277	
25	Engagement Avg	0.0289	0.0288	0.0301	0.0289	0.0288	0.0286	0.0295	0.0302	0.0273	0.0275	

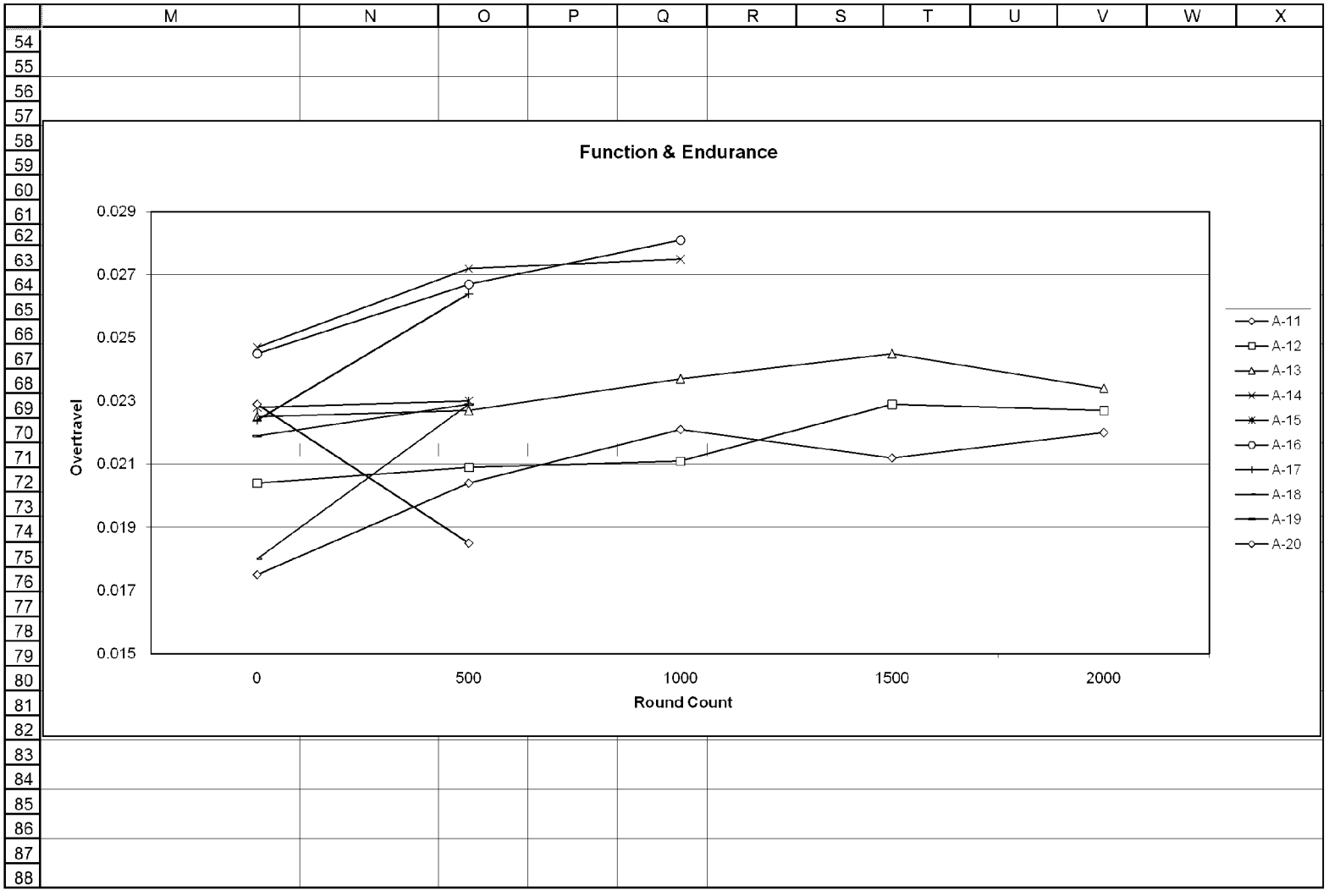
	M	N	O	P	Q	R	S	T	U	V	W	X
1												
2												
3	Data Summary											
4	Gun I.D. #	Round Level	A-11	A-12	A-13	A-14	A-15	A-16	A-17	A-18	A-19	A-20
5	Engagment	0	0.0277	0.0289	0.0299	0.0283	0.0267	0.0279	0.0285	0.0284	0.0263	0.0278
6		500	0.0289	0.0288	0.0301	0.0289	0.0288	0.0286	0.0295	0.0302	0.0273	0.0275
7		1000	0.0299	0.0291	0.0303	0.0289		0.0287				
8		1500	0.0301	0.0292	0.0294							
9		2000	0.0301	0.0296	0.0304							
10	Trigger Motion on Safe	0	0.0048	0.0041	0.0067	0.0066	0.0022	0.0075	0.0060	0.0081	0.0073	0.0065
11		500	0.0060	0.0039	0.0082	0.0082	0.0052	0.0081	0.0066	0.0087	0.0084	0.0077
12		1000	0.0088	0.0053	0.0060	0.0092	0.0349	0.0106				
13		1500	0.0101	0.0056	0.0063							
14		2000	0.0109	0.0074	0.0095							
15	Overtravel	0	0.0175	0.0204	0.0225	0.0247	0.0228	0.0245	0.0224	0.018	0.0219	0.0229
16		500	0.0204	0.0209	0.0227	0.0272	0.0230	0.0267	0.0264	0.0229	0.0229	0.0185
17		1000	0.0221	0.0211	0.0237	0.0275		0.0281				
18		1500	0.0212	0.0229	0.0245							
19		2000	0.022	0.0227	0.0234							
20	Trigger Pull	0	5.377	4.647	5.583	5.253	5.024	5.842	4.568	5.162	5.065	5.566
21		500	4.512	4.431	5.377	4.840	4.592	4.726	4.422	4.579	4.579	5.001
22		1000	4.600	4.190	4.670	4.868	3.802	4.670				
23		1500	4.791	4.726	5.361							
24		2000	4.450	4.346	5.416							
25												

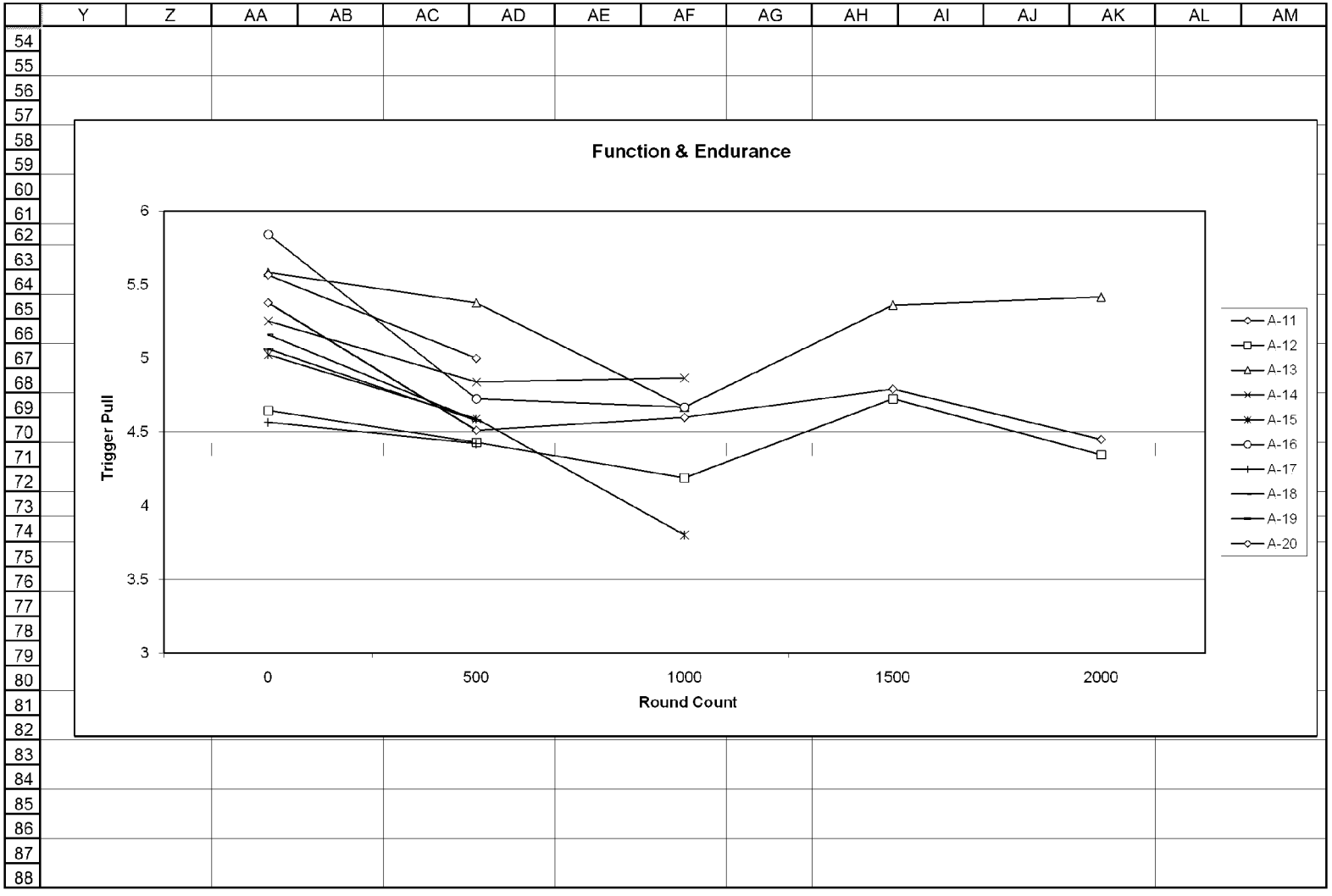
	A	B	C	D	E	F	G	H	I	J	K	L
26	Trigger Motion on Safe	0.0060	0.0039	0.0082	0.0082	0.0052	0.0081	0.0066	0.0087	0.0084	0.0077	
27	Overtravel	0.0204	0.0209	0.0227	0.0272	0.0230	0.0267	0.0264	0.0229	0.0229	0.0185	
28	Trigger Pull	4.512	4.431	5.377	4.840	4.592	4.726	4.422	4.579	4.579	5.001	
29	*All headspace dimensions are MIN +											
30												
31	Date: 11/9/07											
32	Technician: Bob Lee/Jeff Wade											
33	Gun I.D. #	A-11	A-12	A-13	A-14	A-15	A-16					
34	Round Level	1000	1000	1000	1000	1000	1000					
35	Headspace	0.005	0.005	0.005	0.005	0.006	0.005					
36	Engagement 1	0.0299	0.0292	0.0304	0.0289	*OW	0.0289					
37	Engagement 2	0.0300	0.0290	0.0302	0.0289	*OW	0.0286					
38	Engagement 3	0.0298	0.0290	0.0304	0.0288	*OW	0.0287					
39	Engagement Avg	0.0299	0.02907	0.03033	0.02887		0.02873					
40	Trigger Motion on Safe	0.0088	0.0053	0.0060	0.0092	0.0349	0.0106					
41	Overtravel	0.0221	0.0211	0.0237	0.0275	*OS	0.0281					
42	Trigger Pull	4.600	4.190	4.670	4.868	3.802	4.670					
43	*OW - Out of viewing window											
44	*OS - Off screen											
45	Engagement on A-15 was reset to .0254											
46												
47	Date: 11/12/07											
48	Technician: Bob Lee/Jeff Wade											
49	Gun I.D. #	A-11	A-12	A-13								
50	Round Level	1500	1500	1500								
51	Headspace	0.006	0.005	0.005								
52	Engagement 1	0.0302	0.0293	0.0293								
53	Engagement 2	0.0301	0.0292	0.0295								


Function & Endurance
Engagement
0.0310
0.0300
0.0290
0.0280
0.0270
0.0260
0.0250
0.0240
0
500
1000
1500
2000
Round Count
A-11
A-12
A-13
A-14
A-15
A-16
A-17
A-18
A-19
A-20

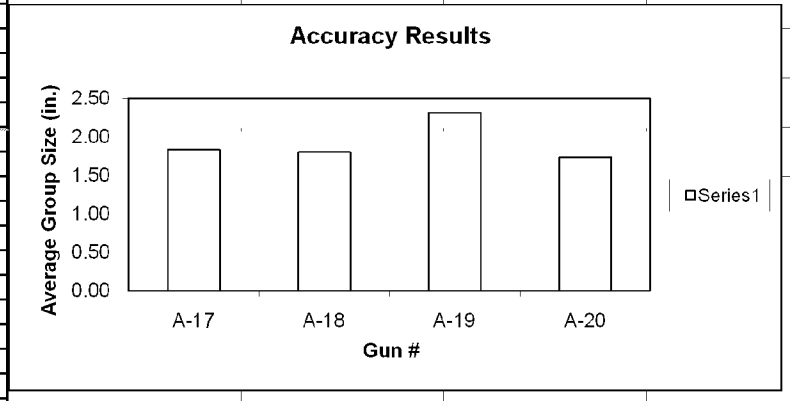

Function & Endurance
Trigger Motion on Safe
0.015
0.013
0.011
0.009
0.007
0.005
0.003
0.001
-0.001
0
500
1000
1500
2000
Round Count
A-11
A-12
A-13
A-14
A-15
A-16
A-17
A-18
A-19
A-20

	A	B	C	D	E	F	G	H	I	J	K	L
54	Engagement 3	0.0300	0.0291	0.0295								
55	Engagement Avg	0.0301	0.0292	0.02943								
56	Trigger Motion on Safe	0.0101	0.0056	0.0063								
57	Overtravel	0.0212	0.0229	0.0245								
58	Trigger Pull	4.791	4.726	5.361								
59	Notes: Side plate screw loose on A-12. Retightened											
60												
61	Date: 11/14/07											
62	Technician: Bob Lee/Jeff Wade											
63	Gun I.D. #	A-11	A-12	A-13								
64	Round Level	2000	2000	2000								
65	Headspace	0.006	0.005	0.005								
66	Engagement 1	0.0301	0.0296	0.0303								
67	Engagement 2	0.0302	0.0297	0.0303								
68	Engagement 3	0.0300	0.0296	0.0305								
69	Engagement Avg	0.0301	0.02963	0.03037								
70	Trigger Motion on Safe	0.0109	0.0074	0.0095								
71	Overtravel	0.022	0.0227	0.0234								
72	Trigger Pull	4.450	4.346	5.416								
73												
74	**RETEST OF A-15**											
75	Date: 11/16/07											
76	Technician: Jeff Wade											
77	Gun I.D. #	A-15	A-15	A-15	A-15							
78	Round Level	start	1100	reset	1200							
79	Engagement	0.0286	0.0351	0.0273	*OW							
80	Trigger Motion on Safe	0.0078	0.0128	0.0078	N/A							
81	Overtravel	0.0276	0.0253	0.0253	N/A							
82	Trigger Pull	4.548	4.179	4.594	3.601							
83	*OW - Out of viewing window											
84												
85	11/19/07 - fire control was disassembled and inspected. No											
86	black max loctite was on the adjustment screws. Lack of											
87	black max loctite was the likely contributor to the adjustment											
88	screws moving during function & endurance. VBN											


Function & Endurance
Overtravel
0.029
0.027
0.025
0.023
0.021
0.019
0.017
0.015
0
500
1000
1500
2000
Round Count
A-11
A-12
A-13
A-14
A-15
A-16
A-17
A-18
A-19
A-20


Function & Endurance
Trigger Pull
6
5.5
5
4.5
4
3.5
3
0
500
1000
1500
2000
Round Count
A-11
A-12
A-13
A-14
A-15
A-16
A-17
A-18
A-19
A-20

	A	B	C	D	E	F	G
1	TLW 2355 - E (Accuracy)						
2	Date: 11/15/07						
3	Technician: Jonathan Sims						
4							
5	Gun I.D. #	A-17	A-18	A-19	A-20		
6	Caliber	30-06	30-06	30-06	30-06		
7	Group #1	1.60	1.45	2.45	2.20		
8	Group #2	2.10	1.70	2.10	2.00		
9	Group #3	1.80	2.25	2.40	1.00		
10	Group Average	1.83	1.80	2.32	1.73		
11							
12	Three - Five shot groups per gun						
13	*All guns were shot using Remington Express Core-Lokt, 180 GR R30065						
14	Lot #D29 HB1						
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							



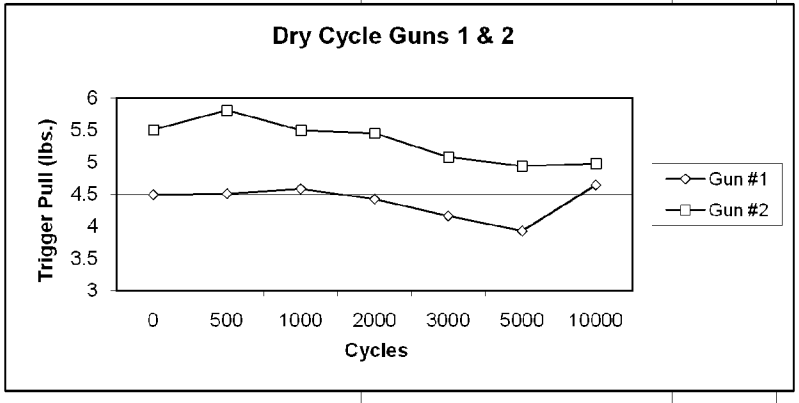
TLW 2355 - Q (Dry Cycle)

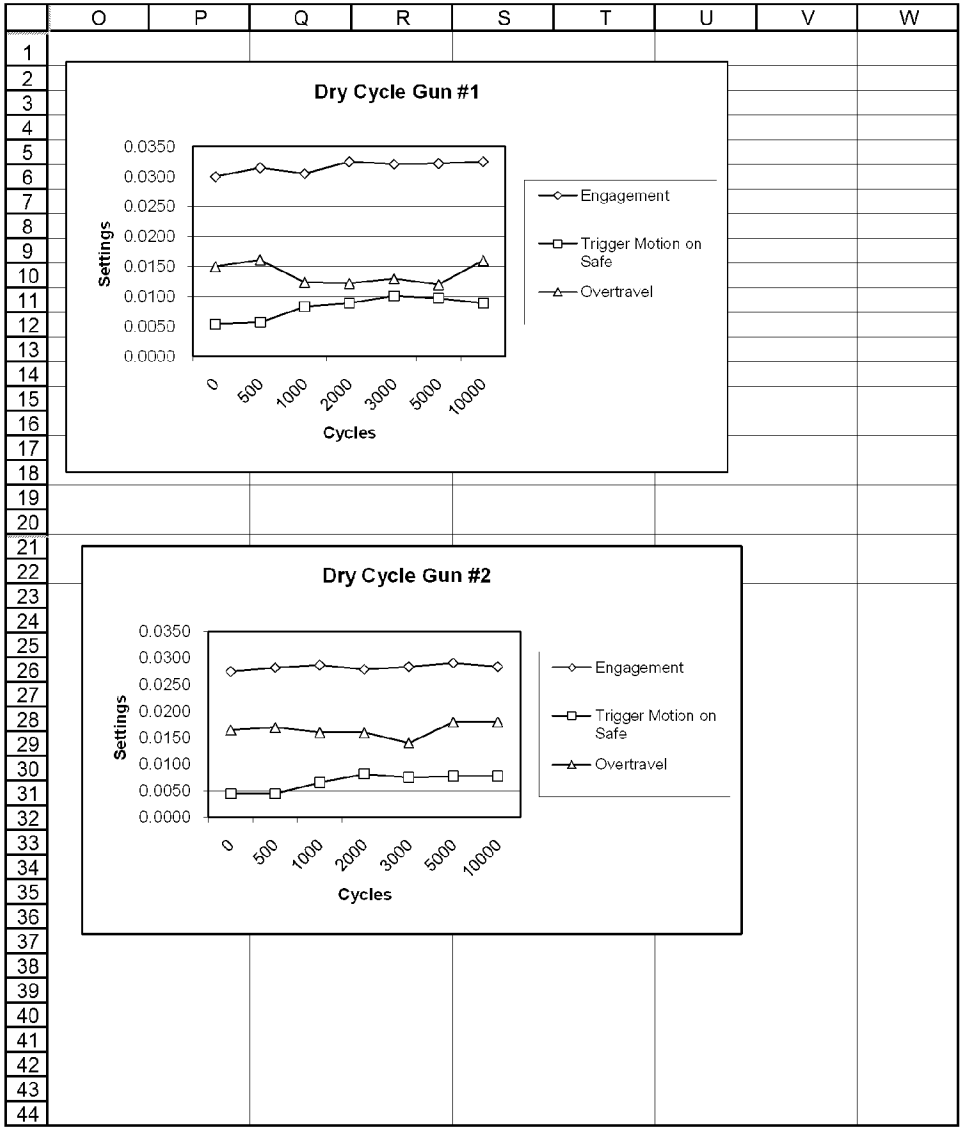
Date: October 26, 2007

Technician: Cody Greenwell/Vince Norton

Gun I.D. #	1						
Serial #	71250971						
Cycles	0	500	1000	2000	3000	5000	10000
Engagment	0.0300	0.0315	0.0305	0.0325	0.0321	0.0322	0.0325
Trigger Motion on Safe	0.0054	0.0057	0.0083	0.0089	0.0101	0.0097	0.0089
Overtravel	0.015	0.0161	0.0124	0.0122	0.013	0.012	0.016
Trigger Pull	4.498	4.511	4.589	4.429	4.165	3.929	4.647

Gun I.D. #	2						
Serial #	71250948						
Cycles	0	500	1000	2000	3000	5000	10000
Engagment	0.0275	0.0282	0.0287	0.0279	0.0284	0.0291	0.0284
Trigger Motion on Safe	0.0045	0.0045	0.0066	0.0082	0.0076	0.0078	0.0078
Overtravel	0.0165	0.017	0.016	0.016	0.014	0.018	0.018
Trigger Pull	5.509	5.814	5.499	5.454	5.084	4.943	4.981



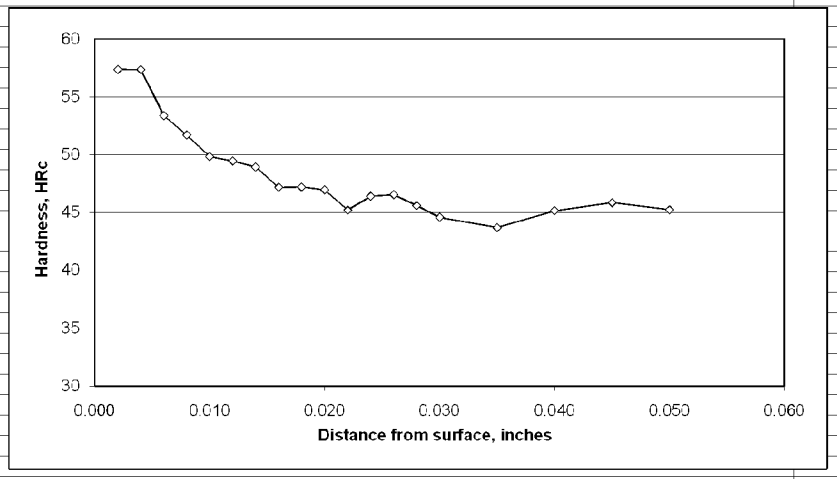

Dry Cycle Gun #1
0.0350
0.0300
0.0250
0.0200
0.0150
0.0100
0.0050
0.0000
Settings
0
500
1000
2000
3000
5000
10000
Cycles
Engagement
Trigger Motion on Safe
Overtravel
Dry Cycle Gun #2
0.0350
0.0300
0.0250
0.0200
0.0150
0.0100
0.0050
0.0000
Settings
0
500
1000
2000
3000
5000
10000
Cycles
Engagement
Trigger Motion on Safe
Overtravel

	A	B	C	D	E	F	G	H	I	J	K
1	TLW 2355 - M (Jar-Off)										
2	Date: November 9, 2007										
3	Technician: Jeff Wade										
4	Gun I.D. #	A-1	A-2	A-3	A-4	A-5	A-6	A-7	A-8	A-9	A-10
5	Gun Serial #	71378965	71378778	71378875	71378780	71378750	71401901	71402850	71403009	71403014	71403158
6	Caliber	243 WIN	243 WIN	243 WIN	243 WIN	243 WIN	7mm RM	7mm RM	7mm RM	7mm RM	7mm RM
7	Engagement at start	0.0255	0.0258	0.0259	0.0259	0.026	0.0255	0.0273	0.0277	0.0260	0.0261
8	Engagement at end	0.0253	0.0256	0.0256	0.0259	N/A	0.0253	0.0280	0.0280	0.0263	0.0287
9	Trigger Pull at start	4.552	4.58	4.591	4.582	4.582	4.597	4.584	4.682	4.586	4.564
10	Trigger Pull at end	4.586	5.289	4.570	4.572	4.16	4.610	3.710	4.609	4.557	3.086
11	SAAMI Jar-Off (2355-M)	Pass	Pass	Pass	Pass	*Fail	Pass	*Fail	Pass	Pass	*Fail
12	*A-5, A-7 & A-10 - Failed Barrel Horizontal, Bottom of Stock Down because of trigger pull out of spec low										
13	Trigger pull was reset to specification and retested										
14											
15	**RETEST**										
16	Date: November 9, 2007										
17	Technician: Jeff Wade										
18	Gun I.D. #	A-5	A-7	A-10							
19	Gun Serial #	71378750	71402850	71403158							
20	Caliber	243 WIN	7mm RM	7mm RM							
21	Engagement at start	0.0258	0.0280	0.0287							
22	Engagement at end	0.0256	0.0281	0.0283							
23	Trigger Pull at start	4.589	4.636	4.806							
24	Trigger Pull at end	4.291	4.401	4.645							
25	SAAMI Jar-Off (2355-M)	Pass	Pass	Pass							
26											
27											
28	TLW 2355 - N (Rotation)										
29	Date: November 9, 2007										
30	Technician: Jeff Wade										
31	Gun I.D. #	A-1	A-2	A-3	A-4	A-5	A-6	A-7	A-8	A-9	A-10
32	Gun Serial #	71378965	71378778	71378875	71378780	71378750	71401901	71402850	71403009	71403014	71403158
33	Caliber	243 WIN	243 WIN	243 WIN	243 WIN	243 WIN	7mm RM	7mm RM	7mm RM	7mm RM	7mm RM
34	Engagement at start	0.0253	0.0256	0.0256	0.0259	0.0256	0.0253	0.0281	0.028	0.0263	0.0283
35	Engagement at end	0.0252	0.0253	0.0256	0.0266	0.0255	0.0253	0.0282	0.0281	0.0263	0.0277
36	Trigger Pull at start	4.586	4.659	4.57	4.572	4.593	4.610	4.748	4.609	4.557	4.645
37	Trigger Pull at end	4.889	4.558	4.406	4.564	4.605	4.660	4.652	4.691	4.615	4.973
38	SAAMI Rotation (2355-N)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
39											
40											
41	TLW 2355 - O (Drop)										
42	Date: November 9, 2007										
43	Technician: Jeff Wade										
44	Gun I.D. #	A-1	A-2	A-3	A-4	A-5	A-6	A-7	A-8	A-9	A-10
45	Gun Serial #	71378965	71378778	71378875	71378780	71378750	71401901	71402850	71403009	71403014	71403158

	A	B	C	D	E	F	G	H	I	J	K
46	Caliber	243 WIN	243 WIN	243 WIN	243 WIN	243 WIN	7mm RM	7mm RM	7mm RM	7mm RM	7mm RM
47	Engagement at start	0.0252	0.0253	0.0256	0.0255	0.0255	0.0253	0.0282	0.0281	0.0263	0.0277
48	Engagement at end	0.0253	0.0252	0.0259	0.0256	0.0257	N/A	0.0281	0.0280	0.0262	N/A
49	Trigger Pull at start	4.571	4.558	4.556	4.564	4.605	4.660	4.652	4.691	4.615	4.579
50	Trigger Pull at end	5.172	3.794	4.404	4.255	4.803	4.660	4.807	4.208	4.408	4.621
51	SAAMI Drop Test (2355-O)	Pass	Pass	Pass	*Fail	Pass	*Fail	Pass	Pass	Pass	*Fail
52	*A-4, A-6 & A-10 - Failed Barrel Horizontal, Bottom of Stock Up because of broken insert										
53	Broken inserts were replaced and retested										
54											
55	**RETEST**										
56	Date: November 9, 2007										
57	Technician: Jeff Wade										
58	Gun I.D. #	A-4	A-6	A-10							
59	Gun Serial #	71378780	71401901	71403158							
60	Caliber	243 WIN	7mm RM	7mm RM							
61	Engagement at start	0.0251	0.0259	0.0254							
62	Engagement at end	0.025	0.0262	0.0255							
63	Trigger Pull at start	4.616	4.575	4.563							
64	Trigger Pull at end	5.338	4.808	4.714							
65	SAAMI Drop Test (2355-O)	Pass	Pass	Pass							

	A	B	C	D	E	F	G	H
1	TLW 2355 - P (SAAMI Safety Operation Test - 40 lb. Trigger Pull Test)							
2	Date: 11/15/07							
3	Technician: Jeff Wade							
4	Gun I.D. #	A-11	A-12	A-13				
5	Gun Serial #	71288216	71388277	71389036				
6	Caliber	30-06	30-06	30-06				
7	40 lb. Trigger Pull Test	Pass	Pass	Pass				
8								
9								
10	TLW 2355 - H (Dynamic Sand and Dust Test)							
11	Date: 11/15/07							
12	Technician: Jeff Wade							
13	Gun I.D. #	A-14	A-16					
14	Dust/Debris Test	Pass	Pass					
15	500 ml, 75 PSI							
16	15 live rounds per gun, 3 magazines							
17	1 in chamber & 4 in magazine							
18								
19								
20	TLW 2355 - I (Hot Test)							
21	Date: 11/16/07							
22	Technician: Bob Lee							
23	Gun I.D. #	A-17	A-18					
24	Hot Test	Pass	Pass					
25								
26								
27	TLW 2355 - J (Cold Test)							
28	Date: 11/16/07							
29	Technician: Bob Lee							
30	Gun I.D. #	A-19	A-20					
31	Cold Test	Pass	Pass					
32								
33								
34	TLW 2355 - K (Salt Fog Test)							
35	Date: 11/26/07							
36	Technician: Jeff Wade							
37	Gun I.D. #	A-17	A-18					
38	Salt Fog Test	Comlete	Complete					
39	Hours in Chamber	22	24					
40	Condition in Chamber	Bolt Open	Bolt Closed					
41								
42								
43	TLW 2355 - L (Metallurgical Check of Triggers)							
44	Date: 12/2/07							
45	Engineer: Jim Urbon							
46	Gun I.D. #	A-15						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2																		
3		Microhardness																
4																		
5		Sample Prep																
6			The trigger from gun A15 was sectioned, mounted, and polished for case depth analysis. The sear engagement end of the trigger was sectioned off and mounted laying on its side.															
7			This section was then ground to mid plane. A seried for microhardness indents were ran from the top of the trigger 0.050" back from the front corner of the trigger.															
8																		
9		Distance from surface, inches	Hardness, HV	Hardness, HRc														
10		0.002	640	57.36136														
11		0.004	640	57.35465														
12		0.006	566	53.38171														
13		0.008	539	51.69266														
14		0.010	511	49.85006														
15		0.012	505	49.45893														
16		0.014	497	48.93291														
17		0.016	473	47.17051														
18		0.018	474	47.21232														
19		0.020	471	46.96577														
20		0.022	448	45.20535														
21		0.024	463	46.40042														
22		0.026	465	46.54471														
23		0.028	453	45.59615														
24		0.030	441	44.56657														
25		0.035	431	43.70489														
26		0.040	448	45.1413														
27		0.045	456	45.85844														
28		0.050	449	45.23185														
29																		



Observations

The HRc 50 case depth is about 0.010" at the location measured.
The core hardness at a depth of 0.050" is about HRc 45.
The vendor clames that the triggers were made from low carbon steel.
Remington had the triggers carburized.
I checked the hardness on the side of the trigger. The hardness was HRc 48.1 and HR15n 89.3.
The high core hardness is more like that of a medium carbon alloy steel like AISI 4140.

- The TLW request form can be found on the second worksheet (tabs at bottom of the screen) of this file.

- Please fill in all required fields as noted in red. Please fill in all other fields if applicable / possible. Instructions for each field will appear when you click on the field. The procedure field is an embedded MS Word object which will allow you to use formatting features not possible in Excel (i.e. paragraphs, bullets, numbering, etc).

- If possible, create your desired data table and/or graph formats in the additional worksheets of this file. This is preferred over extensive written procedures.

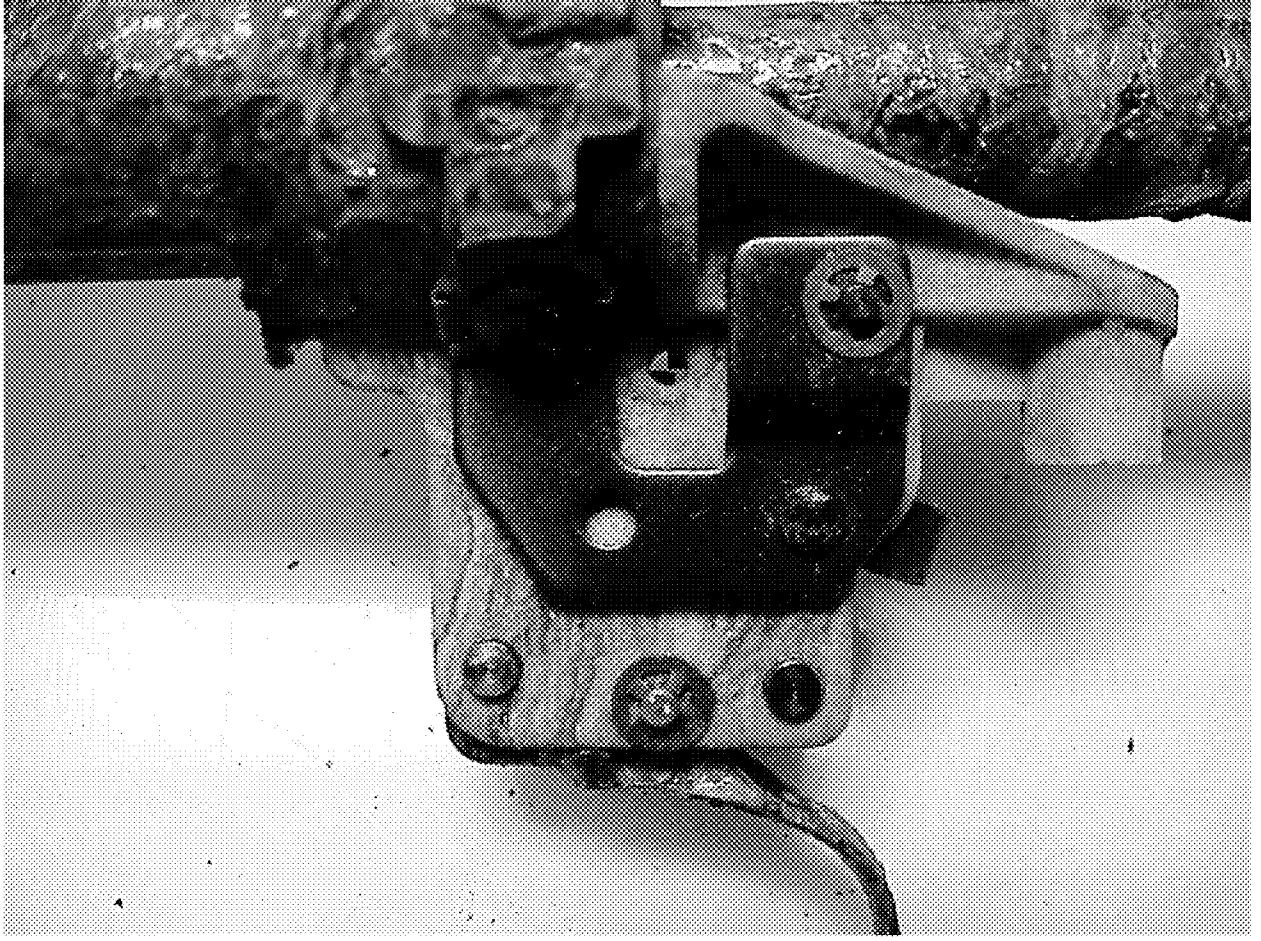
- If the request is for High Speed Video, specify any desired parameters (i.e. frame rate, resolution, etc.) in the "HSV Setup" tab. If not specified, the videographer will document the parameters that they chose to use.

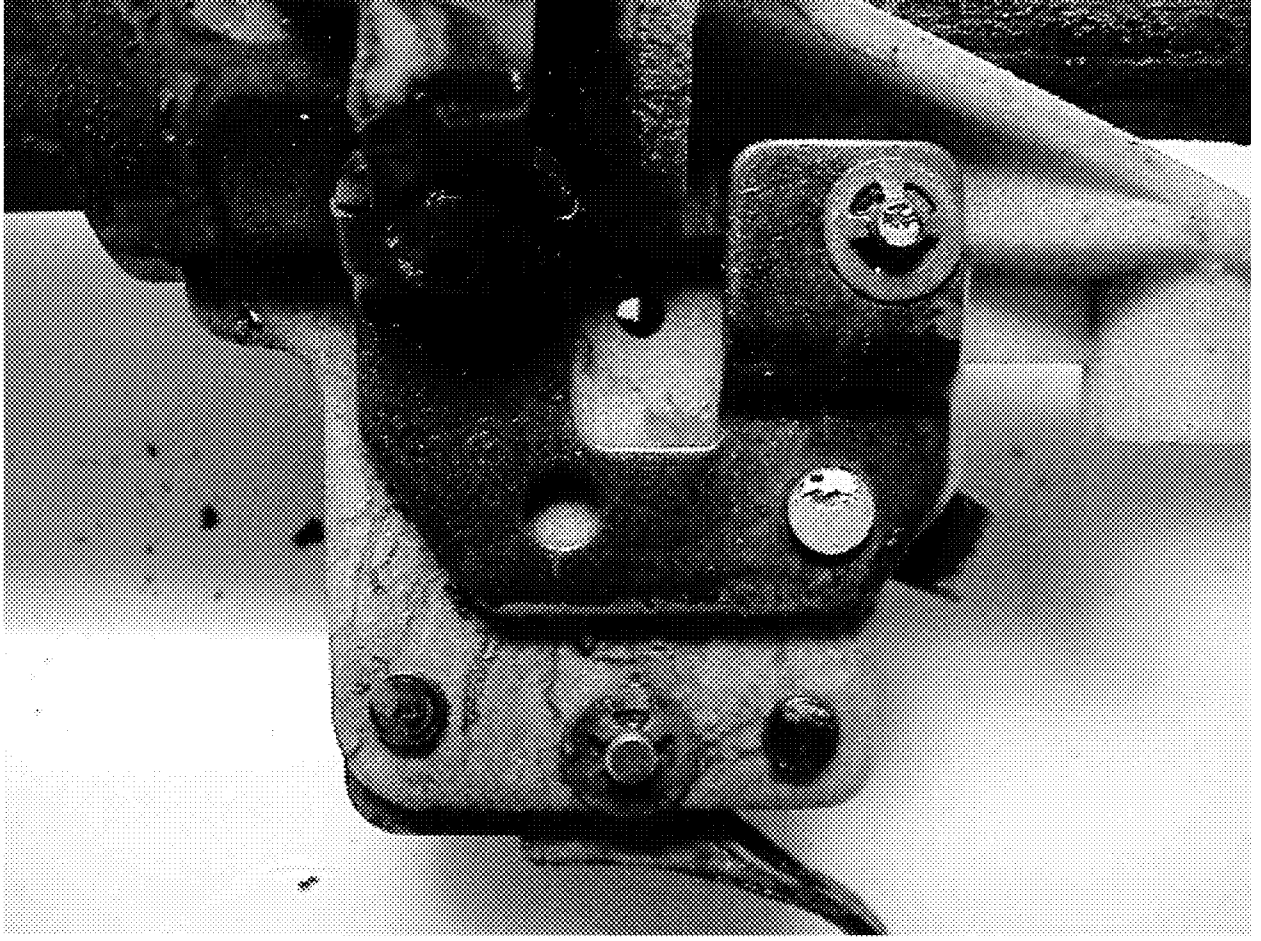
- Once the form is completed, save this file on your personal computer using the following format:
  TLW#### - Brief Description
  Try to keep the description as concise as possible. Your name in the filename is no longer necessary.

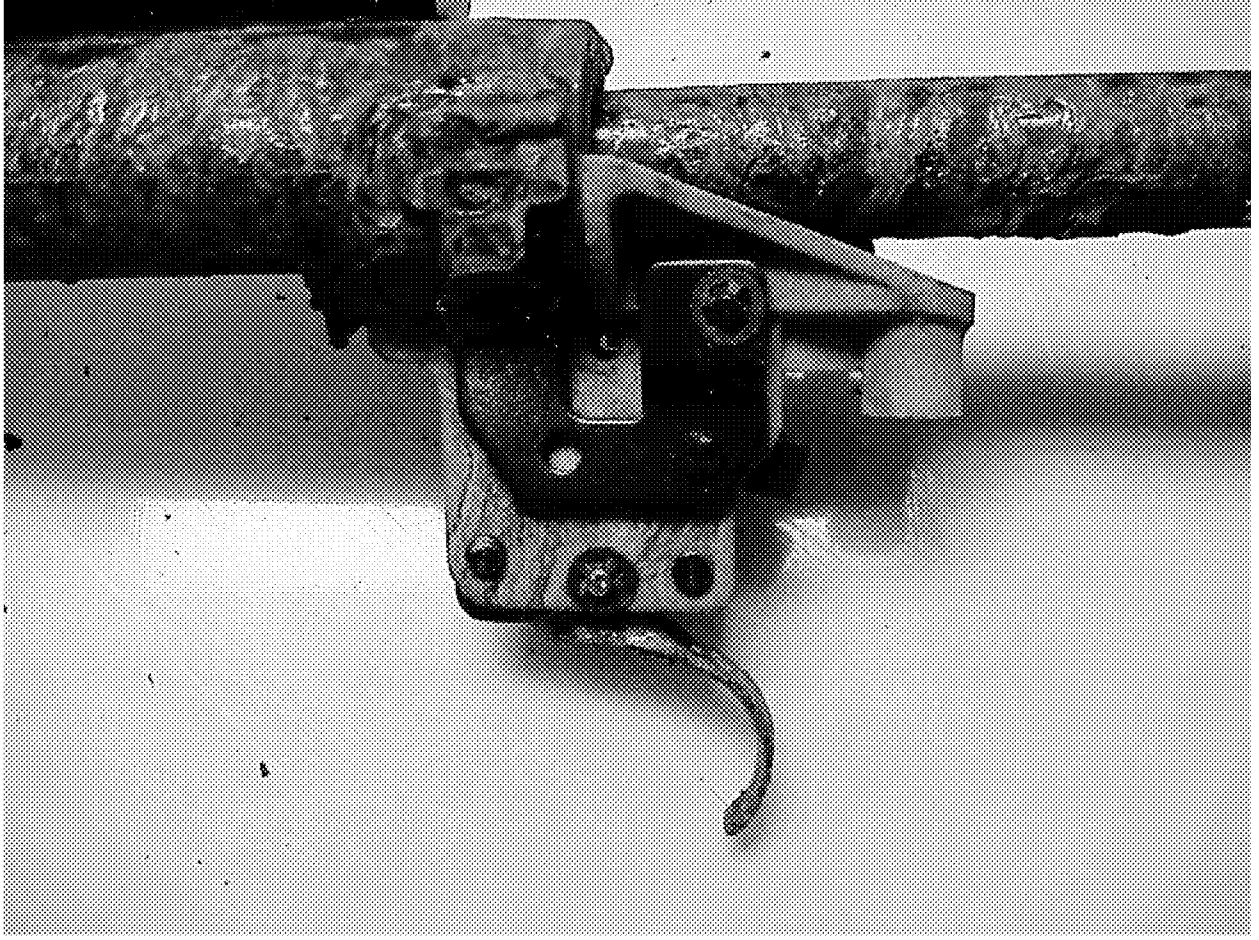
- Email the file to Phillip Reesor (primary) and Mark Hammond (secondary). Phillip will return your email with the assigned number and the assignee

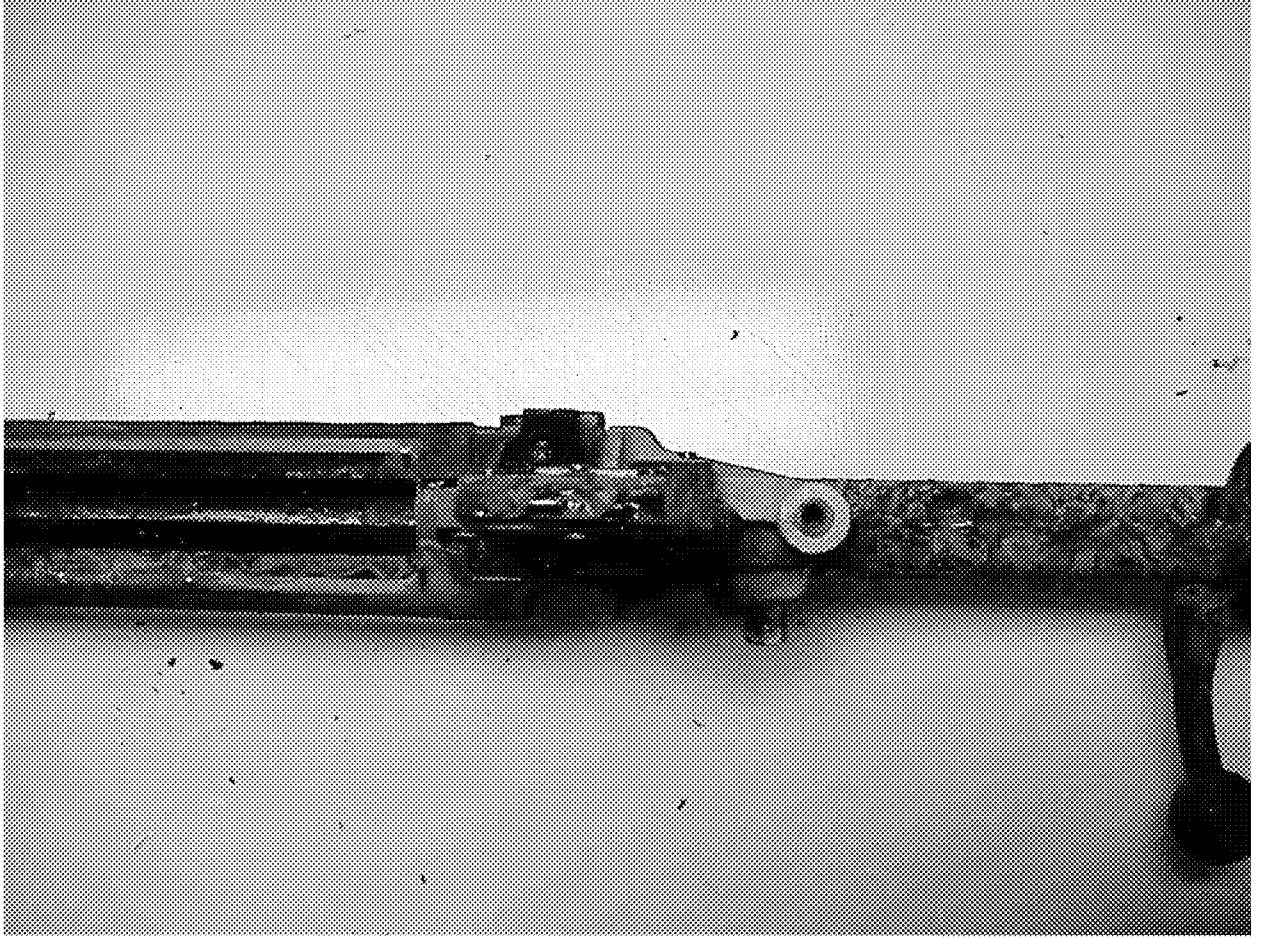
Perform DAT per flow chart and instructions.

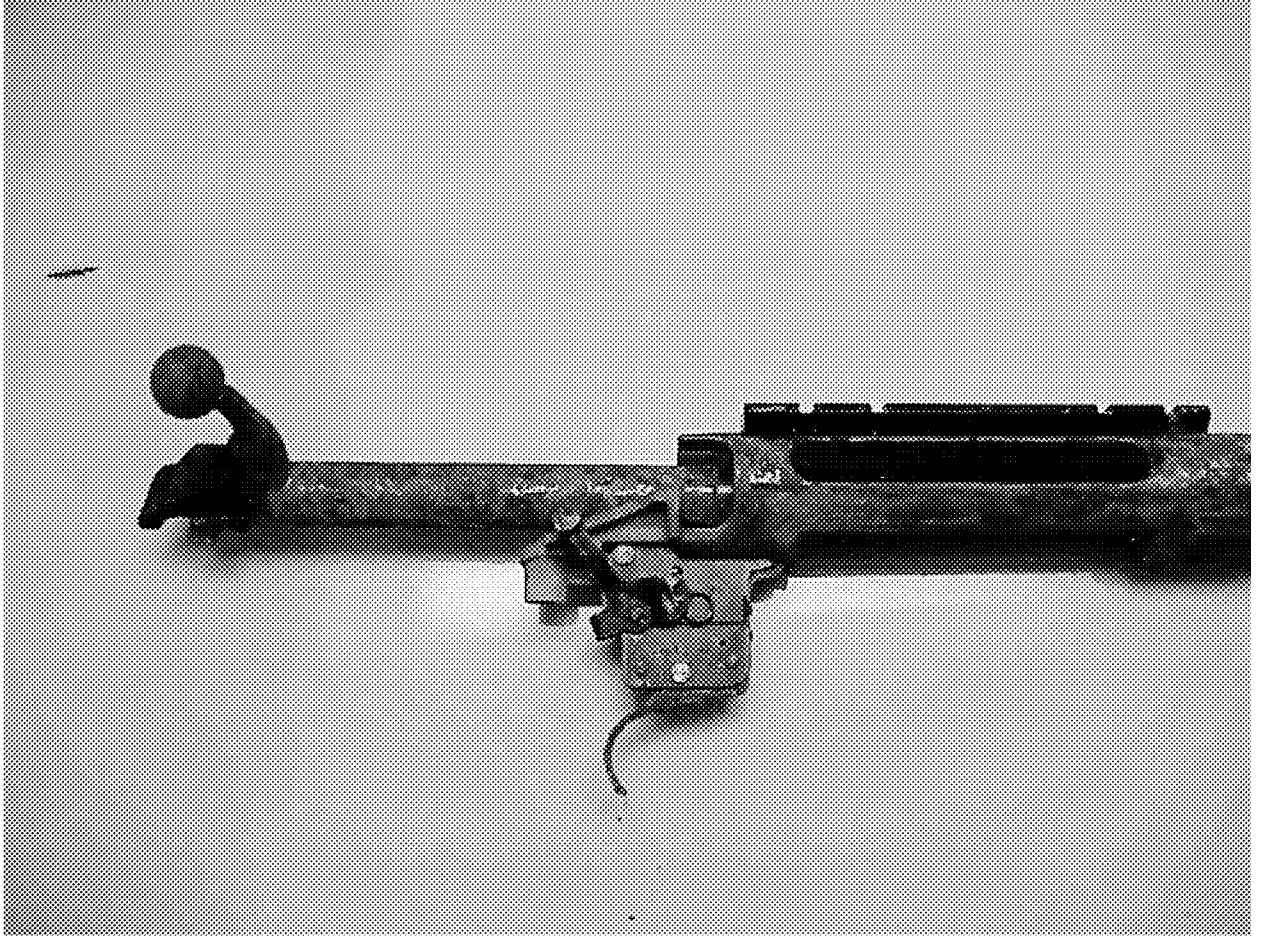
Double click to edit.











TLW2507
TEST REPORT

MODEL 770 SEAR SAFETY CAM NON-CONFORMANCE EVALUATION

Written By: Marlin Jiranek

Requested By: Gerald Vickers
Performed By: Marlin Jiranek, Mark Hammond, Scott Franz

INTRODUCTION

The Mayfield, KY manufacturing plant received a suspect lot of M770 sear safety cams on or about April 2, 2008. The suspect lot contained a total of approximately 3,000 pieces. After the parts were distributed into the general build population, it was determined that some parts in this lot did not meet the hardness specifications on the print. The parts are manufactured by Remington Powder Metal Products Division (PMPD) locating in Ilion, NY. The print specifications state HR15n 88-92 or HRc 50 Min. The hardness of the parts as measured at the Mayfield manufacturing facility range between HR15n 70-85.

Discussions with the Ilion facility indicate that the parts are normally inspected using a specification of HRc 50 Min. If the parts do not meet this specification, they are checked using the HR15n scale and a value of 85.5 Min. is used. While this is not specified on the print, it is the practice that has been adopted for many years.

Upon checking previous lot samples at Mayfield, it was discovered that a second suspect lot of safety sear cams was delivered to the facility and built into product which was located at the OHL warehouse in Memphis, TN, waiting for shipment to customers. At the time of the discovery, all product at OHL was put on hold until an evaluation could be completed. This information was relayed to the Elizabethtown R&D center on Friday, April 4, 2008.

An evaluation of the suspect parts was initiated to evaluate the parts for confirmation of the hardness level and their subsequent fitness for use. At the request of R&D, a sample of 30 safety sear cams from the Mayfield facility were measured for hardness using the HR15n scale and the softest 5 samples were built into completed insert assemblies. These samples were dry-cycle tested at the R&D Center along with 2 control samples that met the drawing specifications. All 7 of the test samples were cycled to 2,000 cycles, being evaluated for trigger pull force curves and visually for excessive wear. The 2 softest non-conforming samples and one of the control samples were cycled to a total of 5,000 cycles and evaluated for the same criteria. The remaining test samples were evaluated for hardness, micro-hardness, density, and porosity.

RESULTS SUMMARY

The results of the testing showed no indications of the suspect parts not performing acceptably in actual use. However, the suspect parts did not meet the minimum macro and superficial hardness requirements as stated on the component drawings.

Several of the examined sear safety cams from the suspect lot failed to meet the HRc hardness inspection criteria and all of the examined sear safety cams from the suspect lot failed to meet the HR15n hardness inspection criteria. Microhardness analysis revealed extensive interconnected porosity in the parts, as would be expected

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R 2194677

with a P/M component, that results in through carburizing of the components rather than case hardening. The micro-hardness levels indicated that the steel had been hardened to at least the HRc 50 equivalent level.

Density determination by submersion indicated that 10 randomly selected safety sear cams from the suspect lot were on the low edge, with some samples slightly below, the minimum density requirement of 7.4g/cc stated on the print. This was confirmed with porosity measurements of 5 additional samples through the cross section that exhibited optical porosity levels around 5% and higher, which is the upper porosity level for this material.

Dry cycle testing of the 5 softest safety sear cams and 2 control safety sear cams that met the print specifications showed no significant differences in trigger pull forces or engagement surface wear over 5,000 cycles.

The fact that the density of the components is at the low end of the specification likely resulted in the parts not meeting the minimum macro and superficial hardness specifications. This is due to the porous nature of the finished component. The material present is of the proper chemistry and hardness to perform and function as intended and confirmed by testing.

CONCLUSIONS & RECOMMENDATIONS

Recommendations were communicated by telephone conference on Monday, April 7, 2008 between the following site locations: Mayfield, Elizabethtown R&D, Ilion PMPD.

The recommendations were that the existing M700 product at OHL or packed and ready to ship at Mayfield be released for shipment. All existing insert assemblies at Mayfield containing the suspect sear safety cam components will have the sear safety cams replaced with new parts that meet the communicated specifications from PMPD. All of the remaining sear safety cams from the suspect lot will be scrapped. Ilion PMPD is tasked with determining a location at which to measure the hardness in the future and update the prints to reflect this information.

RESULTS

The results of the testing completed at the R&D Technical Center have been tabulated in a master excel data file named "***TLW2507 770 Sear Safety Cam Evaluation.xls***". The data sheets contained within the spreadsheet file includes the test matrix of the tests completed, the superficial, macro, and micro hardness data, the porosity measurements, the density measurements, and all of the trigger pull load-displacement curves. The trigger pull data is presented in normalized units with the summary tab actually converted to lbs-force. This complete data file has been archived on the R&D Technical Center's TLW system and is available on request from the R&D Technical Center.

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R 2194678

Engineer:	Marlin Jiranek
Project #:	241230
TLW #:	2507
Date Submitted:	4/4/2008
Requested Completion Date:	4/7/2008
Completion Date Justification:	
Test Description:	Evaluation of 770 (710/700) sear safety cam that does not meet hardness specification minimum of HR15n 85.5 (verbal from Ilion).
Test Procedure:	Sample test pieces to arrive from Mayfield – 5 fire control assemblies and 5 sear safety cams. The 10 sample safety sear cams are hand picked for the softest part available. Part to be evaluated for case depth (microhardness) and dry-cycle testing to determine suitability for product usage. Microhardness – sample 5 pieces and determine effective and total case depth for each part. Dry Cycle – Dry cycle 5 trigger assemblies to 2,000 cycles. Trigger scan data to be collected initially and then at 500, 1000, 1500, and 2000 cycles. Two assemblies with softest safety sear cams to be cycled to 5000 cycles, with trigger scan data collected at 3000, 4000, and 5000 cycles. Trigger scan to collect 5 trigger pulls from each fire control assembly at the required cycle number.

Special Requirements:	
Supplies Availability:	Afternoon - 4/4/08.
Results Required:	Formal Report

********This section to be completed by Test Lab Manager*******

Assigned To:	The Chosen One	**Start Date:**	
Assigned Date:	4/4/2008	**Completion Date:**	
Comments:			

	T	U	V	W
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51			Data Only	
52			Formal Report	
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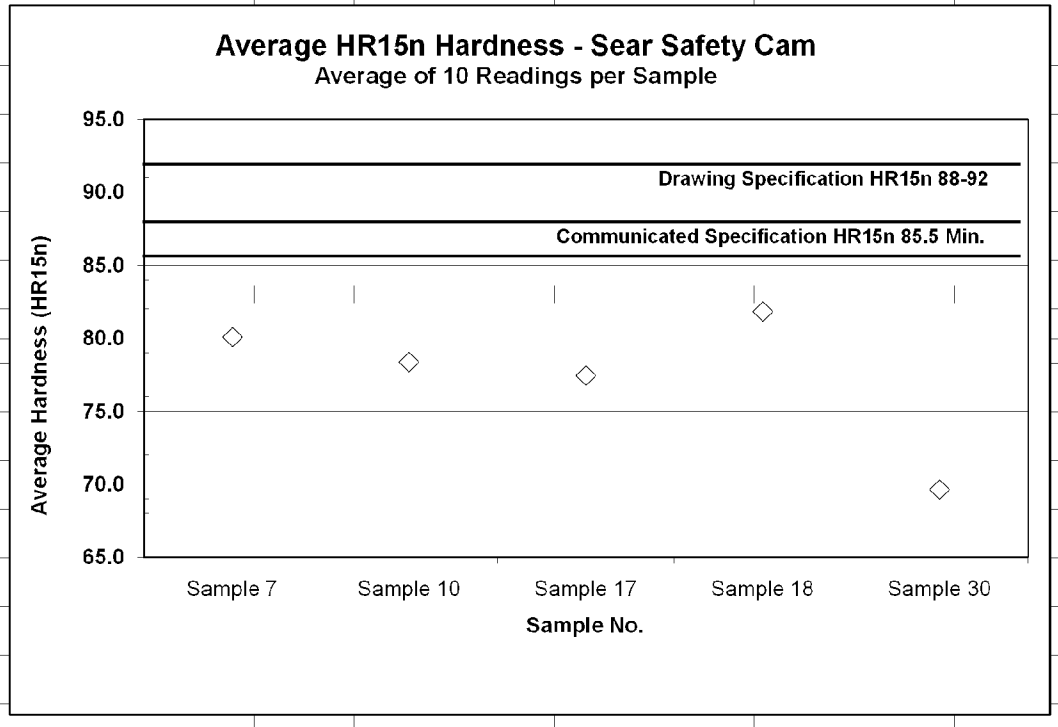
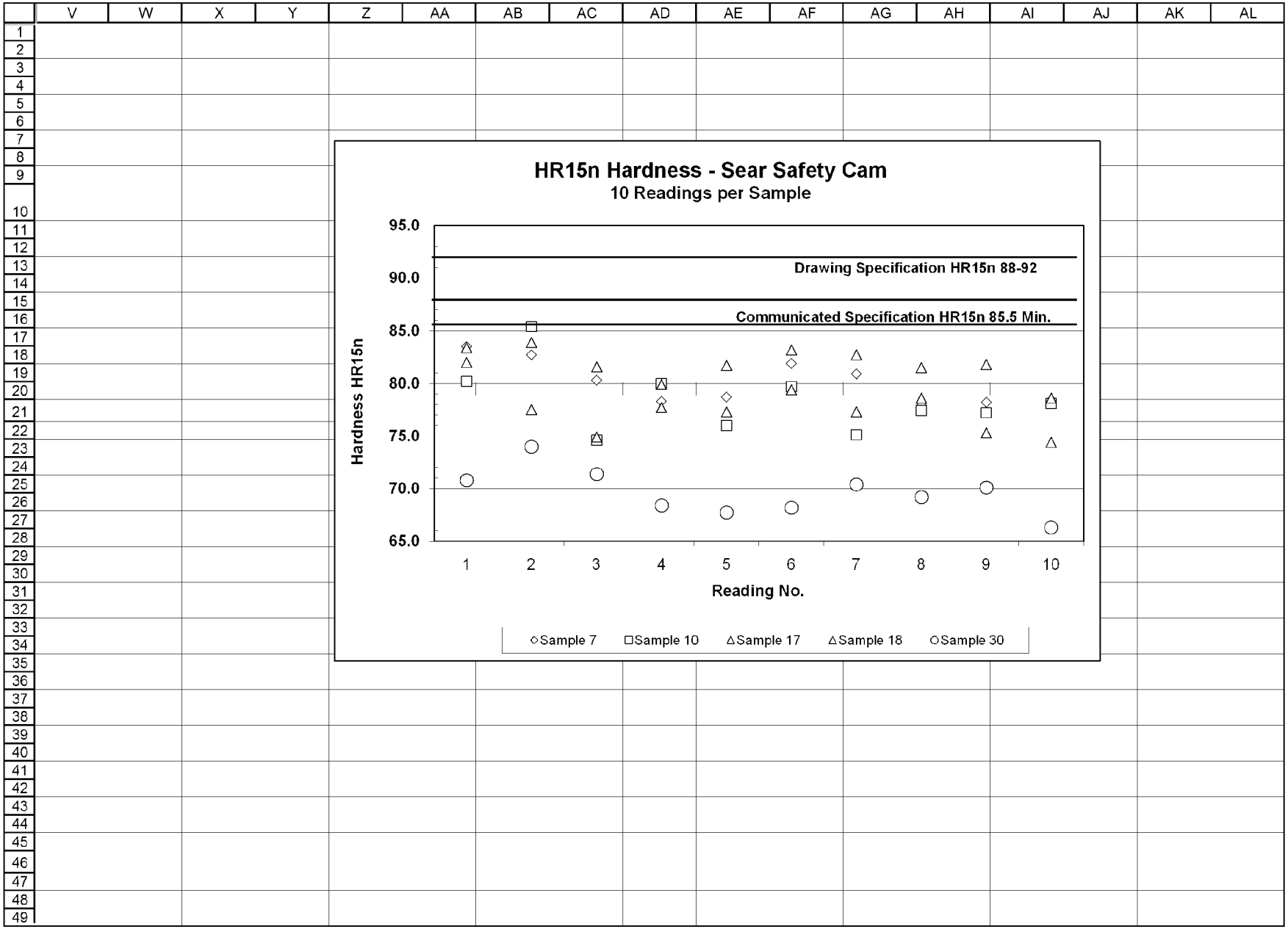
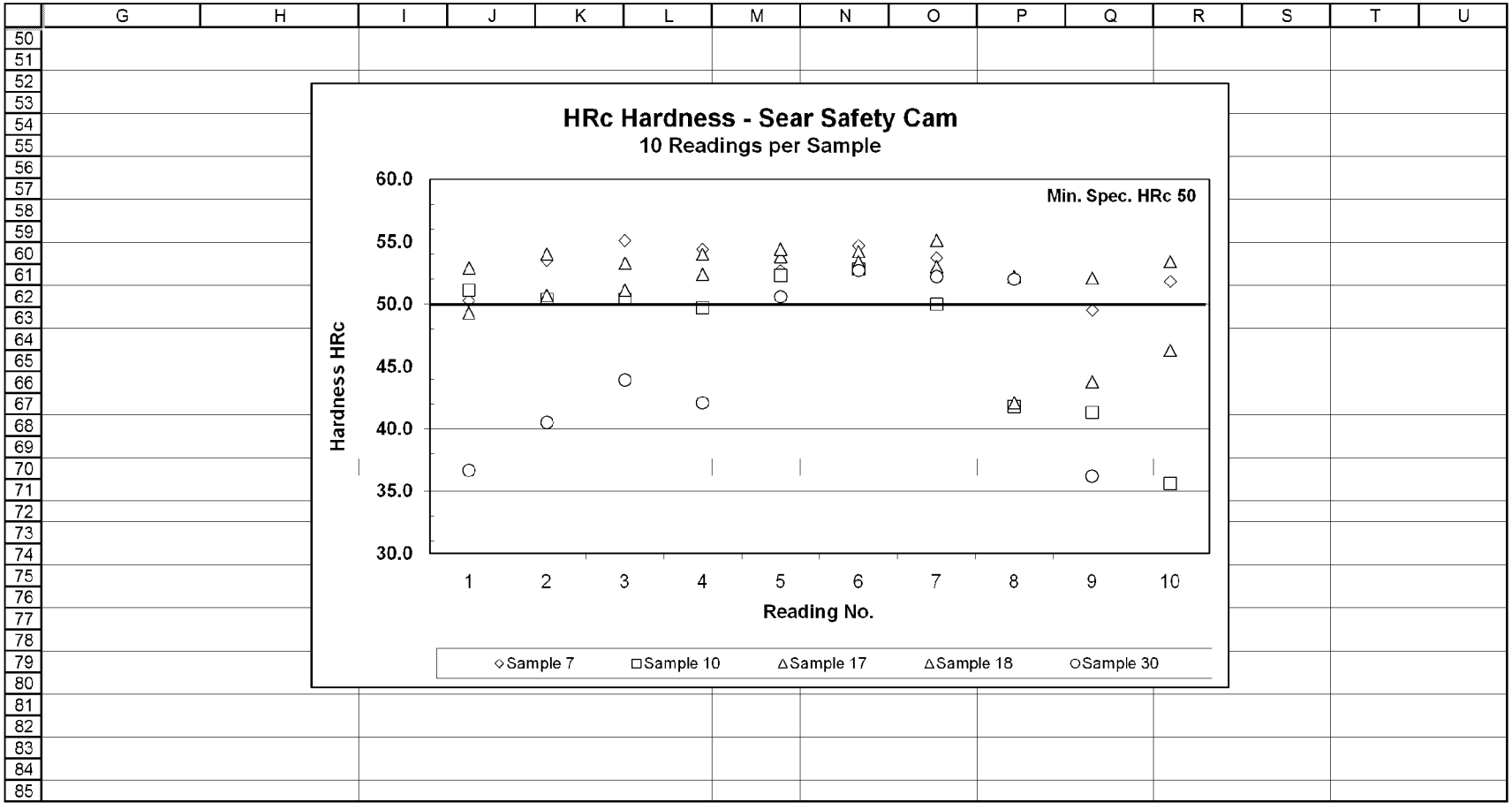
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P Q R S T U V W X Y Z AA AB AC AD AE AF
1			FC Assy SSC 12	FC Assy SSC 14	FC Assy SSC 20	FC Assy SSC 26	FC Assy SSC 28	Control SSC N1	Control SSC N2	SSC Sample 7	SSC Sample 10	SSC Sample 17	SSC Sample 18	SSC Sample 30	Additional Samples	LEGEND
2		Gun # - Serial #														
3																○ = Planned ○ = Completed Failed
4																○ = In-Progress ⊗ = Cancelled
5																○ = Completed & Passed □ = Not Planned
6																
7	Cat.	Test Description	12	14	20	26	28	N1	N2	7	10	17	18	30		Specification / Requirement
8	Initial Evaluation	Initial Trigger Scan	○	○	○	○	○	○	○							
9		Case Hardness/Depth Eval								○	○	○	○	○		HR15n 88-92, HRc 50 Min. (Ref 0.010"-0.020" Case Depth)
10		Porosity Determination (Optical)								○	○	○	○	○		Average Porosity < 5%
11		Density Determination (10 pcs)													○	Density Determination (10 Additonal Samples) >7.400g/cc
12		500 Cycles	○	○	○	○	○	○	○							
13		500 Cycle Trigger Scan	○	○	○	○	○	○	○							No Substantial Change in Trigger Scan Level or Shape
14		500 Cycles (1000 total)	○	○	○	○	○	○	○							
15		1000 Cycle Trigger Scan	○	○	○	○	○	○	○							No Substantial Change in Trigger Scan Level or Shape
16		500 Cycles (1500 total)	○	○	○	○	○	○	○							
17		1500 Cycle Trigger Scan	○	○	○	○	○	○	○							No Substantial Change in Trigger Scan Level or Shape
18		500 Cycles (2000 total)	○	○	○	○	○	○	○							
19		2000 Cycle Trigger Scan	○	○	○	○	○	○	○							No Substantial Change in Trigger Scan Level or Shape
20	Extended Eval.	1000 Cycles (3000 total)	○	○												
21		3000 Cycle Trigger Scan	○	○												No Substantial Change in Trigger Scan Level or Shape
22		1000 Cycles (4000 total)	○	○												
23		4000 Cycle Trigger Scan	○	○												No Substantial Change in Trigger Scan Level or Shape
24		1000 Cycles (5000 total)	○	○												
25		5000 Cycle Trigger Scan	○	○												No Substantial Change in Trigger Scan Level or Shape

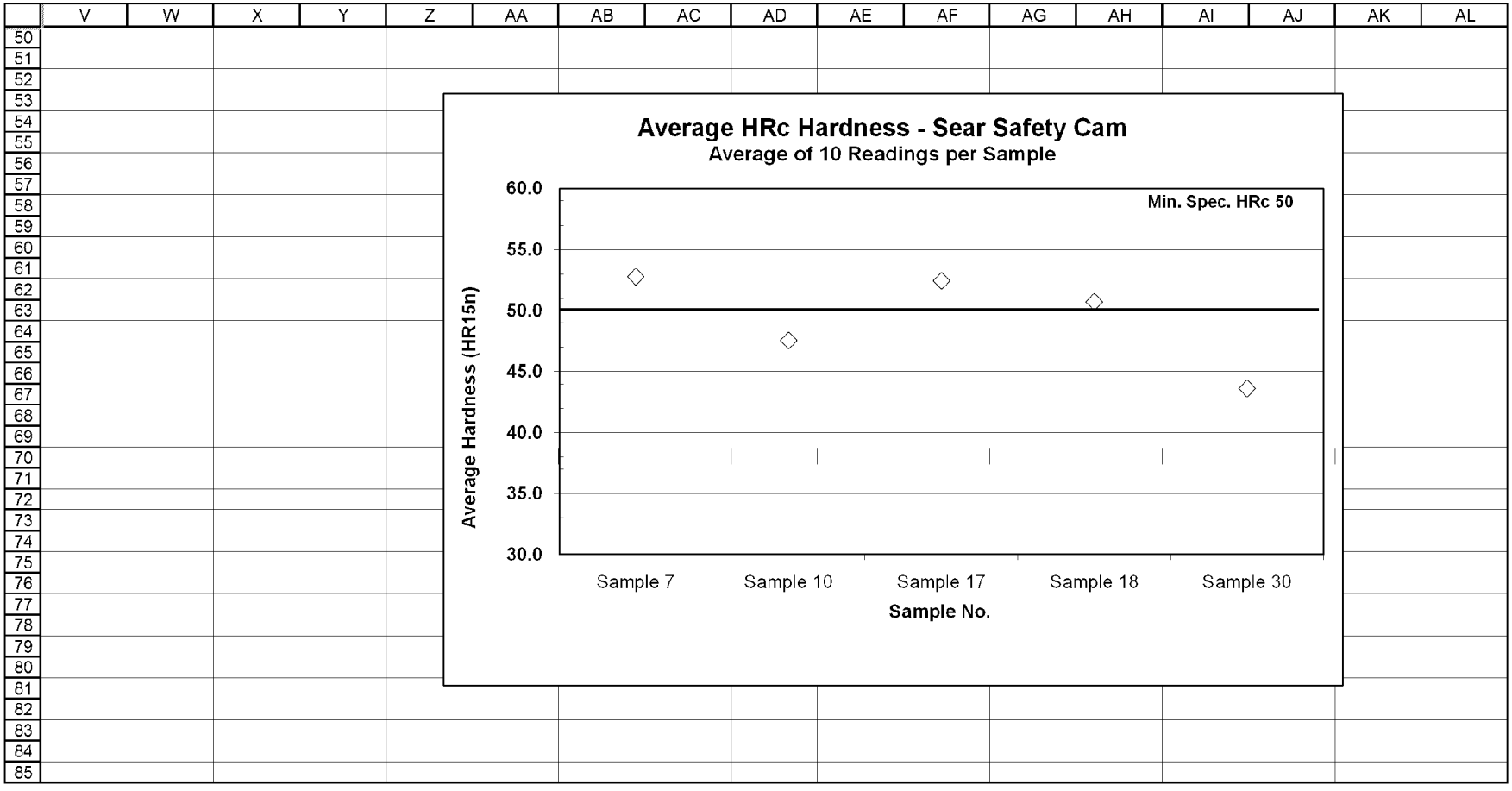
	A	B	C	D	E	F
1	DATE:	4/4/2008				
2	Tester:	J.Urbon				
3						
4	Scale -->	HR15n	Measured on shooters right side of part from back to front.			
5						
6					Trial 1	Trial 2
7	Calibration -->	Test Block	90.22 +/- 0.7		90.9	90.7
8						
9		PART	PART	PART	PART	PART
10	Trial No.	Sample 7	Sample 10	Sample 17	Sample 18	Sample 30
11	1	83.5	80.2	82.0	83.4	70.8
12	2	82.7	85.4	77.5	83.9	74.0
13	3	80.3	74.6	74.9	81.6	71.4
14	4	78.3	80.0	77.7	79.9	68.4
15	5	78.7	76.0	77.3	81.7	67.7
16	6	81.9	79.7	79.4	83.2	68.2
17	7	80.9	75.1	77.3	82.7	70.4
18	8	77.9	77.4	78.6	81.5	69.2
19	9	78.2	77.2	75.3	81.8	70.1
20	10	78.4	78.1	74.4	78.6	66.3
21	Avg.	**80.1**	**78.4**	**77.4**	**81.8**	**69.7**
22	Std. Dev.	2.1	3.2	2.3	1.6	2.2
23	Max.	83.5	85.4	82.0	83.9	74.0
24	Min.	77.9	74.6	74.4	78.6	66.3
25						
26	*Hickory*	*76.6*	*77.0*	*77.5*	*79.3*	*70.7*
27	*Values:*	*83.0*	*80.5*	*81.8*	*85.0*	*70.2*
28						
29						
30	Scale -->	HRc	Measured on shooters left side of part from back to front			
31					Trial 1	Trial 2
32	Calibration -->	Test Block	46.56 +/- 1.0		46.5	47
33						
34		PART	PART	PART	PART	PART
35	Trial No.	#7	#10	#17	#18	#30
36	1	50.3	51.1	49.3	52.9	36.7
37	2	53.5	50.4	50.7	54.0	40.5
38	3	55.1	50.4	51.1	53.3	43.9
39	4	54.4	49.7	52.4	54.0	42.1
40	5	52.7	52.3	53.8	54.4	50.6
41	6	54.7	52.8	54.2	53.4	52.7
42	7	53.7	50.0	55.1	53.0	52.2
43	8	52.0	41.8	52.2	42.1	52.0
44	9	49.5	41.3	52.1	43.8	36.2
45	10	51.8	35.6	53.4	46.3	29.2
46	Avg.	**52.8**	**47.5**	**52.4**	**50.7**	**43.6**
47	Std. Dev.	1.9	5.8	1.8	4.7	8.2
48	Max.	55.1	52.8	55.1	54.4	52.7
49	Min.	49.5	35.6	49.3	42.1	29.2

	G	H	I
6	**Trial 3**	**Avg.**	
7	90.8	90.8	**Checks OK**
9	**Print Spec.**	**Print Spec.**	
10	**Max.**	**Min.**	
11	92.0	88.0	
12	92.0	88.0	
13	92.0	88.0	
14	92.0	88.0	
15	92.0	88.0	
16	92.0	88.0	
17	92.0	88.0	
18	92.0	88.0	
19	92.0	88.0	
20	92.0	88.0	
31	**Trial 3**	**Avg.**	
32	46.9	46.8	**Checks OK**
34	**Spec.**		
35	**Min.**		
36	50.0		
37	50.0		
38	50.0		
39	50.0		
40	50.0		
41	50.0		
42	50.0		
43	50.0		
44	50.0		
45	50.0		




HR15n Hardness - Sear Safety Cam
10 Readings per Sample
Drawing Specification HR15n 88-92
Communicated Specification HR15n 85.5 Min.
Hardness HR15n
95.0
90.0
85.0
80.0
75.0
70.0
65.0
1
2
3
4
5
6
7
8
9
10
Reading No.
Sample 7
Sample 10
Sample 17
Sample 18
Sample 30


HRc Hardness - Sear Safety Cam
10 Readings per Sample
Min. Spec. HRc 50
Hardness HRc
60.0
55.0
50.0
45.0
40.0
35.0
30.0
1
2
3
4
5
6
7
8
9
10
Reading No.
Sample 7
Sample 10
Sample 17
Sample 18
Sample 30


Average HRc Hardness - Sear Safety Cam
Average of 10 Readings per Sample
Min. Spec. HRc 50
Average Hardness (HR15n)
60.0
55.0
50.0
45.0
40.0
35.0
30.0
Sample 7
Sample 10
Sample 17
Sample 18
Sample 30
Sample No.

	Pores	Solid	Area %	Average
Sample 7				
	0.000194	0.00342	5.4%	**5.0%**
	0.00018	0.003339	5.1%	
	0.00016	0.003337	4.6%	
	0.000155	0.003318	4.5%	
	0.000184	0.003334	5.2%	
Sample 17				
	Pores	Solid	Area %	Average
	0.000193	0.003339	5.5%	**5.3%**
	0.000167	0.003336	4.8%	
	0.000182	0.003335	5.2%	
	0.000157	0.00333	4.5%	
	0.000238	0.003338	6.7%	
Sample 30				
	Pores	Solid	Area %	Average
	0.000222	0.003328	6.2%	**6.5%**
	0.000235	0.003337	6.6%	
	0.000266	0.003323	7.4%	
	0.000219	0.003332	6.2%	
	0.00021	0.003333	5.9%	
Sample 18				
	Pores	Solid	Area %	Average
	0.000158	0.003339	4.5%	**4.3%**
	0.00016	0.003333	4.6%	
	0.00017	0.003331	4.8%	
	0.000168	0.003342	4.8%	
	0.000102	0.00334	3.0%	
Sample 10				
	Pores	Solid	Area %	Average
	0.000157	0.003337	4.5%	**4.9%**
	0.000128	0.00334	3.7%	
	0.000161	0.00334	4.6%	
	0.000174	0.003335	5.0%	
	0.000237	0.003332	6.6%	

POROSITY DETERMINATION

100X Magnification - 5 Distinct Fields of View

	Field No.					
Sample No.	**1**	**2**	**3**	**4**	**5**	**Average**
7	5.4%	5.1%	4.6%	4.5%	5.2%	**5.0%**
10	4.5%	3.7%	4.6%	5.0%	6.6%	**4.9%**
17	5.5%	4.8%	5.2%	4.5%	6.7%	**5.3%**
18	4.5%	4.6%	4.8%	4.8%	3.0%	**4.3%**
30	6.2%	6.6%	7.4%	6.2%	5.9%	**6.5%**

Sample 7

B	R	Area %	Average
0.000194	0.00342	5.4%	5.0%
0.00018	0.003339	5.1%	
0.00016	0.003337	4.6%	
0.000155	0.003318	4.5%	
0.000184	0.003334	5.2%	

Sample 17

B	R	Area %	Average
0.000193	0.003339	5.5%	5.3%
0.000167	0.003336	4.8%	
0.000182	0.003335	5.2%	
0.000157	0.00333	4.5%	
0.000238	0.003338	6.7%	

Sample 30

B	R	Area %	Average
0.000222	0.003328	6.2%	6.5%
0.000235	0.003337	6.6%	
0.000266	0.003323	7.4%	
0.000219	0.003332	6.2%	
0.00021	0.003333	5.9%	

Sample 18

B	R	Area %	Average
0.000158	0.003339	4.5%	4.3%
0.00016	0.003333	4.6%	
0.00017	0.003331	4.8%	
0.000168	0.003342	4.8%	
0.000102	0.00334	3.0%	

Sample 10

B	R	Area %	Average
0.000157	0.003337	4.5%	4.9%
0.000128	0.00334	3.7%	
0.000161	0.00334	4.6%	
0.000174	0.003335	5.0%	
0.000237	0.003332	6.6%	

Density

Water (g/cc): *0.9974*

Sample No.	Hardness Average	Hardness (HR15n - Hickory)		Weight (g) Dry	Weight (g) Wet	Density (g/cc)	Ni Corrected Density (g/cc)
4	79.7	77.2	82.2	9.1707	7.9286	**7.3640**	**7.3497**
5	81.0	81.5	80.4	9.1631	7.9256	**7.3853**	**7.3713**
23	75.6	72.9	78.2	9.1860	7.9469	**7.3942**	**7.3803**
24	75.5	74.8	76.1	9.1665	7.9348	**7.4228**	**7.4094**
25	75.9	74.5	77.3	9.1557	7.9130	**7.3484**	**7.3339**
19	81.3	80.6	82.0	9.1629	7.9242	**7.3780**	**7.3638**
21	76.9	72.3	81.5	9.1638	7.9255	**7.3811**	**7.3670**
15	80.9	77.8	83.9	9.1777	7.9366	**7.3756**	**7.3615**
3	75.6	74.5	76.7	9.1813	7.9369	**7.3589**	**7.3445**
13	77.0	73.5	80.5	9.1463	7.9078	**7.3658**	**7.3515**

Ni Correction Factory (0.0005" High P Ni Plate)

thickness (in.)	area (in^2)	volume (in^3)	volume cc (cc)	wt dry (g)	wt wet (g)
0.0005	2.558	0.001279	0.020959055	0.171864	0.15096

Sample Name:	Pattern1
Calibration:	0.009382 mil/pixel
Magnification:	400x
Force:	500 gf
Dwell Time :	10.1 sec.

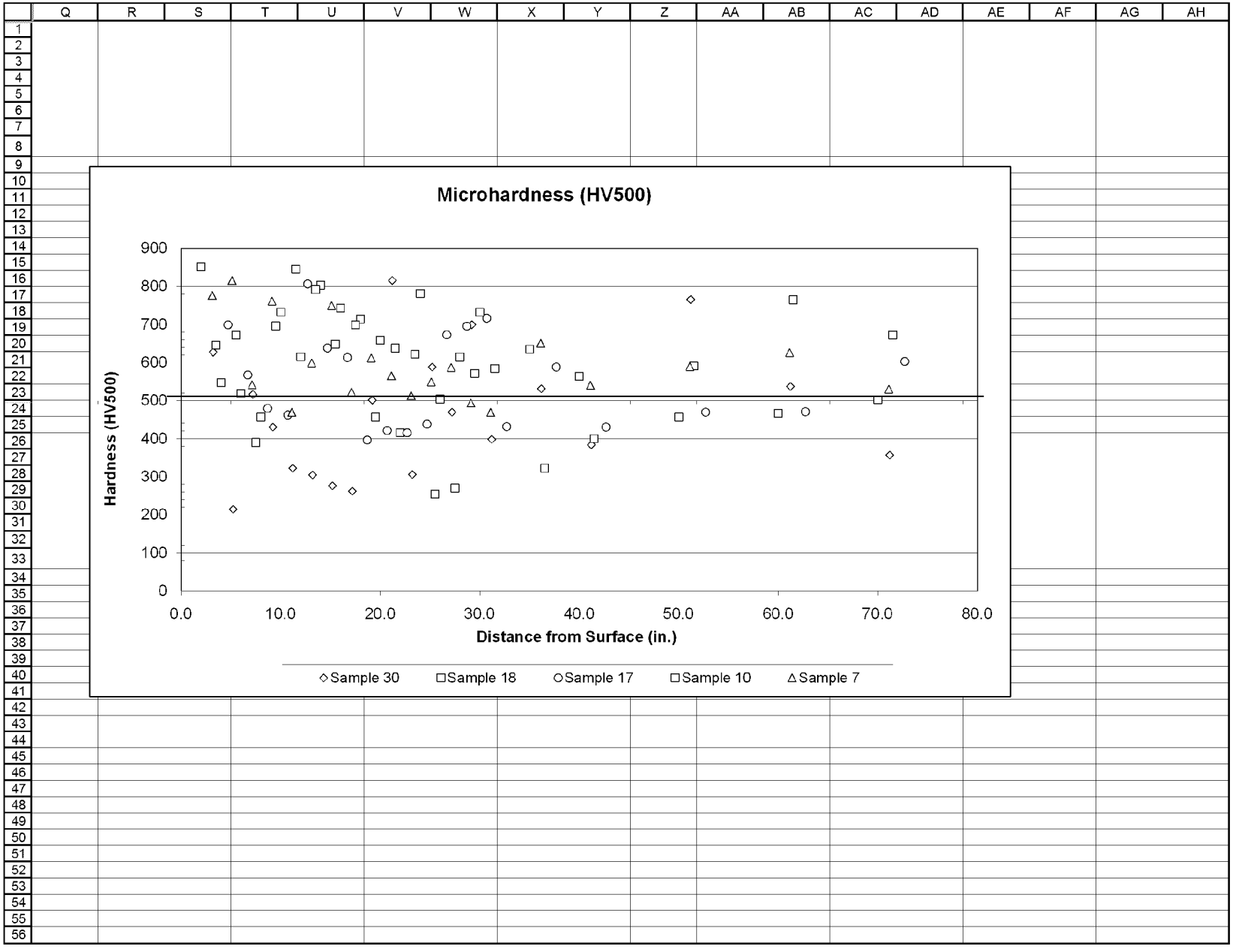
Sample 7

			Corr Factor:	1.1		
Field	Hard.	Native Hardness	Depth		H Diag.	V Diag.
#	HRC	HV	mil		µm	µm
1	63.1	776	2.0	3.1	34.6	34.6
2	64.5	815	4.0	5.1	33.6	33.8
3	51.8	541	6.0	7.1	42.7	40.1
4	62.6	761	8.0	9.1	35.1	34.8
5	46.8	469	10.0	11.1	44.3	44.6
6	55.2	599	12.0	13.1	39.1	39.6
7	62.1	749	14.0	15.1	35.0	35.3
8	50.6	522	16.0	17.1	42.2	42.1
9	55.9	612	18.0	19.1	40.5	37.4
10	53.3	565	20.0	21.1	41.2	39.8
11	50.0	513	22.0	23.1	42.1	42.9
12	52.3	549	24.0	25.1	44.3	37.9
13	54.5	587	26.0	27.1	39.8	39.7
14	48.6	493	28.0	29.1	42.9	43.9
15	46.8	469	30.0	31.1	44.1	44.9
16	57.9	650	35.0	36.1	37.7	37.9
17	51.8	540	40.0	41.1	41.2	41.6
18	54.7	589	50.0	51.1	39.9	39.5
19	56.6	626	60.0	61.1	38.4	38.6
20	51.1	530	70.0	71.1	41.6	42.1

Sample 10

			Corr. Factor:	1.5		
Field	Hard.	Native Hardness	Depth		H Diag.	V Diag.
#	HRC	HV	mil		µm	µm
1	57.6	646	2.0	3.5	37.4	38.4
2	58.9	672	4.0	5.5	37.2	37.1
3	39.8	390	6.0	7.5	49.1	48.4
4	60.0	696	8.0	9.5	38.1	34.8
5	65.4	845	10.0	11.5	32.2	34.1
6	63.7	792	12.0	13.5	34.3	34.1
7	57.7	648	14.0	15.5	39.1	36.6
8	60.1	699	16.0	17.5	36.2	36.6
9	45.9	456	18.0	19.5	45.5	44.6
10	57.2	638	20.0	21.5	37.9	38.4
11	56.4	622	22.0	23.5	38.4	38.9
12	22.9	254	24.0	25.5	60.5	60.4
13	25.6	270	26.0	27.5	59.1	58.2
14	53.7	571	28.0	29.5	41.2	39.4
15	54.4	584	30.0	31.5	39.8	39.9
16	32.5	322	35.0	36.5	53.1	54.2
17	40.8	400	40.0	41.5	47.4	48.9
18	54.8	591	50.0	51.5	38.6	40.6
19	62.7	765	60.0	61.5	34.8	34.8
20	58.9	672	70.0	71.5	36.9	37.4

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON


Microhardness (HV500)
Hardness (HV500)
900
800
700
600
500
400
300
200
100
0
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
Distance from Surface (in.)
Sample 30
Sample 18
Sample 17
Sample 10
Sample 7

Sample 17

			Corr. Factor:	2.7		
Field	Hard.	Native Hardness	Depth		H Diag.	V Diag.
#	HRC	HV	mil		µm	µm
1	60.1	699	2.0	4.7	36.0	36.9
2	53.4	567	4.0	6.7	40.3	40.6
3	47.6	479	6.0	8.7	43.6	44.4
4	46.3	462	8.0	10.7	46.5	43.1
5	64.2	806	10.0	12.7	33.6	34.2
6	57.3	638	12.0	14.7	38.1	38.2
7	56.0	613	14.0	16.7	39.3	38.5
8	40.3	396	16.0	18.7	46.9	49.9
9	42.8	421	18.0	20.7	46.7	47.1
10	42.2	415	20.0	22.7	46.9	47.6
11	44.4	438	22.0	24.7	43.8	48.1
12	58.9	672	24.0	26.7	36.9	37.4
13	59.9	695	26.0	28.7	36.5	36.6
14	60.8	716	28.0	30.7	35.6	36.3
15	43.7	431	30.0	32.7	47.2	45.6
16	54.6	588	35.0	37.7	39.1	40.4
17	43.6	430	40.0	42.7	46.0	46.9
18	46.8	469	50.0	52.7	44.1	44.9
19	47.0	471	60.0	62.7	44.1	44.6
20	55.4	603	70.0	72.7	38.8	39.6

Sample 18

			Corr. Factor:	0		
Field	Hard.	Native Hardness	Depth		H Diag.	V Diag.
#	HRC	HV	mil		µm	µm
1	65.6	852	2.0	2.0	32.9	33.1
2	52.2	547	4.0	4.0	41.2	41.1
3	50.4	519	6.0	6.0	41.7	42.9
4	45.8	456	8.0	8.0	45.0	45.1
5	61.5	732	10.0	10.0	34.6	36.6
6	56.1	615	12.0	12.0	38.4	39.2
7	64.1	803	14.0	14.0	33.9	34.0
8	61.9	743	16.0	16.0	34.4	36.2
9	60.7	714	18.0	18.0	36.0	36.1
10	58.3	659	20.0	20.0	37.2	37.9
11	42.2	415	22.0	22.0	47.2	47.4
12	63.3	781	24.0	24.0	34.4	34.5
13	49.4	504	26.0	26.0	42.7	43.1
14	56.0	614	28.0	28.0	38.4	39.4
15	61.5	732	30.0	30.0	35.2	35.9
16	57.1	635	35.0	35.0	38.1	38.4
17	53.2	564	40.0	40.0	40.7	40.4
18	45.8	456	50.0	50.0	45.0	45.1
19	46.6	466	60.0	60.0	44.2	45.0
20	49.2	502	70.0	70.0	43.4	42.6

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
110																
111			**Sample 30**													
112						Corr. Factor:	1.2									
113			Field	Hard.	Native Hardness	Depth		H Diag.	V Diag.							
114			#	HV	HV	mil		µm	µm							
115			1	56.7	627	2.0	3.2	39.1	37.9							
116			2	15.5	215	4.0	5.2	64.8	66.4							
117			3	50.2	516	6.0	7.2	41.9	42.9							
118			4	43.6	430	8.0	9.2	45.8	47.1							
119			5	32.5	322	10.0	11.2	53.1	54.2							
120			6	30.4	305	12.0	13.2	55.0	55.2							
121			7	26.6	276	14.0	15.2	57.7	58.2							
122			8	24.4	262	16.0	17.2	61.2	57.7							
123			9	49.2	501	18.0	19.2	42.7	43.4							
124			10	64.5	815	20.0	21.2	33.6	33.8							
125			11	30.5	306	22.0	23.2	56.0	54.2							
126			12	54.6	588	24.0	25.2	40.0	39.4							
127			13	46.8	469	26.0	27.2	44.1	44.9							
128			14	60.1	699	28.0	29.2	36.2	36.6							
129			15	40.6	398	30.0	31.2	48.6	47.9							
130			16	51.2	531	35.0	36.2	41.7	41.9							
131			17	39.2	384	40.0	41.2	48.6	49.6							
132			18	62.7	765	50.0	51.2	34.8	34.8							
133			19	51.6	537	60.0	61.2	41.5	41.6							
134			20	36.3	357	70.0	71.2	50.5	51.4							

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1																				
2																				
3																				
4			Maximum Trigger Pull											Maximum Trigger Pull						
5			(Normalized Units)											(pounds-force)						
6																				
7			Round Level											Round Level						
8			Sample	0	500	1000	1500	2000	3000	4000	5000			Sample	0	500	1000	1500	2000	3000
9			12	8196	8644	7473	6722	7610	7716	7604	8083			12	7.4	7.8	6.7	6.1	6.9	7.0
10			14	8471	8652	11087	8259	8137	7815	8108	7900			14	7.6	7.8	10.0	7.4	7.3	7.0
11			20	7261	8724	7260	7170	7092						20	6.5	7.9	6.5	6.5	6.4	
12			26	7652	7831	8500	8019	7910						26	6.9	7.1	7.7	7.2	7.1	
13			28	8224	7821	7741	8089	7092						28	7.4	7.0	7.0	7.3	6.4	
14			N1	7547	7849	7454	7856	8131	8331	8853	8891			N1	6.8	7.1	6.7	7.1	7.3	7.5
15			N2	7188	7591	7134	6512	7924						N2	6.5	6.8	6.4	5.9	7.1	
16																				
17																				
18																				
19																				
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48																				
49																				
50																				

	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8	4000	5000																
9	6.9	7.3																
10	7.3	7.1																
11																		
12																		
13																		
14	8.0	8.0																
15																		
16																		
17																		
18																		
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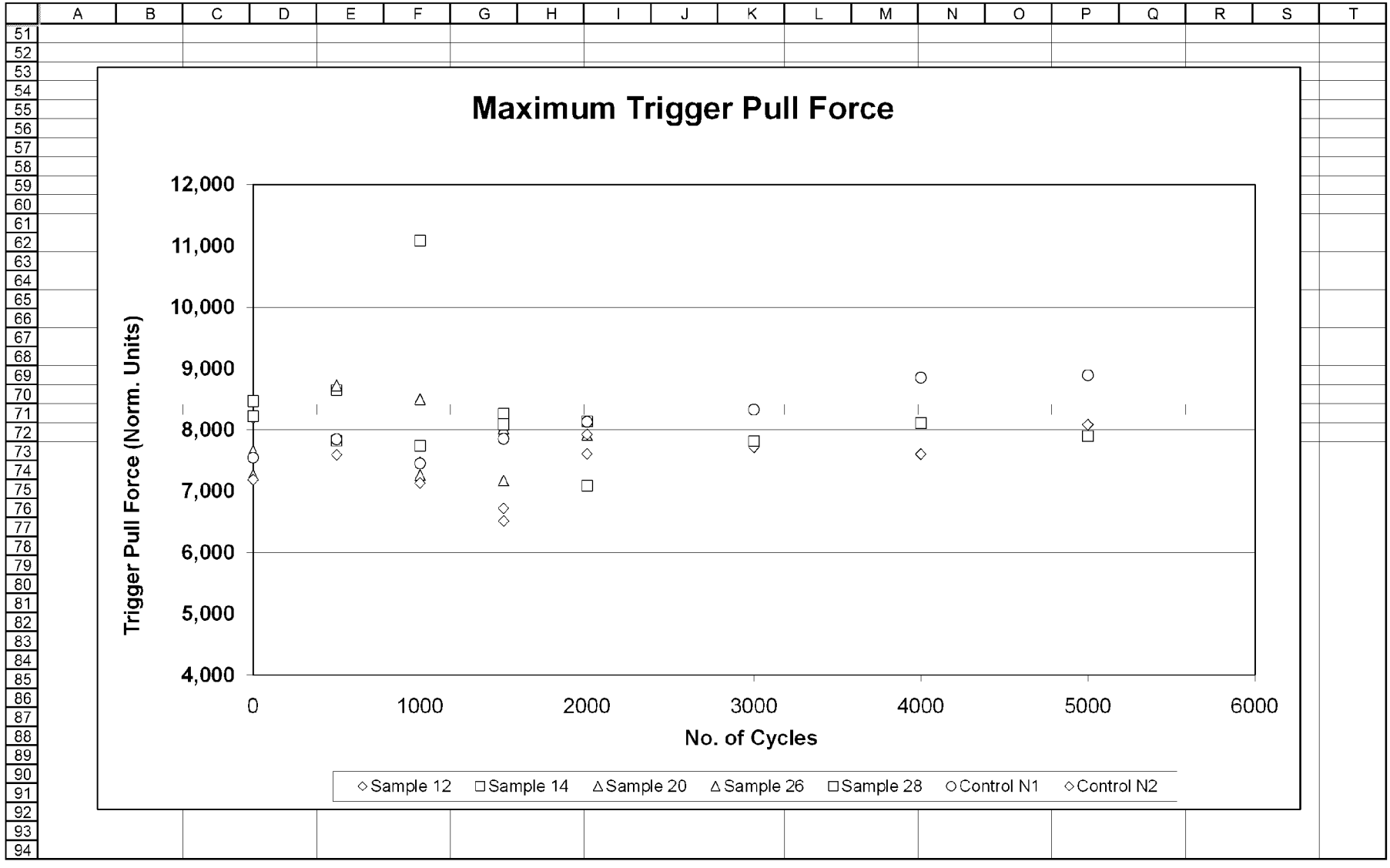
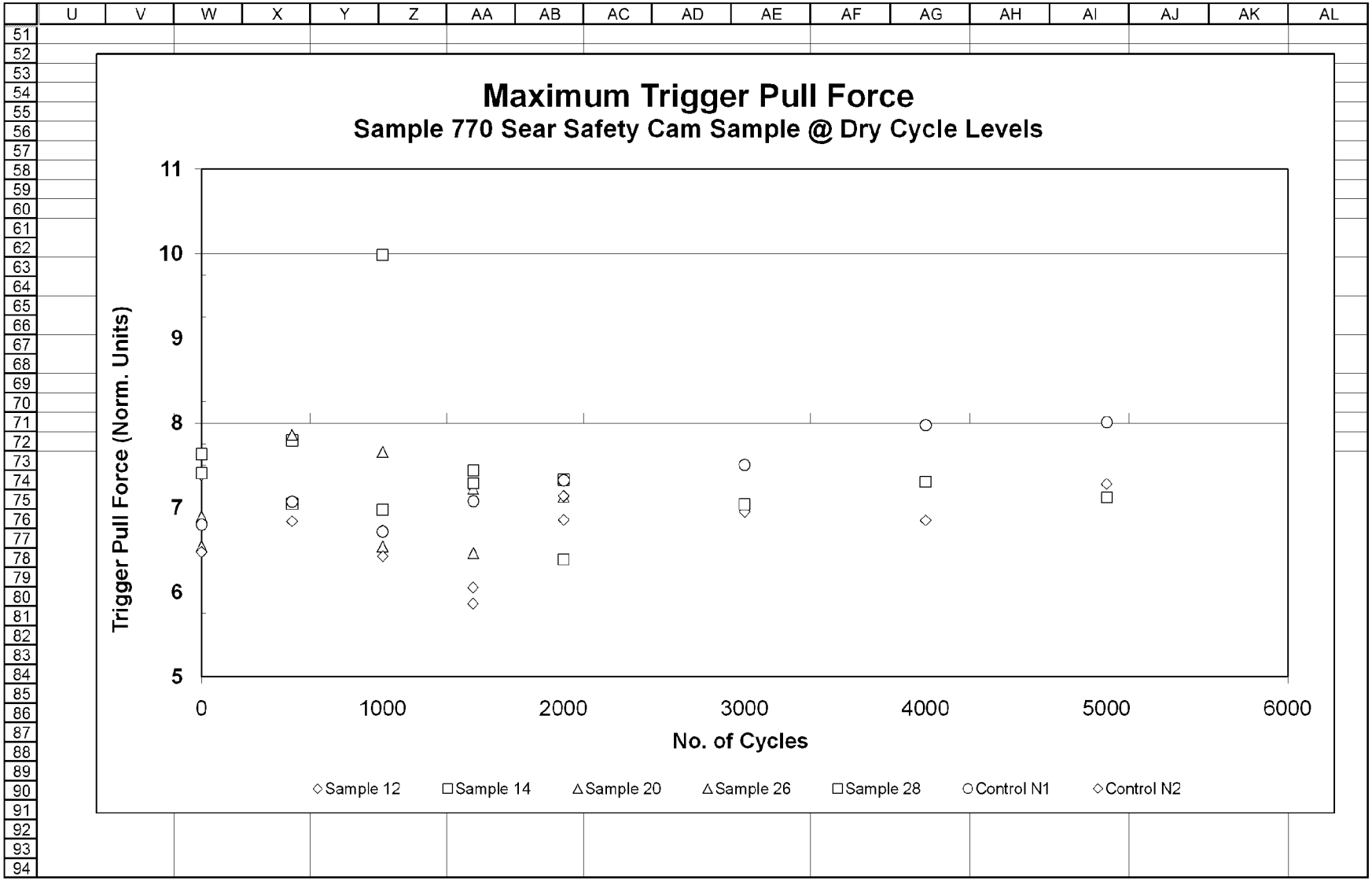
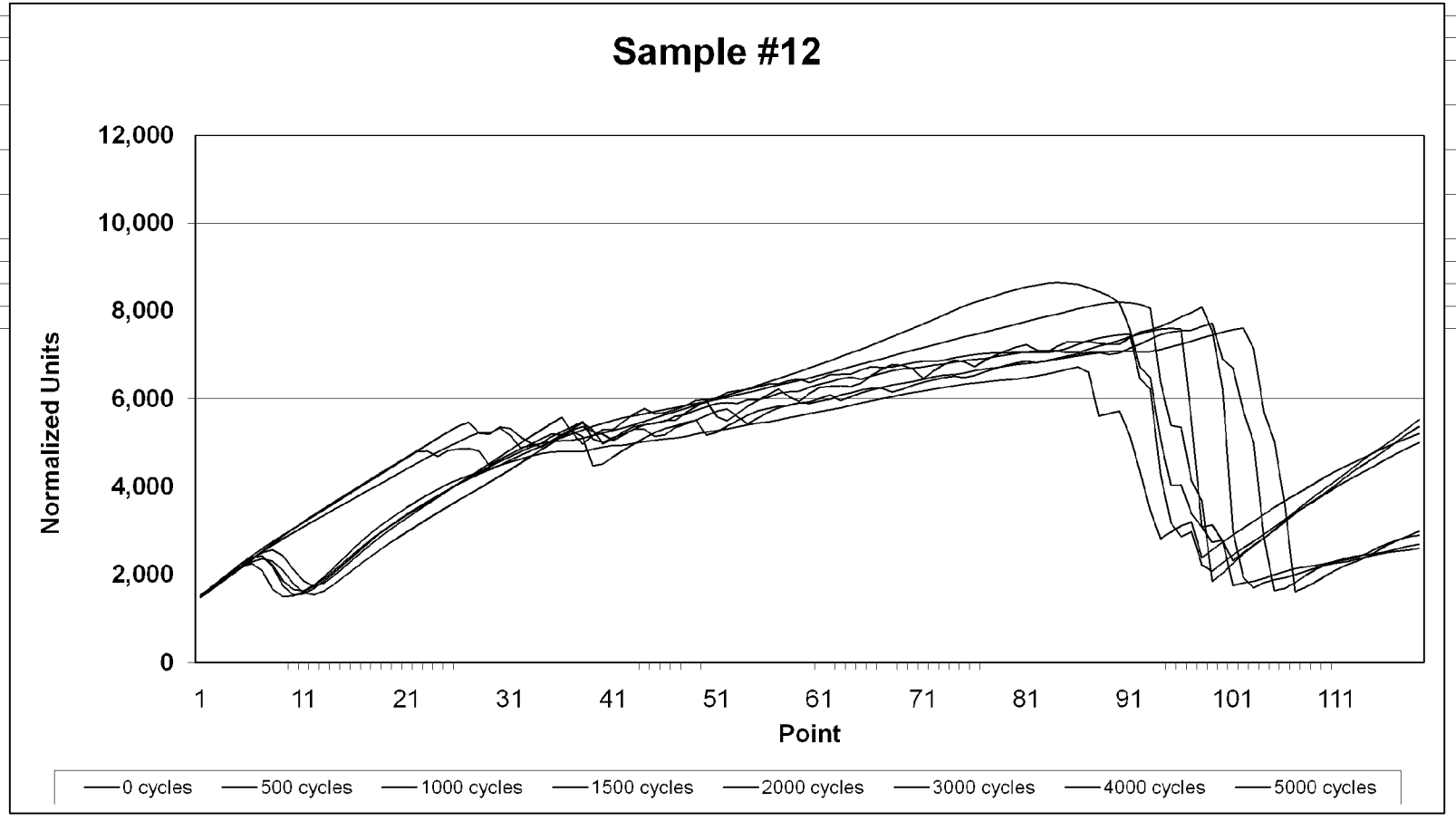

Maximum Trigger Pull Force
Trigger Pull Force (Norm. Units)
12,000
11,000
10,000
9,000
8,000
7,000
6,000
5,000
4,000
0
1000
2000
3000
4000
5000
6000
No. of Cycles
Sample 12
Sample 14
Sample 20
Sample 26
Sample 28
Control N1
Control N2


Maximum Trigger Pull Force
Sample 770 Sear Safety Cam Sample @ Dry Cycle Levels
Trigger Pull Force (Norm. Units)
11
10
9
8
7
6
5
0
1000
2000
3000
4000
5000
6000
No. of Cycles
Sample 12
Sample 14
Sample 20
Sample 26
Sample 28
Control N1
Control N2

	A
1	File:
2	Make:
3	Model:
4	Step Size [inch]:
5	Deflection [inch/lb]:



	B	C	D	E	F	G	H	I
1	770-12-0	8196	7.4				770-12-500	8644
2								
3	770						770	
4	0.0005						0.0005	
5	1.11E-06						1.11E-06	
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**	**Single Action**	**Single Action**
7	1401	1438	1565	1562	1493	1492	1494	1497
8	1569	1617	1744	1738	1681	1670	1690	1676
9	1745	1801	1925	1910	1865	1849	1874	1855
10	1916	1984	2094	2076	2040	2022	2055	2025
11	2074	2158	2240	2213	2193	2176	2219	2194
12	2166	2277	2245	2274	2285	2249	2329	2333
13	1993	2211	1915	2090	2210	2084	2207	2384
14	1499	1785	1517	1676	1846	1665	1669	2112
15	1512	1480	1457	1488	1539	1495	1417	1596
16	1684	1401	1593	1452	1453	1517	1574	1409
17	1872	1414	1777	1482	1469	1603	1758	1444
18	2076	1498	1974	1571	1561	1736	1957	1552
19	2282	1647	2186	1703	1720	1908	2166	1713
20	2491	1828	2393	1867	1912	2098	2384	1893
21	2705	2037	2586	2045	2127	2300	2594	2093
22	2925	2251	2755	2237	2346	2503	2810	2291
23	3136	2466	2928	2426	2555	2702	3025	2489
24	3327	2656	3098	2614	2730	2885	3248	2668
25	3509	2832	3268	2779	2882	3054	3444	2814
26	3688	2996	3426	2941	3024	3215	3581	2950
27	3862	3155	3579	3097	3145	3368	3746	3086
28	4033	3296	3721	3257	3264	3514	3912	3211
29	4202	3429	3855	3413	3383	3656	4066	3342
30	4367	3553	3983	3566	3493	3792	4216	3467
31	4530	3677	4114	3712	3597	3926	4356	3594
32	4691	3790	4240	3866	3688	4055	4496	3716
33	4847	3908	4365	4019	3750	4178	4633	3831
34	5001	4025	4481	4172	3768	4289	4776	3929
35	5148	4139	4590	4319	3739	4387	4912	4020
36	5287	4257	4686	4469	3723	4484	5047	4099
37	5413	4390	4769	4618	3814	4601	5178	4169
38	5496	4524	4827	4774	3943	4713	5302	4237
39	5554	4667	4876	4917	4079	4819	5419	4323
40	5610	4799	4926	5060	4213	4922	5475	4372
41	5656	4936	4992	5183	4345	5022	5534	4354
42	5709	5060	5058	5270	4484	5116	5590	4303
43	5748	5188	5132	5322	4624	5203	5636	4331
44	5781	5307	5208	5367	4766	5286	5709	4389
45	5829	5423	5285	5405	4902	5369	5774	4500
46	5876	5497	5340	5459	5035	5441	5824	4608
47	5913	5556	5381	5519	5163	5506	5882	4711
48	5966	5615	5427	5580	5245	5567	5955	4795
49	6018	5670	5467	5618	5295	5614	6025	4874
50	6066	5724	5506	5663	5336	5659	6102	4948

	J	K	L	M	N	O	P	Q
1	7.8				770-12-1000	7473	6.7	
2								
3					770			
4					0.0005			
5					1.11E-06			
6	**Single Action**	**Single Action**	**Single Action**	**Avg.**	**Single Action**	**Single Action**	**Single Action**	**Single Action**
7	1513	1580	1479	1513	1516	1567	1547	1471
8	1705	1780	1697	1710	1665	1750	1726	1648
9	1890	1962	1901	1896	1816	1924	1909	1824
10	2071	2148	2078	2075	1952	2106	2091	2010
11	2243	2322	2247	2245	2087	2280	2275	2192
12	2392	2478	2401	2387	2219	2441	2445	2371
13	2478	2556	2485	2422	2348	2545	2599	2531
14	2387	2382	2366	2183	2461	2440	2677	2643
15	1994	1799	1911	1743	2551	1897	2473	2567
16	1580	1523	1575	1532	2568	1525	1881	2071
17	1507	1544	1528	1556	2314	1553	1653	1672
18	1598	1677	1623	1681	1764	1701	1754	1695
19	1762	1848	1780	1854	1605	1894	1933	1842
20	1951	2045	1963	2047	1734	2108	2129	2031
21	2159	2252	2162	2252	1918	2319	2331	2226
22	2369	2460	2369	2460	2109	2535	2535	2427
23	2576	2663	2573	2665	2306	2742	2737	2623
24	2769	2867	2775	2865	2502	2950	2921	2813
25	2917	3067	2971	3043	2684	3152	3090	2980
26	3065	3239	3156	3198	2832	3355	3252	3144
27	3205	3394	3310	3348	2982	3543	3417	3304
28	3331	3555	3476	3497	3130	3719	3575	3471
29	3456	3707	3638	3642	3278	3893	3741	3631
30	3590	3857	3801	3786	3420	4075	3903	3799
31	3731	4001	3961	3929	3562	4248	4077	3970
32	3865	4149	4116	4068	3700	4424	4247	4144
33	4004	4288	4262	4204	3842	4590	4415	4313
34	4128	4421	4403	4331	3984	4756	4576	4484
35	4251	4548	4540	4454	4130	4917	4745	4647
36	4365	4676	4676	4573	4270	5083	4906	4822
37	4478	4794	4811	4686	4412	5237	5072	4990
38	4565	4921	4945	4794	4554	5399	5236	5164
39	4645	5038	5078	4901	4695	5554	5404	5334
40	4693	5145	5209	4979	4832	5713	5570	5493
41	4713	5215	5320	5027	4966	5862	5728	5647
42	4717	5216	5386	5042	5099	5987	5873	5787
43	4728	5190	5405	5058	5194	5475	5084	5121
44	4774	5217	5411	5100	4641	5196	4766	4860
45	4842	5248	5437	5160	4789	5421	4977	5085
46	4901	5277	5496	5221	4968	5615	5181	5285
47	4971	5305	5535	5281	5141	5785	5370	5466
48	5037	5351	5561	5340	5301	5948	5547	5644
49	5133	5402	5611	5409	5453	6093	5718	5811
50	5228	5461	5687	5485	5578	6146	5858	5938

	R	S	T	U	V	W	X	Y
1			770-12-1500	6722	6.1			
2								
3			770					
4			0.0005					
5			1.11E-06					
6	**Single Action**	**Avg.**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1465	1513	1479	1542	1403	1565	1525	1503
8	1637	1685	1648	1730	1585	1756	1716	1687
9	1806	1856	1828	1922	1769	1954	1911	1877
10	1983	2028	2006	2117	1941	2151	2110	2065
11	2155	2198	2161	2309	2110	2343	2306	2246
12	2323	2360	2234	2471	2265	2500	2469	2388
13	2463	2497	2038	2551	2400	2549	2554	2418
14	2581	2560	1542	2360	2488	2281	2408	2216
15	2645	2427	1471	1774	2450	1728	1854	1855
16	2533	2116	1658	1516	2023	1556	1546	1660
17	2058	1850	1873	1565	1510	1630	1572	1630
18	1712	1725	2106	1719	1439	1804	1720	1758
19	1763	1807	2335	1934	1535	2027	1930	1952
20	1933	1987	2569	2161	1707	2260	2157	2171
21	2129	2185	2802	2395	1927	2497	2394	2403
22	2332	2388	3038	2621	2155	2725	2623	2632
23	2532	2588	3254	2825	2387	2923	2825	2843
24	2723	2782	3448	3004	2602	3099	3007	3032
25	2890	2959	3626	3173	2794	3263	3186	3208
26	3042	3125	3797	3326	2961	3411	3358	3371
27	3180	3285	3966	3474	3127	3545	3518	3526
28	3316	3442	4141	3605	3279	3666	3660	3670
29	3443	3597	4308	3738	3418	3787	3805	3811
30	3569	3753	4467	3862	3531	3896	3948	3941
31	3686	3909	4608	3988	3627	3997	4091	4062
32	3809	4065	4747	4097	3682	4060	4228	4163
33	3926	4217	4873	4202	3752	4065	4348	4248
34	4048	4370	4990	4283	3810	4094	4459	4327
35	4176	4523	5063	4362	3862	4204	4536	4405
36	4311	4678	5106	4456	3907	4338	4616	4485
37	4446	4831	5104	4570	3954	4469	4685	4556
38	4581	4987	5112	4672	3988	4591	4773	4627
39	4708	5139	5132	4722	4032	4708	4872	4693
40	4844	5290	5132	4767	4074	4815	4979	4753
41	4981	5437	5155	4818	4100	4794	5079	4789
42	5122	5574	5199	4826	4061	4771	5160	4803
43	5263	5227	5198	4872	4027	4821	5053	4794
44	5390	4971	5223	4897	4103	4829	4921	4795
45	5519	5158	5286	4883	4216	4796	5079	4852
46	5445	5299	5341	4828	4319	4823	5193	4901
47	4747	5302	5390	4863	4420	4844	5174	4938
48	4974	5483	5440	4907	4504	4847	5022	4944
49	5171	5649	5479	4927	4559	4874	5105	4989
50	5351	5774	5518	4953	4548	4924	5179	5024

	Z	AA	AB	AC	AD	AE	AF	AG
1	770-12-2000	7610	6.9				770-12-3000	7716
2								
3	770						770	
4	0.0005						0.0005	
5	1.11E-06						1.11E-06	
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**	**Single Action**	**Single Action**
7	1451	1479	1441	1464	1529	1473	1468	1481
8	1610	1655	1603	1635	1708	1642	1650	1642
9	1782	1838	1783	1817	1891	1822	1831	1809
10	1948	2017	1958	1993	2062	1996	2012	1979
11	2098	2188	2132	2157	2215	2158	2197	2154
12	2227	2339	2287	2285	2312	2290	2382	2330
13	2337	2456	2400	2324	2287	2361	2569	2500
14	2427	2468	2397	2174	2046	2302	2745	2652
15	2485	2208	2179	1885	1706	2093	2907	2797
16	2453	1681	1770	1620	1435	1792	3061	2930
17	2148	1492	1449	1407	1414	1582	3216	3059
18	1599	1641	1458	1486	1517	1540	3368	3180
19	1429	1822	1586	1627	1667	1626	3511	3308
20	1537	1997	1761	1805	1844	1789	3643	3435
21	1690	2178	1944	1989	2025	1965	3779	3564
22	1863	2356	2133	2173	2210	2147	3910	3688
23	2040	2539	2312	2348	2389	2326	4037	3813
24	2206	2703	2491	2521	2569	2498	4158	3936
25	2384	2856	2661	2674	2736	2662	4275	4063
26	2551	3006	2819	2824	2895	2819	4394	4190
27	2696	3153	2970	2972	3050	2968	4515	4318
28	2839	3296	3123	3119	3206	3117	4634	4436
29	2977	3436	3268	3268	3358	3261	4749	4556
30	3114	3575	3419	3417	3515	3408	4854	4663
31	3248	3714	3566	3562	3663	3551	4945	4762
32	3382	3844	3711	3704	3804	3689	5027	4855
33	3514	3970	3845	3836	3929	3819	5103	4959
34	3650	4101	3990	3972	4076	3958	5082	5054
35	3779	4232	4136	4126	4229	4100	4506	5150
36	3905	4357	4281	4281	4388	4242	4640	5249
37	4026	4486	4425	4435	4550	4384	4757	5338
38	4150	4620	4587	4591	4718	4533	4841	5359
39	4265	4759	4744	4756	4885	4682	4901	4917
40	4384	4902	4913	4925	5059	4837	4972	4483
41	4497	5053	5076	5094	5228	4990	5033	4700
42	4603	5203	5208	5262	5402	5136	5065	4867
43	4663	5350	5325	5420	5572	5266	5094	5003
44	4441	5024	5480	5023	5725	5139	5138	5108
45	4549	4318	4729	4357	4420	4475	5019	5204
46	4591	4539	4419	4591	4424	4513	5057	5305
47	4579	4738	4644	4791	4663	4683	5140	5345
48	4575	4908	4839	4972	4876	4834	5185	5154
49	4570	5066	5000	5142	5059	4967	5213	5300
50	4614	5200	5156	5304	5246	5104	5228	5385

	AH	AI	AJ	AK	AL	AM	AN	AO
1	7.0				770-12-4000	7604	6.9	
2								
3					770			
4					0.0005			
5					1.11E-06			
6	**Single Action**	**Single Action**	**Single Action**	**Avg.**	**Single Action**	**Single Action**	**Single Action**	**Single Action**
7	1482	1479	1508	1484	1509	1540	1497	1574
8	1659	1628	1656	1647	1634	1730	1681	1751
9	1832	1785	1817	1815	1805	1923	1866	1933
10	1993	1947	1984	1983	1986	2117	2056	2114
11	2154	2122	2156	2157	2156	2312	2246	2301
12	2319	2297	2326	2331	2319	2482	2423	2463
13	2503	2470	2496	2508	2485	2634	2591	2614
14	2677	2620	2643	2667	2640	2779	2764	2753
15	2834	2756	2773	2813	2791	2930	2914	2887
16	2965	2885	2904	2949	2947	3083	3062	3020
17	3093	3018	3039	3085	3101	3240	3213	3158
18	3216	3154	3171	3218	3252	3393	3365	3293
19	3346	3292	3309	3353	3401	3547	3514	3432
20	3477	3426	3441	3484	3550	3696	3660	3569
21	3616	3561	3575	3619	3699	3851	3803	3713
22	3751	3692	3706	3749	3848	4004	3949	3855
23	3884	3828	3843	3881	3997	4160	4090	4004
24	4009	3966	3980	4010	4142	4312	4240	4151
25	4132	4110	4121	4140	4283	4463	4390	4304
26	4257	4254	4261	4271	4427	4607	4540	4452
27	4395	4401	4400	4406	4573	4754	4679	4599
28	4530	4538	4536	4535	4714	4884	4825	4746
29	4671	4677	4672	4665	4844	4358	4966	4893
30	4802	4811	4806	4787	3974	4210	5109	5037
31	4930	4951	4943	4906	3979	4405	5243	5185
32	5054	5090	5077	5021	4179	4550	4836	5319
33	5181	5231	5217	5138	4321	4676	4344	5441
34	5304	5361	5354	5231	4422	4794	4591	5261
35	5437	5494	5490	5215	4516	4893	4783	4085
36	5547	5614	5622	5334	4586	4867	4951	4355
37	4385	5594	5760	5167	4600	4820	5109	4586
38	4308	4022	5892	4884	4611	4853	5263	4788
39	4562	4280	6028	4938	4634	4897	5415	4960
40	4744	4533	6160	4978	4676	4997	5540	5128
41	4893	4741	6298	5133	4759	5101	5535	5316
42	5033	4855	6435	5251	4836	5127	4979	5497
43	5161	4989	6576	5365	4872	5181	5147	5654
44	5304	5130	6709	5478	4906	5191	5347	5772
45	5434	5265	4517	5088	4969	5220	5499	5885
46	5493	5151	3986	4998	5007	5214	5565	5310
47	5602	5275	4228	5118	5046	5252	5194	4626
48	5725	5441	4468	5195	5068	5293	5313	4895
49	5827	5542	4632	5303	5114	5330	5491	5128
50	5517	5609	4779	5304	5132	5400	5610	5308

	AP	AQ	AR	AS	AT	AU	AV	AW
1			770-12-5000	8083				
2								
3								
4			0.0005					
5			1.11E-06					
6	**Single Action**	**Avg.**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1547	1533	1418	1513	1556	1456	1418	1472
8	1723	1704	1604	1682	1722	1627	1576	1642
9	1902	1886	1788	1858	1893	1804	1739	1816
10	2085	2072	1979	2044	2065	1988	1902	1996
11	2274	2258	2166	2228	2243	2171	2073	2176
12	2449	2427	2358	2410	2417	2357	2241	2357
13	2613	2587	2545	2574	2591	2540	2415	2533
14	2772	2742	2727	2737	2755	2723	2587	2706
15	2928	2890	2885	2895	2914	2902	2766	2872
16	3078	3038	3042	3058	3070	3085	2939	3039
17	3230	3188	3194	3212	3226	3259	3109	3200
18	3374	3335	3345	3367	3375	3424	3269	3356
19	3519	3483	3488	3517	3525	3577	3428	3507
20	3662	3627	3631	3669	3670	3725	3580	3655
21	3815	3776	3771	3819	3815	3867	3732	3801
22	3964	3924	3912	3973	3954	4015	3881	3947
23	4113	4073	4051	4118	4102	4165	4033	4094
24	4259	4221	4191	4266	4243	4316	4185	4240
25	4408	4370	4323	4408	4391	4464	4338	4385
26	4555	4516	4451	4557	4533	4614	4489	4529
27	4701	4661	4567	4695	4677	4763	4645	4669
28	4841	4802	4687	4842	4819	4919	4795	4812
29	4988	4810	4813	4978	4967	5072	4952	4956
30	5130	4692	4943	5119	5111	5230	5105	5102
31	5273	4817	5053	5257	5259	5383	5261	5243
32	5411	4859	5146	5396	5406	5537	5408	5379
33	5556	4868	4985	5524	5559	5685	5562	5463
34	4954	4804	4276	4546	5705	5838	5709	5215
35	4101	4476	4500	3773	5856	5983	5859	5194
36	4338	4619	4654	3999	5998	6132	6001	5357
37	4566	4736	4754	4201	6146	5349	6144	5319
38	4756	4854	4845	4364	6286	3878	6289	5132
39	4936	4968	4907	4521	5017	4057	6439	4988
40	5102	5089	4963	4665	3996	4283	6581	4898
41	5291	5200	5033	4816	4151	4473	6729	5040
42	5453	5178	5073	4969	4366	4646	6865	5184
43	5582	5287	5140	5108	4537	4797	7003	5317
44	5610	5365	5216	5221	4712	4998	7142	5458
45	4706	5256	5298	5322	4878	5195	5787	5296
46	4869	5193	5390	5381	5076	5368	3670	4977
47	5113	5046	5474	5397	5282	5504	3797	5091
48	5318	5177	5558	5557	5460	5642	4033	5250
49	5475	5308	5616	5603	5601	5788	4229	5367
50	5595	5409	5305	5687	5736	5933	4389	5410

	B	C	D	E	F	G	H	I
51	6112	5789	5557	5716	5361	5707	6179	5041
52	6147	5848	5607	5760	5415	5755	6257	5115
53	6193	5900	5649	5793	5468	5801	6316	5185
54	6245	5938	5690	5856	5515	5849	6371	5254
55	6284	5988	5732	5916	5552	5894	6453	5323
56	6322	6026	5757	5986	5589	5936	6529	5397
57	6370	6078	5802	6050	5631	5986	6606	5471
58	6427	6125	5846	6111	5675	6037	6658	5544
59	6483	6167	5901	6176	5725	6090	6723	5627
60	6546	6195	5954	6234	5784	6143	6828	5712
61	6612	6222	6016	6298	5842	6198	6933	5787
62	6673	6243	6085	6374	5903	6256	7019	5866
63	6733	6278	6150	6433	5958	6310	7090	5950
64	6785	6322	6215	6489	6017	6366	7156	6026
65	6840	6372	6279	6540	6069	6420	7231	6101
66	6899	6421	6330	6601	6128	6476	7325	6160
67	6971	6473	6392	6665	6194	6539	7410	6223
68	7035	6516	6462	6738	6250	6600	7487	6285
69	7110	6568	6529	6793	6306	6661	7566	6375
70	7184	6628	6593	6867	6369	6728	7635	6453
71	7250	6678	6661	6930	6425	6789	7711	6529
72	7311	6744	6716	6997	6481	6850	7804	6593
73	7364	6803	6773	7062	6550	6910	7900	6677
74	7414	6852	6839	7147	6618	6974	7986	6752
75	7470	6908	6911	7223	6698	7042	8084	6832
76	7531	6969	6976	7294	6769	7108	8160	6907
77	7592	7033	7035	7342	6819	7164	8244	6994
78	7647	7095	7097	7391	6887	7223	8347	7077
79	7709	7175	7159	7447	6950	7288	8446	7161
80	7776	7237	7212	7519	7008	7350	8538	7245
81	7829	7285	7265	7586	7073	7408	8622	7346
82	7883	7326	7320	7650	7119	7460	8664	7446
83	7951	7383	7381	7689	7180	7517	8663	7553
84	8030	7443	7439	7730	7247	7578	8692	7655
85	8099	7497	7503	7774	7305	7636	8719	7761
86	8164	7553	7568	7834	7362	7696	8708	7854
87	8227	7612	7632	7897	7425	7759	8708	7952
88	8292	7658	7696	7960	7483	7818	8632	8025
89	8362	7688	7773	8011	7530	7873	8596	8105
90	8439	7715	7847	8073	7566	7928	8574	8157
91	8508	7765	7909	8135	7626	7989	8529	8195
92	8563	7806	7964	8212	7692	8047	8397	8202
93	8608	7821	8025	8292	7746	8098	8202	8173
94	8633	7857	8076	8367	7809	8148	8164	8189
95	8614	7895	8103	8424	7877	8183	8095	8241
96	8557	7918	8090	8475	7942	8196	7723	8285
97	8420	7935	8057	8499	8007	8184	5198	8326
98	8275	7940	7960	8517	8052	8149	1432	8309
99	8019	7925	7789	8501	8072	8061	1648	8145
100	1726	7887	5818	8392	8066	6378	1798	7971

	J	K	L	M	N	O	P	Q
51	5319	5524	5744	5561	5634	5390	5939	5822
52	5399	5606	5803	5636	5660	5553	5963	5582
53	5470	5684	5874	5706	5551	5758	5986	5798
54	5538	5785	5954	5780	5462	5942	6075	5981
55	5607	5869	6023	5855	5542	6109	6164	6113
56	5685	5938	6079	5926	5599	6256	5987	6148
57	5770	6017	6141	6001	5674	6379	6116	6196
58	5848	6116	6218	6077	5753	6457	6272	6343
59	5922	6195	6276	6149	5804	6480	6343	6261
60	5996	6261	6336	6227	5797	6535	6371	6275
61	6077	6334	6398	6306	5801	6450	6507	6437
62	6144	6423	6469	6384	5897	6544	6476	6542
63	6220	6510	6533	6461	5937	6583	6452	6461
64	6292	6604	6608	6537	5952	6608	6616	6544
65	6374	6692	6684	6616	6022	6686	6687	6641
66	6462	6790	6780	6703	6108	6738	6204	6587
67	6552	6860	6869	6783	6188	6758	6338	6599
68	6634	6950	6969	6865	6205	6754	6520	6743
69	6725	7047	7072	6957	6241	6735	6668	6631
70	6801	7139	7188	7043	6316	6816	6727	6459
71	6880	7214	7297	7126	6413	6913	6756	6624
72	6950	7316	7420	7217	6477	6954	6795	6761
73	7037	7420	7548	7316	6443	6895	6814	6791
74	7123	7522	7680	7413	6487	6907	6829	6802
75	7217	7607	7798	7508	6560	6972	6890	6798
76	7309	7704	7922	7600	6638	7016	6904	6815
77	7412	7821	8025	7699	6741	7030	6877	6862
78	7510	7944	8134	7802	6775	7007	6862	6874
79	7632	8048	8255	7908	6823	7007	6905	6902
80	7753	8138	8384	8012	6854	7058	6940	6991
81	7860	8230	8497	8111	6883	7108	6981	7037
82	7959	8304	8612	8197	6899	7158	7035	7049
83	8058	8358	8706	8268	6923	7198	7094	7068
84	8138	8430	8797	8342	6919	7206	7136	7082
85	8225	8508	8888	8420	6937	7166	7164	7087
86	8295	8581	8977	8483	6955	7171	7165	7120
87	8371	8659	9033	8545	6982	7128	7158	7139
88	8445	8728	9087	8583	6998	7125	7113	7147
89	8483	8775	9158	8623	7035	7195	7078	7113
90	8459	8789	9242	8644	7080	7313	7094	7137
91	8413	8708	9288	8627	7120	7422	7176	7238
92	8436	8665	9295	8599	7131	7553	7287	7356
93	8469	8621	9162	8525	7084	7653	7413	7480
94	8440	8325	9068	8437	7000	7707	7534	7600
95	8401	8065	8887	8338	7000	7678	7641	7643
96	8334	7954	8612	8182	7066	7658	7675	7643
97	8228	7833	8334	7584	7150	7609	7652	7659
98	8113	7617	8142	6723	7232	2333	7692	7698
99	7894	6922	7807	6483	7311	1462	7729	7295
100	7561	1867	6138	5067	7355	1641	3577	1535

	R	S	T	U	V	W	X	Y
51	5511	5659	5564	5001	4531	4974	5196	5053
52	5635	5679	5619	5048	4547	5015	5197	5085
53	5676	5754	5661	5100	4568	5054	5139	5104
54	5766	5845	5718	5133	4589	5085	5192	5143
55	5888	5963	5763	5162	4631	5126	5291	5195
56	5912	5980	5816	5205	4677	5152	5342	5238
57	5728	6019	5850	5250	4730	5197	5334	5272
58	5889	6143	5903	5283	4767	5236	5365	5311
59	6017	6181	5967	5320	4800	5279	5427	5359
60	6103	6216	6021	5345	4832	5343	5497	5408
61	6158	6271	6058	5381	4877	5379	5540	5447
62	6214	6335	6098	5426	4917	5420	5480	5468
63	6267	6340	6149	5480	4961	5474	5501	5513
64	6357	6415	6206	5537	5002	5537	5552	5567
65	6212	6450	6257	5594	5048	5580	5583	5612
66	6218	6371	6320	5634	5100	5628	5625	5661
67	6388	6454	6378	5672	5162	5664	5661	5707
68	6533	6551	6424	5702	5203	5714	5707	5750
69	6513	6558	6483	5751	5251	5760	5733	5796
70	6490	6562	6541	5813	5307	5815	5769	5849
71	6583	6658	6584	5880	5368	5871	5809	5902
72	6650	6727	6627	5934	5422	5933	5856	5954
73	6592	6707	6665	5981	5475	5987	5908	6003
74	6600	6725	6706	6024	5516	6041	5956	6049
75	6645	6773	6754	6087	5571	6086	5996	6099
76	6742	6823	6808	6128	5614	6110	6041	6140
77	6768	6856	6841	6169	5656	6137	6095	6180
78	6756	6855	6875	6219	5682	6175	6139	6218
79	6764	6880	6928	6266	5709	6199	6190	6258
80	6815	6932	6969	6315	5732	6240	6231	6297
81	6850	6972	6991	6370	5762	6281	6263	6333
82	6886	7005	6984	6415	5786	6305	6296	6357
83	6887	7034	6976	6470	5811	6322	6317	6379
84	6886	7046	7025	6511	5833	6341	6344	6411
85	6873	7045	7071	6547	5865	6305	6371	6432
86	6871	7056	7159	6565	5880	6270	6381	6451
87	6870	7055	7266	6580	5896	6295	6358	6479
88	6873	7051	7380	6602	5906	6352	6343	6517
89	6838	7052	7449	6650	5930	6418	6369	6563
90	6806	7086	7507	6717	5934	6521	6409	6618
91	6799	7151	7509	6812	5936	6623	6479	6672
92	6881	7242	7503	6889	5933	6697	6586	6722
93	6983	7323	6656	6954	5960	6754	6703	6605
94	7060	7380	1491	6982	5999	6769	6792	5607
95	7142	7421	1623	7000	6056	6787	6849	5663
96	7234	7455	1821	7002	6123	6763	6872	5716
97	7293	7473	2050	6984	6204	3667	6884	5158
98	7322	6455	2266	4798	6272	1526	6890	4350
99	7294	6218	2421	1481	6338	1714	5316	3454
100	7263	4274	2565	1680	6379	1873	1560	2811

	Z	AA	AB	AC	AD	AE	AF	AG
51	4666	5281	5286	5459	5439	5226	5224	5404
52	4711	5333	5375	5568	5623	5322	5245	5454
53	4765	5397	5351	5618	5785	5383	5259	5530
54	4804	5444	5464	5671	5892	5455	5311	5275
55	4854	5428	5535	5796	5932	5509	5368	5243
56	4911	5464	5337	5163	4980	5171	5414	5420
57	4945	5522	5485	5109	5122	5237	5442	5515
58	4998	5583	5626	5332	5360	5380	5497	5578
59	5043	5704	5676	5521	5569	5503	5540	5668
60	5095	5804	5779	5690	5756	5625	5572	5727
61	5135	5791	5906	5848	5934	5723	5609	5614
62	5207	5799	5840	5946	6112	5781	5660	5643
63	5277	5947	5755	5930	6228	5827	5670	5740
64	5348	6034	5912	6062	5881	5847	5712	5761
65	5411	5904	5985	6181	6054	5907	5757	5823
66	5472	5959	6006	5933	6262	5926	5794	5883
67	5523	6026	6042	6004	6442	6007	5832	5932
68	5610	6070	6029	6145	6558	6082	5897	5945
69	5670	6120	6057	6229	5739	5963	5956	5982
70	5729	6171	6149	6265	5928	6048	6008	6001
71	5787	6226	6209	6290	6151	6133	6043	6037
72	5839	6273	6230	6342	6340	6205	6080	6094
73	5888	6305	6237	6369	6490	6258	6120	6168
74	5964	6339	6279	6400	6592	6315	6178	6193
75	6011	6369	6330	6441	6616	6353	6218	6229
76	6065	6421	6383	6465	6645	6396	6258	6229
77	6118	6453	6430	6502	6728	6446	6284	6267
78	6171	6519	6476	6563	6782	6502	6307	6322
79	6233	6569	6516	6578	6797	6539	6349	6375
80	6281	6608	6550	6561	6749	6550	6396	6430
81	6326	6644	6571	6593	6799	6587	6446	6461
82	6395	6678	6620	6632	6898	6645	6501	6456
83	6451	6723	6641	6681	6908	6681	6538	6517
84	6525	6771	6647	6710	6875	6706	6598	6582
85	6573	6792	6682	6737	6917	6740	6659	6630
86	6602	6826	6753	6763	6937	6776	6726	6676
87	6612	6869	6780	6809	6958	6806	6772	6739
88	6617	6892	6810	6849	6983	6830	6801	6796
89	6623	6913	6855	6893	7025	6862	6821	6836
90	6662	6944	6901	6932	7074	6903	6843	6858
91	6704	6979	6932	6965	7102	6936	6853	6902
92	6740	7013	6980	7003	7137	6975	6876	6931
93	6763	7047	7026	7055	7166	7011	6882	6961
94	6796	7080	7071	7095	7197	7048	6903	6945
95	6834	7091	7110	7114	7233	7076	6978	6954
96	6882	7069	7119	7130	7255	7091	7074	6992
97	6916	7025	7088	7137	7229	7079	7167	6988
98	6942	6963	7058	7147	7202	7062	7263	7005
99	6928	6988	7100	7158	7190	7073	7344	7115
100	6911	7068	7177	7202	7252	7122	7419	7230

	AH	AI	AJ	AK	AL	AM	AN	AO
51	4759	5447	4882	5143	5188	5497	5653	5475
52	5032	5098	5057	5177	5267	5567	5729	5631
53	5288	5340	5308	5345	5348	5644	5774	5764
54	5481	5523	5530	5424	5414	5703	5813	5650
55	5606	5623	5725	5513	5463	5757	5897	5792
56	5708	5676	5884	5620	5507	5813	5940	5952
57	5844	5768	5984	5711	5584	5908	5920	6085
58	5798	5865	6092	5766	5652	5968	6057	5993
59	5175	5432	6161	5595	5701	6008	6180	5598
60	5466	5449	4931	5429	5717	6032	6166	5845
61	5676	5670	5247	5563	5737	6021	6048	6040
62	5814	5804	5538	5692	5713	6042	6170	6175
63	5912	5892	5739	5791	5735	6114	6288	6284
64	6010	5982	5823	5858	5780	6165	6352	6315
65	5962	6069	5941	5910	5847	6206	6370	6214
66	5942	5768	6084	5894	5902	6267	6459	6364
67	6028	5870	6064	5945	5964	6333	6507	6453
68	6062	6018	6045	5993	6027	6394	6528	6541
69	6176	6084	6228	6085	6098	6448	6576	6659
70	6257	6151	6259	6135	6160	6495	6625	6720
71	6336	6229	6362	6201	6228	6551	6690	6239
72	6257	6289	6465	6237	6280	6574	6711	6411
73	6196	6147	6563	6239	6324	6611	6699	6599
74	6287	6192	5919	6154	6367	6649	6802	6717
75	6288	6251	6108	6219	6430	6696	6833	6810
76	6378	6335	6322	6304	6470	6751	6810	6786
77	6453	6419	6445	6374	6514	6797	6862	6660
78	6514	6486	6520	6430	6575	6827	6892	6764
79	6525	6525	6615	6478	6608	6848	6911	6776
80	6500	6504	6728	6512	6624	6871	6966	6845
81	6517	6579	6385	6478	6647	6913	6977	6929
82	6603	6634	6466	6532	6665	6934	7009	6988
83	6699	6698	6628	6616	6696	6986	7067	6929
84	6768	6755	6745	6690	6693	7047	7101	6983
85	6839	6821	6846	6759	6731	7080	7093	7047
86	6850	6890	6939	6816	6792	7109	7116	7096
87	6825	6915	7037	6858	6848	7142	7140	7172
88	6881	6907	6728	6823	6884	7169	7177	7189
89	6912	6928	6857	6871	6928	7203	7159	7127
90	6969	6976	6967	6923	6943	7212	7143	7143
91	7037	7037	7068	6979	6962	7174	7067	7089
92	7091	7067	7150	7023	6988	7105	7083	7072
93	7088	7073	7245	7050	6986	7114	7193	7183
94	7049	7030	7353	7056	6967	7184	7295	7302
95	7064	7062	6965	7005	6917	7262	7386	7364
96	7060	7194	6911	7046	6916	7336	7494	7448
97	7125	7347	7110	7147	7011	7408	7559	7541
98	7228	7471	7244	7242	7087	7460	7599	7602
99	7343	7590	7374	7353	7165	7525	7625	7685
100	7452	7707	7479	7457	7231	7579	7689	7755

	AP	AQ	AR	AS	AT	AU	AV	AW
51	5412	5445	5093	5815	5899	5857	4532	5439
52	5255	5490	5265	5588	6057	5845	4755	5502
53	5487	5603	5376	4931	6204	6024	4999	5507
54	5653	5647	5484	5183	6342	6180	5204	5679
55	5770	5736	5588	5367	6476	6340	5352	5825
56	5877	5818	5682	5519	6592	6472	5489	5951
57	5964	5892	5739	5653	6032	4886	5658	5594
58	5881	5910	5835	5789	4935	5074	5844	5495
59	5987	5895	5937	5870	5172	5306	6038	5665
60	6125	5977	6023	6016	5395	5501	6211	5829
61	6085	5986	6098	6153	5578	5659	6354	5968
62	6062	6032	6149	6277	5740	5846	6484	6099
63	6189	6122	6132	6383	5908	6040	6642	6221
64	6176	6158	6058	6028	6110	6212	5814	6044
65	6204	6168	6089	5684	6282	6342	5308	5941
66	6319	6262	6196	5937	6425	6469	5582	6122
67	6394	6330	6272	6114	6560	6577	5778	6260
68	6453	6389	6304	6256	6690	6232	5939	6284
69	6486	6453	6346	6390	6544	6052	6126	6292
70	6458	6492	6418	6430	5875	6311	6333	6273
71	6519	6445	6454	6086	6174	6504	6553	6354
72	6599	6515	6530	6321	6397	6657	6735	6528
73	6670	6581	6618	6492	6565	6806	6892	6675
74	6686	6644	6696	6630	6710	6832	7029	6779
75	6631	6680	6732	6755	6874	6243	7196	6760
76	6678	6699	6751	6741	6524	6514	6844	6675
77	6779	6722	6762	6606	6470	6723	5708	6454
78	6783	6768	6766	6812	6702	6887	6011	6636
79	6808	6790	6791	6956	6866	7023	6243	6776
80	6855	6832	6837	7062	7009	7043	6428	6876
81	6884	6870	6825	7079	7152	6533	6612	6840
82	6879	6895	6869	6515	6683	6776	6809	6730
83	6903	6916	6930	6690	6786	6966	7001	6875
84	6964	6958	6971	6871	6996	7104	6991	6987
85	7025	6995	7038	6994	7151	7219	7046	7090
86	7052	7033	7126	7104	7274	7187	7195	7177
87	7042	7069	7185	7210	7408	6993	7356	7230
88	7018	7087	7211	7142	6871	7195	7117	7107
89	7035	7090	7245	7145	6915	7334	6632	7054
90	7002	7089	7285	7242	7125	7438	6886	7195
91	6961	7051	7289	7294	7277	7539	7088	7297
92	7020	7054	7299	7363	7401	7115	7249	7285
93	7143	7124	7299	7385	7529	6885	7419	7303
94	7251	7200	7276	7193	7115	7134	7592	7262
95	7353	7256	7296	7245	6963	7307	7418	7246
96	7440	7327	7360	7368	7199	7437	6844	7242
97	7529	7410	7461	7471	7365	7577	7087	7392
98	7606	7471	7569	7572	7505	7667	7280	7519
99	7669	7534	7639	7653	7657	7413	7470	7566
100	7674	7586	7707	7648	7616	7611	7660	7648

	B	C	D	E	F	G	H	I
101	1406	7773	1565	8232	8009	5397	1926	7848
102	1601	7654	1768	7835	7867	5345	2098	7661
103	1866	7598	1946	1527	7732	4134	2295	7528
104	2100	6136	2084	1691	6347	3672	2500	7419
105	2268	1571	2232	1686	1452	1842	2674	7061
106	2435	1806	2451	1823	1638	2031	2805	4535
107	2650	2017	2695	2034	1866	2252	2943	1521
108	2880	2184	2921	2322	2048	2471	3119	1650
109	3103	2334	3112	2555	2161	2653	3315	1764
110	3310	2553	3304	2697	2288	2830	3506	1926
111	3505	2787	3485	2856	2464	3019	3659	2130
112	3695	3007	3676	3055	2684	3223	3784	2337
113	3888	3192	3882	3281	2902	3429	3943	2516
114	4077	3380	4084	3476	3102	3624	4133	2637
115	4269	3562	4245	3648	3288	3802	4329	2781
116	4465	3753	4385	3793	3463	3972	4490	2972
117	4634	3953	4524	3931	3652	4139	4615	3183
118	4780	4159	4702	4077	3859	4315	4753	3379
119	4950	4333	4899	4251	4064	4499	4933	3536
120	5144	4486	5097	4417	4237	4676	5126	3662
121	5341	4622	5252	4571	4386	4834	5298	3838
122	5509	4797	5401	4705	4541	4991	5426	4039
123	5655	4978	5579	4845	4730	5157	5560	4243
124	5811	5158	5782	5014	4926	5338	5720	4407
125	5999	5306	5964	5213	5116	5520	5893	4531
126	6187	5444	6120	5392	5261	5681	6069	4671
127	6346	5600	6253	5545	5395	5828	6219	4858
128	6437	5777	6377	5676	5567	5967	6354	5056
129	6520	5948	6457	5835	5761	6104	6497	5237
130	6601	6108	6539	6012	5946	6241	6605	5368
131	6681	6248	6616	6189	6099	6367	6702	5504
132	6758	6378	6687	6307	6228	6472	6785	5668
133	6829	6468	6752	6390	6335	6555	6860	5851
134	6895	6559	6824	6473	6413	6633	6930	6021
135	6964	6641	6896	6562	6500	6713	7007	6170
136	7031	6713	6971	6650	6580	6789	7091	6303
137	7096	6776	7039	6741	6649	6860	7172	6463
138	7165	6847	7106	6815	6727	6932	7242	6586
139	7232	6912	7178	6884	6817	7005	7302	6694
140	7298	6984	7253	6954	6894	7077	7364	6777
141	7362	7049	7322	7028	6966	7145	7435	6849
142	7422	7117	7393	7102	7034	7214	7508	6914
143	7483	7179	7456	7174	7098	7278	7571	6989
144	7539	7245	7514	7237	7161	7339	7619	7065
145	7596	7307	7570	7300	7223	7399	7669	7147
146	7649	7375	7633	7357	7289	7461	7728	7211
147	7701	7435	7693	7420	7353	7520	7789	7268
148	7757	7492	7757	7479	7416	7580	7843	7326
149	7817	7538	7811	7540	7473	7636	7892	7395
150	7873	7592	7864	7590	7524	7689	7937	7458

	J	K	L	M	N	O	P	Q
101	7424	1441	1504	4029	7356	1817	1498	1728
102	7077	1656	1685	4035	7347	1974	1667	1892
103	3375	1868	1839	3381	7315	2114	1838	2040
104	1429	2041	1988	3075	2917	2281	1991	2214
105	1537	2188	2177	3127	1553	2466	2149	2407
106	1727	2354	2390	2762	1737	2655	2340	2602
107	1950	2568	2602	2317	1911	2815	2538	2768
108	2175	2790	2775	2502	2066	2952	2721	2906
109	2363	2980	2908	2666	2206	3096	2862	3053
110	2500	3124	3070	2825	2369	3270	3005	3226
111	2659	3278	3276	3000	2550	3448	3171	3398
112	2868	3469	3490	3190	2732	3614	3355	3548
113	3091	3689	3675	3383	2895	3746	3523	3670
114	3295	3889	3808	3552	3035	3885	3663	3804
115	3451	4035	3949	3709	3175	4035	3786	3951
116	3594	4161	4123	3868	3343	4198	3931	4107
117	3778	4332	4323	4046	3513	4337	4084	4241
118	3989	4528	4507	4231	3676	4462	4232	4361
119	4191	4722	4643	4405	3807	4576	4353	4478
120	4351	4874	4764	4555	3935	4705	4473	4610
121	4476	5002	4924	4708	4084	4838	4596	4743
122	4632	5149	5100	4869	4249	4971	4729	4868
123	4828	5327	5274	5046	4399	5086	4859	4971
124	5031	5506	5415	5216	4530	5198	4976	5075
125	5198	5662	5531	5363	4650	5307	5077	5176
126	5327	5785	5656	5502	4791	5426	5187	5288
127	5463	5920	5809	5654	4942	5533	5291	5384
128	5638	6075	5969	5818	5084	5630	5402	5473
129	5821	6246	6119	5984	5201	5705	5491	5550
130	5994	6400	6233	6120	5314	5785	5570	5629
131	6130	6504	6349	6238	5429	5869	5646	5712
132	6266	6577	6474	6354	5553	5964	5733	5807
133	6417	6652	6574	6471	5670	6054	5824	5888
134	6549	6732	6657	6578	5777	6142	5914	5968
135	6651	6819	6730	6675	5870	6221	5992	6045
136	6732	6891	6788	6761	5970	6312	6073	6130
137	6797	6954	6854	6848	6065	6394	6156	6210
138	6867	7012	6923	6926	6172	6449	6248	6291
139	6942	7081	7001	7004	6265	6493	6332	6351
140	7024	7152	7070	7077	6332	6538	6399	6396
141	7094	7225	7124	7145	6375	6582	6438	6438
142	7156	7278	7174	7206	6425	6634	6484	6488
143	7210	7329	7236	7267	6473	6686	6529	6536
144	7276	7383	7297	7328	6534	6739	6582	6585
145	7344	7446	7358	7393	6584	6784	6630	6631
146	7416	7506	7403	7453	6635	6835	6679	6681
147	7469	7561	7450	7507	6682	6885	6724	6727
148	7519	7600	7497	7557	6738	6936	6771	6778
149	7570	7645	7555	7611	6791	6979	6819	6823
150	7631	7690	7604	7664	6847	7021	6869	6868

	R	S	T	U	V	W	X	Y
101	3499	3180	2742	1896	6416	2006	1766	2965
102	1401	2856	2953	2091	6405	2158	1922	3106
103	1547	2971	3150	2237	6160	2347	2073	3193
104	1691	2219	3307	2392	1401	2550	2263	2383
105	1837	2082	3438	2571	1597	2736	2468	2562
106	1997	2266	3587	2780	1782	2884	2665	2740
107	2189	2444	3751	2970	1932	3028	2820	2900
108	2384	2606	3918	3125	2054	3200	2964	3052
109	2565	2756	4051	3261	2215	3386	3125	3208
110	2709	2916	4170	3421	2410	3544	3309	3371
111	2857	3085	4301	3586	2611	3670	3475	3529
112	3021	3254	4455	3749	2784	3784	3607	3676
113	3196	3406	4602	3878	2929	3924	3722	3811
114	3354	3548	4731	3994	3074	4079	3857	3947
115	3487	3687	4826	4123	3255	4224	4006	4087
116	3612	3838	4938	4277	3430	4335	4159	4228
117	3757	3986	5070	4419	3580	4433	4278	4356
118	3908	4128	5206	4536	3697	4546	4377	4472
119	4056	4254	5307	4625	3822	4669	4487	4582
120	4174	4379	5394	4739	3967	4783	4609	4698
121	4291	4510	5485	4856	4122	4872	4727	4812
122	4413	4646	5591	4977	4252	4956	4826	4920
123	4543	4772	5689	5068	4355	5058	4906	5015
124	4661	4888	5782	5152	4450	5156	5006	5109
125	4771	4996	5853	5238	4571	5246	5110	5204
126	4865	5111	5939	5341	4693	5327	5211	5302
127	4972	5224	6033	5436	4802	5402	5295	5394
128	5073	5332	6138	5517	4884	5481	5373	5479
129	5175	5424	6228	5589	4973	5571	5451	5562
130	5263	5512	6305	5672	5073	5663	5545	5652
131	5346	5600	6376	5762	5175	5750	5638	5740
132	5416	5695	6456	5857	5260	5824	5732	5826
133	5502	5788	6517	5939	5339	5895	5806	5899
134	5583	5877	6572	6011	5410	5978	5881	5970
135	5665	5959	6617	6080	5496	6071	5964	6046
136	5739	6045	6660	6163	5588	6151	6057	6124
137	5814	6128	6705	6252	5683	6216	6137	6199
138	5888	6210	6760	6335	5760	6282	6210	6269
139	5972	6283	6813	6397	5833	6343	6275	6332
140	6046	6342	6860	6450	5909	6395	6354	6394
141	6115	6390	6902	6493	5998	6445	6417	6451
142	6177	6442	6949	6546	6085	6485	6467	6506
143	6247	6494	7000	6595	6157	6526	6509	6557
144	6315	6551	7055	6642	6215	6573	6551	6607
145	6386	6603	7101	6681	6282	6627	6594	6657
146	6439	6654	7144	6731	6358	6672	6646	6710
147	6481	6700	7188	6780	6414	6716	6695	6759
148	6518	6748	7239	6834	6457	6758	6737	6805
149	6565	6795	7282	6876	6498	6806	6778	6848
150	6611	6843	7321	6919	6539	6855	6825	6892

	Z	AA	AB	AC	AD	AE	AF	AG
101	6888	7159	7252	7268	7342	7182	7462	7333
102	6814	7243	7342	7347	7459	7241	7514	7409
103	6796	7318	7419	7449	7577	7312	7543	7475
104	6816	7361	7489	7551	7698	7383	7539	7494
105	6859	7413	7550	7627	7787	7447	7504	7530
106	6920	7483	7628	7677	7857	7513	3032	7598
107	6979	7529	7690	7734	7919	7570	1619	7683
108	7041	7504	7709	7790	8004	7610	1861	7723
109	7087	5030	7641	7826	8115	7140	2025	7735
110	7108	1445	3830	7842	8197	5684	2100	5637
111	7102	1585	1456	6855	8192	5038	2084	1593
112	6690	1727	1525	1517	6591	3610	2102	1839
113	1473	1858	1607	1589	1502	1606	2211	2018
114	1607	1947	1746	1671	1579	1710	2377	2141
115	1766	2022	1886	1799	1673	1829	2509	2145
116	1906	2133	2041	1973	1812	1973	2630	2121
117	1985	2295	2126	2138	1977	2104	2728	2196
118	2031	2451	2197	2247	2141	2213	2711	2355
119	2092	2568	2319	2308	2239	2305	2717	2492
120	2206	2651	2480	2403	2298	2408	2820	2616
121	2377	2765	2618	2549	2390	2540	2947	2734
122	2521	2899	2714	2696	2538	2674	3039	2758
123	2619	3027	2793	2800	2675	2783	3128	2748
124	2741	3126	2903	2867	2767	2881	3196	2814
125	2888	3219	3028	2952	2829	2983	3185	2937
126	3035	3312	3146	3068	2916	3095	3202	3043
127	3156	3410	3234	3180	3024	3201	3281	3121
128	3263	3510	3317	3273	3128	3298	3383	3219
129	3366	3606	3401	3345	3207	3385	3461	3240
130	3479	3691	3492	3422	3278	3472	3537	3245
131	3592	3772	3580	3505	3349	3560	3592	3295
132	3703	3848	3664	3590	3425	3646	3591	3395
133	3801	3930	3734	3666	3501	3726	3607	3478
134	3890	4005	3797	3733	3574	3800	3666	3553
135	3975	4069	3857	3786	3631	3864	3754	3627
136	4058	4129	3926	3846	3680	3928	3832	3656
137	4137	4195	3998	3910	3738	3996	3906	3656
138	4221	4272	4065	3981	3801	4068	3953	3701
139	4293	4351	4117	4046	3868	4135	3964	3780
140	4369	4422	4181	4104	3932	4202	3983	3864
141	4452	4486	4251	4162	3984	4267	4037	3933
142	4548	4546	4323	4235	4041	4339	4115	4006
143	4628	4615	4386	4314	4109	4410	4191	4032
144	4700	4689	4450	4383	4180	4480	4259	4045
145	4768	4760	4511	4444	4242	4545	4310	4083
146	4846	4824	4587	4503	4298	4612	4329	4156
147	4928	4884	4659	4570	4350	4678	4348	4228
148	5011	4952	4730	4641	4410	4749	4400	4302
149	5079	5023	4793	4707	4471	4815	4469	4358
150	5148	5095	4856	4763	4535	4879	4534	4390

	AH	AI	AJ	AK	AL	AM	AN	AO
101	7480	7708	7609	7518	7286	7626	7724	7728
102	7510	7611	7694	7548	7330	7650	7698	7647
103	7615	7776	7384	7559	7378	7608	3389	4656
104	7691	7860	7640	7645	7406	3652	1416	1553
105	7783	7912	7849	7716	7410	1419	1581	1697
106	7875	8011	7987	6901	7041	1584	1731	1810
107	7979	8113	8086	6696	1492	1735	1833	1842
108	7859	2947	8220	5722	1582	1831	1867	1878
109	5406	1475	8376	5003	1601	1864	1900	1948
110	1593	1500	3284	2823	1666	1896	1975	2027
111	1668	1427	1403	1635	1785	1968	2052	2093
112	1593	1432	1445	1682	1892	2044	2121	2159
113	1565	1595	1664	1811	1991	2116	2186	2183
114	1653	1811	1900	1976	2045	2179	2207	2205
115	1863	2026	2048	2118	2069	2203	2229	2255
116	2053	2169	2131	2221	2116	2227	2284	2319
117	2199	2237	2110	2294	2185	2282	2345	2375
118	2293	2216	2115	2338	2249	2344	2407	2431
119	2280	2241	2225	2391	2320	2406	2463	2449
120	2250	2358	2383	2485	2363	2459	2482	2475
121	2335	2512	2506	2607	2385	2478	2508	2526
122	2488	2627	2621	2707	2427	2502	2567	2587
123	2621	2732	2722	2790	2495	2560	2623	2637
124	2725	2820	2711	2853	2569	2616	2679	2667
125	2823	2812	2704	2892	2646	2666	2742	2676
126	2813	2826	2794	2936	2689	2688	2781	2705
127	2795	2929	2914	3008	2706	2718	2818	2783
128	2858	3044	3006	3102	2737	2763	2881	2864
129	2983	3128	3087	3180	2782	2829	2947	2934
130	3080	3209	3176	3249	2859	2892	3011	2988
131	3161	3283	3169	3300	2934	2963	3055	3019
132	3239	3278	3174	3335	2972	3017	3081	3055
133	3244	3302	3240	3374	2998	3052	3108	3104
134	3238	3374	3338	3434	3043	3085	3157	3164
135	3293	3467	3403	3509	3094	3140	3205	3220
136	3389	3531	3473	3576	3138	3202	3252	3264
137	3469	3600	3542	3635	3198	3269	3286	3284
138	3530	3656	3545	3677	3245	3317	3308	3305
139	3598	3660	3548	3710	3276	3347	3329	3336
140	3608	3667	3600	3744	3320	3372	3369	3372
141	3613	3726	3684	3799	3385	3418	3418	3395
142	3660	3805	3759	3869	3451	3471	3468	3403
143	3744	3878	3827	3934	3504	3520	3493	3403
144	3820	3947	3883	3991	3533	3543	3499	3410
145	3892	3997	3889	4034	3555	3545	3504	3439
146	3954	4001	3903	4069	3593	3546	3534	3474
147	3970	4016	3948	4102	3647	3570	3561	3503
148	3986	4070	4023	4156	3703	3601	3586	3526
149	4030	4141	4089	4217	3751	3626	3601	3529
150	4099	4205	4153	4276	3784	3649	3612	3544

	AP	AQ	AR	AS	AT	AU	AV	AW
101	7658	7604	7761	7661	7665	7780	7850	7743
102	7591	7583	7817	7781	7852	7925	7942	7863
103	4321	5470	7878	7885	7998	8066	7999	7965
104	1412	3088	7937	7995	8127	8221	8135	8083
105	1573	2736	7973	8091	8279	5057	8293	7539
106	1724	2778	7820	7556	5730	1549	8456	6222
107	1839	1748	1479	1747	1435	1703	8600	2993
108	1877	1807	1523	1551	1586	1778	3234	1934
109	1910	1845	1688	1705	1746	1797	1544	1696
110	1985	1910	1805	1814	1881	1870	1694	1813
111	2065	1993	1828	1835	1940	1974	1816	1879
112	2133	2070	1872	1879	1948	2062	1863	1925
113	2205	2136	1954	1960	2006	2150	1892	1992
114	2229	2173	2056	2061	2097	2187	1964	2073
115	2250	2201	2148	2149	2170	2212	2055	2147
116	2299	2249	2208	2207	2248	2263	2144	2214
117	2362	2310	2226	2223	2280	2333	2227	2258
118	2411	2368	2261	2255	2300	2391	2255	2292
119	2470	2422	2323	2317	2346	2457	2288	2346
120	2486	2453	2389	2380	2418	2482	2345	2403
121	2509	2481	2451	2438	2478	2502	2412	2456
122	2557	2528	2487	2473	2537	2547	2474	2504
123	2621	2587	2501	2487	2549	2598	2522	2531
124	2673	2641	2532	2514	2562	2640	2536	2557
125	2704	2687	2582	2561	2595	2679	2555	2594
126	2709	2714	2637	2612	2631	2684	2597	2632
127	2747	2754	2679	2647	2655	2694	2637	2662
128	2815	2812	2695	2662	2687	2724	2670	2688
129	2885	2875	2705	2669	2691	2753	2692	2702
130	2947	2939	2734	2693	2700	2783	2696	2721
131	2999	2994	2780	2731	2724	2810	2711	2751
132	3023	3030	2833	2765	2753	2822	2740	2783
133	3051	3063	2888	2794	2775	2840	2768	2813
134	3095	3109	2924	2808	2798	2880	2801	2842
135	3149	3162	2948	2816	2799	2931	2828	2864
136	3197	3211	2987	2838	2808	2987	2844	2893
137	3240	3255	3040	2868	2833	3033	2873	2929
138	3258	3287	3098	2901	2864	3058	2916	2967
139	3281	3314	3146	2926	2887	3085	2967	3002
140	3316	3350	3175	2946	2909	3121	3013	3033
141	3362	3396	3196	2970	2917	3161	3044	3058
142	3391	3437	3235	3013	2934	3202	3058	3088
143	3399	3464	3285	3066	2962	3232	3083	3126
144	3398	3477	3335	3126	3006	3254	3116	3167
145	3414	3491	3377	3174	3057	3282	3152	3208
146	3440	3517	3402	3209	3100	3320	3186	3243
147	3475	3551	3412	3236	3127	3363	3212	3270
148	3502	3584	3414	3276	3162	3401	3230	3297
149	3524	3606	3425	3322	3205	3409	3255	3323
150	3533	3624	3477	3370	3252	3400	3289	3358

	B	C	D	E	F	G	H	I
151	7920	7646	7915	7642	7582	7741	7991	7519
152	7969	7704	7973	7694	7642	7796	8048	7565
153	8027	7758	8029	7753	7695	7852	8103	7617
154	8207	7811	8142	7807	7746	7943	8149	7672
155	8432	7861	8350	7861	7797	8060	8192	7737
156	8639	7920	8569	7906	7848	8176	8243	7787
157	8845	7989	8781	7956	7904	8295	8296	7830
158	9051	8189	8993	8002	7960	8439	8374	7870
159	9252	8399	9185	8157	8051	8609	8548	7921
160	9446	8613	9380	8376	8254	8814	8720	7972
161	9639	8818	9566	8579	8470	9014	8889	8030
162	9828	9030	9762	8772	8683	9215	9054	8075
163	10023	9225	9948	8981	8893	9414	9210	8120
164	10204	9421	10142	9183	9083	9607	9343	8166
165	10388	9608	10326	9381	9275	9796	9471	8227
166	10570	9807	10514	9559	9463	9983	9594	8288
167	10759	9995	10692	9748	9657	10170	9725	8436
168	10944	10189	10880	9930	9844	10357	9858	8600
169	11127	10368	11062	10122	10033	10542	9992	8762
170	11305	10560	11249	10302	10215	10726	10110	8910
171	11491	10737	11428	10487	10402	10909	10226	9055
172	11672	10918	11610	10669	10580	11090	10349	9175
173	11854	11095	11783	10851	10761	11269	10483	9290
174	12029	11287	11971	11024	10945	11451	10612	9393
175	12210	11469	12155	11210	11132	11635	10731	9510
176	12389	11652	12345	11388	11313	11817	10840	9623
177	12576	11826	12521	11575	11494	11998	10956	9734
178	12752	12013	12705	11749	11670	12178	11081	9827
179	12933	12194	12885	11928	11854	12359	11208	9920
180	13109	12382	13077	12107	12038	12543	11319	10015
181	13292	12554	13261	12295	12224	12725	11432	10125
182	13476	12739	13448	12478	12401	12908	11539	10223
183	13660	12913	13627	12661	12581	13088	11654	10321
184	13833	13102	13812	12838	12762	13269	11769	10405
185	14017	13284	13994	13024	12954	13455	11884	10501
186	14191	13472	14181	13206	13138	13638	11989	10600
187	14373	13648	14362	13397	13319	13820	12099	10708
188	14544	13834	14550	13576	13497	14000	12208	10801
189	14720	14016	14732	13760	13681	14182	12323	10898
190	14888	14209	14924	13938	13863	14364	12435	10989
191	15065	14385	15108	14127	14052	14547	12544	11096
192	15235	14570	15298	14314	14230	14729	12648	11198
193	15409	14750	15479	14502	14409	14910	12759	11306
194	15577	14941	15672	14679	14587	15091	12868	11406
195	15755	15123	15854	14868	14772	15274	12984	11513
196	15927	15312	16044	15049	14954	15457	13091	11618
197	16099	15494	16224	15237	15140	15639	13202	11731
198	16270	15687	16412	15416	15317	15820	13311	11836
199	16444	15867	16593	15599	15500	16001	13430	11947
200	16613	16056	16784	15780	15678	16182	13546	12047

	J	K	L	M	N	O	P	Q
151	7687	7744	7650	7718	6889	7060	6914	6909
152	7738	7786	7687	7765	6937	7101	6957	6954
153	7776	7828	7730	7811	6984	7140	7000	6999
154	7818	7867	7774	7856	7036	7182	7042	7042
155	7862	7911	7824	7905	7086	7216	7081	7080
156	7916	7955	7866	7953	7136	7254	7122	7118
157	7964	8004	7906	8000	7178	7287	7155	7154
158	8012	8047	7944	8049	7222	7328	7193	7194
159	8057	8092	7991	8122	7259	7365	7228	7229
160	8109	8136	8036	8195	7298	7407	7267	7267
161	8160	8187	8087	8271	7336	7443	7300	7303
162	8217	8242	8128	8343	7375	7485	7336	7341
163	8268	8382	8169	8430	7410	7520	7371	7377
164	8395	8527	8209	8528	7447	7564	7410	7419
165	8553	8663	8274	8638	7488	7601	7448	7455
166	8707	8784	8418	8758	7529	7646	7489	7495
167	8843	8906	8559	8894	7564	7682	7525	7530
168	8956	9012	8672	9020	7605	7727	7564	7570
169	9056	9108	8782	9140	7640	7768	7602	7607
170	9156	9200	8891	9253	7681	7811	7648	7650
171	9259	9305	9000	9369	7720	7847	7687	7685
172	9369	9409	9096	9480	7761	7890	7728	7726
173	9467	9508	9185	9587	7800	7931	7767	7764
174	9555	9591	9271	9684	7843	8009	7808	7809
175	9637	9675	9367	9784	7878	8125	7847	7846
176	9728	9765	9457	9883	7918	8240	7888	7891
177	9821	9859	9545	9983	7954	8335	7928	7949
178	9914	9944	9619	10077	7993	8431	8021	8075
179	9991	10023	9696	10168	8064	8514	8139	8186
180	10068	10094	9776	10254	8194	8599	8250	8289
181	10145	10174	9859	10347	8309	8670	8340	8373
182	10232	10258	9939	10438	8414	8749	8428	8458
183	10317	10347	10015	10531	8503	8822	8506	8534
184	10398	10431	10089	10618	8593	8899	8583	8613
185	10472	10515	10171	10709	8671	8968	8651	8685
186	10558	10596	10256	10800	8751	9047	8725	8760
187	10648	10687	10347	10898	8822	9117	8794	8830
188	10740	10778	10433	10992	8896	9197	8870	8906
189	10827	10869	10519	11087	8966	9277	8940	8978
190	10913	10954	10601	11178	9044	9361	9023	9055
191	10996	11041	10691	11274	9116	9437	9098	9127
192	11090	11130	10782	11370	9190	9521	9179	9205
193	11182	11225	10873	11469	9260	9596	9254	9278
194	11274	11319	10958	11565	9337	9683	9335	9364
195	11364	11412	11044	11663	9410	9764	9411	9444
196	11454	11496	11130	11758	9492	9853	9499	9545
197	11542	11587	11224	11857	9566	9933	9581	9644
198	11645	11678	11315	11957	9648	10023	9673	9750
199	11744	11774	11408	12061	9724	10114	9762	9860
200	11847	11863	11492	12159	9807	10221	9868	9974

	R	S	T	U	V	W	X	Y
151	6657	6886	7356	6964	6592	6905	6873	6938
152	6700	6930	7393	7019	6642	6950	6923	6985
153	6744	6973	7430	7065	6689	6994	6967	7029
154	6788	7018	7471	7111	6726	7043	7010	7072
155	6832	7059	7508	7151	6773	7093	7056	7116
156	6874	7101	7543	7195	6821	7142	7105	7161
157	6915	7138	7578	7237	6877	7190	7148	7206
158	6953	7178	7617	7283	6923	7232	7188	7249
159	6992	7215	7652	7318	6971	7270	7223	7287
160	7025	7253	7693	7354	7015	7311	7261	7327
161	7063	7289	7727	7385	7067	7352	7301	7366
162	7096	7327	7765	7423	7117	7390	7344	7408
163	7133	7362	7804	7460	7170	7426	7384	7449
164	7165	7401	7847	7499	7212	7464	7418	7488
165	7207	7440	7886	7531	7254	7504	7454	7526
166	7243	7480	7925	7566	7293	7542	7492	7564
167	7283	7517	7965	7600	7339	7578	7532	7603
168	7318	7557	8018	7643	7375	7617	7572	7645
169	7358	7595	8126	7678	7414	7655	7608	7696
170	7392	7636	8264	7716	7448	7695	7648	7754
171	7431	7674	8379	7754	7489	7737	7688	7809
172	7468	7715	8500	7800	7525	7777	7731	7867
173	7506	7754	8614	7843	7567	7818	7769	7922
174	7542	7802	8723	7889	7600	7862	7811	7977
175	7582	7856	8818	7932	7641	7911	7853	8031
176	7622	7912	8920	8027	7677	8018	7900	8108
177	7662	7966	9020	8173	7725	8156	7999	8215
178	7703	8045	9130	8311	7764	8282	8136	8325
179	7747	8130	9238	8430	7806	8401	8259	8427
180	7785	8223	9357	8550	7847	8513	8378	8529
181	7828	8304	9471	8661	7898	8620	8486	8627
182	7867	8383	9595	8769	7948	8721	8591	8725
183	7910	8455	9716	8876	8054	8822	8687	8831
184	7980	8534	9849	8984	8191	8922	8781	8945
185	8103	8616	9976	9090	8322	9023	8876	9057
186	8205	8698	10104	9209	8442	9125	8974	9171
187	8303	8773	10229	9327	8562	9227	9071	9283
188	8385	8851	10362	9450	8670	9329	9167	9396
189	8466	8925	10493	9566	8779	9442	9258	9508
190	8540	9005	10629	9684	8879	9562	9362	9623
191	8618	9079	10750	9803	8986	9685	9473	9739
192	8689	9157	10885	9931	9097	9803	9589	9861
193	8771	9232	11016	10053	9214	9926	9700	9982
194	8841	9312	11155	10183	9324	10046	9816	10105
195	8920	9390	11288	10304	9443	10175	9931	10228
196	8997	9477	11424	10436	9561	10303	10055	10356
197	9087	9562	11554	10568	9689	10434	10182	10485
198	9180	9655	11695	10704	9808	10564	10308	10616
199	9280	9748	11826	10830	9931	10696	10435	10744
200	9379	9850	11968	10963	10050	10828	10564	10875

	Z	AA	AB	AC	AD	AE	AF	AG
151	5220	5162	4919	4813	4589	4941	4593	4402
152	5294	5223	4987	4869	4640	5003	4636	4436
153	5363	5288	5049	4931	4700	5066	4653	4493
154	5434	5350	5108	4990	4766	5130	4671	4555
155	5498	5410	5161	5047	4828	5189	4712	4612
156	5568	5473	5220	5102	4887	5250	4770	4666
157	5634	5534	5277	5159	4941	5309	4829	4693
158	5707	5591	5336	5216	4997	5369	4885	4712
159	5777	5648	5392	5274	5054	5429	4928	4743
160	5847	5706	5451	5334	5114	5490	4948	4799
161	5904	5772	5500	5391	5172	5548	4969	4855
162	5967	5831	5550	5445	5230	5605	5010	4915
163	6024	5883	5603	5501	5279	5658	5069	4964
164	6093	5935	5663	5556	5336	5717	5129	4997
165	6150	5992	5714	5613	5388	5771	5186	5015
166	6214	6051	5766	5669	5449	5830	5224	5051
167	6272	6107	5817	5718	5507	5884	5248	5101
168	6335	6158	5877	5773	5563	5941	5273	5162
169	6398	6211	5931	5826	5615	5996	5314	5220
170	6461	6266	5989	5880	5673	6054	5370	5274
171	6515	6323	6040	5935	5726	6108	5433	5304
172	6573	6375	6095	5989	5782	6163	5491	5334
173	6630	6429	6147	6038	5832	6215	5538	5367
174	6678	6481	6204	6094	5885	6268	5568	5420
175	6713	6535	6252	6148	5937	6317	5599	5478
176	6757	6587	6304	6202	5994	6369	5642	5542
177	6797	6640	6353	6251	6047	6418	5705	5590
178	6842	6683	6407	6304	6097	6467	5772	5629
179	6881	6717	6457	6359	6150	6513	5835	5655
180	6929	6753	6513	6416	6205	6563	5889	5694
181	6968	6789	6563	6471	6255	6609	5931	5746
182	7015	6824	6622	6531	6308	6660	5979	5821
183	7056	6865	6674	6588	6358	6708	6044	5900
184	7101	6902	6723	6643	6412	6756	6123	5978
185	7140	6939	6757	6694	6463	6799	6214	6034
186	7182	6977	6797	6732	6518	6841	6303	6087
187	7215	7016	6836	6771	6572	6882	6377	6142
188	7251	7054	6877	6811	6633	6925	6442	6217
189	7282	7090	6913	6850	6688	6965	6503	6304
190	7317	7124	6955	6889	6743	7006	6552	6397
191	7348	7160	6995	6928	6790	7044	6600	6478
192	7386	7198	7036	6968	6830	7084	6654	6546
193	7418	7235	7073	7006	6871	7121	6708	6595
194	7454	7268	7112	7042	6913	7158	6755	6633
195	7484	7303	7144	7074	6952	7191	6793	6675
196	7522	7340	7180	7109	6988	7228	6828	6729
197	7553	7376	7213	7143	7018	7261	6866	6784
198	7589	7413	7250	7178	7053	7297	6906	6835
199	7620	7451	7284	7215	7086	7331	6946	6873
200	7655	7484	7319	7250	7120	7366	6984	6907

	AH	AI	AJ	AK	AL	AM	AN	AO
151	4172	4266	4198	4326	3806	3668	3633	3576
152	4234	4304	4209	4364	3838	3684	3663	3618
153	4286	4318	4222	4394	3882	3721	3691	3669
154	4305	4332	4263	4425	3918	3759	3735	3710
155	4321	4376	4325	4469	3888	3793	3778	3739
156	4357	4435	4387	4523	3886	3819	3814	3767
157	4418	4498	4446	4577	3900	3851	3845	3808
158	4476	4555	4491	4624	3934	3882	3894	3858
159	4537	4600	4509	4663	3977	3929	3946	3904
160	4586	4619	4529	4696	4023	3981	4002	3943
161	4611	4645	4568	4730	4051	4034	4040	3968
162	4631	4686	4626	4774	4051	4071	4068	3998
163	4670	4743	4685	4826	4074	4098	4097	4038
164	4726	4801	4744	4879	4112	4127	4142	4083
165	4787	4861	4791	4928	4162	4172	4190	4128
166	4843	4900	4819	4967	4216	4222	4242	4170
167	4898	4927	4841	5003	4261	4272	4278	4198
168	4926	4952	4880	5039	4294	4309	4309	4232
169	4948	5000	4936	5084	4318	4338	4342	4277
170	4984	5056	5000	5137	4357	4369	4393	4336
171	5039	5123	5061	5192	4405	4415	4454	4399
172	5096	5184	5112	5243	4458	4468	4520	4456
173	5156	5232	5142	5287	4505	4530	4573	4499
174	5202	5258	5170	5324	4549	4585	4617	4544
175	5232	5288	5209	5361	4590	4631	4659	4597
176	5260	5326	5267	5407	4638	4677	4714	4660
177	5300	5384	5330	5462	4698	4739	4772	4718
178	5353	5446	5394	5519	4763	4800	4832	4771
179	5419	5509	5441	5572	4816	4865	4877	4807
180	5480	5559	5475	5619	4854	4917	4915	4844
181	5537	5601	5507	5664	4885	4960	4953	4891
182	5577	5638	5557	5714	4926	5000	5006	4943
183	5614	5696	5628	5776	4981	5053	5060	4992
184	5664	5775	5717	5851	5041	5111	5118	5035
185	5738	5866	5805	5931	5093	5175	5164	5069
186	5826	5955	5884	6011	5130	5223	5205	5109
187	5921	6033	5943	6083	5165	5267	5247	5161
188	6002	6087	6004	6150	5213	5310	5306	5228
189	6070	6145	6070	6218	5273	5371	5369	5298
190	6128	6214	6158	6290	5336	5437	5445	5356
191	6198	6305	6253	6367	5390	5509	5505	5399
192	6281	6398	6353	6446	5431	5575	5560	5454
193	6384	6493	6435	6523	5477	5633	5621	5520
194	6482	6552	6502	6585	5544	5694	5699	5593
195	6561	6597	6539	6633	5621	5768	5779	5657
196	6602	6633	6581	6675	5701	5849	5865	5721
197	6640	6676	6629	6719	5772	5933	5931	5782
198	6680	6724	6687	6766	5830	5999	5999	5855
199	6729	6780	6738	6813	5890	6063	6069	5932
200	6782	6829	6781	6857	5966	6133	6152	6017

	AP	AQ	AR	AS	AT	AU	AV	AW
151	3551	3647	3522	3407	3294	3414	3327	3393
152	3575	3676	3558	3426	3325	3440	3361	3422
153	3606	3714	3586	3439	3347	3451	3391	3443
154	3635	3751	3631	3469	3375	3469	3412	3471
155	3666	3773	3682	3512	3414	3507	3443	3512
156	3696	3796	3736	3564	3459	3536	3480	3555
157	3730	3827	3781	3602	3499	3569	3523	3595
158	3771	3868	3815	3636	3526	3608	3562	3629
159	3823	3916	3846	3667	3537	3653	3592	3659
160	3870	3964	3889	3711	3568	3695	3616	3696
161	3912	4001	3938	3757	3609	3727	3648	3736
162	3936	4025	3992	3807	3663	3755	3686	3781
163	3966	4055	4035	3847	3711	3786	3730	3822
164	4003	4093	4070	3881	3753	3826	3767	3859
165	4053	4141	4101	3914	3784	3867	3799	3893
166	4096	4189	4143	3959	3823	3906	3826	3931
167	4137	4229	4193	4006	3868	3938	3859	3973
168	4168	4262	4245	4057	3920	3966	3898	4017
169	4212	4297	4286	4096	3966	4002	3941	4058
170	4264	4344	4323	4134	4006	4042	3981	4097
171	4331	4401	4358	4169	4036	4085	4013	4132
172	4390	4458	4406	4213	4076	4129	4045	4174
173	4444	4510	4459	4261	4119	4166	4079	4217
174	4479	4555	4512	4313	4172	4197	4120	4263
175	4517	4599	4556	4353	4223	4236	4169	4307
176	4558	4649	4593	4394	4272	4284	4210	4351
177	4611	4708	4630	4436	4311	4335	4245	4391
178	4656	4764	4679	4490	4364	4386	4277	4439
179	4699	4813	4730	4549	4421	4432	4318	4490
180	4728	4852	4782	4609	4484	4473	4365	4543
181	4765	4891	4823	4658	4540	4522	4415	4592
182	4812	4937	4865	4708	4593	4573	4460	4640
183	4865	4990	4909	4757	4640	4625	4505	4687
184	4917	5044	4965	4816	4695	4677	4550	4741
185	4960	5092	5025	4875	4754	4721	4604	4796
186	4992	5132	5085	4932	4815	4767	4665	4853
187	5035	5175	5137	4976	4870	4815	4726	4905
188	5085	5228	5188	5016	4923	4867	4788	4956
189	5146	5291	5237	5049	4969	4920	4842	5003
190	5202	5355	5292	5099	5024	4968	4893	5055
191	5262	5413	5349	5149	5080	5011	4957	5109
192	5314	5467	5405	5197	5142	5053	5021	5164
193	5377	5526	5453	5239	5194	5098	5085	5214
194	5449	5596	5496	5280	5246	5146	5142	5262
195	5530	5671	5541	5322	5289	5186	5198	5307
196	5609	5749	5596	5374	5344	5219	5252	5357
197	5677	5819	5647	5430	5395	5248	5317	5407
198	5738	5884	5702	5497	5455	5283	5383	5464
199	5807	5952	5748	5553	5503	5326	5454	5517
200	5885	6031	5797	5609	5548	5373	5517	5569

	B	C	D	E	F	G	H	I
201	16792	16238	16963	15967	15863	16365	13668	12157
202	16964	16431	17151	16149	16048	16549	13782	12263
203	17140	16609	17333	16338	16232	16730	13901	12385
204	17312	16803	17523	16521	16415	16915	14023	12497
205	17489	16984	17702	16709	16601	17097	14152	12625
206	17660	17176	17891	16885	16781	17279	14280	12750
207	17836	17356	18076	17074	16969	17462	14411	12886
208	18002	17547	18268	17256	17149	17644	14540	13019
209	18178	17729	18451	17445	17339	17828	14678	13162
210	18345	17918	18641	17627	17521	18010	14814	13288
211	18520	18096	18822	17817	17711	18193	14960	13427
212	18684	18289	19012	18001	17894	18376	15097	13558
213	18857	18475	19194	18193	18085	18561	15244	13703
214	19024	18666	19383	18379	18267	18744	15384	13841
215	19196	18849	19563	18573	18454	18927	15533	13982
216	19360	19043	19754	18756	18634	19109	15672	14113
217	19530	19226	19931	18945	18826	19292	15819	14257
218	19692	19418	20119	19129	19010	19474	15957	14396
219	19865	19594	20297	19319	19198	19655	16100	14545
220	20028	19783	20485	19502	19378	19835	16238	14686
221	20201	19961	20663	19689	19567	20016	16383	14833
222	20363	20146	20851	19868	19748	20195	16521	14971
223	20536	20322	21029	20056	19938	20376	16663	15122
224	20699	20510	21217	20238	20122	20557	16797	15262
225	20871	20687	21395	20426	20310	20738	16935	15416
226	21034	20874	21586	20607	20494	20919	17071	15559
227	21208	21047	21767	20795	20682	21100	17215	15708
228	21373	21231	21954	20976	20864	21280	17352	15850
229	21544	21405	22131	21165	21055	21460	17496	16006
230	21704	21587	22321	21346	21235	21639	17628	16150
231	21876	21756	22496	21536	21428	21818	17773	16306
232	22037	21938	22684	21720	21611	21998	17907	16447
233	22206	22109	22859	21911	21801	22177	18053	16602
234	22368	22287	23043	22093	21988	22356	18187	16748
235	22539	22454	23217	22281	22181	22534	18328	16903
236	22699	22632	23405	22462	22367	22713	18463	17049
237	22870	22797		22655	22559		18605	17204
238	23032	22972		22835	22743		18740	17349
239	23204	23135		23026	22938		18885	17506
240	23363	23313		23209	23125		19024	17651
241				23396	23317		19171	17805
242							19314	17948
243							19460	18101
244							19600	18245
245							19746	18399
246							19884	18544
247							20032	18698
248							20171	18844
249							20316	18998
250							20454	19146

	J	K	L	M	N	O	P	Q
201	11946	11954	11581	12261	9887	10325	9971	10083
202	12056	12046	11672	12364	9971	10442	10087	10202
203	12171	12153	11769	12476	10050	10551	10197	10318
204	12300	12264	11865	12590	10140	10672	10315	10441
205	12424	12380	11966	12709	10224	10785	10432	10560
206	12550	12493	12067	12828	10327	10909	10552	10686
207	12674	12611	12184	12953	10426	11025	10670	10802
208	12805	12731	12301	13079	10536	11154	10798	10928
209	12937	12859	12426	13212	10645	11274	10921	11050
210	13073	12984	12543	13340	10761	11405	11050	11180
211	13203	13110	12666	13473	10877	11528	11170	11306
212	13339	13234	12787	13603	11000	11662	11301	11439
213	13471	13359	12913	13738	11116	11787	11426	11568
214	13609	13487	13036	13871	11238	11922	11557	11700
215	13748	13618	13163	14009	11360	12051	11687	11825
216	13886	13744	13285	14140	11488	12191	11823	11963
217	14023	13872	13414	14277	11613	12318	11951	12088
218	14165	13998	13541	14411	11743	12454	12084	12220
219	14308	14131	13673	14551	11867	12583	12214	12346
220	14461	14270	13800	14691	12000	12721	12350	12475
221	14607	14413	13930	14833	12125	12853	12478	12602
222	14755	14552	14059	14972	12259	12990	12613	12732
223	14900	14694	14198	15115	12384	13116	12744	12852
224	15051	14833	14336	15256	12514	13253	12880	12984
225	15203	14979	14478	15402	12642	13378	13004	13117
226	15356	15126	14616	15546	12769	13516	13139	13253
227	15507	15274	14757	15692	12896	13639	13270	13377
228	15658	15419	14897	15835	13032	13770	13409	13512
229	15809	15565	15042	15984	13158	13893	13538	13638
230	15959	15712	15182	16126	13286	14029	13679	13773
231	16111	15859	15324	16275	13410	14152	13807	13899
232	16262	16003	15466	16417	13538	14287	13947	14034
233	16411	16147	15608	16564	13661	14415	14078	14161
234	16565	16292	15750	16708	13789	14550	14215	14293
235	16713	16438	15892	16855	13910	14679	14345	14419
236	16865	16585	16032	16999	14043	14818	14485	14553
237	17015	16736	16171	17146	14167	14946	14612	14679
238	17166	16880	16311	17289	14293	15084	14747	14810
239	17319	17027	16452	17438	14414	15215	14877	14934
240	17470	17173	16588	17581	14543	15355	15015	15064
241	17618	17323	16730	17729	14666	15483	15144	15191
242	17768	17474	16868	17874	14796	15619	15277	15322
243	17915	17622	17011	18022	14919	15748	15403	15448
244	18066	17768	17151	18166	15053	15883	15536	15583
245	18215	17914	17295	18314	15178	16010	15663	15708
246	18363	18059	17437	18457	15311	16144	15800	15838
247	18511	18204	17583	18606	15440	16269	15923	15964
248	18662	18349	17721	18749	15574	16406	16055	16096
249	18809	18494	17862	18896	15701	16531	16183	16222
250	18959	18638	17996	19039	15835	16664	16317	16352

	R	S	T	U	V	W	X	Y
201	9493	9952	12098	11089	10181	10963	10692	11005
202	9601	10061	12237	11224	10309	11091	10827	11138
203	9717	10167	12366	11355	10444	11223	10955	11269
204	9831	10280	12500	11487	10568	11352	11089	11399
205	9947	10390	12633	11616	10701	11481	11216	11529
206	10062	10507	12767	11745	10829	11608	11348	11659
207	10186	10622	12894	11871	10962	11740	11477	11789
208	10306	10744	13028	12002	11087	11866	11608	11918
209	10434	10865	13156	12132	11223	11998	11734	12049
210	10554	10990	13293	12260	11348	12124	11866	12178
211	10681	11112	13416	12384	11478	12258	11991	12305
212	10805	11241	13547	12515	11608	12388	12122	12436
213	10937	11367	13672	12643	11737	12520	12249	12564
214	11064	11496	13803	12776	11867	12646	12381	12695
215	11198	11624	13929	12900	11999	12779	12505	12822
216	11321	11757	14062	13030	12124	12906	12638	12952
217	11452	11884	14184	13159	12257	13036	12763	13080
218	11579	12016	14314	13291	12387	13162	12895	13210
219	11709	12144	14438	13420	12515	13292	13018	13337
220	11834	12276	14572	13551	12640	13422	13151	13467
221	11965	12405	14697	13678	12770	13553	13278	13595
222	12087	12536	14829	13807	12897	13680	13416	13726
223	12219	12663	14953	13940	13030	13812	13547	13856
224	12343	12795	15086	14072	13158	13939	13687	13988
225	12474	12923	15217	14203	13288	14073	13819	14120
226	12600	13055	15352	14337	13419	14208	13960	14255
227	12736	13184	15483	14472	13555	14345	14095	14390
228	12866	13318	15619	14612	13690	14481	14236	14528
229	13001	13446	15750	14747	13827	14623	14373	14664
230	13128	13579	15891	14888	13960	14761	14515	14803
231	13263	13706	16021	15027	14097	14901	14650	14939
232	13391	13839	16162	15173	14234	15038	14792	15080
233	13523	13968	16296	15312	14373	15178	14929	15218
234	13652	14100	16435	15454	14512	15317	15071	15358
235	13783	14227	16570	15595	14653	15460	15211	15498
236	13906	14361	16714	15743	14791	15600	15358	15641
237	14041	14489	16847	15885	14939	15747	15499	15783
238	14166	14620	16992	16031	15077	15888	15644	15926
239	14297	14747	17127	16176	15221	16034	15785	16069
240	14418	14879	17275	16323	15361	16178	15931	16214
241	14548	15006	17411	16468	15506	16325	16068	16356
242	14674	15138	17559	16614	15649	16471	16216	16502
243	14805	15265	17698	16757	15797	16620	16359	16646
244	14928	15397	17848	16905	15938	16760	16507	16792
245	15060	15524	17992	17051	16084	16909	16647	16937
246	15187	15656	18148	17198	16226	17057	16797	17085
247	15321	15783	18288	17341	16375	17204	16936	17229
248	15445	15915	18437	17491	16522	17348	17085	17377
249	15578	16043	18578	17635	16675	17500	17227	17523
250	15705	16175	18728	17785	16821	17647	17377	17672

	Z	AA	AB	AC	AD	AE	AF	AG
201	7691	7519	7352	7284	7153	7400	7021	6940
202	7730	7556	7388	7318	7191	7437	7053	6982
203	7767	7594	7418	7353	7225	7471	7082	7023
204	7806	7630	7455	7388	7264	7509	7118	7070
205	7838	7665	7489	7423	7299	7543	7158	7112
206	7880	7701	7526	7460	7338	7581	7201	7150
207	7979	7738	7562	7497	7377	7631	7244	7184
208	8104	7783	7601	7537	7417	7688	7282	7222
209	8206	7875	7637	7575	7457	7750	7318	7262
210	8308	7991	7678	7614	7496	7817	7353	7307
211	8396	8102	7713	7652	7534	7879	7398	7352
212	8489	8199	7755	7697	7576	7943	7526	7398
213	8571	8298	7827	7740	7614	8010	7663	7434
214	8659	8395	7970	7817	7657	8100	7783	7470
215	8741	8496	8094	7960	7698	8198	7889	7545
216	8829	8598	8215	8095	7746	8297	7983	7682
217	8916	8702	8328	8217	7854	8403	8079	7808
218	9015	8807	8442	8333	8000	8519	8180	7934
219	9110	8919	8552	8441	8124	8629	8289	8045
220	9217	9025	8665	8550	8245	8740	8404	8151
221	9323	9138	8774	8655	8356	8849	8520	8244
222	9435	9247	8889	8764	8469	8961	8625	8347
223	9546	9363	8994	8869	8575	9069	8724	8455
224	9664	9475	9109	8978	8687	9183	8829	8574
225	9772	9590	9218	9083	8791	9291	8944	8683
226	9895	9704	9335	9194	8904	9406	9069	8794
227	10008	9824	9448	9303	9010	9519	9195	8891
228	10132	9938	9566	9414	9126	9635	9317	8995
229	10247	10055	9681	9521	9236	9748	9430	9101
230	10369	10172	9800	9631	9352	9865	9539	9223
231	10484	10290	9912	9741	9459	9977	9647	9346
232	10607	10407	10030	9858	9576	10096	9758	9471
233	10723	10525	10146	9970	9684	10210	9879	9579
234	10845	10640	10269	10086	9797	10327	10000	9685
235	10962	10763	10383	10197	9907	10442	10117	9785
236	11083	10879	10500	10310	10021	10559	10234	9897
237	11203	10996	10616	10424	10128	10673	10344	10007
238	11331	11111	10737	10541	10238	10792	10456	10126
239	11448	11230	10852	10654	10348	10906	10572	10238
240	11572	11347	10971	10770	10465	11025	10694	10352
241	11690	11466	11087	10885	10576	11141	10812	10449
242	11813	11578	11209	11002	10695	11259	10931	10555
243	11938	11700	11325	11121	10806	11378	11041	10660
244	12066	11814	11446	11242	10929	11499	11154	10773
245	12192	11934	11559	11363	11046	11619	11268	10889
246	12325	12055	11683	11483	11172	11744	11384	11012
247	12454	12177	11799	11603	11294	11865	11502	11127
248	12587	12293	11927	11728	11418	11991	11623	11246
249	12717	12415	12047	11851	11536	12113	11741	11358
250	12850	12534	12171	11979	11663	12239	11859	11481

	AH	AI	AJ	AK	AL	AM	AN	AO
201	6841	6872	6814	6898	6050	6219	6239	6100
202	6884	6903	6847	6934	6142	6308	6328	6171
203	6922	6933	6881	6968	6224	6397	6397	6233
204	6955	6966	6921	7006	6297	6470	6467	6307
205	6994	7012	6962	7048	6367	6540	6540	6387
206	7036	7055	7003	7089	6447	6612	6629	6478
207	7083	7101	7042	7131	6538	6701	6717	6569
208	7130	7140	7081	7171	6630	6787	6808	6649
209	7176	7177	7116	7210	6709	6854	6882	6720
210	7216	7207	7155	7248	6775	6895	6940	6798
211	7256	7249	7195	7290	6820	6936	6982	6863
212	7295	7288	7243	7350	6866	6976	7030	6921
213	7339	7337	7292	7413	6916	7020	7076	6973
214	7383	7382	7335	7471	6967	7062	7120	7017
215	7431	7437	7374	7535	7005	7105	7157	7057
216	7473	7546	7440	7625	7042	7141	7194	7099
217	7562	7655	7565	7734	7076	7179	7230	7139
218	7682	7759	7689	7849	7118	7216	7275	7184
219	7801	7877	7809	7964	7159	7261	7313	7227
220	7920	7995	7929	8080	7203	7302	7356	7265
221	8053	8115	8034	8193	7240	7346	7393	7303
222	8179	8220	8130	8300	7277	7385	7431	7347
223	8299	8318	8212	8402	7314	7424	7469	7391
224	8392	8401	8304	8500	7352	7461	7516	7438
225	8478	8497	8412	8603	7397	7507	7557	7481
226	8563	8606	8534	8713	7444	7554	7603	7521
227	8676	8731	8651	8829	7488	7604	7641	7558
228	8797	8847	8760	8943	7532	7653	7693	7603
229	8925	8958	8854	9054	7573	7773	7812	7691
230	9034	9057	8957	9162	7672	7888	7939	7835
231	9140	9162	9063	9272	7813	8004	8048	7945
232	9234	9272	9185	9384	7928	8113	8156	8046
233	9344	9397	9306	9501	8024	8216	8242	8141
234	9454	9519	9426	9617	8110	8304	8333	8243
235	9576	9643	9534	9731	8197	8393	8430	8343
236	9684	9749	9642	9841	8299	8489	8543	8447
237	9788	9858	9740	9947	8411	8603	8652	8546
238	9878	9960	9853	10055	8523	8713	8761	8649
239	9974	10075	9968	10165	8624	8824	8859	8750
240	10073	10193	10090	10280	8724	8921	8964	8862
241	10188	10318	10203	10394	8829	9025	9063	8978
242	10300	10437	10316	10508	8949	9133	9178	9095
243	10419	10555	10418	10619	9068	9253	9294	9204
244	10524	10660	10524	10727	9183	9369	9402	9310
245	10632	10772	10633	10839	9288	9483	9505	9412
246	10731	10885	10756	10954	9389	9586	9614	9523
247	10846	11012	10876	11073	9497	9696	9727	9639
248	10958	11132	10998	11191	9614	9808	9848	9757
249	11079	11256	11114	11310	9731	9933	9959	9866
250	11191	11371	11232	11427	9851	10049	10072	9976

	AP	AQ	AR	AS	AT	AU	AV	AW
201	5974	6116	5846	5665	5589	5424	5575	5620
202	6057	6201	5904	5733	5636	5475	5633	5676
203	6134	6277	5964	5796	5684	5519	5703	5733
204	6200	6348	6023	5860	5741	5565	5770	5792
205	6275	6422	6073	5915	5794	5619	5843	5849
206	6359	6505	6128	5978	5853	5681	5904	5909
207	6451	6595	6190	6045	5909	5748	5966	5972
208	6537	6682	6269	6126	5981	5815	6029	6044
209	6618	6757	6350	6206	6054	5888	6102	6120
210	6688	6819	6433	6294	6135	5966	6172	6200
211	6771	6874	6507	6369	6210	6050	6243	6276
212	6843	6927	6583	6447	6283	6135	6306	6351
213	6900	6977	6658	6531	6353	6224	6376	6428
214	6948	7023	6739	6620	6435	6303	6448	6509
215	6991	7063	6794	6705	6517	6379	6528	6585
216	7029	7101	6843	6786	6603	6459	6608	6660
217	7070	7139	6883	6837	6664	6541	6688	6723
218	7111	7181	6920	6883	6727	6625	6758	6783
219	7158	7224	6956	6924	6788	6709	6818	6839
220	7201	7265	6997	6970	6864	6784	6864	6896
221	7244	7305	7034	7009	6920	6855	6913	6946
222	7279	7344	7075	7049	6971	6904	6953	6990
223	7322	7384	7108	7084	7013	6954	6996	7031
224	7359	7425	7144	7122	7051	6996	7032	7069
225	7407	7470	7181	7157	7086	7038	7072	7107
226	7452	7515	7220	7198	7125	7076	7109	7146
227	7492	7557	7257	7236	7158	7112	7152	7183
228	7533	7603	7297	7275	7198	7152	7195	7223
229	7577	7685	7334	7310	7234	7193	7240	7262
230	7620	7791	7372	7348	7273	7237	7281	7302
231	7720	7906	7409	7387	7309	7284	7326	7343
232	7843	8017	7453	7432	7351	7322	7368	7385
233	7941	8113	7495	7474	7391	7361	7415	7427
234	8034	8205	7536	7518	7434	7400	7464	7470
235	8136	8300	7582	7559	7474	7445	7507	7513
236	8242	8404	7696	7606	7518	7489	7551	7572
237	8349	8512	7809	7650	7559	7535	7597	7630
238	8448	8619	7919	7751	7606	7580	7644	7700
239	8548	8721	8020	7879	7650	7627	7693	7774
240	8646	8823	8115	7990	7698	7676	7757	7847
241	8756	8930	8197	8090	7773	7731	7882	7935
242	8871	9045	8287	8194	7897	7845	7984	8041
243	8989	9162	8380	8300	8008	7973	8082	8149
244	9097	9272	8487	8408	8122	8079	8168	8253
245	9202	9378	8592	8507	8231	8182	8261	8355
246	9308	9484	8697	8610	8345	8288	8357	8459
247	9423	9596	8801	8711	8445	8396	8466	8564
248	9540	9713	8914	8825	8550	8504	8571	8673
249	9659	9830	9024	8940	8660	8614	8686	8785
250	9766	9943	9139	9059	8789	8720	8800	8901

	B	C	D	E	F	G	H	I
251							20600	19302
252							20738	19451
253							20887	19607
254							21025	19752
255							21171	19908
256							21310	20055
257							21455	20210
258							21596	20359
259							21743	20519
260							21884	20665
261							22034	20824
262							22174	20971
263							22321	21131
264							22464	21276
265							22615	21435
266							22756	21584
267							22904	21741
268							23041	21887
269							23189	22043
270							23324	22188
271								22345
272								22492
273								22647
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	J	K	L	M	N	O	P	Q
251	19110	18784	18136	19186	15962	16788	16445	16475
252	19264	18928	18276	19331	16095	16921	16579	16606
253	19416	19077	18415	19480	16222	17049	16704	16730
254	19566	19221	18554	19624	16355	17185	16837	16862
255	19713	19370	18699	19772	16482	17314	16967	16988
256	19869	19515	18844	19919	16615	17450	17100	17120
257	20022	19665	18990	20068	16738	17577	17226	17245
258	20178	19816	19132	20216	16868	17713	17358	17378
259	20331	19968	19279	20368	16998	17839	17483	17505
260	20482	20121	19422	20515	17131	17974	17617	17636
261	20632	20273	19570	20667	17257	18098	17741	17764
262	20786	20426	19716	20815	17389	18235	17872	17896
263	20940	20577	19863	20966	17517	18363	18000	18021
264	21093	20726	20007	21113	17651	18501	18134	18157
265	21241	20881	20156	21266	17783	18627	18260	18284
266	21390	21032	20302	21413	17920	18764	18397	18419
267	21540	21182	20453	21564	18050	18891	18524	18546
268	21692	21334	20600	21711	18189	19030	18658	18680
269	21842	21485	20747	21861	18322	19157	18786	18809
270	21991	21635	20893	22006	18459	19299	18920	18946
271	22144	21780	21044		18592	19431	19053	19075
272	22296	21928	21192		18732	19573	19191	19210
273	22445	22080	21340		18866	19705	19325	19343
274	22599	22228	21486		19006	19841	19466	19483
275	22749	22380	21634		19139	19972	19599	19619
276	22902	22530	21780		19281	20116	19741	19766
277	23053	22681	21932		19417	20248	19879	19907
278	23205	22833	22084		19557	20397	20024	20057
279	23358	22984	22232		19694	20532	20159	20199
280		23139	22381		19839	20682	20308	20349
281		23289	22532		19974	20818	20447	20494
282		23441	22685		20119	20970	20598	20651
283			22837		20255	21115	20743	20798
284			22991		20400	21268	20898	20959
285			23145		20539	21408	21044	21115
286			23295		20683	21562	21204	21277
287			23448		20822	21706	21355	21435
288					20965	21864	21516	21605
289					21105	22006	21672	21769
290					21252	22165	21839	21944
291					21391	22313	21999	22110
292					21539	22476	22170	22289
293					21679	22626	22335	22459
294					21832	22788	22508	22639
295					21974	22941	22675	22812
296					22126	23102	22851	22989
297					22268	23253	23016	23158
298					22420	23421	23194	23334
299					22566		23357	
300					22717			

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251	15841	16302	18871	17932	16970	17800	17522	17819
252	15966	16433	19025	18085	17111	17945	17673	17968
253	16099	16561	19166	18231	17265	18099	17819	18116
254	16227	16693	19318	18382	17413	18243	17972	18266
255	16359	16822	19456	18530	17565	18395	18123	18414
256	16487	16954	19603	18683	17709	18544	18278	18563
257	16617	17081	19741	18832	17861	18700	18421	18711
258	16741	17212	19890	18985	18008	18849	18573	18861
259	16873	17340	20031	19133	18161	19003	18717	19009
260	16999	17471	20180	19285	18308	19148	18872	19159
261	17127	17597	20318	19438	18460	19300	19018	19307
262	17254	17729	20468	19594	18612	19450	19174	19460
263	17384	17857	20608	19746	18767	19604	19320	19609
264	17510	17991	20757	19899	18915	19752	19478	19760
265	17644	18120	20899	20052	19069	19908	19626	19911
266	17771	18254	21051	20206	19220	20056	19780	20063
267	17908	18384	21192	20357	19375	20212	19925	20212
268	18035	18518	21343	20510	19524	20363	20083	20365
269	18169	18649	21485	20660	19676	20519	20232	20514
270	18298	18784	21635	20817	19828	20667	20385	20666
271	18435	18917	21776	20969	19981	20824	20531	20816
272	18565	19054	21925	21124	20131	20971	20688	20968
273	18700	19188	22068	21278	20289	21131	20835	21120
274	18836	19326	22218	21434	20439	21280	20995	21273
275	18977	19461	22362	21589	20596	21438	21147	21426
276	19115	19604	22512	21744	20747	21592	21309	21581
277	19262	19743	22654	21899	20901	21752	21462	21734
278	19404	19888	22805	22058	21056	21909	21622	21890
279	19555	20028	22944	22213	21210	22072	21775	22043
280	19698	20175	23093	22370	21366	22225	21936	22198
281	19849	20316	23234	22525	21525	22388	22089	22352
282	19997	20467	23384	22683	21680	22542	22252	22508
283	20152	20613		22839	21839	22707	22408	
284	20299	20765		23000	21993	22864	22572	
285	20455	20912		23161	22154	23023	22727	
286	20608	21067		23321	22312	23182	22895	
287	20772	21218			22472	23347	23055	
288	20928	21376			22626		23225	
289	21098	21530			22789		23384	
290	21263	21693			22945			
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292	21600	22015			23268			
293	21778	22175			23429			
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251	12982	12664	12290	12103	11783	12364	11970	11605
252	13120	12788	12419	12234	11909	12494	12083	11734
253	13252	12914	12539	12360	12029	12619	12199	11860
254	13392	13041	12670	12489	12161	12751	12320	11985
255	13527	13173	12796	12619	12286	12880	12439	12106
256	13664	13305	12931	12751	12419	13014		12228
257	13798	13444	13057	12880	12544	13145		12344
258	13937	13577	13194	13010	12678	13279		12470
259	14066	13718	13320	13139	12803	13409		
260	14201	13850	13458	13272	12938	13544		
261	14326	13987	13586	13404	13066	13674		
262	14460	14123	13723	13537	13198	13808		
263	14588	14265	13853	13668	13326	13940		
264	14724	14399	13986	13799	13461	14074		
265	14852	14545	14116	13927	13589	14206		
266	14990	14681	14255	14064	13729	14344		
267	15116	14823	14382	14189	13855	14473		
268	15248	14956	14522	14318	13989	14607		
269	15375	15093	14654	14445	14115	14736		
270	15506	15226	14787	14577	14251	14869		
271	15634	15365	14913	14706	14376	14999		
272	15767	15492	15046	14843	14511	15132		
273	15892	15632	15173	14970	14636	15261		
274	16026	15764	15309	15102	14776	15395		
275	16151	15901	15438	15232	14900	15524		
276	16284	16033	15571	15369	15035	15658		
277	16413	16165	15701	15500	15161	15788		
278	16551	16297	15839	15633	15301	15924		
279	16682	16435	15971	15767	15435	16058		
280	16820	16566	16105	15898	15580	16194		
281	16952	16707	16235	16025	15716	16327		
282	17086	16840	16381	16162	15860	16466		
283	17217	16979	16517	16290	15996	16600		
284	17351	17114	16654	16428	16137	16737		
285	17480	17257	16793	16567	16271	16874		
286	17614	17394	16936	16705	16417	17013		
287	17748	17541	17068	16845	16557	17152		
288	17885	17674	17210	16995	16704	17294		
289	18018	17819	17351	17133	16840	17432		
290	18154	17958	17497	17276	16990	17575		
291	18286	18100	17637	17411	17136	17714		
292	18418	18237	17781	17556	17291	17857		
293	18547	18391	17917	17698	17434	17997		
294	18685	18532	18063	17848	17590	18144		
295	18818	18676	18207	17990	17742	18287		
296	18956	18814	18359	18147	17896	18434		
297	19088	18957	18506	18298	18045	18579		
298	19230	19097	18650	18457	18205	18728		
299	19366	19242	18786	18607	18357	18872		
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	AH	AI	AJ	AK	AL	AM	AN	AO
251	11306	11488	11348	11543	9957	10160	10177	10088
252	11410	11607	11472	11661	10064	10261	10291	10212
253	11525	11733	11593	11782	10178	10375	10409	10344
254	11640	11860	11724	11906	10298	10493	10535	10476
255	11767	11995	11848	12031	10421	10617	10659	10598
256	11890	12125	11978	12055	10536	10730	10787	10721
257	12017	12255	12099	12179	10641	10847	10902	10845
258	12136	12377	12228	12303	10752	10953	11021	10984
259	12260		12356	12308	10865	11072	11142	11119
260	12380				10982	11193	11270	11258
261					11102	11326	11398	11386
262					11217	11450	11532	11515
263					11327	11576	11657	11640
264					11440	11695	11787	11782
265					11553	11821	11921	11924
266					11672	11947	12061	12068
267					11792	12082	12197	12198
268					11910	12208	12338	12327
269					12024	12333	12473	12447
270					12140	12450		
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	AP	AQ	AR	AS	AT	AU	AV	AW
251	9874	10051	9248	9176	8916	8832	8921	9019
252	9978	10161	9362	9292	9048	8947	9034	9137
253	10099	10281	9467	9403	9174	9072	9150	9253
254	10219	10404	9581	9523	9301	9194	9258	9371
255	10345	10528	9690	9642	9430	9317	9377	9491
256	10454	10646	9811	9766	9563	9432	9491	9613
257	10569	10761	9922	9880	9690	9550	9616	9732
258	10684	10879	10040	9995	9823	9674	9738	9854
259	10811	11002	10149	10107	9948	9810	9868	9976
260	10934	11127	10267	10229	10080	9938	9979	10099
261	11060	11254	10382	10348	10207	10055	10098	10218
262	11179	11379	10503	10468	10346	10166	10225	10342
263	11300	11500	10615	10583	10476	10293	10364	10466
264	11421	11625	10732	10701	10613	10424	10484	10591
265	11550	11754	10843	10817	10742	10555	10613	10714
266	11680	11886	10965	10940	10877	10687	10733	10840
267	11809	12016	11084	11063	11011	10820	10874	10970
268	11933	12143	11209	11189	11156	10951	11009	11103
269	12057	12267	11323	11307	11293	11087	11154	11233
270	12184	12258	11446	11433	11432	11221	11288	11364
271	12319	12289	11558	11555	11562	11359	11428	11492
272	12453	12419	11685	11682	11699	11490	11560	11623
273			11803	11805	11832	11625	11702	11753
274			11934	11933	11971	11752	11838	11886
275			12053	12053	12104	11882	11984	12015
276			12178	12176	12240	12007	12121	12144
277			12296	12293	12370	12140	12262	12272
278			12424	12420		12271	12396	12378
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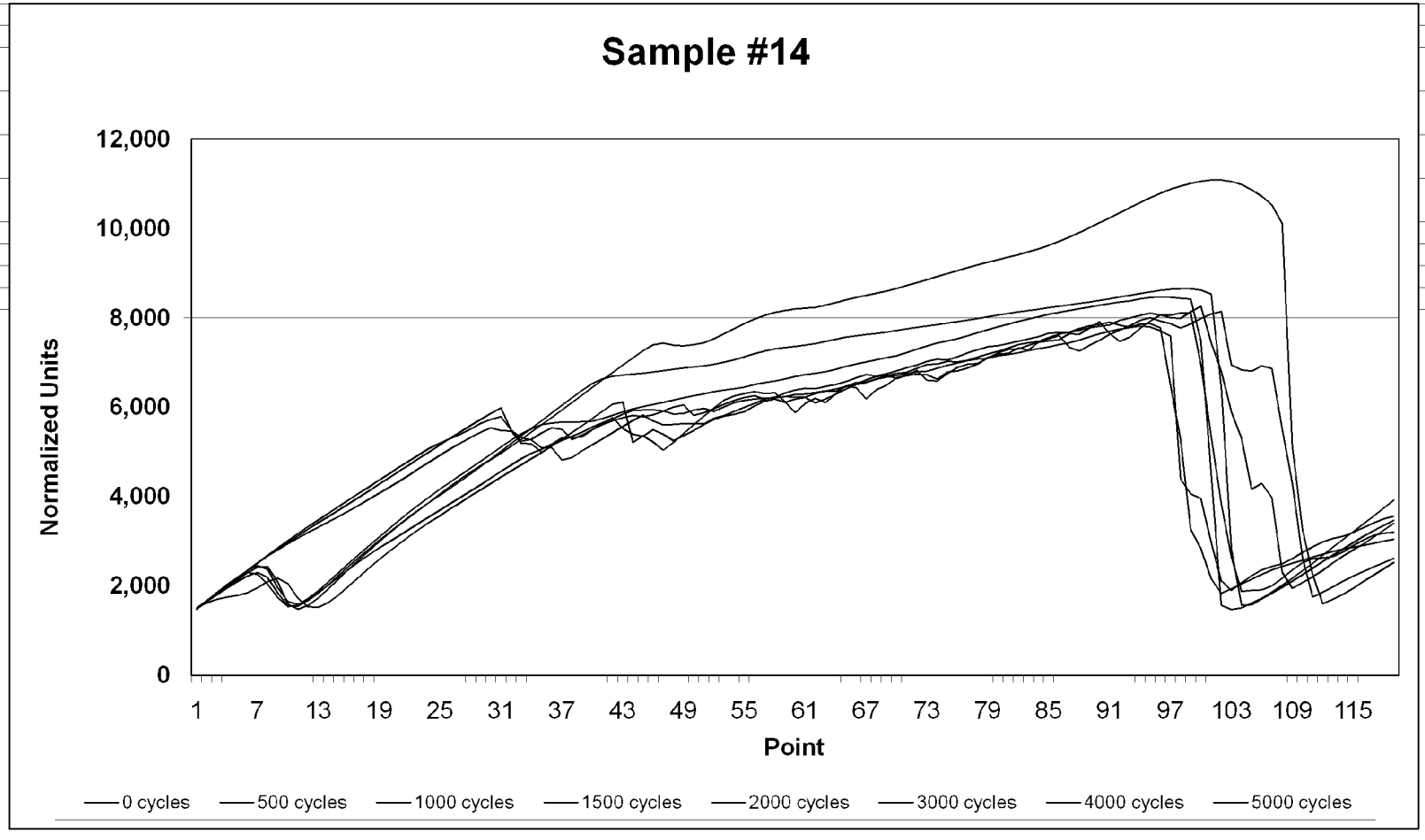
302	19789	19691	19239	19080	18824	19325		
303	19922	19853	19390	19232	18981	19476		
304	20073	20007	19549	19394	19148	19634		
305	20223	20169	19704	19550	19307	19791		
306	20378	20323	19869	19712	19475	19951		
307	20528	20481	20024	19872	19637	20108		
308	20682	20634	20192	20038	19813	20272		
309	20832	20796	20352	20196	19977	20431		
310	20988	20949	20519	20367	20151	20595		
311	21141	21118	20681	20531	20314	20757		
312	21297	21275	20851	20705	20489	20923		
313	21446	21444	21015	20871	20654	21086		
314	21599	21603	21189	21046	20829	21253		
315	21746	21774	21356	21211	20993	21416		
316	21906	21930	21533	21387	21166	21584		
317	22062	22101	21700	21554	21327	21749		
318	22226	22262	21878	21730	21504	21920		
319	22383	22432	22049	21896	21668	22086		
320	22545	22591	22227	22070	21845	22256		
321	22702	22759	22396	22230	22008	22419		
322	22863	22918	22575	22401	22185	22588		
323	23016	23090	22743	22561	22348	22752		
324	23178	23249	22918	22729	22526	22920		
325	23333	23421	23084	22883	22685	23081		
326			23253	23047	22855			
327			23414	23201	23014			
328				23367	23183			
329					23340			

	A
1	File:
2	Make:
3	Model:
4	Step Size [inch]:
5	Deflection [inch/lb]:



	B	C	D	E	F	G
1	770-14-0	8471				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1478	1509	1485	1462	1408	1468
8	1673	1695	1681	1661	1605	1663
9	1843	1880	1867	1851	1794	1847
10	2013	2052	2048	2043	1984	2028
11	2151	2204	2216	2223	2158	2190
12	2170	2278	2351	2392	2318	2302
13	1830	2164	2359	2504	2426	2257
14	1478	1724	2082	2463	2422	2034
15	1436	1426	1636	2049	2125	1734
16	1544	1421	1473	1595	1636	1534
17	1701	1521	1530	1587	1522	1572
18	1869	1671	1673	1729	1619	1712
19	2053	1858	1853	1915	1783	1892
20	2240	2060	2059	2128	1977	2093
21	2427	2274	2266	2344	2184	2299
22	2610	2474	2471	2565	2396	2503
23	2796	2674	2664	2775	2598	2701
24	2973	2867	2859	2984	2801	2897
25	3153	3062	3052	3188	2996	3090
26	3328	3249	3252	3400	3194	3285
27	3511	3438	3441	3593	3385	3474
28	3691	3618	3629	3776	3575	3658
29	3869	3795	3805	3940	3751	3832
30	4044	3969	3969	4102	3920	4001
31	4214	4139	4120	4261	4081	4163
32	4381	4298	4277	4415	4242	4323
33	4546	4455	4429	4562	4395	4477
34	4703	4608	4589	4712	4555	4633
35	4867	4769	4741	4855	4707	4788
36	5031	4932	4900	5005	4858	4945
37	5202	5103	5052	5153	5008	5104
38	5362	5274	5207	5290	5160	5259
39	5528	5443	5352	5370	5297	5398
40	5685	5609	5485	5399	5393	5514
41	5836	5771	5568	5423	5446	5609
42	5930	5898	5615	5353	5424	5644
43	5975	5973	5630	5359	5389	5665
44	6000	5984	5596	5455	5307	5668
45	5960	5987	5504	5534	5366	5670
46	5892	5942	5553	5599	5449	5687
47	5958	5985	5583	5698	5490	5743
48	6008	6075	5620	5799	5568	5814
49	6063	6149	5701	5883	5659	5891
50	6126	6195	5797	5945	5739	5960

	H	I	J	K	L	M
1	770-14-500	8652				
2						
3						
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1440	1510	1512	1488	1442	1478
8	1613	1699	1703	1677	1624	1663
9	1790	1878	1879	1862	1814	1845
10	1958	2057	2053	2040	1993	2020
11	2120	2224	2212	2207	2176	2188
12	2263	2381	2358	2364	2340	2341
13	2349	2488	2440	2466	2496	2448
14	2177	2373	2271	2405	2601	2365
15	1600	1843	1770	2027	2549	1958
16	1444	1516	1533	1634	2112	1648
17	1597	1512	1544	1577	1660	1578
18	1785	1626	1655	1661	1619	1669
19	1994	1796	1819	1817	1747	1835
20	2194	1999	2021	2012	1921	2029
21	2396	2211	2226	2219	2119	2234
22	2585	2417	2434	2431	2322	2438
23	2779	2614	2623	2627	2534	2635
24	2967	2805	2812	2817	2731	2826
25	3160	2991	2998	3001	2922	3014
26	3344	3178	3187	3187	3107	3201
27	3527	3355	3365	3365	3292	3381
28	3699	3527	3539	3536	3474	3555
29	3872	3684	3698	3691	3656	3720
30	4034	3836	3856	3840	3825	3878
31	4192	3982	4007	3987	3988	4031
32	4342	4133	4161	4142	4146	4185
33	4506	4287	4316	4296	4314	4344
34	4668	4448	4479	4461	4474	4506
35	4838	4608	4642	4627	4639	4671
36	5006	4781	4817	4796	4805	4841
37	5175	4949	4987	4965	4981	5011
38	5340	5122	5163	5137	5152	5183
39	5512	5292	5331	5310	5327	5354
40	5678	5467	5503	5480	5497	5525
41	5852	5638	5669	5650	5671	5696
42	6024	5819	5842	5823	5842	5870
43	6195	5990	6008	5994	6015	6040
44	6361	6161	6176	6164	6187	6210
45	6525	6326	6339	6328	6365	6377
46	6657	6469	6483	6470	6536	6523
47	6723	6572	6582	6571	6703	6630
48	6696	6642	6645	6629	6855	6693
49	6619	6669	6662	6649	6973	6714
50	6593	6696	6686	6682	7029	6737

	N	O	P	Q	R	S
1	770-14-1000	11087				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1480	1523	1510	1456	1512	1496
8	1620	1655	1665	1611	1673	1645
9	1756	1791	1821	1770	1841	1796
10	1905	1935	1984	1937	2011	1954
11	2070	2090	2161	2116	2195	2126
12	2236	2222	2327	2295	2363	2289
13	2366	2314	2455	2435	2492	2412
14	2410	2298	2452	2489	2485	2427
15	2074	2001	2072	2228	2058	2087
16	1544	1574	1571	1660	1574	1585
17	1449	1418	1481	1492	1519	1472
18	1548	1455	1579	1580	1636	1560
19	1716	1577	1763	1750	1828	1727
20	1933	1758	1979	1965	2047	1936
21	2150	1960	2203	2184	2270	2153
22	2375	2157	2422	2406	2487	2369
23	2591	2353	2635	2616	2699	2579
24	2802	2543	2846	2824	2905	2784
25	3008	2729	3055	3026	3113	2986
26	3216	2920	3249	3229	3299	3183
27	3419	3108	3421	3406	3471	3365
28	3608	3273	3589	3576	3643	3538
29	3770	3434	3771	3747	3823	3709
30	3938	3599	3950	3920	3990	3879
31	4106	3826	4126	4083	4157	4060
32	4276	3995	4293	4246	4322	4226
33	4432	4195	4457	4401	4479	4393
34	4587	4363	4607	4557	4619	4547
35	4728	4523	4745	4692	4760	4690
36	4857	4671	4884	4830	4900	4828
37	4990	4812	5028	4974	5049	4971
38	5143	4951	5179	5125	5206	5121
39	5297	5099	5351	5286	5369	5280
40	5457	5241	5519	5455	5537	5442
41	5616	5387	5690	5621	5705	5604
42	5788	5533	5855	5799	5870	5769
43	5958	5683	6024	5968	6043	5935
44	6129	5833	6197	6141	6211	6102
45	6299	5988	6370	6307	6384	6270
46	6473	6145	6538	6481	6556	6439
47	6647	6303	6710	6649	6730	6608
48	6822	6455	6878	6820	6899	6775
49	6988	6610	7043	6985	7073	6940
50	7159	6760	7203	7155	7239	7103

	T	U	V	W	X	Y
1	770-14-1500	8259				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1514	1489	1489	1499	1525	1503
8	1666	1604	1555	1575	1668	1614
9	1796	1669	1606	1617	1785	1695
10	1883	1687	1690	1662	1809	1746
11	1864	1711	1799	1751	1779	1781
12	1801	1797	1938	1889	1791	1843
13	1839	1931	2072	2041	1900	1957
14	1963	2083	2181	2191	2041	2092
15	2047	2192	2149	2289	2172	2170
16	1869	2132	1798	2186	2234	2044
17	1484	1755	1506	1747	2099	1718
18	1459	1475	1471	1506	1714	1525
19	1590	1462	1532	1509	1527	1524
20	1776	1553	1676	1611	1537	1631
21	1968	1722	1864	1778	1655	1797
22	2162	1933	2069	1976	1839	1996
23	2347	2144	2268	2177	2046	2196
24	2538	2352	2465	2383	2251	2398
25	2715	2545	2652	2585	2451	2590
26	2887	2720	2839	2774	2640	2772
27	3056	2883	3010	2952	2828	2946
28	3231	3049	3177	3125	2999	3116
29	3396	3206	3327	3290	3166	3277
30	3561	3355	3471	3438	3319	3429
31	3721	3495	3608	3583	3460	3573
32	3883	3634	3755	3735	3591	3720
33	4041	3770	3897	3883	3729	3864
34	4205	3903	4047	4034	3858	4009
35	4358	4035	4193	4182	3989	4151
36	4503	4168	4344	4331	4116	4292
37	4641	4302	4487	4479	4251	4432
38	4787	4431	4629	4625	4376	4570
39	4928	4556	4770	4771	4503	4706
40	5088	4682	4918	4915	4622	4845
41	5248	4805	5062	5059	4752	4985
42	5420	4929	5214	5211	4883	5131
43	5589	5061	5366	5370	5014	5280
44	5761	5194	5528	5534	5138	5431
45	5934	5327	5686	5698	5285	5586
46	6108	5465	5851	5870	5427	5744
47	6275	5608	6008	6040	5585	5903
48	6450	5751	6172	6203	5745	6064
49	6586	5889	5920	6276	5900	6114
50	4868	6026	4560	4562	6043	5212

	Z	AA	AB	AC	AD	AE
1	770-14-2000	8137				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1482	1525	1425	1521	1502	1491
8	1655	1667	1562	1674	1652	1642
9	1813	1816	1708	1825	1801	1793
10	1957	1966	1856	1981	1954	1943
11	2104	2105	2009	2134	2108	2092
12	2242	2203	2144	2259	2251	2220
13	2328	2193	2264	2335	2369	2298
14	2198	1741	2329	2187	2449	2181
15	1623	1456	2167	1583	2374	1841
16	1427	1608	1499	1400	1785	1544
17	1571	1775	1401	1523	1417	1537
18	1752	1941	1530	1670	1543	1687
19	1936	2116	1688	1827	1698	1853
20	2131	2285	1851	1992	1842	2020
21	2327	2447	2032	2172	1989	2193
22	2519	2601	2217	2348	2149	2367
23	2692	2759	2401	2514	2318	2537
24	2854	2908	2568	2665	2483	2696
25	2998	3056	2730	2814	2630	2846
26	3138	3197	2886	2960	2763	2989
27	3278	3340	3046	3108	2885	3131
28	3424	3480	3201	3256	3003	3273
29	3568	3619	3353	3407	3126	3415
30	3712	3753	3503	3555	3256	3556
31	3857	3892	3651	3701	3385	3697
32	4004	4037	3791	3842	3519	3839
33	4144	4186	3932	3993	3649	3981
34	4294	4331	4072	4138	3774	4122
35	4439	4479	4218	4288	3890	4263
36	4587	4624	4368	4441	4029	4410
37	4725	4774	4526	4590	4173	4558
38	4858	4924	4676	4740	4318	4703
39	4957	5087	4825	4891	4459	4844
40	4977	5239	4972	5042	4598	4966
41	4808	5396	5132	5203	4741	5056
42	4777	5546	5292	5367	4887	5174
43	4807	5686	5460	5539	5038	5306
44	4844	5241	5623	5710	5197	5323
45	4893	4753	5789	5880	5356	5334
46	4958	4959	5950	6049	5516	5486
47	5041	5117	6114	6223	5679	5635
48	5116	5247	6215	6394	5846	5764
49	5174	5359	4520	6563	6013	5526
50	5241	5471	4643	5423	6180	5392

	AF	AG	AH	AI	AJ	AK
1	770-14-3000	7815				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1500	1461	1525	1478	1465	1486
8	1661	1635	1689	1641	1629	1651
9	1822	1807	1860	1808	1791	1818
10	1994	1983	2029	1975	1959	1988
11	2154	2158	2202	2143	2126	2157
12	2318	2340	2374	2319	2301	2330
13	2468	2528	2550	2501	2472	2504
14	2604	2700	2701	2680	2637	2664
15	2724	2850	2844	2847	2782	2809
16	2842	2997	2976	2985	2914	2943
17	2941	3136	3109	3120	3043	3070
18	3019	3274	3243	3258	3178	3194
19	3068	3413	3381	3397	3307	3313
20	3114	3556	3514	3536	3438	3432
21	3157	3698	3656	3672	3569	3550
22	3221	3842	3796	3812	3705	3675
23	3296	3984	3939	3955	3841	3803
24	3395	4126	4078	4099	3982	3936
25	3506	4264	4221	4242	4116	4070
26	3633	4400	4360	4384	4255	4206
27	3767	4542	4505	4531	4388	4347
28	3910	4684	4642	4679	4531	4489
29	4050	4828	4793	4832	4669	4634
30	4199	4974	4935	4981	4812	4780
31	4342	5112	5079	5126	4947	4921
32	4496	5246	5214	5272	5089	5063
33	4643	5340	5352	5413	5223	5194
34	4789	5411	5479	5556	5365	5320
35	4911	5485	5599	5694	5507	5439
36	4991	5517	5683	5826	5654	5534
37	5046	4893	5774	5883	5794	5478
38	5121	4953	5447	5845	5942	5462
39	5155	5110	4539	5090	6056	5190
40	5162	5200	4787	4933	5819	5180
41	5099	5245	4995	5152	4434	4985
42	5148	5345	5159	5320	4734	5141
43	5125	5431	5300	5459	4951	5253
44	5083	5475	5428	5592	5142	5344
45	5076	5565	5574	5699	5290	5441
46	5151	5673	5695	5789	5445	5551
47	5205	5762	5788	5862	5616	5647
48	5267	5841	5875	5928	5782	5739
49	5356	5922	5979	6020	5916	5839
50	5455	5923	6078	6122	6057	5927

	AL	AM	AN	AO	AP	AQ
1	770-14-4000	8108				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1416	1571	1486	1512	1520	1501
8	1589	1743	1651	1669	1676	1666
9	1764	1921	1819	1824	1838	1833
10	1933	2097	1990	1982	2009	2002
11	2107	2279	2165	2145	2182	2176
12	2285	2448	2341	2309	2351	2347
13	2467	2608	2512	2470	2514	2514
14	2639	2751	2677	2622	2661	2670
15	2793	2899	2831	2766	2802	2818
16	2935	3049	2983	2914	2949	2966
17	3086	3203	3138	3065	3100	3118
18	3233	3348	3295	3212	3246	3267
19	3389	3495	3442	3348	3385	3412
20	3542	3633	3586	3482	3524	3553
21	3697	3781	3729	3615	3659	3696
22	3833	3922	3872	3754	3799	3836
23	3972	4071	4019	3894	3940	3979
24	4117	4218	4171	4037	4084	4125
25	4267	4367	4320	4180	4230	4273
26	4417	4518	4468	4324	4377	4421
27	4567	4669	4617	4468	4520	4568
28	4709	4813	4766	4614	4666	4714
29	4854	4966	4911	4759	4812	4860
30	4997	5111	5060	4904	4961	5007
31	5146	5263	5206	5051	5107	5155
32	5297	5402	5352	5196	5255	5300
33	5445	5543	5500	5345	5399	5446
34	5588	5668	5645	5494	5544	5588
35	5729	5767	5789	5641	5689	5723
36	5856	5852	5938	5794	5841	5856
37	5935	5945	6084	5943	5987	5979
38	4709	4303	6209	6091	6132	5489
39	4543	4377	5152	6239	6271	5316
40	4769	4623	4182	6386	6385	5269
41	4902	4807	4446	6530	4742	5085
42	4975	4920	4666	6653	4261	5095
43	5080	5051	4841	4586	4516	4815
44	5178	5174	4973	4289	4732	4869
45	5251	5319	5086	4563	4886	5021
46	5232	5458	5260	4794	5021	5153
47	5292	5595	5440	4942	5149	5284
48	5409	5704	5613	5084	5324	5427
49	5514	5821	5768	5220	5506	5566
50	5610	5929	5892	5402	5676	5702

	AR	AS	AT	AU	AV	AW
1	770-14-5000	7900				
2						
3						
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1563	1423	1424	1531	1432	1475
8	1733	1594	1604	1709	1579	1644
9	1905	1775	1782	1889	1732	1817
10	2074	1954	1960	2066	1886	1988
11	2244	2138	2132	2254	2056	2165
12	2408	2317	2307	2436	2225	2339
13	2573	2497	2486	2619	2397	2514
14	2730	2667	2661	2795	2565	2684
15	2878	2835	2820	2969	2740	2848
16	3026	2994	2984	3128	2909	3008
17	3178	3163	3146	3285	3077	3170
18	3323	3326	3311	3431	3238	3326
19	3466	3487	3464	3576	3393	3477
20	3601	3638	3614	3723	3537	3623
21	3744	3789	3761	3873	3686	3771
22	3887	3938	3913	4021	3837	3919
23	4032	4087	4060	4172	3994	4069
24	4171	4232	4209	4322	4145	4216
25	4317	4382	4356	4474	4300	4366
26	4457	4525	4508	4617	4449	4511
27	4599	4670	4655	4768	4603	4659
28	4736	4810	4808	4909	4755	4804
29	4871	4955	4955	5053	4912	4949
30	4992	5092	5105	5188	5069	5089
31	4952	5227	5254	5324	5225	5196
32	4998	5283	5405	5421	5375	5296
33	5131	5364	5554	5385	5532	5393
34	5251	5488	5706	5409	5681	5507
35	5345	5589	5853	5564	5837	5638
36	5265	5673	6003	5693	5986	5724
37	5173	5732	6141	5761	6136	5789
38	5260	4983	6258	4673	6272	5489
39	4898	4987	6366	4637	5299	5237
40	4987	5164	6494	4851	4902	5280
41	5050	5287	6619	5016	5129	5420
42	5132	5362	6734	5129	5319	5535
43	5214	5455	6116	5245	5474	5501
44	5252	5506	4648	5359	5609	5275
45	5308	5487	4861	5471	5736	5373
46	5390	5581	5088	5559	5841	5492
47	5462	5698	5276	5637	5950	5605
48	5526	5799	5446	5693	6025	5698
49	5591	5900	5607	5657	6060	5763
50	5498	5960	5800	5656	6153	5813

	B	C	D	E	F	G
51	6200	6238	5841	6002	5784	6013
52	6238	6272	5883	6069	5836	6060
53	6277	6319	5955	6108	5877	6107
54	6344	6381	6020	6095	5943	6157
55	6421	6451	6054	6134	5990	6210
56	6466	6530	6065	6208	6004	6255
57	6475	6565	6120	6281	6054	6299
58	6499	6577	6182	6349	6112	6344
59	6511	6621	6218	6388	6155	6379
60	6519	6664	6259	6407	6201	6410
61	6553	6711	6307	6436	6238	6449
62	6607	6770	6366	6473	6299	6503
63	6679	6812	6403	6512	6328	6547
64	6746	6831	6436	6554	6338	6581
65	6825	6811	6502	6611	6400	6630
66	6906	6815	6558	6669	6469	6683
67	6965	6878	6578	6693	6511	6725
68	7000	6920	6602	6709	6555	6757
69	7054	6964	6609	6747	6596	6794
70	7084	7019	6662	6826	6641	6846
71	7144	7069	6732	6911	6704	6912
72	7200	7093	6780	6976	6783	6966
73	7278	7110	6823	7004	6833	7010
74	7339	7137	6882	7064	6885	7061
75	7389	7173	6925	7104	6934	7105
76	7424	7207	6991	7145	6990	7151
77	7462	7293	7079	7200	7067	7220
78	7510	7392	7152	7270	7164	7298
79	7585	7502	7195	7322	7239	7369
80	7650	7580	7243	7380	7315	7434
81	7712	7642	7259	7446	7353	7482
82	7757	7710	7306	7514	7372	7532
83	7810	7802	7362	7580	7434	7598
84	7875	7879	7412	7663	7499	7666
85	7919	7950	7481	7741	7561	7730
86	7976	8011	7555	7796	7654	7798
87	8040	8065	7629	7839	7705	7856
88	8083	8130	7704	7903	7751	7914
89	8115	8200	7770	7958	7814	7971
90	8136	8253	7846	8008	7889	8026
91	8160	8311	7900	8050	7966	8077
92	8126	8387	7945	8099	8032	8118
93	8136	8438	8000	8174	8066	8163
94	8135	8458	8071	8237	8110	8202
95	8158	8482	8108	8281	8168	8239
96	8173	8539	8138	8320	8236	8281
97	8211	8590	8131	8360	8298	8318
98	8235	8610	8198	8396	8322	8352
99	8278	8646	8275	8360	8325	8377
100	8342	8692	8337	8376	8373	8424

	H	I	J	K	L	M
51	6625	6719	6703	6735	7016	6760
52	6672	6747	6727	6788	6993	6785
53	6726	6747	6752	6839	7028	6818
54	6750	6744	6785	6890	7070	6848
55	6754	6743	6813	6940	7127	6875
56	6758	6749	6825	6986	7176	6899
57	6785	6757	6825	7012	7235	6923
58	6835	6801	6851	7034	7276	6959
59	6895	6857	6893	7081	7302	7006
60	6952	6931	6956	7145	7335	7064
61	7028	7000	7017	7212	7389	7129
62	7104	7074	7087	7272	7443	7196
63	7173	7131	7143	7331	7511	7258
64	7213	7173	7192	7371	7572	7304
65	7240	7193	7230	7378	7628	7334
66	7259	7234	7278	7362	7666	7360
67	7293	7285	7319	7369	7683	7390
68	7332	7344	7361	7395	7691	7425
69	7376	7405	7404	7433	7727	7469
70	7417	7486	7466	7485	7754	7522
71	7448	7553	7501	7542	7790	7567
72	7456	7609	7517	7584	7823	7598
73	7478	7643	7527	7622	7859	7626
74	7512	7670	7550	7657	7871	7652
75	7571	7681	7579	7689	7886	7681
76	7623	7709	7623	7725	7905	7717
77	7661	7731	7673	7757	7935	7751
78	7683	7754	7732	7790	7973	7786
79	7712	7760	7771	7815	8028	7817
80	7742	7767	7805	7845	8083	7848
81	7777	7779	7831	7877	8141	7881
82	7801	7811	7869	7905	8187	7915
83	7831	7841	7907	7934	8234	7949
84	7859	7874	7960	7965	8269	7985
85	7902	7905	8009	7998	8310	8025
86	7935	7941	8063	8035	8346	8064
87	7963	7972	8106	8075	8376	8098
88	7985	8011	8142	8118	8396	8130
89	8012	8045	8173	8156	8418	8161
90	8037	8090	8217	8190	8436	8194
91	8073	8131	8245	8227	8456	8226
92	8108	8180	8269	8263	8469	8258
93	8152	8225	8280	8301	8490	8290
94	8187	8280	8302	8329	8509	8321
95	8227	8325	8324	8355	8535	8353
96	8262	8376	8360	8387	8557	8388
97	8302	8421	8397	8424	8587	8426
98	8332	8472	8450	8458	8617	8466
99	8364	8512	8504	8492	8652	8505
100	8393	8557	8560	8532	8686	8546

	N	O	P	Q	R	S
51	7325	6911	7355	7316	7406	7263
52	7493	7042	7433	7463	7534	7393
53	7648	7130	7313	7527	7568	7437
54	7785	7163	7108	7420	7450	7385
55	7841	7166	7176	7287	7372	7368
56	7779	7208	7264	7319	7423	7399
57	7645	7272	7367	7393	7515	7438
58	7693	7357	7482	7492	7617	7528
59	7797	7462	7609	7610	7726	7641
60	7923	7563	7722	7746	7835	7758
61	8048	7659	7837	7870	7940	7871
62	8171	7750	7915	7983	8034	7971
63	8263	7837	7986	8063	8116	8053
64	8342	7922	8037	8133	8159	8119
65	8403	8004	8047	8178	8185	8163
66	8466	8064	8060	8208	8186	8197
67	8494	8092	8122	8217	8167	8218
68	8484	8095	8186	8241	8171	8235
69	8503	8144	8257	8268	8229	8280
70	8575	8201	8325	8330	8283	8343
71	8651	8250	8389	8392	8332	8403
72	8738	8292	8444	8445	8353	8454
73	8816	8348	8493	8463	8382	8500
74	8886	8401	8531	8492	8427	8547
75	8939	8460	8577	8537	8484	8599
76	8990	8524	8626	8599	8539	8656
77	9061	8598	8683	8650	8608	8720
78	9146	8667	8747	8711	8678	8790
79	9212	8730	8818	8766	8751	8855
80	9278	8802	8876	8838	8814	8922
81	9335	8874	8926	8915	8895	8989
82	9401	8928	8964	8996	8980	9054
83	9472	8992	9010	9064	9072	9122
84	9543	9071	9057	9116	9151	9188
85	9612	9144	9094	9149	9225	9245
86	9690	9217	9116	9190	9292	9301
87	9771	9298	9138	9216	9369	9358
88	9867	9375	9170	9225	9440	9415
89	9953	9429	9242	9233	9528	9477
90	10037	9459	9327	9285	9619	9545
91	10118	9500	9410	9345	9729	9620
92	10226	9562	9480	9432	9843	9709
93	10335	9637	9558	9528	9964	9804
94	10455	9715	9642	9642	10089	9909
95	10568	9807	9734	9755	10224	10018
96	10674	9890	9835	9871	10356	10125
97	10768	9984	9950	9986	10482	10234
98	10877	10085	10076	10118	10593	10350
99	11000	10181	10204	10243	10705	10467
100	11128	10272	10324	10377	10807	10582

	T	U	V	W	X	Y
51	4903	6128	4792	4782	6196	5360
52	5136	4629	5017	5002	6332	5223
53	5336	4765	5217	5211	4658	5037
54	5532	4985	5420	5411	4698	5209
55	5725	5184	5613	5610	4921	5411
56	5925	5373	5808	5805	5136	5609
57	6112	5561	5988	5997	5341	5800
58	6298	5751	6160	6174	5538	5984
59	6477	5926	6303	6349	5738	6159
60	6656	6099	6078	6509	5923	6253
61	6820	6241	5714	6652	6110	6307
62	6969	5805	5952	6735	6283	6349
63	7078	5385	6152	6786	6133	6307
64	7203	5613	6346	6942	5505	6322
65	6321	5807	6530	6181	5752	6118
66	5315	5992	6719	5383	5959	5874
67	5568	6169	6894	5627	6158	6083
68	5791	6347	6657	5857	6347	6200
69	5988	6511	5413	6061	6542	6103
70	6188	6645	5679	6264	6717	6299
71	6389	6786	5911	6466	6875	6485
72	6590	6438	6122	6654	6369	6435
73	6779	5495	6316	6818	5522	6186
74	6963	5751	6516	6939	5773	6388
75	7135	5964	6704	6638	6005	6489
76	7284	6160	6881	6761	6206	6658
77	6777	6350	7023	6966	6407	6705
78	6271	6538	7158	7141	6597	6741
79	6503	6718	6613	6987	6776	6719
80	6704	6870	6377	6234	6936	6624
81	6887	7002	6628	6508	6915	6788
82	7075	7151	6843	6739	6237	6809
83	7253	6643	7030	6946	6500	6874
84	7393	6359	7212	7135	6721	6964
85	7422	6593	7367	7284	6925	7118
86	7140	6794	7503	7395	7109	7188
87	7187	6979	7141	7421	7292	7204
88	7394	7156	7151	7585	7339	7325
89	7564	7315	7367	7693	6478	7283
90	7721	7426	7562	7837	6728	7455
91	7824	7540	7709	7382	6959	7483
92	7868	7619	7832	7045	7165	7506
93	7991	7655	7919	7303	7358	7645
94	8131	7721	7281	7521	7520	7635
95	8278	7754	7421	7727	7661	7768
96	8337	7853	7653	7921	7771	7907
97	7001	7770	7846	8093	7546	7651
98	7194	6952	8026	7923	7264	7472
99	7413	7198	8163	7553	7513	7568
100	7607	7413	8293	7791	7728	7766

	Z	AA	AB	AC	AD	AE
51	5301	5600	4886	4581	6344	5342
52	5355	5719	5092	4800	6504	5494
53	5392	5799	5245	5036	5502	5395
54	5285	5878	5401	5227	4449	5248
55	5258	5922	5569	5408	4664	5364
56	5309	5898	5728	5566	4890	5478
57	5362	5979	5887	5749	5088	5613
58	5433	5953	6032	5939	5267	5725
59	5488	5819	6137	6115	5417	5795
60	5527	5879	5930	6257	5600	5839
61	5579	6019	5726	6383	5790	5899
62	5596	6151	5897	6489	5970	6021
63	5618	6273	6054	6611	6129	6137
64	5662	6347	6191	6404	6293	6179
65	5678	6306	6317	5773	6447	6104
66	5707	6174	6414	6007	6595	6179
67	5719	6293	6483	6217	6342	6211
68	5751	6409	6346	6400	5569	6095
69	5815	6477	6214	6557	5819	6176
70	5883	6482	6361	6696	6036	6292
71	5956	6493	6499	6838	6229	6403
72	6036	6517	6617	6955	6395	6504
73	6105	6596	6711	7090	6556	6612
74	6160	6653	6660	7216	6739	6686
75	6220	6729	6439	7304	6917	6722
76	6273	6840	6595	6375	7087	6634
77	6321	6960	6772	6268	7221	6708
78	6332	7022	6896	6516	7331	6819
79	6382	6703	6961	6730	6228	6601
80	6454	6695	6899	6903	5955	6581
81	6522	6886	7017	7082	6213	6744
82	6570	7027	7160	7247	6440	6889
83	6583	7141	7027	7405	6628	6957
84	6633	7191	6686	7541	6816	6973
85	6732	7231	6897	7659	6991	7102
86	6826	7334	7070	7679	7165	7215
87	6870	7391	7230	7607	7346	7289
88	6872	7344	7367	7443	7505	7306
89	6889	7419	7480	7545	7582	7383
90	6969	7550	7407	7732	7637	7459
91	7043	7668	7284	7900	7746	7528
92	7099	7566	7461	8023	7865	7603
93	7141	7207	7624	7796	6923	7338
94	7178	7401	7713	7181	6816	7258
95	7245	7582	7606	7418	7066	7383
96	7321	7715	7524	7625	7275	7492
97	7383	7791	7690	7809	7461	7627
98	7419	7756	7807	7966	7648	7719
99	7415	7846	7904	8119	7820	7821
100	7456	7971	8029	8256	7981	7939

	AF	AG	AH	AI	AJ	AK
51	5559	5839	5845	6226	6191	5932
52	5638	5912	5605	6211	6318	5937
53	5650	5876	5824	5836	6398	5917
54	5621	5938	5977	5956	5738	5846
55	5658	6017	6084	6081	5441	5856
56	5636	5986	6176	6188	5686	5934
57	5646	5908	6186	6254	5865	5972
58	5689	6016	5668	6120	6028	5904
59	5724	6052	5886	6164	6191	6003
60	5745	6086	6057	6268	6337	6099
61	5754	6128	6182	6245	6425	6147
62	5795	6149	6270	6221	6442	6175
63	5827	6203	6323	6285	6372	6202
64	5849	6215	6209	6297	6477	6209
65	5877	6202	6274	6272	6550	6235
66	5901	6225	6356	6339	6267	6218
67	5945	6282	6407	6407	6085	6225
68	5957	6322	6460	6480	6296	6303
69	5922	6357	6483	6566	6444	6354
70	5981	6411	6426	6615	6576	6402
71	6034	6483	6516	6570	6689	6458
72	6072	6542	6556	6636	6722	6506
73	6111	6574	6662	6751	6647	6549
74	6177	6619	6736	6846	6747	6625
75	6252	6648	6741	6891	6815	6669
76	6327	6691	6733	6891	6879	6704
77	6387	6734	6789	6867	6951	6746
78	6447	6795	6835	6912	6937	6785
79	6466	6863	6910	6946	6827	6802
80	6509	6929	6997	6994	6919	6870
81	6544	6998	7051	7071	7006	6934
82	6560	7048	7072	7133	7110	6985
83	6633	7067	7133	7160	7207	7040
84	6701	7088	7140	7184	7261	7075
85	6758	7120	7222	7180	7187	7093
86	6824	7142	7292	7231	7261	7150
87	6870	7148	7221	7314	7330	7177
88	6900	7220	7244	7352	7357	7215
89	6906	7294	7349	7377	7399	7265
90	6918	7360	7412	7442	7427	7312
91	6957	7407	7498	7480	7395	7347
92	7035	7479	7563	7485	7436	7400
93	7109	7513	7599	7510	7482	7443
94	7183	7560	7590	7606	7567	7501
95	7238	7610	7685	7672	7652	7571
96	7304	7687	7782	7707	7727	7641
97	7364	7749	7884	7730	7752	7696
98	7415	7808	7923	7776	7787	7742
99	7468	7866	7920	7782	7849	7777
100	7530	7907	7905	7817	7916	7815

	AL	AM	AN	AO	AP	AQ
51	5724	5971	5999	5602	5803	5820
52	5621	4990	6131	5775	5921	5688
53	5168	5235	5682	5901	6028	5603
54	5356	5445	5112	6017	6134	5613
55	5467	5602	5397	6120	5560	5629
56	5569	5703	5591	5913	5342	5624
57	5656	5826	5722	5332	5582	5624
58	5706	5862	5842	5600	5730	5748
59	5702	5761	5965	5786	5841	5811
60	5684	5924	6027	5920	5957	5902
61	5771	6038	6048	6014	6082	5991
62	5842	6127	6153	6125	6158	6081
63	5914	6213	6276	6227	6262	6178
64	5969	6164	6382	6273	6345	6227
65	5911	6013	6482	6324	6440	6234
66	5959	6179	6300	6448	6539	6285
67	6009	6160	6103	6549	6621	6288
68	5991	6259	6309	6635	6427	6324
69	6032	6371	6399	6657	6353	6362
70	6117	6464	6518	6149	6501	6350
71	6196	6541	6620	6353	6604	6463
72	6228	6532	6716	6546	6719	6548
73	6244	6558	6516	6676	6827	6564
74	6322	6580	6541	6772	6934	6630
75	6333	6645	6720	6886	6913	6699
76	6384	6737	6825	6944	6874	6753
77	6465	6794	6913	6735	6990	6779
78	6515	6784	7013	6919	7110	6868
79	6560	6856	7085	7055	7213	6954
80	6621	6887	6836	7140	7324	6962
81	6664	6960	6949	7228	7307	7022
82	6720	7018	6994	7303	7024	7012
83	6757	7057	7092	7108	7233	7049
84	6758	7087	7189	7201	7353	7118
85	6788	7155	7262	7280	7459	7189
86	6859	7168	7303	7373	7558	7252
87	6913	7255	7274	7481	7679	7320
88	6998	7363	7358	7597	7670	7397
89	7084	7455	7443	7692	7527	7440
90	7152	7528	7548	7424	7693	7469
91	7191	7574	7652	7528	7816	7552
92	7215	7602	7734	7703	7927	7636
93	7252	7635	7632	7825	8037	7676
94	7259	7721	7617	7930	8093	7724
95	7322	7804	7739	8041	7975	7776
96	7373	7878	7820	7911	8080	7812
97	7437	7966	7913	7694	8195	7841
98	7508	8002	8006	7919	8281	7943
99	7576	7926	8004	8087	8385	7996
100	7638	7918	8018	8213	8489	8055

	AR	AS	AT	AU	AV	AW
51	5493	5471	5980	5710	6265	5784
52	5518	5490	6131	5652	6361	5830
53	5505	5649	6244	5678	6475	5910
54	5559	5762	6353	5756	6563	5999
55	5612	5856	6434	5822	6528	6050
56	5677	5923	5844	5828	5811	5817
57	5709	5952	5865	5864	5984	5875
58	5709	5925	6092	5924	6186	5967
59	5739	6029	6245	5979	6338	6066
60	5776	6119	6372	6021	6449	6147
61	5808	6176	6493	6051	6558	6217
62	5841	6216	6549	6072	6618	6259
63	5848	6183	6395	6108	6362	6179
64	5897	6132	6494	6153	6414	6218
65	5960	6232	6626	6179	6575	6314
66	5978	6287	6718	6235	6681	6380
67	6001	6334	6737	6290	6752	6423
68	6033	6369	6539	6340	6778	6412
69	6093	6430	6630	6398	6780	6466
70	6152	6451	6768	6417	6733	6504
71	6184	6491	6860	6486	6833	6571
72	6215	6589	6978	6555	6941	6656
73	6254	6684	7060	6604	7042	6729
74	6308	6724	6670	6673	7115	6698
75	6339	6800	6724	6719	7152	6747
76	6390	6844	6926	6740	7150	6810
77	6432	6840	7059	6816	7268	6883
78	6472	6879	7175	6841	7354	6944
79	6529	6980	7288	6877	7444	7024
80	6574	7016	7320	6947	7493	7070
81	6632	7049	7254	6988	7345	7054
82	6680	7120	7413	7031	7392	7127
83	6711	7176	7527	7122	7546	7216
84	6748	7231	7632	7168	7650	7286
85	6785	7293	7706	7205	7761	7350
86	6849	7303	7598	7271	7863	7377
87	6914	7345	7642	7344	7876	7424
88	6966	7406	7785	7392	7838	7477
89	6998	7401	7814	7435	7991	7528
90	7038	7406	7841	7484	8113	7576
91	7081	7504	7921	7548	8212	7653
92	7128	7510	7835	7598	8265	7667
93	7182	7515	7782	7628	8278	7677
94	7230	7591	7967	7653	8344	7757
95	7274	7651	8065	7706	8407	7821
96	7302	7661	8114	7721	8450	7850
97	7349	7718	8150	7778	8506	7900
98	7372	7738	7891	7721	8455	7835
99	7361	7658	7960	7629	8347	7791
100	7372	7650	8067	7684	8514	7857

	B	C	D	E	F	G
101	8400	8723	8373	8360	8420	8455
102	8437	8745	8367	8362	8443	8471
103	8470	8709	8329	8372	8405	8457
104	8483	8665	8299	8339	8384	8434
105	8494	8676	8270	8287	8358	8417
106	8471	8612	7834	4254	8254	7485
107	7938	8353	1467	1545	3231	4507
108	1451	1946	1468	1411	1539	1563
109	1426	1467	1569	1481	1404	1469
110	1500	1511	1592	1485	1421	1502
111	1654	1686	1635	1623	1471	1614
112	1642	1731	1798	1823	1594	1718
113	1716	1795	1984	2002	1792	1858
114	1861	1918	2147	2156	1956	2008
115	2042	2125	2286	2313	2084	2170
116	2199	2275	2451	2506	2246	2335
117	2347	2411	2629	2694	2419	2500
118	2525	2595	2813	2888	2599	2684
119	2709	2791	2972	3065	2769	2861
120	2899	2979	3137	3237	2934	3037
121	3071	3157	3304	3416	3097	3209
122	3254	3336	3474	3595	3268	3385
123	3435	3509	3643	3771	3440	3560
124	3612	3684	3825	3958	3617	3739
125	3787	3854	4002	4130	3795	3914
126	3981	4037	4172	4289	3970	4090
127	4175	4214	4326	4446	4122	4257
128	4363	4384	4492	4619	4285	4429
129	4531	4539	4675	4798	4458	4600
130	4712	4699	4860	4961	4646	4776
131	4907	4875	5019	5104	4812	4943
132	5108	5067	5173	5254	4968	5114
133	5279	5235	5345	5427	5122	5282
134	5443	5391	5544	5624	5305	5461
135	5615	5549	5734	5801	5496	5639
136	5818	5733	5900	5958	5672	5816
137	6025	5923	6053	6118	5829	5990
138	6206	6091	6230	6307	6002	6167
139	6374	6240	6421	6493	6191	6344
140	6570	6415	6608	6670	6381	6529
141	6782	6604	6776	6830	6550	6708
142	6989	6793	6946	6997	6714	6888
143	7133	6962	7114	7111	6885	7041
144	7207	7095	7217	7182	7068	7154
145	7275	7170	7287	7243	7183	7232
146	7349	7247	7354	7303	7254	7301
147	7414	7313	7411	7370	7314	7364
148	7484	7377	7476	7433	7380	7430
149	7546	7435	7538	7488	7442	7490
150	7614	7498	7602	7545	7510	7554

	H	I	J	K	L	M
101	8426	8593	8587	8578	8725	8582
102	8457	8627	8607	8622	8766	8616
103	8505	8644	8599	8647	8811	8641
104	8539	8654	8593	8638	8834	8652
105	8566	8649	8574	8619	8841	8650
106	8548	8644	8539	8562	8827	8624
107	8446	8586	8406	8428	8794	8532
108	3812	8231	4677	6790	8695	6441
109	1463	1453	1405	1422	8375	2824
110	1543	1465	1532	1523	1744	1561
111	1603	1524	1633	1690	1423	1575
112	1712	1629	1708	1890	1575	1703
113	1872	1729	1807	2064	1682	1831
114	2066	1866	1918	2196	1782	1966
115	2249	2010	2028	2311	1920	2104
116	2412	2172	2111	2455	2090	2248
117	2527	2353	2207	2629	2244	2392
118	2648	2548	2323	2805	2358	2536
119	2805	2712	2487	2946	2451	2680
120	2978	2846	2663	3049	2561	2819
121	3131	2977	2839	3161	2704	2962
122	3246	3133	2976	3304	2856	3103
123	3341	3291	3087	3449	2979	3229
124	3467	3434	3213	3570	3062	3349
125	3606	3542	3365	3653	3147	3463
126	3744	3644	3506	3744	3271	3582
127	3843	3767	3624	3864	3399	3699
128	3914	3914	3701	3995	3518	3808
129	4007	4050	3794	4112	3595	3912
130	4135	4166	3916	4200	3658	4015
131	4262	4265	4050	4272	3752	4120
132	4370	4378	4163	4364	3873	4230
133	4449	4506	4251	4466	3987	4332
134	4535	4635	4332	4554	4072	4426
135	4643	4735	4438	4626	4137	4516
136	4758	4812	4544	4683	4222	4604
137	4852	4886	4639	4754	4327	4692
138	4927	4973	4706	4830	4431	4773
139	4992	5059	4772	4903	4520	4849
140	5082	5139	4843	4966	4589	4924
141	5171	5204	4926	5024	4658	4997
142	5260	5270	5002	5077	4740	5070
143	5330	5337	5073	5144	4818	5140
144	5390	5417	5127	5212	4892	5208
145	5454	5493	5185	5284	4958	5275
146	5535	5560	5254	5342	5013	5341
147	5616	5616	5335	5389	5075	5406
148	5695	5680	5405	5446	5148	5475
149	5751	5745	5466	5516	5220	5540
150	5809	5825	5517	5586	5283	5604

	N	O	P	Q	R	S
101	11238	10343	10436	10502	10911	10686
102	11348	10440	10534	10626	11007	10791
103	11434	10494	10625	10730	11101	10877
104	11515	10543	10691	10819	11182	10950
105	11575	10605	10748	10881	11251	11012
106	11617	10643	10796	10935	11292	11057
107	11652	10661	10823	10969	11318	11085
108	11672	10637	10831	10993	11302	11087
109	11643	10575	10825	10975	11247	11053
110	11576	10496	10773	10936	11148	10986
111	11432	10408	10672	10823	11008	10869
112	11265	10298	10546	10652	10844	10721
113	11098	10122	10353	10440	10622	10527
114	10980	9648	9692	10097	10141	10112
115	10823	3477	1633	5540	4126	5120
116	10532	1425	1426	1461	1489	3267
117	5145	1531	1425	1589	1593	2257
118	1468	1596	1551	1718	1649	1596
119	1511	1714	1631	1826	1777	1692
120	1595	1771	1784	1962	1901	1803
121	1663	1985	1915	2117	2015	1939
122	1794	2170	2063	2271	2153	2090
123	1917	2298	2220	2408	2323	2233
124	2023	2460	2390	2535	2470	2376
125	2156	2641	2548	2652	2610	2521
126	2318	2811	2678	2787	2722	2663
127	2485	2945	2794	2927	2834	2797
128	2647	3058	2932	3056	2962	2931
129	2796	3177	3068	3164	3097	3060
130	2940	3309	3206	3277	3214	3189
131	3095	3462	3327	3398	3310	3318
132	3243	3593	3436	3533	3403	3442
133	3394	3696	3552	3655	3519	3563
134	3519	3797	3682	3762	3640	3680
135	3644	3917	3804	3850	3753	3794
136	3785	4037	3907	3956	3841	3905
137	3930	4145	3993	4069	3922	4012
138	4056	4234	4082	4178	4013	4113
139	4161	4317	4182	4271	4124	4211
140	4250	4414	4290	4358	4225	4307
141	4353	4524	4379	4452	4313	4404
142	4460	4621	4459	4556	4386	4496
143	4565	4702	4540	4651	4480	4588
144	4647	4776	4637	4736	4579	4675
145	4727	4867	4735	4809	4677	4763
146	4819	4962	4824	4888	4754	4849
147	4924	5049	4892	4967	4828	4932
148	5022	5112	4964	5046	4900	5009
149	5101	5179	5040	5113	4981	5083
150	5167	5252	5124	5181	5053	5155

	T	U	V	W	X	Y
101	7771	7598	8341	7996	7920	7925
102	7928	7769	8420	8174	8065	8071
103	8056	7923	8086	8325	7621	8002
104	8171	8071	7688	8408	7608	7989
105	8213	8186	7939	8481	7845	8133
106	8199	8278	8166	8616	8038	8259
107	8165	8310	8354	4169	8218	7443
108	8233	7779	8492	1431	8101	6807
109	8309	7801	4412	1595	7347	5893
110	7728	7990	1448	1752	7601	5304
111	1415	8131	1573	1870	7827	4163
112	1520	8236	1716	1948	8024	4289
113	1672	6012	1917	2059	8205	3973
114	1853	1450	2126	2223	3844	2299
115	2011	1614	2293	2387	1419	1945
116	2104	1748	2427	2514	1566	2072
117	2221	1843	2600	2616	1710	2198
118	2388	1971	2797	2749	1806	2342
119	2564	2173	2985	2916	1904	2508
120	2709	2373	3120	3068	2032	2660
121	2811	2541	3252	3183	2214	2800
122	2929	2673	3397	3282	2397	2936
123	3092	2829	3569	3406	2538	3087
124	3256	3012	3727	3553	2667	3243
125	3402	3189	3862	3695	2843	3398
126	3516	3331	3984	3811	3032	3535
127	3650	3457	4124	3919	3198	3670
128	3810	3595	4276	4051	3318	3810
129	3979	3764	4418	4196	3446	3961
130	4121	3923	4530	4336	3595	4101
131	4249	4059	4639	4455	3764	4233
132	4380	4179	4752	4567	3912	4358
133	4528	4309	4885	4688	4031	4488
134	4674	4453	5003	4821	4143	4619
135	4806	4599	5103	4945	4279	4746
136	4916	4717	5194	5054	4423	4861
137	5035	4825	5300	5157	4553	4974
138	5159	4938	5404	5270	4657	5086
139	5292	5064	5505	5388	4767	5203
140	5406	5185	5581	5492	4885	5310
141	5514	5289	5663	5583	5015	5413
142	5624	5383	5747	5670	5124	5510
143	5744	5491	5841	5756	5220	5610
144	5854	5600	5920	5847	5316	5707
145	5956	5703	5998	5931	5428	5803
146	6038	5793	6072	6011	5531	5889
147	6120	5874	6156	6091	5624	5973
148	6205	5957	6231	6172	5700	6053
149	6294	6050	6316	6253	5785	6140
150	6371	6132	6391	6336	5873	6221

	Z	AA	AB	AC	AD	AE
101	7494	8026	8156	8201	8122	8000
102	7505	7819	8217	7819	8257	7923
103	7489	7936	7558	8008	8347	7868
104	7518	8084	7567	8193	7466	7766
105	7558	8191	7783	8367	7423	7864
106	7569	8211	7956	8521	7662	7984
107	7551	8218	8103	8671	7868	8082
108	7535	8195	8237	8670	8050	8137
109	2329	8157	8364	7640	8225	6943
110	1485	8154	8294	7823	8395	6830
111	1550	8121	7775	8032	8550	6806
112	1635	8183	7901	8212	8674	6921
113	1782	7984	8058	8378	8121	6865
114	1940	1505	8149	8547	7355	5499
115	2112	1621	2572	8711	6457	4295
116	2234	1698	1465	6285	1516	2640
117	2297	1790	1585	1420	1636	1746
118	2384	1942	1656	1575	1726	1857
119	2531	2089	1743	1676	1836	1975
120	2672	2198	1889	1764	1969	2098
121	2775	2274	2042	1878	2099	2214
122	2834	2362	2173	2027	2205	2320
123	2905	2470	2258	2175	2295	2421
124	3007	2590	2332	2268	2383	2516
125	3124	2689	2438	2333	2472	2611
126	3213	2773	2558	2421	2562	2705
127	3288	2850	2663	2529	2656	2797
128	3360	2932	2751	2632	2747	2884
129	3442	3012	2832	2721	2825	2966
130	3518	3104	2910	2799	2896	3045
131	3597	3191	2991	2871	2965	3123
132	3676	3267	3075	2939	3042	3200
133	3747	3331	3166	3016	3116	3275
134	3800	3401	3244	3099	3185	3346
135	3851	3471	3316	3178	3240	3411
136	3915	3542	3380	3238	3300	3475
137	3983	3596	3450	3288	3358	3535
138	4046	3644	3513	3333	3412	3590
139	4103	3692	3570	3391	3453	3642
140	4163	3745	3613	3445	3497	3693
141	4231	3791	3662	3497	3540	3744
142	4297	3837	3711	3536	3590	3794
143	4356	3877	3762	3584	3640	3844
144	4406	3928	3808	3634	3685	3892
145	4468	3986	3852	3686	3724	3943
146	4535	4048	3899	3731	3773	3997
147	4603	4103	3960	3780	3826	4054
148	4665	4160	4024	3829	3885	4113
149	4724	4212	4089	3890	3941	4171
150	4776	4276	4148	3944	3996	4228

	AF	AG	AH	AI	AJ	AK
101	7547	7877	7856	7705	7972	7791
102	7567	7815	7551	7645	7953	7706
103	7582	7757	7177	7675	7762	7591
104	7550	2169	1548	2867	7808	4388
105	7496	1655	1774	1433	7924	4056
106	7551	1898	1850	1698	6743	3948
107	7596	2017	1852	1833	1539	2967
108	2996	1992	1930	1825	1817	2112
109	1409	2045	2148	1868	2017	1897
110	1668	2236	2333	2064	2040	2068
111	1918	2430	2481	2265	2039	2227
112	2069	2593	2551	2428	2130	2354
113	2051	2700	2562	2541	2321	2435
114	2100	2703	2627	2548	2483	2492
115	2281	2750	2786	2583	2619	2604
116	2495	2903	2935	2730	2664	2745
117	2665	3064	3065	2882	2671	2869
118	2802	3199	3137	3013	2760	2982
119	2811	3295	3149	3115	2912	3056
120	2851	3303	3202	3130	3034	3104
121	2995	3336	3329	3153	3147	3192
122	3172	3455	3453	3259	3182	3304
123	3316	3592	3553	3384	3179	3405
124	3438	3707	3608	3482	3245	3496
125	3458	3788	3618	3566	3367	3559
126	3487	3796	3671	3574	3473	3600
127	3595	3835	3791	3612	3570	3681
128	3745	3942	3905	3718	3608	3784
129	3860	4059	4001	3838	3619	3875
130	3963	4161	4051	3934	3684	3959
131	3980	4228	4071	4007	3798	4017
132	4018	4246	4121	4025	3890	4060
133	4115	4288	4220	4063	3980	4133
134	4246	4376	4319	4151	4017	4222
135	4354	4487	4412	4258	4038	4310
136	4444	4590	4461	4354	4092	4388
137	4466	4659	4485	4426	4189	4445
138	4504	4683	4530	4448	4284	4490
139	4582	4722	4616	4481	4370	4554
140	4690	4806	4712	4561	4411	4636
141	4780	4910	4802	4658	4439	4718
142	4862	5000	4850	4752	4493	4791
143	4888	5061	4884	4818	4588	4848
144	4922	5095	4936	4851	4683	4897
145	4997	5141	5019	4893	4771	4964
146	5101	5219	5111	4968	4815	5043
147	5193	5316	5201	5062	4852	5125
148	5271	5403	5258	5152	4912	5199
149	5304	5467	5299	5219	5004	5259
150	5342	5504	5345	5260	5097	5310

	AL	AM	AN	AO	AP	AQ
101	7680	7967	8045	8329	8483	8101
102	7716	8033	8088	8435	8029	8060
103	7720	8079	8122	8175	8191	8057
104	7691	8095	8197	8201	8358	8108
105	7581	7898	8208	8349	8485	8104
106	7509	2573	7648	8443	8598	6954
107	6591	1424	1456	8541	8709	5344
108	1545	1688	1713	8619	5613	3836
109	1786	1943	1911	5976	1577	2639
110	1956	2033	1966	1692	1719	1873
111	2003	1985	1916	1859	1708	1894
112	1981	2027	1959	1858	1694	1904
113	2036	2187	2152	1839	1773	1997
114	2243	2384	2335	1909	1984	2171
115	2441	2554	2489	2113	2181	2356
116	2607	2698	2624	2293	2342	2513
117	2726	2759	2636	2439	2447	2601
118	2734	2753	2624	2563	2438	2622
119	2727	2811	2719	2571	2432	2652
120	2841	2954	2864	2550	2560	2754
121	2994	3101	2991	2668	2708	2892
122	3131	3212	3105	2813	2831	3018
123	3248	3315	3189	2924	2949	3125
124	3320	3326	3184	3033	3013	3175
125	3317	3344	3223	3107	2996	3197
126	3369	3433	3324	3088	3054	3254
127	3474	3565	3448	3141	3165	3359
128	3597	3659	3543	3252	3257	3462
129	3697	3759	3642	3353	3336	3557
130	3792	3817	3682	3432	3420	3629
131	3828	3831	3697	3522	3432	3662
132	3855	3872	3752	3542	3452	3695
133	3923	3975	3860	3557	3523	3768
134	4043	4081	3955	3618	3617	3863
135	4147	4184	4045	3719	3691	3957
136	4244	4259	4105	3803	3780	4038
137	4307	4285	4124	3888	3825	4086
138	4340	4313	4157	3933	3841	4117
139	4387	4384	4239	3951	3887	4170
140	4473	4475	4334	3995	3973	4250
141	4573	4572	4426	4078	4067	4343
142	4666	4650	4508	4167	4160	4430
143	4740	4706	4550	4256	4233	4497
144	4781	4732	4576	4332	4264	4537
145	4807	4777	4627	4365	4293	4574
146	4866	4846	4712	4391	4353	4634
147	4949	4938	4807	4446	4441	4716
148	5039	5024	4893	4534	4534	4805
149	5119	5096	4957	4625	4620	4883
150	5178	5126	4994	4710	4677	4937

	AR	AS	AT	AU	AV	AW
101	7394	7696	8098	7577	8587	7870
102	7405	7555	8178	7233	8494	7773
103	7381	6825	8086	1528	8610	6486
104	7327	1462	7451	1401	8726	5273
105	3010	1625	1879	1569	8225	3262
106	1455	1814	1546	1773	7568	2831
107	1514	1981	1728	1939	3626	2158
108	1600	2069	1898	2008	1571	1829
109	1751	2116	1990	2051	1753	1932
110	1941	2206	2029	2133	1884	2039
111	2108	2339	2096	2260	1933	2147
112	2211	2462	2222	2371	2009	2255
113	2270	2567	2335	2469	2139	2356
114	2347	2609	2435	2509	2274	2435
115	2459	2650	2482	2540	2391	2504
116	2580	2718	2507	2605	2454	2573
117	2681	2807	2558	2680	2480	2641
118	2739	2885	2631	2742	2531	2706
119	2779	2960	2695	2803	2606	2769
120	2837	2992	2761	2827	2675	2818
121	2914	3016	2788	2848	2737	2861
122	2995	3066	2804	2899	2767	2906
123	3061	3131	2843	2953	2780	2954
124	3107	3182	2899	2998	2816	3000
125	3134	3232	2939	3046	2864	3043
126	3176	3262	2979	3072	2909	3080
127	3242	3283	3009	3087	2934	3111
128	3309	3318	3032	3126	2962	3149
129	3366	3365	3068	3177	2973	3190
130	3402	3413	3126	3231	2997	3234
131	3424	3473	3176	3290	3039	3280
132	3462	3507	3238	3319	3077	3321
133	3514	3531	3281	3343	3116	3357
134	3572	3571	3315	3389	3148	3399
135	3630	3626	3358	3446	3170	3446
136	3674	3686	3416	3512	3210	3500
137	3709	3749	3483	3564	3256	3552
138	3759	3788	3548	3596	3311	3600
139	3825	3826	3591	3628	3367	3647
140	3892	3875	3627	3674	3410	3696
141	3949	3942	3671	3725	3438	3745
142	3997	4010	3736	3780	3476	3800
143	4032	4078	3802	3837	3528	3855
144	4079	4120	3866	3880	3586	3906
145	4134	4163	3912	3914	3645	3954
146	4203	4216	3952	3968	3689	4006
147	4269	4286	4006	4032	3721	4063
148	4315	4357	4074	4107	3767	4124
149	4349	4422	4147	4174	3822	4183
150	4396	4469	4222	4223	3893	4241

	B	C	D	E	F	G
151	7680	7559	7662	7601	7570	7614
152	7750	7625	7729	7659	7632	7679
153	7814	7679	7792	7718	7690	7739
154	7880	7740	7856	7784	7749	7802
155	7939	7799	7918	7851	7811	7864
156	8004	7857	7980	7915	7876	7926
157	8064	7911	8042	7976	7937	7986
158	8135	7970	8106	8034	8004	8050
159	8271	8037	8181	8180	8062	8146
160	8514	8230	8386	8411	8127	8334
161	8742	8446	8611	8627	8240	8533
162	8973	8670	8837	8843	8470	8759
163	9204	8889	9045	9041	8682	8972
164	9437	9111	9252	9244	8890	9187
165	9658	9319	9452	9447	9091	9393
166	9877	9526	9670	9657	9305	9607
167	10096	9724	9877	9852	9511	9812
168	10328	9942	10084	10048	9714	10023
169	10548	10150	10280	10236	9906	10224
170	10767	10356	10488	10441	10107	10432
171	10977	10551	10695	10640	10306	10634
172	11198	10761	10906	10835	10509	10842
173	11419	10967	11101	11020	10699	11041
174	11640	11181	11305	11220	10893	11248
175	11850	11379	11506	11414	11086	11447
176	12066	11585	11711	11611	11287	11652
177	12282	11790	11909	11795	11475	11850
178	12501	12004	12111	11991	11668	12055
179	12709	12209	12303	12182	11854	12251
180	12918	12415	12507	12382	12053	12455
181	13122	12613	12704	12568	12241	12650
182	13332	12823	12905	12763	12436	12852
183	13535	13022	13100	12951	12625	13047
184	13740	13220	13302	13150	12818	13246
185	13941	13415	13496	13338	13010	13440
186	14149	13616	13696	13532	13207	13640
187	14347	13808	13882	13721	13396	13831
188	14545	14004	14078	13918	13592	14027
189	14740	14193	14270	14102	13782	14217
190	14941	14393	14468	14295	13980	14415
191	15137	14587	14654	14478	14167	14605
192	15337	14787	14850	14671	14358	14801
193	15526	14979	15044	14857	14548	14991
194	15719	15177	15244	15051	14744	15187
195	15910	15373	15431	15236	14931	15376
196	16102	15575	15625	15429	15122	15571
197	16288	15771	15817	15615	15308	15760
198	16478	15970	16020	15814	15506	15958
199	16659	16165	16213	16000	15695	16146
200	16847	16368	16412	16192	15890	16342

	H	I	J	K	L	M
151	5875	5887	5584	5643	5333	5664
152	5959	5944	5651	5691	5390	5727
153	6034	6001	5726	5744	5456	5792
154	6096	6069	5784	5807	5530	5857
155	6149	6137	5836	5874	5596	5918
156	6214	6203	5892	5936	5647	5978
157	6286	6256	5963	5986	5699	6038
158	6363	6313	6027	6038	5760	6100
159	6425	6367	6090	6097	5827	6161
160	6486	6432	6137	6165	5891	6222
161	6547	6498	6192	6229	5945	6282
162	6622	6562	6253	6286	5999	6344
163	6692	6621	6326	6343	6055	6407
164	6762	6690	6384	6401	6124	6472
165	6813	6760	6442	6464	6190	6534
166	6872	6838	6493	6528	6249	6596
167	6932	6904	6558	6585	6302	6656
168	7004	6969	6621	6638	6360	6718
169	7069	7020	6690	6691	6420	6778
170	7130	7061	6748	6749	6486	6835
171	7165	7098	6805	6809	6545	6884
172	7199	7138	6856	6870	6600	6933
173	7232	7176	6917	6929	6652	6981
174	7277	7217	6975	6995	6702	7033
175	7323	7256	7040	7063	6753	7087
176	7366	7302	7091	7114	6827	7140
177	7399	7348	7132	7164	6889	7186
178	7439	7397	7165	7210	6950	7232
179	7481	7441	7206	7252	7009	7278
180	7535	7488	7245	7296	7067	7326
181	7581	7533	7287	7345	7108	7371
182	7627	7584	7322	7395	7147	7415
183	7672	7630	7365	7447	7180	7459
184	7728	7678	7405	7493	7218	7504
185	7780	7723	7454	7536	7258	7550
186	7835	7775	7500	7581	7303	7599
187	7880	7823	7545	7632	7350	7646
188	7930	7881	7587	7685	7397	7696
189	7982	7958	7633	7736	7437	7749
190	8037	8113	7677	7785	7484	7819
191	8125	8257	7730	7837	7528	7895
192	8297	8401	7778	7899	7577	7990
193	8453	8534	7827	8050	7624	8098
194	8604	8667	7875	8208	7670	8205
195	8744	8788	8007	8347	7714	8320
196	8882	8914	8163	8475	7765	8440
197	9006	9035	8311	8604	7816	8554
198	9134	9165	8440	8736	7892	8673
199	9255	9287	8572	8860	8037	8802
200	9388	9410	8695	8982	8180	8931

	N	O	P	Q	R	S
151	5247	5333	5191	5246	5121	5228
152	5329	5402	5254	5315	5176	5295
153	5412	5463	5313	5373	5236	5359
154	5475	5519	5360	5433	5298	5417
155	5537	5586	5442	5486	5360	5482
156	5598	5652	5483	5548	5416	5539
157	5669	5720	5542	5608	5475	5603
158	5737	5782	5628	5675	5528	5670
159	5805	5844	5668	5738	5592	5729
160	5863	5904	5763	5801	5653	5797
161	5930	5973	5828	5860	5719	5862
162	5999	6036	5895	5922	5776	5926
163	6074	6098	5955	5984	5835	5989
164	6141	6153	6020	6048	5894	6051
165	6209	6213	6083	6101	5959	6113
166	6270	6273	6149	6157	6018	6173
167	6339	6338	6206	6210	6073	6233
168	6406	6395	6264	6274	6124	6293
169	6476	6395	6317	6332	6185	6341
170	6537	6478	6378	6391	6244	6406
171	6600	6552	6435	6441	6306	6467
172	6664	6579	6494	6502	6358	6519
173	6739	6628	6546	6559	6412	6577
174	6803	6738	6607	6621	6468	6647
175	6856	6800	6671	6673	6530	6706
176	6887	6853	6739	6733	6585	6759
177	6923	6898	6798	6796	6640	6811
178	6960	6939	6854	6855	6695	6861
179	7003	6975	6897	6897	6755	6905
180	7040	7007	6936	6934	6813	6946
181	7082	7047	6970	6966	6864	6986
182	7120	7085	7009	7003	6905	7024
183	7165	7127	7043	7042	6950	7065
184	7206	7162	7084	7083	6988	7105
185	7250	7202	7124	7123	7027	7145
186	7289	7240	7168	7164	7064	7185
187	7336	7284	7210	7204	7101	7227
188	7377	7319	7251	7246	7138	7266
189	7423	7360	7289	7287	7177	7307
190	7465	7398	7333	7330	7214	7348
191	7509	7439	7373	7370	7256	7389
192	7549	7478	7395	7411	7295	7426
193	7593	7523	7438	7452	7338	7469
194	7635	7562	7503	7496	7376	7514
195	7680	7604	7521	7538	7416	7552
196	7719	7639	7567	7581	7458	7593
197	7764	7679	7631	7623	7501	7640
198	7811	7720	7673	7663	7539	7681
199	7900	7772	7713	7705	7582	7734
200	8010	7875	7757	7750	7623	7803

	T	U	V	W	X	Y
151	6452	6215	6469	6417	5963	6303
152	6525	6292	6546	6496	6039	6380
153	6610	6375	6629	6576	6118	6462
154	6687	6455	6706	6655	6193	6539
155	6767	6540	6790	6738	6275	6622
156	6842	6619	6859	6818	6354	6698
157	6917	6698	6934	6888	6437	6775
158	6970	6774	7001	6934	6517	6839
159	7011	6853	7045	6974	6596	6896
160	7047	6929	7085	7018	6671	6950
161	7085	6983	7129	7060	6753	7002
162	7118	7024	7172	7100	6829	7049
163	7154	7061	7221	7140	6906	7096
164	7191	7100	7266	7181	6952	7138
165	7233	7142	7316	7224	6994	7182
166	7269	7183	7361	7266	7033	7222
167	7307	7224	7403	7307	7078	7264
168	7342	7265	7445	7346	7117	7303
169	7387	7307	7496	7389	7158	7347
170	7426	7353	7536	7431	7195	7388
171	7466	7396	7579	7473	7239	7431
172	7504	7437	7617	7512	7280	7470
173	7547	7479	7660	7550	7323	7512
174	7586	7522	7702	7591	7360	7552
175	7631	7565	7750	7631	7398	7595
176	7667	7606	7789	7672	7435	7634
177	7710	7648	7831	7715	7479	7677
178	7747	7688	7867	7754	7515	7714
179	7793	7732	7910	7793	7554	7756
180	7831	7775	7947	7835	7591	7796
181	7878	7817	7991	7879	7629	7839
182	7915	7861	8028	7926	7666	7879
183	7964	7904	8075	8035	7709	7937
184	8071	7943	8131	8166	7746	8011
185	8211	7988	8247	8288	7787	8104
186	8322	8034	8365	8392	7824	8187
187	8427	8134	8476	8481	7873	8278
188	8526	8262	8576	8569	7916	8370
189	8629	8384	8674	8659	7978	8465
190	8721	8492	8754	8742	8098	8561
191	8811	8595	8836	8817	8226	8657
192	8895	8677	8912	8886	8336	8741
193	8984	8762	8997	8960	8433	8827
194	9069	8844	9076	9037	8512	8908
195	9159	8928	9155	9109	8595	8989
196	9233	9000	9224	9181	8677	9063
197	9320	9074	9307	9257	8761	9144
198	9403	9145	9384	9335	8829	9219
199	9492	9222	9465	9415	8906	9300
200	9574	9297	9537	9494	8980	9376

	Z	AA	AB	AC	AD	AE
151	4839	4346	4209	3996	4048	4288
152	4910	4415	4271	4038	4098	4346
153	4979	4478	4340	4091	4153	4408
154	5043	4539	4405	4146	4214	4469
155	5106	4599	4471	4211	4276	4533
156	5170	4668	4531	4274	4339	4596
157	5237	4735	4591	4338	4399	4660
158	5306	4807	4647	4394	4460	4723
159	5375	4871	4715	4461	4518	4788
160	5445	4935	4778	4520	4585	4853
161	5514	4995	4842	4589	4649	4918
162	5573	5064	4902	4654	4714	4981
163	5639	5127	4963	4723	4774	5045
164	5703	5195	5021	4782	4837	5108
165	5769	5254	5086	4842	4892	5169
166	5826	5318	5145	4899	4950	5228
167	5887	5377	5203	4962	5003	5286
168	5948	5443	5259	5016	5061	5345
169	6012	5504	5319	5075	5116	5405
170	6069	5565	5377	5131	5176	5464
171	6126	5622	5439	5192	5230	5522
172	6183	5684	5494	5245	5284	5578
173	6247	5738	5554	5301	5340	5636
174	6303	5801	5609	5352	5395	5692
175	6363	5856	5672	5415	5451	5751
176	6417	5916	5727	5468	5510	5808
177	6479	5974	5784	5528	5565	5866
178	6539	6036	5837	5580	5622	5923
179	6601	6096	5893	5638	5675	5981
180	6658	6159	5943	5691	5729	6036
181	6722	6216	5998	5750	5785	6094
182	6780	6276	6052	5803	5842	6151
183	6844	6333	6109	5862	5895	6209
184	6901	6398	6159	5916	5948	6264
185	6969	6456	6216	5972	6002	6323
186	7034	6518	6269	6025	6060	6381
187	7101	6574	6327	6083	6116	6440
188	7159	6634	6381	6139	6174	6497
189	7224	6695	6435	6202	6230	6557
190	7289	6759	6488	6260	6289	6617
191	7352	6817	6547	6320	6347	6677
192	7395	6880	6598	6376	6408	6731
193	7436	6937	6657	6437	6467	6787
194	7476	6999	6709	6497	6529	6842
195	7518	7058	6766	6559	6589	6898
196	7561	7123	6820	6619	6651	6955
197	7607	7186	6881	6685	6716	7015
198	7650	7253	6940	6749	6787	7076
199	7697	7320	7006	6820	6856	7140
200	7740	7386	7070	6891	6929	7203

	AF	AG	AH	AI	AJ	AK
151	5408	5545	5425	5301	5179	5372
152	5508	5612	5515	5365	5231	5446
153	5597	5701	5600	5452	5270	5524
154	5677	5786	5652	5539	5322	5595
155	5716	5850	5693	5603	5405	5653
156	5759	5883	5737	5637	5490	5701
157	5819	5923	5815	5677	5569	5761
158	5911	5991	5894	5742	5613	5830
159	5995	6072	5977	5821	5653	5904
160	6068	6152	6029	5898	5704	5970
161	6099	6212	6071	5956	5780	6024
162	6138	6250	6118	5994	5860	6072
163	6197	6293	6185	6035	5932	6128
164	6283	6356	6262	6094	5978	6195
165	6362	6431	6339	6170	6017	6264
166	6430	6507	6394	6243	6066	6328
167	6468	6556	6435	6302	6137	6380
168	6510	6582	6479	6343	6209	6425
169	6560	6602	6544	6382	6278	6473
170	6618	6630	6607	6440	6324	6524
171	6659	6671	6654	6510	6362	6571
172	6702	6719	6685	6579	6410	6619
173	6728	6761	6710	6619	6481	6660
174	6754	6791	6736	6644	6556	6696
175	6780	6822	6776	6670	6621	6734
176	6820	6861	6820	6704	6652	6771
177	6862	6907	6867	6746	6678	6812
178	6908	6956	6904	6792	6706	6853
179	6935	7001	6939	6833	6746	6891
180	6961	7037	6971	6868	6788	6925
181	6993	7073	7007	6900	6831	6961
182	7038	7108	7047	6938	6863	6999
183	7081	7149	7091	6979	6894	7039
184	7126	7193	7126	7021	6927	7079
185	7156	7233	7157	7061	6968	7115
186	7189	7264	7187	7093	7009	7148
187	7222	7295	7222	7123	7054	7183
188	7261	7329	7262	7155	7088	7219
189	7302	7372	7304	7194	7121	7259
190	7348	7411	7338	7236	7151	7297
191	7379	7448	7371	7271	7189	7332
192	7408	7479	7400	7300	7231	7364
193	7437	7508	7436	7329	7273	7397
194	7479	7542	7476	7363	7301	7432
195	7518	7640	7524	7402	7330	7483
196	7564	7749	7618	7440	7361	7546
197	7625	7833	7703	7477	7403	7608
198	7718	7900	7774	7539	7445	7675
199	7798	7962	7861	7628	7504	7751
200	7893	8036	7949	7717	7609	7841

	AL	AM	AN	AO	AP	AQ
151	5212	5166	5034	4763	4710	4977
152	5258	5220	5099	4794	4755	5025
153	5324	5301	5182	4840	4826	5095
154	5407	5380	5266	4907	4911	5174
155	5486	5459	5341	4989	4992	5253
156	5555	5511	5389	5068	5061	5317
157	5601	5555	5425	5133	5101	5363
158	5640	5593	5470	5173	5138	5403
159	5687	5654	5538	5209	5189	5455
160	5759	5726	5616	5259	5258	5524
161	5838	5806	5693	5322	5335	5599
162	5916	5867	5751	5399	5408	5668
163	5972	5910	5790	5469	5462	5721
164	6014	5938	5827	5520	5499	5760
165	6055	5991	5886	5555	5541	5806
166	6117	6054	5956	5597	5601	5865
167	6185	6129	6032	5658	5672	5935
168	6263	6196	6096	5732	5744	6006
169	6326	6252	6147	5804	5805	6067
170	6376	6288	6182	5865	5846	6111
171	6416	6334	6226	5912	5882	6154
172	6465	6389	6287	5952	5927	6204
173	6528	6461	6359	5999	5986	6267
174	6603	6530	6425	6065	6053	6335
175	6669	6594	6481	6137	6118	6400
176	6729	6634	6523	6208	6163	6451
177	6770	6675	6566	6263	6198	6494
178	6799	6719	6618	6301	6236	6535
179	6828	6765	6685	6343	6288	6582
180	6869	6804	6747	6402	6350	6634
181	6912	6857	6791	6472	6410	6688
182	6954	6893	6822	6537	6461	6733
183	6986	6926	6850	6597	6494	6771
184	7019	6959	6882	6637	6522	6804
185	7052	7000	6921	6675	6560	6842
186	7090	7046	6966	6715	6613	6886
187	7130	7100	7015	6769	6672	6937
188	7178	7146	7062	6822	6733	6988
189	7220	7192	7102	6866	6784	7033
190	7257	7224	7137	6905	6828	7070
191	7287	7265	7176	6942	6867	7107
192	7323	7309	7221	6975	6907	7147
193	7367	7363	7272	7019	6955	7195
194	7415	7409	7319	7071	7007	7244
195	7459	7454	7362	7128	7054	7291
196	7501	7489	7400	7180	7096	7333
197	7538	7525	7442	7224	7136	7373
198	7575	7562	7484	7266	7180	7413
199	7613	7616	7536	7311	7228	7461
200	7659	7739	7588	7360	7279	7525

	AR	AS	AT	AU	AV	AW
151	4459	4509	4269	4261	3961	4292
152	4529	4554	4311	4312	4016	4344
153	4593	4617	4359	4375	4058	4400
154	4637	4683	4425	4443	4109	4459
155	4673	4744	4494	4506	4171	4518
156	4724	4785	4560	4549	4243	4572
157	4786	4828	4599	4583	4308	4621
158	4853	4882	4641	4632	4357	4673
159	4913	4949	4690	4691	4394	4727
160	4957	5017	4755	4758	4440	4785
161	4995	5081	4820	4812	4500	4842
162	5049	5125	4880	4855	4567	4895
163	5112	5168	4920	4890	4631	4944
164	5181	5224	4960	4945	4680	4998
165	5242	5290	5013	5004	4719	5054
166	5289	5355	5077	5072	4771	5113
167	5331	5413	5141	5128	4831	5169
168	5383	5452	5201	5173	4894	5221
169	5442	5500	5242	5212	4954	5270
170	5512	5554	5285	5265	4999	5323
171	5569	5614	5335	5323	5040	5376
172	5611	5673	5397	5386	5091	5432
173	5651	5726	5460	5434	5147	5484
174	5705	5760	5514	5473	5214	5533
175	5765	5798	5548	5508	5274	5579
176	5832	5838	5580	5554	5321	5625
177	5885	5889	5624	5605	5357	5672
178	5928	5936	5677	5658	5407	5721
179	5969	5980	5727	5698	5464	5768
180	6030	6023	5770	5729	5527	5816
181	6106	6078	5801	5763	5579	5865
182	6189	6144	5835	5809	5616	5919
183	6263	6229	5882	5864	5646	5977
184	6328	6310	5952	5933	5689	6042
185	6389	6381	6025	5991	5736	6104
186	6464	6440	6092	6044	5789	6166
187	6548	6505	6144	6100	5836	6227
188	6631	6578	6200	6172	5882	6293
189	6704	6662	6267	6256	5931	6364
190	6766	6739	6347	6350	6000	6440
191	6828	6808	6431	6425	6082	6515
192	6901	6865	6515	6496	6172	6590
193	6966	6929	6581	6566	6253	6659
194	7015	6992	6654	6650	6321	6726
195	7057	7042	6734	6734	6384	6790
196	7096	7086	6823	6821	6462	6858
197	7134	7128	6899	6888	6547	6919
198	7174	7165	6943	6952	6636	6974
199	7216	7208	6980	6992	6709	7021
200	7257	7245	7017	7038	6776	7067

	B	C	D	E	F	G
201	17024	16565	16602	16379	16075	16529
202	17203	16765	16804	16581	16274	16725
203	17378	16955	17000	16772	16464	16914
204	17560	17157	17205	16971	16662	17111
205	17733	17357	17401	17158	16848	17299
206	17912	17561	17605	17357	17047	17496
207	18083	17754	17802	17549	17237	17685
208	18259	17956	18005	17748	17437	17881
209	18432	18152	18198	17937	17626	18069
210	18612	18355	18402	18137	17826	18266
211	18781	18548	18597	18325	18017	18454
212	18958	18747	18802	18526	18217	18650
213	19127	18942	18996	18715	18411	18838
214	19305	19146	19195	18909	18611	19033
215	19473	19340	19387	19096	18802	19220
216	19646	19537	19591	19296	19001	19414
217	19817	19730	19784	19483	19191	19601
218	19993	19926	19990	19685	19392	19797
219	20160	20118	20185	19872	19586	19984
220	20332	20313	20390	20073	19788	20179
221	20498	20497	20585	20262	19982	20365
222	20669	20690	20787	20467	20180	20559
223	20837	20875	20980	20659	20376	20745
224	21004	21068	21184	20870	20579	20941
225	21164	21250	21379	21066	20773	21126
226	21332	21439	21581	21275	20981	21322
227	21495	21624	21771	21470	21177	21507
228	21662	21815	21969	21675	21380	21700
229	21822	21995	22158	21869	21578	21884
230	21987	22182	22356	22076	21784	22077
231	22148	22361	22544	22265	21983	22260
232	22316	22545	22737	22472	22185	22451
233	22473	22721	22921	22661	22383	22632
234	22637	22902	23110	22864	22586	22820
235	22798	23073	23291	23052	22786	23000
236	22962	23250		23253	22988	
237	23124	23419		23443	23184	
238	23283				23386	
239	23439					
240						
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	H	I	J	K	L	M
201	9517	9528	8829	9097	8311	9056
202	9649	9654	8950	9217	8446	9183
203	9767	9775	9074	9344	8573	9307
204	9897	9907	9193	9466	8698	9432
205	10021	10025	9320	9583	8814	9553
206	10158	10148	9446	9700	8937	9678
207	10283	10265	9576	9816	9062	9800
208	10409	10392	9692	9938	9191	9924
209	10529	10513	9814	10060	9312	10046
210	10659	10640	9931	10179	9434	10169
211	10782	10755	10058	10293	9547	10287
212	10918	10877	10178	10409	9676	10412
213	11036	10994	10303	10527	9796	10531
214	11161	11118	10416	10651	9918	10653
215	11280	11234	10537	10770	10031	10770
216	11411	11359	10654	10888	10150	10892
217	11537	11476	10781	11001	10265	11012
218	11667	11605	10899	11120	10390	11136
219	11784	11724	11023	11236	10506	11255
220	11914	11849	11137	11354	10626	11376
221	12038	11967	11263	11463	10736	11493
222	12173	12091	11380	11578	10856	11616
223	12297	12208	11505	11688	10972	11734
224	12426	12335	11623	11803	11093	11856
225	12544	12452	11743	11921	11206	11973
226	12673	12575	11859	12044	11326	12095
227	12791	12693	11983	12164	11440	12214
228	12922	12818	12094	12288	11557	12336
229	13043	12937	12217	12412	11672	12456
230	13167	13064	12328	12540	11800	12580
231	13288	13184	12447	12664	11920	12701
232	13420	13309	12566	12790	12047	12826
233	13545	13425	12696	12912	12167	12949
234	13683	13544	12816	13039	12295	13075
235	13808	13658	12944	13164	12420	13199
236	13944	13779	13063	13294	12545	13325
237	14072	13891	13193	13420	12666	13448
238	14207	14013	13315	13547	12792	13575
239	14336	14126	13446	13673	12916	13699
240	14475	14248	13563	13799	13043	13826
241	14598	14363	13691	13925	13163	13948
242	14735	14489	13810	14051	13287	14074
243	14865	14606	13941	14175	13405	14198
244	15002	14734	14064	14302	13529	14326
245	15128	14852	14192	14429	13648	14450
246	15264	14977	14313	14555	13773	14576
247	15388	15098	14441	14683	13894	14701
248	15525	15229	14558	14813	14018	14829
249	15650	15355	14688	14939	14137	14954
250	15782	15491	14809	15069	14262	15083

	N	O	P	Q	R	S
201	8124	7978	7796	7795	7668	7872
202	8221	8079	7859	7880	7696	7947
203	8319	8179	7972	7985	7756	8042
204	8407	8269	8079	8088	7852	8139
205	8498	8354	8168	8179	7967	8233
206	8580	8430	8256	8269	8059	8319
207	8669	8516	8340	8358	8151	8407
208	8755	8604	8423	8460	8239	8496
209	8858	8701	8506	8559	8338	8592
210	8962	8799	8605	8668	8436	8694
211	9077	8904	8705	8767	8546	8800
212	9192	9015	8811	8872	8649	8908
213	9319	9136	8916	8976	8754	9020
214	9440	9254	9025	9087	8859	9133
215	9571	9378	9138	9191	8969	9249
216	9693	9499	9259	9307	9073	9366
217	9822	9624	9378	9420	9189	9487
218	9948	9747	9500	9539	9302	9607
219	10079	9873	9622	9656	9423	9731
220	10202	9997	9744	9783	9541	9853
221	10332	10124	9868	9904	9664	9978
222	10455	10244	9994	10032	9783	10102
223	10588	10371	10118	10153	9908	10228
224	10713	10493	10242	10279	10027	10351
225	10846	10617	10364	10399	10148	10475
226	10971	10739	10487	10524	10264	10597
227	11102	10863	10608	10643	10389	10721
228	11226	10984	10734	10765	10509	10844
229	11358	11109	10857	10884	10631	10968
230	11484	11227	10979	11009	10748	11089
231	11614	11349	11100	11127	10874	11213
232	11737	11471	11224	11248	10994	11335
233	11866	11595	11348	11365	11119	11459
234	11992	11715	11471	11492	11239	11582
235	12124	11839	11591	11616	11363	11707
236	12249	11962	11712	11746	11485	11831
237	12383	12083	11835	11872	11614	11957
238	12510	12208	11960	12002	11733	12083
239	12643	12332	12080	12127	11859	12208
240	12773	12457	12208	12257	11980	12335
241	12906	12583	12333	12381	12108	12462
242	13030	12667	12466	12515	12231	12582
243	13163	12837	12592	12642	12359	12719
244	13292	12912	12722	12772	12482	12836
245	13424	13074	12851	12897	12609	12971
246	13552	13220	12982	13027	12730	13102
247	13686	13325	13110	13149	12856	13225
248	13815	13490	13243	13282	12978	13362
249	13952	13623	13371	13406	13099	13490
250	14083	13752	13501	13535	13219	13618

	T	U	V	W	X	Y
201	9660	9371	9618	9574	9065	9458
202	9739	9441	9692	9649	9145	9533
203	9828	9518	9774	9727	9228	9615
204	9913	9597	9853	9807	9302	9694
205	9997	9679	9936	9889	9383	9777
206	10076	9752	10014	9966	9460	9854
207	10163	9832	10098	10044	9544	9936
208	10245	9905	10178	10127	9619	10015
209	10338	9985	10265	10211	9697	10099
210	10423	10066	10346	10295	9772	10180
211	10514	10148	10431	10377	9855	10265
212	10603	10223	10509	10455	9933	10345
213	10701	10308	10605	10544	10015	10435
214	10790	10390	10690	10629	10090	10518
215	10889	10475	10781	10717	10176	10608
216	10975	10557	10864	10804	10262	10692
217	11072	10644	10963	10895	10350	10785
218	11163	10727	11054	10984	10433	10872
219	11263	10820	11153	11079	10523	10968
220	11354	10910	11251	11175	10613	11061
221	11453	11003	11361	11272	10709	11160
222	11543	11093	11464	11369	10799	11254
223	11644	11191	11575	11469	10895	11355
224	11739	11288	11684	11569	10983	11453
225	11842	11390	11801	11676	11082	11558
226	11941	11491	11914	11783	11175	11661
227	12050	11603	12032	11899	11274	11772
228	12157	11710	12142	12013	11368	11878
229	12275	11827	12261	12131	11470	11993
230	12387	11943	12375	12245	11574	12105
231	12509	12061	12499	12363	11684	12223
232	12627	12181	12617	12483	11789	12339
233	12752	12308	12745	12606	11904	12463
234	12873	12428	12865	12729	12013	12582
235	13000	12555	12995	12857	12131	12708
236	13119	12674	13120	12988	12248	12830
237	13245	12801	13257	13118	12369	12958
238	13367	12924	13387	13252	12488	13084
239	13495	13057	13525	13391	12618	13217
240	13618	13186	13658	13528	12743	13347
241	13750	13323	13798	13668	12877	13483
242	13877	13456	13932	13804	13009	13616
243	14014	13593	14070	13949	13146	13754
244	14144	13727	14205	14087	13281	13889
245	14283	13867	14345	14228	13421	14029
246	14416	14005	14478	14367	13553	14164
247	14555	14146	14622	14512	13694	14306
248	14692	14280	14755	14651	13828	14441
249	14836	14424	14899	14791	13970	14584
250	14970	14557	15032	14928	14106	14719

	Z	AA	AB	AC	AD	AE
201	7787	7426	7138	6965	7003	7264
202	7832	7469	7203	7036	7076	7323
203	7881	7507	7278	7115	7148	7386
204	7927	7549	7354	7189	7224	7449
205	7978	7590	7421	7267	7300	7511
206	8023	7636	7462	7339	7363	7565
207	8069	7678	7506	7400	7403	7611
208	8112	7726	7547	7440	7443	7654
209	8159	7770	7591	7480	7482	7696
210	8263	7818	7633	7517	7524	7751
211	8394	7864	7678	7559	7563	7812
212	8505	7916	7719	7598	7605	7869
213	8620	7962	7764	7644	7647	7927
214	8727	8012	7803	7688	7693	7985
215	8839	8057	7845	7738	7739	8044
216	8946	8114	7886	7787	7786	8104
217	9061	8225	7930	7837	7832	8177
218	9173	8358	7976	7881	7881	8254
219	9291	8473	8042	7926	7924	8331
220	9405	8589	8176	7973	7980	8425
221	9529	8696	8307	8027	8093	8530
222	9643	8812	8421	8102	8223	8640
223	9766	8921	8540	8241	8339	8761
224	9886	9035	8649	8359	8452	8876
225	10010	9143	8763	8472	8565	8991
226	10128	9261	8870	8584	8677	9104
227	10248	9377	8984	8694	8787	9218
228	10365	9501	9090	8802	8896	9331
229	10488	9622	9202	8914	9003	9446
230	10605	9746	9312	9022	9111	9559
231	10725	9868	9434	9133	9218	9676
232	10836	9996	9551	9242	9329	9791
233	10956	10120	9675	9358	9440	9910
234	11070	10247	9795	9471	9554	10027
235	11191	10369	9918	9592	9666	10147
236	11305	10497	10038	9706	9781	10265
237	11423	10621	10163	9828	9898	10387
238	11536	10747	10282	9950	10011	10505
239	11660	10867	10409	10077	10130	10629
240	11778	10996	10530	10198	10250	10750
241	11905	11120	10658	10321	10366	10874
242	12026	11250	10776	10439	10484	10995
243	12155	11376	10904	10563	10607	11121
244	12279	11501	11025	10683	10727	11243
245	12410	11623	11151	10809	10853	11369
246	12532	11749	11268	10929	10984	11492
247	12661	11873	11393	11051	11105	11617
248	12784	12000	11511	11174	11227	11739
249	12913	12119	11640	11301	11347	11864
250	13033	12245	11754	11425	11468	11985

	AF	AG	AH	AI	AJ	AK
201	7978	8117	8049	7821	7714	7936
202	8063	8197	8138	7930	7820	8030
203	8124	8266	8227	8031	7941	8118
204	8190	8325	8323	8126	8067	8206
205	8254	8389	8444	8228	8189	8301
206	8338	8473	8568	8342	8289	8402
207	8418	8578	8693	8469	8386	8509
208	8499	8692	8795	8596	8493	8615
209	8556	8796	8901	8704	8618	8715
210	8619	8893	8998	8805	8740	8811
211	8679	8992	9118	8905	8847	8908
212	8763	9111	9239	9014	8933	9012
213	8841	9236	9366	9126	9019	9118
214	8930	9365	9476	9225	9113	9222
215	9005	9483	9587	9312	9231	9324
216	9097	9599	9697	9407	9352	9430
217	9196	9714	9828	9525	9471	9547
218	9315	9843	9957	9657	9581	9671
219	9432	9979	10093	9797	9693	9799
220	9557	10112	10206	9941	9810	9925
221	9665	10233	10324	10070	9946	10048
222	9780	10351	10439	10193	10082	10169
223	9894	10470	10568	10318	10212	10292
224	10030	10602	10695	10456	10330	10423
225	10162	10736	10824	10597	10454	10555
226	10295	10869	10938	10732	10581	10683
227	10411	10989	11059	10859	10723	10808
228	10532	11111	11178	10988	10856	10933
229	10651	11234	11311	11117	10984	11059
230	10787	11365	11440	11256	11104	11190
231	10908	11498	11579	11394	11230	11322
232	11037	11634	11702	11535	11360	11454
233	11151	11760	11832	11665	11500	11582
234	11275	11889	11962	11793	11635	11711
235	11397	12020	12105	11922	11774	11844
236	11540	12163	12242	12060	11902	11981
237	11672	12307	12386	12204	12033	12120
238	11809	12450		12345	12170	12194
239	11930			12483	12316	12243
240	12059				12460	12260
241	12187					
242	12328					
243	12459					
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	AL	AM	AN	AO	AP	AQ
201	7747	7882	7660	7407	7332	7606
202	7883	7979	7779	7458	7381	7696
203	7989	8073	7887	7504	7421	7775
204	8091	8160	7992	7546	7461	7850
205	8192	8271	8108	7583	7509	7933
206	8311	8383	8225	7625	7562	8021
207	8419	8496	8334	7697	7625	8114
208	8527	8590	8431	7849	7768	8233
209	8620	8682	8520	7980	7896	8340
210	8715	8768	8612	8090	8004	8438
211	8808	8874	8711	8195	8114	8540
212	8915	8978	8817	8310	8236	8651
213	9021	9092	8921	8433	8357	8765
214	9136	9190	9018	8561	8471	8875
215	9238	9291	9117	8674	8567	8977
216	9336	9384	9217	8768	8661	9073
217	9431	9491	9328	8862	8761	9175
218	9539	9606	9448	8971	8880	9289
219	9650	9736	9577	9089	9004	9411
220	9765	9856	9694	9218	9135	9534
221	9874	9973	9806	9346	9251	9650
222	9979	10080	9914	9466	9357	9759
223	10082	10200	10031	9579	9463	9871
224	10200	10313	10150	9697	9581	9988
225	10315	10441	10273	9822	9703	10111
226	10441	10560	10398	9957	9835	10238
227	10555	10684	10518	10094	9962	10363
228	10671	10795	10636	10227	10083	10482
229	10778	10915	10753	10350	10200	10599
230	10894	11028	10879	10476	10321	10720
231	11001	11162	11014	10600	10450	10845
232	11126	11286	11153	10727	10585	10975
233	11247	11422	11292	10860	10721	11108
234	11373	11544	11425	10991	10855	11238
235	11484	11675	11557	11121	10982	11364
236	11600	11799	11689	11246	11111	11489
237	11714	11939	11826	11372	11242	11619
238	11840	12066	11964	11502	11379	11750
239	11956	12206	12096	11635	11510	11881
240	12078	12332	12228	11767	11642	12009
241	12200	12471	12359	11893	11765	12138
242	12326		12490	12017	11892	12181
243	12447			12138	12018	12201
244				12260	12148	12204
245				12386	12276	12331
246					12409	12409
247						
248						
249						
250						

	AR	AS	AT	AU	AV	AW
201	7297	7293	7056	7087	6842	7115
202	7333	7337	7105	7139	6925	7168
203	7365	7378	7151	7177	6999	7214
204	7404	7409	7193	7217	7055	7256
205	7449	7447	7226	7252	7103	7295
206	7495	7482	7265	7298	7145	7337
207	7537	7528	7304	7344	7183	7379
208	7577	7570	7352	7394	7228	7424
209	7616	7614	7396	7434	7271	7466
210	7661	7650	7437	7475	7319	7508
211	7741	7696	7470	7515	7356	7556
212	7880	7791	7508	7564	7393	7627
213	7989	7928	7551	7611	7430	7702
214	8085	8039	7613	7658	7475	7774
215	8176	8136	7730	7708	7519	7854
216	8283	8223	7835	7815	7570	7945
217	8377	8320	7918	7918	7612	8029
218	8460	8422	8017	8030	7654	8117
219	8541	8524	8119	8141	7692	8203
220	8628	8611	8222	8247	7766	8295
221	8718	8695	8310	8335	7897	8391
222	8830	8784	8392	8418	8015	8488
223	8938	8890	8475	8505	8113	8584
224	9045	9001	8577	8618	8208	8690
225	9137	9120	8689	8731	8303	8796
226	9232	9225	8813	8844	8412	8905
227	9330	9327	8924	8947	8518	9009
228	9441	9429	9030	9054	8622	9115
229	9549	9542	9130	9167	8713	9220
230	9658	9661	9244	9295	8810	9334
231	9755	9784	9362	9413	8915	9446
232	9860	9896	9484	9536	9034	9562
233	9965	10004	9596	9644	9153	9672
234	10085	10112	9706	9760	9275	9788
235	10200	10235	9809	9878	9384	9901
236	10318	10361	9928	10008	9494	10022
237	10427	10490	10046	10134	9605	10140
238	10536	10609	10174	10258	9730	10261
239	10649	10727	10288	10370	9853	10377
240	10774	10841	10404	10490	9979	10498
241	10895	10966	10513	10614	10093	10616
242	11016	11095	10638	10749	10214	10742
243	11123	11228	10760	10878	10331	10864
244	11238	11348	10892	11007	10464	10990
245	11355	11468	11008	11123	10595	11110
246	11482	11584	11127	11250	10725	11234
247	11601	11711	11243	11376	10844	11355
248	11725	11837	11372	11514	10966	11483
249	11840	11966	11500	11645	11090	11608
250	11962	12086	11634	11773	11222	11735

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251	15906	15614	14940	15199	14386	15209
252	16037	15749	15064	15330	14515	15339
253	16155	15875	15201	15459	14632	15464
254	16290	16009	15324	15588	14761	15594
255	16414	16132	15462	15714	14881	15721
256	16550	16266	15586	15848	15009	15852
257	16676	16390	15722	15975	15129	15978
258	16807	16528	15847	16109	15258	16110
259	16933	16653	15984	16234	15383	16237
260	17074	16785	16108	16362	15512	16368
261	17200	16910	16244	16490	15637	16496
262	17340	17046	16368	16619	15771	16629
263	17468	17171	16502	16749	15896	16757
264	17606	17308	16627	16881	16027	16890
265	17736	17434	16760	17005	16156	17018
266	17876	17568	16886	17139	16293	17152
267	18008	17697	17020	17268	16418	17282
268	18154	17837	17142	17402	16550	17417
269	18286	17971	17279	17532	16672	17548
270	18428	18112	17406	17665	16801	17682
271	18561	18245	17549	17797	16929	17816
272	18701	18388	17679	17932	17061	17952
273	18833	18521	17819	18063	17182	18084
274	18972	18664	17946	18200	17317	18220
275	19102	18800	18088	18334	17444	18354
276	19242	18945	18217	18474	17577	18491
277	19373	19086	18358	18612	17707	18627
278	19511	19236	18490	18758	17841	18767
279	19638	19377	18632	18901	17968	18903
280	19781	19527	18771	19047	18102	19046
281	19911	19671	18917	19188	18228	19183
282	20053	19828	19054	19334	18362	19326
283	20183	19973	19202	19480	18491	19466
284	20327	20130	19341	19632	18632	19612
285	20463	20279	19489	19778	18765	19755
286	20606	20433	19633	19930	18905	19901
287	20741	20580	19790	20082	19038	20046
288	20886	20736	19934	20243	19185	20197
289	21019	20883	20096	20398	19325	20344
290	21161	21040	20244	20558	19474	20495
291	21295	21187	20407	20714	19622	20645
292	21443	21348	20557	20877	19787	20802
293	21578	21494	20721	21036	19940	20954
294	21726	21651	20876	21203	20107	21113
295	21870	21795	21043	21364	20262	21267
296	22032	21953	21197	21533	20428	21429
297	22184	22105	21371	21696	20586	21588
298	22344	22265	21528	21868	20753	21752
299	22495	22419	21690	22029	20915	21910
300	22661	22585	21844	22200	21087	22075

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251	14218	13882	13628	13657	13343	13746
252	14348	14012	13756	13784	13465	13873
253	14485	14142	13879	13906	13590	14000
254	14615	14272	14009	14035	13714	14129
255	14753	14402	14133	14155	13840	14257
256	14883	14533	14260	14284	13965	14385
257	15019	14660	14387	14409	14092	14513
258	15149	14787	14515	14541	14213	14641
259	15285	14914	14640	14662	14339	14768
260	15413	15041	14771	14791	14461	14895
261	15548	15169	14894	14916	14589	15023
262	15675	15295	15021	15051	14714	15151
263	15807	15421	15145	15178	14847	15280
264	15931	15546	15271	15314	14972	15407
265	16063	15633	15397	15442	15100	15527
266	16193	15801	15524	15577	15227	15664
267	16330	15876	15657	15702	15357	15784
268	16461	16017	15794	15836	15483	15918
269	16597	16186	15924	15962	15612	16056
270	16730	16275	16055	16096	15738	16179
271	16866	16444	16185	16220	15866	16316
272	16995	16573	16317	16352	15994	16446
273	17131	16701	16449	16484	16125	16578
274	17260	16830	16580	16620	16252	16708
275	17400	16965	16711	16751	16386	16843
276	17531	17098	16842	16888	16516	16975
277	17667	17230	16975	17019	16646	17107
278	17798	17363	17108	17156	16777	17240
279	17936	17497	17244	17287	16912	17375
280	18072	17632	17379	17425	17045	17511
281	18210	17767	17516	17557	17178	17646
282	18341	17900	17653	17697	17311	17780
283	18475	18037	17789	17832	17455	17918
284	18604	18177	17927	17979	17586	18055
285	18737	18326	18066	18115	17724	18194
286	18869	18472	18202	18260	17859	18332
287	19005	18615	18347	18398	17998	18473
288	19137	18758	18493	18547	18137	18614
289	19275	18902	18635	18686	18284	18756
290	19409	19043	18782	18831	18424	18898
291	19552	19184	18923	18967	18568	19039
292	19686	19330	19071	19118	18712	19183
293	19825	19476	19213	19263	18859	19327
294	19956	19625	19359	19413	19004	19471
295	20097	19790	19511	19561	19155	19623
296	20230	19955	19664	19718	19310	19775
297	20371	20118	19818	19873	19470	19930
298	20509	20281	19974	20041	19633	20088
299	20650	20445	20133	20203	19798	20246
300	20792	20613	20292	20376	19961	20407

	T	U	V	W	X	Y
251	15111	14700	15175	15067	14245	14860
252	15246	14835	15307	15205	14381	14995
253	15385	14975	15450	15344	14520	15135
254	15520	15107	15581	15477	14652	15267
255	15660	15248	15723	15614	14792	15407
256	15792	15380	15856	15748	14927	15541
257	15932	15521	16000	15880	15064	15679
258	16060	15654	16133	16014	15202	15813
259	16196	15797	16278	16149	15343	15953
260	16327	15928	16415	16280	15479	16086
261	16466	16068	16562	16417	15619	16226
262	16595	16202	16694	16548	15751	16358
263	16739	16343	16840	16686	15891	16500
264	16869	16476	16977	16822	16027	16634
265	17013	16618	17123	16962	16166	16776
266	17148	16752	17258	17097	16302	16911
267	17293	16892	17405	17240	16444	17055
268	17432	17025	17543	17377	16581	17192
269	17580	17167	17693	17521	16725	17337
270	17716	17305	17830	17659	16862	17474
271	17862	17451	17983	17801	17008	17621
272	18003	17587	18127	17944	17147	17762
273	18153	17731	18278	18090	17293	17909
274	18294	17869	18418	18230	17432	18049
275	18440	18016	18570	18376	17577	18196
276	18581	18154	18714	18518	17717	18337
277	18732	18303	18869	18667	17865	18487
278	18874	18447	19012	18813	18010	18631
279	19026	18601	19165	18959	18158	18782
280	19168	18740	19313	19100	18303	18925
281	19313	18889	19469	19249	18450	19074
282	19454	19031	19614	19391	18596	19217
283	19603	19181	19773	19545	18745	19369
284	19742	19322	19921	19689	18887	19512
285	19892	19477	20079	19840	19034	19664
286	20036	19622	20227	19988	19176	19810
287	20184	19777	20385	20141	19326	19963
288	20330	19918	20535	20286	19477	20109
289	20484	20076	20691	20436	19629	20263
290	20628	20226	20840	20584	19776	20411
291	20782	20380	20999	20736	19922	20564
292	20930	20525	21150	20883	20069	20711
293	21084	20684	21309	21037	20218	20866
294	21226	20833	21460	21186	20364	21014
295	21379	20989	21624	21346	20516	21171
296	21523	21137	21782	21500	20660	21320
297	21675	21293	21952	21658	20808	21477
298	21818	21441	22108	21812	20954	21627
299	21973	21603	22276	21972	21110	21787
300	22119	21751	22438	22131	21268	21941

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251	13162	12368	11880	11548	11588	12109
252	13282	12496	12003	11668	11707	12231
253	13414	12613	12131	11787	11827	12354
254	13534	12738	12249	11909	11947	12475
255	13671	12857	12375	12033	12072	12602
256	13793	12984	12490	12153	12200	12724
257	13924	13101	12614	12275	12321	12847
258	14043	13223	12730	12398	12450	12969
259	14174	13337	12856	12525	12588	13096
260	14290	13460	12973	12649	12728	13220
261	14418	13577	13096	12782	12867	13348
262	14534	13703	13217	12920	13009	13477
263	14660	13817	13351	13062	13151	13608
264	14783	13946	13472	13202	13290	13739
265	14911	14071	13602	13348	13432	13873
266	15031	14198	13734	13488	13572	14005
267	15155	14315	13879	13631	13713	14139
268	15277	14451	14013	13770	13852	14273
269	15412	14583	14156	13912	13992	14411
270	15545	14725	14288	14050	14132	14548
271	15683	14860	14429	14194	14270	14687
272	15813	15001	14562	14329	14409	14823
273	15956	15134	14706	14470	14547	14963
274	16088	15277	14841	14608	14686	15100
275	16226	15410	14983	14749	14826	15239
276	16357	15548	15118	14885	14965	15375
277	16493	15683	15259	15021	15102	15512
278	16622	15822	15395	15158	15246	15649
279	16761	15954	15539	15299	15392	15789
280	16891	16094	15674	15438	15534	15926
281	17034	16230	15814	15578	15681	16067
282	17165	16372	15952	15719	15827	16207
283	17306	16506	16094	15863	15977	16349
284	17441	16648	16232	16007	16123	16490
285	17583	16788	16375	16152	16270	16634
286	17718	16931	16515	16297	16414	16775
287	17861	17071	16662	16443	16562	16920
288	17996	17218	16803	16588	16706	17062
289	18137	17362	16949	16736	16853	17207
290	18274	17512	17090	16879	17000	17351
291	18419	17656	17241	17025	17147	17498
292	18559	17809	17382	17170	17293	17643
293	18706	17955	17534	17316	17443	17791
294	18847	18107	17676	17456	17594	17936
295	18998	18255	17825	17603	17743	18085
296	19141	18412	17967	17751	17892	18233
297	19286	18565	18115	17899	18043	18382
298	19425	18720	18259	18048	18193	18529
299	19572	18870	18412	18199	18342	18679
300	19714	19028	18556	18349	18490	18827

	AR	AS	AT	AU	AV	AW
251	12080	12204	11754	11893	11350	11856
252	12206	12316	11880	12025	11485	11982
253	12324	12434	11999	12155	11606	12104
254	12449		12128	12293	11733	12151
255			12248	12418	11856	12174
256			12377		11994	12186
257			12495		12123	12309
258					12255	12255
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	H	I	J	K	L	M
301	22809	22736	22014	22371	21246	22235
302	22974	22897	22171	22554	21421	22403
303	23123	23051	22351	22726	21586	22567
304	23288	23214	22517	22904	21766	22738
305	23439	23367	22699	23073	21934	22902
306			22869	23253	22112	
307			23048	23421	22279	
308			23213		22462	
309			23394		22633	
310					22819	
311					22987	
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	N	O	P	Q	R	S
301	20932	20778	20451	20541	20126	20566
302	21069	20942	20615	20718	20293	20727
303	21209	21108	20778	20890	20452	20887
304	21342	21275	20941	21069	20632	21052
305	21483	21438	21103	21242	20798	21213
306	21620	21604	21272	21425	20965	21377
307	21760	21767	21437	21599	21143	21541
308	21898	21930	21599	21781	21329	21707
309	22039	22092	21763	21952	21511	21871
310	22178	22250	21930	22132	21688	22036
311	22322	22411	22100	22301	21869	22201
312	22459	22572	22268	22478	22049	22365
313	22604	22727	22434	22647	22230	22528
314	22745	22888	22599	22820	22411	22693
315	22891	23049	22768	22986	22589	22857
316	23032	23170	22933	23157	22766	23012
317	23183	23326	23098	23320	22940	23173
318	23336		23262		23113	
319			23428		23287	
320					23457	
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	T	U	V	W	X	Y
301	22271	21910	22608	22296	21424	22102
302	22420	22064	22771	22457	21579	22258
303	22574	22229	22944	22625	21736	22422
304	22723	22387	23111	22790	21894	22581
305	22883	22553	23287	22961	22055	22748
306	23034	22703	23454	23126	22216	22907
307	23198	22871		23297	22382	
308	23353	23034			22547	
309		23209			22719	
310		23372			22891	
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312					23234	
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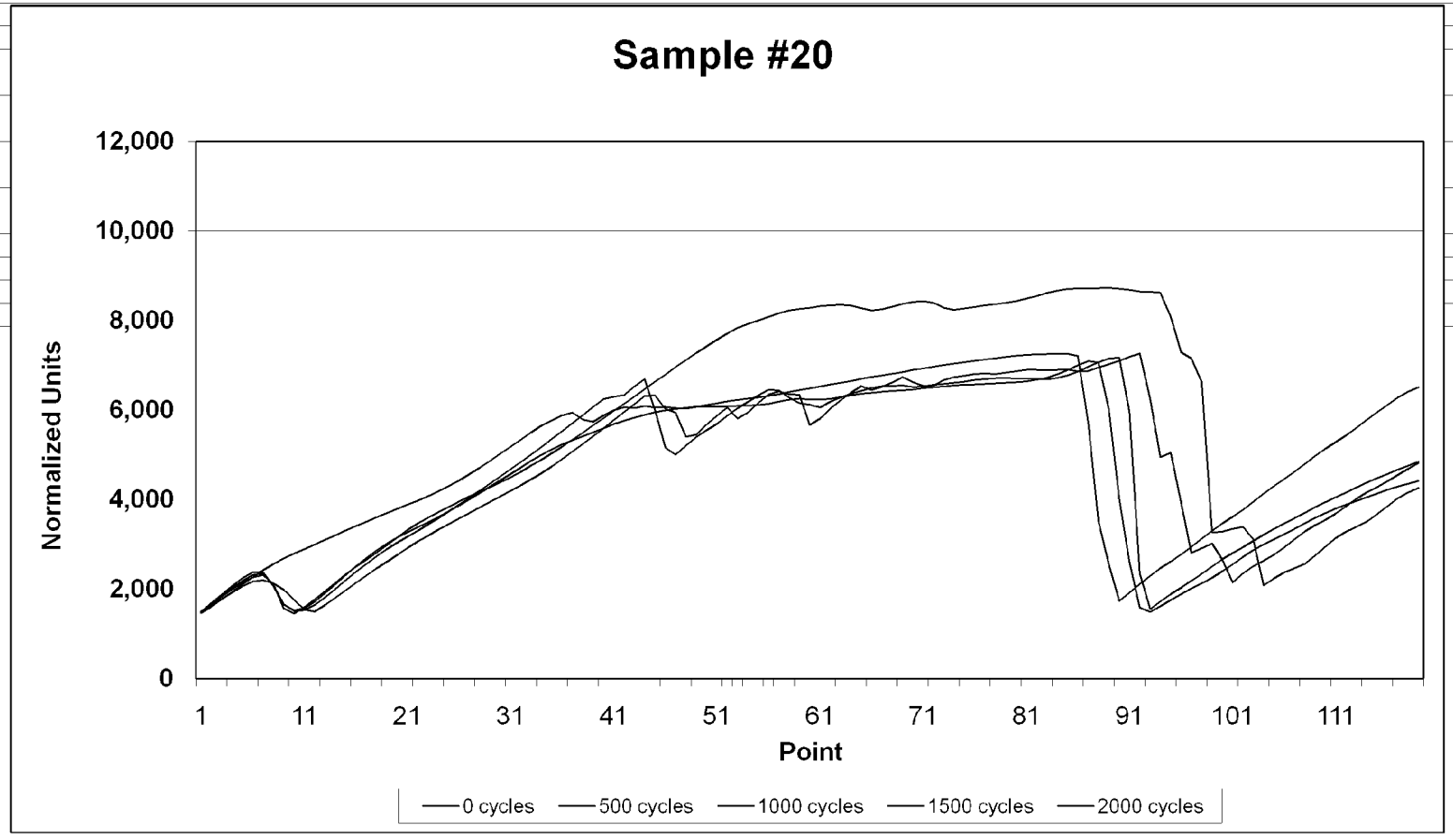
	Z	AA	AB	AC	AD	AE
301	19864	19183	18709	18502	18643	18980
302	20004	19344	18860	18652	18794	19131
303	20154	19502	19015	18808	18947	19285
304	20297	19664	19163	18960	19100	19437
305	20446	19819	19320	19113	19255	19591
306	20589	19981	19477	19265	19414	19745
307	20741	20136	19639	19422	19570	19902
308	20883	20299	19793	19578	19729	20056
309	21036	20457	19955	19737	19890	20215
310	21177	20621	20110	19892	20050	20370
311	21333	20777	20273	20054	20215	20530
312	21477	20940	20430	20214	20379	20688
313	21630	21098	20599	20375	20549	20850
314	21774	21258	20755	20535	20712	21007
315	21925	21416	20921	20697	20882	21168
316	22069	21578	21083	20862	21049	21328
317	22223	21736	21252	21026	21223	21492
318	22364	21903	21418	21190	21396	21654
319	22520	22062	21587	21359	21570	21820
320	22666	22228	21747	21528	21741	21982
321	22819	22385	21920	21696	21908	22146
322	22962	22548	22080	21865	22076	22306
323	23117	22702	22246	22034	22252	22470
324	23264	22863	22408	22199	22428	22632
325	23417	23016	22576	22369	22605	22797
326		23177	22739	22537	22775	
327		23331	22909	22703	22950	
328			23072	22872	23122	
329			23243	23038	23294	
330			23403	23206		
331				23374		

	A
1	File:
2	Make:
3	Model:
4	Step Size [inch]:
5	Deflection [inch/lb]:



	B	C	D	E	F	G
1	770-20-0	7261				
2	770					
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4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1433	1516	1532	1576	1408	1493
8	1622	1711	1727	1778	1605	1689
9	1810	1905	1911	1978	1807	1882
10	1999	2093	2094	2166	2001	2071
11	2176	2266	2258	2340	2186	2245
12	2338	2370	2378	2457	2336	2376
13	2416	2226	2352	2467	2441	2380
14	2135	1598	1975	2161	2432	2060
15	1539	1480	1526	1619	2117	1656
16	1429	1641	1438	1484	1636	1526
17	1488	1844	1483	1549	1504	1574
18	1644	2047	1621	1700	1562	1715
19	1844	2251	1805	1892	1718	1902
20	2064	2453	2006	2089	1908	2104
21	2271	2649	2205	2296	2114	2307
22	2467	2832	2415	2494	2318	2505
23	2654	2985	2608	2686	2523	2691
24	2829	3114	2795	2868	2710	2863
25	2962	3235	2951	3047	2894	3018
26	3083	3339	3092	3185	3053	3150
27	3188	3440	3216	3307	3189	3268
28	3288	3537	3337	3419	3315	3379
29	3386	3639	3447	3544	3441	3491
30	3499	3745	3557	3671	3558	3606
31	3627	3871	3671	3814	3678	3732
32	3772	4013	3798	3951	3803	3867
33	3920	4157	3921	4088	3937	4005
34	4075	4301	4057	4215	4072	4144
35	4222	4448	4196	4351	4210	4285
36	4371	4590	4340	4490	4343	4427
37	4519	4734	4481	4637	4489	4572
38	4667	4877	4628	4778	4635	4717
39	4812	5024	4768	4931	4789	4865
40	4949	5128	4914	5073	4937	5000
41	5040	5214	5055	5206	5090	5121
42	5126	5309	5178	5298	5225	5227
43	5209	5411	5264	5398	5324	5321
44	5302	5506	5351	5494	5393	5409
45	5385	5606	5437	5594	5476	5500
46	5466	5690	5534	5675	5572	5587
47	5545	5780	5622	5780	5671	5680
48	5604	5845	5720	5872	5750	5758
49	5650	5897	5802	5968	5832	5830
50	5705	5924	5891	6042	5901	5893

	H	I	J	K	L	M
1	770-20-500	8724				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1559	1507	1425	1443	1568	1500
8	1719	1661	1596	1618	1743	1667
9	1877	1820	1760	1783	1908	1830
10	2031	1979	1921	1947	2070	1990
11	2177	2135	2077	2107	2216	2142
12	2280	2254	2200	2249	2339	2264
13	2296	2326	2224	2343	2391	2316
14	1981	2136	1974	2324	2158	2115
15	1460	1546	1485	1864	1502	1571
16	1426	1402	1472	1478	1480	1452
17	1571	1533	1635	1633	1622	1599
18	1740	1694	1813	1796	1786	1766
19	1923	1869	1996	1984	1963	1947
20	2112	2051	2178	2180	2159	2136
21	2304	2246	2354	2371	2348	2325
22	2472	2423	2511	2537	2527	2494
23	2624	2592	2675	2693	2680	2653
24	2778	2754	2846	2846	2832	2811
25	2934	2930	3027	3018	2994	2981
26	3079	3106	3204	3195	3171	3151
27	3204	3293	3369	3374	3343	3317
28	3309	3470	3508	3531	3502	3464
29	3411	3639	3624	3666	3626	3593
30	3512	3802	3732	3781	3741	3714
31	3612	3971	3842	3900	3853	3836
32	3704	4141	3945	4013	3965	3954
33	3786	4313	4046	4125	4067	4067
34	3863	4472	4138	4220	4165	4172
35	3948	4626	4238	4306	4254	4274
36	4045	4770	4348	4390	4343	4379
37	4169	4918	4473	4487	4440	4497
38	4305	5065	4607	4588	4549	4623
39	4444	5208	4745	4710	4671	4756
40	4576	5348	4883	4845	4808	4892
41	4717	5502	5023	4994	4942	5036
42	4856	5651	5170	5140	5090	5181
43	5006	5812	5321	5304	5242	5337
44	5163	5961	5473	5469	5404	5494
45	5329	6114	5626	5643	5571	5657
46	5492	6254	5779	5811	5744	5816
47	5657	6401	5934	5984	5910	5977
48	5821	6541	6088	6152	6080	6136
49	5994	6689	6244	6331	6248	6301
50	6162	6836	6402	6499	6422	6464

	N	O	P	Q	R	S
1	770-20-1000	7260				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1538	1479	1508	1446	1423	1479
8	1693	1637	1645	1578	1587	1628
9	1846	1787	1785	1721	1752	1778
10	2003	1933	1922	1861	1912	1926
11	2150	2061	2051	1991	2059	2062
12	2289	2147	2160	2069	2170	2167
13	2403	2147	2232	2040	2182	2201
14	2473	2027	2193	1921	2024	2128
15	2395	1927	1937	1858	1814	1986
16	1942	1914	1487	1848	1620	1762
17	1445	1704	1507	1619	1414	1538
18	1406	1495	1650	1448	1495	1499
19	1478	1667	1796	1606	1662	1642
20	1563	1849	1948	1801	1858	1804
21	1654	2035	2104	1993	2056	1968
22	1768	2213	2257	2183	2255	2135
23	1889	2393	2403	2364	2450	2300
24	2018	2566	2527	2532	2634	2455
25	2164	2738	2640	2681	2816	2608
26	2324	2904	2756	2827	2998	2762
27	2489	3056	2882	2970	3174	2914
28	2654	3185	3004	3110	3343	3059
29	2795	3315	3126	3247	3493	3195
30	2921	3447	3242	3380	3627	3323
31	3042	3581	3362	3509	3762	3451
32	3165	3711	3474	3635	3892	3575
33	3286	3841	3583	3757	4025	3698
34	3409	3982	3685	3875	4154	3821
35	3532	4125	3787	3986	4295	3945
36	3652	4270	3884	4108	4425	4068
37	3769	4413	3992	4232	4561	4193
38	3878	4555	4099	4352	4698	4316
39	3983	4705	4230	4482	4849	4450
40	4093	4859	4365	4618	5000	4587
41	4210	5031	4512	4769	5171	4739
42	4334	5208	4670	4948	5346	4901
43	4461	5385	4844	5130	5532	5070
44	4594	5565	5014	5313	5718	5241
45	4735	5743	5193	5492	5908	5414
46	4892	5922	5368	5677	6091	5590
47	5053	6104	5552	5864	6280	5771
48	5226	6287	5729	6045	6464	5950
49	5400	6465	5910	6224	6651	6130
50	5577	6643	6088	6408	6832	6310

	T	U	V	W	X	Y
1	770-20-1500	7170				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1454	1559	1489	1408	1461	1474
8	1654	1749	1689	1602	1645	1668
9	1840	1940	1876	1792	1831	1856
10	2025	2110	2048	1977	2003	2033
11	2176	2257	2203	2142	2159	2187
12	2291	2363	2335	2297	2289	2315
13	2306	2336	2355	2417	2327	2348
14	2020	1919	2045	2367	2082	2087
15	1572	1573	1657	1895	1617	1663
16	1427	1525	1549	1556	1484	1508
17	1454	1589	1581	1525	1500	1530
18	1595	1729	1694	1604	1594	1643
19	1783	1916	1858	1758	1751	1813
20	1997	2101	2046	1940	1924	2002
21	2206	2294	2228	2125	2101	2191
22	2399	2487	2424	2309	2277	2379
23	2544	2680	2611	2503	2461	2560
24	2666	2867	2786	2689	2637	2729
25	2789	3053	2920	2871	2821	2891
26	2917	3202	3054	3032	2990	3039
27	3039	3334	3183	3168	3127	3170
28	3165	3467	3320	3308	3254	3303
29	3290	3610	3465	3455	3394	3443
30	3417	3756	3616	3601	3538	3586
31	3543	3912	3764	3751	3704	3735
32	3674	4064	3918	3903	3869	3886
33	3808	4222	4070	4060	4038	4040
34	3955	4376	4227	4215	4203	4195
35	4100	4535	4384	4375	4372	4353
36	4254	4690	4544	4535	4535	4512
37	4411	4859	4702	4698	4704	4675
38	4577	5026	4865	4858	4864	4838
39	4744	5195	5030	5025	5032	5005
40	4916	5367	5206	5191	5202	5176
41	5082	5545	5382	5369	5385	5353
42	5246	5718	5563	5544	5563	5527
43	5408	5898	5742	5726	5752	5705
44	5577	6078	5926	5908	5934	5885
45	5739	6264	6106	6095	6128	6066
46	5899	6441	6290	6276	6315	6244
47	5405	6627	6468	6463	6506	6294
48	4867	6806	6648	6647	6690	6332
49	5108	6990	6820	6835	6884	6527
50	5301	7162	6904	7016	7062	6689

	Z	AA	AB	AC	AD	AE
1	770-20-2000	7092				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1402	1486	1517	1404	1500	1462
8	1535	1650	1684	1520	1660	1610
9	1708	1815	1850	1682	1820	1775
10	1875	1976	2010	1843	1981	1937
11	2040	2137	2176	2009	2143	2101
12	2207	2297	2336	2165	2311	2263
13	2370	2456	2486	2307	2477	2419
14	2536	2587	2612	2428	2635	2560
15	2687	2696	2723	2535	2765	2681
16	2800	2797	2823	2632	2888	2788
17	2898	2902	2922	2724	3008	2891
18	3008	3005	3020	2811	3129	2995
19	3118	3111	3123	2897	3249	3100
20	3233	3205	3226	2973	3370	3201
21	3349	3303	3334	3050	3486	3304
22	3469	3398	3432	3126	3598	3405
23	3580	3500	3526	3211	3703	3504
24	3696	3596	3611	3294	3811	3602
25	3802	3697	3692	3382	3916	3698
26	3907	3792	3764	3467	4022	3790
27	4014	3887	3841	3549	4121	3882
28	4121	3983	3921	3633	4219	3975
29	4233	4089	4011	3726	4313	4074
30	4358	4200	4108	3816	4419	4180
31	4494	4338	4228	3905	4540	4301
32	4636	4479	4351	3998	4671	4427
33	4778	4630	4496	4111	4807	4564
34	4930	4787	4644	4236	4953	4710
35	5079	4954	4802	4382	5103	4864
36	5234	5115	4953	4533	5264	5020
37	5389	5278	5110	4693	5427	5179
38	5552	5437	5260	4845	5595	5338
39	5711	5603	5415	5004	5759	5498
40	5872	5761	5558	5154	5923	5654
41	6025	5921	5482	5315	6079	5764
42	6177	6039	5472	5468	6241	5879
43	6264	5810	5602	5623	6399	5940
44	5610	5973	5666	5489	6188	5785
45	5799	6141	5734	5415	5584	5735
46	5960	6227	5793	5599	5823	5880
47	6085	6268	5860	5730	6009	5990
48	6198	6212	5916	5804	6162	6058
49	6281	5811	5938	5884	6276	6038
50	6257	5954	5918	5933	6361	6085

	B	C	D	E	F	G
51	5763	5966	5942	6096	5961	5946
52	5829	6008	5977	6133	6013	5992
53	5857	6045	6002	6172	6036	6022
54	5872	6086	6047	6191	6047	6049
55	5891	6133	6065	6230	6054	6075
56	5918	6179	6104	6274	6085	6112
57	5953	6222	6133	6313	6133	6151
58	5992	6264	6176	6353	6176	6192
59	6016	6287	6200	6399	6220	6224
60	6070	6310	6231	6429	6224	6253
61	6119	6343	6266	6435	6235	6280
62	6164	6380	6283	6439	6278	6309
63	6219	6414	6320	6480	6324	6351
64	6281	6423	6375	6531	6380	6398
65	6322	6468	6415	6578	6419	6440
66	6381	6532	6439	6599	6446	6479
67	6421	6601	6464	6632	6504	6524
68	6460	6663	6490	6675	6556	6569
69	6498	6710	6526	6700	6594	6606
70	6541	6747	6588	6733	6620	6646
71	6586	6803	6649	6783	6653	6695
72	6623	6837	6706	6819	6695	6736
73	6656	6860	6746	6863	6729	6771
74	6705	6898	6792	6884	6750	6806
75	6751	6927	6837	6922	6788	6845
76	6799	6972	6887	6986	6836	6896
77	6824	7020	6933	7007	6854	6928
78	6845	7052	6977	7049	6894	6963
79	6874	7082	7023	7077	6949	7001
80	6924	7124	7062	7083	6968	7032
81	6971	7157	7098	7108	6989	7065
82	7019	7188	7136	7135	6996	7095
83	7055	7239	7181	7154	7006	7127
84	7106	7283	7199	7162	7020	7154
85	7130	7328	7242	7184	7053	7187
86	7156	7338	7267	7217	7076	7211
87	7184	7340	7297	7247	7089	7231
88	7203	7363	7317	7239	7095	7243
89	7251	7379	7300	7221	7099	7250
90	7310	7400	7293	7237	7065	7261
91	7324	7413	7309	7231	7009	7257
92	7341	7351	7302	7140	6894	7206
93	7362	4821	7233	4894	4191	5700
94	7307	1546	5721	1544	1459	3515
95	6243	1724	1507	1683	1605	2552
96	1484	1890	1641	1863	1785	1733
97	1657	2091	1802	2051	1981	1916
98	1856	2296	1997	2243	2172	2113
99	2080	2497	2202	2389	2319	2297
100	2311	2663	2372	2522	2449	2463

	H	I	J	K	L	M
51	6331	6987	6565	6681	6591	6631
52	6490	7133	6723	6851	6763	6792
53	6644	7286	6888	7029	6932	6956
54	6778	7437	7050	7201	7108	7115
55	6912	7600	7196	7374	7273	7271
56	7028	7755	7327	7542	7447	7420
57	7131	7919	7453	7717	7621	7568
58	7214	8079	7572	7880	7790	7707
59	7258	8244	7681	8039	7950	7834
60	7178	8399	7768	8160	8102	7921
61	7107	8555	7837	8246	8224	7994
62	7156	8688	7907	8301	8334	8077
63	7232	8816	7988	8355	8412	8161
64	7262	8928	8053	8388	8465	8219
65	7208	9042	8121	8417	8478	8253
66	7087	9149	8193	8462	8506	8279
67	6996	9272	8248	8515	8544	8315
68	6932	9384	8244	8541	8589	8338
69	6924	9490	8163	8541	8614	8346
70	6985	9575	8074	8423	8598	8331
71	7052	9639	8053	8122	8482	8270
72	7024	9670	8099	8107	8217	8223
73	6961	9729	8174	8207	8155	8245
74	6933	9794	8244	8311	8237	8304
75	6952	9851	8291	8421	8320	8367
76	6960	9900	8275	8511	8410	8411
77	6974	9935	8216	8569	8452	8429
78	6962	9854	8185	8549	8401	8390
79	6936	9630	8210	8366	8256	8280
80	6931	9572	8255	8165	8246	8234
81	6976	9636	8259	8151	8300	8264
82	7029	9694	8245	8146	8380	8299
83	7086	9750	8252	8144	8436	8334
84	7131	9756	8274	8150	8487	8360
85	7188	9702	8332	8210	8521	8391
86	7232	9646	8411	8297	8551	8427
87	7264	9676	8496	8394	8586	8483
88	7295	9733	8580	8480	8630	8544
89	7336	9819	8654	8566	8675	8610
90	7349	9912	8704	8623	8727	8663
91	7348	10018	8729	8646	8767	8702
92	7353	10126	8674	8628	8795	8715
93	7375	10257	8595	8577	8761	8713
94	7380	10381	8590	8542	8687	8716
95	7378	10504	8598	8509	8631	8724
96	7368	10593	8594	8442	8538	8707
97	7342	10643	8596	8392	8424	8679
98	7244	10659	8568	8365	8385	8644
99	7186	10708	8548	8363	8376	8636
100	7096	10672	8562	8358	8392	8616

	N	O	P	Q	R	S
51	5756	5976	6268	6590	7014	6321
52	5938	4784	6445	6771	6184	6024
53	6115	5046	6625	6940	4960	5937
54	6296	5271	5204	5011	5221	5401
55	6470	5468	4857	4999	5455	5450
56	6640	5657	5116	5262	5661	5667
57	6804	5840	5337	5485	5878	5869
58	6958	6034	5516	5675	6084	6053
59	4925	6234	5712	5872	6312	5811
60	4738	6427	5919	6090	6536	5942
61	4976	6599	6125	6303	6752	6151
62	5208	6758	6319	6499	6933	6343
63	5385	6377	6512	6677	7115	6413
64	5570	5353	6687	6846	7291	6349
65	5766	5610	6821	6970	6515	6336
66	5969	5824	5393	5678	5451	5663
67	6151	6013	5524	5637	5722	5809
68	6325	6190	5767	5887	5960	6026
69	6487	6353	5970	6089	6173	6214
70	6638	6511	6141	6264	6374	6386
71	6706	6625	6318	6437	6564	6530
72	5725	6662	6481	6593	6756	6443
73	5759	6566	6616	6704	6937	6516
74	5987	6697	6531	6735	7103	6611
75	6169	6818	6607	6848	7229	6734
76	6339	6512	6787	6816	6636	6618
77	6496	6405	6869	6544	6361	6535
78	6630	6577	6232	6709	6578	6545
79	6668	6692	6414	6808	6750	6666
80	6653	6748	6562	6824	6878	6733
81	6748	6733	6651	6776	6923	6766
82	6854	6725	6713	6828	6884	6801
83	6720	6781	6754	6875	6938	6814
84	6474	6811	6780	6916	7029	6802
85	6630	6793	6807	6947	6985	6832
86	6710	6864	6832	6973	6943	6864
87	6708	6856	6879	6968	7071	6896
88	6759	6839	6941	6901	7047	6897
89	6809	6843	6956	6954	6875	6887
90	6785	6761	6921	7036	6963	6893
91	6799	6706	6996	7014	7003	6904
92	6823	6770	6882	6906	6935	6863
93	6804	6815	6758	6901	7070	6870
94	6810	6915	6815	6971	7215	6945
95	6790	7047	6851	7048	7363	7020
96	6766	7171	6916	7133	7493	7096
97	6741	7259	7042	7258	7612	7182
98	6706	7347	7147	7372	7729	7260
99	6788	3893	7276	7469	5783	6242
100	6867	1544	7398	7505	1435	4950

	T	U	V	W	X	Y
51	5462	5771	4350	7194	7223	6000
52	5609	4716	4632	6211	4635	5161
53	5744	4995	4885	4611	4753	4998
54	5866	5233	5112	4851	4972	5207
55	5935	5443	5312	5080	5198	5394
56	5865	5648	5504	5295	5407	5544
57	5748	5861	5685	5519	5616	5686
58	5865	6056	5870	5732	5819	5868
59	5918	6243	6043	5946	6029	6036
60	5899	6415	6206	6141	6228	6178
61	5945	6586	6341	6330	6413	6323
62	5986	6741	6429	6510	6584	6450
63	5990	6854	5919	6681	6756	6440
64	6013	5850	5798	6833	6879	6275
65	6053	5883	5986	6954	5885	6152
66	6120	6107	6115	6487	5739	6114
67	6145	6286	6207	5634	5989	6052
68	6101	6433	6284	5908	6187	6183
69	6048	6543	6327	6132	6354	6281
70	6059	6594	6364	6312	6466	6359
71	6089	6630	6371	6486	6550	6425
72	6150	6686	6403	6620	6608	6493
73	6195	6763	6358	6700	6654	6534
74	6228	6789	6375	6732	6569	6539
75	6269	6821	6382	6701	6565	6548
76	6300	6692	6412	6587	6567	6512
77	6311	6619	6467	6643	6580	6524
78	6328	6703	6511	6651	6611	6561
79	6356	6752	6528	6670	6599	6581
80	6399	6785	6562	6649	6627	6604
81	6445	6844	6577	6647	6644	6631
82	6503	6873	6619	6675	6662	6666
83	6526	6865	6677	6700	6687	6691
84	6542	6894	6688	6730	6696	6710
85	6556	6881	6677	6729	6715	6712
86	6534	6839	6700	6687	6734	6699
87	6534	6862	6699	6732	6721	6710
88	6529	6857	6637	6729	6667	6684
89	6515	6865	6623	6726	6677	6681
90	6567	6893	6672	6728	6706	6713
91	6629	6946	6745	6767	6776	6773
92	6694	7017	6842	6840	6895	6858
93	6773	7131	6939	6962	7028	6967
94	6858	7230	7019	7075	7132	7063
95	6940	7341	7066	7178	7196	7144
96	7011	7430	6975	7224	7211	7170
97	7049	7329	1641	7252	6539	5962
98	4753	1613	1514	2422	1430	2346
99	1404	1447	1719	1504	1680	1551
100	1523	1671	1847	1717	1850	1722

	Z	AA	AB	AC	AD	AE
51	6181	6016	5891	5811	6378	6055
52	6273	6006	5864	5790	6399	6066
53	6085	6062	5871	5849	6331	6040
54	6108	6118	5850	5819	6232	6025
55	6164	6113	5869	5851	6337	6067
56	6157	6097	5895	5849	6359	6071
57	6175	6107	5894	5836	6309	6064
58	6158	6127	5914	5841	6362	6080
59	6150	6167	5934	5836	6364	6090
60	6196	6174	5944	5849	6337	6100
61	6244	6210	5956	5877	6263	6110
62	6267	6244	6011	5865	6301	6138
63	6304	6285	6069	5898	6361	6183
64	6330	6318	6113	5943	6434	6228
65	6308	6323	6155	5999	6484	6254
66	6264	6242	6164	6036	6455	6232
67	6271	6242	6178	6052	6403	6229
68	6291	6267	6193	6060	6428	6248
69	6349	6306	6224	6082	6463	6285
70	6406	6370	6250	6083	6514	6325
71	6418	6423	6286	6114	6556	6359
72	6418	6432	6310	6154	6601	6383
73	6426	6446	6343	6184	6622	6404
74	6423	6464	6383	6207	6641	6424
75	6429	6484	6419	6227	6636	6439
76	6440	6474	6455	6265	6631	6453
77	6452	6510	6486	6318	6670	6487
78	6470	6535	6485	6343	6707	6508
79	6502	6545	6492	6353	6728	6524
80	6510	6573	6528	6368	6757	6547
81	6508	6610	6555	6385	6758	6563
82	6520	6604	6579	6394	6763	6572
83	6535	6601	6601	6400	6773	6582
84	6548	6604	6620	6413	6782	6593
85	6556	6615	6635	6425	6794	6605
86	6588	6626	6620	6439	6814	6617
87	6622	6655	6629	6458	6837	6640
88	6693	6696	6667	6452	6858	6673
89	6789	6764	6721	6457	6871	6720
90	6903	6860	6784	6496	6938	6796
91	7006	6976	6879	6560	7041	6892
92	7110	7086	6973	6655	7165	6998
93	7164	7200	7069	6751	7277	7092
94	6666	7290	7136	6835	7379	7061
95	1400	7284	7030	6941	7431	6017
96	1407	2389	1902	7019	7376	4019
97	1434	1430	1402	6943	1839	2610
98	1524	1430	1405	2148	1403	1582
99	1747	1442	1443	1417	1412	1492
100	1961	1649	1664	1401	1410	1617

	B	C	D	E	F	G
101	2509	2809	2514	2657	2588	2615
102	2668	2962	2658	2823	2751	2772
103	2828	3137	2831	3003	2923	2944
104	2997	3324	3015	3186	3103	3125
105	3190	3514	3214	3342	3251	3302
106	3391	3675	3383	3479	3378	3461
107	3577	3807	3528	3625	3524	3612
108	3721	3950	3677	3809	3707	3773
109	3881	4132	3862	3990	3886	3950
110	4068	4334	4049	4163	4050	4133
111	4273	4506	4238	4302	4185	4301
112	4468	4636	4378	4458	4340	4456
113	4616	4781	4531	4641	4531	4620
114	4754	4956	4704	4841	4733	4798
115	4923	5146	4900	5007	4897	4975
116	5106	5306	5071	5149	5036	5134
117	5284	5432	5215	5290	5181	5280
118	5426	5570	5351	5461	5357	5433
119	5561	5739	5529	5638	5534	5600
120	5723	5916	5711	5814	5706	5774
121	5911	6085	5892	5971	5861	5944
122	6090	6236	6049	6138	6031	6109
123	6255	6389	6212	6293	6212	6272
124	6417	6487	6330	6404	6375	6403
125	6550	6568	6440	6506	6468	6506
126	6645	6645	6546	6596	6552	6597
127	6732	6720	6643	6670	6630	6679
128	6804	6787	6719	6743	6705	6752
129	6871	6858	6793	6812	6777	6822
130	6932	6922	6860	6885	6853	6890
131	6997	6992	6931	6951	6926	6959
132	7060	7059	6999	7018	6996	7026
133	7126	7129	7066	7078	7057	7091
134	7186	7193	7128	7143	7123	7155
135	7247	7261	7190	7210	7193	7220
136	7306	7332	7254	7292	7268	7290
137	7376	7400	7330	7358	7336	7360
138	7441	7459	7397	7418	7400	7423
139	7505	7511	7459	7474	7460	7482
140	7557	7563	7515	7539	7529	7541
141	7610	7621	7578	7600	7593	7600
142	7661	7682	7641	7659	7651	7659
143	7722	7746	7701	7710	7706	7717
144	7776	7801	7752	7773	7767	7774
145	7831	7863	7809	7833	7829	7833
146	7881	7923	7872	7899	7892	7893
147	7941	7986	7935	7951	7945	7952
148	7999	8040	7990	8006	8000	8007
149	8060	8098	8049	8062	8055	8065
150	8113	8157	8102	8124	8116	8122

	H	I	J	K	L	M
101	4803	10331	8524	8347	8386	8078
102	1566	9997	8313	8283	8264	7285
103	1700	9982	8023	8130	7945	7156
104	1716	10000	6447	7699	7279	6628
105	1785	9934	1577	1547	1479	3264
106	1930	9761	1716	1445	1570	3284
107	2154	9670	1743	1534	1619	3344
108	2408	9478	1793	1569	1702	3390
109	2605	7457	1926	1646	1917	3110
110	2658	1605	2135	1845	2163	2081
111	2708	1627	2377	2103	2388	2241
112	2869	1569	2565	2323	2522	2370
113	3105	1573	2627	2464	2563	2466
114	3333	1670	2668	2501	2657	2566
115	3514	1968	2804	2586	2867	2748
116	3591	2246	3025	2789	3098	2950
117	3681	2419	3257	3027	3305	3138
118	3847	2466	3433	3235	3429	3282
119	4050	2519	3503	3368	3499	3388
120	4246	2632	3577	3431	3616	3500
121	4415	2844	3728	3554	3802	3669
122	4509	3083	3926	3736	3993	3849
123	4594	3289	4120	3943	4173	4024
124	4728	3364	4272	4125	4289	4156
125	4916	3388	4359	4256	4364	4257
126	5105	3514	4439	4335	4454	4369
127	5262	3742	4562	4434	4601	4520
128	5337	3963	4729	4580	4781	4678
129	5409	4141	4913	4771	4949	4837
130	5541	4200	5058	4940	5044	4957
131	5717	4262	5125	5052	5093	5050
132	5884	4393	5188	5102	5172	5148
133	6003	4586	5305	5186	5321	5280
134	6066	4765	5464	5330	5477	5420
135	6152	4916	5623	5500	5609	5560
136	6268	4987	5728	5633	5679	5659
137	6364	5054	5786	5718	5740	5732
138	6447	5162	5856	5773	5827	5813
139	6513	5320	5965	5861	5943	5920
140	6559	5488	6093	5974	6063	6035
141	6601	5626	6215	6103	6176	6144
142	6648	5685	6282	6195	6242	6210
143	6707	5738	6324	6253	6277	6260
144	6772	5840	6366	6289	6312	6316
145	6824	5994	6418	6332	6369	6387
146	6858	6130	6484	6387	6429	6458
147	6895	6205	6545	6454	6491	6518
148	6945	6240	6594	6513	6528	6564
149	7006	6283	6629	6558	6556	6606
150	7065	6341	6662	6587	6592	6649

	N	O	P	Q	R	S
101	6951	1762	7470	7507	1504	5039
102	7073	1974	6111	2803	1654	3923
103	7162	2113	1441	1440	1879	2807
104	7250	2206	1526	1480	2096	2912
105	7308	2333	1580	1600	2255	3015
106	4886	2541	1705	1797	2352	2656
107	1564	2750	1932	2019	2476	2148
108	1793	2926	2153	2213	2662	2349
109	2004	3032	2308	2339	2869	2510
110	2143	3142	2398	2440	3053	2635
111	2237	3309	2524	2579	3172	2764
112	2363	3503	2696	2790	3280	2926
113	2565	3671	2897	2997	3425	3111
114	2780	3793	3087	3155	3612	3285
115	2973	3903	3218	3251	3785	3426
116	3090	4048	3317	3370	3912	3547
117	3198	4210	3451	3546	4017	3684
118	3356	4362	3635	3735	4155	3849
119	3559	4490	3820	3889	4313	4014
120	3740	4610	3955	4002	4468	4155
121	3869	4738	4059	4119	4594	4276
122	3975	4872	4185	4269	4716	4403
123	4116	5001	4345	4431	4838	4546
124	4277	5117	4498	4575	4963	4686
125	4435	5223	4633	4693	5087	4814
126	4564	5327	4748	4812	5206	4931
127	4684	5432	4872	4932	5310	5046
128	4810	5543	4995	5054	5414	5163
129	4944	5650	5123	5171	5520	5282
130	5077	5746	5239	5283	5631	5395
131	5201	5838	5345	5386	5740	5502
132	5306	5935	5440	5492	5842	5603
133	5413	6042	5546	5601	5930	5706
134	5518	6140	5651	5714	6020	5809
135	5632	6198	5764	5818	6081	5899
136	5743	6248	5860	5914	6143	5982
137	5841	6304	5951	6007	6203	6061
138	5934	6367	6043	6102	6264	6142
139	6037	6433	6129	6168	6321	6218
140	6140	6494	6192	6230	6382	6288
141	6230	6543	6256	6287	6445	6352
142	6289	6591	6313	6342	6501	6407
143	6342	6638	6371	6395	6549	6459
144	6399	6687	6426	6449	6595	6511
145	6463	6736	6483	6501	6638	6564
146	6532	6782	6534	6551	6687	6617
147	6595	6827	6582	6596	6733	6667
148	6648	6870	6625	6643	6778	6713
149	6699	6913	6673	6691	6819	6759
150	6749	6954	6721	6737	6861	6804

	T	U	V	W	X	Y
101	1751	1862	1964	1863	1976	1883
102	1971	2006	2110	1980	2087	2031
103	2152	2122	2284	2114	2237	2182
104	2281	2263	2473	2280	2404	2340
105	2394	2427	2632	2470	2584	2501
106	2569	2618	2761	2640	2723	2662
107	2752	2785	2874	2764	2831	2801
108	2938	2913	3016	2872	2936	2935
109	3090	3023	3174	3007	3071	3073
110	3202	3160	3319	3163	3214	3212
111	3325	3320	3422	3308	3340	3343
112	3485	3470	3525	3410	3426	3463
113	3641	3576	3650	3507	3530	3581
114	3776	3682	3792	3625	3648	3705
115	3877	3810	3907	3761	3778	3827
116	3986	3955	4006	3873	3875	3939
117	4116	4080	4108	3966	3963	4047
118	4259	4180	4231	4062	4056	4158
119	4373	4281	4344	4177	4170	4269
120	4477	4402	4440	4288	4272	4376
121	4591	4515	4524	4380	4355	4473
122	4722	4614	4618	4460	4430	4569
123	4835	4697	4714	4548	4521	4663
124	4932	4787	4806	4644	4607	4755
125	5022	4878	4892	4735	4696	4845
126	5125	4976	4981	4820	4777	4936
127	5232	5071	5065	4905	4859	5026
128	5336	5165	5149	4986	4937	5115
129	5427	5250	5235	5071	5021	5201
130	5514	5340	5326	5156	5100	5287
131	5597	5431	5398	5240	5181	5369
132	5685	5523	5463	5312	5244	5445
133	5768	5601	5527	5375	5305	5515
134	5850	5668	5598	5436	5363	5583
135	5920	5736	5667	5507	5435	5653
136	5989	5814	5731	5571	5499	5721
137	6059	5891	5784	5631	5560	5785
138	6142	5966	5845	5684	5612	5850
139	6201	6029	5908	5741	5676	5911
140	6250	6097	5978	5804	5739	5974
141	6295	6171	6037	5871	5804	6036
142	6342	6246	6093	5931	5861	6095
143	6392	6286	6150	5990	5920	6148
144	6443	6322	6212	6045	5976	6200
145	6491	6359	6251	6108	6043	6250
146	6536	6401	6287	6168	6100	6298
147	6580	6442	6319	6226	6159	6345
148	6629	6486	6357	6268	6212	6390
149	6675	6525	6395	6301	6270	6433
150	6719	6567	6439	6332	6306	6473

	Z	AA	AB	AC	AD	AE
101	2153	1874	1886	1404	1447	1753
102	2338	2091	2097	1401	1499	1885
103	2500	2283	2283	1412	1568	2009
104	2621	2442	2434	1464	1673	2127
105	2736	2575	2556	1577	1813	2251
106	2849	2711	2680	1727	2009	2395
107	3007	2829	2789	1930	2193	2550
108	3180	2988	2935	2116	2353	2714
109	3330	3163	3093	2276	2485	2869
110	3436	3319	3239	2397	2611	3000
111	3535	3432	3339	2532	2728	3113
112	3628	3525	3432	2657	2883	3225
113	3733	3613	3518	2811	3046	3344
114	3843	3727	3624	2979	3184	3471
115	3964	3837	3730	3126	3283	3588
116	4084	3953	3842	3230	3376	3697
117	4185	4064	3946	3324	3465	3797
118	4253	4163	4035	3413	3568	3886
119	4313	4228	4098	3521	3670	3966
120	4385	4290	4158	3631	3771	4047
121	4476	4356	4221	3745	3862	4132
122	4557	4441	4301	3844	3937	4216
123	4629	4520	4370	3935	3983	4287
124	4693	4593	4436	4002	4034	4352
125	4755	4653	4493	4065	4094	4412
126	4814	4714	4549	4125	4168	4474
127	4874	4770	4601	4202	4236	4537
128	4934	4833	4662	4274	4300	4601
129	5003	4892	4719	4342	4352	4662
130	5064	4961	4782	4400	4410	4723
131	5123	5026	4839	4459	4464	4782
132	5173	5084	4896	4515	4524	4838
133	5228	5135	4945	4576	4581	4893
134	5283	5195	4999	4633	4643	4951
135	5342	5254	5057	4699	4701	5011
136	5395	5317	5115	4754	4759	5068
137	5460	5376	5171	4810	4807	5125
138	5522	5440	5235	4857	4863	5183
139	5586	5505	5296	4916	4923	5245
140	5639	5574	5359	4972	4985	5306
141	5693	5632	5416	5031	5046	5364
142	5747	5690	5472	5088	5109	5421
143	5813	5747	5525	5150	5168	5481
144	5871	5813	5592	5209	5230	5543
145	5929	5877	5649	5273	5278	5601
146	5979	5938	5708	5325	5330	5656
147	6034	5991	5758	5383	5385	5710
148	6087	6048	5816	5438	5449	5768
149	6143	6103	5869	5503	5508	5825
150	6200	6163	5929	5561	5567	5884

	B	C	D	E	F	G
151	8173	8222	8166	8185	8173	8184
152	8236	8351	8242	8275	8235	8268
153	8415	8572	8440	8475	8348	8450
154	8639	8784	8653	8701	8574	8670
155	8855	8996	8867	8914	8793	8885
156	9066	9209	9073	9131	9010	9098
157	9282	9421	9293	9340	9221	9311
158	9489	9627	9503	9555	9436	9522
159	9701	9837	9716	9759	9641	9731
160	9912	10042	9923	9971	9852	9940
161	10123	10244	10133	10176	10057	10147
162	10328	10445	10336	10392	10272	10355
163	10534	10652	10549	10601	10483	10564
164	10736	10859	10752	10809	10695	10770
165	10947	11062	10965	11006	10893	10975
166	11151	11260	11160	11219	11102	11178
167	11357	11466	11367	11426	11313	11386
168	11557	11676	11573	11642	11527	11595
169	11766	11887	11789	11840	11728	11802
170	11972	12090	11988	12044	11935	12006
171	12178	12292	12194	12247	12140	12210
172	12378	12498	12395	12467	12356	12419
173	12582	12715	12612	12675	12560	12629
174	12792	12921	12820	12885	12768	12837
175	13008	13131	13032	13086	12971	13046
176	13213	13339	13236	13299	13186	13255
177	13422	13552	13453	13505	13394	13465
178	13628	13769	13661	13718	13604	13676
179	13844	13977	13880	13919	13803	13885
180	14052	14181	14083	14127	14016	14092
181	14263	14390	14294	14330	14218	14299
182	14468	14600	14498	14546	14432	14509
183	14676	14810	14711	14746	14635	14716
184	14881	15019	14915	14958	14845	14924
185	15089	15229	15126	15160	15045	15130
186	15290	15440	15328	15370	15256	15337
187	15500	15646	15540	15568	15458	15542
188	15704	15850	15741	15780	15670	15749
189	15906	16060	15950	15980	15872	15954
190	16106	16268	16152	16190	16083	16160
191	16310	16479	16365	16388	16286	16366
192	16511	16688	16565	16599	16496	16572
193	16712	16894	16773	16799	16696	16775
194	16908	17098	16973	17013	16912	16981
195	17108	17306	17186	17213	17115	17186
196	17305	17513	17391	17421	17327	17391
197	17504	17718	17602	17619	17525	17594
198	17699	17915	17799	17833	17738	17797
199	17891	18115	18012	18034	17941	17999
200	18084	18322	18213	18248	18151	18204

	H	I	J	K	L	M
151	7112	6408	6706	6622	6642	6698
152	7151	6468	6759	6668	6697	6749
153	7194	6519	6817	6728	6747	6801
154	7244	6555	6859	6778	6783	6844
155	7301	6592	6893	6817	6816	6884
156	7349	6631	6928	6846	6851	6921
157	7389	6687	6971	6885	6894	6965
158	7418	6746	7025	6924	6938	7010
159	7458	6797	7078	6976	6985	7059
160	7502	6827	7123	7018	7022	7098
161	7554	6860	7159	7061	7058	7138
162	7597	6903	7197	7095	7093	7177
163	7633	6966	7242	7133	7140	7223
164	7661	7023	7291	7176	7190	7268
165	7700	7071	7341	7229	7239	7316
166	7745	7107	7380	7271	7271	7355
167	7795	7148	7412	7309	7302	7393
168	7835	7197	7446	7337	7338	7431
169	7867	7253	7494	7376	7388	7476
170	7898	7301	7542	7419	7432	7518
171	7941	7346	7587	7470	7476	7564
172	7985	7379	7622	7509	7507	7600
173	8031	7419	7655	7550	7542	7639
174	8070	7463	7692	7582	7578	7677
175	8109	7516	7734	7624	7625	7722
176	8144	7563	7779	7665	7667	7764
177	8187	7606	7822	7711	7709	7807
178	8232	7636	7855	7749	7743	7843
179	8303	7675	7886	7789	7778	7886
180	8435	7722	7920	7821	7815	7943
181	8543	7777	7961	7859	7861	8000
182	8635	7820	8007	7900	7903	8053
183	8743	7859	8050	7947	7945	8109
184	8857	7892	8083	7982	7974	8158
185	8965	7937	8114	8017	8009	8208
186	9039	7982	8147	8044	8046	8252
187	9109	8032	8210	8106	8110	8313
188	9182	8074	8342	8233	8230	8412
189	9277	8116	8459	8363	8341	8511
190	9367	8151	8548	8453	8429	8590
191	9456	8194	8636	8540	8521	8669
192	9530	8242	8731	8624	8616	8749
193	9608	8368	8831	8720	8712	8848
194	9688	8492	8919	8806	8797	8940
195	9783	8590	8995	8893	8874	9027
196	9884	8671	9062	8962	8936	9103
197	9991	8770	9134	9030	9008	9187
198	10084	8874	9211	9092	9083	9269
199	10180	8978	9298	9172	9167	9359
200	10280	9055	9388	9248	9246	9443

	N	O	P	Q	R	S
151	6801	6999	6771	6783	6899	6851
152	6853	7042	6816	6827	6942	6896
153	6899	7083	6861	6868	6982	6939
154	6944	7123	6899	6911	7025	6980
155	6990	7164	6940	6953	7063	7022
156	7032	7208	6978	6993	7103	7063
157	7077	7254	7020	7034	7143	7106
158	7121	7294	7060	7075	7188	7148
159	7164	7338	7102	7115	7230	7190
160	7205	7380	7142	7157	7271	7231
161	7247	7423	7190	7201	7312	7275
162	7288	7466	7233	7248	7356	7318
163	7335	7509	7279	7289	7396	7362
164	7381	7551	7319	7330	7438	7404
165	7423	7595	7363	7373	7479	7447
166	7466	7639	7402	7416	7523	7489
167	7511	7683	7446	7461	7564	7533
168	7555	7727	7488	7505	7610	7577
169	7600	7767	7534	7546	7654	7620
170	7644	7809	7575	7591	7699	7664
171	7688	7853	7624	7633	7742	7708
172	7732	7898	7666	7675	7787	7752
173	7780	7940	7713	7718	7832	7797
174	7825	7987	7755	7763	7921	7850
175	7870	8081	7803	7805	8060	7924
176	7913	8221	7847	7849	8198	8006
177	7958	8352	7890	7916	8326	8088
178	8000	8481	7940	8058	8445	8185
179	8044	8602	8070	8198	8561	8295
180	8085	8718	8209	8333	8676	8404
181	8129	8828	8337	8453	8780	8505
182	8226	8935	8452	8575	8882	8614
183	8374	9036	8574	8689	8980	8731
184	8506	9138	8687	8799	9081	8842
185	8639	9235	8800	8902	9180	8951
186	8763	9332	8900	9004	9276	9055
187	8886	9424	9002	9102	9368	9156
188	9001	9517	9100	9201	9461	9256
189	9119	9604	9199	9296	9550	9354
190	9230	9692	9293	9393	9644	9450
191	9341	9780	9388	9483	9733	9545
192	9451	9874	9475	9574	9824	9640
193	9564	9964	9567	9664	9909	9734
194	9672	10060	9653	9750	9996	9826
195	9779	10154	9744	9836	10087	9920
196	9881	10255	9831	9930	10185	10016
197	9988	10359	9921	10014	10276	10112
198	10088	10470	10011	10107	10377	10211
199	10193	10582	10111	10197	10482	10313
200	10290	10699	10208	10294	10596	10417

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151	6764	6611	6477	6373	6344	6514
152	6812	6654	6516	6409	6378	6554
153	6858	6697	6558	6449	6421	6597
154	6904	6740	6603	6488	6459	6639
155	6944	6782	6643	6532	6501	6680
156	6989	6826	6685	6569	6541	6722
157	7033	6867	6725	6609	6582	6763
158	7079	6906	6768	6646	6622	6804
159	7119	6945	6808	6687	6663	6844
160	7164	6984	6850	6725	6702	6885
161	7210	7024	6888	6768	6743	6927
162	7258	7068	6927	6803	6783	6968
163	7303	7108	6962	6842	6827	7008
164	7348	7140	7002	6878	6862	7046
165	7391	7173	7038	6916	6901	7084
166	7432	7211	7073	6949	6938	7121
167	7472	7249	7108	6983	6976	7158
168	7515	7290	7149	7016	7009	7196
169	7557	7326	7188	7057	7048	7235
170	7601	7368	7231	7094	7082	7275
171	7643	7407	7270	7137	7122	7316
172	7688	7451	7311	7173	7156	7356
173	7727	7491	7351	7216	7200	7397
174	7778	7532	7391	7253	7236	7438
175	7821	7572	7428	7294	7280	7479
176	7869	7612	7469	7329	7318	7519
177	7913	7651	7509	7370	7363	7561
178	7959	7690	7551	7407	7400	7601
179	8004	7725	7590	7451	7446	7643
180	8050	7767	7631	7488	7485	7684
181	8095	7807	7669	7529	7533	7727
182	8141	7849	7712	7567	7572	7768
183	8255	7884	7757	7609	7617	7824
184	8410	7924	7801	7651	7660	7889
185	8550	7964	7840	7698	7709	7952
186	8682	8007	7883	7741	7755	8014
187	8806	8047	7924	7787	7809	8075
188	8925	8121	7970	7830	7854	8140
189	9035	8247	8014	7879	7907	8216
190	9150	8377	8108	7923	7956	8303
191	9256	8491	8247	7975	8066	8407
192	9366	8605	8381	8072	8219	8529
193	9472	8712	8503	8226	8370	8657
194	9592	8830	8632	8366	8496	8783
195	9700	8940	8753	8498	8621	8902
196	9823	9063	8878	8621	8734	9024
197	9942	9179	8995	8743	8855	9143
198	10068	9301	9118	8857	8961	9261
199	10190	9418	9236	8975	9075	9379
200	10317	9534	9358	9090	9180	9496

	Z	AA	AB	AC	AD	AE
151	6261	6217	5980	5621	5615	5939
152	6318	6278	6038	5668	5671	5995
153	6377	6334	6092	5721	5723	6049
154	6429	6389	6147	5772	5778	6103
155	6486	6442	6199	5830	5833	6158
156	6541	6498	6258	5880	5887	6213
157	6604	6550	6314	5938	5941	6269
158	6649	6611	6380	5990	5997	6325
159	6688	6662	6442	6044	6048	6377
160	6726	6700	6517	6092	6102	6427
161	6767	6736	6586	6144	6156	6478
162	6806	6782	6665	6195	6219	6533
163	6847	6825	6734	6255	6274	6587
164	6887	6873	6782	6311	6335	6638
165	6933	6919	6827	6374	6396	6690
166	6974	6970	6879	6432	6466	6744
167	7019	7023	6927	6503	6537	6802
168	7060	7074	6980	6577	6612	6861
169	7103	7120	7026	6657	6682	6918
170	7144	7170	7077	6730	6742	6973
171	7189	7217	7124	6780	6783	7019
172	7233	7268	7171	6821	6826	7064
173	7280	7315	7215	6870	6867	7109
174	7325	7365	7256	6915	6911	7154
175	7372	7410	7289	6966	6957	7199
176	7416	7441	7326	7010	7007	7240
177	7467	7475	7363	7060	7046	7282
178	7515	7520	7406	7104	7088	7327
179	7567	7560	7447	7148	7127	7370
180	7607	7603	7489	7183	7166	7410
181	7650	7644	7527	7222	7204	7449
182	7690	7687	7569	7257	7245	7490
183	7731	7730	7608	7299	7286	7531
184	7772	7775	7651	7335	7329	7572
185	7815	7814	7694	7378	7370	7614
186	7858	7859	7740	7414	7411	7656
187	7902	7902	7784	7457	7452	7699
188	7946	7947	7829	7494	7495	7742
189	7994	7993	7873	7536	7535	7786
190	8041	8046	7923	7572	7578	7832
191	8090	8092	7968	7615	7618	7877
192	8137	8141	8019	7653	7662	7922
193	8185	8186	8063	7697	7702	7967
194	8233	8236	8116	7739	7748	8014
195	8282	8283	8162	7784	7789	8060
196	8304	8370	8210	7825	7831	8108
197	8425	8502	8253	7871	7875	8185
198	8575	8621	8310	7912	7923	8268
199	8704	8724	8431	7965	7966	8358
200	8815	8827	8557	8011	8014	8445

	B	C	D	E	F	G
201	18281	18523	18425	18448	18348	18405
202	18473	18723	18624	18656	18559	18607
203	18661	18926	18834	18858	18760	18808
204	18847	19130	19034	19071	18973	19011
205	19034	19336	19246	19268	19171	19211
206	19222	19537	19442	19475	19379	19411
207	19410	19735	19648	19671	19577	19608
208	19596	19936	19844	19882	19788	19809
209	19782	20139	20052	20078	19989	20008
210	19967	20339	20249	20284	20197	20207
211	20156	20543	20456	20477	20398	20406
212	20340	20742	20650	20688	20607	20605
213	20528	20945	20860	20887	20806	20805
214	20717	21148	21055	21094	21018	21006
215	20909	21347	21265	21287	21214	21204
216	21094	21549	21462	21501	21430	21407
217	21281	21750	21674	21700	21628	21607
218	21468	21950	21869	21912	21838	21807
219	21656	22148	22080	22107	22034	22005
220	21844	22348	22274	22317	22247	22206
221	22031	22547	22482	22520	22447	22405
222	22218	22750	22682	22738	22669	22611
223	22407	22953	22897	22945	22876	22816
224	22598	23159	23099	23171	23103	23026
225	22789	23368	23323	23380	23316	23235
226	22977					
227	23171					
228	23364					
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	H	I	J	K	L	M
201	10405	9126	9477	9331	9318	9531
202	10523	9198	9561	9400	9384	9613
203	10640	9297	9654	9475	9471	9707
204	10742	9397	9756	9558	9570	9805
205	10852	9501	9873	9665	9683	9915
206	10967	9595	9979	9768	9779	10018
207	11100	9694	10081	9873	9874	10124
208	11220	9790	10181	9958	9966	10223
209	11341	9903	10292	10063	10073	10334
210	11452	10021	10409	10165	10181	10446
211	11571	10147	10532	10283	10293	10565
212	11692	10256	10648	10395	10395	10677
213	11821	10365	10762	10508	10502	10792
214	11943	10471	10871	10612	10604	10900
215	12071	10603	10987	10728	10718	11021
216	12182	10733	11105	10838	10830	11138
217	12301	10864	11228	10961	10952	11261
218	12422	10971	11345	11076	11062	11375
219	12552	11085	11455	11195	11170	11491
220	12674	11204	11558	11296	11273	11601
221	12796	11341	11670	11408	11391	11721
222	12905	11461	11783	11516	11507	11834
223	13028	11583	11902	11639	11628	11956
224	13151	11692	12012	11750	11732	12067
225	13276	11811	12120	11867	11844	12184
226	13392	11928	12226	11973	11951	12294
227	13515	12054	12344	12090	12071	12415
228	13629	12171	12461	12200	12183	12529
229	13752	12298	12581	12323	12296	12650
230	13867	12406	12697	12431	12406	12761
231	13992	12523	12813	12551	12523	12880
232	14111	12639	12928	12661	12633	12994
233	14235	12770	13051	12779	12752	13117
234	14351	12892	13170	12892	12872	13235
235	14478	13015	13300	13017	12996	13361
236	14597	13126	13424	13136	13110	13479
237	14727	13253	13552	13266	13234	13606
238	14845	13376	13673	13382	13353	13726
239	14970	13510	13801	13509	13482	13854
240	15088	13633	13927	13631	13603	13976
241	15219	13763	14057	13761	13734	14107
242	15340	13882	14180	13882	13855	14228
243	15466	14017	14307	14012	13982	14357
244	15585	14136	14434	14127	14106	14478
245	15711	14272	14564	14260	14238	14609
246	15834	14396	14693	14383	14362	14734
247	15966	14526	14825	14515	14493	14865
248	16084	14647	14952	14634	14616	14987
249	16213	14777	15083	14766	14745	15117
250	16334	14901	15210	14890	14875	15242

	N	O	P	Q	R	S
201	10396	10815	10315	10393	10710	10526
202	10494	10936	10421	10502	10826	10636
203	10601	11052	10536	10609	10945	10749
204	10703	11171	10653	10726	11065	10864
205	10819	11286	10774	10844	11182	10981
206	10926	11403	10893	10965	11304	11098
207	11042	11516	11013	11081	11426	11216
208	11158	11635	11131	11202	11546	11334
209	11282	11747	11254	11316	11665	11453
210	11399	11866	11374	11439	11788	11573
211	11525	11981	11494	11552	11907	11692
212	11647	12098	11610	11674	12027	11811
213	11773	12215	11729	11787	12137	11928
214	11895	12338	11844	11903	12253	12047
215	12022	12454	11966	12017	12373	12166
216	12142	12578	12081	12132	12490	12285
217	12269	12699	12198	12243	12604	12403
218	12387	12826	12312	12361	12725	12522
219	12513	12953	12431	12474	12845	12643
220	12636	13079	12546	12592	12970	12765
221	12765	13203	12670	12708	13092	12888
222	12884	13331	12785	12828	13215	13009
223	13010	13458	12908	12946	13337	13132
224	13130	13588	13028	13072	13460	13256
225	13260	13712	13155	13189	13579	13379
226	13379	13839	13275	13311	13703	13501
227	13507	13961	13398	13430	13828	13625
228	13630	14090	13518	13552	13951	13748
229	13760	14212	13644	13671	14074	13872
230	13889	14340	13767	13791	14199	13997
231	14025	14467	13894	13907	14322	14123
232	14149	14592	14017	14029	14444	14246
233	14282	14714	14141	14145	14558	14368
234	14403	14841	14260	14264	14680	14490
235	14535	14961	14383	14383	14797	14612
236	14664	15089	14506	14508	14915	14736
237	14795	15207	14638	14630	15038	14862
238	14919	15332	14761	14756	15158	14985
239	15052	15455	14889	14880	15280	15111
240	15182	15579	15016	15016	15403	15239
241	15315	15699	15146	15143	15523	15365
242	15438	15823	15272	15263	15643	15488
243	15568	15945	15403	15383	15765	15613
244	15690	16073	15528	15519	15883	15739
245	15818	16191	15658	15648	16004	15864
246	15937	16320	15781	15778	16131	15989
247	16065	16444	15910	15901	16257	16115
248	16182	16575	16037	16033	16383	16242
249	16310	16699	16167	16160	16510	16369
250	16431	16830	16292	16298	16635	16497

	T	U	V	W	X	Y
201	10438	9649	9470	9208	9292	9611
202	10568	9772	9590	9323	9389	9728
203	10691	9886	9700	9435	9497	9842
204	10820	10007	9821	9545	9598	9958
205	10941	10123	9936	9660	9705	10073
206	11068	10246	10054	9769	9804	10188
207	11189	10364	10164	9883	9916	10303
208	11316	10482	10282	9992	10020	10418
209	11437	10597	10395	10102	10131	10532
210	11565	10719	10516	10210	10236	10649
211	11682	10835	10630	10323	10349	10764
212	11807	10958	10748	10433	10455	10880
213	11929	11069	10862	10547	10568	10995
214	12058	11190	10979	10655	10670	11110
215	12177	11301	11090	10768	10780	11223
216	12306	11425	11213	10881	10882	11341
217	12423	11540	11328	10994	10994	11456
218	12545	11661	11445	11106	11097	11571
219	12665	11775	11554	11220	11212	11685
220	12789	11897	11671	11331	11316	11801
221	12907	12010	11781	11449	11431	11916
222	13030	12132	11902	11558	11531	12031
223	13142	12241	12013	11672	11650	12144
224	13260	12364	12137	11785	11750	12259
225	13373	12476	12252	11900	11863	12373
226	13489	12598	12374	12012	11967	12488
227	13600	12711	12487	12127	12080	12601
228	13720	12830	12608	12239	12184	12716
229	13833	12945	12723	12349	12297	12829
230	13948	13065	12844	12458	12403	12944
231	14056	13182	12961	12572	12517	13058
232	14173	13306	13082	12682	12624	13173
233	14282	13423	13195	12793	12742	13287
234	14398	13545	13315	12903	12846	13401
235	14509	13662	13428	13017	12965	13516
236	14623	13785	13549	13130	13071	13632
237	14734	13901	13665	13247	13188	13747
238	14849	14021	13789	13363	13294	13863
239	14962	14134	13902	13483	13413	13979
240	15082	14257	14024	13602	13518	14097
241	15191	14372	14135	13725	13637	14212
242	15305	14496	14254	13843	13753	14330
243	15417	14611	14369	13968	13876	14448
244	15534	14735	14494	14091	13992	14569
245	15643	14849	14614	14216	14123	14689
246	15759	14973	14739	14340	14249	14812
247	15873	15087	14855	14467	14382	14933
248	15995	15209	14983	14587	14507	15056
249	16108	15324	15106	14713	14642	15179
250	16226	15444	15237	14839	14771	15303

	Z	AA	AB	AC	AD	AE
201	8924	8925	8660	8061	8059	8526
202	9024	9029	8759	8108	8107	8605
203	9130	9123	8847	8159	8150	8682
204	9223	9218	8937	8204	8196	8756
205	9304	9308	9018	8255	8242	8825
206	9356	9409	9098	8319	8330	8902
207	9442	9498	9145	8446	8447	8996
208	9546	9591	9189	8554	8551	9086
209	9665	9678	9291	8654	8642	9186
210	9781	9770	9394	8742	8730	9283
211	9905	9856	9515	8838	8812	9385
212	10016	9951	9636	8921	8893	9483
213	10136	10052	9754	9007	8980	9586
214	10248	10161	9878	9085	9088	9692
215	10367	10266	9992	9184	9189	9800
216	10475	10380	10116	9284	9305	9912
217	10592	10488	10228	9395	9418	10024
218	10702	10603	10352	9499	9538	10139
219	10821	10712	10467	9618	9654	10254
220	10936	10827	10592	9729	9771	10371
221	11060	10941	10709	9850	9886	10489
222	11177	11058	10838	9964	10003	10608
223	11301	11171	10959	10088	10116	10727
224	11421	11293	11090	10200	10233	10847
225	11544	11414	11210	10325	10351	10969
226	11661	11538	11343	10442	10477	11092
227	11788	11658	11466	10573	10598	11217
228	11911	11780	11602	10697	10724	11343
229	12040	11904	11727	10827	10847	11469
230	12165	12028	11859	10951	10976	11596
231	12294	12149	11982	11082	11103	11722
232	12424	12272	12110	11207	11232	11849
233		12394	12231	11340	11361	
234			12363	11468	11490	
235			12482	11600	11613	
236				11724	11738	
237				11853	11861	
238				11975	11986	
239				12106	12109	
240				12224	12233	
241				12352	12355	
242				12471	12474	
243						
244						
245						
246						
247						
248						
249						
250						

	H	I	J	K	L	M
251	16465	15037	15342	15024	15008	15375
252	16585	15160	15470	15145	15135	15499
253	16713	15290	15603	15282	15277	15633
254	16835	15407	15732	15410	15406	15758
255	16968	15540	15866	15546	15542	15892
256	17089	15665	15996	15671	15671	16018
257	17216	15799	16131	15810	15813	16154
258	17339	15923	16265	15941	15949	16283
259	17473	16060	16404	16083	16086	16421
260	17596	16190	16536	16214	16217	16551
261	17728	16326	16673	16353	16360	16688
262	17848	16455	16807	16483	16496	16818
263	17978	16592	16947	16624	16636	16955
264	18102	16724	17084	16757	16769	17087
265	18233	16867	17221	16902	16910	17227
266	18357	16997	17355	17035	17044	17358
267	18491	17135	17496	17181	17185	17498
268	18618	17270	17631	17315	17320	17631
269	18750	17415	17769	17458	17459	17770
270	18873	17550	17904	17590	17590	17901
271	19009	17693	18046	17732	17727	18041
272	19136	17828	18178	17862	17860	18173
273	19269	17973	18318	18008	18000	18314
274	19395	18108	18450	18139	18128	18444
275	19533	18251	18594	18281	18270	18586
276	19659	18382	18730	18412	18401	18717
277	19794	18527	18876	18558	18542	18859
278	19920	18662	19012	18687	18677	18992
279	20057	18811	19152	18834	18819	19135
280	20185	18945	19287	18969	18953	19268
281	20324	19089	19431	19116	19095	19411
282	20453	19220	19568	19247	19225	19543
283	20589	19365	19709	19387	19368	19684
284	20716	19499	19845	19522	19502	19817
285	20851	19642	19986	19668	19644	19958
286	20978	19776	20121	19799	19778	20090
287	21115	19920	20263	19943	19917	20232
288	21243	20054	20399	20079	20053	20366
289	21378	20198	20544	20223	20198	20508
290	21506	20335	20681	20358	20334	20643
291	21644	20483	20826	20500	20476	20786
292	21771	20622	20963	20635	20618	20922
293	21909	20767	21109	20780	20762	21065
294	22040	20904	21249	20913	20901	21201
295	22181	21051	21401	21063	21047	21349
296	22311	21190	21543	21201	21188	21487
297	22448	21339	21698	21353	21339	21635
298	22582	21479	21842	21494	21482	21776
299	22725	21632	21992	21649	21631	21926
300	22858	21772	22136	21791	21776	22067

	N	O	P	Q	R	S
251	16559	16956	16421	16424	16761	16624
252	16681	17090	16550	16557	16889	16753
253	16815	17217	16682	16683	17019	16883
254	16937	17353	16809	16814	17148	17012
255	17071	17487	16940	16939	17276	17143
256	17191	17626	17071	17074	17404	17273
257	17320	17760	17205	17202	17538	17405
258	17445	17900	17335	17339	17672	17538
259	17580	18036	17469	17468	17806	17672
260	17704	18174	17599	17605	17939	17804
261	17838	18308	17734	17736	18073	17938
262	17961	18449	17866	17874	18207	18071
263	18098	18584	18005	18005	18340	18206
264	18224	18731	18138	18143	18473	18342
265	18360	18863	18275	18276	18612	18477
266	18486	19003	18406	18413	18751	18612
267	18624	19139	18544	18545	18887	18748
268	18751	19279	18681	18684	19025	18884
269	18890	19417	18822	18820	19161	19022
270	19018	19560	18955	18961	19300	19159
271	19155	19695	19092	19095	19436	19295
272	19283	19840	19230	19236	19574	19433
273	19421	19974	19369	19372	19714	19570
274	19552	20119	19505	19511	19853	19708
275	19690	20256	19645	19645	19993	19846
276	19818	20402	19783	19788	20135	19985
277	19956	20541	19928	19922	20277	20125
278	20089	20691	20065	20067	20419	20266
279	20226	20833	20208	20203	20563	20407
280	20354	20982	20345	20348	20705	20547
281	20493	21124	20485	20482	20851	20687
282	20624	21278	20627	20627	20999	20831
283	20766	21424	20776	20764	21148	20976
284	20896	21581	20920	20910	21295	21120
285	21038	21727	21073	21052	21446	21267
286	21170	21885	21215	21202	21593	21413
287	21315	22034	21365	21344	21741	21560
288	21449	22194	21514	21497	21895	21710
289	21595	22347	21666	21645	22054	21861
290	21726	22513	21814	21799	22210	22012
291	21869	22668	21964	21942	22369	22162
292	22002	22838	22116	22097	22532	22317
293	22150	22993	22275	22249	22697	22473
294	22284	23158	22434	22413	22863	22630
295	22432	23308	22600	22559	23034	22787
296	22564		22761	22718	23202	
297	22711		22927	22870	23374	
298	22847		23092	23038		
299	22997		23262	23194		
300	23134		23431	23360		

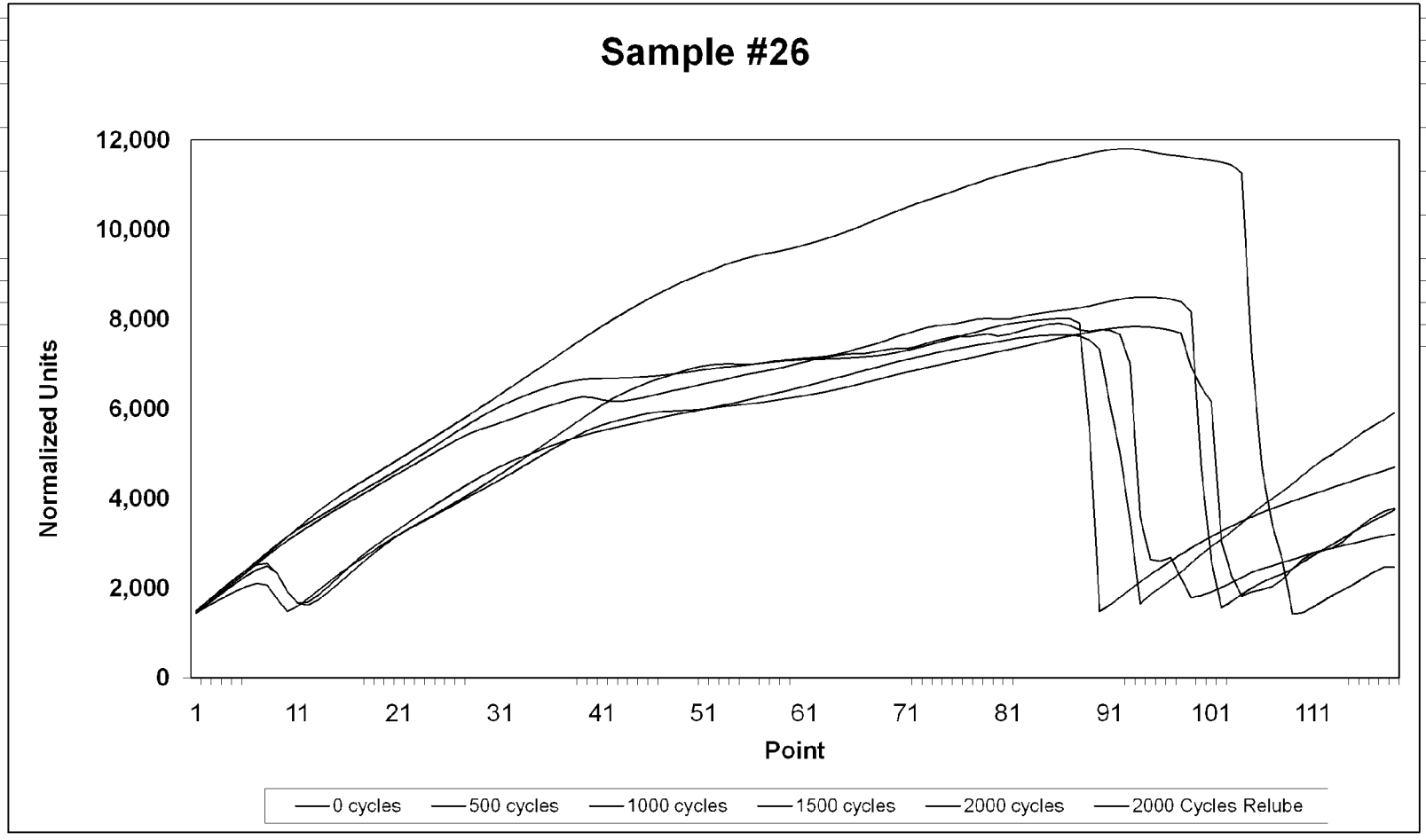
	T	U	V	W	X	Y
251	16339	15556	15362	14969	14907	15427
252	16460	15677	15496	15096	15033	15552
253	16575	15789	15621	15225	15166	15675
254	16697	15913	15756	15353	15289	15802
255	16812	16032	15884	15482	15420	15926
256	16933	16160	16021	15610	15543	16053
257	17046	16282	16147	15737	15676	16178
258	17164	16414	16281	15864	15796	16304
259	17281	16542	16406	15996	15926	16430
260	17404	16678	16542	16121	16043	16558
261	17519	16807	16669	16245	16178	16684
262	17640	16947	16801	16369	16305	16812
263	17761	17076	16927	16498	16439	16940
264	17890	17217	17066	16622	16561	17071
265	18013	17350	17197	16753	16698	17202
266	18145	17492	17338	16882	16823	17336
267	18273	17625	17465	17009	16956	17466
268	18407	17766	17601	17137	17081	17598
269	18537	17898	17731	17267	17218	17730
270	18672	18044	17868	17397	17343	17865
271	18804	18179	17996	17531	17480	17998
272	18939	18321	18137	17658	17605	18132
273	19069	18458	18266	17790	17744	18265
274	19207	18605	18405	17920	17872	18402
275	19339	18742	18540	18052	18012	18537
276	19477	18886	18681	18184	18140	18674
277	19612	19022	18815	18320	18284	18811
278	19751	19163	18959	18459	18414	18949
279	19885	19301	19097	18602	18558	19089
280	20021	19445	19243	18741	18690	19228
281	20152	19585	19382	18879	18837	19367
282	20289	19731	19529	19024	18971	19509
283	20420	19871	19671	19168	19118	19650
284	20557	20021	19828	19315	19255	19795
285	20688	20162	19974	19460	19406	19938
286	20824	20312	20129	19609	19545	20084
287	20957	20455	20275	19756	19695	20228
288	21096	20608	20432	19907	19839	20376
289	21230	20752	20582	20056	19994	20523
290	21369	20907	20746	20205	20142	20674
291	21501	21058	20903	20360	20303	20825
292	21643	21216	21068	20515	20451	20979
293	21776	21371	21225	20675	20614	21132
294	21916	21532	21394	20837	20767	21289
295	22050	21682	21552	20999	20933	21443
296	22192	21842	21719	21161	21090	21601
297	22325	21991	21880	21326	21262	21757
298	22466	22153	22046	21494	21426	21917
299	22605	22305	22205	21666	21603	22077
300	22751	22463	22375	21835	21772	22239

	H	I	J	K	L	M
301	23001	21926	22289	21946	21932	22219
302	23136	22066	22437	22092	22082	22363
303	23276	22220	22594	22252	22239	22516
304	23412	22363	22742	22399	22391	22661
305		22516	22897	22558	22552	
306		22661	23042	22704	22706	
307		22813	23199	22867	22869	
308		22956	23346	23014	23019	
309		23107		23178	23177	
310		23246		23325	23327	
311		23397				

	N	O	P	Q	R	S
301	23283					
302	23416					
303						
304						
305						
306						
307						
308						
309						
310						
311						

	T	U	V	W	X	Y
301	22892	22614	22538	22006	21957	22401
302	23037	22773	22708	22184	22127	22566
303	23181	22923	22869	22362	22310	22729
304	23332	23082	23042	22539	22477	22894
305		23229	23210	22704	22660	
306		23387	23388	22883	22829	
307				23064	23011	
308				23242	23182	
309				23417	23364	
310						
311						

	A
1	File:
2	Make:
3	Model:
4	Step Size [inch]:
5	Deflection [inch/lb]:



	B	C	D	E	F	G
1	770-26-0	7652				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1594	1415	1439	1534	1524	1501
8	1798	1600	1627	1700	1731	1691
9	2009	1786	1817	1869	1930	1882
10	2201	1976	2011	2042	2128	2072
11	2375	2156	2195	2208	2311	2249
12	2523	2326	2372	2350	2472	2409
13	2604	2463	2512	2468	2582	2526
14	2434	2539	2601	2570	2609	2551
15	1785	2418	2556	2607	2309	2335
16	1516	1864	2104	2419	1749	1930
17	1621	1542	1658	1925	1627	1675
18	1811	1606	1624	1693	1730	1693
19	2024	1779	1755	1735	1909	1840
20	2237	1993	1945	1894	2120	2038
21	2455	2209	2150	2086	2332	2246
22	2667	2428	2361	2293	2551	2460
23	2864	2638	2570	2500	2742	2663
24	3041	2822	2754	2695	2901	2843
25	3217	2990	2907	2850	3054	3004
26	3388	3161	3060	3003	3209	3164
27	3563	3327	3209	3153	3356	3322
28	3726	3495	3357	3307	3506	3478
29	3889	3657	3497	3456	3652	3630
30	4047	3821	3636	3607	3801	3782
31	4208	3972	3775	3748	3940	3929
32	4355	4123	3910	3893	4077	4072
33	4501	4269	4048	4033	4216	4213
34	4638	4413	4181	4166	4348	4349
35	4776	4547	4316	4295	4470	4481
36	4909	4678	4442	4427	4563	4604
37	5049	4806	4561	4542	4635	4719
38	5174	4936	4663	4637	4728	4828
39	5279	5044	4746	4706	4816	4918
40	5373	5133	4822	4789	4906	5005
41	5473	5223	4903	4876	4988	5093
42	5567	5307	4992	4962	5074	5180
43	5663	5386	5076	5039	5123	5257
44	5755	5472	5153	5109	5178	5333
45	5835	5533	5220	5158	5234	5396
46	5902	5597	5282	5213	5297	5458
47	5963	5647	5340	5268	5355	5515
48	6016	5697	5388	5330	5416	5569
49	6058	5741	5442	5388	5471	5620
50	6099	5787	5488	5445	5523	5668

	H	I	J	K	L	M
1	770-26-500	7831				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1432	1461	1483	1477	1421	1455
8	1577	1581	1609	1603	1558	1586
9	1710	1691	1734	1728	1687	1710
10	1831	1800	1850	1852	1819	1830
11	1919	1904	1969	1977	1942	1942
12	1977	2005	2072	2090	2062	2041
13	1979	2084	2126	2187	2163	2108
14	1908	2092	1984	2178	2208	2074
15	1662	1785	1530	1835	1995	1761
16	1460	1512	1474	1487	1491	1485
17	1612	1676	1630	1634	1456	1602
18	1782	1861	1808	1799	1589	1768
19	1948	2050	2003	1991	1754	1949
20	2110	2225	2187	2182	1931	2127
21	2267	2383	2359	2366	2127	2300
22	2438	2531	2504	2523	2311	2461
23	2611	2683	2638	2661	2482	2615
24	2792	2838	2770	2788	2631	2764
25	2967	2991	2906	2918	2783	2913
26	3138	3125	3038	3056	2933	3058
27	3303	3250	3165	3191	3086	3199
28	3462	3361	3278	3314	3222	3327
29	3608	3470	3387	3422	3349	3447
30	3748	3587	3499	3530	3462	3565
31	3875	3715	3620	3650	3576	3687
32	3997	3836	3743	3778	3692	3809
33	4110	3961	3866	3910	3821	3934
34	4231	4082	3979	4039	3948	4056
35	4357	4205	4088	4159	4075	4177
36	4497	4332	4200	4278	4192	4300
37	4633	4466	4324	4399	4307	4426
38	4774	4605	4453	4529	4424	4557
39	4916	4743	4587	4665	4549	4692
40	5066	4873	4716	4796	4681	4826
41	5218	5002	4839	4924	4825	4962
42	5370	5124	4953	5044	4956	5089
43	5515	5246	5063	5160	5088	5214
44	5655	5362	5177	5276	5214	5337
45	5785	5478	5289	5382	5340	5455
46	5905	5574	5385	5464	5465	5559
47	5985	5650	5450	5526	5593	5641
48	6046	5711	5494	5579	5708	5708
49	6120	5783	5532	5603	5810	5770
50	6202	5858	5571	5611	5887	5826

	N	O	P	Q	R	S
1	770-26-1000	8500				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1410	1480	1434	1427	1558	1462
8	1576	1653	1611	1568	1722	1626
9	1743	1828	1791	1712	1886	1792
10	1901	2010	1975	1862	2048	1959
11	2061	2190	2155	2012	2205	2125
12	2208	2364	2325	2158	2347	2280
13	2322	2523	2470	2299	2472	2417
14	2323	2641	2514	2439	2562	2496
15	1915	2566	2113	2555	2520	2334
16	1421	2012	1583	2548	2077	1928
17	1515	1577	1492	2132	1655	1674
18	1686	1569	1574	1663	1642	1627
19	1879	1705	1730	1605	1777	1739
20	2071	1895	1925	1704	1947	1908
21	2259	2112	2136	1850	2134	2098
22	2438	2332	2353	2024	2325	2294
23	2615	2554	2566	2208	2513	2491
24	2786	2771	2774	2404	2685	2684
25	2959	2976	2975	2597	2820	2865
26	3126	3174	3168	2785	2930	3037
27	3289	3363	3340	2943	3029	3193
28	3439	3538	3485	3082	3121	3333
29	3583	3689	3623	3213	3205	3463
30	3720	3838	3752	3343	3293	3589
31	3856	3979	3883	3473	3381	3714
32	3989	4120	4018	3611	3472	3842
33	4125	4265	4163	3758	3567	3976
34	4266	4414	4307	3909	3667	4113
35	4425	4562	4448	4054	3776	4253
36	4586	4710	4589	4199	3902	4397
37	4747	4855	4740	4343	4042	4545
38	4905	5007	4893	4491	4187	4697
39	5066	5155	5053	4642	4337	4851
40	5222	5310	5210	4799	4494	5007
41	5380	5464	5368	4948	4650	5162
42	5531	5618	5525	5100	4808	5316
43	5685	5774	5681	5253	4961	5471
44	5836	5935	5838	5402	5118	5626
45	5988	6094	5999	5556	5268	5781
46	6136	6254	6155	5702	5419	5933
47	6290	6413	6310	5839	5564	6083
48	6440	6569	6448	5960	5705	6224
49	6597	6701	6549	6049	5833	6346
50	6744	6815	6617	6121	5935	6446

	T	U	V	W	X	Y
1	770-26-1500	8019				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1432	1475	1406	1436	1493	1448
8	1649	1668	1602	1623	1684	1645
9	1862	1859	1798	1816	1876	1842
10	2057	2051	1996	2002	2065	2034
11	2264	2242	2189	2193	2254	2228
12	2461	2431	2385	2375	2437	2418
13	2663	2619	2572	2564	2625	2609
14	2856	2808	2762	2744	2804	2795
15	3056	2998	2946	2929	2975	2981
16	3242	3184	3120	3103	3120	3154
17	3421	3359	3273	3267	3254	3315
18	3565	3510	3417	3400	3370	3452
19	3687	3640	3551	3532	3495	3581
20	3812	3771	3692	3664	3619	3712
21	3954	3909	3835	3801	3751	3850
22	4094	4046	3985	3932	3874	3986
23	4245	4185	4131	4074	3994	4126
24	4380	4317	4273	4207	4109	4257
25	4522	4449	4403	4349	4234	4391
26	4658	4582	4539	4491	4356	4525
27	4802	4720	4669	4641	4488	4664
28	4945	4856	4804	4785	4624	4803
29	5093	4997	4942	4938	4766	4947
30	5240	5144	5083	5079	4905	5090
31	5395	5299	5221	5231	5051	5239
32	5547	5449	5363	5382	5195	5387
33	5701	5604	5501	5537	5344	5537
34	5826	5755	5640	5681	5486	5678
35	5935	5902	5777	5836	5626	5815
36	6028	6028	5912	5976	5759	5941
37	6123	6141	6031	6123	5894	6062
38	6211	6229	6132	6260	6006	6168
39	6305	6315	6212	6391	6102	6265
40	6395	6395	6294	6494	6180	6352
41	6489	6470	6369	6597	6266	6438
42	6565	6530	6438	6685	6343	6512
43	6643	6583	6483	6775	6396	6576
44	6701	6622	6509	6840	6426	6620
45	6751	6660	6518	6888	6465	6656
46	6784	6672	6514	6902	6482	6671
47	6819	6689	6490	6904	6497	6680
48	6842	6712	6482	6871	6499	6681
49	6875	6752	6485	6853	6507	6694
50	6883	6789	6505	6828	6519	6705

	Z	AA	AB	AC	AD	AE
1	770-26-2000	11804				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1485	1491	1429	1502	1400	1461
8	1652	1647	1603	1666	1505	1615
9	1840	1827	1792	1843	1689	1798
10	2032	2012	1983	2022	1874	1985
11	2230	2206	2172	2209	2066	2177
12	2427	2404	2367	2393	2249	2368
13	2626	2606	2560	2585	2437	2563
14	2824	2806	2759	2773	2623	2757
15	3025	3010	2948	2963	2815	2952
16	3218	3209	3146	3152	3002	3145
17	3405	3411	3337	3344	3192	3338
18	3576	3611	3536	3532	3375	3526
19	3732	3811	3730	3721	3558	3710
20	3875	4000	3922	3891	3717	3881
21	4012	4184	4094	4044	3861	4039
22	4144	4357	4260	4180	3991	4186
23	4285	4523	4408	4314	4119	4330
24	4427	4673	4553	4443	4245	4468
25	4573	4812	4684	4583	4378	4606
26	4713	4948	4822	4721	4510	4743
27	4856	5094	4957	4861	4649	4883
28	4997	5236	5103	5001	4783	5024
29	5136	5380	5246	5144	4925	5166
30	5273	5533	5391	5281	5055	5307
31	5406	5683	5537	5420	5194	5448
32	5543	5833	5686	5559	5331	5590
33	5685	5987	5827	5702	5475	5735
34	5819	6143	5977	5844	5614	5879
35	5960	6309	6124	5991	5761	6029
36	6104	6467	6278	6135	5899	6177
37	6255	6629	6428	6283	6051	6329
38	6407	6789	6583	6426	6197	6480
39	6558	6953	6738	6574	6350	6635
40	6706	7109	6899	6719	6493	6785
41	6854	7270	7053	6868	6642	6937
42	7003	7427	7214	7019	6788	7090
43	7155	7584	7369	7171	6942	7244
44	7306	7735	7533	7318	7087	7396
45	7459	7887	7689	7468	7233	7547
46	7611	8027	7848	7622	7372	7696
47	7764	8159	8002	7784	7518	7845
48	7905	8274	8160	7940	7653	7986
49	8038	8387	8302	8104	7794	8125
50	8154	8493	8450	8263	7927	8257

	AF	AG	AH	AI	AJ	AK
1	770-26-2000B	7910				
2						
3						
4	0.0005					
5	1.11E-06					
6	Single Action	Single Action	Single Action	Single Action	Single Action	
7	1515	1529	1404	1465	1485	1480
8	1711	1719	1530	1642	1621	1645
9	1895	1905	1700	1823	1779	1820
10	2074	2088	1877	1999	1940	1996
11	2255	2266	2051	2182	2115	2174
12	2438	2450	2234	2362	2290	2355
13	2626	2631	2417	2549	2470	2539
14	2805	2813	2605	2729	2645	2719
15	2964	2995	2784	2907	2824	2895
16	3104	3177	2963	3065	2993	3060
17	3225	3342	3121	3218	3151	3211
18	3349	3512	3277	3365	3295	3360
19	3473	3669	3423	3514	3443	3504
20	3604	3822	3571	3651	3581	3646
21	3730	3964	3705	3786	3716	3780
22	3851	4110	3841	3917	3841	3912
23	3970	4249	3971	4050	3966	4041
24	4094	4393	4105	4182	4089	4173
25	4216	4534	4237	4320	4220	4305
26	4346	4673	4371	4448	4344	4436
27	4465	4810	4503	4583	4476	4567
28	4587	4945	4639	4714	4600	4697
29	4705	5079	4771	4845	4738	4828
30	4829	5215	4910	4980	4869	4961
31	4949	5344	5040	5117	5007	5091
32	5071	5474	5178	5247	5140	5222
33	5172	5587	5308	5378	5277	5344
34	5252	5679	5433	5495	5401	5452
35	5316	5758	5533	5589	5509	5541
36	5391	5843	5611	5661	5578	5617
37	5470	5923	5681	5736	5653	5693
38	5558	6017	5755	5804	5736	5774
39	5641	6106	5823	5890	5815	5855
40	5725	6194	5917	5972	5883	5938
41	5803	6274	6008	6052	5946	6017
42	5870	6347	6091	6125	5997	6086
43	5930	6411	6159	6202	6073	6155
44	5990	6477	6228	6275	6141	6222
45	6032	6503	6267	6333	6195	6266
46	6057	6463	6274	6328	6166	6258
47	6054	6421	6219	6224	6092	6202
48	6017	6423	6190	6178	6054	6172
49	5965	6460	6186	6188	6077	6175
50	6002	6518	6217	6213	6103	6211

	B	C	D	E	F	G
51	6143	5827	5534	5500	5568	5714
52	6199	5881	5585	5563	5609	5767
53	6253	5929	5632	5618	5654	5817
54	6296	5983	5676	5668	5702	5865
55	6328	6033	5712	5717	5740	5906
56	6367	6078	5745	5768	5795	5951
57	6412	6119	5799	5810	5845	5997
58	6441	6156	5848	5852	5899	6039
59	6486	6188	5900	5896	5954	6085
60	6516	6229	5946	5962	6021	6135
61	6551	6273	6003	6014	6082	6185
62	6591	6333	6057	6067	6151	6240
63	6641	6382	6115	6122	6212	6294
64	6692	6435	6158	6185	6253	6345
65	6741	6481	6211	6245	6299	6395
66	6798	6533	6271	6306	6360	6454
67	6863	6576	6331	6360	6417	6509
68	6917	6630	6387	6421	6485	6568
69	6970	6685	6443	6482	6560	6628
70	7026	6753	6495	6547	6629	6690
71	7088	6807	6555	6602	6676	6746
72	7145	6870	6622	6673	6731	6808
73	7196	6932	6686	6738	6781	6867
74	7235	6992	6754	6804	6839	6925
75	7283	7061	6827	6860	6900	6986
76	7327	7140	6898	6917	6952	7047
77	7384	7206	6966	6970	6988	7103
78	7427	7262	7014	7024	7034	7152
79	7473	7314	7061	7077	7086	7202
80	7513	7380	7116	7133	7140	7256
81	7553	7437	7165	7176	7182	7303
82	7593	7483	7222	7214	7224	7347
83	7640	7507	7276	7253	7258	7387
84	7682	7552	7312	7297	7293	7427
85	7728	7593	7337	7321	7315	7459
86	7772	7646	7371	7346	7354	7498
87	7832	7686	7420	7373	7395	7541
88	7869	7727	7466	7410	7428	7580
89	7897	7744	7506	7441	7448	7607
90	7925	7762	7541	7465	7460	7631
91	7950	7766	7575	7481	7452	7645
92	7955	7798	7600	7480	7426	7652
93	7956	7827	7614	7468	7375	7648
94	7948	7829	7595	7439	7317	7626
95	7909	7791	7543	7350	7096	7538
96	7740	7544	7431	7226	6710	7330
97	7429	7406	7343	7009	1432	6124
98	4132	7265	7212	5060	1470	5028
99	1453	6120	6817	1588	1598	3515
100	1576	1591	1516	1772	1826	1656

	H	I	J	K	L	M
51	6277	5920	5606	5635	5957	5879
52	6343	5953	5629	5652	6014	5918
53	6391	5961	5642	5675	6048	5943
54	6416	5950	5647	5716	6042	5954
55	6402	5965	5668	5757	6029	5964
56	6386	5989	5690	5804	6016	5977
57	6408	6005	5714	5840	6017	5997
58	6468	6011	5731	5870	6038	6024
59	6522	6033	5742	5889	6076	6052
60	6567	6050	5748	5908	6125	6080
61	6582	6101	5743	5916	6168	6102
62	6601	6167	5760	5912	6198	6128
63	6634	6216	5796	5902	6234	6156
64	6676	6263	5826	5907	6273	6189
65	6710	6318	5851	5930	6314	6225
66	6744	6363	5878	5975	6348	6262
67	6775	6398	5923	6021	6375	6298
68	6827	6421	5985	6065	6390	6338
69	6883	6448	6056	6110	6409	6381
70	6948	6475	6125	6167	6437	6430
71	7008	6513	6195	6229	6479	6485
72	7059	6566	6258	6289	6516	6538
73	7093	6629	6324	6350	6569	6593
74	7131	6676	6384	6411	6631	6647
75	7168	6743	6445	6473	6705	6707
76	7219	6812	6483	6539	6775	6766
77	7256	6890	6518	6600	6844	6822
78	7294	6959	6545	6647	6908	6871
79	7333	7028	6582	6685	6976	6921
80	7383	7094	6625	6722	7035	6972
81	7424	7163	6667	6761	7098	7023
82	7476	7217	6706	6808	7160	7073
83	7528	7271	6744	6857	7224	7125
84	7595	7317	6781	6901	7274	7174
85	7657	7362	6824	6952	7332	7225
86	7726	7393	6838	7005	7395	7271
87	7784	7429	6852	7066	7469	7320
88	7827	7471	6892	7115	7532	7367
89	7855	7520	6939	7165	7598	7415
90	7905	7567	6994	7223	7651	7468
91	7957	7628	7060	7272	7710	7525
92	8013	7665	7121	7312	7765	7575
93	8060	7708	7180	7342	7820	7622
94	8115	7739	7231	7375	7882	7668
95	8171	7774	7275	7409	7944	7715
96	8230	7806	7313	7427	7989	7753
97	8276	7849	7354	7424	8039	7788
98	8325	7874	7402	7400	8082	7817
99	8351	7897	7439	7345	8122	7831
100	8369	7910	7462	7281	8129	7830

	N	O	P	Q	R	S
51	6893	6923	6699	6199	5990	6541
52	7009	7044	6794	6279	6019	6629
53	7107	7157	6898	6365	5996	6705
54	7201	7264	6992	6442	5966	6773
55	7309	7360	7084	6493	5970	6843
56	7414	7454	7162	6503	6008	6908
57	7510	7550	7216	6512	6009	6959
58	7580	7650	7205	6500	5993	6986
59	7600	7729	7177	6507	5998	7002
60	7486	7793	7179	6514	6029	7000
61	7351	7805	7205	6538	6064	6993
62	7316	7770	7236	6569	6099	6998
63	7393	7745	7292	6602	6111	7029
64	7469	7759	7347	6636	6130	7068
65	7499	7727	7405	6682	6154	7093
66	7500	7686	7444	6727	6207	7113
67	7566	7639	7434	6773	6260	7134
68	7623	7593	7410	6805	6314	7149
69	7651	7573	7436	6837	6367	7173
70	7668	7594	7483	6875	6431	7210
71	7733	7633	7526	6928	6499	7264
72	7809	7708	7576	6991	6578	7332
73	7861	7761	7639	7061	6644	7393
74	7887	7816	7724	7132	6713	7454
75	7967	7891	7817	7193	6785	7531
76	8080	7985	7888	7240	6861	7611
77	8197	8074	7937	7283	6914	7681
78	8309	8174	7985	7316	6973	7751
79	8415	8270	8015	7349	7013	7812
80	8443	8352	8041	7409	7050	7859
81	8331	8415	8083	7479	7091	7880
82	8321	8478	8094	7518	7134	7909
83	8465	8520	8097	7551	7167	7960
84	8588	8546	8134	7573	7171	8002
85	8635	8549	8147	7587	7173	8018
86	8504	8554	8090	7623	7219	7998
87	8431	8548	8069	7680	7271	8000
88	8528	8556	8099	7742	7314	8048
89	8609	8553	8154	7791	7352	8092
90	8633	8556	8206	7834	7412	8128
91	8655	8558	8254	7891	7475	8167
92	8641	8570	8275	7954	7532	8194
93	8609	8575	8305	8017	7575	8216
94	8606	8604	8347	8085	7622	8253
95	8623	8634	8412	8146	7672	8297
96	8653	8681	8482	8208	7730	8351
97	8709	8731	8538	8262	7783	8405
98	8766	8773	8568	8296	7829	8446
99	8818	8819	8604	8319	7838	8480
100	8878	8861	8625	8330	7807	8500

	T	U	V	W	X	Y
51	6890	6827	6524	6826	6534	6720
52	6890	6850	6549	6827	6555	6734
53	6896	6875	6551	6863	6603	6758
54	6894	6896	6569	6909	6641	6782
55	6902	6920	6583	6957	6685	6809
56	6910	6952	6612	6994	6721	6838
57	6923	6995	6641	7047	6762	6874
58	6924	7031	6672	7088	6790	6901
59	6927	7063	6688	7129	6829	6927
60	6920	7091	6707	7150	6862	6946
61	6929	7125	6735	7172	6901	6972
62	6946	7145	6785	7183	6936	6999
63	6969	7152	6834	7194	6979	7026
64	6990	7136	6889	7214	7007	7047
65	7026	7103	6933	7244	7040	7069
66	7065	7053	6983	7269	7056	7085
67	7111	7018	7027	7308	7051	7103
68	7137	7006	7076	7317	7022	7112
69	7164	7016	7102	7324	7002	7122
70	7189	7021	7123	7317	6978	7126
71	7218	7022	7141	7322	6987	7138
72	7233	7024	7182	7311	6993	7149
73	7257	7053	7212	7302	7004	7166
74	7277	7093	7239	7298	7005	7182
75	7316	7146	7268	7309	7022	7212
76	7367	7212	7312	7324	7052	7253
77	7431	7280	7354	7362	7099	7305
78	7488	7345	7410	7408	7139	7358
79	7568	7417	7466	7457	7188	7419
80	7644	7488	7531	7491	7235	7478
81	7730	7563	7580	7538	7295	7541
82	7803	7632	7628	7589	7352	7601
83	7886	7705	7664	7649	7426	7666
84	7966	7773	7708	7693	7495	7727
85	8053	7837	7745	7749	7565	7790
86	8120	7893	7785	7797	7624	7844
87	8186	7952	7813	7839	7689	7896
88	8228	8000	7826	7867	7732	7931
89	8268	8046	7814	7899	7772	7960
90	8286	8088	7807	7919	7801	7980
91	8302	8127	7800	7948	7833	8002
92	8303	8151	7805	7974	7860	8019
93	8272	8142	7811	7978	7873	8015
94	8103	8014	7775	7894	7804	7918
95	4173	4712	7405	4900	6377	5513
96	1406	1575	1475	1483	1501	1488
97	1597	1765	1513	1619	1639	1627
98	1785	1946	1698	1781	1785	1799
99	1976	2093	1860	1972	1960	1972
100	2156	2224	2009	2171	2148	2142

	Z	AA	AB	AC	AD	AE
51	8256	8597	8589	8420	8071	8387
52	8350	8694	8730	8559	8208	8508
53	8444	8792	8854	8682	8356	8626
54	8542	8890	8974	8789	8486	8736
55	8646	8989	9069	8895	8606	8841
56	8752	9080	9154	8991	8697	8935
57	8859	9170	9220	9092	8791	9026
58	8955	9251	9302	9186	8874	9114
59	9054	9325	9377	9287	8974	9203
60	9144	9389	9437	9371	9068	9282
61	9223	9444	9463	9452	9169	9350
62	9294	9499	9500	9506	9251	9410
63	9361	9557	9538	9514	9331	9460
64	9431	9621	9595	9460	9391	9500
65	9514	9700	9643	9414	9447	9544
66	9601	9782	9690	9428	9491	9598
67	9690	9866	9739	9486	9533	9663
68	9773	9952	9782	9550	9562	9724
69	9858	10059	9816	9637	9612	9796
70	9935	10162	9869	9729	9647	9868
71	10022	10260	9932	9826	9695	9947
72	10123	10357	10031	9917	9738	10033
73	10222	10465	10137	10013	9807	10129
74	10308	10567	10257	10102	9875	10222
75	10399	10666	10366	10195	9961	10317
76	10491	10752	10473	10279	10048	10409
77	10585	10840	10571	10364	10133	10499
78	10669	10919	10663	10457	10188	10579
79	10743	10996	10746	10561	10247	10659
80	10788	11067	10840	10660	10299	10731
81	10823	11148	10934	10764	10370	10808
82	10857	11235	11026	10876	10447	10888
83	10890	11331	11110	10997	10534	10972
84	10926	11422	11197	11106	10607	11052
85	10959	11507	11275	11209	10694	11129
86	10993	11577	11366	11288	10768	11198
87	11049	11638	11443	11350	10843	11265
88	11111	11694	11521	11398	10898	11324
89	11182	11753	11572	11455	10947	11382
90	11264	11809	11623	11509	10973	11436
91	11356	11868	11671	11552	11015	11492
92	11453	11920	11718	11573	11062	11545
93	11545	11968	11755	11601	11125	11599
94	11626	12001	11797	11621	11187	11646
95	11697	12036	11825	11653	11276	11697
96	11747	12046	11860	11699	11363	11743
97	11786	12044	11881	11744	11451	11781
98	11813	12020	11872	11766	11525	11799
99	11839	11986	11821	11772	11601	11804
100	11841	11968	11736	11720	11643	11782

	AF	AG	AH	AI	AJ	AK
51	6055	6576	6249	6250	6134	6253
52	6100	6644	6296	6300	6184	6305
53	6140	6705	6347	6357	6250	6360
54	6188	6762	6398	6399	6299	6409
55	6243	6808	6448	6435	6347	6456
56	6297	6868	6509	6487	6375	6507
57	6355	6922	6562	6541	6425	6561
58	6396	6977	6623	6572	6461	6606
59	6446	7017	6662	6614	6511	6650
60	6514	7065	6724	6680	6557	6708
61	6568	7105	6786	6754	6606	6764
62	6607	7131	6836	6817	6641	6806
63	6640	7140	6872	6884	6683	6844
64	6683	7169	6915	6931	6734	6886
65	6734	7209	6950	6968	6813	6935
66	6805	7245	7005	7020	6885	6992
67	6869	7274	7048	7085	6958	7047
68	6946	7329	7107	7148	7001	7106
69	7021	7363	7159	7216	6981	7148
70	7102	7384	7216	7264	6963	7186
71	7167	7410	7245	7298	6989	7222
72	7226	7459	7249	7307	6921	7232
73	7285	7500	7216	7253	6933	7237
74	7330	7553	7239	7249	7020	7278
75	7355	7581	7277	7287	7100	7320
76	7401	7623	7326	7279	7140	7354
77	7355	7676	7382	7128	7185	7345
78	7333	7750	7444	7212	7225	7393
79	7407	7823	7499	7307	7284	7464
80	7492	7870	7564	7386	7335	7529
81	7573	7879	7602	7458	7389	7580
82	7660	7901	7636	7509	7424	7626
83	7736	7928	7348	7548	7464	7605
84	7820	7972	7324	7590	7505	7642
85	7889	8016	7429	7640	7379	7671
86	7953	7637	7528	7688	7320	7625
87	8005	7588	7588	7722	7407	7662
88	8069	7714	7639	7740	7466	7726
89	8129	7811	7676	7785	7523	7785
90	8188	7886	7722	7836	7557	7838
91	8236	7933	7787	7897	7605	7892
92	8258	7995	7860	7791	7646	7910
93	8235	8054	7889	7446	7680	7861
94	7605	8074	7911	7544	7703	7767
95	7392	8050	7905	7603	7721	7734
96	7554	8011	7891	7633	7749	7768
97	7626	7910	7860	7635	7752	7757
98	7657	7782	7568	7626	7657	7658
99	7688	7435	6951	7521	5460	7011
100	7658	1559	2028	5257	1502	3601

	B	C	D	E	F	G
101	1839	1808	1765	1913	1963	1858
102	2025	1966	1926	2059	2108	2017
103	2173	2129	2089	2245	2275	2182
104	2314	2305	2262	2443	2467	2358
105	2507	2522	2470	2648	2659	2561
106	2718	2736	2682	2819	2829	2757
107	2924	2923	2870	2976	2983	2935
108	3097	3081	3031	3143	3124	3095
109	3241	3245	3196	3336	3302	3264
110	3411	3434	3387	3537	3491	3452
111	3602	3637	3596	3735	3686	3651
112	3800	3834	3796	3894	3850	3835
113	3967	4007	3970	4047	3997	3998
114	4125	4154	4124	4223	4151	4155
115	4271	4331	4290	4419	4339	4330
116	4455	4525	4485	4608	4535	4522
117	4655	4716	4684	4770	4711	4707
118	4841	4876	4854	4904	4847	4864
119	4980	5002	4988	5054	4994	5004
120	5111	5136	5128	5225	5160	5152
121	5270	5303	5293	5403	5343	5322
122	5446	5458	5462	5550	5508	5485
123	5616	5600	5602	5678	5644	5628
124	5760	5720	5720	5812	5782	5759
125	5891	5878	5859	5978	5950	5911
126	6073	6079	6033	6151	6133	6094
127	6281	6281	6221	6317	6315	6283
128	6484	6461	6405	6474	6475	6460
129	6641	6591	6551	6612	6636	6606
130	6731	6664	6631	6699	6798	6705
131	6812	6750	6715	6794	6912	6797
132	6908	6841	6809	6881	7010	6890
133	7000	6934	6902	6965	7108	6982
134	7088	7017	6989	7045	7194	7067
135	7162	7098	7072	7133	7283	7150
136	7237	7175	7154	7216	7366	7230
137	7313	7265	7241	7309	7458	7317
138	7393	7353	7333	7394	7552	7405
139	7467	7435	7421	7473	7639	7487
140	7543	7511	7498	7546	7703	7560
141	7611	7586	7575	7625	7769	7633
142	7677	7659	7654	7706	7838	7707
143	7750	7742	7737	7794	7916	7788
144	7829	7820	7825	7868	7987	7866
145	7901	7897	7906	7942	8049	7939
146	7967	7962	7982	8019	8109	8008
147	8033	8038	8063	8110	8186	8086
148	8116	8120	8148	8194	8266	8169
149	8197	8206	8231	8270	8343	8249
150	8275	8281	8313	8344	8406	8324

	H	I	J	K	L	M
101	8366	7928	7471	7202	8143	7822
102	8356	7915	7461	7129	8128	7798
103	8330	7895	7434	7062	8068	7758
104	8310	7843	7404	6915	7968	7688
105	8284	7790	7341	3421	7872	6942
106	8167	7656	7204	1604	7822	6491
107	6906	7419	6824	1874	7761	6157
108	1599	2601	1432	2042	7587	3052
109	1863	1523	1523	2089	4401	2280
110	2097	1705	1706	2103	1521	1826
111	2273	1761	1717	2207	1623	1916
112	2308	1775	1706	2408	1641	1968
113	2300	1811	1794	2629	1631	2033
114	2454	1964	1977	2827	1765	2197
115	2682	2232	2247	2976	2019	2431
116	2939	2483	2485	3032	2282	2644
117	3174	2628	2579	3089	2444	2783
118	3290	2653	2571	3211	2496	2844
119	3302	2692	2630	3403	2497	2905
120	3420	2830	2788	3601	2587	3045
121	3623	3049	3002	3779	2776	3246
122	3840	3258	3206	3859	2989	3430
123	4048	3445	3376	3902	3180	3590
124	4206	3562	3462	4009	3317	3711
125	4272	3611	3501	4176	3355	3783
126	4346	3680	3580	4355	3392	3871
127	4479	3827	3738	4512	3496	4010
128	4666	4025	3935	4609	3681	4183
129	4870	4226	4121	4669	3863	4350
130	5045	4376	4235	4736	4021	4483
131	5123	4425	4255	4842	4081	4545
132	5170	4474	4307	4975	4105	4606
133	5274	4598	4435	5101	4183	4718
134	5440	4763	4595	5187	4333	4864
135	5614	4928	4755	5219	4497	5003
136	5753	5038	4865	5248	4640	5109
137	5826	5100	4922	5314	4719	5176
138	5867	5141	4969	5416	4760	5231
139	5947	5210	5046	5522	4808	5307
140	6061	5304	5154	5604	4900	5405
141	6197	5425	5277	5650	5015	5513
142	6325	5536	5375	5689	5129	5611
143	6411	5612	5434	5750	5202	5682
144	6449	5641	5456	5831	5234	5722
145	6490	5685	5505	5926	5258	5773
146	6566	5769	5603	6008	5323	5854
147	6681	5888	5727	6065	5415	5955
148	6790	5997	5829	6098	5522	6047
149	6866	6071	5892	6136	5606	6114
150	6893	6107	5923	6200	5657	6156

	N	O	P	Q	R	S
101	8947	8861	8615	8319	7759	8500
102	8985	8803	8599	8297	7709	8479
103	8976	8741	8584	8276	7676	8451
104	8929	8645	8505	8239	7637	8391
105	8869	8233	8078	8132	7509	8164
106	8670	2218	1521	7515	3526	4690
107	7272	1460	1452	1401	1484	2614
108	1450	1552	1608	1602	1624	1567
109	1568	1705	1791	1774	1716	1711
110	1737	1886	1953	1903	1832	1862
111	1923	2044	2067	2010	1977	2004
112	2123	2148	2155	2117	2100	2129
113	2276	2216	2234	2228	2201	2231
114	2413	2285	2321	2328	2269	2323
115	2574	2395	2440	2431	2334	2435
116	2755	2554	2591	2563	2448	2582
117	2947	2712	2720	2671	2591	2728
118	3113	2836	2817	2800	2743	2862
119	3247	2938	2932	2958	2867	2988
120	3374	3051	3081	3115	2962	3117
121	3528	3195	3237	3241	3061	3252
122	3706	3350	3356	3339	3178	3386
123	3882	3472	3451	3450	3302	3511
124	4028	3564	3553	3588	3397	3626
125	4164	3670	3681	3707	3476	3740
126	4310	3795	3793	3799	3562	3852
127	4478	3921	3878	3882	3668	3965
128	4622	4014	3949	3986	3760	4066
129	4749	4095	4035	4090	3831	4160
130	4861	4183	4120	4163	3892	4244
131	4977	4277	4185	4212	3964	4323
132	5082	4347	4232	4268	4035	4393
133	5184	4412	4289	4337	4107	4466
134	5266	4477	4351	4405	4169	4534
135	5363	4559	4422	4464	4227	4607
136	5463	4639	4487	4511	4291	4678
137	5566	4717	4550	4563	4361	4751
138	5650	4788	4612	4612	4431	4819
139	5735	4859	4692	4663	4500	4890
140	5805	4939	4771	4720	4561	4959
141	5887	5026	4855	4771	4622	5032
142	5970	5103	4935	4814	4686	5102
143	6056	5185	5010	4862	4756	5174
144	6134	5257	5082	4922	4826	5244
145	6206	5330	5159	4983	4898	5315
146	6275	5402	5231	5055	4962	5385
147	6364	5480	5308	5122	5029	5461
148	6451	5554	5377	5191	5098	5534
149	6545	5625	5442	5259	5168	5608
150	6624	5690	5507	5330	5232	5677

	T	U	V	W	X	Y
101	2315	2382	2192	2320	2298	2301
102	2454	2566	2386	2446	2414	2453
103	2615	2738	2554	2582	2536	2605
104	2798	2869	2677	2750	2688	2756
105	2979	2986	2809	2897	2832	2901
106	3114	3117	2960	3017	2949	3031
107	3236	3262	3111	3115	3039	3153
108	3360	3390	3232	3226	3143	3270
109	3508	3496	3330	3337	3249	3384
110	3643	3592	3433	3441	3346	3491
111	3761	3703	3550	3526	3427	3593
112	3859	3814	3654	3608	3499	3687
113	3970	3922	3746	3681	3565	3777
114	4080	4014	3818	3758	3633	3861
115	4184	4096	3892	3834	3701	3941
116	4263	4174	3967	3917	3776	4019
117	4344	4261	4049	3985	3847	4097
118	4424	4345	4128	4055	3913	4173
119	4514	4430	4208	4123	3977	4250
120	4600	4500	4273	4206	4056	4327
121	4691	4574	4342	4283	4134	4405
122	4765	4647	4413	4356	4206	4477
123	4840	4731	4500	4412	4262	4549
124	4913	4815	4575	4483	4331	4623
125	4999	4893	4642	4557	4401	4698
126	5081	4957	4708	4638	4481	4773
127	5155	5032	4786	4702	4552	4845
128	5215	5109	4870	4769	4619	4916
129	5282	5188	4951	4838	4687	4989
130	5355	5252	5016	4916	4762	5060
131	5431	5317	5083	4987	4829	5129
132	5494	5383	5153	5060	4898	5198
133	5557	5459	5230	5120	4960	5265
134	5622	5527	5297	5184	5026	5331
135	5700	5596	5363	5247	5092	5400
136	5771	5660	5423	5313	5156	5465
137	5845	5730	5493	5369	5209	5529
138	5909	5798	5557	5430	5271	5593
139	5981	5862	5623	5490	5325	5656
140	6048	5922	5686	5551	5383	5718
141	6121	5987	5752	5603	5435	5780
142	6181	6044	5807	5666	5494	5838
143	6252	6108	5867	5718	5547	5898
144	6313	6166	5922	5777	5604	5956
145	6384	6224	5980	5825	5649	6012
146	6447	6280	6030	5879	5699	6067
147	6518	6335	6083	5930	5749	6123
148	6580	6386	6131	5984	5803	6177
149	6649	6442	6187	6031	5850	6232
150	6708	6495	6239	6084	5898	6285

	Z	AA	AB	AC	AD	AE
101	11772	11955	11651	11645	11674	11739
102	11699	11940	11570	11572	11683	11693
103	11648	11951	11500	11522	11681	11660
104	11619	11965	11458	11472	11668	11636
105	11617	11965	11390	11369	11673	11603
106	11617	11964	11350	11244	11673	11570
107	11588	11957	11333	11172	11677	11545
108	11508	11938	11305	11110	11662	11505
109	11388	11915	11210	11051	11639	11441
110	11147	11885	10838	10866	11569	11261
111	5057	11777	3059	4609	11498	7200
112	1402	7637	1548	1445	11413	4689
113	1512	1477	1491	1450	11246	3435
114	1433	1402	1406	1537	7300	2616
115	1421	1408	1401	1413	1515	1432
116	1403	1633	1402	1446	1401	1457
117	1405	1894	1542	1634	1416	1578
118	1538	2064	1747	1734	1486	1714
119	1748	2208	1867	1806	1622	1850
120	1862	2344	1939	1913	1754	1962
121	1954	2468	2051	2051	1877	2080
122	2069	2622	2181	2198	2049	2224
123	2201	2756	2296	2330	2193	2355
124	2344	2862	2392	2433	2313	2469
125	2472		2472	2527	2404	2469
126	2572	3037	2550	2611	2500	2654
127	2675	3138	2650	2699	2590	2750
128	2774	3236	2740	2781	2678	2842
129	2875	3305	2828	2850	2742	2920
130	2971	3362	2901	2907	2808	2990
131	3049	3435	2978	2978	2876	3063
132	3118	3516	3057	3043	2943	3135
133	3196	3584	3146	3089	2991	3201
134	3270	3635	3203	3133	3022	3253
135	3326	3685	3253	3185	3057	3301
136	3378	3746	3310	3242	3103	3356
137	3432	3808	3379	3301	3149	3414
138	3495	3857	3437	3353	3194	3467
139	3555	3905	3494	3406	3231	3518
140	3607	3949	3543	3455	3266	3564
141	3655	4003	3597	3515	3304	3615
142	3700	4059	3656	3573	3349	3667
143	3757	4115	3720	3638	3391	3724
144	3817	4170	3777	3694	3441	3780
145	3872	4221	3831	3748	3491	3833
146	3925	4273	3881	3802	3545	3885
147	3977	4327	3935	3859	3596	3939
148	4028	4386	3993	3918	3660	3997
149	4081	4445	4056	3978	3718	4056
150	4141	4499	4111	4034	3777	4112

	AF	AG	AH	AI	AJ	AK
101	7454	1435	1418	1509	1404	2644
102	7355	1434	1406	1404	1420	2604
103	7215	1408	1544	1624	1640	2686
104	4233	1529	1744	1863	1802	2234
105	1486	1791	1814	2010	1849	1790
106	1456	1989	1839	2031	1876	1838
107	1541	2059	1916	2057	2000	1915
108	1629	2070	2065	2170	2162	2019
109	1639	2142	2218	2314	2317	2126
110	1687	2268	2353	2444	2447	2240
111	1853	2395	2457	2567	2503	2355
112	2042	2515	2476	2607	2517	2431
113	2201	2592	2506	2617	2582	2500
114	2324	2607	2604	2679	2679	2579
115	2350	2640	2698	2772	2763	2645
116	2372	2734	2780	2835	2847	2714
117	2472	2817	2859	2923	2899	2794
118	2587	2905	2876	2971	2911	2850
119	2691	2978	2899	2983	2952	2901
120	2790	2996	2963	3023	3018	2958
121	2831	3020	3023	3087	3077	3008
122	2850	3091	3078	3133	3128	3056
123	2924	3166	3135	3191	3161	3115
124	3025	3245	3158	3234	3167	3166
125	3114	3324	3169	3247	3192	3209
126	3207	3357	3219	3275	3243	3260
127	3255	3380	3286	3340	3298	3312
128	3267	3443	3350	3408	3353	3364
129	3319	3521	3419	3475	3409	3429
130	3404	3584	3455	3529	3428	3480
131	3489	3651	3470	3547	3456	3523
132	3566	3685	3519	3571	3508	3570
133	3618	3703	3578	3636	3563	3620
134	3634	3752	3636	3704	3615	3668
135	3672	3809	3692	3762	3670	3721
136	3737	3868	3731	3818	3699	3771
137	3800	3938	3748	3846	3727	3812
138	3860	3989	3784	3871	3771	3855
139	3922	4016	3833	3917	3829	3903
140	3945	4061	3895	3979	3885	3953
141	3979	4120	3960	4047	3950	4011
142	4036	4199	4017	4112	3985	4070
143	4105	4278	4042	4153	4013	4118
144	4180	4337	4076	4182	4055	4166
145	4255	4369	4130	4228	4118	4220
146	4291	4408	4195	4288	4179	4272
147	4324	4468	4251	4353	4243	4328
148	4373	4538	4305	4417	4283	4383
149	4448	4605	4332	4456	4315	4431
150	4524	4660	4360	4482	4351	4475

	B	C	D	E	F	G
151	8343	8356	8387	8427	8483	8399
152	8415	8431	8465	8509	8559	8476
153	8493	8518	8552	8594	8642	8560
154	8575	8599	8639	8667	8713	8639
155	8653	8679	8721	8744	8784	8716
156	8726	8748	8799	8819	8855	8789
157	8796	8824	8886	8927	8935	8874
158	8893	8978	9071	9124	9016	9016
159	9090	9193	9288	9327	9183	9216
160	9303	9392	9486	9519	9386	9417
161	9499	9588	9685	9716	9592	9616
162	9698	9775	9883	9912	9789	9811
163	9893	9969	10080	10114	9990	10009
164	10092	10162	10276	10303	10184	10203
165	10283	10354	10468	10494	10376	10395
166	10474	10534	10658	10675	10557	10580
167	10657	10718	10846	10863	10745	10766
168	10843	10901	11031	11051	10931	10951
169	11025	11092	11222	11245	11121	11141
170	11214	11277	11411	11429	11302	11327
171	11397	11469	11599	11614	11483	11512
172	11577	11650	11779	11794	11660	11692
173	11749	11836	11963	11985	11846	11876
174	11927	12019	12146	12171	12031	12059
175	12102	12209	12338	12355	12219	12245
176	12284	12386	12521	12529	12390	12422
177	12451	12564	12702	12713	12568	12600
178	12624	12738	12879	12895	12750	12777
179	12794	12922	13066	13083	12937	12960
180	12976	13102	13254	13260	13118	13142
181	13149	13283	13439	13440	13300	13322
182	13324	13452	13614	13617	13474	13496
183	13486	13631	13791	13802	13658	13674
184	13666	13808	13973	13980	13840	13853
185	13835	13991	14155	14160	14021	14032
186	14010	14161	14333	14332	14196	14206
187	14173	14335	14512	14513	14373	14381
188	14344	14504	14689	14689	14547	14555
189	14507	14681	14868	14868	14724	14730
190	14679	14849	15042	15042	14893	14901
191	14841	15026	15217	15218	15071	15075
192	15015	15196	15390	15387	15241	15246
193	15175	15370	15564	15560	15417	15417
194	15342	15535	15737	15729	15583	15585
195	15501	15705	15912	15902	15754	15755
196	15668	15870	16083	16072	15923	15923
197	15828	16045	16255	16245	16092	16093
198	15995	16209	16423	16407	16251	16257
199	16151	16377	16596	16577	16418	16424
200	16313	16541	16763	16741	16582	16588

	H	I	J	K	L	M
151	6931	6150	5968	6286	5687	6204
152	6993	6216	6040	6371	5739	6272
153	7056	6307	6133	6429	5814	6348
154	7109	6393	6223	6462	5909	6419
155	7163	6473	6301	6495	5989	6484
156	7201	6522	6348	6551	6043	6533
157	7233	6560	6382	6627	6072	6575
158	7262	6601	6430	6703	6107	6621
159	7308	6674	6511	6768	6164	6685
160	7365	6761	6597	6812	6246	6756
161	7428	6846	6675	6853	6327	6826
162	7476	6891	6718	6896	6390	6874
163	7516	6924	6746	6958	6422	6913
164	7547	6962	6787	7031	6456	6957
165	7592	7028	6858	7104	6507	7018
166	7649	7100	6933	7150	6584	7083
167	7708	7164	7002	7181	6657	7142
168	7754	7197	7047	7217	6727	7188
169	7789	7224	7081	7259	6768	7224
170	7821	7252	7115	7300	6807	7259
171	7863	7287	7165	7347	6846	7302
172	7906	7323	7210	7386	6904	7346
173	7956	7377	7254	7419	6974	7396
174	8000	7424	7299	7451	7046	7444
175	8035	7467	7332	7487	7092	7483
176	8058	7493	7355	7530	7127	7513
177	8090	7527	7387	7577	7161	7548
178	8127	7568	7428	7624	7215	7592
179	8173	7623	7483	7664	7272	7643
180	8209	7668	7529	7697	7317	7684
181	8241	7710	7567	7727	7352	7719
182	8266	7742	7598	7763	7385	7751
183	8300	7781	7635	7811	7412	7788
184	8337	7819	7675	7853	7447	7826
185	8381	7865	7721	7888	7489	7869
186	8419	7907	7767	7916	7537	7909
187	8458	7953	7812	7947	7580	7950
188	8489	7984	7847	7983	7622	7985
189	8523	8017	7879	8022	7650	8018
190	8558	8051	7914	8062	7687	8054
191	8600	8095	7956	8103	7726	8096
192	8644	8141	8001	8142	7774	8140
193	8686	8184	8043	8180	7820	8183
194	8724	8214	8077	8217	7860	8218
195	8808	8250	8111	8259	7891	8264
196	8939	8283	8148	8305	7927	8320
197	9078	8328	8191	8351	7965	8383
198	9200	8371	8233	8390	8011	8441
199	9311	8415	8278	8427	8055	8497
200	9406	8453	8316	8465	8098	8548

	N	O	P	Q	R	S
151	6704	5758	5582	5402	5291	5747
152	6788	5827	5651	5469	5349	5817
153	6878	5900	5716	5529	5414	5887
154	6955	5963	5775	5596	5477	5953
155	7031	6027	5841	5663	5535	6019
156	7100	6089	5904	5723	5597	6083
157	7178	6163	5970	5778	5666	6151
158	7252	6236	6029	5836	5735	6218
159	7323	6310	6094	5894	5801	6284
160	7385	6378	6158	5950	5858	6346
161	7457	6452	6224	6000	5915	6410
162	7522	6520	6286	6050	5972	6470
163	7593	6582	6351	6105	6028	6532
164	7651	6637	6408	6159	6077	6586
165	7714	6701	6471	6216	6128	6646
166	7775	6764	6526	6269	6177	6702
167	7839	6821	6583	6321	6228	6758
168	7893	6872	6634	6375	6270	6809
169	7951	6928	6687	6431	6316	6863
170	8007	6978	6735	6483	6359	6912
171	8066	7031	6786	6529	6402	6963
172	8121	7077	6834	6578	6439	7010
173	8176	7123	6880	6622	6481	7056
174	8216	7166	6923	6666	6522	7099
175	8260	7215	6967	6707	6564	7143
176	8305	7255	7005	6749	6601	7183
177	8352	7302	7049	6792	6642	7227
178	8395	7342	7086	6832	6678	7267
179	8443	7389	7129	6872	6717	7310
180	8490	7430	7166	6914	6754	7351
181	8538	7474	7206	6956	6793	7393
182	8582	7516	7239	6995	6829	7432
183	8626	7561	7278	7031	6871	7473
184	8669	7600	7311	7069	6905	7511
185	8719	7640	7348	7109	6942	7552
186	8760	7677	7383	7147	6976	7589
187	8807	7719	7421	7184	7014	7629
188	8848	7754	7454	7219	7049	7665
189	8892	7792	7491	7256	7087	7704
190	8932	7824	7525	7293	7119	7739
191	8979	7862	7565	7330	7155	7778
192	9023	7899	7604	7368	7188	7816
193	9069	7944	7655	7415	7226	7862
194	9110	7994	7711	7469	7278	7912
195	9158	8050	7777	7527	7341	7971
196	9204	8094	7841	7586	7408	8027
197	9250	8142	7913	7648	7485	8088
198	9294	8190	7986	7713	7558	8148
199	9339	8245	8064	7774	7639	8212
200	9381	8298	8136	7839	7716	8274

	T	U	V	W	X	Y
151	6777	6549	6293	6131	5944	6339
152	6839	6602	6337	6186	5994	6392
153	6906	6656	6390	6232	6043	6445
154	6968	6708	6439	6286	6092	6499
155	7034	6763	6496	6331	6134	6552
156	7092	6815	6542	6382	6184	6603
157	7159	6871	6594	6427	6226	6655
158	7221	6919	6639	6477	6278	6707
159	7288	6973	6694	6524	6320	6760
160	7348	7023	6739	6575	6370	6811
161	7415	7075	6791	6622	6413	6863
162	7472	7125	6836	6674	6460	6913
163	7537	7178	6886	6721	6504	6965
164	7597	7227	6934	6777	6554	7018
165	7663	7275	6985	6827	6600	7070
166	7722	7325	7037	6884	6655	7125
167	7784	7378	7091	6935	6708	7179
168	7823	7423	7140	6990	6768	7229
169	7869	7475	7191	7042	6825	7280
170	7909	7525	7240	7100	6883	7331
171	7955	7578	7294	7147	6932	7381
172	8001	7630	7341	7203	6985	7432
173	8048	7683	7392	7255	7033	7482
174	8092	7725	7435	7316	7089	7531
175	8141	7763	7485	7367	7137	7579
176	8180	7799	7529	7421	7186	7623
177	8226	7837	7577	7467	7228	7667
178	8267	7878	7618	7519	7273	7711
179	8319	7925	7662	7561	7307	7755
180	8364	7972	7706	7611	7344	7799
181	8413	8024	7755	7656	7377	7845
182	8452	8069	7795	7707	7421	7889
183	8502	8113	7839	7753	7461	7934
184	8540	8157	7870	7803	7510	7976
185	8580	8203	7908	7842	7574	8021
186	8617	8249	7945	7886	7663	8072
187	8659	8294	7992	7925	7751	8124
188	8695	8333	8038	7980	7846	8178
189	8743	8378	8093	8032	7908	8231
190	8781	8418	8147	8095	7971	8282
191	8828	8467	8205	8154	8033	8337
192	8867	8510	8260	8218	8099	8391
193	8914	8552	8320	8271	8159	8443
194	8954	8592	8372	8331	8223	8494
195	9001	8637	8425	8378	8281	8544
196	9042	8682	8469	8428	8342	8593
197	9087	8728	8515	8471	8394	8639
198	9125	8773	8557	8517	8444	8683
199	9174	8821	8602	8558	8491	8729
200	9223	8867	8645	8606	8540	8776

	Z	AA	AB	AC	AD	AE
151	4200	4549	4169	4087	3827	4166
152	4260	4600	4221	4142	3882	4221
153	4312	4659	4280	4205	3939	4279
154	4367	4718	4336	4263	4001	4337
155	4428	4772	4397	4324	4056	4395
156	4491	4825	4453	4375	4113	4451
157	4548	4876	4510	4432	4166	4506
158	4600	4933	4562	4491	4227	4563
159	4655	4984	4618	4550	4282	4618
160	4711	5038	4674	4603	4341	4673
161	4769	5088	4732	4659	4396	4729
162	4824	5135	4783	4711	4451	4781
163	4878	5186	4838	4771	4503	4835
164	4935	5236	4892	4823	4559	4889
165	4992	5287	4945	4876	4606	4941
166	5046	5334	4996	4929	4661	4993
167	5102	5385	5053	4986	4710	5047
168	5157	5440	5107	5041	4766	5102
169	5212	5490	5165	5094	4813	5155
170	5267	5535	5215	5146	4860	5205
171	5320	5585	5273	5199	4910	5257
172	5371	5641	5327	5254	4965	5312
173	5428	5699	5382	5310	5016	5367
174	5485	5752	5436	5359	5067	5420
175	5542	5804	5489	5412	5114	5472
176	5599	5856	5534	5457	5169	5523
177	5654	5908	5587	5508	5219	5575
178	5712	5962	5633	5556	5271	5627
179	5773	6013	5682	5604	5320	5678
180	5838	6070	5731	5648	5376	5733
181	5908	6123	5786	5694	5426	5787
182	5981	6178	5838	5736	5479	5842
183	6056	6237	5898	5779	5526	5899
184	6128	6304	5962	5822	5579	5959
185	6200	6375	6035	5867	5625	6020
186	6275	6443	6105	5908	5676	6081
187	6350	6509	6177	5955	5721	6142
188	6423	6579	6240	6005	5767	6203
189	6495	6649	6309	6063	5809	6265
190	6574	6725	6375	6119	5856	6330
191	6652	6805	6445	6177	5900	6396
192	6730	6890	6511	6243	5958	6466
193	6812	6981	6583	6318	6024	6544
194	6902	7076	6659	6388	6096	6624
195	6995	7168	6746	6467	6169	6709
196	7085	7263	6831	6541	6245	6793
197	7174	7346	6923	6620	6315	6876
198	7264	7425	7008	6694	6389	6956
199	7356	7499	7100	6773	6456	7037
200	7439	7579	7182	6848	6526	7115

	AF	AG	AH	AI	AJ	AK
151	4598	4686	4403	4521	4405	4523
152	4641	4716	4456	4574	4461	4570
153	4667	4762	4510	4632	4517	4618
154	4709	4819	4564	4686	4558	4667
155	4773	4872	4593	4730	4584	4710
156	4837	4928	4623	4758	4610	4751
157	4904	4958	4659	4790	4659	4794
158	4950	4985	4715	4838	4710	4840
159	4982	5024	4770	4891	4762	4886
160	5016	5078	4827	4943	4800	4933
161	5070	5131	4859	4983	4825	4974
162	5128	5183	4890	5005	4850	5011
163	5189	5214	4927	5034	4894	5052
164	5236	5245	4983	5079	4943	5097
165	5266	5286	5040	5132	4993	5143
166	5295	5340	5102	5183	5031	5190
167	5343	5394	5152	5239	5061	5238
168	5397	5454	5196	5277	5094	5284
169	5459	5502	5240	5320	5144	5333
170	5506	5551	5306	5371	5208	5388
171	5539	5604	5376	5439	5279	5447
172	5569	5674	5455	5508	5335	5508
173	5619	5751	5510	5573	5382	5567
174	5686	5830	5557	5615	5424	5622
175	5767	5890	5604	5658	5480	5680
176	5841	5941	5672	5709	5546	5742
177	5899	5993	5745	5780	5620	5807
178	5949	6067	5827	5850	5680	5875
179	6013	6145	5885	5911	5731	5937
180	6091	6227	5938	5955	5774	5997
181	6180	6291	5990	5995	5832	6058
182	6264	6345	6059	6044	5897	6122
183	6334	6396	6127	6112	5971	6188
184	6387	6467	6210	6182	6035	6256
185	6456	6541	6274	6251	6092	6323
186	6538	6618	6331	6308	6138	6387
187	6633	6677	6377	6357	6196	6448
188	6717	6728	6441	6408	6259	6511
189	6785	6780	6511	6477	6332	6577
190	6836	6853	6594	6548	6397	6646
191	6894	6932	6658	6622	6457	6713
192	6959	7022	6717	6677	6502	6775
193	7042	7090	6766	6722	6559	6836
194	7122	7146	6833	6776	6619	6899
195	7196	7198	6905	6843	6695	6967
196	7254	7262	6985	6929	6763	7039
197	7315	7325	7053	7021	6826	7108
198	7361	7385	7128	7098	6883	7171
199	7419	7436	7195	7170	6958	7236
200	7479	7489	7263	7243	7032	7301

	B	C	D	E	F	G
201	16467	16709	16933	16912	16754	16755
202	16631	16868	17101	17068	16914	16916
203	16783	17032	17268	17229	17076	17078
204	16940	17181	17428	17385	17235	17234
205	17084	17342	17593	17550	17403	17394
206	17236	17496	17755	17706	17563	17551
207	17378	17652	17922	17867	17726	17709
208	17525	17798	18079	18024	17878	17861
209	17659	17952	18237	18185	18036	18014
210	17802	18097	18396	18340	18192	18165
211	17939	18251	18563	18501	18350	18321
212	18084	18396	18722	18652	18503	18471
213	18212	18544	18884	18816	18661	18623
214	18352	18689	19040	18972	18814	18773
215	18482	18841	19205	19135	18973	18927
216	18622	18986	19364	19294	19126	19078
217	18753	19138	19529	19455	19284	19232
218	18893	19286	19685	19613	19439	19383
219	19021	19446	19845	19776	19600	19538
220	19160	19598	20003	19934	19754	19690
221	19288	19755	20164	20098	19914	19844
222	19427	19905	20318	20253	20069	19994
223	19555	20063	20476	20417	20229	20148
224	19697	20217	20629	20575	20386	20301
225	19828	20376	20791	20734	20544	20455
226	19968	20530	20945	20891	20705	20608
227	20097	20689	21108	21055	20867	20763
228	20240	20844	21262	21212	21026	20917
229	20375	21003	21424	21373	21187	21072
230	20522	21161	21581	21530	21344	21228
231	20655	21323	21744	21692	21511	21385
232	20800	21481	21902	21849	21672	21541
233	20932	21644	22069	22012	21835	21698
234	21080	21802	22228	22171	21993	21855
235	21211	21960	22393	22340	22156	22012
236	21356	22119	22557	22502	22315	22170
237	21489	22285	22728	22669	22479	22330
238	21636	22448	22896	22832	22640	22490
239	21770	22618	23069	23000	22807	22653
240	21912	22779	23234	23165	22972	22812
241	22042	22942	23406	23332	23141	22973
242	22187	23101			23306	
243	22321	23261				
244	22470	23416				
245	22605					
246	22752					
247	22887					
248	23035					
249	23170					
250	23317					

	H	I	J	K	L	M
201	9506	8493	8356	8509	8135	8600
202	9603	8531	8389	8553	8171	8649
203	9714	8576	8427	8595	8206	8704
204	9821	8620	8469	8638	8250	8760
205	9931	8671	8514	8680	8293	8818
206	10029	8714	8559	8724	8338	8873
207	10132	8780	8601	8778	8376	8933
208	10234	8921	8640	8910	8415	9024
209	10349	9074	8682	9061	8453	9124
210	10460	9214	8732	9194	8499	9220
211	10576	9353	8830	9313	8541	9323
212	10679	9472	8981	9419	8587	9428
213	10783	9588	9116	9531	8628	9529
214	10885	9692	9241	9642	8670	9626
215	10998	9804	9365	9755	8712	9727
216	11105	9909	9478	9858	8765	9823
217	11216	10024	9598	9957	8877	9934
218	11317	10130	9707	10057	9029	10048
219	11428	10239	9812	10160	9152	10158
220	11530	10337	9910	10265	9264	10261
221	11642	10438	10009	10371	9365	10365
222	11745	10538	10110	10469	9471	10467
223	11859	10652	10220	10569	9577	10575
224	11960	10757	10322	10668	9689	10679
225	12065	10863	10426	10773	9787	10783
226	12164	10961	10522	10884	9883	10883
227	12271	11068	10627	11000	9976	10988
228	12378	11173	10729	11118	10081	11096
229	12492	11286	10839	11237	10183	11207
230	12593	11391	10945	11354	10292	11315
231	12705	11506	11056	11475	10392	11427
232	12809	11617	11160	11599	10496	11536
233	12924	11729	11269	11729	10589	11648
234	13033	11837	11377	11852	10694	11759
235	13149	11954	11492	11979	10797	11874
236	13260	12068	11609	12101	10908	11989
237	13378	12194	11731	12226	11016	12109
238	13487	12308	11843	12345	11134	12223
239	13602	12428	11959	12474	11243	12341
240	13711	12542	12072	12598	11364	12457
241	13827	12667	12194	12726	11481	12579
242	13939	12786	12313	12845	11611	12699
243	14054	12911	12430	12967	11732	12819
244	14160	13027	12544	13085	11863	12936
245	14278	13153	12667	13212	11984	13059
246	14385	13269	12783	13337	12111	13177
247	14505	13390	12906	13463	12233	13299
248	14618	13504	13024	13582	12363	13418
249	14740	13624	13153	13709	12489	13543
250	14854	13744	13276	13829	12618	13664

	N	O	P	Q	R	S
201	9432	8355	8194	7912	7804	8339
202	9482	8408	8248	8001	7896	8407
203	9539	8467	8306	8089	7988	8478
204	9589	8522	8360	8183	8077	8546
205	9638	8578	8418	8261	8168	8613
206	9686	8632	8473	8324	8241	8671
207	9737	8688	8532	8386	8301	8729
208	9787	8743	8585	8448	8362	8785
209	9835	8800	8641	8512	8424	8842
210	9929	8851	8694	8576	8481	8906
211	10078	8911	8748	8636	8544	8983
212	10209	8963	8800	8693	8603	9054
213	10336	9018	8852	8750	8662	9124
214	10454	9073	8904	8806	8717	9191
215	10573	9129	8963	8862	8774	9260
216	10688	9179	9021	8917	8827	9326
217	10805	9233	9079	8972	8882	9394
218	10920	9285	9132	9028	8934	9460
219	11040	9340	9189	9077	8989	9527
220	11158	9389	9245	9131	9039	9592
221	11287	9439	9303	9184	9093	9661
222	11411	9490	9358	9239	9146	9729
223	11538	9580	9415	9289	9201	9805
224	11661	9730	9467	9343	9253	9891
225	11788	9872	9516	9397	9307	9976
226	11909	9997	9578	9449	9358	10058
227	12039	10122	9728	9501	9412	10160
228	12158	10242	9876	9553	9462	10258
229	12285	10367	10011	9651	9515	10366
230	12409	10490	10139	9804	9589	10486
231	12534	10619	10263	9939	9737	10618
232	12656	10742	10386	10066	9876	10745
233	12785	10867	10509	10189	9999	10870
234	12910	10994	10632	10311	10121	10994
235	13040	11122	10756	10432	10246	11119
236	13168	11249	10879	10558	10371	11245
237	13299	11379	11006	10680	10492	11371
238	13428	11502	11129	10802	10616	11495
239	13558	11633	11260	10921	10738	11622
240	13686	11761	11386	11047	10861	11748
241	13826	11890	11516	11172	10988	11878
242	13956	12020	11644	11301	11111	12006
243	14091	12153	11773	11424	11239	12136
244	14221	12286	11899	11552	11365	12265
245	14357	12424	12028	11682	11496	12397
246	14488	12553	12156	11815	11624	12527
247	14621	12690	12289	11946	11753	12660
248	14751	12825	12416	12082	11882	12791
249	14886	12963	12550	12213	12021	12927
250	15012	13094	12685	12346	12147	13057

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201	9279	8915	8693	8648	8587	8824
202	9383	8960	8738	8698	8639	8884
203	9510	9009	8789	8742	8684	8947
204	9622	9056	8837	8793	8732	9008
205	9737	9110	8889	8840	8777	9071
206	9837	9161	8938	8891	8830	9131
207	9946	9237	8992	8935	8875	9197
208	10049	9381	9042	8988	8924	9277
209	10160	9521	9106	9033	8968	9358
210	10264	9648	9241	9149	9021	9465
211	10378	9775	9385	9295	9079	9582
212	10486	9896	9510	9432	9220	9709
213	10606	10017	9637	9551	9359	9834
214	10713	10139	9756	9676	9488	9954
215	10835	10261	9877	9790	9607	10074
216	10949	10383	9994	9915	9729	10194
217	11072	10508	10119	10029	9843	10314
218	11187	10634	10240	10151	9964	10435
219	11312	10758	10366	10270	10077	10557
220	11430	10881	10486	10394	10194	10677
221	11557	11008	10612	10512	10309	10800
222	11673	11130	10730	10642	10434	10922
223	11801	11262	10859	10767	10548	11047
224	11927	11393	10977	10898	10672	11173
225	12061	11523	11106	11025	10790	11301
226	12181	11650	11231	11157	10916	11427
227	12313	11777	11361	11279	11038	11554
228	12437	11905	11483	11413	11165	11681
229	12569	12035	11613	11537	11291	11809
230	12692	12163	11732	11675	11426	11938
231	12825	12294	11860	11804	11550	12067
232	12950	12427	11986	11938	11677	12196
233	13087	12562	12124	12060	11798	12326
234	13213	12700	12254	12193	11926	12457
235	13352	12838	12386	12317	12051	12589
236	13483	12973	12511	12451	12192	12722
237	13622	13107	12644	12582	12316	12854
238	13756	13241	12772	12720	12450	12988
239	13899	13374	12912	12849	12576	13122
240	14028	13516	13049	12991	12722	13261
241	14170	13659	13185	13124	12866	13401
242	14296	13792	13314	13277	13014	13539
243	14437	13930	13451	13419	13152	13678
244	14571	14062	13584	13566	13298	13816
245	14713	14205	13737	13702	13435	13958
246	14843	14354	13879	13847	13585	14102
247	14982	14503	14026	13986	13727	14245
248	15114	14650	14167	14133	13875	14388
249	15257	14799	14313	14268	14019	14531
250	15387	14947	14455	14419	14173	14676

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201	7515	7675	7269	6927	6593	7196
202	7574	7776	7343	7005	6662	7272
203	7624	7876	7412	7088	6724	7345
204	7692	7973	7477	7162	6791	7419
205	7787	8068	7553	7238	6856	7500
206	7883	8163	7626	7307	6928	7581
207	7982	8254	7711	7380	6994	7664
208	8076	8340	7800	7471	7071	7752
209	8172	8423	7896	7575	7160	7845
210	8267	8519	7991	7676	7261	7943
211	8367	8596	8092	7781	7360	8039
212	8463	8662	8185	7879	7456	8129
213	8564	8726	8283	7979	7545	8219
214	8628	8791	8371	8073	7640	8301
215	8682	8856	8469	8175	7732	8383
216	8744	8923	8540	8271	7830	8462
217	8806	8987	8600	8372	7920	8537
218	8867	9052	8658	8467	8020	8613
219	8930	9113	8720	8558	8108	8686
220	8994	9175	8779	8618	8207	8755
221	9060	9235	8843	8677	8298	8823
222	9124	9301	8906	8736	8396	8893
223	9187	9360	8975	8804	8467	8959
224	9251	9421	9036	8864	8531	9021
225	9314	9477	9102	8931	8590	9083
226	9371	9536	9161	8994	8655	9143
227	9433	9588	9223	9062	8714	9204
228	9492	9641	9281	9122	8783	9264
229	9552	9689	9346	9188	8846	9324
230	9611	9741	9405	9253	8913	9385
231	9665	9788	9465	9317	8978	9443
232	9713	9836	9522	9376	9055	9500
233	9763	9883	9579	9435	9121	9556
234	9813	9933	9636	9496	9186	9613
235	9858	9978	9691	9560	9248	9667
236	9905	10030	9745	9615	9314	9722
237	9954	10091	9802	9675	9374	9779
238	10002	10233	9853	9731	9439	9852
239	10051	10382	9906	9788	9500	9925
240	10102	10515	9951	9836	9567	9994
241	10161	10642	10001	9889	9625	10064
242	10296	10762	10049	9939	9686	10146
243	10445	10875	10105	9993	9736	10231
244	10571	10991	10169	10045	9795	10314
245	10693	11107	10316	10099	9844	10412
246	10808	11225	10455	10166	9900	10511
247	10926	11344	10587	10321	9948	10625
248	11037	11467	10702	10475	10004	10737
249	11153	11585	10826	10621	10062	10849
250	11267	11711	10939	10758	10220	10979

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201	7537	7536	7314	7319	7124	7366
202	7581	7590	7378	7375	7202	7425
203	7627	7647	7438	7437	7279	7486
204	7676	7717	7497	7494	7332	7543
205	7739	7778	7545	7546	7379	7597
206	7799	7837	7599	7594	7430	7652
207	7859	7884	7659	7650	7498	7710
208	7906	7927	7731	7715	7560	7768
209	7953	7842	7794	7782	7620	7798
210	8001	7916	7852	7842	7666	7855
211	8064	7990	7901	7894	7721	7914
212	8125	8056	7961	7944	7777	7973
213	8184	8107	8018	8001	7842	8030
214	8230	8162	8007	7981	7901	8056
215	8146	8214	8004	7940	7962	8053
216	8053	8214	8081	8018	8012	8076
217	8145	8206	8142	8090	8062	8129
218	8232	8283	8206	8148	7977	8169
219	8309	8344	8264	8209	7995	8224
220	8373	8406	8323	8265	8078	8289
221	8435	8467	8342	8316	8156	8343
222	8496	8534	8375	8371	8213	8398
223	8542	8594	8426	8428	8272	8452
224	8489	8670	8489	8479	8327	8491
225	8597	8788	8544	8538	8388	8571
226	8740	8914	8605	8593	8431	8657
227	8863	9033	8683	8633	8470	8736
228	8978	9159	8824	8722	8518	8840
229	9102	9274	8943	8860	8575	8951
230	9231	9384	9061	8975	8631	9056
231	9349	9478	9174	9094	8723	9164
232	9444	9586	9302	9210	8865	9281
233	9540	9695	9418	9336	8999	9398
234	9640	9822	9540	9451	9109	9512
235	9757	9944	9640	9561	9222	9625
236	9880	10066	9750	9662	9337	9739
237	10004	10178	9865	9774	9466	9857
238	10117	10300	9998	9893	9591	9980
239	10227	10422	10126	10027	9717	10104
240	10337	10559	10252	10149	9826	10225
241	10460	10686	10363	10271	9946	10345
242	10588	10816	10488	10389	10065	10469
243	10714	10934	10613	10514	10201	10595
244	10830	11061	10749	10640	10331	10722
245	10940	11189	10877	10776	10465	10849
246	11051	11327	11008	10905	10585	10975
247	11175	11457	11130	11034	10710	11101
248	11301	11592	11254	11153	10830	11226
249	11431	11719	11377	11284	10967	11356
250	11548	11848	11516	11417	11100	11486

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251	23449					
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252	15095	13992	13525	14082	12859	13911
253	15220	14117	13651	14208	12976	14034
254	15337	14240	13772	14330	13106	14157
255	15465	14364	13903	14462	13227	14284
256	15579	14483	14025	14583	13356	14405
257	15703	14611	14155	14711	13475	14531
258	15815	14732	14275	14834	13603	14652
259	15940	14860	14407	14964	13722	14779
260	16060	14985	14529	15087	13851	14902
261	16183	15113	14659	15216	13976	15029
262	16293	15234	14784	15337	14110	15152
263	16413	15361	14911	15466	14232	15277
264	16523	15488	15037	15592	14361	15400
265	16645	15616	15169	15720	14482	15526
266	16757	15741	15293	15841	14613	15649
267	16880	15868	15425	15972	14734	15776
268	16995	15995	15548	16096	14865	15900
269	17122	16125	15679	16227	14986	16028
270	17239	16248	15804	16350	15116	16151
271	17367	16380	15935	16477	15237	16279
272	17487	16506	16059	16603	15364	16404
273	17616	16638	16196	16731	15487	16534
274	17739	16763	16321	16854	15618	16659
275	17869	16890	16452	16987	15739	16787
276	17990	17016	16579	17110	15869	16913
277	18121	17149	16713	17240	15994	17043
278	18240	17273	16837	17367	16122	17168
279	18371	17405	16974	17498	16242	17298
280	18493	17532	17099	17624	16372	17424
281	18628	17663	17233	17758	16495	17555
282	18753	17792	17358	17882	16628	17683
283	18883	17924	17489	18016	16751	17813
284	19007	18055	17615	18145	16885	17941
285	19142	18192	17751	18277	17009	18074
286	19266	18324	17878	18406	17143	18203
287	19403	18462	18013	18544	17267	18338
288	19529	18593	18140	18675	17402	18468
289	19666	18731	18275	18812	17525	18602
290	19793	18863	18407	18945	17660	18734
291	19926	19006	18545	19091	17786	18871
292	20051	19139	18673	19224	17919	19001
293	20188	19279	18815	19364	18046	19138
294	20316	19412	18946	19504	18184	19272
295	20453	19552	19092	19648	18313	19412
296	20584	19685	19224	19783	18453	19546
297	20728	19824	19368	19924	18582	19685
298	20856	19957	19501	20061	18721	19819
299	20997	20099	19643	20209	18853	19960
300	21125	20233	19779	20348	19001	20097

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251	15142	13232	12822	12480	12280	13191
252	15273	13365	12961	12625	12415	13328
253	15406	13510	13101	12764	12546	13465
254	15536	13650	13243	12906	12692	13605
255	15671	13791	13388	13045	12836	13746
256	15803	13938	13528	13185	12976	13886
257	15941	14080	13677	13324	13118	14028
258	16076	14217	13820	13473	13258	14169
259	16214	14362	13965	13617	13400	14312
260	16349	14506	14109	13768	13545	14455
261	16491	14646	14256	13914	13694	14600
262	16631	14790	14399	14065	13842	14745
263	16771	14934	14544	14212	13991	14890
264	16910	15078	14691	14358	14136	15035
265	17052	15224	14838	14504	14283	15180
266	17191	15371	14985	14652	14429	15326
267	17335	15518	15132	14797	14577	15472
268	17474	15663	15280	14946	14729	15618
269	17615	15807	15433	15092	14885	15766
270	17755	15953	15581	15252	15042	15917
271	17899	16096	15732	15406	15196	16066
272	18041	16242	15885	15564	15349	16216
273	18186	16395	16034	15718	15505	16368
274	18329	16554	16182	15876	15665	16521
275	18477	16714	16332	16032	15824	16676
276	18624	16874	16486	16190	15982	16831
277	18769	17033	16643	16345	16140	16986
278	18914	17194	16800	16505	16297	17142
279	19061	17358	16959	16659	16454	17298
280	19209	17518	17117	16821	16602	17453
281	19367	17681	17278	16977	16756	17612
282	19523	17845	17437	17138	16914	17771
283	19681	18010	17595	17298	17072	17931
284	19835	18175	17754	17461	17231	18091
285	19991	18341	17914	17621	17388	18251
286	20144	18505	18075	17784	17546	18411
287	20299	18671	18233	17944	17706	18571
288	20451	18833	18392	18107	17863	18729
289	20608	18999	18555	18267	18022	18890
290	20759	19161	18715	18433	18182	19050
291	20913	19326	18874	18592	18343	19210
292	21065	19492	19034	18757	18505	19371
293	21217	19660	19198	18918	18666	19532
294	21369	19827	19363	19085	18826	19694
295	21529	19991	19531	19246	18984	19856
296	21681	20154	19695	19416	19147	20019
297	21837	20320	19861	19579	19308	20181
298	21993	20485	20024	19744	19466	20342
299	22151	20649	20188	19905	19629	20504
300	22307	20808	20351	20071	19791	20666

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251	15528	15095	14600	14561	14321	14821
252	15659	15243	14741	14716	14478	14967
253	15797	15388	14887	14858	14629	15112
254	15930	15536	15030	15014	14786	15259
255	16078	15681	15182	15162	14934	15407
256	16215	15827	15330	15318	15088	15556
257	16361	15977	15484	15465	15236	15705
258	16498	16125	15634	15623	15393	15855
259	16638	16276	15792	15773	15541	16004
260	16774	16428	15942	15932	15699	16155
261	16919	16580	16098	16079	15846	16304
262	17055	16732	16248	16238	15999	16454
263	17205	16883	16409	16386	16149	16606
264	17346	17033	16562	16541	16303	16757
265	17494	17183	16720	16685	16451	16907
266	17639	17333	16870	16837	16605	17057
267	17794	17485	17029	16979	16755	17208
268	17940	17635	17178	17129	16909	17358
269	18098	17787	17333	17272	17059	17510
270	18246	17936	17481	17426	17211	17660
271	18403	18091	17636	17568	17358	17811
272	18550	18243	17782	17722	17516	17963
273	18704	18396	17934	17865	17662	18112
274	18849	18550	18078	18025	17819	18264
275	19005	18701	18231	18171	17965	18415
276	19150	18854	18374	18329	18119	18565
277	19306	19006	18532	18475	18266	18717
278	19450	19157	18680	18633	18421	18868
279	19604	19313	18837	18781	18571	19021
280	19749	19466	18984	18940	18731	19174
281	19906	19621	19140	19090	18881	19328
282	20052	19772	19289	19252	19040	19481
283	20209	19926	19449	19403	19189	19635
284	20352	20083	19601	19565	19348	19790
285	20507	20239	19762	19715	19501	19945
286	20652	20396	19915	19877	19664	20101
287	20808	20553	20073	20028	19821	20257
288	20953	20709	20224	20189	19983	20412
289	21112	20866	20385	20343	20141	20569
290	21258	21021	20537	20507	20307	20726
291	21416	21180	20698	20661	20462	20883
292	21562	21338	20852	20827	20630	21042
293	21721	21498	21017	20981	20788	21201
294	21864	21657	21172	21150	20954	21359
295	22024	21814	21335	21305	21113	21518
296	22171	21973	21493	21470	21283	21678
297	22331	22134	21659	21626	21442	21838
298	22478	22295	21816	21792	21613	21999
299	22639	22451	21977	21947	21774	22158
300	22787	22609	22133	22114	21945	22318

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251	11385	11827	11060	10899	10375	11109
252	11498	11949	11170	11034	10528	11236
253	11614	12072	11290	11173	10665	11363
254	11727	12197	11411	11307	10809	11490
255	11846	12316	11539	11439	10939	11616
256	11962	12438	11662	11567	11072	11740
257	12081		11798	11700	11197	
258	12201		11925	11828	11327	
259	12326		12061	11957	11447	
260	12447		12187	12084	11579	
261			12321	12213	11702	
262			12447	12335	11834	
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252	11786	12116	11788	11692	11363	11749
253	11913	12249	11911	11827	11494	11879
254	12040	12386	12040	11955	11618	12008
255	12172		12168	12093	11760	12048
256	12293		12309	12231	11890	12181
257	12419		12433	12374	12025	12313
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301	21268	20374	19924	20496	19137	20240
302	21399	20508	20061	20636	19281	20377
303	21538	20653	20209	20788	19415	20521
304	21669	20792	20349	20927	19566	20661
305	21814	20940	20499	21074	19697	20805
306	21940	21079	20638	21218	19844	20944
307	22087	21230	20789	21371	19984	21092
308	22216	21372	20928	21517	20136	21234
309	22364	21522	21082	21670	20269	21381
310	22498	21667	21222	21815	20421	21525
311	22647	21815	21376	21967	20559	21673
312	22779	21961	21521	22111	20712	21817
313	22924	22114	21675	22269	20856	21968
314	23056	22254	21814	22418	21011	22111
315	23210	22405	21967	22576	21152	22262
316	23344	22557	22111	22724	21305	22408
317		22707	22267	22887	21446	
318		22850	22412	23037	21604	
319		22995	22569	23196	21753	
320		23138	22713	23343	21919	
321		23283	22868		22071	
322		23427	23012		22234	
323			23171		22388	
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301	22465	20969	20518	20228	19955	20827
302	22622	21129	20679	20396	20118	20989
303	22778	21288	20842	20554	20277	21148
304	22931	21447	21004	20721	20440	21309
305	23083	21608	21166	20883	20600	21468
306	23235	21765	21329	21047	20764	21628
307	23391	21924	21492	21207	20926	21788
308		22085	21655	21370	21088	
309		22246	21818	21530	21247	
310		22406	21982	21696	21410	
311		22564	22144	21856	21573	
312		22719	22309	22022	21735	
313		22877	22471	22184	21896	
314		23029	22632	22350	22057	
315		23186	22793	22512	22218	
316		23342	22952	22677	22383	
317			23111	22838	22544	
318			23267	23006	22708	
319			23422	23165	22870	
320				23330	23034	
321					23195	
322					23355	
323						
324						
325						
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331						
332						
333						
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335						
336						

	T	U	V	W	X	Y
301	22945	22764	22298	22268	22108	22477
302	23091	22923	22452	22435	22275	22635
303	23248	23076	22613	22591	22435	22793
304	23395	23232	22771	22760	22605	22953
305		23387	22933	22917	22766	
306			23088	23087	22937	
307			23250	23244	23100	
308			23406	23414	23267	
309					23433	
310						
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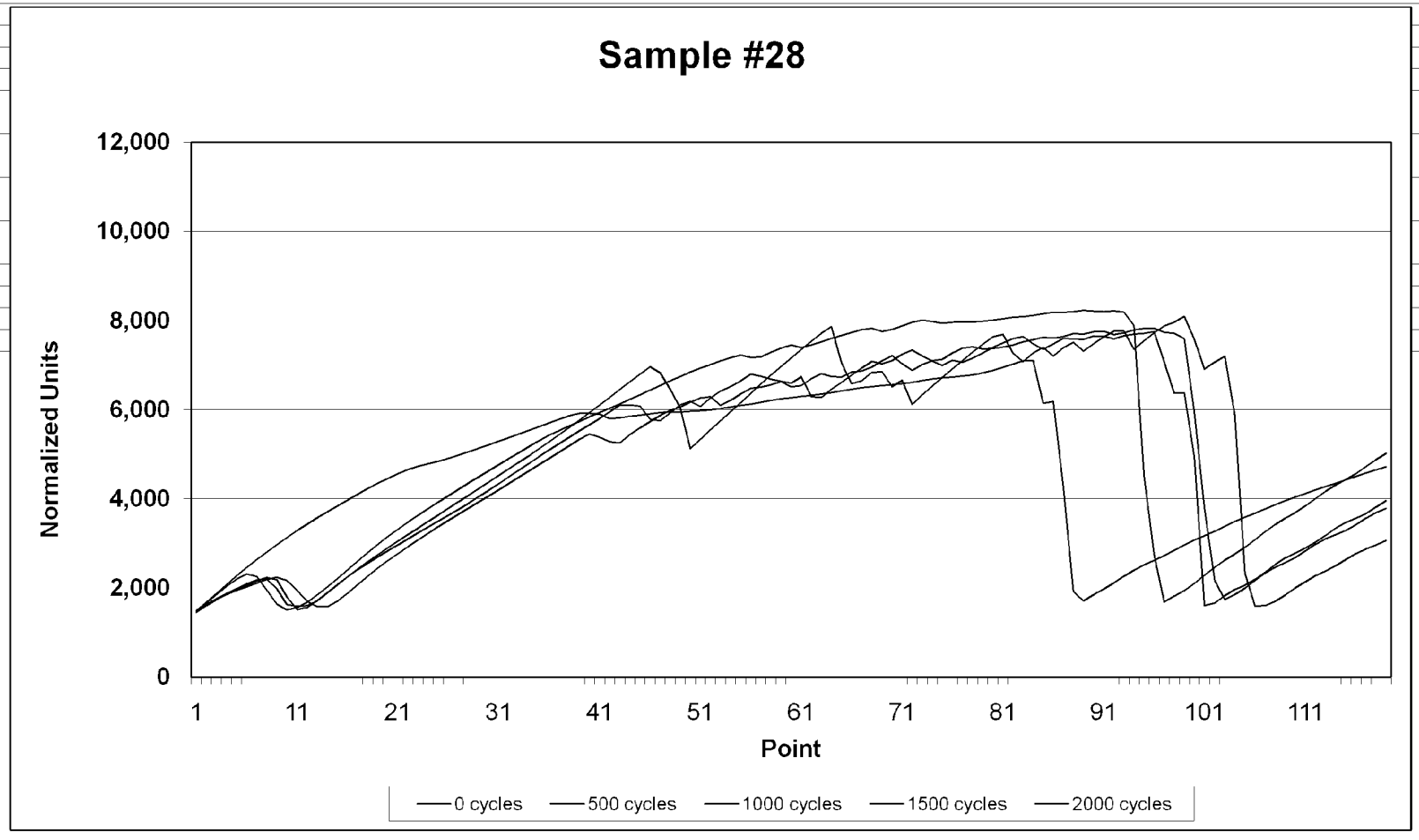
	A
1	File:
2	Make:
3	Model:
4	Step Size [inch]:
5	Deflection [inch/lb]:



	B	C	D	E	F	G
1	770-28-0	8224				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1470	1532	1416	1435	1423	1455
8	1663	1731	1612	1644	1627	1655
9	1850	1928	1799	1841	1823	1848
10	2031	2097	1981	2028	2012	2030
11	2177	2249	2147	2195	2177	2189
12	2259	2316	2300	2346	2326	2309
13	2002	2029	2399	2436	2386	2250
14	1406	1533	2262	2340	2195	1947
15	1428	1421	1727	1879	1713	1634
16	1598	1539	1436	1485	1463	1504
17	1789	1709	1413	1439	1438	1558
18	1984	1885	1483	1524	1511	1677
19	2179	2078	1618	1673	1646	1839
20	2376	2270	1785	1844	1818	2019
21	2569	2465	1971	2029	1997	2206
22	2763	2653	2166	2225	2192	2400
23	2952	2850	2361	2421	2387	2594
24	3129	3037	2555	2622	2589	2786
25	3299	3217	2738	2819	2785	2972
26	3465	3369	2906	3013	2981	3147
27	3620	3520	3072	3187	3157	3311
28	3777	3665	3234	3355	3330	3472
29	3928	3817	3379	3510	3495	3626
30	4076	3961	3525	3660	3654	3775
31	4218	4108	3667	3800	3802	3919
32	4358	4249	3809	3944	3953	4063
33	4493	4395	3949	4082	4102	4204
34	4630	4540	4089	4222	4253	4347
35	4766	4691	4224	4355	4391	4485
36	4906	4836	4354	4495	4530	4624
37	5043	4988	4481	4630	4663	4761
38	5179	5132	4608	4770	4795	4897
39	5309	5282	4736	4902	4922	5030
40	5444	5428	4872	5043	5053	5168
41	5558	5581	5010	5177	5172	5300
42	5646	5723	5153	5309	5286	5423
43	5709	5850	5285	5416	5376	5527
44	5797	5943	5402	5532	5483	5631
45	5888	6044	5495	5635	5586	5730
46	5994	6139	5605	5751	5686	5835
47	6076	6237	5704	5860	5770	5929
48	6156	6332	5806	5964	5864	6024
49	6244	6445	5905	6052	5963	6122
50	6335	6566	6016	6145	6072	6227

	H	I	J	K	L	M
1	770-28-500	7821				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1456	1458	1419	1444	1457	1447
8	1637	1620	1559	1573	1603	1598
9	1808	1760	1679	1683	1731	1732
10	1960	1857	1777	1782	1851	1845
11	2076	1915	1864	1869	1974	1940
12	2153	1924	1949	1976	2105	2021
13	2182	1967	2063	2092	2223	2105
14	2188	2049	2180	2212	2309	2188
15	2226	2136	2280	2298	2241	2236
16	2325	2146	2241	2280	1807	2160
17	2416	1913	1906	1953	1484	1934
18	2341	1537	1547	1571	1470	1693
19	1873	1454	1498	1503	1551	1576
20	1532	1480	1560	1575	1709	1571
21	1580	1596	1705	1720	1900	1700
22	1748	1761	1878	1902	2102	1878
23	1943	1948	2065	2087	2299	2068
24	2145	2135	2252	2280	2484	2259
25	2345	2310	2441	2458	2643	2439
26	2544	2455	2610	2617	2805	2606
27	2710	2592	2773	2771	2961	2761
28	2870	2726	2935	2930	3119	2916
29	3027	2866	3099	3086	3270	3070
30	3188	3007	3252	3241	3422	3222
31	3341	3147	3401	3385	3564	3368
32	3495	3281	3538	3531	3709	3511
33	3639	3412	3672	3668	3852	3649
34	3781	3535	3808	3815	3999	3788
35	3910	3659	3947	3958	4142	3923
36	4040	3773	4089	4102	4293	4059
37	4165	3892	4239	4249	4442	4197
38	4291	4004	4389	4405	4597	4337
39	4416	4116	4548	4560	4753	4479
40	4547	4231	4705	4717	4915	4623
41	4682	4339	4870	4870	5073	4767
42	4807	4440	5023	5019	5236	4905
43	4927	4559	5179	5163	5395	5045
44	5040	4690	5333	5310	5563	5187
45	5147	4829	5489	5453	5724	5328
46	5171	4965	5641	5589	5871	5447
47	4986	5084	5786	5719	5304	5376
48	5111	4928	5760	5219	5376	5279
49	5249	5006	5152	5242	5581	5246
50	5373	5167	5389	5456	5765	5430

	N	O	P	Q	R	S
1	770-28-1000	7741				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1531	1417	1506	1488	1483	1485
8	1664	1560	1654	1626	1623	1625
9	1776	1694	1784	1749	1755	1752
10	1870	1818	1917	1870	1870	1869
11	1946	1924	2046	1991	1989	1979
12	1988	2035	2174	2121	2098	2083
13	2004	2146	2270	2248	2193	2172
14	2037	2202	2218	2304	2200	2192
15	2100	2003	1760	2086	1932	1976
16	2151	1485	1431	1543	1487	1619
17	2025	1515	1567	1400	1426	1587
18	1593	1683	1746	1432	1537	1598
19	1505	1867	1935	1537	1688	1706
20	1676	2052	2129	1689	1860	1881
21	1870	2234	2321	1853	2035	2063
22	2061	2402	2509	2033	2209	2243
23	2235	2556	2675	2207	2362	2407
24	2363	2691	2825	2379	2498	2551
25	2489	2825	2975	2526	2628	2689
26	2613	2961	3126	2664	2763	2825
27	2739	3101	3271	2798	2898	2961
28	2864	3238	3413	2940	3035	3098
29	2990	3375	3546	3077	3166	3231
30	3115	3509	3671	3220	3301	3363
31	3241	3636	3808	3353	3430	3494
32	3372	3750	3954	3488	3553	3623
33	3502	3888	4101	3613	3670	3755
34	3632	4036	4260	3743	3803	3895
35	3762	4192	4416	3883	3938	4038
36	3887	4347	4579	4033	4082	4186
37	4010	4509	4741	4181	4228	4334
38	4135	4670	4907	4337	4378	4485
39	4268	4836	5074	4486	4523	4637
40	4398	4999	5249	4632	4673	4790
41	4514	5174	5421	4782	4827	4944
42	4586	5346	5595	4942	4983	5090
43	4664	5519	5767	5101	5140	5238
44	4710	5683	5940	5268	5304	5381
45	4752	5839	6113	5430	5467	5520
46	4810	5988	6259	5601	5637	5659
47	4869	6141	6396	5767	5803	5795
48	4960	6290	6546	5941	5977	5943
49	5077	6437	6677	6114	6146	6090
50	5191	6558	6153	6287	6319	6102

	T	U	V	W	X	Y
1	770-28-1500	8089				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1520	1414	1521	1472	1507	1487
8	1671	1535	1642	1596	1623	1613
9	1811	1649	1760	1714	1734	1734
10	1933	1762	1877	1827	1836	1847
11	2025	1869	1996	1945	1936	1954
12	2083	1985	2112	2060	2040	2056
13	2099	2101	2229	2177	2155	2152
14	2111	2236	2287	2261	2248	2229
15	2116	2329	2107	2157	2184	2179
16	1955	2218	1535	1594	1669	1794
17	1480	1658	1439	1509	1449	1507
18	1491	1455	1572	1662	1593	1555
19	1653	1592	1737	1836	1766	1717
20	1830	1761	1909	2015	1946	1892
21	2015	1935	2084	2194	2126	2071
22	2198	2114	2256	2370	2302	2248
23	2377	2290	2416	2544	2468	2419
24	2548	2457	2559	2716	2626	2581
25	2707	2605	2703	2887	2787	2738
26	2858	2749	2845	3054	2949	2891
27	3009	2895	2989	3210	3107	3042
28	3158	3044	3130	3362	3260	3191
29	3307	3187	3275	3518	3407	3339
30	3451	3332	3414	3674	3554	3485
31	3597	3476	3560	3829	3704	3633
32	3738	3619	3706	3983	3858	3781
33	3874	3760	3850	4142	4010	3927
34	4000	3903	3993	4302	4165	4073
35	4129	4049	4143	4467	4318	4221
36	4249	4197	4288	4629	4476	4368
37	4372	4347	4437	4796	4631	4517
38	4496	4494	4582	4960	4792	4665
39	4624	4640	4729	5128	4952	4815
40	4752	4786	4870	5298	5118	4965
41	4884	4939	5021	5470	5284	5120
42	5020	5092	5168	5641	5452	5275
43	5161	5251	5327	5819	5617	5435
44	5313	5406	5482	5992	5788	5596
45	5467	5567	5641	6170	5960	5761
46	5627	5727	5804	6348	6135	5928
47	5790	5892	5978	6534	6305	6100
48	5954	6062	6144	6716	6477	6271
49	6122	6238	6320	6901	6648	6446
50	6288	6411	6493	7080	6827	6620

	Z	AA	AB	AC	AD	AE
1	770-28-2000	7092				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1455	1568	1542	1418	1429	1482
8	1665	1758	1736	1611	1615	1677
9	1869	1951	1934	1805	1805	1873
10	2076	2145	2127	2001	1995	2069
11	2278	2343	2325	2195	2191	2266
12	2465	2539	2517	2371	2382	2455
13	2622	2734	2703	2529	2567	2631
14	2784	2924	2867	2685	2730	2798
15	2941	3108	3037	2840	2894	2964
16	3104	3276	3196	2995	3054	3125
17	3255	3440	3357	3148	3213	3283
18	3407	3592	3495	3295	3359	3430
19	3549	3735	3633	3433	3499	3570
20	3691	3873	3760	3563	3630	3703
21	3819	4013	3889	3690	3766	3835
22	3948	4152	4004	3823	3880	3961
23	4070	4290	4147	3956	4017	4096
24	4185	4418	4279	4092	4155	4226
25	4226	4545	4419	4229	4295	4343
26	4267	4650	4548	4362	4431	4452
27	4330	4734	4665	4491	4575	4559
28	4389	4806	4742	4606	4717	4652
29	4440	4861	4801	4661	4863	4725
30	4497	4902	4837	4717	4972	4785
31	4552	4937	4864	4787	5035	4835
32	4627	4995	4937	4845	5099	4901
33	4697	5083	5030	4879	5171	4972
34	4775	5164	5119	4932	5261	5050
35	4833	5246	5219	5001	5344	5129
36	4896	5337	5314	5092	5398	5207
37	4962	5430	5392	5183	5471	5288
38	5034	5526	5442	5288	5547	5367
39	5109	5622	5520	5381	5616	5450
40	5186	5710	5589	5462	5720	5533
41	5256	5789	5670	5533	5834	5616
42	5329	5865	5748	5612	5932	5697
43	5387	5957	5841	5691	6039	5783
44	5429	6040	5922	5767	6140	5860
45	5458	6083	5969	5834	6236	5916
46	5478	6046	5902	5865	6286	5915
47	5505	5999	5883	5815	6277	5896
48	5536	5987	5861	5771	5802	5791
49	5564	6024	5816	5792	5866	5812
50	5596	6051	5787	5816	5990	5848

	B	C	D	E	F	G
51	6412	6687	6125	6250	6176	6330
52	6504	6822	6235	6355	6274	6438
53	6578	6982	6333	6444	6363	6540
54	6658	7134	6425	6537	6456	6642
55	6723	7291	6517	6629	6547	6741
56	6794	7449	6618	6715	6622	6840
57	6849	7609	6699	6786	6695	6928
58	6919	7762	6762	6843	6764	7010
59	6985	7920	6811	6901	6831	7090
60	7052	8042	6867	6972	6889	7164
61	7113	8111	6897	7042	6942	7221
62	7168	7551	6941	7182	6985	7165
63	7207	7317	6993	7341	7036	7179
64	7258	7521	7052	7489	7098	7284
65	7314	7688	7110	7615	7157	7377
66	7387	7813	7171	7634	7225	7446
67	7453	7899	7223	7058	7301	7387
68	7523	7945	7288	7122	7362	7448
69	7599	7991	7349	7262	7402	7521
70	7665	8041	7462	7361	7455	7597
71	7707	8053	7624	7408	7508	7660
72	7757	8066	7782	7460	7579	7729
73	7788	8096	7908	7538	7636	7793
74	7842	7986	7974	7614	7700	7823
75	7888	7955	7467	7660	7774	7749
76	7933	8043	7412	7724	7867	7796
77	7969	8136	7507	7797	7969	7876
78	8018	8185	7608	7867	8105	7957
79	8052	8199	7679	7920	8191	8008
80	8099	8144	7744	7985	7919	7978
81	8144	8108	7799	7977	7651	7936
82	8185	8152	7835	7939	7690	7960
83	8226	8184	7825	7848	7734	7963
84	8279	8164	7827	7782	7774	7965
85	8308	8121	7880	7817	7785	7982
86	8339	8116	7931	7848	7791	8005
87	8353	8129	7964	7905	7821	8034
88	8380	8169	7970	7984	7849	8070
89	8411	8245	7944	7997	7827	8085
90	8463	8292	7960	8026	7832	8115
91	8571	8310	7970	8063	7839	8151
92	8714	8343	7995	8027	7853	8186
93	8835	8406	8011	7810	7820	8176
94	8924	8521	7992	7795	7754	8197
95	8939	8619	7988	7829	7747	8224
96	8817	8655	7963	7808	7786	8206
97	8737	8690	7877	7805	7865	8195
98	8807	8746	7804	7791	7918	8213
99	8882	8793	7674	7672	7893	8183
100	8901	8699	7491	6629	7675	7879

	H	I	J	K	L	M
51	5466	5305	5597	5643	5933	5589
52	5553	5402	5774	5823	6106	5732
53	5639	5499	5956	5986	6261	5868
54	5724	5584	6125	6113	6339	5977
55	5795	5671	6297	6223	6282	6054
56	5801	5750	6436	6370	6459	6163
57	5858	5795	6532	6480	6630	6259
58	5974	5866	6628	6313	6669	6290
59	6083	5933	6272	6288	5892	6094
60	6191	5964	6261	6504	6103	6205
61	6312	5941	6481	6680	6314	6346
62	6427	5983	6667	6812	6510	6480
63	6528	6108	6840	6345	6689	6502
64	6606	6185	6985	6122	6867	6553
65	6567	6253	6954	6364	7003	6628
66	6532	6315	6285	6575	6827	6507
67	6664	6364	6509	6755	6394	6537
68	6786	6407	6712	6929	6618	6690
69	6812	6404	6905	7076	6813	6802
70	6470	6452	7077	6705	6989	6739
71	6536	6535	7213	6228	7122	6727
72	6704	6553	7255	6473	7226	6842
73	6846	6542	7206	6679	7038	6862
74	6937	6608	7308	6878	7031	6952
75	7035	6677	7461	7061	7226	7092
76	7131	6738	7547	7230	7392	7208
77	6755	6807	6731	7359	7468	7024
78	6663	6678	6834	7402	6811	6878
79	6863	6712	7063	7494	6906	7008
80	7035	6841	7260	7221	7133	7098
81	7181	6914	7454	6758	7325	7126
82	7289	6933	7628	6996	7497	7269
83	7303	6981	7759	7198	7630	7374
84	7246	7010	7844	7387	7540	7405
85	7253	6875	7936	7555	7175	7359
86	7368	6934	7501	7663	7386	7370
87	7476	7054	7309	7580	7565	7397
88	7542	7116	7523	7346	7703	7446
89	7593	7102	7722	7511	7673	7520
90	7592	7014	7868	7672	7698	7569
91	7514	7120	7967	7733	7772	7621
92	7543	7194	7805	7621	7831	7599
93	7621	7288	7656	7709	7924	7640
94	7649	7348	7825	7749	7943	7703
95	7647	7284	7982	7764	7784	7692
96	7675	7258	8105	7795	7880	7743
97	7659	7281	8084	7782	7966	7754
98	7641	7307	7725	7814	7907	7679
99	7596	7322	7863	7882	7935	7720
100	7671	7406	8003	7818	8024	7784

	N	O	P	Q	R	S
51	5297	6694	5458	6437	6472	6072
52	5383	6849	5731	5358	5593	5783
53	5422	6977	5953	5319	5057	5746
54	5499	7054	6161	5577	5323	5923
55	5593	7204	6364	5798	5544	6101
56	5666	6918	6568	5998	5743	6179
57	5737	5711	6763	6194	5941	6069
58	5791	5973	6960	6406	6148	6256
59	5778	6201	7142	6607	6348	6415
60	5521	6393	7321	6796	6548	6516
61	5408	6582	7485	6972	6736	6637
62	5519	6753	7645	7147	6916	6796
63	5573	6924	6834	7314	7082	6745
64	5651	7082	5963	7473	7235	6681
65	5754	7244	6228	7591	6349	6633
66	5860	7388	6457	7730	5510	6589
67	5957	7522	6661	7790	5752	6736
68	6071	7060	6873	5469	5968	6288
69	6159	6316	7066	5640	6157	6268
70	6188	6561	7262	5898	6356	6453
71	6150	6773	7442	6142	6541	6610
72	6195	6957	7617	6349	6732	6770
73	6273	7145	7767	6548	6906	6928
74	6343	7320	7885	6771	7077	7079
75	6375	7496	7041	6985	7239	7027
76	6418	7646	6834	7188	7393	7096
77	6445	7789	7076	7363	7511	7237
78	6528	7898	7285	7543	7418	7334
79	6597	7924	7466	7706	6335	7206
80	6670	6699	7643	7832	6582	7085
81	6694	6894	7796	6755	6799	6988
82	6681	7122	7899	6823	6990	7103
83	6684	7322	7087	7045	7156	7059
84	6699	7496	6999	7245	7320	7152
85	6596	7674	7209	7415	7445	7268
86	6629	7839	7390	7577	7544	7396
87	6609	7979	7548	7687	7647	7494
88	6619	8089	7706	7742	7780	7587
89	6665	8152	7819	7729	7814	7636
90	6735	7521	7849	7765	7493	7473
91	6772	7496	7637	7759	7107	7354
92	6739	7690	7753	7858	7321	7472
93	6781	7857	7865	7978	7483	7593
94	6825	8002	7888	7600	7616	7586
95	6806	8131	7859	7348	7710	7571
96	6772	8205	7976	7554	7730	7647
97	6790	8084	8014	7707	7621	7643
98	6791	7607	8041	7826	7655	7584
99	6771	7778	8060	7929	7751	7658
100	6824	7893	7976	7965	7810	7694

	T	U	V	W	X	Y
51	6445	6587	6666	7264	7001	6793
52	6604	6763	6805	7443	7181	6959
53	5394	6936	6797	7631	7358	6823
54	5031	7100	4784	7808	7538	6452
55	5268	5347	5024	7076	7454	6034
56	5482	5015	5249	5062	4806	5123
57	5669	5213	5475	5233	5062	5330
58	5862	5427	5666	5461	5308	5545
59	6064	5613	5863	5675	5525	5748
60	6263	5815	6069	5879	5714	5948
61	6456	6038	6285	6085	5904	6154
62	6645	6258	6479	6309	6136	6365
63	6834	6464	6665	6546	6373	6576
64	7012	6662	6854	6763	6593	6777
65	7185	6856	7050	6958	6789	6968
66	7360	7042	7232	7147	6989	7154
67	7525	7227	7411	7354	7201	7344
68	7680	7412	7587	7553	7407	7528
69	7825	7602	7760	7746	7602	7707
70	7931	7779	7835	7929	7802	7855
71	5863	7937	5338	8121	7993	7050
72	5022	5913	5475	8309	8182	6580
73	5216	5471	5698	8480	8355	6644
74	5434	5693	5911	8608	8533	6836
75	5602	5914	6093	8756	7874	6848
76	5776	6111	6272	8936	5484	6516
77	5962	6314	6471	8851	5692	6658
78	6139	6530	6667	5307	5929	6114
79	6319	6738	6852	5564	6171	6329
80	6496	6933	7020	5799	6376	6525
81	6670	7126	7199	6036	6565	6719
82	6830	7320	7371	6247	6781	6910
83	6990	7500	7540	6461	6997	7098
84	7148	7676	7696	6699	7211	7286
85	7289	7844	7861	6940	7398	7466
86	7383	8019	8013	7148	7585	7630
87	6958	8182	8161	7337	7782	7684
88	6755	7159	6901	7525	7966	7261
89	6898	6396	6213	7720	8128	7071
90	7002	6680	6487	7899	8286	7271
91	7120	6910	6721	8060	8161	7394
92	7244	7111	6920	8225	6490	7198
93	7345	7314	7129	8391	6753	7386
94	7430	7514	7329	8260	7005	7508
95	7500	7707	7523	6607	7219	7311
96	7507	7886	7697	6887	7407	7477
97	7468	8056	7865	7143	7580	7622
98	7462	8212	8002	7361	7743	7756
99	7319	8206	7798	7562	7887	7754
100	7270	6667	7028	7758	8032	7351

	Z	AA	AB	AC	AD	AE
51	5626	6024	5788	5825	6084	5869
52	5679	6032	5800	5835	6149	5899
53	5725	6084	5818	5822	6221	5934
54	5734	6146	5854	5805	6213	5950
55	5753	6183	5908	5825	6034	5941
56	5788	6166	5952	5856	6055	5963
57	5804	6141	5955	5885	6075	5972
58	5840	6165	5957	5907	6093	5992
59	5870	6199	5987	5925	6129	6022
60	5929	6242	6023	5943	6128	6053
61	5989	6297	6062	5951	6147	6089
62	6027	6343	6087	5990	6155	6120
63	6040	6384	6130	6038	6223	6163
64	6059	6432	6164	6076	6287	6204
65	6079	6479	6205	6114	6328	6241
66	6088	6506	6244	6141	6350	6266
67	6106	6536	6298	6155	6375	6294
68	6126	6556	6333	6182	6397	6319
69	6148	6579	6373	6205	6419	6345
70	6178	6614	6422	6233	6430	6375
71	6212	6671	6463	6265	6482	6419
72	6248	6718	6486	6287	6541	6456
73	6286	6760	6517	6302	6574	6488
74	6327	6795	6529	6310	6596	6511
75	6349	6828	6542	6333	6625	6535
76	6371	6852	6546	6372	6635	6555
77	6397	6865	6557	6410	6663	6578
78	6429	6885	6586	6450	6690	6608
79	6467	6923	6638	6481	6737	6649
80	6497	6967	6677	6525	6779	6689
81	6491	7011	6694	6566	6798	6712
82	6500	7041	6692	6610	6809	6730
83	6537	7048	6701	6608	6852	6749
84	6607	7067	6732	6615	6869	6778
85	6654	7098	6808	6656	6902	6824
86	6703	7137	6871	6719	6947	6875
87	6767	7185	6954	6792	7035	6947
88	6842	7241	7027	6856	7129	7019
89	6847	7336	7114	6926	7219	7088
90	6563	7414	7186	7015	7281	7092
91	1577	7441	7226	7102	7354	6140
92	1753	7433	7140	7170	7399	6179
93	1886	3372	1592	7075	7370	4259
94	2035	1485	1544	1553	2950	1913
95	2198	1681	1701	1514	1438	1706
96	2356	1829	1818	1669	1558	1846
97	2497	1964	1950	1779	1672	1972
98	2615	2133	2088	1909	1806	2110
99	2745	2313	2233	2053	1949	2259
100	2878	2461	2349	2200	2084	2394

	B	C	D	E	F	G
101	8736	5667	4502	1536	2083	4505
102	7459	1541	1554	1676	1484	2743
103	1491	1731	1703	1811	1656	1678
104	1619	1901	1800	1992	1746	1812
105	1666	2033	1942	2200	1846	1937
106	1779	2202	2125	2383	1996	2097
107	1962	2394	2313	2526	2197	2278
108	2183	2604	2483	2645	2379	2459
109	2374	2787	2603	2793	2535	2618
110	2528	2925	2721	2975	2641	2758
111	2663	3052	2878	3172	2774	2908
112	2840	3217	3067	3334	2942	3080
113	3046	3401	3255	3446	3134	3256
114	3235	3600	3402	3558	3301	3419
115	3385	3757	3505	3716	3418	3556
116	3502	3867	3636	3900	3512	3683
117	3648	3992	3806	4075	3653	3835
118	3827	4169	3985	4191	3828	4000
119	4026	4355	4141	4292	4012	4165
120	4197	4528	4246	4427	4138	4307
121	4312	4633	4350	4603	4233	4426
122	4426	4739	4506	4767	4356	4559
123	4587	4888	4683	4891	4528	4715
124	4773	5074	4843	4989	4695	4875
125	4949	5242	4954	5113	4829	5017
126	5068	5364	5058	5260	4920	5134
127	5169	5458	5192	5414	5031	5253
128	5314	5598	5349	5540	5171	5394
129	5496	5750	5497	5647	5327	5543
130	5667	5908	5618	5749	5456	5680
131	5802	6037	5717	5869	5560	5797
132	5899	6145	5831	6000	5655	5906
133	6029	6252	5955	6127	5774	6027
134	6181	6383	6091	6227	5899	6156
135	6340	6488	6213	6317	6024	6276
136	6474	6567	6314	6404	6123	6376
137	6572	6632	6401	6507	6210	6464
138	6635	6693	6496	6583	6292	6540
139	6705	6748	6570	6649	6393	6613
140	6780	6818	6639	6700	6493	6686
141	6865	6895	6704	6749	6576	6758
142	6941	6975	6759	6803	6627	6821
143	7005	7032	6810	6876	6675	6880
144	7064	7089	6874	6949	6727	6941
145	7135	7148	6947	7017	6801	7010
146	7211	7223	7022	7071	6876	7081
147	7289	7295	7082	7132	6943	7148
148	7345	7355	7134	7197	6999	7206
149	7390	7399	7189	7270	7060	7262
150	7441	7457	7253	7330	7125	7321

	H	I	J	K	L	M
101	7769	7444	8082	7824	7987	7821
102	7828	7400	8088	7859	7924	7820
103	7803	7367	7981	7812	7698	7732
104	7717	7341	8011	7651	7830	7710
105	7692	7286	7703	7707	7547	7587
106	7641	6120	7564	6760	1566	5930
107	7479	1441	6757	1470	1744	3778
108	4076	1619	1594	1639	1857	2157
109	1455	1722	1768	1740	1971	1731
110	1540	1842	1870	1853	2116	1844
111	1664	1998	1976	2012	2292	1988
112	1850	2179	2129	2193	2458	2162
113	2033	2341	2303	2366	2588	2326
114	2165	2470	2471	2488	2689	2457
115	2248	2565	2586	2590	2806	2559
116	2353	2685	2680	2716	2940	2675
117	2509	2830	2797	2870	3093	2820
118	2664	2991	2952	3027	3221	2971
119	2805	3118	3107	3156	3308	3099
120	2900	3205	3229	3238	3388	3192
121	2985	3299	3304	3329	3516	3287
122	3107	3434	3400	3459	3662	3412
123	3257	3587	3534	3614	3796	3558
124	3397	3721	3686	3744	3881	3686
125	3498	3802	3812	3826	3962	3780
126	3562	3885	3894	3910	4074	3865
127	3661	4009	3975	4035	4209	3978
128	3797	4146	4100	4168	4324	4107
129	3945	4261	4232	4289	4409	4227
130	4044	4344	4346	4364	4478	4315
131	4107	4422	4422	4438	4576	4393
132	4190	4524	4500	4537	4676	4485
133	4310	4637	4597	4645	4775	4593
134	4432	4745	4709	4745	4846	4695
135	4520	4827	4804	4826	4912	4778
136	4584	4899	4884	4892	4982	4848
137	4666	4977	4947	4971	5065	4925
138	4771	5074	5023	5055	5146	5014
139	4871	5168	5108	5137	5222	5101
140	4960	5253	5199	5203	5277	5178
141	5032	5310	5267	5257	5335	5240
142	5098	5369	5324	5308	5407	5301
143	5174	5445	5378	5384	5494	5375
144	5261	5534	5462	5470	5572	5460
145	5349	5604	5546	5547	5633	5536
146	5421	5658	5623	5598	5688	5598
147	5474	5706	5676	5650	5763	5654
148	5532	5780	5731	5718	5842	5721
149	5610	5856	5804	5801	5915	5797
150	5693	5922	5886	5866	5962	5866

	N	O	P	Q	R	S
101	6877	7960	8009	7922	7783	7710
102	6931	8018	8046	7987	7725	7741
103	6958	8056	4960	7902	7451	7065
104	7007	7970	1425	7958	7452	6362
105	6878	7926	1646	8047	7353	6370
106	1714	7734	1730	7592	5852	4924
107	1432	1584	1785	1743	1451	1599
108	1668	1443	1901	1602	1666	1656
109	1899	1630	2051	1777	1768	1825
110	2079	1739	2240	1877	1859	1959
111	2190	1792	2401	1919	1966	2054
112	2300	1941	2510	2066	2110	2185
113	2443	2153	2574	2261	2303	2347
114	2629	2363	2668	2443	2486	2518
115	2805	2522	2846	2566	2602	2668
116	2946	2592	3038	2634	2661	2774
117	3054	2704	3192	2730	2756	2887
118	3178	2859	3271	2866	2925	3020
119	3336	3050	3352	3031	3101	3174
120	3510	3237	3502	3204	3251	3341
121	3658	3365	3672	3313	3321	3466
122	3763	3448	3820	3374	3398	3561
123	3862	3561	3913	3458	3514	3662
124	4006	3732	4003	3617	3672	3806
125	4176	3899	4116	3769	3808	3954
126	4327	4021	4258	3875	3895	4075
127	4442	4105	4383	3937	3961	4166
128	4547	4213	4487	4031	4065	4269
129	4672	4361	4584	4150	4195	4392
130	4815	4505	4697	4274	4317	4522
131	4958	4623	4812	4366	4401	4632
132	5078	4719	4931	4454	4484	4733
133	5185	4827	5034	4554	4584	4837
134	5298	4941	5132	4664	4694	4946
135	5415	5060	5223	4771	4794	5053
136	5535	5169	5322	4878	4887	5158
137	5642	5275	5417	4974	4975	5257
138	5735	5369	5514	5066	5068	5350
139	5828	5475	5591	5155	5156	5441
140	5932	5577	5665	5251	5251	5535
141	6017	5684	5742	5346	5343	5626
142	6083	5774	5836	5435	5428	5711
143	6144	5855	5925	5508	5499	5786
144	6205	5934	6009	5584	5579	5862
145	6266	6033	6084	5663	5661	5941
146	6332	6132	6169	5752	5757	6028
147	6401	6225	6259	5830	5840	6111
148	6466	6297	6341	5900	5916	6184
149	6531	6377	6392	5975	5996	6254
150	6598	6459	6444	6068	6084	6331

	T	U	V	W	X	Y
101	7372	6904	7288	7961	8175	7540
102	7462	7149	7518	8151	8323	7721
103	7551	7360	7721	8328	8426	7877
104	7671	7546	7905	8493	8187	7960
105	7783	7736	8081	8654	8193	8089
106	7862	7928	8234	5411	8426	7572
107	7994	8115	8343	1426	8641	6904
108	8136	8292	8409	1633	8834	7061
109	8218	8427	8582	1700	9016	7189
110	3012	6712	8672	1758	9188	5868
111	1466	1508	2095	1878	4686	2327
112	1474	1589	1492	2009	1402	1593
113	1508	1442	1477	2163	1406	1599
114	1510	1575	1462	2291	1631	1694
115	1642	1755	1486	2378	1910	1834
116	1879	2013	1632	2425	2016	1993
117	2096	2153	1843	2494	2089	2135
118	2207	2258	2036	2629	2218	2270
119	2254	2366	2124	2766	2379	2378
120	2396	2495	2165	2866	2554	2495
121	2570	2665	2300	2908	2702	2629
122	2739	2820	2477	2964	2805	2761
123	2857	2933	2621	3072	2875	2872
124	2941	2997	2712	3198	2953	2960
125	3035	3087	2766	3310	3098	3059
126	3142	3231	2852	3387	3240	3170
127	3293	3378	2957	3466	3350	3289
128	3447	3490	3084	3565	3399	3397
129	3554	3556	3203	3692	3473	3496
130	3608	3626	3280	3800	3606	3584
131	3686	3732	3323	3885	3735	3672
132	3834	3861	3395	3966	3842	3780
133	3977	3974	3527	4067	3906	3890
134	4066	4039	3652	4165	3989	3982
135	4119	4092	3728	4263	4094	4059
136	4202	4175	3780	4343	4203	4141
137	4315	4282	3863	4426	4293	4236
138	4426	4377	3981	4510	4370	4333
139	4512	4446	4088	4601	4443	4418
140	4582	4506	4175	4681	4530	4495
141	4666	4589	4247	4764	4615	4576
142	4754	4674	4341	4836	4702	4661
143	4844	4760	4436	4904	4781	4745
144	4919	4823	4534	4974	4857	4821
145	4996	4885	4617	5050	4934	4896
146	5073	4951	4701	5117	5014	4971
147	5152	5021	4774	5179	5094	5044
148	5233	5089	4855	5232	5169	5116
149	5315	5164	4935	5299	5236	5190
150	5392	5231	5012	5369	5304	5262

	Z	AA	AB	AC	AD	AE
101	3018	2578	2458	2317	2187	2512
102	3140	2687	2557	2419	2279	2616
103	3245	2811	2671	2517	2371	2723
104	3345	2948	2783	2627	2487	2838
105	3467	3086	2905	2742	2607	2961
106	3588	3197	3004	2859	2712	3072
107	3707	3291	3098	2958	2790	3169
108	3806	3395	3194	3046	2883	3265
109	3914	3522	3312	3142	2994	3377
110	4024	3638	3416	3252	3104	3487
111	4135	3739	3509	3354	3189	3585
112	4228	3833	3591	3442	3273	3673
113	4318	3938	3693	3524	3365	3768
114	4407	4042	3786	3617	3463	3863
115	4507	4133	3875	3709	3544	3954
116	4594	4213	3946	3791	3618	4032
117	4674	4298	4029	3857	3694	4110
118	4751	4385	4112	3935	3779	4192
119	4842	4470	4193	4020	3850	4275
120	4920	4543	4257	4097	3915	4346
121	4998	4620	4333	4168	3988	4421
122	5065	4704	4407	4242	4072	4498
123	5143	4786	4487	4321	4147	4577
124	5216	4852	4549	4393	4218	4646
125	5289	4919	4618	4457	4280	4713
126	5349	4988	4685	4521	4349	4778
127	5422	5065	4760	4586	4409	4848
128	5496	5132	4823	4654	4473	4916
129	5572	5195	4886	4715	4527	4979
130	5636	5258	4945	4772	4584	5039
131	5699	5325	5014	4827	4642	5101
132	5755	5390	5073	4889	4705	5162
133	5821	5452	5134	4949	4761	5223
134	5880	5506	5184	5006	4820	5279
135	5943	5562	5241	5057	4873	5335
136	5996	5619	5296	5113	4932	5391
137	6057	5680	5355	5174	4991	5451
138	6113	5736	5406	5232	5047	5507
139	6175	5791	5465	5285	5097	5563
140	6228	5846	5519	5339	5156	5618
141	6282	5905	5579	5395	5209	5674
142	6324	5961	5631	5453	5269	5728
143	6373	6013	5688	5509	5320	5781
144	6416	6064	5739	5563	5374	5831
145	6465	6119	5801	5615	5429	5886
146	6514	6174	5850	5674	5488	5940
147	6568	6226	5905	5728	5541	5994
148	6616	6275	5958	5783	5598	6046
149	6665	6316	6022	5834	5649	6097
150	6704	6357	6078	5888	5707	6147

	B	C	D	E	F	G
151	7507	7519	7313	7382	7199	7384
152	7569	7587	7369	7430	7259	7443
153	7621	7638	7416	7485	7312	7494
154	7655	7685	7469	7540	7359	7542
155	7697	7731	7524	7599	7415	7593
156	7746	7785	7584	7646	7475	7647
157	7799	7834	7634	7691	7535	7699
158	7844	7886	7680	7731	7582	7745
159	7883	7932	7726	7783	7630	7791
160	7923	7981	7776	7831	7672	7837
161	7968	8024	7827	7881	7722	7884
162	8013	8073	7882	7924	7772	7933
163	8063	8122	7928	7969	7825	7981
164	8108	8174	7975	8012	7870	8028
165	8156	8215	8016	8061	7914	8072
166	8202	8261	8066	8106	7955	8118
167	8251	8346	8117	8155	8006	8175
168	8342	8510	8169	8196	8053	8254
169	8495	8652	8213	8242	8099	8340
170	8623	8777	8258	8287	8139	8417
171	8738	8888	8299	8418	8181	8505
172	8848	9011	8421	8559	8225	8613
173	8968	9134	8574	8685	8293	8731
174	9084	9263	8702	8802	8402	8851
175	9187	9371	8818	8926	8534	8967
176	9282	9478	8936	9041	8656	9079
177	9389	9585	9054	9153	8783	9193
178	9504	9707	9169	9247	8901	9306
179	9623	9820	9271	9349	9013	9415
180	9732	9931	9371	9446	9104	9517
181	9834	10029	9471	9549	9205	9618
182	9942	10137	9578	9646	9299	9720
183	10061	10241	9678	9738	9402	9824
184	10179	10350	9778	9826	9492	9925
185	10294	10449	9870	9918	9583	10023
186	10399	10553	9961	10006	9664	10117
187	10506	10643	10051	10101	9753	10211
188	10616	10743	10144	10192	9837	10306
189	10729	10838	10237	10281	9930	10403
190	10836	10939	10328	10365	10013	10496
191	10939	11031	10413	10457	10101	10588
192	11036	11129	10499	10545	10183	10678
193	11133	11216	10588	10643	10272	10770
194	11234	11313	10683	10734	10364	10866
195	11338	11407	10777	10830	10467	10964
196	11441	11511	10873	10924	10562	11062
197	11543	11605	10965	11034	10661	11162
198	11643	11710	11068	11142	10759	11264
199	11747	11811	11175	11258	10875	11373
200	11858	11930	11291	11369	10990	11488

	H	I	J	K	L	M
151	5754	5965	5945	5920	6015	5920
152	5793	6017	5991	5975	6078	5971
153	5847	6076	6038	6051	6148	6032
154	5917	6148	6110	6120	6209	6101
155	5991	6206	6182	6186	6265	6166
156	6042	6259	6250	6239	6316	6221
157	6086	6314	6302	6293	6377	6274
158	6141	6376	6364	6352	6436	6334
159	6206	6436	6424	6418	6503	6397
160	6269	6501	6499	6479	6562	6462
161	6325	6559	6565	6540	6619	6522
162	6375	6619	6631	6591	6669	6577
163	6434	6672	6682	6650	6731	6634
164	6492	6738	6746	6714	6795	6697
165	6554	6796	6810	6785	6862	6761
166	6603	6846	6871	6847	6912	6816
167	6644	6886	6914	6901	6964	6862
168	6683	6929	6958	6943	7019	6906
169	6727	6976	6998	6987	7065	6951
170	6773	7031	7047	7031	7107	6998
171	6827	7082	7096	7080	7152	7047
172	6877	7134	7151	7125	7190	7095
173	6923	7179	7194	7170	7223	7138
174	6967	7231	7238	7216	7244	7179
175	7019	7279	7282	7265	7271	7223
176	7069	7333	7333	7306	7303	7269
177	7120	7380	7378	7346	7337	7312
178	7163	7425	7422	7369	7371	7350
179	7207	7465	7458	7379	7411	7384
180	7252	7509	7503	7408	7446	7424
181	7301	7551	7529	7449	7484	7463
182	7347	7594	7473	7487	7517	7484
183	7393	7632	7517	7524	7558	7525
184	7436	7673	7569	7563	7592	7567
185	7483	7707	7611	7605	7635	7608
186	7527	7745	7655	7645	7679	7650
187	7573	7709	7699	7692	7728	7680
188	7616	7742	7739	7736	7759	7718
189	7660	7790	7776	7770	7802	7760
190	7700	7839	7820	7802	7845	7801
191	7745	7883	7859	7848	7896	7846
192	7786	7930	7905	7891	7937	7890
193	7802	7979	7952	7936	7979	7930
194	7747	8030	8002	7976	8021	7955
195	7810	8073	8043	8027	8066	8004
196	7866	8119	8090	8073	8109	8051
197	7918	8167	8132	8118	8154	8098
198	7968	8294	8183	8161	8258	8173
199	8012	8431	8292	8239	8410	8277
200	8058	8562	8432	8379	8539	8394

	N	O	P	Q	R	S
151	6666	6525	6491	6154	6153	6398
152	6740	6577	6547	6212	6202	6456
153	6811	6630	6599	6258	6245	6509
154	6872	6677	6652	6305	6291	6559
155	6929	6730	6699	6350	6338	6609
156	6986	6780	6749	6402	6387	6661
157	7043	6836	6798	6450	6434	6712
158	7101	6884	6849	6499	6477	6762
159	7155	6931	6898	6544	6521	6810
160	7206	6976	6949	6590	6565	6857
161	7257	7023	6990	6633	6610	6903
162	7309	7067	7031	6682	6657	6949
163	7359	7113	7068	6728	6703	6994
164	7402	7152	7114	6775	6748	7038
165	7404	7193	7152	6817	6788	7071
166	7424	7222	7195	6860	6833	7107
167	7459	7240	7232	6902	6873	7141
168	7498	7256	7271	6946	6913	7177
169	7531	7290	7305	6984	6948	7212
170	7571	7320	7341	7024	6979	7247
171	7610	7360	7378	7055	7009	7282
172	7651	7394	7415	7090	7045	7319
173	7688	7437	7442	7124	7075	7353
174	7730	7466	7463	7162	7108	7386
175	7770	7506	7489	7195	7140	7420
176	7811	7546	7525	7231	7174	7457
177	7849	7588	7563	7265	7208	7495
178	7891	7625	7604	7303	7245	7534
179	7984	7663	7639	7338	7281	7581
180	8129	7700	7681	7376	7322	7642
181	8259	7742	7718	7410	7358	7697
182	8373	7780	7756	7443	7398	7750
183	8479	7821	7788	7448	7435	7794
184	8578	7858	7821	7473	7474	7841
185	8672	7900	7854	7511	7509	7889
186	8761	7999	7922	7555	7544	7956
187	8848	8129	8048	7591	7551	8033
188	8927	8239	8167	7625	7572	8106
189	9012	8349	8267	7658	7606	8178
190	9093	8446	8364	7696	7644	8249
191	9178	8542	8450	7734	7684	8318
192	9261	8625	8537	7809	7745	8395
193	9344	8709	8614	7925	7856	8490
194	9428	8788	8690	8041	7976	8585
195	9517	8868	8767	8142	8077	8674
196	9609	8942	8845	8236	8171	8761
197	9706	9021	8917	8321	8256	8844
198	9811	9099	8993	8406	8343	8930
199	9921	9179	9065	8485	8420	9014
200	10035	9253	9145	8566	8500	9100

	T	U	V	W	X	Y
151	5469	5296	5079	5438	5373	5331
152	5544	5357	5145	5491	5448	5397
153	5620	5427	5208	5546	5510	5462
154	5702	5500	5284	5596	5565	5529
155	5771	5562	5352	5653	5614	5590
156	5830	5614	5417	5706	5680	5649
157	5888	5669	5470	5758	5751	5707
158	5956	5736	5529	5805	5819	5769
159	6026	5799	5590	5859	5870	5829
160	6088	5854	5656	5909	5925	5886
161	6141	5900	5708	5966	5978	5939
162	6195	5949	5758	6022	6037	5992
163	6249	6001	5798	6082	6092	6044
164	6291	6052	5855	6134	6149	6096
165	6328	6098	5905	6188	6199	6144
166	6367	6144	5957	6243	6251	6192
167	6404	6191	6003	6300	6303	6240
168	6445	6236	6053	6360	6358	6290
169	6483	6273	6100	6415	6410	6336
170	6522	6310	6155	6465	6465	6383
171	6558	6347	6201	6522	6516	6429
172	6598	6386	6253	6562	6570	6474
173	6637	6426	6301	6608	6621	6519
174	6675	6467	6351	6649	6679	6564
175	6710	6507	6397	6693	6731	6608
176	6746	6548	6445	6735	6786	6652
177	6783	6590	6480	6779	6829	6692
178	6817	6630	6525	6820	6854	6729
179	6849	6669	6565	6862	6867	6762
180	6879	6711	6610	6902	6897	6800
181	6909	6753	6651	6941	6929	6837
182	6940	6793	6692	6974	6965	6873
183	6969	6832	6732	7008	6999	6908
184	6998	6869	6775	7041	7039	6944
185	7031	6903	6815	7074	7076	6980
186	7064	6938	6859	7104	7120	7017
187	7095	6971	6895	7140	7157	7052
188	7127	7002	6933	7174	7191	7085
189	7158	7036	6968	7208	7222	7118
190	7189	7070	7003	7242	7256	7152
191	7222	7103	7036	7283	7291	7187
192	7254	7137	7070	7316	7331	7222
193	7287	7168	7101	7354	7367	7255
194	7321	7200	7140	7391	7400	7290
195	7355	7233	7171	7429	7435	7325
196	7387	7260	7203	7465	7477	7358
197	7419	7288	7233	7510	7509	7392
198	7452	7321	7271	7550	7551	7429
199	7487	7356	7306	7595	7595	7468
200	7520	7391	7346	7634	7639	7506

	Z	AA	AB	AC	AD	AE
151	6747	6404	6135	5946	5757	6198
152	6783	6452	6183	6004	5812	6247
153	6821	6500	6236	6054	5862	6295
154	6857	6548	6286	6111	5915	6343
155	6893	6597	6344	6168	5965	6393
156	6924	6639	6387	6228	6021	6440
157	6963	6683	6430	6284	6074	6487
158	6995	6720	6470	6340	6134	6532
159	7030	6756	6518	6393	6196	6579
160	7059	6790	6562	6451	6261	6625
161	7093	6827	6610	6510	6322	6672
162	7125	6861	6650	6567	6385	6718
163	7164	6894	6691	6608	6437	6759
164	7195	6927	6727	6650	6496	6799
165	7232	6963	6765	6689	6554	6841
166	7266	6997	6797	6726	6612	6880
167	7306	7030	6832	6760	6652	6916
168	7337	7063	6863	6795	6693	6950
169	7378	7098	6898	6831	6728	6987
170	7410	7131	6931	6865	6764	7020
171	7448	7166	6968	6899	6795	7055
172	7481	7200	6999	6934	6828	7088
173	7520	7236	7034	6966	6856	7122
174	7555	7268	7066	6994	6891	7155
175	7593	7298	7103	7026	6923	7189
176	7629	7321	7132	7063	6961	7221
177	7668	7355	7171	7098	6997	7258
178	7702	7392	7204	7133	7034	7293
179	7791	7433	7244	7172	7072	7342
180	7905	7472	7276	7213	7112	7396
181	8011	7513	7310	7248	7155	7447
182	8111	7552	7334	7289	7196	7496
183	8219	7592	7369	7329	7230	7548
184	8323	7630	7403	7370	7278	7601
185	8435	7703	7448	7411	7317	7663
186	8540	7813	7486	7452	7359	7730
187	8652	7911	7533	7494	7398	7798
188	8760	8003	7571	7536	7441	7862
189	8873	8098	7618	7576	7481	7929
190	8979	8196	7695	7619	7525	8003
191	9092	8301	7841	7658	7566	8092
192	9199	8408	7969	7741	7610	8185
193	9313	8519	8097	7899	7650	8296
194	9419	8630	8210	8035	7707	8400
195	9533	8744	8330	8160	7846	8523
196	9640	8857	8437	8275	7992	8640
197	9755	8978	8553	8387	8115	8758
198	9863	9095	8662	8495	8237	8870
199	9972	9219	8776	8603	8345	8983
200	10079	9333	8880	8707	8457	9091

	B	C	D	E	F	G
201	11972	12049	11408	11491	11115	11607
202	12080	12178	11531	11617	11227	11727
203	12192	12296	11656	11751	11353	11850
204	12302	12430	11787	11877	11475	11974
205	12425	12557	11918	12011	11614	12105
206	12549	12697	12049	12138	11740	12235
207	12678	12825	12179	12274	11873	12366
208	12802	12963	12310	12404	11997	12495
209	12935	13091	12443	12542	12134	12629
210	13072	13232	12579	12673	12262	12764
211	13215	13362	12711	12806	12399	12899
212	13354	13502	12845	12933	12526	13032
213	13493	13633	12979	13070	12661	13167
214	13630	13774	13114	13202	12786	13301
215	13768	13900	13246	13341	12921	13435
216	13907	14038	13382	13467	13047	13568
217	14049	14170	13515	13604	13185	13705
218	14189	14314	13650	13730	13307	13838
219	14331	14444	13778	13867	13439	13972
220	14467	14583	13913	13998	13561	14104
221	14607	14711	14049	14131	13699	14239
222	14747	14852	14184	14257	13824	14373
223	14890	14983	14313	14394	13960	14508
224	15029	15119	14444	14521	14081	14639
225	15167	15246	14574	14657	14214	14772
226	15303	15386	14710	14783	14340	14904
227	15444	15515	14843	14914	14478	15039
228	15584	15654	14971	15040	14601	15170
229	15723	15779	15100	15177	14735	15303
230	15856	15913	15231	15301	14856	15431
231	15992	16038	15360	15435	14990	15563
232	16130	16175	15490	15562	15113	15694
233	16270	16303	15620	15695	15247	15827
234	16408	16438	15750	15820	15371	15957
235	16541	16561	15878	15954	15507	16088
236	16674	16697	16011	16083	15628	16219
237	16810	16820	16144	16216	15762	16350
238	16942	16957	16276	16342	15886	16481
239	17076	17082	16411	16478	16018	16613
240	17207	17220	16545	16603	16143	16744
241	17340	17342	16679	16737	16283	16876
242	17472	17476	16810	16867	16409	17007
243	17603	17597	16946	17002	16548	17139
244	17735	17735	17082	17127	16676	17271
245	17867	17862	17218	17265	16816	17406
246	18000	18000	17352	17395	16946	17539
247	18130	18122	17485	17540	17085	17672
248	18264	18260	17622	17674	17215	17807
249	18397	18387	17759	17813	17363	17944
250	18531	18527	17895	17948	17498	18080

	H	I	J	K	L	M
201	8119	8680	8557	8521	8666	8509
202	8259	8802	8684	8643	8779	8633
203	8401	8910	8799	8765	8895	8754
204	8524	9027	8921	8880	9003	8871
205	8644	9138	9029	9001	9119	8986
206	8753	9254	9150	9110	9227	9099
207	8868	9365	9262	9227	9336	9212
208	8975	9484	9380	9339	9434	9322
209	9080	9593	9492	9450	9538	9431
210	9185	9710	9605	9553	9637	9538
211	9298	9822	9708	9666	9750	9649
212	9407	9944	9828	9776	9858	9763
213	9520	10060	9941	9894	9971	9877
214	9626	10182	10060	10001	10084	9991
215	9738	10293	10167	10116	10204	10104
216	9850	10413	10283	10223	10323	10218
217	9965	10528	10395	10340	10447	10335
218	10081	10652	10515	10448	10560	10451
219	10202	10765	10627	10560	10681	10567
220	10315	10883	10743	10671	10796	10682
221	10434	10997	10851	10793	10918	10799
222	10550	11119	10972	10910	11035	10917
223	10677	11233	11087	11035	11158	11038
224	10796	11355	11212	11150	11273	11157
225	10913	11469	11325	11273	11399	11276
226	11027	11589	11451	11387	11516	11394
227	11152	11701	11568	11509	11638	11514
228	11270	11820	11696	11626	11760	11634
229	11394	11932	11813	11750	11886	11755
230	11514	12053	11939	11869	12000	11875
231	11643	12171	12057	11995	12127	11999
232	11768	12300	12183	12115	12250	12123
233	11896	12423	12298	12245	12381	12249
234	12024	12556	12430	12369	12504	12377
235	12159	12681	12551	12500	12631	12504
236	12284	12809	12680	12620	12757	12630
237	12418	12933	12802	12749	12884	12757
238	12544	13069	12933	12873	13007	12885
239	12675	13196	13055	13004	13136	13013
240	12800	13329	13189	13125	13257	13140
241	12932	13450	13310	13255	13386	13267
242	13059	13580	13444	13379	13514	13395
243	13194	13704	13567	13515	13647	13525
244	13325	13834	13704	13645	13771	13656
245	13456	13955	13827	13778	13904	13784
246	13582	14088	13957	13907	14026	13912
247	13715	14213	14078	14041	14157	14041
248	13844	14347	14212	14164	14282	14170
249	13979	14471	14332	14296	14410	14298
250	14104	14602	14470	14419	14533	14426

	N	O	P	Q	R	S
201	10159	9332	9226	8637	8572	9185
202	10278	9411	9321	8715	8650	9275
203	10405	9499	9412	8788	8721	9365
204	10526	9589	9511	8866	8795	9457
205	10648	9690	9607	8941	8867	9551
206	10772	9796	9711	9035	8943	9651
207	10901	9913	9818	9123	9015	9754
208	11028	10027	9934	9221	9100	9862
209	11157	10152	10047	9317	9183	9971
210	11285	10272	10170	9421	9279	10085
211	11410	10399	10291	9522	9370	10198
212	11537	10519	10416	9636	9467	10315
213	11667	10650	10537	9744	9560	10432
214	11794	10777	10667	9866	9660	10553
215	11925	10904	10788	9981	9758	10671
216	12053	11025	10916	10105	9872	10794
217	12181	11152	11041	10227	9985	10917
218	12308	11279	11171	10353	10106	11043
219	12435	11410	11294	10473	10223	11167
220	12563	11535	11421	10603	10348	11294
221	12695	11668	11543	10721	10469	11419
222	12822	11793	11671	10853	10598	11547
223	12949	11921	11793	10970	10718	11670
224	13076	12046	11917	11095	10854	11798
225	13201	12178	12034	11217	10980	11922
226	13327	12299	12161	11346	11114	12049
227	13456	12426	12284	11465	11239	12174
228	13577	12548	12411	11595	11366	12299
229	13703	12678	12533	11717	11490	12424
230	13828	12803	12661	11847	11623	12552
231	13954	12933	12782	11973	11747	12678
232	14075	13055	12910	12105	11877	12804
233	14202	13183	13033	12225	12000	12929
234	14323	13302	13159	12355	12130	13054
235	14451	13428	13282	12475	12252	13178
236	14570	13550	13409	12604	12383	13303
237	14695	13676	13527	12729	12506	13427
238	14817	13795	13654	12857	12635	13552
239	14939	13922	13776	12975	12754	13673
240	15057	14047	13901	13099	12882	13797
241	15178	14174	14019	13216	13001	13918
242	15297	14293	14145	13343	13128	14041
243	15417	14416	14268	13463	13248	14162
244	15533	14537	14391	13587	13372	14284
245	15652	14661	14511	13705	13492	14404
246	15771	14783	14635	13830	13618	14527
247	15891	14908	14757	13949	13737	14648
248	16010	15028	14882	14078	13861	14772
249	16130	15152	15003	14198	13977	14892
250	16249	15272	15130	14322	14102	15015

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201	7549	7429	7383	7673	7678	7542
202	7565	7470	7424	7712	7722	7579
203	7597	7508	7463	7757	7767	7618
204	7637	7543	7506	7796	7810	7658
205	7679	7577	7538	7843	7851	7698
206	7726	7614	7576	7952	7895	7753
207	7830	7655	7608	8092	7945	7826
208	7944	7697	7647	8210	8074	7914
209	8045	7765	7686	8324	8207	8005
210	8144	7897	7730	8432	8328	8106
211	8241	8017	7773	8542	8443	8203
212	8338	8131	7859	8643	8555	8305
213	8433	8235	7994	8752	8665	8416
214	8533	8337	8116	8856	8772	8523
215	8630	8440	8223	8957	8880	8626
216	8732	8541	8332	9064	8990	8732
217	8834	8642	8433	9174	9102	8837
218	8939	8741	8537	9287	9219	8945
219	9046	8842	8638	9404	9333	9053
220	9154	8940	8743	9516	9451	9161
221	9261	9041	8844	9635	9568	9270
222	9374	9142	8951	9749	9689	9381
223	9480	9246	9052	9869	9806	9491
224	9589	9353	9163	9985	9925	9603
225	9695	9458	9269	10106	10040	9714
226	9805	9564	9381	10224	10161	9827
227	9915	9675	9488	10343	10277	9940
228	10030	9788	9605	10457	10394	10055
229	10142	9903	9718	10575	10508	10169
230	10256	10022	9843	10694	10628	10289
231	10372	10140	9960	10815	10739	10405
232	10489	10261	10080	10930	10857	10523
233	10611	10386	10198	11050	10973	10644
234	10735	10511	10322	11164	11088	10764
235	10858	10637	10442	11280	11202	10884
236	10979	10762	10568	11399	11316	11005
237	11103	10889	10685	11518	11434	11126
238	11230	11019	10808	11635	11551	11249
239	11357	11147	10928	11755	11665	11370
240	11484	11275	11055	11868	11781	11493
241	11611	11404	11177	11990	11896	11616
242	11740	11532	11302	12110	12015	11740
243	11867	11659	11422	12227	12132	11861
244	11996	11788	11547	12340	12251	11984
245	12123	11918	11667	12459	12368	12107
246	12252	12046	11793	12574	12490	12231
247	12381	12174	11915	12695	12606	12354
248	12514	12303	12042	12811	12725	12479
249	12643	12430	12162	12929	12842	12601
250	12776	12557	12290	13044	12962	12726

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201	10195	9453	8990	8809	8559	9201
202	10304	9566	9094	8909	8661	9307
203	10422	9683	9202	9012	8757	9415
204	10533	9796	9301	9110	8859	9520
205	10651	9909	9411	9211	8954	9627
206	10758	10020	9513	9310	9059	9732
207	10877	10138	9627	9414	9155	9842
208	10984	10249	9727	9514	9260	9947
209	11104	10367	9838	9615	9360	10057
210	11216	10479	9941	9714	9463	10163
211	11332	10598	10050	9819	9563	10272
212	11442	10710	10151	9919	9671	10379
213	11560	10825	10261	10021	9767	10487
214	11668	10937	10359	10123	9875	10592
215	11785	11054	10465	10226	9972	10700
216	11895	11165	10561	10328	10078	10805
217	12014	11280	10671	10434	10177	10915
218	12126	11390	10769	10536	10282	11021
219	12243	11507	10879	10647	10382	11132
220	12354	11617	10980	10756	10490	11239
221	12472	11732	11094	10869	10592	11352
222	12583	11839	11200	10983	10702	11461
223	12705	11955	11314	11099	10803	11575
224	12816	12061	11425	11211	10914	11685
225	12938	12174	11548	11323	11023	11801
226	13049	12281	11663	11434	11142	11914
227	13170	12396	11785	11551	11255	12031
228	13276	12501	11898	11663	11374	12142
229	13395	12614	12021	11779	11487	12259
230	13505	12723	12135	11896	11611	12374
231	13626	12836	12258	12013	11730	12493
232	13739	12944	12370	12128	11851	12606
233	13859	13057	12494	12247	11967	12725
234	13970	13167	12606	12365	12091	12840
235	14091	13284	12729	12486	12207	12959
236	14204	13393	12842	12603	12330	13074
237	14329	13509	12967	12725	12445	13195
238	14443	13620	13083	12843	12565	13311
239	14565	13739	13211	12967	12684	13433
240	14677	13851	13329	13087	12810	13551
241	14798	13969	13459	13212	12931	13674
242	14910	14079	13577	13334	13057	13791
243	15034	14198	13706	13458	13175	13914
244	15143	14312	13826	13578	13301	14032
245	15267	14434	13961	13704	13423	14158
246	15378	14554	14077	13826	13551	14277
247	15502	14678	14206	13951	13674	14402
248	15613	14794	14324	14072	13801	14521
249	15735	14919	14455	14200	13925	14647
250	15847	15038	14579	14325	14059	14770

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251	18661	18656	18035	18092	17640	18217
252	18791	18797	18173	18231	17771	18353
253	18923	18929	18312	18374	17916	18491
254	19055	19071	18451	18510	18054	18628
255	19187	19204	18591	18654	18199	18767
256	19320	19351	18731	18789	18334	18905
257	19453	19486	18871	18938	18480	19046
258	19581	19634	19015	19077	18616	19185
259	19713	19769	19161	19223	18765	19326
260	19847	19917	19305	19362	18908	19468
261	19982	20053	19456	19511	19059	19612
262	20114	20199	19604	19654	19195	19753
263	20245	20335	19750	19805	19345	19896
264	20377	20485	19900	19945	19484	20038
265	20511	20626	20053	20098	19636	20185
266	20646	20778	20204	20244	19777	20330
267	20780	20918	20359	20400	19931	20478
268	20913	21069	20514	20544	20076	20623
269	21051	21209	20669	20697	20231	20771
270	21184	21363	20827	20844	20375	20919
271	21326	21504	20984	20999	20530	21069
272	21463	21658	21139	21147	20676	21217
273	21602	21798	21297	21303	20832	21366
274	21739	21953	21452	21454	20981	21516
275	21877	22096	21614	21610	21141	21668
276	22015	22253	21772	21760	21288	21818
277	22155	22397	21926	21921	21450	21970
278	22293	22556	22079	22071	21600	22120
279	22433	22702	22232	22230	21763	22272
280	22573	22862	22384	22385	21914	22424
281	22712	23008	22539	22548	22080	22577
282	22855	23166	22690	22702	22233	22729
283	22996	23307	22845	22862	22397	22881
284	23141		22998	23013	22550	
285	23285		23151	23174	22715	
286	23427		23299	23326	22869	
287			23455		23036	
288					23191	
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251	14238	14727	14595	14549	14666	14555
252	14362	14863	14729	14668	14789	14682
253	14498	14991	14850	14802	14920	14812
254	14625	15127	14984	14924	15045	14941
255	14757	15250	15102	15058	15179	15069
256	14884	15381	15233	15182	15300	15196
257	15020	15501	15353	15311	15429	15323
258	15145	15633	15483	15434	15555	15450
259	15281	15758	15606	15564	15689	15580
260	15407	15891	15744	15689	15815	15709
261	15542	16016	15867	15825	15946	15839
262	15666	16146	16003	15951	16074	15968
263	15803	16272	16124	16084	16211	16099
264	15927	16407	16255	16213	16341	16229
265	16060	16530	16375	16350	16476	16358
266	16187	16666	16507	16473	16601	16487
267	16318	16790	16630	16605	16738	16616
268	16440	16922	16763	16732	16864	16744
269	16574	17047	16885	16869	16998	16875
270	16698	17184	17021	16996	17125	17005
271	16828	17311	17142	17130	17263	17135
272	16948	17446	17275	17254	17391	17263
273	17077	17572	17399	17393	17526	17393
274	17195	17708	17535	17516	17660	17523
275	17324	17835	17659	17652	17795	17653
276	17445	17975	17794	17780	17921	17783
277	17576	18105	17919	17917	18059	17915
278	17697	18246	18059	18049	18189	18048
279	17830	18378	18190	18187	18329	18183
280	17964	18523	18330	18319	18464	18320
281	18105	18656	18464	18464	18610	18460
282	18238	18798	18608	18598	18748	18598
283	18377	18930	18739	18747	18901	18739
284	18506	19074	18884	18882	19052	18880
285	18646	19205	19015	19035	19206	19021
286	18780	19349	19159	19182	19358	19166
287	18918	19483	19294	19340	19515	19310
288	19052	19635	19453	19488	19664	19458
289	19192	19775	19602	19650	19827	19609
290	19326	19933	19763	19799	19979	19760
291	19469	20084	19911	19958	20143	19913
292	19602	20245	20073	20111	20296	20065
293	19744	20396	20222	20275	20457	20219
294	19878	20561	20384	20425	20612	20372
295	20018	20711	20534	20592	20772	20525
296	20152	20875	20699	20747	20930	20681
297	20297	21027	20848	20916	21094	20836
298	20429	21190	21013	21076	21252	20992
299	20576	21343	21167	21243	21419	21150
300	20713	21508	21337	21400	21580	21308

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251	16366	15399	15252	14444	14222	15137
252	16483	15523	15379	14567	14349	15260
253	16605	15648	15501	14686	14472	15382
254	16725	15768	15631	14818	14600	15508
255	16847	15895	15759	14942	14719	15632
256	16967	16015	15893	15079	14853	15761
257	17092	16138	16018	15206	14980	15887
258	17214	16261	16149	15339	15112	16015
259	17340	16388	16276	15465	15238	16141
260	17464	16514	16406	15599	15372	16271
261	17591	16643	16534	15726	15494	16398
262	17716	16767	16668	15861	15631	16529
263	17845	16896	16795	15986	15758	16656
264	17966	17022	16928	16124	15891	16786
265	18096	17154	17059	16254	16021	16917
266	18223	17281	17193	16391	16153	17048
267	18352	17414	17325	16519	16280	17178
268	18477	17543	17460	16654	16415	17310
269	18611	17675	17594	16783	16541	17441
270	18740	17803	17734	16920	16676	17575
271	18871	17936	17868	17050	16806	17706
272	19000	18068	18004	17186	16940	17840
273	19134	18200	18137	17313	17067	17970
274	19264	18331	18274	17451	17202	18104
275	19399	18465	18409	17579	17331	18237
276	19528	18597	18548	17718	17471	18372
277	19660	18734	18682	17848	17598	18504
278	19789	18867	18823	17984	17740	18641
279	19921	19009	18959	18110	17872	18774
280	20050	19146	19103	18248	18010	18911
281	20182	19282	19239	18375	18139	19043
282	20311	19418	19379	18516	18278	19180
283	20446	19558	19516	18644	18408	19314
284	20573	19694	19652	18785	18547	19450
285	20706	19831	19787	18917	18680	19584
286	20833	19965	19926	19061	18819	19721
287	20962	20106	20068	19196	18955	19857
288	21090	20247	20213	19339	19097	19997
289	21229	20388	20351	19472	19230	20134
290	21360	20524	20498	19618	19374	20275
291	21494	20665	20641	19754	19509	20413
292	21623	20804	20788	19898	19653	20553
293	21758	20946	20928	20033	19788	20691
294	21889	21086	21075	20180	19933	20833
295	22025	21230	21219	20317	20071	20972
296	22157	21371	21367	20467	20218	21116
297	22291	21518	21513	20608	20353	21257
298	22422	21665	21665	20760	20500	21402
299	22557	21813	21817	20901	20640	21546
300	22685	21960	21982	21052	20788	21693

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252	13040	12808	12536	13275	13195	12971
253	13172	12935	12656	13395	13310	13094
254	13307	13060	12779	13510	13427	13217
255	13439	13184	12898	13627	13541	13338
256	13572	13308	13020	13744	13658	13460
257	13704	13431	13136	13864	13776	13582
258	13834	13556	13257	13985	13897	13706
259	13964	13679	13373	14105	14015	13827
260	14098	13802	13499	14228	14135	13952
261	14225	13925	13617	14356	14256	14076
262	14358	14050	13737	14480	14382	14201
263	14489	14172	13852	14604	14507	14325
264	14621	14298	13980	14729	14633	14452
265	14749	14426	14096	14856	14759	14577
266	14882	14552	14217	14979	14886	14703
267	15014	14677	14335	15103	15013	14828
268	15146	14803	14457	15229	15140	14955
269	15275	14926	14577	15355	15267	15080
270	15408	15053	14701	15483	15395	15208
271	15538	15175	14817	15608	15523	15332
272	15671	15299	14943	15738	15651	15460
273	15800	15423	15063	15872	15780	15588
274	15933	15551	15189	16001	15910	15717
275	16060	15676	15309	16130	16038	15843
276	16194	15803	15437	16261	16166	15972
277	16321	15926	15561	16391	16297	16099
278	16453	16052	15693	16521	16427	16229
279	16582	16175	15817	16651	16559	16357
280	16714	16303	15949	16781	16689	16487
281	16839	16429	16071	16911	16818	16614
282	16973	16557	16201	17040	16949	16744
283	17100	16680	16323	17173	17078	16871
284	17234	16808	16452	17304	17208	17001
285	17363	16933	16575	17435	17339	17129
286	17497	17061	16706	17564	17474	17260
287	17626	17188	16833	17701	17611	17392
288	17757	17316	16968	17839	17744	17525
289	17884	17439	17095	17974	17876	17654
290	18016	17571	17227	18105	18012	17786
291	18146	17699	17355	18240	18144	17917
292	18281	17829	17493	18371	18280	18051
293	18410	17958	17619	18508	18416	18182
294	18545	18090	17753	18640	18557	18317
295	18673	18221	17886	18778	18706	18453
296	18811	18356	18023	18912	18857	18592
297	18943	18487	18156	19049	19008	18729
298	19079	18618	18297	19187	19158	18868
299	19207	18749	18427	19325	19309	19003
300	19341	18881	18568	19459	19466	19143

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251	15971	15162	14711	14455	14181	14896
252	16082	15281	14831	14582	14313	15018
253	16205	15406	14964	14711	14433	15144
254	16318	15528	15081	14837	14564	15266
255	16443	15653	15213	14972	14687	15394
256	16560	15774	15336	15096	14818	15517
257	16686	15902	15470	15227	14944	15646
258	16801	16024	15592	15355	15076	15770
259	16930	16153	15727	15486	15202	15900
260	17050	16275	15850	15612	15335	16024
261	17182	16402	15984	15744	15460	16154
262	17302	16526	16104	15870	15599	16280
263	17435	16654	16238	16004	15724	16411
264	17557	16775	16360	16130	15858	16536
265	17692	16903	16494	16263	15985	16667
266	17812	17025	16615	16391	16123	16793
267	17944	17155	16756	16525	16251	16926
268	18067	17279	16882	16652	16385	17053
269	18202	17413	17021	16787	16515	17188
270	18325	17539	17146	16918	16650	17316
271	18458	17669	17282	17052	16778	17448
272	18583	17792	17408	17181	16914	17576
273	18717	17926	17547	17320	17045	17711
274	18839	18052	17672	17452	17186	17840
275	18974	18185	17817	17590	17320	17977
276	19098	18320	17948	17723	17460	18110
277	19231	18460	18091	17865	17593	18248
278	19352	18589	18227	18000	17733	18380
279	19484	18729	18389	18141	17870	18523
280	19608	18859	18543	18279	18016	18661
281	19742	19001	18705	18419	18158	18805
282	19869	19137	18856	18558	18311	18946
283	20005	19281	19021	18699	18461	19093
284	20127	19433	19171	18837	18622	19238
285	20262	19594	19332	18983	18777	19390
286	20388	19743	19482	19125	18939	19535
287	20520	19904	19646	19272	19095	19687
288	20643	20058	19800	19415	19257	19835
289	20778	20222	19963	19570	19412	19989
290	20904	20377	20119	19714	19576	20138
291	21041	20539	20285	19867	19732	20293
292	21170	20694	20439	20016	19892	20442
293	21312	20853	20608	20172	20048	20599
294	21442	21009	20765	20327	20210	20751
295	21582	21173	20936	20487	20371	20910
296	21710	21325	21094	20652	20535	21063
297	21850	21489	21263	20826	20690	21224
298	21979	21646	21421	20993	20855	21379
299	22122	21809	21595	21165	21012	21541
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302	21012	21832	21664	21735	21916	21632
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304	21324	22150	21993	22072	22248	21957
305	21484	22306	22153	22244	22422	22122
306	21631	22477	22328	22406	22591	22287
307	21787	22638	22491	22584	22767	22453
308	21935	22808	22669	22751	22937	22620
309	22096	22968	22834	22929	23117	22789
310	22244	23139	23009	23093	23285	22954
311	22407	23296	23172	23270		
312	22553		23348	23434		
313	22714					
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	N	O	P	Q	R	S
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302	22947	22255	22306	21350	21079	21987
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304	23210	22553	22633	21648	21371	22283
305	23347	22700	22795	21793	21515	22430
306		22849	22964	21950	21668	
307		22999	23131	22097	21814	
308		23142	23299	22257	21964	
309		23288		22409	22109	
310		23431		22571	22266	
311				22721	22414	
312				22881	22571	
313				23030	22720	
314				23192	22879	
315				23338	23027	
316					23190	
317					23339	
318						
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331						

	T	U	V	W	X	Y
301	19470	19016	18710	19600	19621	19283
302	19604	19155	18865	19749	19774	19429
303	19737	19288	19015	19903	19927	19574
304	19883	19433	19170	20059	20080	19725
305	20017	19575	19317	20214	20235	19872
306	20167	19717	19470	20371	20388	20023
307	20318	19858	19627	20530	20542	20175
308	20474	20002	19785	20687	20697	20329
309	20619	20140	19937	20849	20855	20480
310	20772	20287	20094	21014	21015	20636
311	20921	20425	20247	21178	21173	20789
312	21076	20574	20405	21342	21332	20946
313	21222	20722	20558	21507	21495	21101
314	21378	20874	20715	21673	21658	21260
315	21526	21020	20869	21837	21820	21414
316	21680	21170	21027	22006	21982	21573
317	21829	21319	21182	22172	22149	21730
318	21983	21471	21344	22340	22311	21890
319	22135	21616	21503	22504	22477	22047
320	22290	21769	21667	22671	22643	22208
321	22436	21916	21825	22837	22807	22364
322	22591	22063	21988	23004	22971	22523
323	22735	22209	22154	23164	23138	22680
324	22890	22362	22321	23327	23306	22841
325	23035	22510	22484			
326	23192	22667	22656			
327	23340	22816	22823			
328		22974	22992			
329		23127	23158			
330		23286	23329			
331		23447				

	Z	AA	AB	AC	AD	AE
301	22398	22131	21922	21504	21333	21858
302	22530	22285	22078	21669	21500	22012
303	22674	22451	22249	21838	21658	22174
304	22806	22609	22404	22001	21827	22329
305	22950	22774	22571	22172	21988	22491
306	23078	22933	22724	22333	22158	22645
307	23219	23097	22890	22500	22320	22805
308	23350	23251	23042	22659	22486	22958
309		23417	23206	22825	22648	
310			23355	22982	22812	
311				23147	22969	
312				23301	23134	
313					23292	
314					23453	
315						
316						
317						
318						
319						
320						
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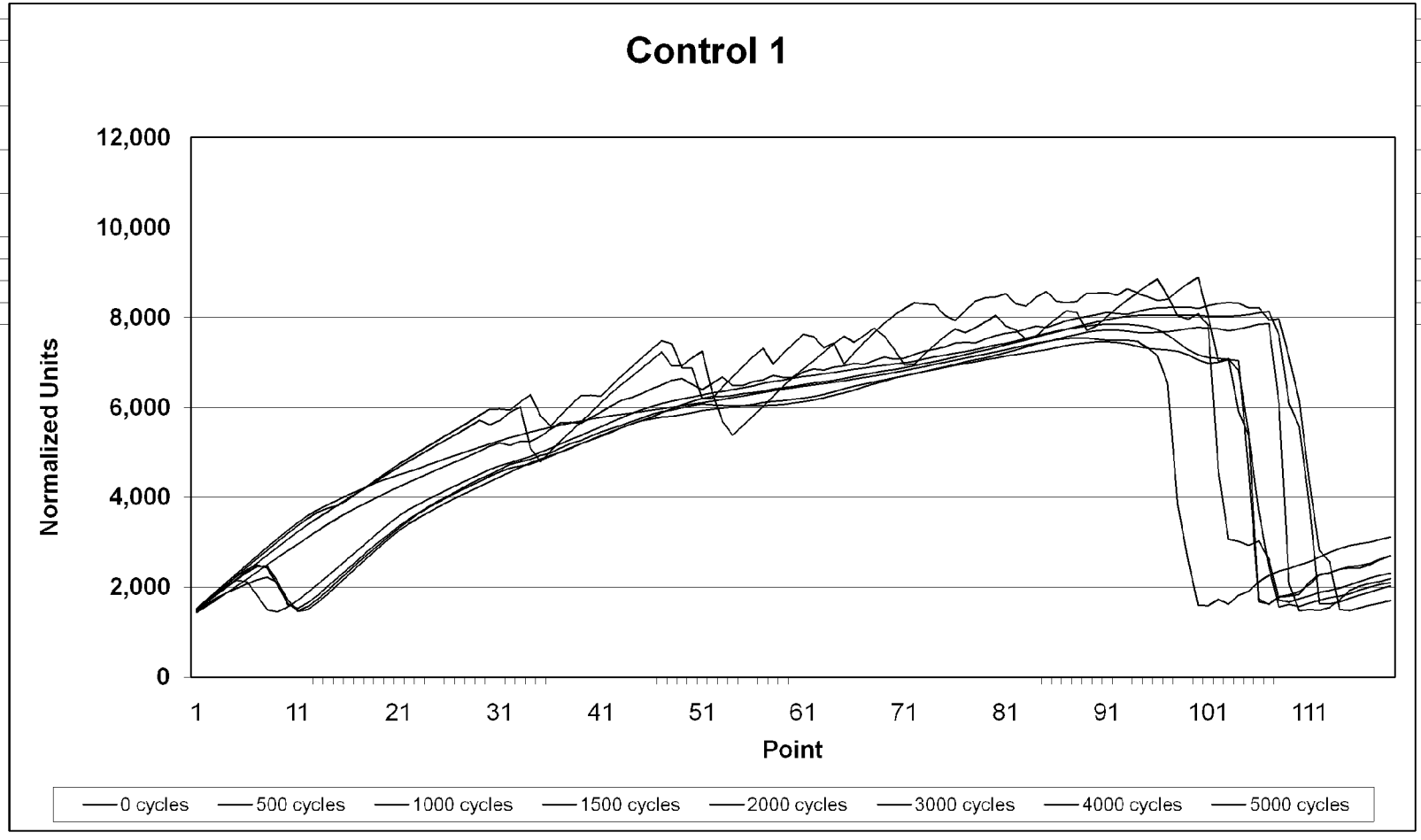
327						
328						
329						
330						
331						

	A
1	File:
2	Make:
3	Model:
4	Step Size [inch]:
5	Deflection [inch/lb]:



	B	C	D	E	F	G
1	770N1-0	7547				
2	Remington					
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1506	1510	1507	1577	1518	1524
8	1700	1704	1704	1775	1712	1719
9	1887	1893	1896	1969	1903	1910
10	2078	2093	2093	2171	2100	2107
11	2272	2288	2284	2372	2296	2302
12	2468	2488	2480	2574	2494	2501
13	2657	2679	2669	2773	2688	2693
14	2844	2876	2860	2971	2883	2887
15	3018	3063	3047	3168	3076	3074
16	3169	3258	3236	3367	3271	3260
17	3292	3438	3415	3557	3463	3433
18	3395	3607	3582	3733	3645	3592
19	3484	3742	3719	3881	3790	3723
20	3568	3861	3843	4016	3901	3838
21	3655	3967	3958	4132	3997	3942
22	3756	4091	4078	4242	4092	4052
23	3859	4198	4179	4335	4187	4152
24	3974	4299	4280	4432	4278	4253
25	4089	4396	4371	4514	4341	4342
26	4219	4490	4455	4561	4395	4424
27	4355	4555	4508	4609	4454	4496
28	4491	4616	4547	4662	4517	4567
29	4628	4678	4598	4717	4593	4643
30	4756	4757	4679	4780	4676	4730
31	4850	4829	4758	4848	4759	4809
32	4932	4904	4834	4924	4836	4886
33	5009	4972	4902	4999	4913	4959
34	5078	5049	4984	5080	4995	5037
35	5142	5120	5062	5162	5071	5111
36	5200	5194	5144	5247	5153	5188
37	5253	5253	5221	5319	5227	5255
38	5316	5312	5297	5397	5300	5324
39	5366	5370	5358	5471	5365	5386
40	5418	5438	5425	5540	5431	5450
41	5465	5488	5487	5602	5487	5506
42	5516	5530	5548	5670	5537	5560
43	5564	5570	5595	5721	5580	5606
44	5609	5618	5646	5771	5624	5654
45	5647	5657	5692	5818	5662	5695
46	5680	5697	5742	5865	5708	5738
47	5709	5731	5787	5900	5746	5775
48	5734	5766	5831	5932	5782	5809
49	5767	5801	5860	5956	5812	5839
50	5804	5837	5888	5982	5832	5869

	H	I	J	K	L	M
1	770N1-500	7849				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1556	1566	1424	1494	1521	1512
8	1768	1759	1607	1676	1699	1702
9	1971	1932	1785	1847	1872	1881
10	2137	2089	1947	2009	2027	2042
11	2212	2197	2080	2124	2135	2150
12	2056	2157	2110	2135	2128	2117
13	1708	1793	1897	1876	1817	1818
14	1520	1446	1534	1502	1480	1496
15	1514	1439	1470	1400	1425	1450
16	1598	1560	1597	1491	1532	1556
17	1738	1718	1763	1638	1683	1708
18	1893	1898	1942	1813	1862	1882
19	2077	2086	2130	2000	2048	2068
20	2264	2281	2315	2184	2238	2256
21	2458	2473	2507	2371	2426	2447
22	2646	2670	2696	2561	2619	2638
23	2840	2859	2890	2758	2812	2832
24	3031	3058	3078	2951	3010	3026
25	3224	3252	3270	3146	3201	3219
26	3415	3446	3447	3335	3392	3407
27	3600	3620	3596	3517	3577	3582
28	3772	3753	3700	3660	3750	3727
29	3917	3851	3804	3779	3891	3848
30	4047	3951	3906	3894	4023	3964
31	4171	4047	4011	4009	4149	4077
32	4291	4150	4107	4121	4275	4189
33	4406	4250	4214	4226	4398	4299
34	4515	4351	4312	4326	4519	4405
35	4620	4454	4418	4420	4642	4511
36	4721	4557	4522	4520	4761	4616
37	4784	4650	4628	4615	4822	4700
38	4815	4750	4710	4677	4881	4767
39	4886	4814	4773	4724	4973	4834
40	4956	4881	4861	4799	5049	4909
41	5037	4981	4967	4885	5129	5000
42	5113	5086	5073	4967	5223	5092
43	5210	5177	5175	5066	5335	5193
44	5298	5271	5261	5166	5426	5284
45	5384	5355	5355	5252	5514	5372
46	5487	5457	5459	5345	5613	5472
47	5604	5555	5563	5436	5703	5572
48	5712	5664	5642	5530	5796	5669
49	5807	5766	5736	5632	5896	5767
50	5892	5852	5814	5730	5994	5856

	N	O	P	Q	R	S
1	770-N1-1000	7454				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1555	1535	1540	1565	1424	1524
8	1735	1728	1720	1741	1588	1702
9	1925	1914	1904	1914	1763	1884
10	2111	2103	2082	2081	1934	2062
11	2305	2276	2256	2237	2111	2237
12	2491	2414	2399	2371	2276	2390
13	2672	2471	2466	2437	2427	2495
14	2808	2286	2300	2243	2505	2428
15	2796	1723	1723	1719	2306	2053
16	2241	1433	1428	1429	1705	1647
17	1592	1464	1449	1423	1458	1477
18	1666	1611	1575	1524	1466	1568
19	1850	1800	1759	1690	1588	1737
20	2046	1998	1960	1891	1767	1932
21	2261	2190	2168	2103	1981	2141
22	2480	2388	2358	2309	2198	2347
23	2712	2576	2552	2497	2420	2551
24	2930	2762	2744	2682	2609	2745
25	3143	2942	2935	2866	2798	2937
26	3329	3123	3127	3056	2987	3124
27	3521	3280	3321	3242	3183	3309
28	3706	3401	3506	3426	3371	3482
29	3887	3521	3676	3591	3561	3647
30	4026	3647	3794	3714	3724	3781
31	4132	3765	3919	3837	3853	3901
32	4212	3886	4045	3962	3980	4017
33	4325	3995	4169	4080	4107	4135
34	4423	4105	4281	4185	4223	4243
35	4527	4208	4401	4291	4335	4352
36	4627	4325	4516	4402	4431	4460
37	4722	4439	4628	4502	4531	4564
38	4785	4534	4722	4592	4612	4649
39	4850	4552	4797	4626	4640	4693
40	4906	4612	4833	4654	4680	4737
41	4983	4703	4920	4743	4760	4822
42	5058	4801	5007	4845	4845	4911
43	5153	4885	5096	4945	4943	5004
44	5241	4994	5193	5045	5026	5100
45	5322	5098	5281	5136	5113	5190
46	5404	5190	5370	5230	5200	5279
47	5480	5282	5472	5345	5296	5375
48	5553	5382	5551	5447	5381	5463
49	5623	5460	5636	5541	5462	5544
50	5697	5556	5715	5640	5542	5630

	T	U	V	W	X	Y
1	770-n1-1500	7856				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1404	1504	1439	1484	1556	1477
8	1547	1701	1648	1673	1739	1662
9	1713	1875	1785	1849	1916	1828
10	1867	2030	1956	2017	2094	1993
11	2008	2207	2155	2191	2273	2167
12	2141	2407	2295	2351	2443	2327
13	2225	2517	2464	2496	2582	2457
14	2110	2538	2536	2556	2625	2473
15	1725	2157	2307	2312	2225	2145
16	1438	1565	1734	1692	1625	1611
17	1507	1548	1475	1519	1588	1527
18	1655	1716	1550	1623	1728	1654
19	1825	1869	1703	1803	1910	1822
20	2023	2099	1892	1998	2103	2023
21	2198	2287	2123	2202	2302	2222
22	2373	2496	2305	2405	2510	2418
23	2546	2686	2505	2615	2712	2613
24	2742	2877	2745	2813	2904	2816
25	2916	3096	2907	3006	3079	3001
26	3103	3235	3097	3186	3240	3172
27	3289	3410	3311	3363	3394	3353
28	3440	3595	3445	3521	3543	3509
29	3586	3724	3607	3673	3668	3652
30	3747	3874	3758	3808	3784	3794
31	3875	4045	3897	3929	3890	3927
32	4019	4142	4008	4048	4000	4043
33	4148	4266	4141	4169	4109	4167
34	4273	4393	4282	4296	4225	4294
35	4385	4509	4370	4419	4328	4402
36	4483	4594	4475	4522	4445	4504
37	4593	4696	4608	4621	4569	4617
38	4704	4815	4660	4741	4713	4727
39	4831	4842	4755	4870	4654	4790
40	4933	4784	4902	4831	4745	4839
41	4961	4982	4866	4920	4909	4928
42	5055	5031	4817	5058	4949	4982
43	5150	5131	5018	5120	5071	5098
44	5203	5231	5128	5233	5186	5196
45	5307	5287	5168	5300	5252	5263
46	5414	5368	5303	5378	5347	5362
47	5515	5466	5391	5477	5411	5452
48	5601	5559	5423	5542	5505	5526
49	5700	5613	5513	5607	5553	5597
50	5815	5680	5563	5683	5679	5684

	Z	AA	AB	AC	AD	AE
1	770-n1-2000	8131				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1403	1508	1475	1540	1447	1475
8	1567	1656	1624	1687	1592	1625
9	1732	1775	1755	1808	1722	1758
10	1878	1870	1862	1920	1842	1874
11	2003	1938	1955	2030	1944	1974
12	2087	2016	2059	2149	2050	2072
13	2131	2096	2175	2256	2160	2164
14	2167	2151	2258	2274	2253	2221
15	2189	2031	2125	1968	2214	2105
16	2015	1594	1646	1537	1821	1723
17	1557	1460	1442	1407	1435	1460
18	1486	1623	1568	1432	1424	1507
19	1667	1822	1753	1522	1545	1662
20	1878	2025	1963	1679	1723	1854
21	2087	2230	2177	1875	1934	2061
22	2293	2426	2384	2086	2145	2267
23	2491	2631	2591	2292	2359	2473
24	2685	2830	2798	2498	2563	2675
25	2875	3035	3007	2701	2771	2878
26	3060	3225	3202	2908	2970	3073
27	3228	3396	3371	3107	3166	3254
28	3382	3533	3501	3289	3334	3408
29	3513	3661	3628	3434	3481	3543
30	3635	3783	3754	3570	3608	3670
31	3748	3892	3879	3701	3744	3793
32	3861	3991	3992	3835	3876	3911
33	3967	4095	4099	3957	4005	4025
34	4077	4197	4199	4073	4116	4132
35	4190	4293	4304	4179	4228	4239
36	4310	4384	4407	4282	4326	4342
37	4435	4480	4520	4381	4426	4448
38	4575	4577	4623	4484	4523	4556
39	4714	4669	4728	4588	4627	4665
40	4847	4708	4841	4694	4723	4763
41	4895	4778	4936	4798	4827	4847
42	4968	4872	4979	4904	4920	4929
43	5060	4954	5103	4972	4931	5004
44	5164	5023	5215	5015	5029	5089
45	5275	5106	5300	5138	5148	5193
46	5359	5177	5387	5228	5219	5274
47	5440	5272	5468	5303	5291	5355
48	5536	5379	5528	5395	5382	5444
49	5637	5477	5637	5475	5491	5543
50	5726	5578	5703	5581	5551	5628

	AF	AG	AH	AI	AJ	AK
1	770-n1-3000	8331				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1507	1444	1425	1405	1421	1440
8	1659	1590	1568	1519	1569	1581
9	1807	1738	1712	1647	1720	1725
10	1961	1881	1862	1777	1869	1870
11	2117	2034	2018	1920	2026	2023
12	2277	2186	2181	2065	2187	2179
13	2432	2347	2345	2223	2350	2339
14	2586	2503	2511	2379	2511	2498
15	2733	2658	2670	2537	2670	2654
16	2881	2807	2828	2687	2824	2805
17	3027	2959	2971	2846	2975	2956
18	3178	3107	3112	3003	3131	3106
19	3333	3258	3248	3157	3287	3257
20	3491	3394	3384	3296	3445	3402
21	3636	3529	3513	3427	3592	3539
22	3768	3652	3642	3551	3728	3668
23	3883	3771	3755	3673	3854	3787
24	3999	3876	3869	3792	3975	3902
25	4110	3987	3975	3908	4089	4014
26	4229	4095	4078	4014	4209	4125
27	4340	4206	4172	4115	4323	4231
28	4453	4308	4261	4204	4444	4334
29	4558	4409	4350	4296	4558	4434
30	4666	4499	4446	4382	4676	4534
31	4766	4590	4536	4475	4793	4632
32	4872	4685	4628	4563	4905	4731
33	4974	4781	4715	4647	5011	4826
34	5074	4873	4824	4728	5125	4925
35	5169	4966	4941	4817	5235	5026
36	5290	5070	5056	4913	5356	5137
37	5413	5107	5008	5029	5478	5207
38	5533	4590	4908	5135	5609	5155
39	5640	4818	5100	4922	5735	5243
40	5282	5028	5262	4767	5870	5242
41	5169	5204	5392	4990	6005	5352
42	5413	5331	5503	5175	6147	5514
43	5619	5453	5602	5338	6286	5660
44	5811	5550	5715	5456	5784	5663
45	5959	5590	5827	5557	5282	5643
46	6099	5606	5908	5655	5584	5770
47	6250	5738	5965	5697	5838	5898
48	6402	5862	6106	5716	6057	6029
49	6525	5913	6250	5884	6211	6157
50	6381	5937	6366	6033	6357	6215

	AL	AM	AN	AO	AP	AQ
1	770-N1-4000	8853				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1428	1482	1467	1579	1513	1494
8	1627	1668	1650	1766	1689	1680
9	1823	1863	1834	1961	1874	1871
10	2023	2058	2026	2151	2058	2063
11	2219	2260	2209	2347	2241	2255
12	2413	2455	2395	2536	2421	2444
13	2599	2657	2578	2729	2603	2633
14	2785	2851	2767	2914	2779	2819
15	2957	3056	2954	3103	2958	3006
16	3122	3253	3148	3287	3133	3189
17	3256	3457	3339	3469	3310	3366
18	3353	3652	3541	3629	3472	3529
19	3354	3849	3738	3785	3617	3669
20	3166	4018	3918	3919	3759	3756
21	2900	4170	4064	4059	3900	3819
22	2973	4312	4217	4203	4043	3950
23	3160	4469	4369	4351	4188	4107
24	3363	4616	4525	4495	4334	4267
25	3569	4767	4666	4643	4482	4425
26	3777	4911	4809	4787	4624	4582
27	3965	5061	4947	4932	4767	4734
28	4107	5203	5088	5067	4903	4874
29	4245	5351	5218	5207	5043	5013
30	4395	5491	5360	5338	5176	5152
31	4548	5633	5488	5465	5301	5287
32	4699	5759	5613	5578	5431	5416
33	4848	5871	5737	5710	5565	5546
34	4998	6002	5872	5847	5691	5682
35	5142	6153	6003	5981	5832	5822
36	5287	6283	6138	6087	5984	5956
37	5429	5727	6273	6222	6144	5959
38	5569	4986	6429	6384	6305	5935
39	5708	5271	6589	6560	6465	6119
40	5850	5503	6743	6720	6594	6282
41	5989	5720	5812	6406	5134	5812
42	6124	5931	5196	5347	5314	5582
43	6267	6148	5469	5639	5581	5821
44	6427	6368	5716	5895	5826	6046
45	6581	6584	5940	6140	6057	6260
46	5753	6781	6164	6368	6273	6268
47	4750	6979	6396	6595	6497	6243
48	5033	7171	6633	6813	6720	6474
49	5269	7373	6847	7036	6931	6691
50	5484	7563	7059	7241	7127	6895

	AR	AS	AT	AU	AV	AW
1	770-N1-5000	8891				
2						
3						
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1510	1568	1414	1526	1442	1492
8	1690	1737	1578	1703	1611	1664
9	1876	1911	1752	1873	1788	1840
10	2044	2081	1929	2041	1964	2012
11	2218	2258	2106	2203	2141	2185
12	2386	2428	2284	2378	2317	2359
13	2559	2601	2463	2553	2501	2535
14	2730	2768	2645	2735	2677	2711
15	2906	2942	2825	2902	2854	2886
16	3078	3108	3005	3071	3032	3059
17	3252	3274	3180	3234	3214	3231
18	3413	3414	3348	3402	3379	3391
19	3570	3556	3512	3549	3525	3542
20	3717	3692	3666	3688	3660	3685
21	3875	3836	3811	3824	3802	3830
22	4019	3975	3959	3967	3941	3972
23	4153	4117	4105	4107	4087	4114
24	4279	4250	4252	4254	4227	4252
25	4418	4389	4397	4390	4365	4392
26	4560	4522	4545	4532	4498	4531
27	4698	4656	4688	4663	4631	4667
28	4829	4782	4829	4805	4756	4800
29	4963	4907	4967	4936	4880	4931
30	5096	5033	5101	5068	4998	5059
31	5230	5169	5235	5191	5119	5189
32	5354	5278	5371	5324	5240	5313
33	5485	5380	5511	5447	5381	5441
34	5611	5520	5653	5573	5528	5577
35	5748	5660	5788	5696	5679	5714
36	5874	4621	5894	5865	5813	5613
37	6021	4454	6067	6030	5958	5706
38	6181	4702	6249	6184	6117	5887
39	6344	4930	6419	6078	6273	6009
40	5176	5129	5872	4498	4794	5094
41	4494	5341	4705	4771	4644	4791
42	4703	5560	4947	5032	4874	5023
43	4914	5779	5198	5264	5116	5254
44	5110	5973	5426	5480	5323	5462
45	5318	6153	5652	5688	5537	5670
46	5542	6322	5870	5922	5763	5884
47	5775	6503	6107	6149	5993	6105
48	5985	6686	6339	6359	6203	6314
49	6186	6872	6549	6533	6392	6506
50	6366	7035	6735	6711	6573	6684

	B	C	D	E	F	G
51	5837	5865	5924	6005	5864	5899
52	5862	5897	5970	6040	5909	5936
53	5879	5924	6002	6069	5956	5966
54	5897	5963	6042	6102	6004	6002
55	5917	5998	6086	6136	6047	6037
56	5930	6040	6135	6176	6085	6073
57	5923	6073	6179	6212	6121	6102
58	5930	6113	6227	6252	6164	6137
59	5950	6149	6268	6291	6207	6173
60	5992	6194	6316	6330	6243	6215
61	6031	6227	6363	6360	6281	6252
62	6062	6269	6410	6404	6317	6292
63	6082	6302	6451	6447	6359	6328
64	6114	6350	6491	6484	6400	6368
65	6154	6389	6529	6508	6429	6402
66	6183	6421	6567	6543	6464	6436
67	6212	6448	6592	6574	6505	6466
68	6239	6486	6628	6599	6543	6499
69	6262	6517	6659	6621	6575	6527
70	6288	6549	6696	6650	6601	6557
71	6324	6572	6733	6680	6629	6588
72	6375	6616	6771	6722	6656	6628
73	6422	6654	6794	6756	6688	6663
74	6467	6696	6829	6789	6725	6701
75	6503	6735	6853	6823	6763	6735
76	6547	6788	6882	6864	6805	6777
77	6594	6831	6910	6900	6853	6818
78	6636	6877	6951	6945	6903	6862
79	6681	6913	7001	6991	6957	6909
80	6719	6962	7052	7036	7017	6957
81	6759	7002	7098	7070	7077	7001
82	6804	7047	7151	7112	7137	7050
83	6851	7084	7199	7155	7192	7096
84	6900	7135	7243	7200	7251	7146
85	6936	7176	7278	7239	7299	7186
86	6983	7234	7329	7279	7345	7234
87	7030	7284	7378	7312	7395	7280
88	7087	7343	7427	7355	7455	7333
89	7144	7396	7471	7387	7510	7382
90	7194	7455	7519	7420	7556	7429
91	7232	7498	7548	7447	7597	7464
92	7274	7537	7589	7482	7627	7502
93	7308	7557	7618	7504	7659	7529
94	7327	7574	7650	7512	7673	7547
95	7336	7558	7658	7500	7660	7542
96	7345	7511	7623	7474	7626	7516
97	7359	7474	7576	7448	7599	7491
98	7389	7453	7567	7450	7591	7490
99	7428	7450	7553	7446	7579	7491
100	7478	7438	7553	7356	7524	7470

	H	I	J	K	L	M
51	5966	5932	5891	5821	6097	5941
52	6022	6025	5950	5916	6193	6021
53	6067	6088	5991	6015	6259	6084
54	6128	6142	6014	6089	6302	6135
55	6181	6180	6073	6129	6352	6183
56	6219	6236	6139	6158	6366	6224
57	6257	6291	6197	6201	6431	6275
58	6286	6340	6232	6243	6501	6320
59	6331	6381	6238	6291	6523	6353
60	6364	6424	6259	6352	6568	6393
61	6412	6453	6306	6397	6607	6435
62	6454	6482	6351	6454	6643	6477
63	6507	6532	6426	6504	6706	6535
64	6530	6599	6479	6528	6742	6576
65	6544	6673	6512	6550	6755	6607
66	6588	6729	6549	6592	6800	6652
67	6608	6755	6592	6620	6854	6686
68	6616	6811	6607	6639	6882	6711
69	6639	6845	6644	6693	6916	6747
70	6671	6844	6679	6751	6942	6777
71	6690	6858	6710	6790	7002	6810
72	6743	6892	6719	6837	7037	6846
73	6806	6933	6736	6852	7057	6877
74	6856	6957	6768	6885	7083	6910
75	6916	6983	6794	6914	7086	6939
76	6964	7004	6816	6936	7103	6965
77	6991	7016	6850	6971	7133	6992
78	7030	7028	6900	7010	7162	7026
79	7059	7060	6972	7060	7228	7076
80	7106	7112	7017	7107	7283	7125
81	7138	7167	7056	7128	7330	7164
82	7168	7222	7088	7172	7368	7204
83	7196	7258	7129	7193	7403	7236
84	7253	7305	7176	7231	7449	7283
85	7298	7362	7238	7285	7506	7338
86	7339	7395	7284	7333	7568	7384
87	7374	7420	7327	7370	7625	7423
88	7419	7471	7379	7434	7682	7477
89	7479	7524	7432	7506	7718	7532
90	7543	7578	7473	7551	7784	7586
91	7599	7639	7524	7587	7846	7639
92	7655	7705	7574	7641	7883	7692
93	7690	7746	7621	7681	7924	7732
94	7736	7783	7630	7728	7983	7772
95	7813	7789	7624	7775	8034	7807
96	7879	7784	7635	7818	8066	7836
97	7894	7779	7644	7851	8072	7848
98	7898	7747	7679	7838	8082	7849
99	7900	7730	7695	7833	8084	7848
100	7857	7706	7652	7834	8055	7821

	N	O	P	Q	R	S
51	5754	5593	5775	5737	5644	5701
52	5785	5607	5782	5817	5726	5743
53	5798	5668	5825	5861	5772	5785
54	5808	5705	5830	5881	5786	5802
55	5821	5761	5869	5920	5819	5838
56	5840	5811	5904	5972	5856	5877
57	5897	5870	5946	6017	5898	5926
58	5934	5912	5972	6045	5908	5954
59	5979	5886	6022	6100	5888	5975
60	6019	5937	6044	6102	5939	6008
61	6056	5963	6089	6097	5987	6038
62	6039	6002	6140	6130	5985	6059
63	6068	6051	6193	6194	6032	6108
64	6074	6075	6190	6255	6049	6129
65	6072	6096	6220	6276	6078	6148
66	6089	6146	6244	6292	6112	6177
67	6113	6198	6272	6288	6151	6204
68	6135	6262	6299	6324	6183	6241
69	6205	6305	6323	6378	6224	6287
70	6303	6358	6376	6405	6268	6342
71	6377	6442	6429	6464	6330	6408
72	6414	6517	6475	6534	6390	6466
73	6448	6569	6526	6587	6447	6515
74	6521	6620	6579	6591	6505	6563
75	6604	6627	6638	6624	6568	6612
76	6656	6668	6689	6667	6614	6659
77	6691	6728	6708	6711	6670	6702
78	6741	6787	6747	6764	6711	6750
79	6800	6821	6790	6827	6771	6802
80	6845	6842	6829	6885	6821	6844
81	6904	6847	6860	6933	6891	6887
82	6971	6903	6893	6996	6928	6938
83	7053	6929	6926	7037	6954	6980
84	7112	6980	6959	7037	6990	7016
85	7166	7047	6994	7073	7010	7058
86	7234	7089	7015	7102	7026	7093
87	7300	7110	7067	7165	7073	7143
88	7346	7123	7112	7184	7097	7172
89	7388	7140	7161	7224	7120	7207
90	7436	7200	7197	7246	7134	7243
91	7482	7236	7242	7273	7178	7282
92	7542	7264	7286	7326	7218	7327
93	7598	7288	7337	7379	7280	7376
94	7602	7329	7386	7400	7333	7410
95	7583	7358	7409	7443	7379	7434
96	7619	7374	7399	7504	7376	7454
97	7608	7372	7381	7526	7385	7454
98	7600	7406	7363	7460	7381	7442
99	7535	7429	7344	7405	7335	7410
100	7422	7369	7312	7363	7303	7354

	T	U	V	W	X	Y
51	5903	5800	5625	5751	5711	5758
52	6028	5842	5678	5826	5820	5839
53	6134	5917	5775	5899	5777	5900
54	6210	6013	5789	5899	5769	5936
55	6287	6030	5818	5953	5866	5991
56	6384	6075	5885	5982	5862	6038
57	6419	6120	5939	5985	5901	6073
58	6442	6090	5903	6021	5828	6057
59	6431	6040	5940	6027	5772	6042
60	6463	6003	5933	5998	5782	6036
61	6445	6031	5893	6019	5767	6031
62	6471	5995	5873	6032	5775	6029
63	6501	5991	5910	6022	5765	6038
64	6511	6004	5914	6019	5782	6046
65	6508	5999	5948	6030	5819	6061
66	6551	6032	5987	6038	5859	6093
67	6556	6093	6009	6068	5908	6127
68	6579	6090	6061	6108	5963	6160
69	6617	6130	6111	6157	6028	6209
70	6646	6203	6167	6202	6105	6265
71	6689	6246	6203	6283	6169	6318
72	6746	6314	6251	6358	6240	6382
73	6786	6398	6356	6436	6306	6456
74	6838	6493	6403	6511	6366	6522
75	6878	6542	6472	6578	6436	6581
76	6946	6596	6559	6634	6525	6652
77	6984	6670	6592	6694	6576	6703
78	7024	6688	6646	6744	6622	6745
79	7074	6749	6714	6792	6679	6802
80	7113	6818	6771	6838	6737	6855
81	7129	6845	6834	6910	6786	6901
82	7169	6884	6897	6975	6839	6953
83	7195	6957	6971	7042	6896	7012
84	7251	7016	6982	7093	6963	7061
85	7266	7055	7018	7149	7034	7104
86	7311	7085	7105	7201	7095	7159
87	7350	7156	7152	7261	7152	7214
88	7413	7195	7236	7317	7218	7276
89	7500	7267	7293	7376	7288	7345
90	7556	7343	7344	7430	7361	7407
91	7598	7356	7417	7492	7415	7456
92	7651	7399	7496	7544	7465	7511
93	7686	7477	7554	7607	7518	7568
94	7744	7497	7597	7661	7593	7618
95	7790	7589	7632	7702	7645	7672
96	7798	7608	7702	7743	7675	7705
97	7759	7633	7709	7796	7690	7717
98	7736	7604	7739	7826	7687	7718
99	7690	7565	7781	7830	7600	7693
100	7687	7571	7693	7766	7591	7662

	Z	AA	AB	AC	AD	AE
51	5807	5670	5770	5647	5631	5705
52	5895	5749	5856	5710	5697	5781
53	5987	5834	5955	5820	5792	5878
54	6069	5915	6056	5924	5872	5967
55	6144	6000	6145	6016	5971	6055
56	6207	6033	6220	6133	6062	6131
57	6264	6057	6261	6230	6159	6194
58	6330	6081	6267	6312	6187	6235
59	6346	6104	6257	6327	6149	6237
60	6395	6132	6255	6323	6192	6259
61	6468	6170	6289	6352	6233	6302
62	6540	6209	6292	6355	6225	6324
63	6590	6254	6328	6370	6249	6358
64	6613	6290	6368	6461	6290	6404
65	6630	6318	6402	6513	6337	6440
66	6653	6355	6454	6498	6366	6465
67	6692	6396	6540	6502	6387	6503
68	6760	6427	6597	6518	6397	6540
69	6806	6446	6608	6559	6414	6567
70	6847	6465	6627	6614	6452	6601
71	6891	6505	6670	6648	6500	6643
72	6937	6557	6703	6692	6544	6687
73	6989	6591	6757	6737	6584	6732
74	7052	6611	6786	6782	6618	6770
75	7129	6672	6833	6786	6630	6810
76	7196	6719	6864	6802	6639	6844
77	7245	6770	6896	6837	6665	6883
78	7298	6821	6941	6893	6694	6929
79	7339	6888	7001	6938	6736	6980
80	7356	6965	7036	6981	6751	7018
81	7389	7037	7095	7016	6792	7066
82	7434	7107	7145	7059	6839	7117
83	7480	7175	7203	7118	6893	7174
84	7532	7226	7248	7192	6938	7227
85	7573	7272	7292	7248	6993	7276
86	7632	7327	7322	7313	7045	7328
87	7696	7394	7381	7381	7102	7391
88	7750	7446	7426	7449	7162	7447
89	7788	7510	7471	7495	7232	7499
90	7860	7579	7528	7545	7291	7561
91	7916	7653	7592	7590	7351	7620
92	7964	7715	7653	7650	7394	7675
93	8024	7779	7728	7703	7446	7736
94	8079	7825	7785	7774	7504	7793
95	8130	7868	7845	7835	7556	7847
96	8196	7905	7895	7892	7602	7898
97	8264	7951	7942	7916	7655	7946
98	8342	7988	7981	7944	7695	7990
99	8415	8006	8005	7973	7720	8024
100	8478	8014	7984	7998	7735	8042

	AF	AG	AH	AI	AJ	AK
51	6512	6044	6318	6134	6520	6306
52	6715	6143	6353	6136	6689	6407
53	6878	6173	6521	6043	6874	6498
54	7027	6114	6680	6133	7032	6597
55	7169	5934	6694	6291	7107	6639
56	7294	6030	5866	6139	7231	6512
57	6494	6149	6078	5869	7373	6393
58	6596	6153	6312	6069	7514	6529
59	6866	6152	6483	6238	7652	6678
60	7076	6216	6598	6352	6194	6487
61	7234	6274	6673	6406	5842	6486
62	7379	6304	6616	6374	6168	6568
63	7507	6314	6515	6310	6418	6613
64	7658	6328	6642	6339	6604	6714
65	7034	6410	6737	6402	6732	6663
66	6801	6489	6766	6418	6844	6664
67	7082	6553	6798	6471	7024	6786
68	7279	6610	6881	6534	6965	6854
69	7395	6638	6971	6569	6578	6830
70	7496	6636	7027	6476	6849	6897
71	7607	6651	6856	6476	7034	6925
72	7675	6666	6844	6544	7160	6978
73	7314	6683	6916	6599	7263	6955
74	7503	6727	6941	6635	7402	7042
75	7594	6763	6965	6701	7564	7117
76	7615	6815	7029	6747	7155	7072
77	7681	6866	7078	6789	7060	7095
78	7794	6908	7087	6814	7279	7176
79	7905	6982	7106	6860	7404	7251
80	7823	7059	7153	6917	7505	7291
81	7833	7128	7194	6971	7607	7347
82	7972	7176	7235	7027	7738	7430
83	8040	7231	7261	7100	7604	7447
84	8099	7291	7304	7142	7338	7435
85	8170	7350	7366	7176	7537	7520
86	8263	7403	7420	7201	7680	7593
87	8315	7475	7416	7235	7787	7646
88	8240	7528	7439	7275	7883	7673
89	8315	7569	7492	7328	8002	7741
90	8415	7594	7557	7373	8079	7804
91	8465	7625	7612	7438	7712	7770
92	8533	7653	7678	7486	7876	7845
93	8615	7709	7734	7518	8042	7924
94	8704	7746	7782	7526	8140	7980
95	8703	7785	7824	7567	8219	8020
96	8709	7804	7861	7606	8331	8062
97	8782	7817	7883	7633	8443	8112
98	8876	7837	7892	7635	8179	8084
99	8967	7843	7896	7650	7983	8068
100	9054	7818	7940	7696	8163	8134

	AL	AM	AN	AO	AP	AQ
51	5701	7755	7258	7442	7318	7095
52	5925	7934	7456	7626	7505	7289
53	6147	8110	7649	7814	7693	7483
54	6361	6999	7836	7985	7858	7408
55	6566	5402	8005	8155	6293	6884
56	6769	5638	8163	8140	5656	6873
57	6964	5890	6572	5566	5936	6186
58	7160	6115	5634	5880	6200	6198
59	7347	6357	5906	6160	6446	6443
60	7531	6596	6172	6422	6680	6680
61	7701	6843	6406	6665	6922	6907
62	7878	7070	6638	6892	7160	7128
63	7855	7286	6879	7135	7386	7308
64	5225	7489	7129	7371	7599	6963
65	5544	7699	7353	7605	7804	7201
66	5787	7897	7568	7808	8005	7413
67	6036	8085	7768	8011	8198	7620
68	6273	8162	7972	8213	7220	7568
69	6507	6908	8161	8419	6630	7325
70	6748	7068	7900	8497	6927	7428
71	6979	7338	6749	6548	7190	6961
72	7199	7582	7042	6781	7424	7206
73	7394	7809	7296	7065	7654	7444
74	7586	8003	7540	7323	7872	7665
75	7770	8186	7766	7564	8075	7872
76	7934	8305	7980	7781	8250	8050
77	8063	8368	8161	7998	8406	8199
78	8193	8485	8321	8191	8433	8325
79	8314	8655	8450	8373	7704	8299
80	7612	8780	8582	8500	7908	8276
81	7237	8220	8616	7974	8152	8040
82	7525	7979	7893	7899	8360	7931
83	7770	8230	8055	8162	8545	8152
84	7985	8433	8296	8391	8704	8362
85	8183	8586	8507	8598	8329	8441
86	8368	8641	8685	8775	7814	8457
87	8460	8635	8526	8943	8068	8526
88	8066	8670	7687	8806	8288	8303
89	8211	8786	7950	7821	8482	8250
90	8421	8917	8190	8082	8657	8453
91	8599	8900	8391	8329	8666	8577
92	8634	7979	8570	8549	8070	8360
93	7845	8170	8607	8750	8248	8324
94	8048	8397	7955	8922	8463	8357
95	8277	8587	8138	9044	8657	8541
96	8480	8736	8374	8291	8813	8539
97	8642	8839	8574	8214	8491	8552
98	8762	8687	8750	8458	7791	8490
99	8852	8760	8810	8686	8058	8633
100	8889	8962	7744	8881	8291	8553

	AR	AS	AT	AU	AV	AW
51	6551	7200	6914	6897	6756	6864
52	6747	7359	7110	7092	6934	7048
53	6948	7526	7306	7267	7113	7232
54	7121	5288	7490	7428	7277	6921
55	7285	4696	7657	7583	7442	6933
56	7450	4872	7824	7751	7605	7100
57	7624	5111	8000	7709	7771	7243
58	7800	5290	8176	4984	5427	6335
59	6597	5497	5962	5269	5132	5691
60	5073	5732	5225	5502	5357	5378
61	5272	5972	5422	5716	5587	5594
62	5511	6168	5651	5924	5781	5807
63	5725	6351	5855	6139	6003	6015
64	5952	6528	6081	6387	6251	6240
65	6180	6721	6333	6625	6497	6471
66	6409	6895	6578	6829	6704	6683
67	6642	6979	6796	6997	6892	6861
68	6846	7074	6992	7189	7084	7037
69	7031	7235	7186	7390	7291	7227
70	7208	7396	7385	7587	7484	7412
71	7409	7520	7580	7724	7664	7579
72	7566	6214	7767	7849	7824	7444
73	7657	6435	7936	7985	7985	7600
74	7735	6673	8092	8145	8141	7757
75	7897	6886	8253	7260	7609	7581
76	8059	7084	8279	6682	6329	7287
77	7281	7285	6591	6963	6631	6950
78	6458	7459	6860	7191	6867	6967
79	6762	7611	7115	7388	7082	7192
80	6995	7735	7335	7602	7299	7393
81	7205	7867	7531	7791	7517	7582
82	7401	7931	7722	7927	7709	7738
83	7586	6993	7873	7945	7884	7656
84	7718	7147	7904	8043	8036	7770
85	7801	7384	7946	8186	8195	7902
86	7893	7570	8090	8337	8323	8043
87	8006	7749	8247	7919	7098	7804
88	8054	7911	8208	7317	7100	7718
89	7594	7536	7488	7556	7363	7507
90	7723	7152	7705	7766	7571	7583
91	7941	7393	7908	7952	7772	7793
92	8113	7579	8090	8144	7972	7980
93	8270	7763	8255	8274	8158	8144
94	8252	7925	8250	7848	8286	8112
95	7215	7905	7437	7573	8414	7709
96	7470	7539	7678	7814	8558	7812
97	7712	7749	7903	8023	8713	8020
98	7916	7943	8100	8224	8853	8207
99	8111	8129	8286	8398	8992	8383
100	8286	8240	8454	8556	9123	8532

	B	C	D	E	F	G
101	7525	7281	7484	7089	7265	7329
102	7522	6996	7206	6952	7082	7152
103	7202	6933	6964	4495	7075	6534
104	7015	3975	3721	1498	2987	3839
105	6737	1534	1629	1558	1572	2606
106	1676	1530	1579	1554	1659	1600
107	1551	1606	1587	1599	1599	1588
108	1791	1748	1757	1631	1728	1731
109	1649	1601	1648	1637	1566	1620
110	1955	1680	1711	1913	1835	1819
111	1611	1949	1964	2041	1978	1909
112	1938	2139	2150	2232	2150	2122
113	2089	2306	2307	2291	2314	2261
114	2360	2362	2378	2329	2349	2356
115	2458	2415	2439	2386	2386	2417
116	2577	2476	2520	2433	2453	2492
117	2658	2521	2576	2556	2502	2563
118	2710	2642	2690	2678	2632	2670
119	2771	2744	2783	2800	2744	2768
120	2836	2845	2877	2884	2845	2857
121	2923	2921	2951	2911	2913	2924
122	2988	2951	2984	2954	2944	2964
123	3029	2987	3023	2999	2982	3004
124	3057	3040	3079	3069	3043	3058
125	3081	3100	3139	3138	3112	3114
126	3125	3177	3214	3215	3189	3184
127	3175	3246	3270	3274	3261	3245
128	3244	3300	3314	3315	3311	3297
129	3331	3330	3348	3355	3353	3343
130	3405	3374	3392	3417	3399	3397
131	3492	3451	3472	3494	3485	3479
132	3602	3557	3588	3603	3611	3592
133	3731	3686	3720	3711	3745	3719
134	3881	3805	3840	3811	3854	3838
135	4010	3898	3930	3910	3939	3937
136	4139	4002	4027	4011	4027	4041
137	4252	4102	4136	4125	4128	4149
138	4364	4221	4259	4248	4243	4267
139	4492	4346	4387	4357	4365	4389
140	4628	4474	4508	4455	4478	4509
141	4768	4581	4609	4540	4568	4613
142	4900	4686	4711	4636	4662	4719
143	5009	4785	4822	4759	4770	4829
144	5116	4911	4957	4904	4900	4958
145	5228	5036	5087	5042	5035	5086
146	5361	5166	5217	5160	5167	5214
147	5500	5283	5337	5267	5285	5334
148	5636	5395	5452	5392	5397	5454
149	5758	5511	5578	5530	5521	5580
150	5882	5644	5721	5682	5661	5718

	H	I	J	K	L	M
101	7772	7693	7617	7819	8063	7793
102	7632	7668	7532	7793	8032	7731
103	7507	7555	7352	7692	7955	7612
104	7386	7396	7195	7472	7819	7454
105	7257	7234	7077	7233	7592	7279
106	7179	7134	7003	7154	7365	7167
107	7134	7091	6965	7098	7261	7110
108	7152	7084	6918	7064	7224	7088
109	7193	7065	6832	7036	7211	7067
110	7190	7000	5740	7011	7180	6824
111	6643	6185	1578	5992	6826	5445
112	1652	1677	1654	1599	1803	1677
113	1553	1653	1760	1619	1544	1626
114	1744	1847	1830	1753	1780	1791
115	1827	1901	1812	1805	1811	1831
116	1869	1923	2040	1829	1845	1901
117	1940	2074	2265	2035	1966	2056
118	2218	2307	2307	2263	2247	2268
119	2278	2361	2369	2293	2290	2318
120	2372	2442	2410	2392	2375	2398
121	2402	2465	2397	2422	2445	2426
122	2399	2442	2445	2420	2432	2428
123	2465	2510	2567	2471	2469	2496
124	2597	2621	2648	2597	2593	2611
125	2691	2703	2727	2675	2683	2696
126	2764	2781	2807	2746	2763	2772
127	2836	2860	2898	2837	2846	2855
128	2914	2956	2990	2922	2939	2944
129	3009	3061	3077	3008	3027	3036
130	3095	3156	3164	3082	3102	3120
131	3195	3252	3272	3161	3180	3212
132	3307	3365	3370	3260	3270	3314
133	3427	3472	3481	3356	3363	3420
134	3560	3593	3595	3459	3460	3533
135	3702	3714	3720	3567	3560	3653
136	3846	3845	3842	3680	3662	3775
137	3985	3970	3961	3805	3773	3899
138	4104	4087	4068	3920	3886	4013
139	4222	4193	4185	4029	3991	4124
140	4343	4308	4310	4141	4102	4241
141	4473	4427	4426	4264	4220	4362
142	4588	4538	4516	4378	4334	4471
143	4685	4627	4603	4476	4437	4566
144	4777	4716	4701	4563	4527	4657
145	4911	4832	4834	4657	4622	4771
146	5069	4985	4987	4779	4734	4911
147	5232	5145	5127	4932	4874	5062
148	5368	5291	5254	5072	5017	5200
149	5496	5417	5393	5202	5150	5332
150	5629	5559	5533	5343	5292	5471

	N	O	P	Q	R	S
101	7369	7273	7296	7361	7268	7313
102	7330	7225	7276	7348	7285	7293
103	7294	7186	7258	7341	7298	7275
104	7228	7134	7231	7329	7285	7241
105	7136	7030	7117	7298	7261	7168
106	7022	6914	7029	7134	7174	7055
107	7051	6862	6989	6978	7016	6979
108	7133	6908	7014	6963	6978	6999
109	7242	6957	7085	7014	7034	7066
110	7218	6943	6961	6973	7100	7039
111	3811	5370	2964	3980	6880	4601
112	1629	1561	1756	1609	2083	1728
113	1651	1691	1631	1662	1452	1617
114	1711	1819	1781	1833	1728	1774
115	1743	1851	1907	1782	1705	1798
116	1658	1881	1921	1893	1858	1842
117	2059	2113	2239	2200	1967	2116
118	2245	2317	2306	2279	2285	2286
119	2301	2312	2334	2331	2297	2315
120	2357	2434	2443	2388	2364	2397
121	2389	2491	2487	2456	2448	2454
122	2408	2509	2488	2488	2497	2478
123	2506	2527	2550	2542	2503	2526
124	2625	2627	2630	2646	2575	2621
125	2675	2699	2713	2719	2678	2697
126	2750	2785	2774	2801	2753	2773
127	2846	2889	2885	2904	2842	2873
128	2957	3007	3013	3039	2930	2989
129	3067	3137	3142	3168	3066	3116
130	3159	3249	3240	3278	3187	3223
131	3234	3340	3320	3352	3293	3308
132	3323	3438	3416	3444	3376	3399
133	3446	3550	3538	3561	3470	3513
134	3572	3682	3669	3687	3582	3638
135	3699	3813	3792	3812	3714	3766
136	3789	3916	3871	3903	3820	3860
137	3874	4000	3949	3976	3909	3942
138	3983	4101	4053	4071	3983	4038
139	4115	4219	4183	4184	4082	4157
140	4247	4345	4302	4299	4194	4277
141	4347	4448	4387	4388	4305	4375
142	4416	4516	4453	4456	4384	4445
143	4505	4588	4538	4537	4451	4524
144	4624	4707	4654	4648	4533	4633
145	4771	4857	4810	4803	4655	4779
146	4898	5010	4940	4949	4803	4920
147	4998	5122	5042	5055	4934	5030
148	5100	5228	5152	5160	5027	5133
149	5242	5355	5299	5298	5149	5269
150	5393	5514	5449	5452	5290	5420

	T	U	V	W	X	Y
101	7725	7567	7609	7729	7638	7654
102	7773	7580	7645	7690	7650	7668
103	7789	7654	7631	7680	7660	7683
104	7844	7664	7650	7713	7675	7709
105	7894	7687	7697	7761	7688	7745
106	7936	7715	7731	7812	7679	7775
107	7934	7719	7733	7800	7614	7760
108	7879	7764	7685	7819	7598	7749
109	7928	7829	7321	7855	7571	7701
110	7942	7853	7443	7883	7581	7740
111	7955	7891	7566	7909	7617	7788
112	8025	7943	7635	7952	7670	7845
113	8013	8041	7623	7963	7642	7856
114	5354	7986	6660	7927	2470	6079
115	1517	3139	1599	2684	1418	2071
116	1470	1559	1471	1434	1450	1477
117	1589	1427	1573	1486	1460	1507
118	1619	1486	1440	1495	1407	1489
119	1462	1551	1591	1446	1685	1547
120	1874	1450	1795	1718	1763	1720
121	2095	1845	1925	1842	1910	1923
122	2193	2027	2042	1961	1899	2024
123	2277	2155	2053	1975	1955	2083
124	2325	2166	2083	2025	2027	2125
125	2323	2207	2161	2097	2137	2185
126	2393	2250	2247	2190	2298	2276
127	2499	2285	2382	2313	2413	2378
128	2624	2398	2472	2418	2486	2480
129	2706	2533	2512	2481	2550	2556
130	2746	2580	2585	2545	2611	2613
131	2827	2648	2688	2606	2711	2696
132	2931	2723	2778	2721	2801	2791
133	3051	2841	2896	2829	2870	2897
134	3185	2926	3000	2913	2904	2986
135	3260	3028	3025	2960	2959	3046
136	3317	3099	3103	3021	3045	3117
137	3435	3144	3244	3121	3171	3223
138	3585	3263	3366	3258	3298	3354
139	3708	3431	3488	3386	3372	3477
140	3818	3544	3573	3464	3428	3565
141	3884	3628	3628	3521	3532	3639
142	3951	3709	3724	3627	3663	3735
143	4054	3781	3859	3755	3798	3849
144	4202	3888	3996	3887	3886	3972
145	4309	4034	4047	3970	3942	4060
146	4381	4091	4092	4025	4013	4120
147	4452	4143	4180	4083	4112	4194
148	4543	4203	4249	4179	4213	4277
149	4631	4317	4345	4271	4297	4372
150	4740	4383	4443	4359	4340	4453

	Z	AA	AB	AC	AD	AE
101	8512	8022	7966	7989	7749	8048
102	8523	8036	7936	7983	7745	8045
103	8537	8058	7928	7976	7740	8048
104	8498	8042	7954	7980	7751	8045
105	8448	8000	8009	7985	7797	8048
106	8345	7963	8065	8003	7828	8041
107	8174	7956	8115	8027	7842	8023
108	8078	7966	8169	8047	7847	8021
109	7954	7993	8219	8080	7874	8024
110	7900	8036	8227	8114	7912	8038
111	7878	8114	8225	8126	7969	8062
112	7906	8162	8242	8165	8046	8104
113	7946	8106	8266	8220	8115	8131
114	8005	5436	8168	8269	8172	7610
115	8026	1579	4287	8317	8214	6085
116	7998	1585	1649	8377	8228	5567
117	4720	1743	1622	6113	5013	3842
118	1412	1734	1733	1576	1712	1633
119	1657	1775	1747	1488	1484	1630
120	1439	1829	1788	1663	1618	1667
121	1787	1911	1855	1612	1608	1755
122	1885	1956	1952	1680	1655	1826
123	1952	2004	2001	1754	1739	1890
124	1991	2059	2020	1866	1852	1958
125	2063	2145	2069	1926	1913	2023
126	2145	2255	2135	1953	1958	2089
127	2239	2385	2259	1985	1986	2171
128	2318	2484	2377	2045	2042	2253
129	2376	2528	2457	2139	2137	2327
130	2446	2585	2498	2257	2240	2405
131	2545	2670	2551	2352	2320	2488
132	2640	2747	2634	2398	2361	2556
133	2714	2819	2723	2451	2419	2625
134	2750	2867	2787	2535	2499	2688
135	2795	2925	2830	2614	2581	2749
136	2873	3006	2884	2680	2638	2816
137	2965	3103	2970	2723	2671	2886
138	3053	3190	3060	2777	2714	2959
139	3117	3260	3132	2850	2780	3028
140	3194	3323	3182	2938	2849	3097
141	3294	3417	3244	3011	2909	3175
142	3396	3516	3329	3060	2947	3250
143	3479	3607	3422	3107	2992	3321
144	3537	3668	3499	3182	3054	3388
145	3589	3734	3558	3267	3127	3455
146	3670	3814	3618	3342	3190	3527
147	3767	3911	3707	3396	3240	3604
148	3856	3997	3801	3457	3294	3681
149	3920	4064	3882	3534	3373	3755
150	3983	4116	3933	3623	3457	3822

	AF	AG	AH	AI	AJ	AK
101	9142	7802	7999	7719	8231	8179
102	9222	7762	8066	7721	8307	8216
103	9158	7749	8040	7765	8394	8221
104	9097	7701	8044	7778	8498	8224
105	9174	7711	8098	7793	8374	8230
106	9249	7767	8124	7826	8016	8196
107	9262	7828	8170	7866	8192	8264
108	9223	7884	8259	7886	8279	8306
109	9148	7934	8328	7903	8344	8331
110	8861	7955	8395	7912	8448	8314
111	8140	8004	8428	7920	8577	8214
112	8187	8020	8393	7914	8580	8219
113	8172	8073	8318	7947	7201	7942
114	8115	8057	8356	7975	7313	7963
115	8099	8010	8343	7962	3084	7100
116	8147	8004	5190	7930	1469	6148
117	8136	6204	1450	4458	1509	4351
118	8093	1536	1403	1472	1584	2818
119	6833	1485	1499	1518	1490	2565
120	1573	1488	1483	1572	1406	1504
121	1507	1458	1471	1535	1443	1483
122	1577	1567	1576	1403	1564	1537
123	1571	1674	1674	1416	1673	1602
124	1492	1767	1769	1445	1744	1643
125	1421	1838	1821	1571	1842	1699
126	1425	1810	1785	1668	1847	1707
127	1531	1796	1778	1759	1790	1731
128	1645	1823	1822	1847	1809	1789
129	1743	1915	1911	1884	1878	1866
130	1824	1973	1962	1836	1945	1908
131	1891	2042	2020	1839	1989	1956
132	1857	2127	2096	1889	2041	2002
133	1817	2169	2119	1980	2115	2040
134	1837	2156	2107	2025	2100	2045
135	1932	2167	2125	2074	2092	2078
136	2016	2210	2176	2150	2120	2134
137	2090	2261	2218	2158	2170	2179
138	2167	2294	2247	2141	2191	2208
139	2197	2342	2303	2158	2221	2244
140	2177	2398	2351	2205	2280	2282
141	2172	2403	2350	2242	2301	2294
142	2214	2401	2351	2267	2291	2305
143	2269	2423	2377	2319	2299	2337
144	2309	2462	2418	2349	2331	2374
145	2356	2496	2452	2341	2366	2402
146	2406	2528	2482	2339	2387	2428
147	2408	2580	2530	2369	2427	2463
148	2406	2600	2545	2407	2462	2484
149	2425	2603	2546	2436	2469	2496
150	2467	2610	2557	2471	2472	2515

	AL	AM	AN	AO	AP	AQ
101	8947	9148	7910	9061	8505	8714
102	9100	9089	8160	9211	8705	8853
103	9200	7435	8374	8505	8885	8480
104	7664	7712	8572	7244	8989	8036
105	7673	7971	8722	7520	7926	7962
106	7945	8185	8737	7730	7780	8075
107	8175	8375	6834	7742	7983	7822
108	8383	6696	1944	2023	3970	4603
109	8562	2000	1413	1771	1579	3065
110	8703	1420	1423	1638	1901	3017
111	8849	1468	1461	1430	1453	2932
112	9019	1492	1531	1509	1569	3024
113	6716	1527	1623	1615	1628	2622
114	1865	1604	1727	1668	1681	1709
115	1408	1701	1743	1738	1750	1668
116	1419	1805	1824	1807	1847	1740
117	1458	1820	1916	1912	1929	1807
118	1520	1896	2004	2005	1978	1881
119	1515	1980	2063	2050	2000	1922
120	1594	2074	2099	2082	2041	1978
121	1693	2145	2143	2135	2115	2046
122	1807	2187	2220	2221	2205	2128
123	1891	2238	2297	2304	2286	2203
124	1915	2324	2373	2364	2322	2260
125	1993	2401	2411	2392	2352	2310
126	2089	2479	2436	2424	2401	2366
127	2202	2522	2470	2471	2461	2425
128	2281	2553	2520	2530	2523	2481
129	2316	2596	2582	2582	2560	2527
130	2362	2655	2637	2612	2581	2569
131	2436	2724	2668	2636	2615	2616
132	2514	2783	2699	2676	2664	2667
133	2590	2816	2746	2726	2719	2719
134	2633	2856	2814	2778	2765	2769
135	2671	2910	2878	2816	2796	2814
136	2717	2981	2928	2849	2822	2859
137	2778	3046	2964	2888	2865	2908
138	2849	3098	3014	2941	2918	2964
139	2906	3143	3073	3000	2977	3020
140	2945	3204	3143	3061	3025	3076
141	2987	3270	3199	3115	3070	3128
142	3049	3338	3250	3166	3116	3184
143	3118	3391	3296	3216	3180	3240
144	3188	3441	3352	3284	3246	3302
145	3247	3485	3411	3345	3315	3361
146	3299	3540	3471	3407	3367	3417
147	3361	3593	3520	3453	3416	3469
148	3427	3653	3564	3502	3471	3523
149	3490	3704	3604	3555	3535	3578
150	3538	3749	3657	3616	3598	3632

	AR	AS	AT	AU	AV	AW
101	8353	7443	8586	8667	9259	8462
102	8419	7575	8710	7771	9400	8375
103	8599	7818	8845	7219	9547	8406
104	8752	8018	8982	7505	9672	8586
105	8907	8206	9125	7735	9780	8751
106	9044	8337	9273	7940	9860	8891
107	9180	4167	9415	8132	9229	8025
108	9305	1652	9552	8328	6251	7018
109	9436	1409	9676	8356	6531	7082
110	9572	1422	9793	2004	6743	5907
111	9715	1479	9904	1583	4233	5383
112	3905	1525	10002	1543	1453	3686
113	1409	1597	6039	1405	1793	2449
114	1781	1633	1502	1456	1427	1560
115	1476	1648	1942	1511	1518	1619
116	1549	1739	1444	1532	1576	1568
117	1621	1829	1536	1595	1650	1646
118	1665	1938	1626	1640	1669	1708
119	1727	2004	1676	1697	1725	1766
120	1765	2043	1747	1706	1747	1802
121	1830	2110	1730	1800	1805	1855
122	1925	2186	1805	1895	1860	1934
123	2026	2283	1839	1988	1875	2002
124	2070	2347	1901	2018	1962	2060
125	2093	2381	1934	2041	2032	2096
126	2204	2408	1945	2111	2124	2158
127	2280	2463	2028	2174	2167	2222
128	2387	2535	2092	2239	2197	2290
129	2417	2609	2188	2275	2237	2345
130	2441	2651	2235	2295	2284	2381
131	2499	2680	2262	2323	2349	2423
132	2572	2724	2297	2364	2397	2471
133	2655	2797	2353	2416	2421	2528
134	2717	2872	2433	2464	2442	2586
135	2740	2945	2503	2484	2480	2630
136	2772	2976	2536	2506	2531	2664
137	2829	3015	2561	2546	2581	2706
138	2910	3076	2614	2612	2609	2764
139	2981	3149	2691	2679	2625	2825
140	3018	3216	2770	2729	2653	2877
141	3034	3259	2824	2756	2701	2915
142	3086	3288	2850	2801	2760	2957
143	3169	3334	2892	2868	2816	3016
144	3256	3395	2965	2949	2852	3083
145	3311	3470	3049	3018	2887	3147
146	3327	3527	3125	3060	2947	3197
147	3359	3560	3157	3097	3024	3239
148	3428	3591	3186	3157	3100	3292
149	3501	3647	3244	3227	3153	3354
150	3569	3711	3315	3299	3189	3417

	B	C	D	E	F	G
151	6014	5784	5867	5830	5811	5861
152	6153	5932	6019	5969	5955	6006
153	6292	6067	6155	6097	6090	6140
154	6431	6202	6288	6233	6219	6275
155	6570	6332	6422	6374	6350	6410
156	6699	6470	6567	6526	6492	6551
157	6830	6609	6712	6674	6633	6692
158	6962	6757	6863	6820	6776	6836
159	7097	6889	7001	6948	6907	6968
160	7216	7024	7139	7078	7034	7098
161	7275	7149	7264	7209	7155	7210
162	7330	7265	7345	7308	7264	7302
163	7380	7322	7396	7365	7324	7357
164	7426	7379	7450	7423	7381	7412
165	7472	7430	7499	7477	7435	7463
166	7520	7486	7550	7527	7487	7514
167	7568	7532	7595	7571	7537	7561
168	7613	7580	7643	7621	7583	7608
169	7658	7625	7693	7673	7635	7657
170	7706	7680	7750	7728	7686	7710
171	7752	7734	7804	7779	7739	7762
172	7799	7792	7860	7832	7792	7815
173	7845	7840	7911	7884	7840	7864
174	7890	7893	7969	7942	7893	7917
175	7934	7943	8027	7998	7948	7970
176	7985	8001	8085	8058	8003	8026
177	8032	8052	8141	8110	8055	8078
178	8078	8106	8199	8165	8107	8131
179	8143	8154	8252	8218	8160	8185
180	8332	8207	8307	8272	8211	8266
181	8519	8253	8365	8336	8260	8347
182	8700	8360	8541	8516	8374	8498
183	8877	8558	8739	8712	8575	8692
184	9056	8756	8928	8902	8769	8882
185	9228	8935	9109	9084	8952	9062
186	9403	9120	9290	9270	9136	9244
187	9570	9296	9469	9448	9314	9419
188	9744	9478	9652	9633	9493	9600
189	9915	9648	9830	9812	9670	9775
190	10086	9826	10007	9996	9845	9952
191	10253	9998	10187	10175	10023	10127
192	10430	10181	10372	10355	10203	10308
193	10602	10349	10545	10532	10375	10481
194	10780	10526	10728	10716	10553	10661
195	10952	10699	10908	10899	10730	10838
196	11126	10883	11097	11091	10915	11022
197	11302	11055	11280	11273	11096	11201
198	11481	11237	11465	11462	11276	11384
199	11654	11414	11644	11649	11456	11563
200	11832	11599	11831	11843	11640	11749

	H	I	J	K	L	M
151	5768	5695	5673	5484	5437	5611
152	5918	5838	5801	5620	5580	5751
153	6072	5978	5935	5752	5706	5889
154	6213	6115	6073	5885	5829	6023
155	6357	6256	6224	6022	5965	6165
156	6504	6405	6361	6171	6110	6310
157	6651	6542	6499	6311	6253	6451
158	6794	6680	6635	6447	6385	6588
159	6943	6819	6782	6582	6516	6728
160	7078	6964	6924	6726	6657	6870
161	7152	7109	7064	6869	6802	6999
162	7204	7207	7169	7008	6943	7106
163	7251	7263	7229	7136	7076	7191
164	7297	7312	7281	7203	7180	7255
165	7348	7358	7330	7259	7239	7307
166	7392	7405	7374	7309	7291	7354
167	7434	7446	7419	7356	7336	7398
168	7479	7494	7469	7402	7379	7445
169	7529	7543	7523	7450	7426	7494
170	7578	7596	7570	7504	7477	7545
171	7626	7643	7616	7555	7527	7593
172	7669	7692	7661	7601	7574	7639
173	7715	7735	7714	7649	7621	7687
174	7762	7787	7761	7698	7670	7736
175	7812	7831	7807	7749	7719	7784
176	7858	7876	7847	7793	7765	7828
177	7907	7918	7896	7835	7808	7873
178	7958	7966	7941	7881	7853	7920
179	8009	8012	7994	7930	7898	7969
180	8057	8061	8041	7982	7945	8017
181	8105	8107	8088	8030	7991	8064
182	8153	8160	8139	8079	8036	8113
183	8201	8211	8191	8130	8086	8164
184	8250	8266	8236	8184	8140	8215
185	8390	8317	8287	8234	8190	8284
186	8582	8456	8399	8282	8243	8392
187	8773	8643	8595	8365	8306	8536
188	8957	8837	8780	8554	8481	8722
189	9141	9017	8960	8745	8674	8907
190	9318	9198	9138	8926	8860	9088
191	9496	9374	9321	9108	9039	9268
192	9671	9557	9494	9287	9223	9446
193	9861	9732	9674	9470	9404	9628
194	10039	9910	9844	9645	9584	9804
195	10224	10075	10022	9819	9757	9979
196	10408	10247	10198	9993	9933	10156
197	10600	10424	10379	10173	10112	10338
198	10785	10601	10550	10352	10298	10517
199	10974	10769	10727	10534	10478	10696
200	11155	10941	10907	10712	10663	10876

	N	O	P	Q	R	S
151	5544	5661	5590	5596	5443	5567
152	5657	5784	5703	5710	5577	5686
153	5774	5887	5818	5817	5693	5798
154	5900	6004	5942	5934	5798	5916
155	6047	6137	6084	6065	5922	6051
156	6188	6283	6220	6202	6051	6189
157	6324	6412	6344	6328	6185	6319
158	6441	6530	6457	6444	6299	6434
159	6568	6638	6578	6560	6413	6551
160	6705	6768	6708	6688	6522	6678
161	6860	6906	6853	6829	6654	6820
162	6982	7047	6983	6963	6788	6953
163	7043	7138	7095	7072	6921	7054
164	7084	7184	7149	7131	7027	7115
165	7130	7224	7194	7173	7097	7164
166	7173	7271	7241	7214	7138	7207
167	7227	7317	7290	7262	7186	7256
168	7271	7363	7331	7306	7231	7300
169	7315	7401	7367	7346	7274	7341
170	7355	7442	7403	7384	7308	7378
171	7405	7483	7449	7427	7348	7422
172	7453	7533	7500	7476	7392	7471
173	7503	7581	7545	7524	7442	7519
174	7541	7628	7585	7565	7486	7561
175	7584	7663	7625	7607	7528	7601
176	7630	7708	7670	7650	7567	7645
177	7678	7751	7719	7697	7617	7692
178	7725	7799	7767	7741	7661	7739
179	7773	7838	7813	7786	7713	7785
180	7813	7883	7855	7828	7755	7827
181	7861	7926	7903	7873	7798	7872
182	7905	7977	7949	7919	7840	7918
183	7958	8022	7998	7970	7886	7967
184	8002	8073	8044	8017	7932	8014
185	8050	8119	8092	8066	7982	8062
186	8091	8167	8137	8110	8024	8106
187	8139	8212	8186	8155	8073	8153
188	8258	8338	8237	8203	8120	8231
189	8451	8515	8362	8269	8172	8354
190	8620	8682	8521	8414	8216	8491
191	8785	8829	8673	8566	8276	8626
192	8941	8973	8814	8711	8409	8770
193	9114	9120	8965	8857	8565	8924
194	9276	9275	9108	9004	8708	9074
195	9429	9415	9243	9135	8851	9215
196	9566	9549	9357	9250	8970	9338
197	9710	9672	9479	9363	9079	9461
198	9858	9811	9603	9480	9176	9586
199	10014	9950	9735	9600	9288	9717
200	10152	10091	9848	9706	9388	9837

	T	U	V	W	X	Y
151	4829	4474	4470	4411	4380	4513
152	4883	4558	4507	4462	4435	4569
153	4965	4592	4600	4528	4521	4641
154	5083	4664	4692	4628	4617	4737
155	5189	4803	4794	4736	4709	4846
156	5311	4891	4882	4834	4767	4937
157	5386	4994	4958	4890	4832	5012
158	5448	5072	4998	4950	4921	5078
159	5521	5122	5080	5031	5030	5157
160	5627	5186	5210	5134	5124	5256
161	5734	5285	5283	5225	5186	5343
162	5817	5402	5353	5288	5227	5417
163	5864	5441	5397	5324	5291	5463
164	5919	5489	5432	5382	5371	5519
165	5990	5572	5528	5464	5465	5604
166	6090	5632	5635	5561	5537	5691
167	6176	5731	5704	5633	5588	5766
168	6237	5839	5740	5684	5632	5826
169	6278	5866	5793	5730	5707	5875
170	6348	5935	5885	5804	5792	5953
171	6429	5992	5941	5884	5874	6024
172	6516	6074	6023	5965	5932	6102
173	6588	6146	6095	6018	5981	6166
174	6645	6206	6116	6063	6032	6212
175	6693	6279	6167	6114	6108	6272
176	6767	6304	6256	6188	6178	6339
177	6847	6375	6308	6260	6242	6406
178	6920	6477	6361	6329	6288	6475
179	6976	6525	6430	6376	6335	6528
180	7033	6574	6475	6426	6391	6580
181	7084	6652	6515	6479	6464	6639
182	7158	6682	6595	6555	6532	6704
183	7234	6753	6685	6623	6595	6778
184	7308	6837	6719	6683	6639	6837
185	7358	6909	6759	6726	6690	6888
186	7401	6945	6840	6778	6754	6944
187	7439	6999	6881	6843	6832	6999
188	7471	7086	6964	6923	6902	7069
189	7507	7143	7055	6988	6962	7131
190	7545	7216	7085	7044	7009	7180
191	7563	7304	7134	7089	7073	7233
192	7595	7325	7205	7151	7142	7284
193	7631	7381	7287	7219	7220	7348
194	7664	7445	7347	7293	7279	7406
195	7697	7458	7408	7349	7329	7448
196	7739	7488	7478	7404	7362	7494
197	7768	7521	7493	7454	7397	7527
198	7800	7562	7517	7502	7428	7562
199	7830	7583	7586	7536	7462	7599
200	7883	7619	7625	7577	7492	7639

	Z	AA	AB	AC	AD	AE
151	4069	4186	3991	3702	3534	3896
152	4167	4257	4057	3765	3586	3966
153	4254	4325	4129	3812	3637	4031
154	4318	4379	4185	3874	3698	4091
155	4378	4436	4231	3938	3766	4150
156	4455	4494	4272	3996	3822	4208
157	4537	4565	4324	4037	3869	4266
158	4613	4628	4377	4080	3913	4322
159	4670	4687	4430	4125	3967	4376
160	4726	4728	4467	4180	4023	4425
161	4792	4783	4510	4228	4082	4479
162	4865	4840	4554	4270	4125	4531
163	4931	4903	4613	4307	4163	4583
164	4985	4954	4671	4351	4205	4633
165	5029	5001	4719	4400	4256	4681
166	5089	5046	4759	4452	4306	4730
167	5150	5108	4815	4495	4350	4784
168	5218	5169	4871	4536	4386	4836
169	5273	5224	4933	4577	4426	4887
170	5320	5263	4977	4628	4472	4932
171	5371	5312	5021	4686	4524	4983
172	5433	5370	5068	4741	4567	5036
173	5500	5433	5128	4780	4605	5089
174	5556	5480	5189	4829	4646	5140
175	5601	5524	5239	4883	4701	5190
176	5655	5568	5277	4946	4761	5241
177	5718	5626	5327	4998	4812	5296
178	5787	5680	5383	5045	4854	5350
179	5841	5733	5439	5090	4906	5402
180	5887	5776	5484	5148	4959	5451
181	5937	5829	5532	5205	5020	5505
182	6004	5885	5581	5256	5070	5559
183	6066	5950	5641	5299	5119	5615
184	6121	6005	5695	5348	5169	5668
185	6173	6059	5750	5401	5228	5722
186	6232	6109	5797	5460	5284	5776
187	6298	6169	5850	5513	5340	5834
188	6365	6231	5907	5563	5386	5890
189	6425	6292	5970	5610	5438	5947
190	6481	6341	6026	5670	5497	6003
191	6539	6397	6080	5729	5562	6061
192	6603	6456	6132	5789	5616	6119
193	6671	6523	6200	5838	5671	6181
194	6737	6582	6266	5891	5726	6240
195	6796	6641	6330	5949	5791	6301
196	6856	6696	6382	6016	5855	6361
197	6920	6761	6440	6079	5920	6424
198	6994	6827	6505	6137	5976	6488
199	7060	6892	6574	6191	6035	6550
200	7122	6946	6633	6258	6098	6611

	AF	AG	AH	AI	AJ	AK
151	2506	2636	2583	2512	2493	2546
152	2547	2670	2616	2520	2527	2576
153	2591	2708	2650	2520	2565	2607
154	2615	2747	2685	2536	2605	2638
155	2621	2778	2708	2568	2644	2664
156	2634	2791	2714	2607	2659	2681
157	2663	2804	2722	2642	2671	2700
158	2707	2822	2740	2680	2685	2727
159	2747	2861	2774	2705	2715	2760
160	2798	2908	2811	2713	2753	2797
161	2837	2970	2865	2727	2795	2839
162	2861	3028	2918	2751	2838	2879
163	2879	3068	2952	2794	2870	2913
164	2911	3095	2975	2836	2885	2940
165	2961	3126	3008	2889	2901	2977
166	3027	3168	3053	2930	2921	3020
167	3096	3226	3113	2958	2958	3070
168	3167	3283	3173	2976	3000	3120
169	3210	3343	3235	3004	3050	3168
170	3243	3391	3281	3046	3094	3211
171	3271	3420	3309	3099	3126	3245
172	3316	3441	3330	3153	3148	3278
173	3370	3480	3370	3209	3176	3321
174	3433	3529	3415	3245	3218	3368
175	3492	3584	3471	3272	3269	3418
176	3541	3641	3521	3297	3319	3464
177	3567	3696	3570	3339	3372	3509
178	3594	3735	3602	3386	3410	3545
179	3630	3760	3629	3441	3440	3580
180	3679	3791	3659	3489	3465	3617
181	3732	3836	3702	3535	3499	3661
182	3792	3886	3750	3565	3542	3707
183	3844	3940	3803	3589	3591	3753
184	3885	3989	3848	3617	3637	3795
185	3914	4030	3884	3659	3675	3832
186	3949	4060	3911	3705	3702	3865
187	3991	4095	3943	3753	3727	3902
188	4045	4131	3977	3791	3757	3940
189	4099	4178	4021	3821	3793	3982
190	4154	4229	4069	3844	3831	4025
191	4196	4283	4117	3874	3876	4069
192	4232	4329	4156	3908	3917	4108
193	4264	4366	4188	3950	3951	4144
194	4305	4397	4217	3993	3978	4178
195	4348	4435	4252	4039	4006	4216
196	4406	4480	4296	4074	4042	4260
197	4457	4532	4347	4101	4083	4304
198	4506	4584	4398	4127	4127	4348
199	4542	4633	4445	4163	4169	4390
200	4575	4671	4484	4205	4204	4428

	AL	AM	AN	AO	AP	AQ
151	3583	3790	3709	3673	3655	3682
152	3628	3839	3763	3726	3699	3731
153	3680	3888	3805	3770	3743	3777
154	3734	3939	3848	3815	3792	3826
155	3791	3981	3895	3865	3846	3876
156	3840	4021	3954	3921	3895	3926
157	3886	4061	4006	3967	3937	3971
158	3933	4107	4055	4008	3974	4015
159	3982	4154	4094	4047	4017	4059
160	4035	4204	4137	4092	4061	4106
161	4085	4248	4185	4140	4108	4153
162	4130	4296	4238	4188	4150	4200
163	4171	4340	4284	4229	4192	4243
164	4217	4395	4330	4273	4232	4289
165	4268	4446	4372	4316	4276	4336
166	4315	4496	4419	4367	4324	4384
167	4364	4542	4468	4416	4377	4433
168	4411	4589	4522	4467	4426	4483
169	4457	4636	4572	4512	4469	4529
170	4505	4692	4620	4558	4512	4577
171	4558	4749	4667	4604	4561	4628
172	4613	4803	4719	4656	4610	4680
173	4665	4852	4772	4708	4660	4731
174	4715	4905	4830	4764	4703	4783
175	4769	4957	4879	4810	4749	4833
176	4824	5017	4928	4860	4797	4885
177	4882	5069	4974	4913	4850	4938
178	4940	5123	5030	4972	4900	4993
179	4995	5172	5085	5028	4955	5047
180	5047	5227	5141	5083	5003	5100
181	5106	5283	5191	5131	5054	5153
182	5166	5343	5243	5188	5107	5209
183	5226	5394	5295	5246	5167	5266
184	5284	5450	5355	5307	5222	5324
185	5337	5507	5409	5362	5277	5378
186	5389	5566	5467	5418	5331	5434
187	5449	5626	5521	5472	5389	5491
188	5508	5686	5578	5532	5448	5550
189	5567	5746	5637	5588	5507	5609
190	5621	5808	5700	5649	5563	5668
191	5675	5868	5761	5708	5621	5727
192	5732	5940	5831	5770	5679	5790
193	5794	6010	5898	5834	5745	5856
194	5853	6088	5973	5906	5814	5927
195	5913	6160	6045	5976	5883	5995
196	5973	6236	6121	6049	5949	6066
197	6033	6309	6194	6117	6015	6134
198	6096	6388	6272	6187	6079	6204
199	6161	6463	6342	6257	6150	6275
200	6232	6542	6413	6332	6217	6347

	AR	AS	AT	AU	AV	AW
151	3600	3774	3385	3345	3235	3468
152	3630	3810	3430	3375	3300	3509
153	3676	3837	3454	3412	3373	3550
154	3745	3878	3490	3469	3431	3603
155	3811	3932	3549	3529	3464	3657
156	3857	3984	3615	3585	3497	3708
157	3879	4032	3670	3613	3548	3748
158	3908	4061	3697	3642	3608	3783
159	3958	4091	3722	3689	3666	3825
160	4026	4137	3770	3749	3704	3877
161	4079	4195	3829	3800	3735	3928
162	4108	4247	3886	3838	3775	3971
163	4131	4286	3920	3865	3829	4006
164	4177	4314	3943	3903	3885	4044
165	4236	4356	3979	3950	3930	4090
166	4294	4406	4029	4003	3959	4138
167	4334	4461	4081	4046	3993	4183
168	4364	4507	4129	4078	4036	4223
169	4400	4543	4153	4107	4086	4258
170	4455	4577	4181	4152	4132	4299
171	4515	4629	4226	4205	4171	4349
172	4570	4688	4281	4259	4200	4400
173	4601	4747	4333	4299	4243	4445
174	4634	4790	4374	4332	4290	4484
175	4679	4829	4403	4371	4344	4525
176	4739	4874	4445	4426	4392	4575
177	4794	4936	4499	4487	4432	4630
178	4839	4997	4563	4545	4474	4684
179	4866	5053	4621	4589	4527	4731
180	4909	5094	4662	4635	4587	4777
181	4958	5141	4699	4687	4650	4827
182	5020	5195	4754	4753	4698	4884
183	5072	5262	4821	4813	4742	4942
184	5112	5320	4886	4867	4790	4995
185	5150	5373	4938	4907	4850	5044
186	5204	5414	4978	4958	4909	5093
187	5267	5465	5026	5014	4966	5148
188	5329	5522	5091	5079	5013	5207
189	5379	5589	5156	5130	5062	5263
190	5421	5642	5216	5178	5117	5315
191	5465	5689	5264	5220	5181	5364
192	5524	5734	5308	5276	5242	5417
193	5584	5796	5361	5335	5297	5475
194	5642	5862	5423	5399	5342	5534
195	5685	5926	5487	5447	5394	5588
196	5728	5969	5539	5491	5455	5636
197	5779	6013	5583	5539	5521	5687
198	5840	6059	5631	5600	5578	5742
199	5898	6120	5693	5662	5628	5800
200	5949	6179	5760	5723	5676	5857

	B	C	D	E	F	G
201	12007	11779	12013	12029	11821	11930
202	12191	11966	12207	12223	12008	12119
203	12375	12141	12392	12412	12192	12302
204	12560	12330	12586	12610	12380	12493
205	12740	12516	12776	12805	12567	12681
206	12926	12712	12974	12999	12757	12874
207	13112	12898	13162	13186	12944	13060
208	13305	13090	13359	13386	13134	13255
209	13491	13274	13547	13578	13322	13442
210	13683	13471	13745	13779	13515	13639
211	13873	13657	13938	13969	13708	13829
212	14071	13855	14136	14167	13900	14026
213	14265	14037	14326	14361	14091	14216
214	14461	14235	14528	14559	14287	14414
215	14653	14422	14716	14750	14479	14604
216	14850	14618	14916	14945	14673	14800
217	15044	14798	15106	15133	14863	14989
218	15239	14995	15300	15333	15057	15185
219	15426	15179	15490	15525	15250	15374
220	15623	15377	15684	15720	15445	15570
221	15813	15560	15870	15907	15637	15757
222	16010	15753	16065	16106	15833	15953
223	16198	15936	16256	16301	16027	16144
224	16395	16132	16458	16507	16229	16344
225	16589	16318	16650	16703	16424	16537
226	16785	16518	16850	16903	16621	16735
227	16973	16706	17040	17098	16815	16926
228	17170	16908	17243	17305	17014	17128
229	17359	17094	17437	17501	17209	17320
230	17557	17294	17638	17705	17411	17521
231	17749	17480	17836		17606	
232		17681			17808	
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	H	I	J	K	L	M
201	11346	11114	11093	10902	10849	11061
202	11535	11296	11278	11093	11041	11249
203	11727	11474	11466	11285	11232	11437
204	11912	11658	11649	11472	11426	11623
205	12099	11842	11845	11661	11612	11812
206	12281	12043	12034	11852	11806	12003
207	12474	12241	12234	12051	11999	12200
208	12655	12452	12433	12240	12197	12395
209	12840	12652	12640	12433	12385	12590
210	13021	12862	12847	12635	12580	12789
211	13208	13068	13061	12845	12785	12993
212	13392	13285	13268	13052	12999	13199
213	13580	13495	13482	13263	13204	13405
214	13757	13708	13688	13468	13412	13607
215	13943	13914	13905	13681	13619	13812
216	14126	14132	14111	13892	13833	14019
217	14317	14341	14326	14105	14045	14227
218	14505	14556	14537	14314	14260	14434
219	14707	14771	14759	14531	14472	14648
220	14906	14991	14973	14745	14686	14860
221	15110	15206	15191	14965	14900	15074
222	15311	15429	15405	15179	15119	15289
223	15515	15640	15625	15396	15331	15501
224	15712	15863	15837	15610	15551	15715
225	15914	16078	16058	15829	15765	15929
226	16109	16301	16273	16045	15983	16142
227	16311	16513	16493	16263	16195	16355
228	16503	16735	16704	16475	16413	16566
229	16705	16950	16924	16696	16625	16780
230	16895	17172	17137	16910	16841	16991
231	17092	17385	17356	17126	17054	17203
232	17280	17606	17572	17338	17272	17414
233	17472	17822	17792	17555	17480	17624
234	17652	18044	18006	17767	17694	17833
235	17841	18258	18224	17988	17905	18043
236	18017	18478	18434	18196	18120	18249
237	18202	18684	18646	18409	18330	18454
238	18375	18898	18859	18618	18544	18659
239	18566	19107	19074	18834	18750	18866
240	18744	19319	19279	19042	18964	19070
241	18932	19522	19488	19256	19170	19274
242	19113	19724	19690	19461	19381	19474
243	19301	19919	19898	19671	19584	19675
244	19480	20126	20104	19876	19795	19876
245	19664	20324	20315	20090	19996	20078
246	19842	20528	20518	20292	20206	20277
247	20026	20726	20729	20502	20410	20479
248	20199	20931	20932	20707	20624	20679
249	20381	21131	21140	20917	20826	20879
250	20547	21328	21342	21118	21037	21074

	N	O	P	Q	R	S
201	10282	10211	9956	9801	9486	9947
202	10405	10335	10060	9893	9569	10052
203	10543	10457	10176	9993	9657	10165
204	10676	10589	10285	10096	9746	10278
205	10809	10710	10393	10194	9843	10390
206	10922	10830	10490	10288	9928	10492
207	11043	10937	10593	10379	10020	10594
208	11157	11050	10693	10472	10105	10695
209	11278	11163	10798	10570	10200	10802
210	11392	11283	10899	10667	10290	10906
211	11512	11394	11006	10762	10391	11013
212	11614	11511	11101	10857	10479	11112
213	11725	11623	11203	10946	10574	11214
214	11830	11743	11304	11038	10660	11315
215	11948	11869	11415	11132	10756	11424
216	12056	12002	11521	11230	10848	11531
217	12167	12126	11627	11327	10950	11639
218	12264	12252	11727	11423	11041	11741
219	12373	12380	11844	11520	11138	11851
220	12478	12517	11959	11626	11228	11962
221	12593	12654	12088	11730	11331	12079
222	12693	12794	12209	11835	11423	12191
223	12795	12923	12331	11943	11519	12302
224	12890	13058	12451	12053	11605	12411
225	13002	13192	12583	12169	11702	12530
226	13104	13339	12711	12292	11793	12648
227	13212	13477	12842	12413	11900	12769
228	13305	13615	12963	12532	12001	12883
229	13411	13749	13092	12651	12116	13004
230	13514	13893	13223	12776	12226	13126
231	13628	14032	13362	12902	12348	13254
232	13730	14180	13491	13029	12462	13378
233	13839	14317	13624	13153	12585	13504
234	13941	14461	13753	13278	12701	13627
235	14051	14601	13891	13403	12826	13754
236	14155	14749	14026	13533	12943	13881
237	14268	14890	14163	13663	13070	14011
238	14372	15041	14294	13795	13187	14138
239	14483	15180	14436	13926	13318	14269
240	14580	15326	14565	14053	13437	14392
241	14691	15470	14709	14184	13563	14523
242	14796	15621	14849	14322	13684	14654
243	14910	15772	15000	14461	13820	14793
244	15010	15926	15141	14601	13948	14925
245	15116	16073	15288	14739	14082	15060
246	15213	16229	15429	14882	14207	15192
247	15323	16380	15585	15024	14346	15332
248	15420	16542	15734	15172	14479	15469
249	15527	16695	15885	15313	14625	15609
250	15621	16846	16026	15457	14761	15742

	T	U	V	W	X	Y
201	7917	7689	7636	7612	7526	7676
202	7960	7692	7692	7647	7557	7710
203	7998	7727	7711	7678	7596	7742
204	8033	7795	7748	7719	7633	7786
205	8070	7803	7794	7757	7679	7821
206	8120	7849	7844	7801	7716	7866
207	8160	7913	7868	7838	7755	7907
208	8196	7952	7901	7877	7789	7943
209	8241	7957	7965	7911	7835	7982
210	8292	7999	7988	7954	7877	8022
211	8320	8061	8028	7996	7920	8065
212	8381	8085	8098	8041	7959	8113
213	8426	8132	8113	8075	8002	8150
214	8461	8191	8153	8115	8040	8192
215	8499	8205	8215	8158	8089	8233
216	8555	8242	8241	8206	8130	8275
217	8590	8321	8281	8246	8174	8322
218	8634	8344	8318	8290	8213	8360
219	8703	8389	8372	8327	8257	8410
220	8828	8446	8398	8374	8301	8469
221	8960	8476	8440	8418	8349	8529
222	9093	8519	8510	8462	8392	8595
223	9199	8564	8533	8499	8437	8646
224	9296	8633	8576	8545	8475	8705
225	9383	8711	8644	8585	8518	8768
226	9489	8836	8667	8632	8556	8836
227	9570	8992	8706	8672	8605	8909
228	9666	9084	8777	8716	8701	8989
229	9757	9193	8896	8761	8828	9087
230	9836	9313	9014	8882	8934	9196
231	9911	9377	9132	9002	9046	9294
232	10009	9453	9260	9125	9148	9399
233	10093	9568	9344	9233	9243	9496
234	10176	9650	9435	9333	9320	9583
235	10268	9723	9543	9415	9403	9670
236	10366	9809	9606	9498	9485	9753
237	10441	9915	9714	9581	9579	9846
238	10530	9973	9804	9670	9658	9927
239	10646	10080	9870	9750	9739	10017
240	10739	10202	9947	9833	9811	10106
241	10835	10281	10047	9902	9891	10191
242	10953	10379	10136	9982	9968	10284
243	11037	10507	10237	10063	10056	10380
244	11167	10589	10348	10158	10136	10480
245	11282	10739	10484	10246	10222	10595
246	11396	10839	10572	10352	10310	10694
247	11488	10958	10703	10455	10418	10804
248	11615	11064	10841	10577	10529	10925
249	11741	11187	10951	10695	10651	11045
250	11858	11328	11068	10822	10766	11168

	Z	AA	AB	AC	AD	AE
201	7182	7007	6692	6320	6167	6674
202	7251	7071	6753	6386	6230	6738
203	7324	7140	6824	6440	6292	6804
204	7390	7200	6888	6499	6352	6866
205	7448	7264	6953	6561	6421	6929
206	7510	7322	7011	6631	6488	6992
207	7559	7392	7077	6692	6555	7055
208	7599	7456	7144	6753	6611	7113
209	7631	7522	7215	6811	6674	7171
210	7654	7582	7280	6878	6743	7227
211	7680	7642	7345	6943	6825	7287
212	7719	7674	7409	7009	6904	7343
213	7759	7716	7487	7070	6986	7404
214	7800	7754	7569	7137	7070	7466
215	7840	7790	7656	7202	7159	7529
216	7882	7618	7735	7279	7248	7552
217	7923	7707	7784	7358	7343	7623
218	7972	7771	7824	7441	7436	7689
219	8017	7832	7863	7524	7537	7755
220	8061	7881	7870	7614	7636	7812
221	8111	7929	7911	7703	7747	7880
222	8157	7974	7955	7791	7844	7944
223	8204	8025	8009	7842	7901	7996
224	8253	8072	8055	7886	7947	8043
225	8300	8121	8103	7926	8001	8090
226	8349	8166	8140	7947	7953	8111
227	8395	8216	8183	7987	7982	8153
228	8448	8262	8224	8040	8046	8204
229	8497	8313	8274	8091	8108	8257
230	8551	8355	8323	8140	8162	8306
231	8601	8404	8381	8190	8216	8358
232	8672	8446	8432	8240	8265	8411
233	8776	8498	8491	8283	8319	8473
234	8933	8548	8540	8329	8368	8544
235	9083	8646	8595	8374	8420	8624
236	9224	8781	8642	8424	8471	8708
237	9359	8925	8692	8472	8526	8795
238	9494	9060	8739	8524	8576	8879
239	9627	9201	8806	8574	8626	8967
240	9763	9332	8944	8628	8676	9069
241	9896	9468	9100	8676	8727	9173
242	10028	9596	9236	8731	8773	9273
243	10163	9734	9369	8779	8825	9374
244	10300	9866	9495	8832	8903	9479
245	10435	10000	9626	8888	9062	9602
246	10565	10127	9753	9005	9208	9732
247	10702	10259	9881	9153	9347	9868
248	10838	10384	10008	9301	9472	10001
249	10977	10521	10140	9432	9602	10134
250	11110	10650	10270	9568	9725	10265

	AF	AG	AH	AI	AJ	AK
201	4610	4707	4520	4253	4236	4465
202	4662	4739	4556	4296	4260	4503
203	4712	4782	4602	4338	4295	4546
204	4769	4831	4652	4371	4335	4592
205	4817	4885	4708	4401	4378	4638
206	4860	4936	4759	4433	4424	4682
207	4894	4981	4803	4476	4465	4724
208	4936	5018	4839	4519	4498	4762
209	4978	5061	4877	4570	4532	4804
210	5031	5106	4921	4612	4567	4847
211	5084	5156	4974	4645	4610	4894
212	5136	5211	5024	4674	4655	4940
213	5178	5269	5076	4711	4704	4988
214	5214	5316	5119	4753	4746	5030
215	5253	5359	5160	4804	4786	5072
216	5301	5398	5200	4853	4821	5115
217	5350	5445	5243	4905	4857	5160
218	5404	5494	5290	4948	4899	5207
219	5457	5552	5345	4987	4947	5258
220	5513	5609	5395	5023	4995	5307
221	5557	5667	5444	5071	5045	5357
222	5601	5724	5488	5120	5092	5405
223	5646	5782	5537	5176	5143	5457
224	5703	5836	5587	5230	5192	5510
225	5762	5900	5644	5283	5248	5567
226	5828	5964	5707	5333	5305	5627
227	5889	6035	5774	5386	5369	5691
228	5953	6101	5835	5440	5429	5752
229	6008	6159	5892	5503	5485	5809
230	6068	6210	5940	5565	5533	5863
231	6127	6263	5993	5631	5582	5919
232	6195	6320	6048	5688	5631	5976
233	6266	6387	6110	5742	5689	6039
234	6336	6453	6166	5790	5745	6098
235	6398	6520	6224	5846	5804	6158
236	6459	6583	6277	5904	5854	6215
237	6513	6643	6330	5970	5903	6272
238	6576	6700	6379	6031	5950	6327
239	6638	6763	6435	6088	6003	6385
240	6705	6824	6491	6139	6054	6443
241	6766	6889	6554	6190	6112	6502
242	6828	6950	6610	6240	6165	6559
243	6883	7008	6663	6299	6219	6614
244	6941	7059	6707	6357	6267	6666
245	6999	7117	6750	6419	6316	6720
246	7065	7173	6790	6476	6365	6774
247	7130	7237	6842	6530	6424	6833
248	7198	7302	6898	6576	6480	6891
249	7260	7372	6964	6625	6543	6953
250	7330	7439	7026	6676	6597	7014

	AL	AM	AN	AO	AP	AQ
201	6307	6612	6488	6400	6287	6419
202	6377	6689	6566	6473	6350	6491
203	6450	6758	6634	6536	6417	6559
204	6522	6834	6705	6603	6481	6629
205	6595	6902	6771	6666	6549	6697
206	6668	6974	6843	6737	6616	6768
207	6740	7042	6913	6803	6684	6836
208	6811	7114	6985	6869	6750	6906
209	6882	7185	7055	6927	6820	6974
210	6955	7265	7133	6992	6886	7046
211	7031	7341	7205	7054	6957	7118
212	7105	7422	7283	7127	7026	7193
213	7177	7494	7358	7197	7099	7265
214	7254	7574	7434	7276	7161	7340
215	7336	7646	7509	7349	7223	7413
216	7415	7723	7587	7426	7280	7486
217	7498	7796	7660	7497	7343	7559
218	7581	7878	7741	7576	7408	7637
219	7672	7954	7819	7652	7482	7716
220	7762	8042	7898	7733	7558	7799
221	7856	8128	7970	7805	7639	7880
222	7944	8219	8047	7886	7716	7962
223	8012	8300	8121	7961	7800	8039
224	8061	8364	8199	8041	7879	8109
225	8106	8398	8274	8113	7956	8169
226	8140	8432	8353	8189	8029	8229
227	8161	8208	8401	8261	8103	8227
228	8191	8291	8441	8338	8172	8287
229	8235	8365	8476	8414	8246	8347
230	8279	8435	8285	8490	8315	8361
231	8325	8498	8369	8529	8387	8422
232	8371	8556	8446	8568	8470	8482
233	8417	8609	8515	8595	8557	8539
234	8457	8669	8580	8211	8598	8503
235	8500	8718	8631	8372	8644	8573
236	8544	8775	8693	8475	8274	8552
237	8592	8828	8749	8548	8381	8620
238	8638	8889	8809	8622	8489	8689
239	8686	8943	8859	8687	8576	8750
240	8733	9011	8916	8752	8650	8812
241	8790	9069	8967	8807	8716	8870
242	8852	9118	9022	8871	8781	8929
243	8908	9194	9080	8930	8842	8991
244	8981	9337	9141	8997	8897	9071
245	9113	9456	9188	9054	8960	9154
246	9232	9576	9310	9126	9018	9252
247	9349	9689	9445	9189	9089	9352
248	9454	9803	9574	9257	9156	9449
249	9559	9906	9692	9392	9220	9554
250	9660	10012	9814	9531	9343	9672

	AR	AS	AT	AU	AV	AW
201	5986	6232	5821	5769	5733	5908
202	6033	6264	5865	5822	5791	5955
203	6089	6303	5910	5876	5851	6006
204	6151	6346	5965	5942	5896	6060
205	6202	6405	6025	6000	5942	6115
206	6244	6465	6085	6054	5990	6168
207	6281	6528	6127	6101	6047	6217
208	6334	6590	6169	6154	6108	6271
209	6392	6666	6219	6211	6166	6331
210	6473	6746	6280	6276	6221	6399
211	6549	6841	6345	6332	6285	6470
212	6626	6923	6407	6392	6353	6540
213	6705	7007	6465	6449	6429	6611
214	6804	7089	6526	6522	6502	6689
215	6902	7186	6597	6604	6572	6772
216	7000	7284	6677	6689	6631	6856
217	7081	7380	6760	6759	6700	6936
218	7165	7459	6834	6830	6776	7013
219	7252	7526	6907	6899	6860	7089
220	7337	7565	6988	6982	6930	7160
221	7385	7617	7080	7062	7000	7229
222	7430	7659	7174	7144	7066	7295
223	7464	7687	7259	7212	7143	7353
224	7485	7710	7336	7287	7222	7408
225	7509	7753	7396	7362	7303	7465
226	7556	7798	7438	7454	7372	7524
227	7598	7848	7476	7537	7441	7580
228	7643	7893	7503	7598	7513	7630
229	7680	7932	7528	7637	7585	7672
230	7724	7971	7562	7682	7631	7714
231	7767	8016	7599	7714	7675	7754
232	7812	8056	7640	7713	7703	7785
233	7854	8105	7681	7758	7713	7822
234	7897	8146	7723	7809	7749	7865
235	7939	8189	7758	7852	7798	7907
236	7987	8229	7798	7901	7844	7952
237	8032	8279	7840	7945	7888	7997
238	8082	8328	7888	7995	7926	8044
239	8125	8376	7933	8036	7969	8088
240	8172	8418	7976	8080	8013	8132
241	8219	8476	8016	8122	8058	8178
242	8271	8594	8060	8168	8095	8238
243	8329	8719	8107	8209	8134	8300
244	8452	8824	8157	8251	8173	8371
245	8560	8927	8203	8289	8218	8439
246	8666	9023	8248	8333	8265	8507
247	8770	9126	8309	8378	8310	8579
248	8879	9224	8435	8427	8350	8663
249	8974	9330	8552	8473	8397	8745
250	9071	9422	8658	8573	8454	8836

	H	I	J	K	L	M
251	20722	21521	21551	21333	21244	21274
252	20887	21721	21751	21537	21457	21471
253	21058	21914	21959	21750	21666	21669
254	21220	22112	22162	21957	21881	21866
255	21391	22301	22368	22171	22085	22063
256	21549	22496	22567	22375	22300	22257
257	21718	22681	22767	22584	22507	22451
258	21877	22870	22961	22786	22719	22643
259	22044	23050	23163	22991	22924	22834
260	22196	23233	23353	23188	23132	23020
261	22360	23411		23389	23328	
262	22512					
263	22678					
264	22828					
265	22989					
266	23137					
267	23292					
268	23441					
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	N	O	P	Q	R	S
251	15728	16991	16177	15599	14907	15880
252	15829	17146	16320	15750	15047	16018
253	15950	17297	16473	15896	15198	16163
254	16066	17455	16617	16046	15338	16304
255	16197	17601	16766	16193	15489	16449
256	16322	17752	16911	16339	15627	16590
257	16470	17899	17065	16486	15779	16740
258	16606	18055	17214	16637	15920	16886
259	16753	18208	17371	16786	16072	17038
260	16887	18365	17516	16934	16212	17183
261	17033	18514	17670	17079	16363	17332
262	17164	18670	17816	17226	16506	17476
263	17311	18819	17968	17372	16657	17625
264	17448	18973	18117	17526	16797	17772
265	17591	19122	18271	17671	16946	17920
266	17721	19279	18416	17820	17085	18064
267	17865	19429	18567	17961	17235	18211
268	17995	19587	18710	18106	17372	18354
269	18144	19739	18863	18249	17522	18503
270	18281	19898	19008	18397	17657	18648
271	18424	20054	19163	18541	17806	18798
272	18559	20212	19313	18682	17943	18942
273	18706	20369	19468	18821	18091	19091
274	18844	20529	19619	18966	18225	19237
275	18995	20683	19776	19106	18372	19386
276	19133	20846	19923	19247	18510	19532
277	19282	21001	20078	19388	18657	19681
278	19418	21165	20231	19533	18793	19828
279	19567	21323	20388	19669	18937	19977
280	19704	21489	20539	19813	19073	20124
281	19849	21650	20697	19954	19219	20274
282	19984	21817	20847	20101	19355	20421
283	20135	21975	21008	20245	19502	20573
284	20268	22141	21161	20400	19638	20722
285	20414	22301	21319	20550	19785	20874
286	20549	22470	21471	20702	19922	21023
287	20695	22633	21632	20852	20073	21177
288	20834	22803	21782	21005	20209	21327
289	20980	22964	21942	21156	20361	21481
290	21115	23132	22096	21311	20498	21630
291	21265	23293	22258	21460	20649	21785
292	21404		22412	21615	20788	
293	21551		22573	21767	20937	
294	21684		22730	21923	21077	
295	21831		22894	22071	21231	
296	21965		23051	22229	21377	
297	22112		23217	22384	21535	
298	22249		23377	22545	21682	
299	22397			22699	21840	
300	22529			22860	21987	

	T	U	V	W	X	Y
251	11975	11432	11219	10936	10891	11291
252	12113	11553	11317	11060	11008	11410
253	12213	11697	11440	11178	11132	11532
254	12338	11790	11575	11305	11258	11653
255	12477	11916	11703	11423	11386	11781
256	12586	12061	11810	11555	11504	11903
257	12713	12157	11941	11673	11626	12022
258	12845	12283	12076	11800	11747	12150
259	12964	12414	12181	11919	11878	12271
260	13100	12531	12304	12049	12002	12397
261	13198	12637	12458	12172	12127	12518
262	13353	12765	12556	12300	12243	12643
263	13460	12913	12678	12414	12369	12767
264	13587	13005	12809	12541	12493	12887
265	13721	13124	12918	12660	12621	13009
266	13838	13265	13036	12786	12743	13134
267	13960	13373	13162	12900	12861	13251
268	14107	13494	13282	13022	12975	13376
269	14211	13635	13387	13135	13094	13492
270	14341	13724	13504	13259	13216	13609
271	14469	13850	13648	13372	13338	13735
272	14603	13981	13748	13496	13454	13856
273	14711	14114	13872	13611	13575	13977
274	14836	14222	14001	13734	13693	14097
275	14973	14343	14120	13844	13813	14219
276	15073	14485	14219	13969	13933	14336
277	15197	14585	14357	14083	14057	14456
278	15345	14707	14462	14209	14174	14579
279	15447	14855	14582	14326	14295	14701
280	15564	14951	14700	14448	14414	14815
281	15701	15075	14834	14561	14541	14942
282	15811	15216	14947	14684	14667	15065
283	15932	15341	15066	14796	14800	15187
284	16065	15440	15210	14925	14931	15314
285	16188	15571	15315	15042	15064	15436
286	16303	15705	15436	15167	15200	15562
287	16419	15804	15582	15289	15339	15687
288	16567	15932	15687	15426	15476	15818
289	16667	16081	15825	15554	15618	15949
290	16795	16178	15963	15694	15752	16076
291	16935	16306	16083	15821	15891	16207
292	17046	16446	16215	15965	16028	16340
293	17161	16548	16355	16097	16171	16466
294	17307	16670	16502	16242	16311	16606
295	17410	16814	16631	16374	16453	16736
296	17536	16917	16764	16519	16589	16865
297	17672	17042	16921	16652	16731	17004
298	17800	17160	17041	16798	16868	17133
299	17899	17310	17187	16933	17013	17268
300	18025	17412	17342	17079	17152	17402

	Z	AA	AB	AC	AD	AE
251	11243	10782	10399	9698	9852	10395
252	11376	10911	10526	9834	9974	10524
253	11514	11044	10659	9959	10101	10655
254	11652	11173	10785	10092	10222	10785
255	11789	11305	10918	10218	10345	10915
256	11924	11427	11043	10352	10462	11042
257	12060	11562	11171	10477	10585	11171
258	12197	11692	11295	10607	10701	11298
259	12336	11828	11425	10727	10823	11428
260	12473	11955	11550	10859	10939	11555
261	12609	12091	11681	10982	11058	11684
262	12745	12217	11804	11108	11172	11809
263	12884	12356	11931	11228	11290	11938
264	13023	12483	12055	11358	11401	12064
265	13164	12619	12186	11476	11517	12192
266	13303	12747	12309	11606	11627	12318
267	13443	12880	12439	11727	11744	12447
268	13582	13007	12563	11855	11852	12572
269	13724	13144	12694	11974	11969	12701
270	13866	13272	12820	12102	12080	12828
271	14007	13410	12949	12223	12196	12957
272	14146	13536	13073	12352	12307	13083
273	14285	13676	13201	12470	12426	13212
274	14426	13806	13327	12595	12539	13339
275	14565	13945	13459	12710	12660	13468
276	14701	14071	13584	12835	12776	13593
277	14839	14208	13713	12952	12900	13722
278	14978	14332	13838	13075	13016	13848
279	15118	14470	13970	13188	13140	13977
280	15258	14597	14097	13315	13257	14105
281	15392	14734	14227	13430	13382	14233
282	15527	14860	14351	13554	13498	14358
283	15663	14995	14476	13673	13625	14486
284	15797	15121	14602	13797	13743	14612
285	15933	15256	14733	13918	13872	14742
286	16066	15383	14855	14049	13993	14869
287	16200	15518	14984	14174	14122	15000
288	16332	15642	15109	14306	14243	15126
289	16460	15777	15239	14430	14375	15256
290	16591	15902	15365	14562	14501	15384
291	16722	16039	15494	14688	14635	15516
292	16848	16164	15621	14821	14765	15644
293	16979	16303	15750	14949	14903	15777
294	17111	16432	15879	15085	15033	15908
295	17243	16570	16013	15210	15168	16041
296	17373	16698	16142	15347	15299	16172
297	17503	16838	16278	15473	15438	16306
298	17635	16967	16410	15611	15570	16439
299	17769	17109	16548	15739	15706	16574
300	17897	17238	16684	15879	15834	16706

	AF	AG	AH	AI	AJ	AK
251	7397	7500	7092	6738	6654	7076
252	7472	7534	7153	6796	6705	7132
253	7534	7570	7223	6857	6758	7188
254	7582	7601	7292	6910	6810	7239
255	7619	7628	7364	6962	6867	7288
256	7642	7661	7429	7011	6922	7333
257	7633	7696	7496	7070	6982	7375
258	7679	7727	7539	7128	7042	7423
259	7722	7763	7574	7189	7104	7470
260	7769	7802	7608	7251	7163	7519
261	7810	7841	7647	7317	7231	7569
262	7857	7879	7680	7375	7300	7618
263	7898	7919	7711	7438	7375	7668
264	7941	7957	7734	7498	7448	7716
265	7982	7997	7766	7555	7522	7764
266	8027	8034	7803	7597	7585	7809
267	8068	8075	7847	7641	7631	7852
268	8112	8114	7886	7657	7669	7888
269	8152	8159	7929	7659	7710	7922
270	8197	8199	7969	7700	7746	7962
271	8237	8272	8014	7742	7726	7998
272	8285	8366	8053	7783	7726	8043
273	8377	8457	8094	7826	7785	8108
274	8473	8538	8129	7868	7831	8168
275	8559	8623	8167	7913	7878	8228
276	8647	8700	8203	7950	7920	8284
277	8730	8781	8255	7992	7963	8344
278	8813	8847	8354	8030	8004	8410
279	8889	8915	8453	8070	8051	8476
280	8965	8981	8541	8103	8095	8537
281	9039	9056	8630	8142	8138	8601
282	9118	9132	8709	8175	8179	8663
283	9200	9228	8799	8217	8220	8733
284	9290	9328	8889	8308	8262	8815
285	9377	9435	8981	8410	8356	8912
286	9472	9539	9065	8498	8454	9006
287	9558	9647	9154	8592	8545	9099
288	9650	9751	9237	8678	8629	9189
289	9738	9860	9332	8771	8714	9283
290	9832	9965	9421	8856	8796	9374
291	9922	10075	9517	8948	8880	9468
292	10016	10178	9614	9033	8963	9561
293	10105	10288	9716	9123	9055	9657
294	10199	10392	9814	9211	9144	9752
295	10286	10504	9922	9307	9239	9852
296	10377	10610	10027	9399	9335	9950
297	10470	10727	10140	9501	9435	10055
298	10569	10839	10250	9596	9539	10159
299	10664	10961	10366	9699	9651	10268
300	10767	11072	10473	9799	9759	10374

	AL	AM	AN	AO	AP	AQ
251	9760	10112	9929	9658	9469	9786
252	9857	10221	10050	9792	9587	9901
253	9952	10327	10166	9914	9706	10013
254	10046	10443	10289	10047	9822	10129
255	10146	10554	10413	10173	9943	10246
256	10244	10681	10544	10309	10066	10369
257	10344	10800	10674	10439	10200	10491
258	10439	10930	10815	10581	10338	10621
259	10537	11056	10951	10716	10479	10748
260	10635	11193	11095	10862	10621	10881
261	10738	11326	11236	10997	10762	11012
262	10839	11469	11380	11141	10903	11146
263	10944	11601	11516	11278	11044	11277
264	11046	11744	11660	11426	11186	11412
265	11154	11875	11794	11564	11330	11543
266	11258	12020	11941	11710	11471	11680
267	11366	12156	12076	11850	11614	11812
268	11479	12301	12218	11995	11755	11950
269	11609	12435	12357	12133	11899	12087
270	11736			12276	12041	12018
271	11869			12411	12179	12153
272	11993				12319	12156
273	12124				12457	12291
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	AR	AS	AT	AU	AV	AW
251	9160	9512	8753	8690	8590	8941
252	9262	9600	8845	8803	8710	9044
253	9357	9704	8943	8909	8822	9147
254	9452	9804	9045	9024	8922	9249
255	9543	9914	9147	9126	9029	9352
256	9642	10010	9242	9229	9132	9451
257	9740	10115	9336	9328	9243	9552
258	9849	10217	9433	9441	9342	9656
259	9950	10331	9533	9546	9447	9761
260	10056	10437	9644	9659	9545	9868
261	10150	10548	9747	9761	9656	9972
262	10253	10648	9848	9872	9763	10077
263	10354	10758	9951	9979	9879	10184
264	10467	10862	10059	10100	9983	10294
265	10570	10977	10174	10212	10091	10405
266	10676	11083	10285	10329	10198	10514
267	10771	11194	10395	10436	10319	10623
268	10878	11296	10500	10552	10435	10732
269	10983	11407	10610	10668	10558	10845
270	11098	11512	10724	10793	10668	10959
271	11200	11630	10843	10909	10786	11074
272	11310	11733	10959	11031	10902	11187
273	11410	11843	11070	11141	11028	11298
274	11521	11944	11184	11269	11147	11413
275	11628	12058	11303	11388	11267	11529
276	11742	12162	11419	11516	11382	11644
277	11844	12273	11540	11634	11503	11759
278	11955	12376	11656	11757	11625	11874
279	12060	12487	11771	11874	11754	11989
280	12179		11886	12005	11873	11986
281	12288		12005	12128	11999	12105
282	12401		12126	12257	12118	12226
283			12246	12373	12249	12289
284			12362	12495	12375	12411
285			12482			
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	N	O	P	Q	R	S
301	22680			23018	22150	
302	22818			23180	22299	
303	22966			23333	22460	
304	23104				22611	
305	23254				22776	
306	23396				22928	
307					23093	
308					23245	
309					23408	
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	T	U	V	W	X	Y
301	18157	17541	17465	17214	17295	17534
302	18268	17695	17607	17361	17432	17673
303	18384	17802	17766	17497	17577	17805
304	18526	17933	17899	17645	17713	17943
305	18625	18104	18043	17779	17855	18081
306	18754	18215	18182	17927	17990	18214
307	18880	18360	18342	18063	18127	18354
308	19000	18516	18465	18208	18264	18491
309	19111	18648	18605	18345	18406	18623
310	19242	18781	18766	18491	18542	18764
311	19373	18931	18893	18626	18684	18901
312	19483	19096	19056	18774	18820	19046
313	19602	19220	19205	18904	18962	19179
314	19747	19362	19329	19052	19100	19318
315	19839	19534	19473	19186	19243	19455
316	19977	19650	19630	19338	19381	19595
317	20111	19803	19773	19478	19524	19738
318	20216	19974	19915	19631	19661	19879
319	20343	20102	20068	19770	19805	20018
320	20482	20271	20227	19920	19947	20169
321	20598	20414	20362	20060	20094	20306
322	20724	20558	20506	20209	20234	20446
323	20837	20700	20678	20349	20381	20589
324	20993	20852	20806	20501	20524	20735
325	21094	21028	20962	20642	20669	20879
326	21242	21148	21123	20796	20815	21025
327	21388	21310	21264	20938	20966	21173
328	21516	21484	21414	21098	21117	21326
329	21654	21611	21581	21244	21269	21472
330	21821	21774	21728	21403	21418	21629
331	21943	21956	21878	21548	21572	21779
332	22087	22077	22028	21705	21722	21924
333	22239	22241	22204	21854	21880	22084
334	22391	22407	22337	22015	22032	22236
335	22544	22568	22497	22164	22190	22393
336	22682	22712	22665	22322	22348	22546
337	22837	22860	22807	22472	22509	22697
338	22963	23044	22955	22637	22670	22854
339	23113	23171	23141	22793	22832	23010
340	23280	23333	23276	22960	22992	23168
341	23395		23435	23118	23158	
342				23283	23319	
343				23439		
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	Z	AA	AB	AC	AD	AE
301	18030	17379	16821	16010	15972	16842
302	18161	17510	16954	16152	16102	16976
303	18295	17653	17091	16286	16238	17113
304	18425	17783	17228	16428	16368	17246
305	18562	17925	17368	16566	16506	17385
306	18694	18056	17506	16709	16639	17521
307	18828	18197	17641	16844	16780	17658
308	18957	18331	17777	16991	16913	17794
309	19091	18477	17912	17129	17055	17933
310	19223	18609	18052	17278	17191	18071
311	19359	18754	18193	17413	17333	18210
312	19489	18893	18328	17560	17472	18348
313	19627	19042	18467	17699	17616	18490
314	19758	19174	18607	17850	17755	18629
315	19894	19318	18751	17986	17894	18769
316	20026	19451	18892	18134	18031	18907
317	20160	19596	19037	18274	18174	19048
318	20293	19725	19179	18426	18313	19187
319	20427	19871	19322	18569	18458	19329
320	20561	20004	19466	18724	18598	19471
321	20699	20148	19610	18870	18748	19615
322	20836	20284	19753	19026	18887	19757
323	20972	20428	19899	19169	19031	19900
324	21107	20562	20044	19324	19172	20042
325	21245	20711	20192	19472	19322	20188
326	21383	20849	20340	19628	19464	20333
327	21519	21001	20488	19776	19616	20480
328	21652	21140	20636	19934	19761	20625
329	21792	21290	20783	20086	19913	20773
330	21929	21430	20931	20246	20060	20919
331	22067	21588	21080	20393	20212	21068
332	22201	21728	21224	20557	20360	21214
333	22343	21884	21374	20709	20515	21365
334	22478	22024	21522	20871	20663	21512
335	22618	22177	21671	21019	20821	21661
336	22752	22318	21818	21179	20968	21807
337	22890	22470	21969	21328	21124	21956
338	23025	22607	22124	21488	21269	22103
339	23162	22758	22277	21639	21425	22252
340	23293	22897	22430	21798	21575	22399
341	23432	23049	22584	21941	21729	22547
342		23188	22738	22099	21879	
343		23339	22892	22243	22036	
344			23044	22402	22185	
345			23194	22548	22342	
346			23344	22707	22488	
347				22853	22644	
348				23010	22790	
349				23154	22944	
350				23307	23092	

	AF	AG	AH	AI	AJ	AK
301	10868	11193	10592	9909	9875	10487
302	10974	11309	10701	10013	9986	10597
303	11078	11431	10818	10134	10105	10713
304	11189	11545	10929	10241	10222	10825
305	11296	11668	11052	10359	10342	10943
306	11411	11782	11167	10469	10456	11057
307	11516	11904	11290	10591	10574	11175
308	11628	12016	11407	10706	10688	11289
309	11736	12137	11531	10826	10807	11407
310	11850	12245	11650	10938	10923	11521
311	11959	12363	11779	11059	11041	11640
312	12073	12472	11899	11173	11155	11754
313	12182		12020	11294	11272	11692
314	12295		12138	11403	11387	11806
315	12406		12258	11521	11504	11922
316			12375	11631	11618	11875
317				11749	11733	11741
318				11865	11847	11856
319				11987	11962	11975
320				12096	12075	12086
321				12216	12196	12206
322				12327	12311	12319
323				12446	12427	12437
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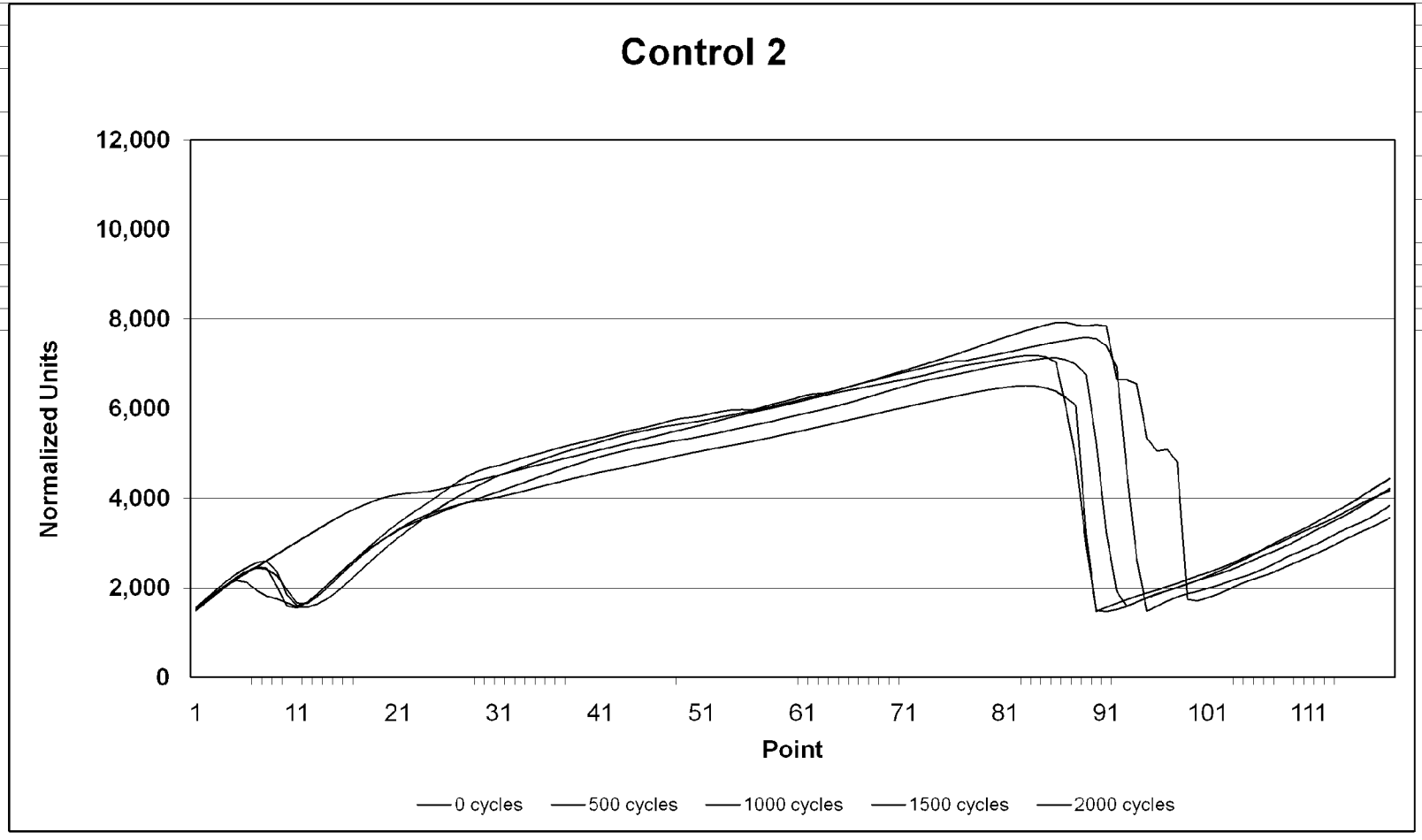
	Z	AA	AB	AC	AD	AE
351				23446	23245	
352					23394	

	A
1	File:
2	Make:
3	Model:
4	Step Size [inch]:
5	Deflection [inch/lb]:



	B	C	D	E	F	G
1	770-N2-0	7188				
2	Remington					
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1573	1410	1523	1442	1559	1501
8	1759	1588	1707	1621	1752	1685
9	1943	1772	1892	1796	1932	1867
10	2132	1942	2071	1964	2101	2042
11	2302	2089	2227	2092	2250	2192
12	2468	2223	2368	2196	2394	2330
13	2608	2355	2514	2301	2540	2464
14	2756	2492	2662	2421	2691	2604
15	2899	2636	2812	2547	2836	2746
16	3044	2777	2961	2679	2987	2890
17	3174	2916	3107	2809	3125	3026
18	3307	3051	3252	2945	3265	3164
19	3431	3191	3394	3078	3398	3298
20	3555	3326	3532	3218	3539	3434
21	3643	3459	3676	3364	3676	3564
22	3711	3585	3814	3512	3797	3684
23	3781	3722	3920	3661	3865	3790
24	3853	3855	3981	3816	3922	3885
25	3912	3973	4039	3964	3972	3972
26	3966	4040	4078	4093	4018	4039
27	4008	4078	4104	4166	4042	4080
28	4047	4098	4132	4205	4064	4109
29	4075	4113	4156	4222	4080	4129
30	4094	4145	4184	4243	4098	4153
31	4114	4201	4242	4292	4123	4194
32	4138	4257	4301	4350	4176	4244
33	4165	4310	4365	4411	4232	4297
34	4205	4358	4425	4475	4290	4351
35	4244	4419	4487	4543	4341	4407
36	4293	4473	4544	4604	4399	4463
37	4340	4529	4600	4667	4455	4518
38	4400	4593	4651	4729	4517	4578
39	4458	4661	4711	4790	4577	4639
40	4522	4714	4763	4845	4646	4698
41	4567	4768	4822	4901	4707	4753
42	4615	4827	4880	4952	4762	4807
43	4664	4886	4939	5007	4814	4862
44	4723	4939	4990	5058	4870	4916
45	4772	5001	5043	5117	4924	4971
46	4831	5058	5098	5177	4983	5029
47	4876	5117	5158	5234	5039	5085
48	4922	5179	5208	5283	5099	5138
49	4960	5247	5266	5337	5156	5193
50	5012	5300	5322	5389	5214	5247

	H	I	J	K	L	M
1	770-N2-500	7591				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1434	1509	1519	1513	1469	1489
8	1607	1688	1699	1697	1660	1670
9	1779	1869	1883	1885	1839	1851
10	1952	2043	2062	2064	2021	2028
11	2111	2214	2241	2245	2193	2201
12	2243	2371	2403	2406	2358	2356
13	2291	2488	2546	2538	2493	2471
14	2081	2446	2574	2550	2539	2438
15	1579	1899	2245	2164	2281	2034
16	1498	1472	1692	1608	1714	1597
17	1669	1479	1562	1526	1543	1556
18	1872	1615	1655	1633	1625	1680
19	2074	1802	1830	1810	1785	1860
20	2276	2012	2030	2006	1988	2062
21	2469	2224	2242	2218	2196	2270
22	2667	2437	2450	2427	2411	2478
23	2860	2646	2660	2642	2618	2685
24	3057	2850	2859	2846	2824	2887
25	3250	3049	3062	3053	3017	3086
26	3440	3231	3258	3249	3194	3274
27	3613	3383	3444	3438	3356	3447
28	3774	3525	3608	3604	3515	3605
29	3926	3663	3761	3763	3670	3757
30	4081	3815	3912	3914	3829	3910
31	4234	3969	4064	4072	3989	4066
32	4392	4125	4218	4226	4147	4222
33	4544	4282	4373	4380	4302	4376
34	4707	4420	4516	4479	4460	4516
35	4865	4483	4600	4539	4586	4615
36	4976	4527	4647	4613	4656	4684
37	4972	4575	4718	4682	4715	4732
38	5048	4641	4792	4743	4787	4802
39	5145	4715	4861	4816	4850	4877
40	5199	4791	4932	4889	4894	4941
41	5258	4862	5003	4951	4935	5002
42	5339	4932	5079	5001	4990	5068
43	5424	4994	5136	5067	5044	5133
44	5520	5047	5186	5128	5079	5192
45	5589	5087	5222	5197	5116	5242
46	5620	5149	5246	5269	5196	5296
47	5658	5216	5281	5328	5271	5351
48	5742	5269	5339	5363	5316	5406
49	5848	5310	5387	5415	5342	5460
50	5915	5368	5445	5465	5382	5515

	N	O	P	Q	R	S
1	770-N2-1000	7134				
2						
3						
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1562	1498	1483	1469	1583	1519
8	1742	1674	1679	1647	1769	1702
9	1922	1844	1869	1833	1957	1885
10	2101	2018	2059	2018	2129	2065
11	2251	2183	2237	2203	2281	2231
12	2337	2343	2385	2373	2410	2370
13	2198	2465	2502	2529	2534	2446
14	1740	2489	2580	2626	2630	2413
15	1400	2199	2532	2580	2656	2273
16	1505	1646	2058	2143	2434	1957
17	1683	1457	1612	1681	1862	1659
18	1884	1515	1563	1647	1639	1650
19	2105	1658	1689	1803	1750	1801
20	2327	1853	1885	2009	1944	2004
21	2542	2065	2102	2230	2158	2219
22	2721	2293	2329	2450	2369	2432
23	2891	2511	2548	2672	2585	2641
24	3059	2712	2736	2867	2781	2831
25	3230	2881	2893	3034	2947	2997
26	3378	3049	3050	3182	3091	3150
27	3478	3216	3200	3295	3231	3284
28	3567	3378	3340	3380	3333	3400
29	3667	3501	3429	3474	3411	3496
30	3767	3592	3498	3566	3495	3584
31	3862	3681	3573	3661	3585	3672
32	3935	3775	3666	3745	3675	3759
33	3994	3870	3762	3819	3764	3842
34	4050	3954	3859	3883	3852	3920
35	4116	4025	3947	3958	3937	3997
36	4189	4094	4041	4034	4021	4076
37	4263	4176	4124	4111	4098	4154
38	4330	4257	4212	4189	4188	4235
39	4406	4333	4290	4273	4269	4314
40	4481	4416	4375	4354	4347	4395
41	4564	4497	4454	4437	4425	4475
42	4631	4585	4547	4512	4504	4556
43	4708	4667	4619	4593	4591	4636
44	4779	4747	4699	4669	4669	4713
45	4848	4826	4778	4749	4745	4789
46	4918	4892	4862	4820	4822	4863
47	4990	4935	4937	4893	4890	4929
48	5050	4970	5014	4953	4948	4987
49	5106	5015	5077	5005	5007	5042
50	5159	5061	5139	5043	5066	5094

	T	U	V	W	X	Y
1	770-n2-1500	6512				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1566	1519	1577	1530	1599	1558
8	1737	1728	1777	1731	1801	1755
9	1912	1933	1979	1933	2005	1952
10	2058	2138	2180	2132	2194	2140
11	2190	2320	2371	2299	2348	2306
12	2319	2469	2541	2435	2482	2449
13	2449	2577	2651	2545	2581	2561
14	2550	2583	2671	2597	2582	2597
15	2570	2219	2408	2415	2228	2368
16	2271	1613	1826	1856	1671	1847
17	1644	1540	1665	1594	1575	1604
18	1472	1690	1809	1681	1699	1670
19	1591	1898	2015	1861	1900	1853
20	1787	2128	2229	2076	2124	2069
21	2029	2346	2423	2286	2347	2286
22	2262	2549	2618	2482	2550	2492
23	2480	2729	2804	2667	2725	2681
24	2676	2892	2969	2835	2880	2850
25	2849	3036	3119	2984	3025	3003
26	2996	3185	3270	3130	3172	3151
27	3147	3332	3410	3275	3318	3296
28	3298	3483	3504	3414	3465	3433
29	3455	3613	3563	3511	3597	3548
30	3603	3693	3634	3579	3691	3640
31	3707	3758	3708	3644	3757	3715
32	3784	3829	3786	3717	3830	3789
33	3852	3900	3852	3782	3904	3858
34	3874	3972	3900	3833	3975	3911
35	3885	4037	3930	3860	4028	3948
36	3915	4088	3965	3891	4065	3985
37	3971	4115	4015	3934	4098	4027
38	4018	4165	4082	3991	4148	4081
39	4077	4216	4146	4044	4194	4135
40	4128	4271	4216	4100	4249	4193
41	4192	4334	4275	4155	4305	4252
42	4243	4398	4339	4213	4363	4311
43	4291	4461	4396	4268	4417	4367
44	4331	4523	4459	4333	4470	4423
45	4381	4578	4519	4391	4514	4477
46	4425	4639	4580	4451	4563	4532
47	4479	4694	4634	4498	4608	4583
48	4526	4743	4675	4541	4653	4628
49	4574	4788	4715	4579	4693	4670
50	4626	4846	4760	4621	4745	4720

	Z	AA	AB	AC	AD	AE
1	770-N2-2000	7924				
2						
3	770					
4	0.0005					
5	1.11E-06					
6	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Single Action**	**Avg.**
7	1562	1576	1456	1491	1581	1533
8	1760	1766	1644	1683	1766	1724
9	1948	1942	1834	1868	1944	1907
10	2124	2096	2004	2032	2079	2067
11	2249	2186	2143	2144	2111	2167
12	2244	2131	2166	2103	1969	2123
13	1935	1924	2040	1951	1880	1946
14	1496	1790	1973	1911	1893	1813
15	1404	1606	2027	1933	1818	1758
16	1532	1426	2025	1766	1596	1669
17	1703	1402	1794	1524	1452	1575
18	1906	1500	1546	1431	1437	1564
19	2130	1659	1490	1438	1474	1638
20	2362	1866	1506	1502	1555	1758
21	2585	2077	1604	1631	1709	1921
22	2808	2293	1770	1817	1902	2118
23	3012	2505	1979	2036	2115	2329
24	3195	2720	2193	2252	2320	2536
25	3367	2924	2413	2468	2530	2740
26	3540	3113	2619	2672	2732	2935
27	3702	3283	2816	2861	2925	3117
28	3866	3451	2993	3034	3102	3289
29	4027	3617	3172	3204	3279	3460
30	4179	3789	3337	3365	3443	3623
31	4289	3951	3502	3527	3604	3775
32	4368	4111	3656	3679	3756	3914
33	4428	4267	3809	3830	3906	4048
34	4488	4410	3955	3973	4036	4172
35	4545	4519	4102	4123	4170	4292
36	4614	4607	4237	4267	4320	4409
37	4682	4678	4343	4399	4456	4512
38	4748	4740	4420	4496	4561	4593
39	4809	4799	4503	4592	4656	4672
40	4877	4878	4583	4692	4750	4756
41	4945	4952	4666	4793	4854	4842
42	5015	5021	4732	4889	4951	4922
43	5075	5088	4807	4985	5045	5000
44	5127	5154	4883	5065	5119	5070
45	5159	5221	4967	5141	5187	5135
46	5197	5293	5038	5211	5242	5196
47	5234	5361	5118	5281	5313	5261
48	5279	5431	5191	5354	5382	5327
49	5319	5481	5274	5435	5444	5391
50	5362	5527	5341	5511	5486	5445

	B	C	D	E	F	G
51	5064	5359	5377	5450	5267	5303
52	5123	5412	5430	5506	5328	5360
53	5175	5477	5490	5561	5381	5417
54	5229	5543	5543	5610	5438	5473
55	5274	5614	5598	5662	5489	5527
56	5336	5676	5642	5712	5543	5582
57	5385	5751	5693	5761	5593	5637
58	5440	5821	5742	5813	5657	5695
59	5491	5893	5796	5864	5716	5752
60	5558	5952	5854	5909	5780	5811
61	5609	6015	5913	5962	5838	5867
62	5649	6067	5962	6016	5898	5918
63	5675	6130	6016	6062	5951	5967
64	5701	6189	6073	6106	6008	6015
65	5740	6252	6132	6153	6056	6067
66	5796	6319	6190	6195	6111	6122
67	5848	6390	6259	6240	6150	6177
68	5902	6455	6308	6286	6205	6231
69	5953	6531	6358	6337	6250	6286
70	6017	6597	6399	6389	6302	6341
71	6070	6658	6439	6429	6349	6389
72	6114	6707	6477	6461	6401	6432
73	6136	6762	6526	6492	6453	6474
74	6158	6803	6576	6533	6517	6517
75	6174	6839	6635	6584	6573	6561
76	6200	6867	6693	6644	6633	6607
77	6222	6892	6749	6700	6685	6650
78	6257	6913	6800	6752	6753	6695
79	6296	6945	6855	6811	6823	6746
80	6353	6977	6912	6865	6899	6801
81	6402	7022	6973	6918	6964	6856
82	6453	7075	7011	6977	7038	6911
83	6491	7144	7039	7036	7101	6962
84	6535	7183	7060	7075	7156	7002
85	6590	7180	7091	7107	7192	7032
86	6657	7181	7122	7141	7246	7069
87	6716	7226	7153	7191	7282	7114
88	6771	7272	7175	7244	7319	7156
89	6800	7322	7205	7274	7313	7183
90	6817	7337	7221	7271	7293	7188
91	6818	7323	7218	7231	7181	7154
92	6796	7268	7132	7200	6803	7040
93	6616	7125	6872	7086	2422	6024
94	6295	6892	3044	6539	1473	4849
95	3341	6470	1447	1973	1454	2937
96	1418	1679	1474	1502	1424	1499
97	1405	1479	1430	1495	1544	1471
98	1456	1420	1575	1455	1698	1521
99	1611	1424	1732	1422	1743	1586
100	1790	1437	1839	1619	1732	1683

	H	I	J	K	L	M
51	5920	5425	5497	5513	5438	5559
52	5979	5484	5549	5548	5484	5609
53	6097	5521	5600	5608	5540	5673
54	6196	5586	5652	5654	5605	5739
55	6240	5621	5695	5691	5664	5782
56	6205	5674	5729	5700	5722	5806
57	6198	5716	5774	5743	5778	5842
58	6306	5759	5816	5780	5821	5896
59	6419	5819	5794	5801	5860	5939
60	6482	5878	5811	5828	5880	5976
61	6379	5925	5850	5854	5881	5978
62	6159	5995	5887	5873	5920	5967
63	6318	6020	5936	5927	5967	6034
64	6455	6037	5998	5974	6026	6098
65	6541	6085	6046	6023	6070	6153
66	6630	6150	6101	6056	6124	6212
67	6726	6210	6175	6105	6179	6279
68	6784	6267	6224	6152	6222	6330
69	6690	6288	6275	6209	6251	6343
70	6745	6326	6324	6249	6293	6387
71	6863	6388	6372	6296	6341	6452
72	6941	6467	6447	6340	6399	6519
73	6950	6535	6538	6399	6473	6579
74	6925	6595	6608	6469	6544	6628
75	6999	6658	6660	6536	6593	6689
76	7119	6734	6698	6590	6618	6752
77	7224	6797	6732	6654	6642	6810
78	7275	6864	6777	6720	6690	6865
79	7316	6883	6833	6783	6757	6914
80	7384	6921	6885	6823	6825	6968
81	7452	6955	6951	6870	6888	7023
82	7424	6998	7002	6908	6948	7056
83	7229	7078	7037	6948	7015	7061
84	7265	7155	7077	6985	7063	7109
85	7344	7171	7125	7037	7087	7153
86	7416	7167	7193	7085	7133	7199
87	7485	7203	7230	7126	7196	7248
88	7549	7263	7255	7157	7248	7294
89	7602	7319	7308	7206	7296	7346
90	7672	7362	7357	7259	7347	7399
91	7733	7385	7391	7313	7393	7443
92	7778	7430	7427	7337	7445	7483
93	7825	7482	7467	7358	7479	7522
94	7892	7547	7496	7386	7493	7563
95	7921	7594	7529	7415	7496	7591
96	7789	7610	7499	7387	7485	7554
97	7659	7497	7303	7124	7415	7400
98	7624	6637	6659	6560	7169	6930
99	7170	2337	3969	2733	6847	4611
100	2296	1424	1471	1429	6549	2634

	N	O	P	Q	R	S
51	5212	5100	5188	5082	5119	5140
52	5253	5136	5251	5109	5143	5178
53	5303	5175	5309	5148	5175	5222
54	5359	5220	5349	5183	5217	5266
55	5421	5232	5367	5228	5260	5302
56	5473	5270	5384	5270	5299	5339
57	5530	5326	5408	5319	5336	5384
58	5576	5373	5470	5349	5373	5428
59	5628	5420	5516	5396	5418	5476
60	5673	5476	5568	5449	5469	5527
61	5729	5520	5615	5499	5519	5576
62	5779	5563	5664	5545	5565	5623
63	5833	5610	5699	5603	5605	5670
64	5879	5670	5749	5649	5649	5719
65	5934	5734	5808	5699	5698	5775
66	5983	5790	5882	5745	5743	5829
67	6031	5845	5951	5802	5780	5882
68	6078	5906	6015	5852	5816	5933
69	6135	5965	6068	5905	5857	5986
70	6192	6027	6125	5953	5908	6041
71	6259	6084	6173	6009	5964	6098
72	6322	6148	6230	6064	6035	6160
73	6387	6211	6290	6124	6123	6227
74	6446	6279	6358	6170	6224	6295
75	6513	6332	6422	6224	6322	6363
76	6574	6395	6495	6276	6408	6430
77	6637	6462	6553	6337	6486	6495
78	6700	6517	6605	6397	6570	6558
79	6767	6573	6653	6457	6639	6618
80	6820	6634	6690	6499	6698	6668
81	6849	6693	6717	6549	6767	6715
82	6857	6756	6773	6596	6799	6756
83	6907	6809	6836	6656	6798	6801
84	6965	6860	6912	6719	6801	6851
85	7026	6908	6975	6780	6842	6906
86	7070	6946	7018	6828	6888	6950
87	7113	6979	7053	6877	6912	6987
88	7148	7020	7095	6911	6927	7020
89	7195	7067	7125	6955	6950	7058
90	7224	7109	7154	7000	6986	7095
91	7232	7132	7165	7046	7039	7123
92	7191	7160	7204	7051	7064	7134
93	7064	7180	7243	6909	7046	7088
94	6883	7167	7277	6701	6906	6987
95	6636	6764	7185	6592	6644	6764
96	1568	6347	6774	5004	6526	5244
97	1484	2413	6526	1459	4283	3233
98	1625	1445	3546	1553	1465	1927
99	1705	1526	1464	1669	1595	1592
100	1793	1639	1546	1780	1680	1688

	T	U	V	W	X	Y
51	4682	4899	4803	4663	4794	4768
52	4727	4952	4848	4711	4846	4817
53	4779	4999	4889	4754	4898	4864
54	4829	5049	4943	4801	4955	4915
55	4884	5092	4993	4843	5008	4964
56	4935	5135	5049	4883	5062	5013
57	4989	5171	5101	4918	5104	5057
58	5038	5213	5157	4958	5150	5103
59	5081	5249	5206	4992	5183	5142
60	5122	5291	5262	5039	5212	5185
61	5165	5332	5309	5078	5241	5225
62	5202	5379	5368	5127	5272	5270
63	5245	5429	5420	5174	5307	5315
64	5292	5484	5472	5227	5349	5365
65	5342	5527	5527	5277	5392	5413
66	5385	5582	5588	5331	5440	5465
67	5435	5634	5631	5379	5481	5512
68	5483	5689	5685	5436	5528	5564
69	5537	5737	5733	5489	5573	5614
70	5584	5790	5783	5545	5624	5665
71	5638	5835	5830	5597	5675	5715
72	5683	5883	5881	5660	5736	5769
73	5726	5929	5930	5721	5791	5819
74	5767	5977	5988	5789	5849	5874
75	5817	6022	6044	5843	5900	5925
76	5857	6070	6108	5899	5957	5978
77	5898	6115	6164	5952	6004	6027
78	5937	6166	6223	6011	6055	6078
79	5980	6206	6274	6065	6099	6125
80	6019	6251	6332	6122	6144	6174
81	6063	6293	6385	6171	6184	6219
82	6102	6338	6447	6226	6230	6269
83	6149	6380	6509	6278	6275	6318
84	6184	6421	6561	6334	6321	6364
85	6211	6450	6621	6385	6354	6404
86	6231	6485	6679	6435	6392	6444
87	6246	6506	6716	6477	6419	6473
88	6254	6534	6754	6517	6445	6501
89	6255	6547	6770	6535	6455	6512
90	6210	6535	6779	6535	6448	6501
91	6119	6490	6769	6512	6410	6460
92	6045	6387	6722	6459	6326	6388
93	6022	6223	6519	6278	6190	6246
94	5793	6130	6201	6115	6103	6068
95	1507	3704	2864	4141	3787	3201
96	1589	1479	1448	1430	1425	1474
97	1672	1554	1545	1527	1545	1569
98	1760	1631	1615	1629	1634	1654
99	1856	1723	1694	1726	1691	1738
100	1943	1812	1779	1806	1739	1816

	Z	AA	AB	AC	AD	AE
51	5403	5555	5396	5578	5533	5493
52	5454	5588	5443	5619	5585	5538
53	5503	5619	5491	5660	5656	5586
54	5556	5647	5518	5686	5713	5624
55	5602	5677	5553	5710	5750	5658
56	5658	5722	5590	5725	5772	5693
57	5704	5768	5626	5748	5814	5732
58	5754	5828	5660	5776	5853	5774
59	5800	5884	5705	5817	5883	5818
60	5858	5944	5748	5861	5903	5863
61	5915	5994	5790	5903	5932	5907
62	5973	6052	5827	5947	5962	5952
63	6022	6103	5871	5990	6009	5999
64	6082	6162	5919	6036	6047	6049
65	6132	6216	5978	6095	6094	6103
66	6192	6274	6029	6150	6145	6158
67	6249	6330	6083	6203	6203	6214
68	6308	6397	6130	6255	6253	6269
69	6361	6461	6181	6315	6318	6327
70	6420	6530	6220	6375	6374	6384
71	6486	6599	6278	6440	6437	6448
72	6560	6673	6336	6496	6506	6514
73	6632	6735	6399	6551	6580	6579
74	6711	6808	6455	6601	6644	6644
75	6789	6868	6528	6661	6717	6713
76	6863	6938	6597	6723	6781	6780
77	6920	7010	6667	6795	6856	6850
78	6981	7083	6739	6875	6919	6919
79	7046	7139	6818	6952	6980	6987
80	7123	7203	6891	7023	7041	7056
81	7201	7265	6969	7099	7110	7129
82	7291	7339	7036	7167	7171	7201
83	7386	7409	7113	7234	7245	7277
84	7485	7486	7186	7303	7316	7355
85	7573	7555	7265	7390	7404	7437
86	7645	7630	7343	7474	7489	7516
87	7680	7701	7435	7562	7583	7592
88	7706	7788	7515	7650	7669	7666
89	7738	7860	7598	7748	7759	7741
90	7743	7923	7674	7836	7837	7803
91	7733	7979	7762	7934	7921	7866
92	7700	8032	7831	8023	7992	7916
93	7517	8057	7884	8104	8056	7924
94	7064	8052	7934	8173	8104	7865
95	6843	8007	7985	8241	8130	7841
96	6906	7951	8020	8308	8169	7871
97	6792	7756	8071	8369	8216	7841
98	1451	7122	8084	8391	8222	6654
99	1575	7007	8052	8392	8192	6644
100	1668	6682	7930	8352	8120	6550

	B	C	D	E	F	G
101	1921	1638	1861	1758	1758	1787
102	1977	1800	1901	1840	1828	1869
103	2026	1899	1977	1840	1930	1934
104	2133	1906	2085	1887	2039	2010
105	2246	1965	2183	1967	2090	2090
106	2350	2061	2229	2069	2120	2166
107	2403	2179	2256	2164	2176	2236
108	2450	2271	2315	2201	2280	2303
109	2511	2307	2425	2228	2414	2377
110	2619	2340	2561	2293	2535	2470
111	2744	2414	2689	2400	2595	2568
112	2873	2527	2762	2536	2652	2670
113	2952	2658	2819	2641	2755	2765
114	3025	2768	2917	2672	2910	2858
115	3128	2817	3072	2699	3072	2958
116	3289	2866	3243	2805	3189	3078
117	3461	2973	3371	2964	3240	3202
118	3595	3136	3429	3130	3319	3322
119	3653	3297	3501	3261	3461	3435
120	3744	3396	3643	3323	3640	3549
121	3898	3427	3824	3410	3778	3667
122	4098	3510	3985	3562	3864	3804
123	4270	3663	4089	3736	3949	3941
124	4379	3855	4175	3884	4096	4078
125	4480	4005	4316	3977	4288	4213
126	4639	4084	4506	4066	4482	4355
127	4825	4172	4705	4214	4624	4508
128	5011	4326	4862	4407	4729	4667
129	5146	4512	4967	4590	4833	4810
130	5257	4693	5073	4720	4976	4944
131	5369	4824	5226	4809	5140	5074
132	5520	4931	5406	4915	5304	5215
133	5682	5054	5581	5055	5421	5359
134	5847	5225	5709	5221	5525	5505
135	5963	5406	5811	5376	5642	5640
136	6074	5582	5932	5497	5801	5777
137	6201	5700	6096	5600	5965	5912
138	6369	5806	6272	5730	6110	6057
139	6532	5936	6425	5898	6208	6200
140	6632	6113	6534	6076	6320	6335
141	6690	6290	6627	6225	6464	6459
142	6758	6395	6708	6334	6622	6563
143	6832	6444	6794	6447	6707	6645
144	6923	6503	6883	6601	6777	6737
145	7002	6574	6954	6721	6829	6816
146	7070	6667	7010	6809	6889	6889
147	7117	6754	7068	6880	6954	6955
148	7176	6824	7133	6934	7036	7021
149	7245	6874	7211	6993	7100	7085
150	7330	6941	7277	7064	7154	7153

	H	I	J	K	L	M
101	1411	1507	1563	1531	1405	1483
102	1504	1622	1675	1642	1519	1592
103	1618	1727	1780	1749	1628	1700
104	1733	1826	1851	1822	1747	1796
105	1832	1897	1904	1877	1827	1867
106	1907	1949	1958	1934	1876	1925
107	1964	2008	2024	2011	1922	1986
108	2026	2072	2097	2093	1977	2053
109	2108	2156	2182	2169	2049	2133
110	2208	2232	2254	2226	2129	2210
111	2315	2295	2326	2295	2200	2286
112	2406	2366	2422	2388	2271	2371
113	2497	2469	2547	2505	2351	2474
114	2607	2593	2670	2616	2456	2588
115	2743	2719	2774	2705	2574	2703
116	2877	2814	2855	2781	2686	2803
117	2978	2901	2952	2883	2765	2896
118	3064	3007	3077	3009	2841	3000
119	3176	3142	3212	3143	2941	3123
120	3315	3282	3319	3242	3062	3244
121	3460	3395	3398	3319	3176	3350
122	3573	3491	3486	3409	3260	3444
123	3675	3610	3604	3541	3337	3553
124	3811	3749	3741	3680	3445	3685
125	3978	3902	3876	3813	3579	3830
126	4150	4036	3990	3918	3715	3962
127	4311	4153	4106	4032	3828	4086
128	4438	4271	4236	4155	3931	4206
129	4562	4407	4370	4285	4037	4332
130	4699	4543	4498	4402	4155	4459
131	4847	4667	4607	4501	4272	4579
132	4985	4775	4701	4587	4377	4685
133	5102	4871	4796	4680	4471	4784
134	5213	4969	4897	4773	4557	4882
135	5323	5087	5003	4877	4650	4988
136	5437	5195	5095	4958	4744	5086
137	5556	5289	5168	5017	4828	5172
138	5664	5365	5225	5064	4879	5239
139	5755	5437	5286	5137	4931	5309
140	5842	5506	5356	5209	4996	5382
141	5938	5575	5431	5281	5071	5459
142	6031	5638	5489	5336	5149	5529
143	6117	5698	5542	5391	5219	5593
144	6184	5750	5604	5455	5280	5655
145	6249	5817	5679	5537	5342	5725
146	6331	5890	5755	5607	5412	5799
147	6422	5972	5826	5668	5487	5875
148	6506	6036	5879	5722	5559	5940
149	6576	6099	5942	5792	5618	6005
150	6641	6162	6011	5865	5677	6071

	N	O	P	Q	R	S
101	1881	1751	1651	1855	1728	1773
102	1981	1847	1762	1917	1777	1857
103	2074	1921	1853	1984	1845	1935
104	2150	1974	1922	2061	1920	2005
105	2219	2049	1980	2160	1999	2081
106	2303	2144	2046	2258	2060	2162
107	2427	2258	2137	2347	2120	2258
108	2561	2355	2242	2426	2204	2358
109	2676	2440	2350	2526	2316	2462
110	2773	2532	2438	2654	2434	2566
111	2869	2658	2524	2796	2538	2677
112	2994	2800	2639	2916	2617	2793
113	3143	2956	2785	3009	2714	2921
114	3284	3055	2931	3101	2837	3042
115	3377	3149	3045	3224	2977	3154
116	3460	3274	3126	3358	3090	3262
117	3577	3415	3230	3484	3174	3376
118	3740	3569	3357	3571	3258	3499
119	3896	3684	3505	3669	3373	3625
120	4029	3778	3627	3802	3503	3748
121	4141	3891	3728	3971	3634	3873
122	4283	4043	3842	4136	3746	4010
123	4449	4224	3999	4263	3858	4159
124	4614	4381	4164	4359	3988	4301
125	4747	4497	4327	4475	4136	4436
126	4856	4613	4434	4595	4272	4554
127	4966	4752	4539	4730	4381	4674
128	5099	4887	4654	4834	4474	4790
129	5234	5020	4789	4916	4566	4905
130	5358	5121	4912	4994	4670	5011
131	5451	5210	5013	5081	4785	5108
132	5539	5296	5088	5170	4877	5194
133	5634	5395	5166	5259	4951	5281
134	5749	5496	5252	5329	5006	5366
135	5853	5580	5349	5393	5075	5450
136	5946	5639	5432	5467	5154	5528
137	6016	5710	5498	5555	5233	5602
138	6097	5789	5560	5636	5287	5674
139	6183	5879	5638	5709	5341	5750
140	6282	5955	5721	5759	5401	5824
141	6366	6014	5806	5821	5479	5897
142	6433	6071	5863	5893	5556	5963
143	6494	6145	5916	5979	5615	6030
144	6580	6225	5982	6050	5657	6099
145	6673	6308	6069	6107	5715	6174
146	6774	6369	6153	6160	5779	6247
147	6845	6428	6225	6236	5852	6317
148	6908	6498	6282	6312	5914	6383
149	6958	6585	6351	6381	5965	6448
150	7012	6666	6428	6434	6018	6512

	T	U	V	W	X	Y
101	2014	1886	1867	1862	1806	1887
102	2078	1943	1941	1913	1893	1954
103	2157	2004	2004	1991	1974	2026
104	2247	2087	2069	2079	2032	2103
105	2346	2179	2152	2160	2087	2185
106	2430	2270	2244	2220	2158	2264
107	2503	2342	2326	2279	2247	2339
108	2588	2415	2393	2356	2335	2417
109	2703	2509	2467	2459	2407	2509
110	2826	2627	2562	2564	2475	2611
111	2936	2747	2676	2653	2559	2714
112	3020	2843	2786	2728	2666	2809
113	3109	2925	2872	2815	2776	2899
114	3220	3024	2949	2921	2870	2997
115	3347	3138	3047	3034	2953	3104
116	3463	3254	3160	3129	3042	3210
117	3566	3352	3271	3212	3144	3309
118	3670	3441	3361	3296	3248	3403
119	3802	3536	3447	3399	3346	3506
120	3946	3658	3544	3514	3430	3618
121	4093	3794	3674	3633	3527	3744
122	4209	3921	3812	3737	3638	3863
123	4314	4016	3933	3837	3761	3972
124	4416	4109	4024	3934	3858	4068
125	4526	4207	4114	4037	3937	4164
126	4638	4314	4208	4130	4004	4259
127	4738	4411	4308	4205	4072	4347
128	4815	4496	4393	4262	4145	4422
129	4895	4562	4462	4329	4216	4493
130	4978	4630	4519	4402	4278	4561
131	5060	4702	4585	4479	4331	4631
132	5141	4781	4657	4542	4391	4702
133	5219	4848	4733	4597	4465	4772
134	5288	4912	4799	4653	4538	4838
135	5364	4975	4859	4725	4605	4906
136	5443	5049	4921	4803	4663	4976
137	5527	5123	4997	4874	4723	5049
138	5595	5197	5073	4933	4789	5117
139	5659	5254	5143	4996	4859	5182
140	5728	5321	5200	5062	4922	5247
141	5810	5388	5264	5139	4983	5317
142	5885	5469	5333	5208	5038	5387
143	5954	5543	5412	5272	5102	5457
144	6012	5611	5480	5332	5170	5521
145	6082	5668	5545	5401	5235	5586
146	6157	5734	5606	5469	5298	5653
147	6240	5799	5672	5536	5358	5721
148	6312	5870	5736	5596	5418	5786
149	6382	5928	5800	5652	5483	5849
150	6448	5988	5857	5712	5546	5910

	Z	AA	AB	AC	AD	AE
101	1724	1479	7421	8140	7918	5336
102	1806	1572	7120	7430	7354	5056
103	1913	1626	7214	7305	7397	5091
104	2024	1703	5600	7330	7387	4809
105	2100	1811	1491	1826	1497	1745
106	2159	1911	1587	1471	1428	1711
107	2239	1988	1647	1527	1500	1780
108	2358	2047	1737	1613	1542	1859
109	2477	2126	1841	1728	1626	1960
110	2579	2221	1938	1847	1739	2065
111	2669	2323	1997	1934	1852	2155
112	2766	2411	2049	1990	1922	2228
113	2877	2499	2111	2059	1966	2302
114	3001	2589	2200	2147	2031	2394
115	3121	2696	2298	2235	2123	2495
116	3229	2808	2395	2315	2221	2594
117	3333	2918	2484	2389	2306	2686
118	3462	3016	2588	2474	2386	2785
119	3604	3115	2701	2575	2479	2895
120	3749	3228	2817	2687	2585	3013
121	3868	3359	2917	2786	2704	3127
122	3987	3486	3012	2872	2808	3233
123	4118	3595	3104	2953	2897	3333
124	4259	3702	3221	3051	2979	3442
125	4384	3839	3347	3161	3077	3562
126	4487	3982	3476	3280	3187	3682
127	4581	4109	3576	3381	3294	3788
128	4693	4206	3682	3481	3382	3889
129	4796	4299	3803	3599	3471	3994
130	4874	4402	3941	3737	3577	4106
131	4948	4509	4059	3872	3710	4220
132	5018	4589	4153	3974	3831	4313
133	5095	4655	4242	4068	3928	4398
134	5180	4721	4347	4171	4010	4486
135	5261	4788	4446	4274	4109	4576
136	5340	4857	4528	4365	4199	4658
137	5409	4931	4588	4428	4276	4726
138	5484	5000	4656	4492	4338	4794
139	5570	5068	4720	4562	4401	4864
140	5659	5129	4797	4635	4469	4938
141	5741	5203	4866	4699	4539	5010
142	5812	5275	4930	4764	4605	5077
143	5880	5344	4985	4822	4668	5140
144	5962	5400	5055	4885	4721	5205
145	6044	5465	5128	4956	4785	5276
146	6116	5537	5213	5035	4855	5351
147	6173	5618	5279	5104	4936	5422
148	6239	5683	5341	5163	5001	5485
149	6312	5739	5405	5224	5061	5548
150	6392	5801	5490	5297	5120	5620

	B	C	D	E	F	G
151	7399	7018	7329	7140	7201	7217
152	7464	7111	7373	7208	7261	7283
153	7518	7184	7433	7256	7328	7344
154	7588	7248	7503	7304	7407	7410
155	7656	7306	7579	7365	7471	7475
156	7734	7381	7637	7431	7534	7543
157	7790	7460	7689	7505	7593	7607
158	7845	7541	7740	7570	7667	7673
159	7900	7602	7804	7627	7742	7735
160	7967	7661	7869	7687	7820	7801
161	8099	7718	7935	7752	7882	7877
162	8296	7789	7988	7823	7944	7968
163	8454	7861	8094	7887	8003	8060
164	8618	7927	8268	7944	8146	8181
165	8793	8000	8464	7996	8348	8320
166	8993	8161	8661	8109	8533	8491
167	9179	8349	8835	8318	8692	8675
168	9354	8553	8982	8521	8871	8856
169	9505	8746	9142	8696	9056	9029
170	9678	8923	9319	8858	9263	9208
171	9856	9080	9510	9031	9453	9386
172	10049	9251	9698	9222	9638	9572
173	10228	9431	9868	9428	9800	9751
174	10404	9626	10025	9620	9982	9931
175	10569	9808	10195	9794	10174	10108
176	10752	9982	10382	9961	10381	10292
177	10936	10146	10576	10142	10563	10473
178	11137	10319	10761	10338	10739	10659
179	11318	10507	10929	10541	10907	10840
180	11493	10704	11089	10728	11098	11022
181	11663	10880	11267	10898	11293	11200
182	11853	11047	11461	11069	11498	11386
183	12042	11214	11655	11257	11672	11568
184	12241	11404	11832	11460	11848	11757
185	12417	11601	12000	11656	12024	11940
186	12596	11798	12177	11834	12223	12126
187	12775	11976	12366	12007	12417	12308
188	12974	12153	12559	12189	12614	12498
189	13166	12331	12751	12384	12787	12684
190	13361	12529	12930	12583	12974	12875
191	13536	12723	13108	12777	13160	13061
192	13725	12916	13292	12956	13365	13251
193	13908	13095	13487	13140	13559	13438
194	14109	13280	13681	13328	13755	13631
195	14294	13466	13870	13530	13934	13819
196	14487	13669	14049	13731	14125	14012
197	14660	13863	14231	13922	14316	14198
198	14849	14057	14422	14103	14531	14392
199	15030	14241	14621	14290	14729	14582
200	15225	14429	14818	14486	14931	14778

	H	I	J	K	L	M
151	6716	6237	6084	5944	5744	6145
152	6797	6311	6147	6004	5818	6215
153	6882	6374	6204	6065	5884	6282
154	6955	6432	6259	6123	5942	6342
155	7020	6500	6324	6192	5998	6407
156	7070	6569	6388	6257	6061	6469
157	7120	6640	6452	6324	6126	6532
158	7171	6705	6508	6378	6196	6592
159	7226	6764	6571	6441	6259	6652
160	7276	6823	6627	6495	6319	6708
161	7324	6885	6689	6560	6378	6767
162	7364	6948	6747	6620	6441	6824
163	7405	7001	6814	6680	6503	6881
164	7448	7047	6877	6732	6567	6934
165	7491	7091	6934	6788	6623	6985
166	7529	7130	6972	6838	6677	7029
167	7566	7170	7015	6900	6729	7076
168	7607	7214	7057	6953	6786	7123
169	7650	7255	7097	6996	6844	7168
170	7692	7286	7128	7026	6902	7207
171	7732	7319	7160	7066	6950	7245
172	7773	7353	7191	7101	6990	7282
173	7818	7390	7224	7145	7026	7321
174	7864	7425	7253	7178	7070	7358
175	7909	7461	7285	7212	7113	7396
176	7953	7494	7315	7244	7155	7432
177	7994	7533	7353	7284	7196	7472
178	8031	7571	7387	7321	7242	7510
179	8068	7610	7421	7362	7284	7549
180	8105	7642	7454	7395	7328	7585
181	8147	7677	7492	7436	7367	7624
182	8186	7714	7525	7478	7404	7661
183	8226	7757	7563	7520	7441	7701
184	8266	7796	7601	7559	7479	7740
185	8308	7835	7643	7603	7517	7781
186	8351	7866	7679	7640	7557	7819
187	8392	7903	7718	7684	7595	7858
188	8426	7938	7756	7725	7636	7896
189	8460	7974	7799	7771	7671	7935
190	8496	8007	7837	7808	7709	7971
191	8535	8041	7879	7850	7747	8010
192	8615	8076	7922	7891	7787	8058
193	8734	8119	7967	7942	7827	8118
194	8843	8163	8011	7987	7870	8175
195	8950	8207	8056	8038	7915	8233
196	9052	8246	8099	8081	7961	8288
197	9148	8284	8147	8129	8004	8342
198	9233	8320	8193	8173	8044	8393
199	9320	8384	8241	8228	8083	8451
200	9405	8508	8286	8276	8128	8521

	N	O	P	Q	R	S
151	7065	6739	6515	6485	6082	6577
152	7120	6798	6587	6540	6146	6638
153	7158	6866	6645	6609	6215	6699
154	7204	6935	6701	6670	6267	6755
155	7250	7006	6769	6728	6323	6815
156	7299	7050	6823	6771	6378	6864
157	7342	7091	6872	6817	6443	6913
158	7382	7123	6912	6853	6501	6954
159	7418	7157	6957	6899	6558	6998
160	7458	7192	6993	6942	6599	7037
161	7496	7236	7040	6984	6646	7080
162	7537	7273	7086	7015	6695	7121
163	7573	7312	7133	7054	6755	7165
164	7610	7344	7165	7098	6802	7204
165	7645	7385	7202	7144	6848	7245
166	7687	7425	7237	7181	6883	7283
167	7726	7469	7282	7217	6919	7323
168	7767	7507	7323	7250	6957	7361
169	7805	7545	7360	7292	7000	7400
170	7846	7582	7390	7330	7039	7437
171	7886	7621	7426	7370	7075	7476
172	7926	7658	7461	7401	7111	7511
173	7970	7697	7500	7443	7156	7553
174	8018	7731	7534	7480	7200	7593
175	8062	7771	7569	7521	7244	7633
176	8107	7809	7600	7556	7281	7671
177	8150	7850	7640	7595	7320	7711
178	8201	7884	7673	7628	7357	7749
179	8248	7917	7713	7665	7395	7788
180	8299	7947	7742	7701	7434	7825
181	8356	7983	7774	7744	7473	7866
182	8491	8018	7809	7780	7507	7921
183	8621	8060	7847	7822	7545	7979
184	8738	8096	7883	7861	7584	8032
185	8837	8135	7924	7905	7626	8085
186	8937	8164	7959	7946	7661	8133
187	9028	8208	8000	7990	7697	8185
188	9120	8253	8040	8027	7735	8235
189	9200	8290	8085	8070	7774	8284
190	9285	8347	8122	8109	7815	8336
191	9358	8477	8167	8156	7860	8404
192	9434	8598	8208	8199	7901	8468
193	9513	8716	8256	8244	7942	8534
194	9601	8813	8298	8285	7982	8596
195	9672	8906	8354	8328	8028	8658
196	9751	8988	8445	8371	8071	8725
197	9834	9079	8562	8464	8119	8812
198	9930	9165	8667	8579	8161	8900
199	10025	9246	8771	8682	8210	8987
200	10124	9315	8857	8772	8253	9064

	T	U	V	W	X	Y
151	6519	6053	5916	5778	5607	5975
152	6591	6126	5979	5840	5660	6039
153	6663	6197	6052	5902	5718	6106
154	6726	6270	6122	5954	5772	6169
155	6789	6332	6193	6017	5831	6232
156	6829	6396	6254	6080	5884	6289
157	6870	6458	6322	6148	5938	6347
158	6913	6525	6385	6215	5983	6404
159	6959	6590	6455	6275	6032	6462
160	6999	6648	6516	6325	6087	6515
161	7038	6698	6576	6381	6142	6567
162	7075	6755	6627	6437	6190	6617
163	7118	6797	6686	6495	6234	6666
164	7155	6843	6741	6546	6281	6713
165	7192	6883	6803	6595	6332	6761
166	7225	6921	6848	6641	6383	6804
167	7266	6960	6879	6696	6434	6847
168	7303	7005	6913	6751	6479	6890
169	7342	7045	6954	6807	6532	6936
170	7376	7088	6992	6858	6585	6980
171	7413	7122	7032	6906	6642	7023
172	7450	7159	7065	6940	6694	7062
173	7492	7193	7103	6980	6747	7103
174	7529	7234	7137	7011	6799	7142
175	7573	7267	7175	7045	6857	7183
176	7607	7305	7209	7076	6915	7222
177	7641	7338	7247	7112	6975	7263
178	7673	7378	7282	7145	7016	7299
179	7715	7414	7320	7181	7053	7337
180	7752	7452	7355	7216	7085	7372
181	7791	7486	7396	7255	7119	7409
182	7828	7523	7433	7287	7155	7445
183	7872	7556	7469	7325	7192	7483
184	7911	7592	7502	7363	7224	7518
185	7954	7625	7543	7401	7260	7557
186	7995	7663	7580	7434	7293	7593
187	8042	7698	7620	7469	7331	7632
188	8085	7736	7657	7505	7368	7670
189	8135	7769	7697	7545	7406	7710
190	8178	7812	7735	7579	7441	7749
191	8217	7850	7777	7615	7478	7787
192	8255	7890	7818	7650	7515	7826
193	8347	7927	7859	7691	7551	7875
194	8467	7971	7898	7728	7587	7930
195	8581	8012	7935	7772	7626	7985
196	8677	8053	7973	7812	7665	8036
197	8772	8091	8014	7854	7708	8088
198	8858	8135	8053	7896	7749	8138
199	8946	8173	8099	7940	7795	8191
200	9031	8242	8140	7983	7838	8247

	Z	AA	AB	AC	AD	AE
151	6450	5879	5566	5373	5198	5693
152	6505	5954	5633	5442	5276	5762
153	6570	6023	5685	5497	5351	5825
154	6646	6083	5757	5557	5407	5890
155	6716	6151	5837	5629	5476	5962
156	6778	6224	5915	5708	5553	6036
157	6835	6301	5973	5772	5635	6103
158	6900	6364	6034	5830	5701	6166
159	6950	6427	6102	5894	5763	6227
160	7001	6487	6181	5973	5828	6294
161	7047	6556	6244	6047	5905	6360
162	7091	6619	6306	6111	5979	6421
163	7130	6681	6363	6170	6046	6478
164	7178	6740	6430	6240	6106	6539
165	7227	6804	6493	6309	6177	6602
166	7274	6866	6562	6379	6245	6665
167	7318	6931	6621	6443	6316	6726
168	7361	6991	6682	6507	6379	6784
169	7405	7048	6738	6569	6442	6840
170	7447	7098	6804	6634	6504	6897
171	7482	7147	6871	6700	6568	6954
172	7518	7195	6945	6769	6632	7012
173	7552	7243	7005	6830	6700	7066
174	7593	7285	7071	6888	6761	7120
175	7629	7332	7137	6953	6825	7175
176	7672	7374	7203	7026	6895	7234
177	7710	7418	7249	7091	6970	7288
178	7753	7457	7292	7153	7039	7339
179	7796	7497	7333	7214	7101	7388
180	7840	7533	7379	7277	7158	7437
181	7882	7573	7417	7329	7223	7485
182	7927	7610	7458	7380	7273	7530
183	7971	7649	7494	7425	7319	7572
184	8017	7684	7535	7469	7357	7612
185	8061	7723	7574	7510	7399	7653
186	8107	7759	7615	7552	7438	7694
187	8150	7802	7648	7590	7480	7734
188	8195	7837	7687	7630	7516	7773
189	8238	7878	7724	7668	7557	7813
190	8283	7919	7763	7709	7592	7853
191	8326	7965	7798	7747	7631	7893
192	8375	8005	7837	7783	7664	7933
193	8420	8054	7872	7816	7703	7973
194	8470	8096	7917	7857	7740	8016
195	8544	8142	7958	7893	7781	8064
196	8663	8185	8005	7931	7817	8120
197	8769	8235	8048	7968	7861	8176
198	8869	8280	8095	8010	7903	8231
199	8963	8329	8137	8052	7947	8286
200	9055	8373	8186	8101	7990	8341

	B	C	D	E	F	G
201	15405	14621	15006	14692	15118	14968
202	15589	14824	15188	14887	15322	15162
203	15761	15019	15375	15079	15524	15352
204	15948	15215	15568	15261	15737	15546
205	16128	15400	15765	15453	15929	15735
206	16321	15593	15956	15655	16127	15930
207	16499	15791	16138	15858	16317	16121
208	16679	15996	16320	16049	16521	16313
209	16850	16183	16508	16237	16717	16499
210	17036	16373	16702	16426	16925	16692
211	17211	16559	16896	16624	17112	16880
212	17399	16753	17085	16819	17307	17073
213	17569	16944	17266	17015	17490	17257
214	17749	17139	17453	17199	17690	17446
215		17322	17639	17389		
216		17509	17830	17572		
217		17690		17764		
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	H	I	J	K	L	M
201	9496	8629	8392	8329	8172	8604
202	9577	8735	8510	8372	8220	8683
203	9658	8832	8623	8464	8262	8768
204	9733	8925	8727	8587	8304	8855
205	9816	9016	8820	8699	8348	8940
206	9896	9100	8897	8787	8422	9020
207	9975	9181	8976	8879	8538	9110
208	10049	9253	9047	8952	8647	9190
209	10124	9329	9120	9031	8739	9269
210	10196	9406	9183	9094	8826	9341
211	10269	9477	9249	9161	8901	9411
212	10338	9547	9306	9222	8971	9477
213	10407	9617	9369	9288	9032	9543
214	10471	9684	9427	9349	9099	9606
215	10537	9752	9493	9423	9160	9673
216	10595	9819	9556	9484	9225	9736
217	10660	9888	9627	9556	9283	9803
218	10722	9958	9692	9620	9342	9867
219	10788	10026	9765	9690	9401	9934
220	10851	10099	9835	9756	9463	10001
221	10923	10175	9914	9832	9519	10073
222	10995	10257	9990	9902	9589	10147
223	11083	10346	10080	9989	9665	10233
224	11173	10437	10169	10079	9746	10321
225	11270	10530	10264	10179	9833	10415
226	11369	10630	10358	10275	9931	10513
227	11476	10732	10459	10381	10033	10616
228	11584	10831	10554	10475	10140	10717
229	11699	10935	10655	10582	10241	10822
230	11810	11041	10751	10679	10350	10926
231	11926	11145	10860	10786	10457	11035
232	12038	11248	10960	10887	10571	11141
233	12156	11351	11062	10993	10679	11248
234	12268	11454	11163	11095	10793	11355
235	12386	11562	11271	11206	10901	11465
236	12499	11667	11374	11307	11011	11572
237	12618	11775	11483	11417	11118	11682
238	12732	11883	11584	11518	11228	11789
239	12848	11993	11693	11628	11336	11900
240	12964	12103	11797	11731	11445	12008
241	13082	12212	11908	11844	11547	12119
242	13195	12319	12015	11948	11658	12227
243	13311	12432	12132	12062	11764	12340
244	13427	12541	12239	12167	11875	12450
245	13543	12658	12357	12281	11983	12564
246	13658	12771	12474	12387	12093	12677
247	13772	12888	12595	12500	12201	12791
248	13884	13003	12716	12607	12312	12904
249	14002	13121	12840	12724	12420	13021
250	14113	13234	12962	12831	12536	13135

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201	10213	9390	8939	8866	8297	9141
202	10314	9464	9015	8947	8339	9216
203	10415	9550	9097	9029	8383	9295
204	10530	9631	9175	9095	8425	9371
205	10635	9719	9257	9166	8479	9451
206	10742	9804	9331	9235	8584	9539
207	10844	9908	9405	9309	8697	9633
208	10957	10008	9478	9374	8791	9722
209	11065	10111	9556	9441	8880	9811
210	11181	10214	9629	9504	8959	9897
211	11282	10327	9704	9576	9042	9986
212	11389	10429	9778	9645	9115	10071
213	11495	10542	9859	9718	9191	10161
214	11612	10657	9938	9786	9256	10250
215	11723	10773	10030	9858	9324	10342
216	11835	10881	10119	9924	9388	10429
217	11945	10998	10216	9999	9454	10522
218	12061	11115	10311	10071	9516	10615
219	12175	11239	10414	10150	9585	10713
220	12298	11360	10515	10225	9651	10810
221	12416	11486	10626	10319	9724	10914
222	12538	11603	10734	10417	9792	11017
223	12654	11733	10847	10524	9863	11124
224	12784	11857	10956	10625	9928	11230
225	12908	11988	11077	10734	10000	11341
226	13037	12111	11196	10838	10075	11451
227	13158	12237	11314	10952	10161	11564
228	13284	12355	11427	11061	10245	11674
229	13407	12483	11542	11178	10336	11789
230	13543	12604	11656	11287	10429	11904
231	13664	12732	11774	11403	10528	12020
232	13792	12849	11888	11512	10631	12134
233	13915	12971	12003	11635	10743	12253
234	14045	13086	12119	11747	10848	12369
235	14171	13212	12239	11864	10960	12489
236	14301	13330	12353	11974	11068	12605
237	14421	13458	12476	12092	11184	12726
238	14546	13576	12590	12200	11295	12841
239	14664	13698	12710	12317	11413	12960
240	14790	13812	12824	12427	11523	13075
241	14908	13939	12946	12543	11642	13196
242	15032	14053	13065	12652	11751	13311
243	15150	14173	13185	12764	11870	13428
244	15275	14281	13299	12871	11982	13542
245	15390	14405	13421	12987	12101	13661
246	15512	14520	13534	13093	12212	13774
247	15631	14641	13653	13209	12330	13893
248	15756	14751	13765	13319	12440	14006
249	15870	14871	13881	13439	12560	14124
250	15992	14982	13994	13554	12672	14239

	T	U	V	W	X	Y
201	9117	8367	8194	8026	7884	8318
202	9194	8485	8306	8066	7928	8396
203	9280	8587	8424	8110	7976	8475
204	9361	8686	8527	8154	8024	8550
205	9444	8773	8626	8260	8070	8635
206	9520	8861	8713	8375	8117	8717
207	9602	8940	8798	8477	8165	8796
208	9676	9020	8876	8566	8208	8869
209	9753	9093	8950	8649	8300	8949
210	9826	9172	9020	8723	8407	9030
211	9903	9241	9091	8793	8500	9106
212	9974	9313	9153	8851	8581	9174
213	10046	9375	9219	8904	8656	9240
214	10110	9439	9280	8948	8718	9299
215	10182	9498	9338	8996	8778	9358
216	10243	9561	9397	9047	8826	9415
217	10312	9620	9458	9107	8868	9473
218	10374	9686	9518	9171	8905	9531
219	10442	9743	9584	9235	8963	9593
220	10510	9805	9643	9299	9037	9659
221	10586	9863	9707	9361	9127	9729
222	10657	9926	9766	9422	9224	9799
223	10736	9981	9833	9496	9328	9875
224	10814	10050	9901	9579	9433	9955
225	10900	10115	9980	9675	9538	10042
226	10984	10200	10067	9774	9644	10134
227	11080	10287	10164	9879	9753	10233
228	11171	10383	10264	9980	9867	10333
229	11270	10479	10370	10089	9975	10437
230	11368	10584	10477	10198	10084	10542
231	11475	10686	10583	10308	10195	10649
232	11576	10795	10689	10418	10306	10757
233	11684	10901	10799	10527	10417	10866
234	11781	11014	10905	10635	10524	10972
235	11891	11121	11013	10745	10636	11081
236	11988	11231	11124	10856	10747	11189
237	12095	11338	11233	10968	10859	11299
238	12196	11454	11343	11079	10971	11409
239	12303	11558	11458	11190	11085	11519
240	12408	11671	11568	11302	11199	11630
241	12520	11777	11680	11415	11310	11740
242	12629	11888	11787	11525	11420	11850
243	12745	11996	11899	11639	11530	11962
244	12853	12111	12009	11746	11641	12072
245	12966	12217	12123	11858	11752	12183
246	13073	12330	12233	11971	11862	12294
247	13188	12438	12342	12082	11975	12405
248	13294	12554	12455	12195	12086	12517
249	13408	12665	12567	12308	12196	12629
250	13515	12778	12681	12421	12310	12741

	Z	AA	AB	AC	AD	AE
201	9137	8423	8230	8146	8040	8395
202	9212	8468	8275	8192	8086	8447
203	9283	8526	8316	8243	8135	8501
204	9357	8624	8364	8294	8180	8564
205	9430	8735	8408	8338	8231	8628
206	9497	8834	8454	8387	8276	8690
207	9562	8931	8495	8429	8324	8748
208	9632	9010	8545	8477	8370	8807
209	9699	9090	8587	8521	8420	8863
210	9768	9164	8640	8566	8470	8922
211	9833	9239	8724	8611	8522	8986
212	9897	9308	8834	8658	8568	9053
213	9961	9379	8925	8738	8611	9123
214	10025	9443	9016	8846	8652	9196
215	10091	9508	9091	8936	8702	9266
216	10162	9566	9170	9018	8765	9336
217	10232	9630	9234	9091	8859	9409
218	10301	9692	9301	9159	8938	9478
219	10371	9757	9356	9214	9008	9541
220	10444	9818	9412	9273	9072	9604
221	10519	9884	9464	9321	9134	9664
222	10600	9947	9529	9376	9183	9727
223	10680	10028	9591	9424	9239	9792
224	10771	10104	9659	9477	9291	9860
225	10867	10186	9720	9525	9344	9928
226	10966	10271	9794	9585	9395	10002
227	11063	10370	9864	9643	9454	10079
228	11164	10466	9949	9709	9514	10160
229	11266	10568	10028	9779	9588	10246
230	11373	10666	10124	9861	9664	10338
231	11476	10770	10220	9945	9755	10433
232	11582	10871	10327	10042	9855	10535
233	11687	10974	10422	10137	9961	10636
234	11796	11074	10529	10238	10065	10740
235	11903	11183	10633	10339	10174	10846
236	12014	11285	10743	10449	10279	10954
237	12124	11393	10845	10557	10391	11062
238	12239	11498	10955	10669	10501	11172
239	12351	11611	11055	10775	10611	11281
240	12466	11718	11169	10891	10716	11392
241	12578	11828	11272	10998	10827	11501
242	12696	11933	11385	11111	10936	11612
243	12809	12049	11487	11220	11045	11722
244	12927	12158	11601	11332	11151	11834
245	13043	12275	11705	11438	11267	11946
246	13161	12388	11818	11552	11375	12059
247	13276	12510	11925	11661	11487	12172
248	13394	12626	12040	11774	11594	12286
249	13511	12750	12144	11885	11711	12400
250	13633	12870	12259	11995	11819	12515

	H	I	J	K	L	M
251	14229	13349	13090	12951	12645	13253
252	14342	13462	13208	13064	12756	13366
253	14461	13575	13338	13186	12868	13486
254	14574	13697	13461	13296	12989	13603
255	14695	13812	13589	13417	13102	13723
256	14806	13927	13713	13527	13219	13838
257	14925	14047	13845	13651	13330	13960
258	15038	14172	13970	13761	13447	14078
259	15157	14294	14101	13879	13558	14198
260	15272	14420	14222	13993	13674	14316
261	15388	14542	14354	14117	13782	14437
262	15497	14670	14481	14235	13903	14557
263	15614	14799	14610	14364	14019	14681
264	15724	14928	14733	14488	14141	14803
265	15838	15059	14866	14617	14258	14928
266	15949	15186	14988	14740	14381	15049
267	16062	15313	15120	14871	14502	15174
268	16173	15446	15245	14993	14627	15297
269	16289	15574	15379	15123	14747	15422
270	16398	15705	15507	15246	14877	15547
271	16516	15832	15639	15382	15003	15674
272	16628	15959	15764	15507	15133	15798
273	16744	16089	15899	15640	15258	15926
274	16857	16220	16026	15765	15390	16052
275	16978	16350	16161	15897	15516	16180
276	17091	16481	16291	16020	15644	16305
277	17211	16612	16425	16152	15769	16434
278	17326	16743	16552	16273	15898	16558
279	17449	16873	16688	16411	16026	16689
280	17571	17005	16816	16542	16154	16818
281	17699	17135	16949	16678	16278	16948
282	17822	17266	17078	16805	16413	17077
283	17949	17398	17212	16945	16552	17211
284	18071	17526	17342	17075	16702	17343
285	18199	17656	17483	17217	16850	17481
286	18323	17790	17612	17348	17011	17617
287	18454	17922	17751	17493	17163	17757
288	18578	18056	17882	17630	17318	17893
289	18709	18191	18027	17785	17468	18036
290	18834	18333	18168	17933	17624	18178
291	18967	18472	18323	18097	17769	18326
292	19095	18615	18472	18246	17922	18470
293	19226	18756	18628	18407	18066	18617
294	19353	18896	18777	18555	18220	18760
295	19488	19044	18932	18717	18366	18909
296	19616	19196	19080	18868	18516	19055
297	19751	19352	19237	19025	18660	19205
298	19880	19508	19385	19172	18815	19352
299	20014	19662	19541	19332	18961	19502
300	20145	19815	19688	19482	19116	19649

	N	O	P	Q	R	S
251	16105	15101	14112	13676	12786	14356
252	16230	15215	14226	13790	12897	14472
253	16343	15334	14342	13911	13018	14590
254	16465	15443	14454	14026	13129	14703
255	16575	15563	14566	14147	13248	14820
256	16693	15678	14677	14258	13358	14933
257	16806	15802	14796	14377	13476	15051
258	16926	15913	14911	14489	13585	15165
259	17039	16031	15028	14609	13701	15282
260	17153	16147	15141	14725	13811	15395
261	17262	16267	15258	14846	13927	15512
262	17383	16381	15374	14959	14034	15626
263	17503	16512	15494	15079	14156	15749
264	17628	16620	15612	15191	14270	15864
265	17745	16749	15732	15312	14393	15986
266	17871	16862	15846	15427	14507	16103
267	17992	16982	15967	15551	14630	16224
268	18118	17094	16084	15663	14745	16341
269	18239	17217	16206	15786	14866	16463
270	18367	17332	16323	15903	14982	16581
271	18487	17453	16445	16027	15106	16704
272	18615	17567	16560	16144	15222	16822
273	18734	17693	16682	16267	15344	16944
274	18860	17811	16802	16385	15458	17063
275	18975	17939	16924	16508	15586	17186
276	19101	18055	17039	16624	15703	17304
277	19218	18187	17162	16749	15824	17428
278	19346	18311	17282	16872	15942	17551
279	19464	18439	17407	16997	16066	17675
280	19591	18556	17528	17116	16186	17795
281	19710	18683	17658	17246	16317	17923
282	19838	18802	17780	17375	16443	18048
283	19958	18932	17909	17502	16574	18175
284	20083	19052	18034	17625	16692	18297
285	20200	19180	18164	17768	16820	18426
286	20330	19299	18286	17887	16940	18548
287	20446	19426	18414	18023	17070	18676
288	20574	19549	18538	18162	17191	18803
289	20693	19683	18670	18299	17322	18933
290	20818	19811	18799	18432	17444	19061
291	20937	19942	18928	18585	17578	19194
292	21065	20066	19057	18736	17704	19326
293	21185	20203	19196	18901	17837	19464
294	21310	20327	19325	19052	17968	19596
295	21423	20474	19465	19210	18108	19736
296	21546	20604	19604	19362	18241	19871
297	21668	20745	19747	19517	18393	20014
298	21798	20882	19881	19667	18534	20152
299	21917	21026	20021	19826	18673	20293
300	22050	21158	20165	19974	18807	20431

	T	U	V	W	X	Y
251	13629	12884	12790	12538	12424	12853
252	13738	13001	12900	12652	12539	12966
253	13852	13112	13010	12766	12653	13079
254	13963	13232	13121	12882	12772	13194
255	14077	13344	13237	13000	12890	13310
256	14187	13463	13347	13119	13012	13426
257	14304	13576	13462	13244	13135	13544
258	14415	13698	13576	13364	13260	13663
259	14532	13815	13696	13488	13388	13784
260	14647	13940	13812	13612	13513	13905
261	14768	14056	13929	13738	13636	14025
262	14883	14180	14048	13871	13761	14149
263	15006	14299	14169	14009	13885	14274
264	15123	14427	14293	14130	14020	14399
265	15248	14548	14431	14256	14144	14525
266	15368	14676	14555	14381	14271	14650
267	15496	14797	14682	14506	14394	14775
268	15618	14927	14810	14632	14520	14901
269	15756	15052	14940	14758	14643	15030
270	15879	15184	15069	14885	14768	15157
271	16007	15314	15195	15012	14892	15284
272	16126	15447	15321	15133	15019	15409
273	16249	15569	15449	15260	15153	15536
274	16368	15706	15572	15387	15291	15665
275	16493	15832	15701	15519	15418	15793
276	16609	15967	15825	15650	15560	15922
277	16737	16093	15958	15784	15711	16057
278	16857	16226	16084	15923	15866	16191
279	16985	16355	16218	16060	16016	16327
280	17111	16491	16360	16196	16163	16464
281	17248	16618	16493	16344	16309	16602
282	17382	16766	16624	16497	16458	16745
283	17520	16918	16760	16651	16602	16890
284	17651	17080	16900	16801	16744	17035
285	17800	17232	17041	16948	16884	17181
286	17940	17384	17177	17099	17027	17325
287	18085	17532	17317	17244	17168	17469
288	18220	17687	17464	17389	17311	17614
289	18364	17835	17619	17536	17454	17762
290	18500	17989	17771	17686	17603	17910
291	18644	18138	17923	17833	17749	18057
292	18783	18297	18077	17979	17894	18206
293	18927	18448	18231	18125	18036	18353
294	19065	18602	18387	18273	18182	18502
295	19211	18748	18541	18421	18329	18650
296	19351	18904	18693	18573	18481	18800
297	19500	19053	18845	18721	18629	18950
298	19645	19205	19000	18871	18778	19100
299	19805	19353	19154	19019	18921	19250
300	19956	19507	19308	19172	19070	19403

	Z	AA	AB	AC	AD	AE
251	13753	13000	12367	12104	11931	12631
252	13871	13125	12487	12220	12041	12749
253	13990	13258	12598	12333	12162	12868
254	14111	13383	12719	12451	12273	12987
255	14233	13515	12835	12566	12392	13108
256	14355	13644	12967	12692	12508	13233
257	14477	13779	13090	12817	12632	13359
258	14603	13909	13227	12946	12750	13487
259	14731	14046	13356	13067	12875	13615
260	14859	14174	13498	13198	12997	13745
261	14983	14304	13620	13320	13124	13870
262	15106	14433	13754	13450	13247	13998
263	15227	14565	13880	13576	13375	14125
264	15348	14698	14018	13711	13502	14255
265	15469	14835	14147	13838	13636	14385
266	15589	14969	14286	13974	13763	14516
267	15713	15107	14415	14102	13897	14647
268	15834	15240	14551	14240	14024	14778
269	15958	15379	14680	14371	14156	14909
270	16082	15514	14821	14509	14282	15042
271	16205	15650	14952	14641	14417	15173
272	16330	15784	15090	14785	14544	15307
273	16457	15919	15219	14917	14675	15437
274	16584	16058	15361	15057	14807	15573
275	16715	16203	15491	15186	14943	15708
276	16844	16341	15628	15320	15067	15840
277	16982	16480	15767	15447	15203	15976
278	17114	16619	15918	15585	15330	16113
279	17247	16769	16064	15732	15468	16256
280	17379	16917	16218	15893	15622	16406
281	17516	17066	16364	16045	15782	16555
282	17675	17214	16523	16207	15937	16711
283	17835	17366	16667	16358	16094	16864
284	17995	17513	16820	16517	16244	17018
285	18154	17669	16960	16668	16398	17170
286	18311	17821	17108	16825	16546	17322
287	18463	17974	17244	16974	16696	17470
288	18614	18126	17391	17130	16837	17620
289	18760	18281	17534	17276	16984	17767
290	18903	18436	17689	17430	17124	17916
291	19048	18594	17831	17573	17267	18063
292	19194	18746	17986	17724	17404	18211
293	19344	18900	18132	17868	17547	18358
294	19498	19050	18290	18018	17688	18509
295	19653	19202	18435	18159	17835	18657
296	19804	19354	18593	18311	17978	18808
297	19959	19512	18734	18456	18124	18957
298	20115	19664	18887	18609	18266	19108
299	20267	19819	19030	18753	18412	19256
300	20420	19966	19184	18901	18556	19405

	H	I	J	K	L	M
301	20282	19966	19845	19641	19262	19799
302	20412	20122	19991	19787	19421	19947
303	20549	20272	20146	19943	19572	20096
304	20680	20424	20293	20091	19730	20244
305	20819	20573	20447	20250	19877	20393
306	20949	20726	20594	20396	20034	20540
307	21089	20880	20753	20556	20181	20692
308	21221	21035	20901	20701	20339	20839
309	21361	21189	21057	20861	20488	20991
310	21492	21345	21203	21009	20642	21138
311	21632	21499	21360	21166	20787	21289
312	21763	21661	21510	21315	20943	21438
313	21904	21816	21670	21475	21090	21591
314	22035	21972	21822	21623	21247	21740
315	22173	22125	21980	21783	21398	21892
316	22310	22278	22129	21930	21549	22039
317	22456	22431	22292	22090	21696	22193
318	22596	22589	22440	22237	21853	22343
319	22747	22741	22597	22397	22000	22496
320	22890	22895	22745	22545	22156	22646
321	23045	23049	22905	22705	22302	22801
322	23179	23204	23058	22854	22459	22951
323	23326	23356	23217	23015	22608	23104
324			23361	23163	22765	
325				23324	22914	
326					23073	
327					23225	
328					23385	
329						
330						
331						
332						
333						

	N	O	P	Q	R	S
301	22182	21301	20322	20132	18952	20578
302	22323	21438	20472	20277	19092	20720
303	22448	21586	20624	20434	19239	20866
304	22583	21732	20774	20582	19376	21009
305	22717	21887	20925	20736	19528	21159
306	22856	22033	21073	20887	19673	21304
307	22981	22193	21224	21045	19835	21456
308	23115	22342	21373	21192	19992	21603
309	23244	22506	21526	21347	20153	21755
310	23386	22657	21676	21497	20305	21904
311		22817	21828	21654	20466	
312		22965	21979	21804	20617	
313		23124	22130	21959	20779	
314		23275	22278	22110	20932	
315		23433	22434	22269	21093	
316			22584	22418	21241	
317			22735	22579	21405	
318			22884	22728	21559	
319			23035	22890	21721	
320			23184	23041	21874	
321			23333	23201	22039	
322				23351	22193	
323					22358	
324					22513	
325					22675	
326					22830	
327					22992	
328					23144	
329					23306	
330					23460	
331						
332						
333						

	T	U	V	W	X	Y
301	20108	19654	19461	19325	19215	19553
302	20253	19812	19613	19476	19366	19704
303	20408	19958	19766	19628	19513	19855
304	20554	20115	19920	19778	19657	20005
305	20708	20263	20075	19929	19805	20156
306	20855	20421	20228	20082	19954	20308
307	21011	20571	20384	20235	20102	20461
308	21161	20729	20538	20389	20248	20613
309	21313	20880	20695	20544	20392	20765
310	21462	21035	20852	20698	20538	20917
311	21623	21185	21008	20852	20684	21070
312	21774	21343	21165	21004	20834	21224
313	21930	21494	21320	21160	20981	21377
314	22083	21654	21477	21315	21135	21533
315	22240	21803	21636	21466	21285	21686
316	22391	21964	21793	21622	21441	21842
317	22550	22116	21949	21778	21595	21998
318	22698	22273	22111	21935	21750	22153
319	22860	22423	22268	22093	21903	22309
320	23011	22582	22430	22251	22058	22466
321	23171	22731	22588	22407	22213	22622
322	23324	22892	22744	22564	22372	22779
323		23043	22903	22720	22530	
324		23205	23060	22879	22692	
325		23353	23217	23038	22851	
326			23379	23196	23016	
327				23355	23177	
328					23342	
329						
330						
331						
332						
333						

	Z	AA	AB	AC	AD	AE
301	20576	20120	19328	19045	18700	19554
302	20732	20270	19485	19197	18838	19704
303	20892	20424	19629	19343	18982	19854
304	21046	20577	19786	19498	19123	20006
305	21199	20734	19929	19641	19266	20154
306	21356	20886	20087	19791	19405	20305
307	21511	21042	20231	19935	19550	20454
308	21663	21196	20386	20088	19688	20604
309	21819	21356	20529	20234	19833	20754
310	21974	21512	20683	20387	19973	20906
311	22128	21671	20828	20530	20116	21055
312	22281	21825	20987	20684	20255	21206
313	22434	21984	21135	20829	20403	21357
314	22587	22136	21297	20981	20547	21510
315	22743	22290	21445	21127	20698	21661
316	22896	22444	21607	21284	20843	21815
317	23055	22601	21753	21431	20994	21967
318	23210	22756	21912	21591	21140	22122
319	23365	22910	22057	21739	21290	22272
320		23063	22216	21894	21441	
321		23219	22365	22045	21594	
322		23374	22527	22201	21744	
323			22678	22349	21898	
324			22841	22513	22049	
325			22991	22665	22203	
326			23153	22827	22354	
327			23305	22978	22509	
328				23143	22664	
329				23298	22818	
330					22967	
331					23122	
332					23272	
333					23429	

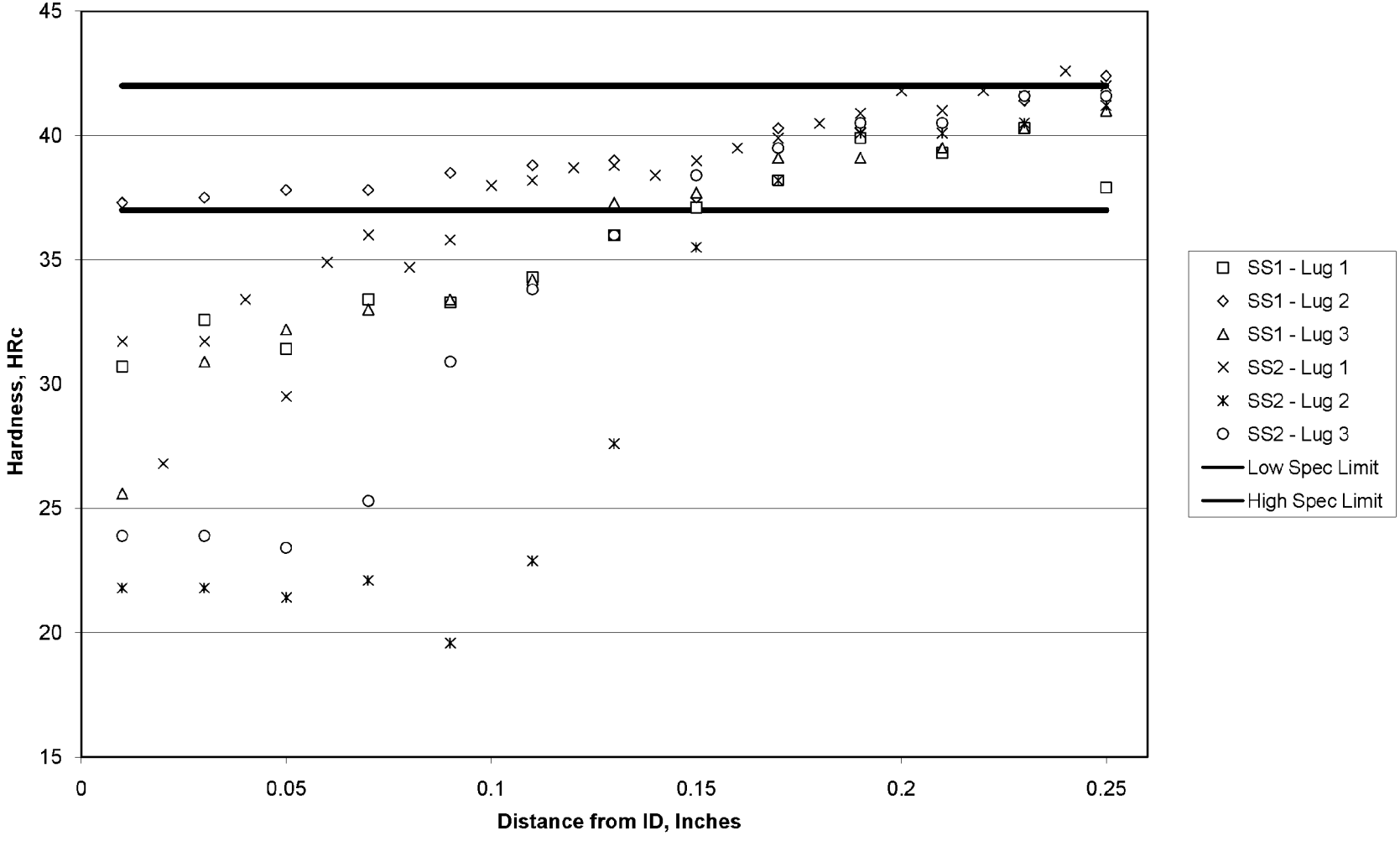
Sample test pieces to arrive from Mayfield – 5 fire control assemblies and 5 sear safety cams. The 10 sample safety sear cams are hand picked for the softest part available. Part to be evaluated for case depth (microhardness) and dry-cycle testing to determine suitability for product usage.

Microhardness – sample 5 pieces and determine effective and total case depth for each part.

Dry Cycle – Dry cycle 5 trigger assemblies to 2,000 cycles. Trigger scan data to be collected initially and then at 500, 1000, 1500, and 2000 cycles. Two assemblies with softest safety sear cams to be cycled to 5000 cycles, with trigger scan data collected at 3000, 4000, and 5000 cycles.

Trigger scan to collect 5 trigger pulls from each fire control assembly at the required cycle number.

Stainless Steel M770 Locking Lug Hardness



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3																
4		7034		7035		7036		7025		7026		7027				
5		SS1 - Lug 1		SS1 - Lug 2		SS1 - Lug 3		SS2 - Lug 1		SS2 - Lug 2		SS2 - Lug 3				
6		HV	HRc	HV	HRc	HV	HRc	HV	HRc	HV	HRc	HV	HRc			
7	0.01	307	30.7	364	37.3	271	25.6	315	31.7	247	21.8	260	23.9		37	42
8	0.02							279	26.8						37	42
9	0.03	322	32.6	366	37.5	309	30.9	315	31.7	247	21.8	260	23.9		37	42
10	0.04							329	33.4						37	42
11	0.05	313	31.4	369	37.8	319	32.2	298	29.5	245	21.4	257	23.4		37	42
12	0.06							342	34.9						37	42
13	0.07	329	33.4	369	37.8	326	33	352	36	249	22.1	269	25.3		37	42
14	0.08							340	34.7						37	42
15	0.09	328	33.3	376	38.5	329	33.4	350	35.8	235	19.6	309	30.9		37	42
16	0.1							371	38						37	42
17	0.11	337	34.3	379	38.8	336	34.2	373	38.2	254	22.9	332	33.8		37	42
18	0.12							378	38.7						37	42
19	0.13	352	36	381	39	364	37.3	379	38.8	284	27.6	352	36		37	42
20	0.14							375	38.4						37	42
21	0.15	362	37.1	366	37.5	368	37.7	381	39	347	35.5	375	38.4		37	42
22	0.16							386	39.5						37	42
23	0.17	373	38.2	394	40.3	382	39.1	390	39.9	373	38.2	386	39.5		37	42
24	0.18							396	40.5						37	42
25	0.19	390	39.9	394	40.3	382	39.1	400	40.9	392	40.1	396	40.5		37	42
26	0.2							410	41.8						37	42
27	0.21	384	39.3	396	40.5	386	39.5	402	41	392	40.1	396	40.5		37	42
28	0.22							410	41.8						37	42
29	0.23	394	40.3	406	41.4	394	40.3	408	41.6	396	40.5	408	41.6		37	42
30	0.24							419	42.6						37	42
31	0.25	370	37.9	417	42.4	402	41	413	42	404	41.2	408	41.6		37	42

Remington.

REMINGTON ARMS COMPANY, INC.
RESEARCH & DEVELOPMENT TECHNOLOGY CENTER
315 W. RING ROAD
ELIZABETHTOWN, KENTUCKY 42701-9318
(270) 769-7600 FAX (270) 737-9576

Remington Arms Company, Inc.
John C. Trull
Post Office Box 700
Madison, NC 27025

August 7, 2007

VIA EMAIL: JOHN.TRULL@REMINGTON.COM

The Test and Measurement organization within the Elizabethtown Research and Development facility formally supports exit from Trial and Pilot testing of the Stainless Steel M/770 Bolt Action Rifle variants (.243 Win., .270 Win., .30-06 Sprg, 7mm Rem. Mag. and .300 Win. Mag.) subject to the following conditions:

1. A Design Transmittal must occur to formally establish component dimensional, finish, and metallurgical parameters reflective of T&P product. All shipped product must conform to these parameters or a written deviation from design must be obtained from the Design team.
2. A Material specification identifying alloy composition and receiving condition for the barrel should be finalized and put in place to control incoming material.
3. Mayfield should put in place adequate process controls (i.e. hardness checks in the lug area) to ensure all barrel hardness specifications are met.

This is a new barrel material for Mayfield and new to the M/770 line. With that said Elizabethtown recommends a higher than normal inspection frequency for barrel lug hardness and inspection until a proven process with predictable results has been consistently proven. If Mayfield feels the need barrel samples can be sent to Elizabethtown on a lot sampling basis for a more thorough analysis of lug hardness via sectioning and metallurgical mounting for micro-hardness profile checks.

It goes without saying that all previous performance characteristics (accuracy, endurance, functional performance, esthetics, etc.) previously identified and deemed acceptable still hold for the stainless steel variant.

Elizabethtown stands ready to assist should you determine that additional audits of the product are required.

With Kind Regard,

Scott R. Franz
Manager of Research and Technology

Remington Arms Company, Inc.

	A	B	C	D	E	F	G	H
1	GUN PERFORMANCE							
2	CALIBER	LOG DATE	STAMP#	SERIAL#	GROUP SIZE	ROUNDS	DISTANCE	STATUS
3	M770 SS 270 WIN	08/14/07	78	71386134	1.2500	3	100	PASS
4	M770 SS 270 WIN	08/14/07	78	71390499	1.5000	3	100	PASS
5	M770 SS 270 WIN	08/14/07	12	71386318	1.0000	3	100	PASS
6	M770 SS 270 WIN	08/14/07	12	71386624	1.2500	3	100	PASS
7	M770 SS 270 WIN	08/14/07	78	71382323	1.6250	4	100	PASS
8	M770 SS 270 WIN	08/14/07	78	71382826	1.5000	3	100	PASS
9	M770 SS 270 WIN	08/14/07	66	71390505	1.1250	3	100	PASS
10	M770 SS 270 WIN	08/14/07	66	71390510	0.8125	3	100	PASS
11	M770 SS 270 WIN	08/14/07	66	71384640	1.1250	3	100	PASS
12	M770 SS 270 WIN	08/14/07	66	71390489	1.1250	3	100	PASS
13	M770 SS 270 WIN	08/14/07	66	71385392	1.3750	3	100	PASS
14	M770 SS 270 WIN	08/15/07	70	71384962	1.3750	3	100	PASS
15	M770 SS 270 WIN	08/15/07	70	71385413	1.5000	3	100	PASS
16	M770 SS 270 WIN	08/15/07	70	71386308	1.6250	3	100	PASS
17	M770 SS 270 WIN	08/15/07	70	71378766	1.3750	3	100	PASS
18	M770 SS 270 WIN	08/15/07	78	71386245	1.1250	3	100	PASS
19	M770 SS 270 WIN	08/15/07	78	71390468	0.7500	3	100	PASS
20	M770 SS 270 WIN	08/15/07	78	71386319	1.0000	3	100	PASS
21	M770 SS 270 WIN	08/15/07	78	71384728	1.6250	4	100	PASS
22	M770 SS 270 WIN	08/15/07	12	71386441	1.2500	3	100	PASS
23	M770 SS 270 WIN	08/15/07	12	71386352	1.5000	3	100	PASS
24	M770 SS 270 WIN	08/15/07	78	71383830	1.7500	4	100	PASS
25	M770 SS 270 WIN	08/15/07	78	71381239	1.5000	3	100	PASS
26				**AVERAGE:**	**1.3071**			
27	**RAMAC #85652**			**CARBON STEEL1/1/07 to 8/1/07 AVERAGE:**	**1.3163**		**BETTER /WORSE:**	**0.0092**
28								
29								
30	M770 SS 7MM REM MAG	08/15/07	66	71386635	1.2500	3	100	PASS
31	M770 SS 7MM REM MAG	08/15/07	66	71385908	1.6250	3	100	PASS
32	M770 SS 7MM REM MAG	08/15/07	66	71385400	1.0000	3	100	PASS
33				**AVERAGE:**	**1.2917**			
34	**RAMAC #85654**			**CARBON STEEL1/1/07 to 8/1/07 AVERAGE:**	**1.5155**		**BETTER /WORSE:**	**0.2238**

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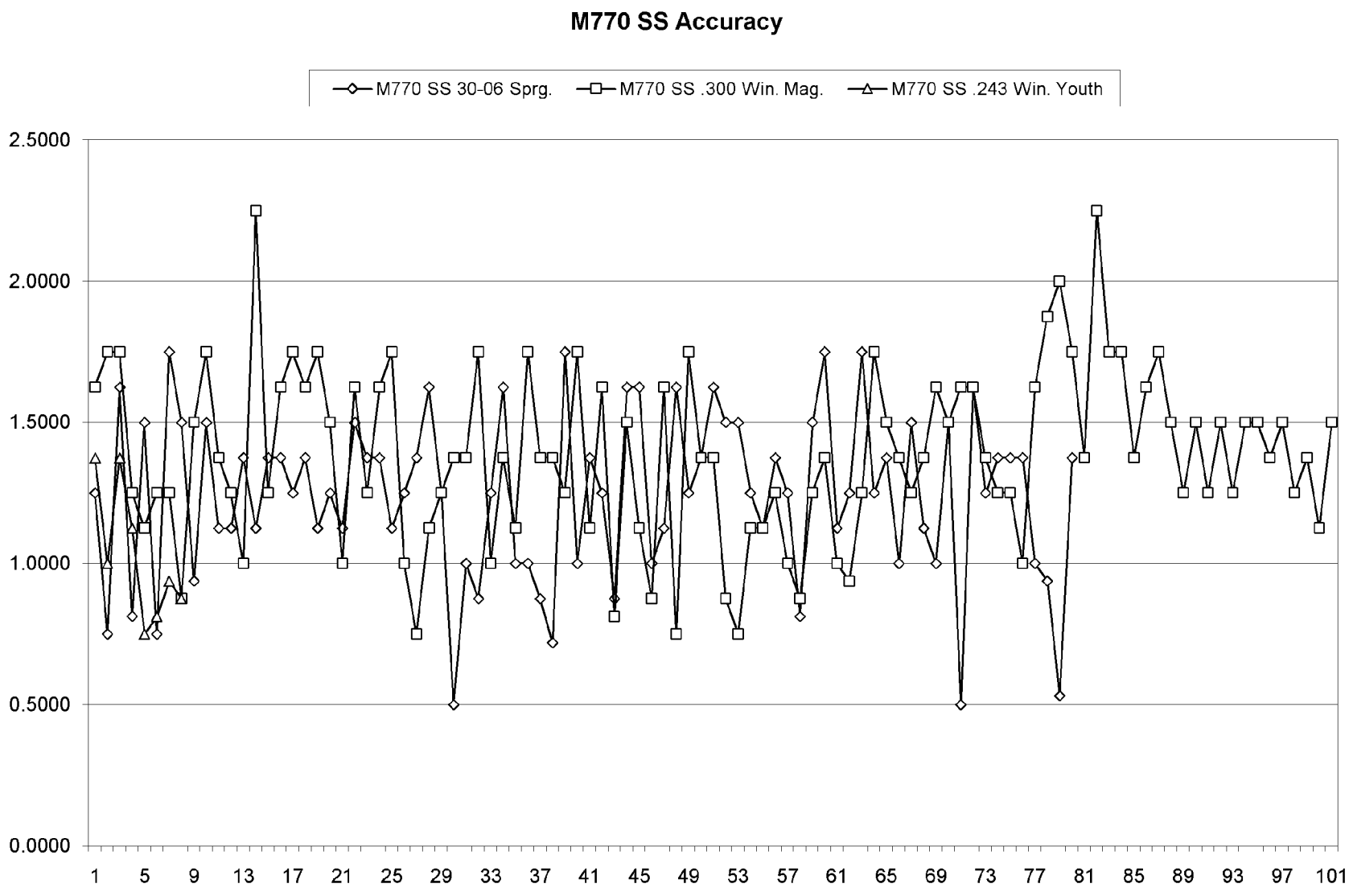
Comment: Identity(34893)

Stainles Steel Hardness Recording Sheet
Please check 1 out of every 5

Barrel Number	Rc (over lug)	Rc (between lugs)	Caliber
1	40.4	39.7	30-06
2	40.0	40.0	30-06
3	40.2	39.7	30-06
4	37.7	38.2	30-06
5	38.5	36.9	30-06
6	39.0	38.8	30-06
7	40.5	39.9	30-06
8	39.6	38.0	30-06
9	41.1	39.4	30-06
10	39.3	39.2	30-06
11	41.2	38.7	30-06
12	39.5	29.5	30-06
13	37.7	21.8	30-06
14	40.8	41.0	30-06
15	39.6	41.7	30-06
16	35.6	34.1	30-06
17	41.3	31.5	30-06
18	36.4	31.9	30-06
19	24.8	36.3	30-06
20	42.2	41.6	30-06
21	42.9	42.2	30-06
22	33.6	41.2	30-06
23	39.4	41.6	30-06
24	38.2	39.0	30-06
25	42.8	42.2	30-06
26	40.3	40.0	30-06
27	43.2	40.3	30-06
28	39.9	38.4	30-06
29	40.7	41.2	30-06
30	40.7	42.8	30-06
31	39.8	42.1	30-06
32	34.4	35.0	30-06
33	42.2	40.3	30-06
34	40.5	41.8	30-06
35	43.2	41.9	30-06
36	41.6	40.9	30-06
37	34.5	39.3	30-06
38	40.9	39.2	30-06
39	42.2	41.5	30-06
40	41.9	43.5	30-06
41	35.2	42.6	30-06
42	37.3	42.5	30-06
43	41.9	41.6	30-06
44	37.4	40.4	30-06
45	35.5	35.6	30-06
46	40.1	40.0	30-06
47	42.0	38.1	30-06
48	39.8	37.9	270
49	40.7	38.0	270
50	41.8	39.9	270

Stainles Steel Hardness Recording Sheet
Please check 1 out of every 5

Barrel Number	Rc (over lug)	Rc (between lugs)	Caliber
51	40.8	40.6	270
52	40.2	41.4	270
53	38.5	40.2	270
54	41.0	39.5	270
55	37.9	37.7	270
56	40.2	41.4	270
57	41.1	41.7	270
58	40.2	42.0	270
59	40.1	41.2	270
60	35.7	41.0	270
61	38.3	41.2	270
62	39.8	41.0	270
63	40.8	40.8	270
64	39.1	38.7	270
65	40.0	41.3	270
66	[illegible]	[illegible]	270
67	[illegible]	[illegible]	270
68	[illegible]	[illegible]	270
69	[illegible]	[illegible]	270
70	[illegible]	[illegible]	270
71	[illegible]	[illegible]	270
72	[illegible]	[illegible]	270
73	[illegible]	[illegible]	270
74	[illegible]	[illegible]	270
75	[illegible]	[illegible]	270
76	[illegible]	[illegible]	270
77	[illegible]	[illegible]	270
78	[illegible]	[illegible]	270
79	41.0	39.6	243
80	41.5	40.1	243
81	[illegible]	[illegible]	243
82	[illegible]	[illegible]	243
83	[illegible]	[illegible]	243
84	42.3	42.8	243
85	42.2	42.7	243
86	37.6	40.4	243
87	41.1	40.7	243
88	38.3	38.4	243
89	39.8	41.5	243
90	41.0	42.3	243
91	40.4	42.1	243
92	38.9	39.7	243
93	41.6	41.7	243
94	39.0	40.0	7mm
95	38.8	40.4	7mm
96	39.2	42.4	7mm
97	41.3	40.1	7mm
98	39.0	40.5	7mm
99	40.8	41.5	7mm
100			


M770 SS Accuracy
M770 SS 30-06 Sprg.
M770 SS .300 Win. Mag.
M770 SS .243 Win. Youth
2.5000
2.0000
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1.0000
0.5000
0.0000
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	A	B	C	D	E	F	G	H
1		GUN PERFORMANCE						
2		CALIBER	LOG DATE	STAMP#	SERIAL#	GROUP SIZE	ROUNDS	DISTANCE
3	1	M770 SS 300 WIN MAG	06/20/07	70	71378558	1.6250	3	100
4	2	M770 SS 300 WIN MAG	06/21/07	66	71378562	1.7500	3	100
5	3	M770 SS 300 WIN MAG	06/20/07	70	71378567	1.7500	3	100
6	4	M770 SS 300 WIN MAG	06/21/07	66	71378568	1.2500	3	100
7	5	M770 SS 300 WIN MAG	06/20/07	70	71378570	1.1250	3	100
8	6	M770 SS 300 WIN MAG	06/21/07	12	71378571	1.2500	3	100
9	7	M770 SS 300 WIN MAG	06/21/07	66	71378573	1.2500	3	100
10	8	M770 SS 300 WIN MAG	06/21/07	66	71378641	0.8750	3	100
11	9	M770 SS 300 WIN MAG	06/21/07	66	71378642	1.5000	3	100
12	10	M770 SS 300 WIN MAG	06/20/07	70	71378644	1.7500	3	100
13	11	M770 SS 300 WIN MAG	06/21/07	12	71378646	1.3750	3	100
14	12	M770 SS 300 WIN MAG	06/20/07	70	71378649	1.2500	3	100
15	13	M770 SS 300 WIN MAG	06/21/07	66	71378650	1.0000	3	100
16	14	M770 SS 300 WIN MAG	06/21/07	12	71378651	2.2500	3	100
17	15	M770 SS 300 WIN MAG	06/20/07	70	71378659	1.2500	3	100
18	16	M770 SS 300 WIN MAG	06/20/07	70	71378664	1.6250	3	100
19	17	M770 SS 300 WIN MAG	06/20/07	70	71378665	1.7500	3	100
20	18	M770 SS 300 WIN MAG	06/20/07	70	71378666	1.6250	3	100
21	19	M770 SS 300 WIN MAG	06/20/07	70	71378667	1.7500	3	100
22	20	M770 SS 300 WIN MAG	06/21/07	66	71378669	1.5000	3	100
23	21	M770 SS 300 WIN MAG	06/21/07	66	71378730	1.0000	3	100
24	22	M770 SS 300 WIN MAG	06/21/07	66	71378731	1.6250	3	100
25	23	M770 SS 300 WIN MAG	06/21/07	66	71378733	1.2500	3	100
26	24	M770 SS 300 WIN MAG	06/21/07	66	71378734	1.6250	3	100
27	25	M770 SS 300 WIN MAG	06/20/07	70	71378736	1.7500	3	100
28	26	M770 SS 300 WIN MAG	06/21/07	66	71378738	1.0000	3	100
29	27	M770 SS 300 WIN MAG	06/21/07	66	71378739	0.7500	3	100
30	28	M770 SS 300 WIN MAG	06/21/07	66	71378740	1.1250	3	100
31	29	M770 SS 300 WIN MAG	06/21/07	66	71378745	1.2500	3	100
32	30	M770 SS 300 WIN MAG	06/21/07	66	71378749	1.3750	3	100
33	31	M770 SS 300 WIN MAG	06/21/07	66	71378751	1.3750	3	100
34	32	M770 SS 300 WIN MAG	06/21/07	66	71378752	1.7500	3	100
35	33	M770 SS 300 WIN MAG	06/21/07	12	71378756	1.0000	3	100
36	34	M770 SS 300 WIN MAG	06/20/07	70	71378757	1.3750	3	100
37	35	M770 SS 300 WIN MAG	06/21/07	66	71378758	1.1250	3	100
38	36	M770 SS 300 WIN MAG	06/20/07	70	71378759	1.7500	3	100
39	37	M770 SS 300 WIN MAG	06/21/07	66	71378761	1.3750	3	100
40	38	M770 SS 300 WIN MAG	06/20/07	70	71378762	1.3750	3	100
41	39	M770 SS 300 WIN MAG	06/20/07	70	71378765	1.2500	3	100
42	40	M770 SS 300 WIN MAG	06/21/07	12	71378767	1.7500	3	100
43	41	M770 SS 300 WIN MAG	06/20/07	70	71378769	1.1250	3	100
44	42	M770 SS 300 WIN MAG	06/21/07	12	71378772	1.6250	3	100
45	43	M770 SS 300 WIN MAG	06/20/07	70	71378774	0.8125	3	100
46	44	M770 SS 300 WIN MAG	06/21/07	66	71378775	1.5000	3	100
47	45	M770 SS 300 WIN MAG	06/20/07	70	71378776	1.1250	3	100
48	46	M770 SS 300 WIN MAG	06/20/07	70	71378779	0.8750	3	100
49	47	M770 SS 300 WIN MAG	06/20/07	70	71378781	1.6250	3	100
50	48	M770 SS 300 WIN MAG	06/20/07	70	71378782	0.7500	3	100
51	49	M770 SS 300 WIN MAG	06/21/07	66	71378783	1.7500	3	100
52	50	M770 SS 300 WIN MAG	06/20/07	70	71378785	1.3750	3	100

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2	STATUS
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53	51	M770 SS 300 WIN MAG	06/21/07	66	71378786	1.3750	3	100
54	52	M770 SS 300 WIN MAG	06/20/07	70	71378790	0.8750	3	100
55	53	M770 SS 300 WIN MAG	06/21/07	66	71378791	0.7500	3	100
56	54	M770 SS 300 WIN MAG	06/21/07	12	71378792	1.1250	3	100
57	55	M770 SS 300 WIN MAG	06/21/07	66	71378794	1.1250	3	100
58	56	M770 SS 300 WIN MAG	06/21/07	12	71378795	1.2500	3	100
59	57	M770 SS 300 WIN MAG	06/21/07	66	71378797	1.0000	3	100
60	58	M770 SS 300 WIN MAG	06/20/07	70	71378798	0.8750	3	100
61	59	M770 SS 300 WIN MAG	06/20/07	70	71378799	1.2500	3	100
62	60	M770 SS 300 WIN MAG	06/20/07	70	71378803	1.3750	3	100
63	61	M770 SS 300 WIN MAG	06/20/07	70	71378804	1.0000	3	100
64	62	M770 SS 300 WIN MAG	06/20/07	70	71378805	0.9375	3	100
65	63	M770 SS 300 WIN MAG	06/21/07	66	71378807	1.2500	3	100
66	64	M770 SS 300 WIN MAG	06/21/07	12	71378808	1.7500	3	100
67	65	M770 SS 300 WIN MAG	06/20/07	70	71378809	1.5000	3	100
68	66	M770 SS 300 WIN MAG	06/21/07	66	71378810	1.3750	3	100
69	67	M770 SS 300 WIN MAG	06/20/07	70	71378811	1.2500	3	100
70	68	M770 SS 300 WIN MAG	06/21/07	12	71378813	1.3750	3	100
71	69	M770 SS 300 WIN MAG	06/20/07	70	71378815	1.6250	3	100
72	70	M770 SS 300 WIN MAG	06/20/07	70	71378816	1.5000	3	100
73	71	M770 SS 300 WIN MAG	06/21/07	12	71378817	1.6250	3	100
74	72	M770 SS 300 WIN MAG	06/20/07	70	71378851	1.6250	3	100
75	73	M770 SS 300 WIN MAG	06/21/07	66	71378852	1.3750	3	100
76	74	M770 SS 300 WIN MAG	06/21/07	12	71378853	1.2500	3	100
77	75	M770 SS 300 WIN MAG	06/21/07	66	71378854	1.2500	3	100
78	76	M770 SS 300 WIN MAG	06/20/07	70	71378857	1.0000	3	100
79	77	M770 SS 300 WIN MAG	06/20/07	70	71378858	1.6250	3	100
80	78	M770 SS 300 WIN MAG	06/21/07	66	71378863	1.8750	3	100
81	79	M770 SS 300 WIN MAG	06/21/07	12	71378864	2.0000	3	100
82	80	M770 SS 300 WIN MAG	06/21/07	66	71378865	1.7500	3	100
83	81	M770 SS 300 WIN MAG	06/20/07	70	71378867	1.3750	3	100
84	82	M770 SS 300 WIN MAG	06/21/07	12	71378869	2.2500	3	100
85	83	M770 SS 300 WIN MAG	06/20/07	70	71378871	1.7500	3	100
86	84	M770 SS 300 WIN MAG	06/21/07	66	71378940	1.7500	3	100
87	85	M770 SS 300 WIN MAG	06/20/07	70	71378941	1.3750	3	100
88	86	M770 SS 300 WIN MAG	06/20/07	70	71378944	1.6250	3	100
89	87	M770 SS 300 WIN MAG	06/21/07	66	71378945	1.7500	3	100
90	88	M770 SS 300 WIN MAG	06/20/07	70	71378946	1.5000	3	100
91	89	M770 SS 300 WIN MAG	06/20/07	70	71378946	1.2500	3	100
92		M770 SS 300 WIN MAG	06/20/07	70	71378946	1.5000	3	100
93		M770 SS 300 WIN MAG	06/20/07	70	71378946	1.2500	3	100
94	90	M770 SS 300 WIN MAG	06/21/07	66	71378947	1.5000	3	100
95	91	M770 SS 300 WIN MAG	06/20/07	70	71378948	1.2500	3	100
96	92	M770 SS 300 WIN MAG	06/20/07	70	71378955	1.5000	3	100
97	93	M770 SS 300 WIN MAG	06/20/07	70	71378961	1.5000	3	100
98	94	M770 SS 300 WIN MAG	06/21/07	66	71378962	1.3750	3	100
99	95	M770 SS 300 WIN MAG	06/21/07	12	71378963	1.5000	3	100
100	96	M770 SS 300 WIN MAG	06/21/07	66	71378964	1.2500	3	100
101	97	M770 SS 300 WIN MAG	06/20/07	70	71378966	1.3750	3	100
102	98	M770 SS 300 WIN MAG	06/20/07	70	71378967	1.1250	3	100
103	99	M770 SS 300 WIN MAG	06/20/07	70	71378969	1.5000	3	100
104								
105					**AVERAGE:**	**1.3964**		

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53	PASS
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106					**1/1/07 TO 6/17/07CARBON STEEL BARREL AVERAGE:**	**1.7085**		**BETTER /WORSE:**
107								
108								
109	1	M770 SS 243 WIN YOUTH	06/20/07	70	71378661	1.3750	3	100
110	2	M770 SS 243 WIN YOUTH	06/20/07	70	71378878	1.0000	3	100
111	3	M770 SS 243 WIN YOUTH	06/20/07	70	71378965	1.3750	3	100
112	4	M770 SS 243 WIN YOUTH	06/20/07	70	71378875	1.1250	3	100
113	5	M770 SS 243 WIN YOUTH	06/20/07	70	71378750	0.7500	3	100
114	6	M770 SS 243 WIN YOUTH	06/20/07	66	71378780	0.8125	3	100
115	7	M770 SS 243 WIN YOUTH	06/20/07	66	71378778	0.9375	3	100
116	8	M770 SS 243 WIN YOUTH	06/20/07	66	71378796	0.8750	3	100
117					**AVERAGE:**	**1.0313**		
118					**1/1/07 TO 6/17/07CARBON STEEL BARREL AVERAGE:**	**1.1934**		**BETTER /WORSE:**
119								
120	1	M770 SS 30-06 SPRG	06/20/07	70	71366912	1.2500	3	100
121	2	M770 SS 30-06 SPRG	06/18/07	70	71378550	0.7500	3	100
122	3	M770 SS 30-06 SPRG	06/18/07	70	71378551	1.6250	3	100
123	4	M770 SS 30-06 SPRG	06/21/07	66	71378555	0.8125	3	100
124	5	M770 SS 30-06 SPRG	06/18/07	70	71378559	1.5000	3	100
125	6	M770 SS 30-06 SPRG	06/18/07	70	71378560	0.7500	3	100
126	7	M770 SS 30-06 SPRG	06/18/07	70	71378561	1.7500	3	100
127	8	M770 SS 30-06 SPRG	06/18/07	70	71378563	1.5000	3	100
128	9	M770 SS 30-06 SPRG	06/18/07	70	71378566	0.9375	3	100
129	10	M770 SS 30-06 SPRG	06/18/07	70	71378569	1.5000	3	100
130	11	M770 SS 30-06 SPRG	06/18/07	70	71378576	1.1250	3	100
131	12	M770 SS 30-06 SPRG	06/18/07	70	71378640	1.1250	3	100
132	13	M770 SS 30-06 SPRG	06/18/07	70	71378643	1.3750	3	100
133	14	M770 SS 30-06 SPRG	06/18/07	70	71378645	1.1250	3	100
134	15	M770 SS 30-06 SPRG	06/20/07	66	71378647	1.3750	3	100
135	16	M770 SS 30-06 SPRG	06/18/07	70	71378648	1.3750	3	100
136	17	M770 SS 30-06 SPRG	06/18/07	70	71378652	1.2500	3	100
137	18	M770 SS 30-06 SPRG	06/20/07	70	71378653	1.3750	3	100
138	19	M770 SS 30-06 SPRG	06/18/07	70	71378654	1.1250	3	100
139	20	M770 SS 30-06 SPRG	06/18/07	70	71378655	1.2500	3	100
140	21	M770 SS 30-06 SPRG	06/21/07	66	71378656	1.1250	3	100
141	22	M770 SS 30-06 SPRG	06/20/07	66	71378657	1.5000	3	100
142	23	M770 SS 30-06 SPRG	06/18/07	70	71378658	1.3750	3	100
143	24	M770 SS 30-06 SPRG	06/18/07	70	71378660	1.3750	3	100
144	25	M770 SS 30-06 SPRG	06/18/07	70	71378662	1.1250	3	100
145	26	M770 SS 30-06 SPRG	06/18/07	70	71378668	1.2500	3	100
146	27	M770 SS 30-06 SPRG	06/20/07	66	71378732	1.3750	3	100
147	28	M770 SS 30-06 SPRG	06/18/07	70	71378737	1.6250	3	100
148	29	M770 SS 30-06 SPRG	06/20/07	66	71378741	1.2500	3	100
149	30	M770 SS 30-06 SPRG	06/18/07	70	71378742	0.5000	3	100
150	31	M770 SS 30-06 SPRG	06/18/07	70	71378743	1.0000	3	100
151	32	M770 SS 30-06 SPRG	06/18/07	70	71378744	0.8750	3	100
152	33	M770 SS 30-06 SPRG	06/18/07	70	71378746	1.2500	3	100
153	34	M770 SS 30-06 SPRG	06/20/07	66	71378747	1.6250	3	100
154	35	M770 SS 30-06 SPRG	06/21/07	66	71378748	1.0000	3	100
155	36	M770 SS 30-06 SPRG	06/18/07	70	71378753	1.0000	3	100
156	37	M770 SS 30-06 SPRG	06/18/07	70	71378755	0.8750	3	100
157	38	M770 SS 30-06 SPRG	06/18/07	70	71378760	0.7189	3	100
158	39	M770 SS 30-06 SPRG	06/18/07	70	71378763	1.7500	3	100

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106	**0.3121**
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109	PASS
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118	**0.1622**
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159	40	M770 SS 30-06 SPRG	06/21/07	66	71378764	1.0000	3	100
160	41	M770 SS 30-06 SPRG	06/18/07	70	71378770	1.3750	3	100
161	42	M770 SS 30-06 SPRG	06/18/07	70	71378771	1.2500	3	100
162	43	M770 SS 30-06 SPRG	06/18/07	70	71378773	0.8750	3	100
163	44	M770 SS 30-06 SPRG	06/18/07	70	71378784	1.6250	3	100
164	45	M770 SS 30-06 SPRG	06/20/07	66	71378787	1.6250	3	100
165	46	M770 SS 30-06 SPRG	06/18/07	70	71378789	1.0000	3	100
166	47	M770 SS 30-06 SPRG	06/21/07	66	71378793	1.1250	3	100
167	48	M770 SS 30-06 SPRG	06/18/07	70	71378800	1.6250	3	100
168	49	M770 SS 30-06 SPRG	06/18/07	70	71378801	1.2500	3	100
169	50	M770 SS 30-06 SPRG	06/18/07	70	71378802	1.3750	3	100
170	51	M770 SS 30-06 SPRG	06/20/07	66	71378806	1.6250	3	100
171	52	M770 SS 30-06 SPRG	06/20/07	70	71378812	1.5000	3	100
172	53	M770 SS 30-06 SPRG	06/18/07	70	71378814	1.5000	3	100
173	54	M770 SS 30-06 SPRG	06/18/07	70	71378818	1.2500	3	100
174	55	M770 SS 30-06 SPRG	06/21/07	66	71378819	1.1250	3	100
175	56	M770 SS 30-06 SPRG	06/18/07	70	71378850	1.3750	3	100
176	57	M770 SS 30-06 SPRG	06/18/07	70	71378856	1.2500	3	100
177	58	M770 SS 30-06 SPRG	06/20/07	66	71378860	0.8125	3	100
178	59	M770 SS 30-06 SPRG	06/18/07	70	71378862	1.5000	3	100
179	60	M770 SS 30-06 SPRG	06/18/07	70	71378866	1.7500	3	100
180	61	M770 SS 30-06 SPRG	06/18/07	70	71378868	1.1250	3	100
181	62	M770 SS 30-06 SPRG	06/20/07	66	71378872	1.2500	3	100
182	63	M770 SS 30-06 SPRG	06/18/07	70	71378873	1.7500	3	100
183	64	M770 SS 30-06 SPRG	06/18/07	70	71378874	1.2500	3	100
184	65	M770 SS 30-06 SPRG	06/18/07	70	71378876	1.3750	3	100
185	66	M770 SS 30-06 SPRG	06/20/07	66	71378877	1.0000	3	100
186	67	M770 SS 30-06 SPRG	06/20/07	70	71378942	1.5000	3	100
187	68	M770 SS 30-06 SPRG	06/21/07	66	71378943	1.1250	3	100
188	69	M770 SS 30-06 SPRG	06/18/07	70	71378950	1.0000	3	100
189	70	M770 SS 30-06 SPRG	06/18/07	70	71378951	1.5000	3	100
190	71	M770 SS 30-06 SPRG	06/18/07	70	71378952	0.5000	3	100
191	72	M770 SS 30-06 SPRG	06/18/07	70	71378953	1.6250	3	100
192	73	M770 SS 30-06 SPRG	06/18/07	70	71378954	1.2500	3	100
193	74	M770 SS 30-06 SPRG	06/18/07	70	71378956	1.3750	3	100
194	75	M770 SS 30-06 SPRG	06/20/07	66	71378957	1.3750	3	100
195	76	M770 SS 30-06 SPRG	06/18/07	70	71378958	1.3750	3	100
196	77	M770 SS 30-06 SPRG	06/18/07	70	71378959	1.0000	3	100
197	78	M770 SS 30-06 SPRG	06/18/07	70	71378960	0.9375	3	100
198	79	M770 SS 30-06 SPRG	06/18/07	70	71378968	0.5312	3	100
199	80	M770 SS 30-06 SPRG	06/20/07	66	714378768	1.3750	3	100
200								
201					**AVERAGE:**	**1.2031**		
202					**1/1/07 TO 6/17/07CARBON STEEL BARREL AVERAGE:**	**1.3402**		**BETTER /WORSE:**

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159	PASS
160	PASS
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162	PASS
163	PASS
164	PASS
165	PASS
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167	PASS
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202	**0.1371**

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Comment: Identity(33592)

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Comment: Identity(33695)

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	A	B	C	D	E
1	***Barrel Number***	***Serial Number***	***Rc (over lug)***	***Rc (between lugs)***	***Caliber***
2	1	71378555	37.4	37.6	30-06
3	2	71378760	38.5	44.3	30-06
4	3	71378768	37.3	36.7	30-06
5	4	71378657	35.1	35.2	30-06
6	5	71378819	33.7	36.1	30-06
7	6	71378741	35.4	37.4	30-06
8	7	71378968	34.6	35.8	30-06
9	8	71378942	44.8	36.8	30-06
10	9	71378654	47.6	42.5	30-06
11	10	71378763	36.3	37.2	30-06
12	11	71378656	39	46.6	30-06
13	12	71378748	36.1	37	30-06
14	13	71378569	40.7	46.6	30-06
15	14	71378655	39.2	41.1	30-06
16	15	71378957	38.7	39.5	30-06
17	16	71378954	43.4	37.8	30-06
18	17	71378943	39.2	37.9	30-06
19	18	71378877	41.6	36.2	30-06
20	19	71378855	36.6	35.5	30-06
21	20	71378806	38.2	36.3	30-06
22	21	71378551	42.4	37.1	30-06
23	22	71378746	46	36.5	30-06
24	23	71378732	41.9	39.6	30-06
25	24	71366912	38.8	39.8	30-06
26	25	71378764	38.7	36.3	30-06
27	26	71378793	39.5	41.2	30-06
28	27	71378647	41.5	38.7	30-06
29	28	71378872	38.9	40.7	30-06
30	29	71378747	38.1	39	30-06
31	30	71378653	38.1	43.3	30-06
32	31	71378952	41.5	40.1	30-06
33	32	71378879	41.9	41.5	30-06
34	33	71378737	40.6	38.1	30-06
35	34	71378788	42.6	40.6	30-06
36	35	71378658	42.6	40.3	30-06
37	36	71378770	41.1	40.6	30-06
38	37	71378652	43	39.9	30-06
39	38	71378773	41.6	39.5	30-06
40	39	71378873	42.2	40	30-06
41	40	71378818	42.6	40.6	30-06
42	41	71378789	41.1	40.6	30-06
43	42	71378668	40.5	39	30-06
44	43	71378743	42.8	40.3	30-06
45	44	71378850	42.4	40.8	30-06

	A	B	C	D	E
46	45	??????????????????????	38.1	36.5	30-06
47	46	??????????????????????	43	41.6	30-06
48	47	71378868	41.3	39.8	30-06
49	48	71378559	37	40.5	30-06
50	49	71378802	37.7	39.9	30-06
51	50	71378860	39.9	41.4	30-06
52	51	71378563	43.1	41.1	30-06
53	52	71378561	40.6	40.8	30-06
54	53	71378744	38.2	39.6	30-06
55	54	71378784	40.1	40.5	30-06
56	55	71378755	41.8	40	30-06
57	56	71378960	43.1	40.5	30-06
58	57	??????????????????????	42.3	41.1	30-06
59	58	71378958	41.1	39.2	30-06
60	59	71378662	38.6	39.2	30-06
61	60	71378771	44.4	42.8	30-06
62	61	71378640	42.5	40.8	30-06
63	62	71378643	41.9	39.2	30-06
64	63	71378645	41.8	39.1	30-06
65	64	71378953	38.5	42.9	30-06
66	65	71378812	41.2	39.6	30-06
67	66	71378801	44.9	38.7	30-06
68	67	71378753	43.9	42.7	30-06
69	68	71378550	42.9	41.4	30-06
70	69	71378787	37.9	37.3	30-06
71	70	71378959	39.4	38.2	30-06
72	71	71378777	38.1	41.9	30-06
73	72	??????????????????????	44.6	40.4	30-06
74	73	71378566	42.7	40.6	30-06
75	74	71378956	46.7	38.6	30-06
76	75	71378874	42	39.5	30-06
77	76	71378576	36.3	39.1	30-06
78	77	71378866	43.3	40	30-06
79	78	71378856	44.5	38.9	30-06
80	79	71378560	35.4	38.6	30-06
81	80	71378660	42.2	39.6	30-06
82	81	71378876	40.3	39.4	30-06
83	82	71378951	42.2	41.1	30-06
84	83	71378862	43	38.4	30-06
85	84	71378648	41.4	40.5	30-06
86	85	71378950	44.9	39.9	30-06
87					
88		average	40.67	39.64	
89		std dev	2.88	2.19	
90		max	47.6	46.6	

	A	B	C	D	E
91		min	33.7	35.2	

	A	B	C	D	E
1	***Barrel Number***	***Serial Number***	***Rc (over lug)***	***Rc (between lugs)***	***Caliber***
2	1	71378778	41.6	41.1	0.243
3	2	71378878	42.4	42.1	0.243
4	3	71378661	41.2	39.6	0.243
5	4	71378875	43.3	43.1	0.243
6	5	71378780	37.1	39.3	0.243
7	6	71378965	38.6	41.4	0.243
8	7	71378750	42.4	40.4	0.243
9	8	71378796	36.1	36.4	0.243
10					
11		average	40.34	40.43	
12		std dev	2.70	2.05	
13		max	43.3	43.1	
14		min	36.1	36.4	

	A	B	C	D	E
1	***Barrel Number***	***Serial Number***	***Rc (over lug)***	***Rc (between lugs)***	***Caliber***
2	1	71378740	43.1	43	300 WM
3	2	71378730	37.8	39.8	300 WM
4	3	71378863	42.3	40.4	300 WM
5	4	71378562	37.6	37.9	300 WM
6	5	71378810	41.3	39.8	300 WM
7	6	71378870	36.2	35.1	300 WM
8	7	71378947	37.8	39.5	300 WM
9	8	71378807	42	38.9	300 WM
10	9	71378794	38	37.6	300 WM
11	10	71378749	36.9	37	300 WM
12	11	71378775	37.4	36.4	300 WM
13	12	71378752	41.5	38	300 WM
14	13	71378804	42.9	39.3	300 WM
15	14	71378762	40.6	38.9	300 WM
16	15	71378805	37.1	37.4	300 WM
17	16	71378632	39.9	39.3	300 WM
18	17	71378558	43.5	42.8	300 WM
19	18	71378779	40	38.7	300 WM
20	19	71378790	41	40.1	300 WM
21	20	71378791	40.6	40.3	300 WM
22	21	71378659	41.8	40.5	300 WM
23	22	71378665	40.6	39.9	300 WM
24	23	71378641	39.9	39.2	300 WM
25	24	71378786	39.2	39.7	300 WM
26	25	71378967	40.2	38.8	300 WM
27	26	71378570	41.2	39.6	300 WM
28	27	71378945	41.5	39.4	300 WM
29	28	71378738	42	40.3	300 WM
30	29	71378859	41.4	36.6	300 WM
31	30	71378666	41.3	40	300 WM
32	31	71378946	40.6	38.5	300 WM
33	32	71378798	41.4	38.7	300 WM
34	33	71378774	40.7	36.9	300 WM
35	34	71378739	42.4	39.8	300 WM
36	35	71378782	42.1	40.1	300 WM
37	36	71378783	42.4	40.3	300 WM
38	37	71378766	39.4	37.1	300 WM
39	38	71378871	41.1	40.9	300 WM
40	39	71378867	41.1	39.1	300 WM
41	40	71378650	42	39	300 WM
42	41	71378736	37.5	37.6	300 WM
43	42	71378733	41.7	40	300 WM
44	43	71378758	41.5	40.9	300 WM
45	44	71378731	39.7	38.2	300 WM

	A	B	C	D	E
46	45	71378797	40.6	38.9	300 WM
47	46	71378642	39.4	38	300 WM
48	47	71378964	41.1	40	300 WM
49	48	71378854	42	39.9	300 WM
50	49	71378573	40.8	40.4	300 WM
51	50	71378745	41.5	40.6	300 WM
52	51	71378751	39.1	38.2	300 WM
53	52	71378651	43.1	42.6	300 WM
54	53	71378813	41.9	42.1	300 WM
55	54	71378795	42.6	42.6	300 WM
56	55	71378817	42.4	41.3	300 WM
57	56	71378646	42	41.8	300 WM
58	57	71378963	42.5	42.3	300 WM
59	58	71378869	42.6	42	300 WM
60	59	71378853	44	41.5	300 WM
61	60	71378756	42.5	41.3	300 WM
62	61	71378864	42.5	39	300 WM
63	62	71378792	42.7	41	300 WM
64	63	71378808	43.4	41.7	300 WM
65	64	71378767	42.4	42.1	300 WM
66	65	71378568	42.3	40.4	300 WM
67	66	71378809	37.3	40.6	300 WM
68	67	71378961	41.2	37.7	300 WM
69	68	71378955	41.5	41	300 WM
70	69	71378785	41.9	39	300 WM
71	70	71378815	41.9	37.7	300 WM
72	71	71378949	41.2	39.5	300 WM
73	72	71378667	41.8	40.2	300 WM
74	73	71378948	41.9	40.4	300 WM
75	74	71378857	42.8	40.9	300 WM
76	75	71378765	43	41.3	300 WM
77	76	71378769	41.7	42.8	300 WM
78	77	71378664	41.7	40.7	300 WM
79	78	71378944	42.5	41.2	300 WM
80	79	71378567	39.1	35.8	300 WM
81	80	71378858	42.5	40.8	300 WM
82	81	71378799	42.3	40.8	300 WM
83	82	71378851	40.5	36.8	300 WM
84	83	71378649	41.1	38.2	300 WM
85	84	71378757	43	40.8	300 WM
86	85	71378776	40.7	42.6	300 WM
87	86	71378759	40.5	38.4	300 WM
88	87	71378811	40.8	39.8	300 WM
89	88	71378663	41.5	41.7	300 WM
90	89	71378803	42.7	41.3	300 WM

	A	B	C	D	E
91	90	71378966	39.3	38.5	300 WM
92	91	71378781	38.5	39.5	300 WM
93	92	71378969	40.7	38.6	300 WM
94	93	71378861	41.5	40.5	300 WM
95	94	71378644	40.9	40.7	300 WM
96	95	71378941	41.4	39	300 WM
97	96	71378816	41.3	38.5	300 WM
98	97	71378571	41.4	38.7	300 WM
99	98	71378772	40.5	37.8	300 WM
100	99	71378940	41.1	40.9	300 WM
101	100	71378761	42.6	41.4	300 WM
102	101	71378865	43.8	40	300 WM
103	102	71378556	41.2	38.3	300 WM
104	103	71378754	42	39.5	300 WM
105	104	71378734	41.1	39.4	300 WM
106	105	71378554	41.6	38.5	300 WM
107					
108		average	41.10	39.70	
109		std dev	1.62	1.64	
110		max	44	43	
111		min	36.2	35.1	

	A	B	C	D	E
1					
2					
3			Over Lug	Between Lug	
4		1	40.4	39.7	30-06
5		2	40	40	30-06
6		3	40.2	39.7	30-06
7		4	37.7	38.2	30-06
8		5	38.5	36.9	30-06
9		6	39	38.8	30-06
10		7	40.5	39.9	30-06
11		8	39.6	38	30-06
12		9	41.1	39.4	30-06
13		10	39.3	39.2	30-06
14		11	41.2	38.7	30-06
15		12	35.3	29.5	30-06
16		13	37.7	21.8	30-06
17		14	40.8	41	30-06
18		15	39.6	41.7	30-06
19		16	38.5	39.1	30-06
20		17	41.3	39.5	30-06
21		18	38.9	39.9	30-06
22		19	29.8	30.3	30-06
23		20	42.2	41.6	30-06
24		21	42.9	42.2	30-06
25		22	33.6	41.2	30-06
26		23	39.4	41	30-06
27		24	38.2	39	30-06
28		25	42.8	42.2	30-06
29		26	40.3	40	30-06
30		27	43.2	40.3	30-06
31		28	39.9	38.4	30-06
32		29	40.7	41.2	30-06
33		30	40.7	42.8	30-06
34		31	39.8	42.1	30-06
35		32	32.4	35	30-06
36		33	42.2	40.3	30-06
37		34	40.5	41.8	30-06
38		35	43.2	41.9	30-06
39		36	41.6	40.8	30-06
40		37	34.5	39.3	30-06
41		38	40.9	39.2	30-06
42		39	42.2	41.5	30-06
43		40	41.9	43.5	30-06
44		41	35.2	42.6	30-06
45		42	37.3	42.5	30-06

	A	B	C	D	E
46		43	41.9	41.6	30-06
47		44	37.4	40.4	30-06
48		45	35.5	35.6	30-06
49		46	40.1	40	30-06
50		47	42	38.1	30-06
51		48	39.8	37.9	270
52		49	40.7	38	270
53		50	40.8	39.9	270
54		51	40.8	40.6	270
55		52	40.2	41.4	270
56		53	38.5	42.2	270
57		54	41	39.5	270
58		55	37.9	39.9	270
59		56	40.2	41.4	270
60		57	41.1	41.7	270
61		58	40.2	42	270
62		59	40.1	41.2	270
63		60	35.7	41	270
64		61	35.3	41.2	270
65		62	39.8	41	270
66		63	40.8	40.8	270
67		64	39.1	38.7	270
68		65	40	41.3	270
69		66	40.4	42.4	270
70		67	40.4	40.1	270
71		68	42.9	40.2	270
72		69	38.6	39.2	270
73		70	38.9	40.8	270
74		71	37.5	39.9	270
75		72	40.2	37.9	270
76		73	38.6	39.4	270
77		74	40.6	41.9	270
78		75	39.5	40.5	270
79		76	40.6	40.4	270
80		77	39.9	42	270
81		78	39.5	39.5	270
82		79	41	39.6	243
83		80	41.5	40.1	243
84		81	39.3	41	243
85		82	37.9	40.4	243
86		83	41.6	40.9	243
87		84	42.3	42.8	243
88		85	42.2	42.7	243
89		86	37.6	40.4	243
90		87	41.1	40.7	243

	A	B	C	D	E
91		88	38.3	38.4	243
92		89	39.8	42.5	243
93		90	41	42.3	243
94		91	40.4	42.1	243
95		92	38.9	39.7	243
96		93	41.6	41.7	243
97		94	39	40	7mm
98		95	39.8	40.4	7mm
99		96	38.2	42.4	7mm
100		97	41.5	40.7	7mm
101		98	39	40.5	7mm
102		99	40.8	41.5	7mm
103					
104		Average	39.63939394	40.02121212	
105		Std Dev	2.285750811	2.82598268	
106		Max	43.2	43.5	
107		Min	29.8	21.8	

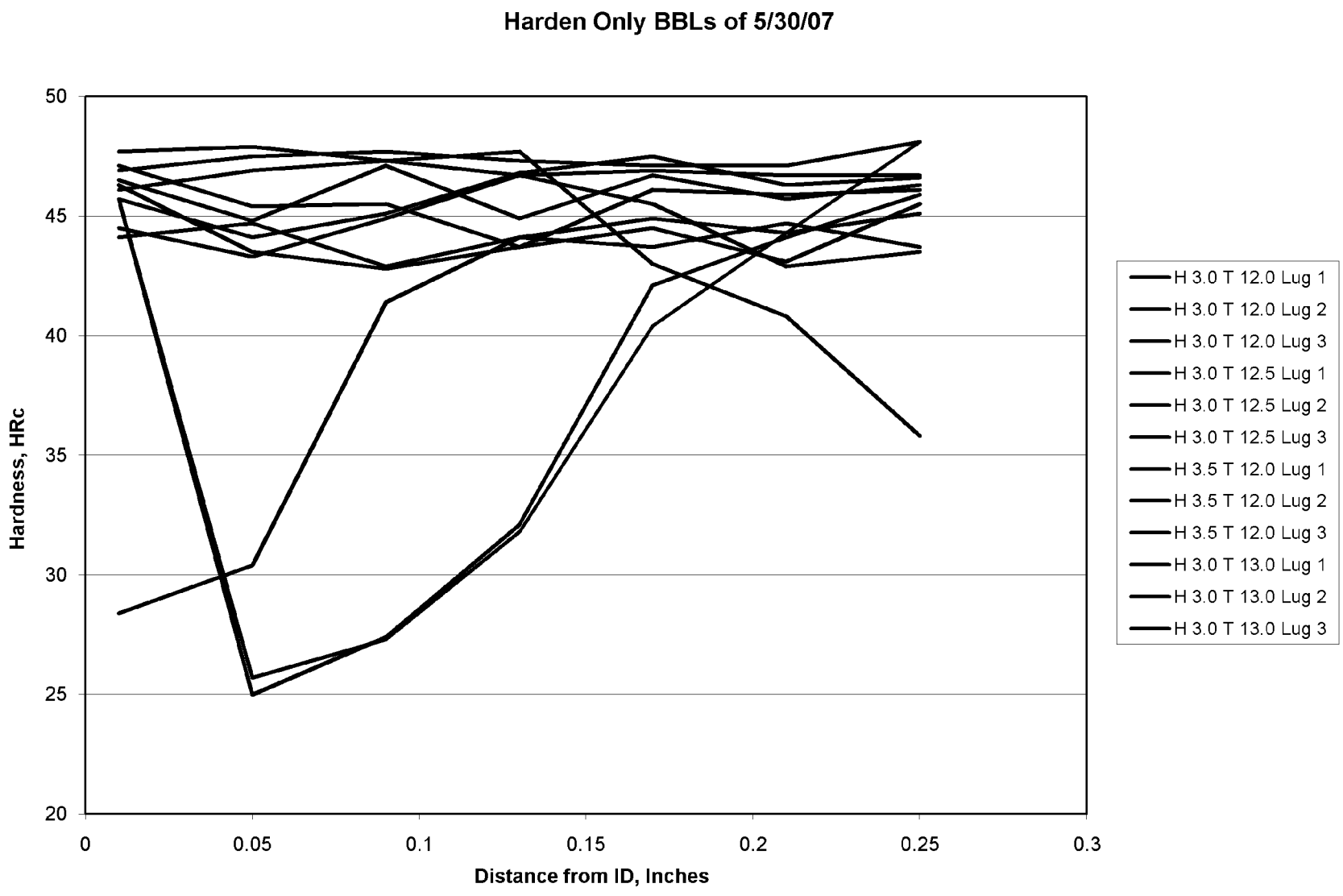
	A	B	C	D	E	F
1						
2						
3		A1	300 Win Mag	71378664	2021	Sectioned BBL
4		A2	300 Win Mag	71378765	2021	
5		A3	300 Win Mag	71378946	1021	gouged firing pin
6		A4	300 Win Mag	71378961	1021	
7		A5	300 Win Mag	71378967	521	
8		A6	300 Win Mag	71378751	521	
9		A7	300 Win Mag	71378790	101	Extended Proof
10		A8	300 Win Mag	71378795	1	
11		A9	300 Win Mag	71378962	1	High Pressure
12		A10	300 Win Mag	71378963	1	
13		B1	30-06 Springfield	71378563	2021	Sectioned BBL
14		B2	30-06 Springfield	71378643	2021	
15		B3	30-06 Springfield	71378645	1021	
16		B4	30-06 Springfield	71378789	1021	
17		B5	30-06 Springfield	71378951	521	
18		B6	30-06 Springfield	71378741	521	
19		B7	30-06 Springfield	71378763	1+	10,000 drycycle
20		B8	30-06 Springfield	71378768	201	Hot and Cold test gun
21		B9	30-06 Springfield	71378856	1	
22		B10	30-06 Springfield	71378960	1	
23		C1	243 Youth	71378661	2021	Sectioned BBL
24		C2	243 Youth	71378750	2021	
25		C3	243 Youth	71378778	1021	
26		C4	243 Youth	71378875	1021	
27		C5	243 Youth	71378965	521	
28		C6	243 Youth	71378780	521	
29		C7	243 Youth	71378796	0	Old Vintage FP Head
30		C8	243 Youth	71378878	201	Hot and Cold test gun

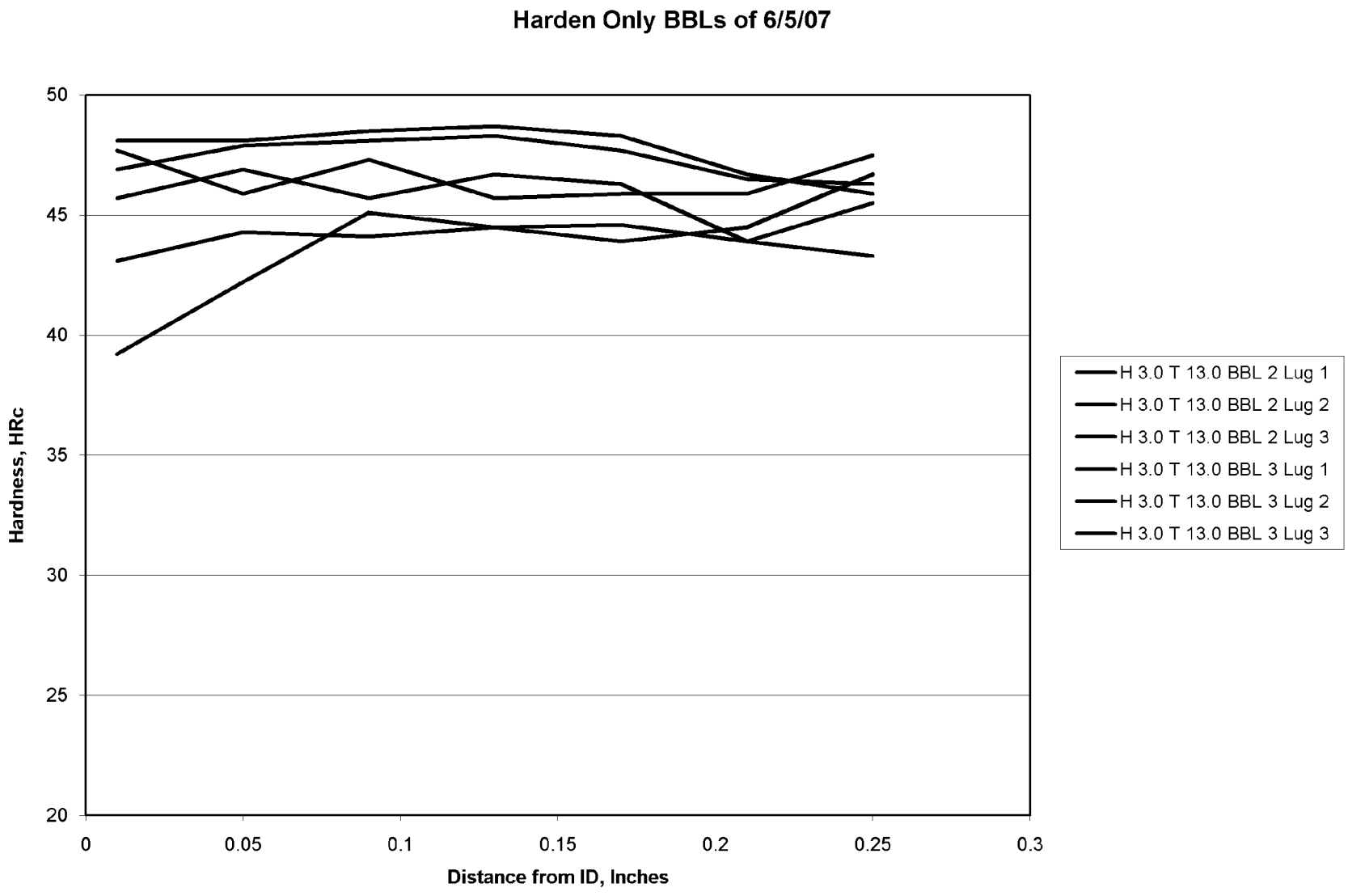
	A	B	C	D	E	F
31		D1	7mm Rem Mag	71380501	1001	Chamfered Mag Follower
32		D2	7mm Rem Mag	71384667	501	Chamfered Mag Follower
33		D3	7mm Rem Mag	71384729	120	
34		D4	7mm Rem Mag	71385284	120	
35		D5	7mm Rem Mag	71385225	121	
36		E1	270 Win	71390508	1001	Chamfered Mag Follower
37		E2	270 Win	71384790	501	Chamfered Mag Follower
38		E3	270 Win	71384941	119	
39		E4	270 Win	71385409	122	
40		E5	270 Win	71386441	122	

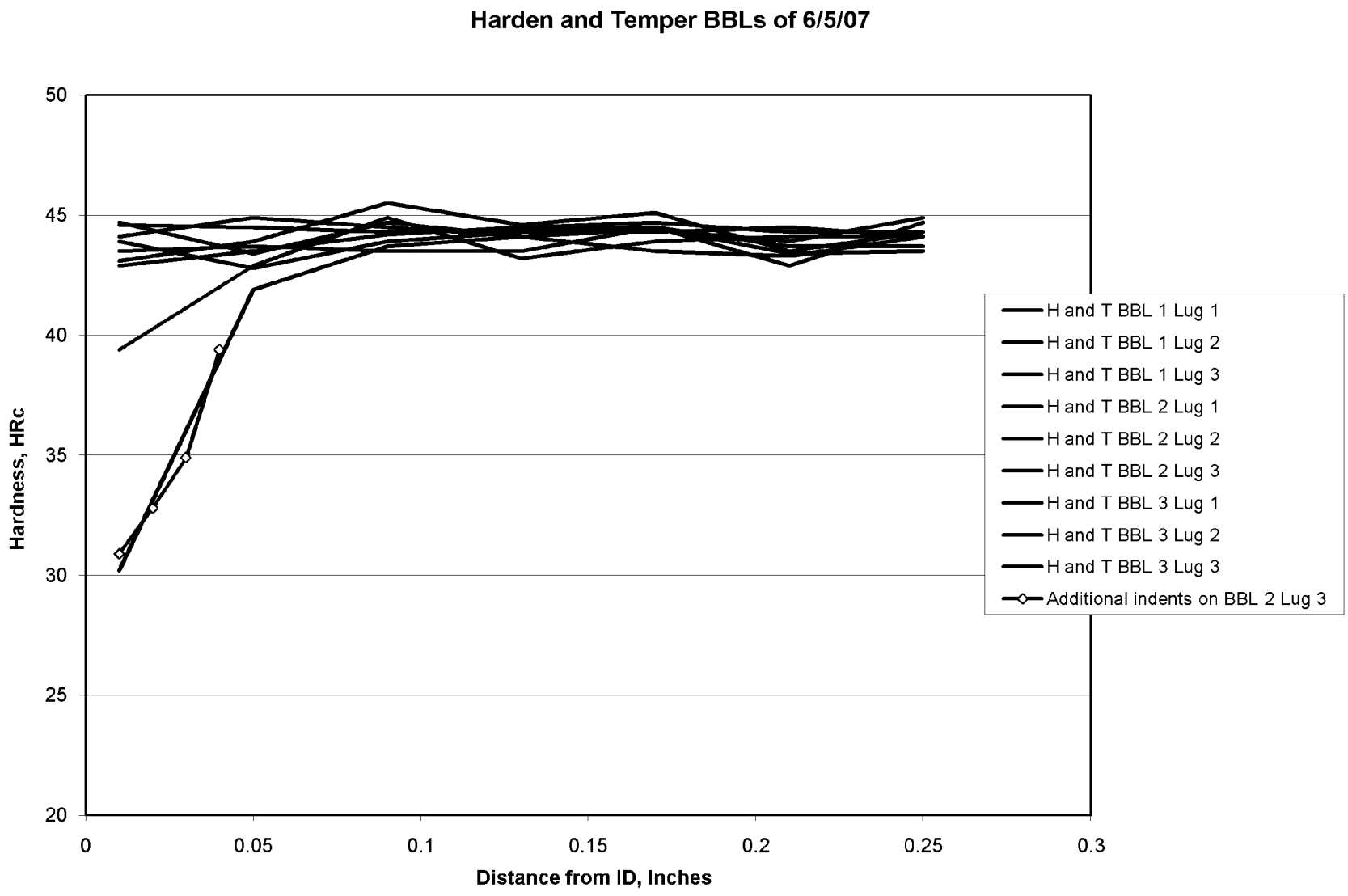
	A	B	C	D	E	F
1						
2						
3			H 3.0 T 12.0 Lug 1	H 3.0 T 12.0 Lug 2	H 3.0 T 12.0 Lug 3	H 3.0 T 12.5 Lug 1
4						
5		0.01	47.1	28.4	45.7	45.7
6		0.05	45.4	30.4	44.1	25
7		0.09	45.5	41.4	45.1	27.4
8		0.13	43.7	44.1	46.8	32.1
9		0.17	44.5	44.9	47.5	42.1
10		0.21	43.1	44.3	46.3	44.1
11		0.25	45.5	48.1	46.6	45.9
12						
13						
14						
15						
16			6/8/2007	Two Barrel Hardened Only H 3.0 T 13.0		
17			H 3.0 T 13.0 BBL 2 Lug 1	H 3.0 T 13.0 BBL 2 Lug 2	H 3.0 T 13.0 BBL 2 Lug 3	H 3.0 T 13.0 BBL 3 Lug 1
18		Mount	7055			7056
19		Lug	1	2	3	1
20		Location				
21		0.01	47.7	48.1	39.2	43.1
22		0.05	45.9	48.1	42.2	44.3
23		0.09	47.3	48.5	45.1	44.1
24		0.13	45.7	48.7	44.5	44.5
25		0.17	45.9	48.3	44.6	43.9
26		0.21	45.9	46.7	43.9	44.5
27		0.25	47.5	45.9	45.5	46.7
28						
29			6/8/2007	Three Barrels Hardened H 3.0 T 13.0 and Tempered H 2.4 T 3.18		
30			H and T BBL 1 Lug 1	H and T BBL 1 Lug 2	H and T BBL 1 Lug 3	H and T BBL 2 Lug 1
31		Mount	7057			7058
32		Lug	1	2	3	1
33		Location				
34		0.01	42.9	44.1	44.6	43.9
35		0.05	43.5	44.9	44.5	42.8
36		0.09	44.2	44.5	44.3	43.9
37		0.13	44.5	44.1	44.4	44.3
38		0.17	44.7	44.4	44.5	44.3
39		0.21	44.3	43.9	43.4	44.5
40		0.25	44.3	44.9	43.5	44.1
41						
42						

	G	H	I	J	K	L	M	N
1								
2								
3	H 3.0 T 12.5 Lug 2	H 3.0 T 12.5 Lug 3	H 3.5 T 12.0 Lug 1	H 3.5 T 12.0 Lug 2	H 3.5 T 12.0 Lug 3	H 3.0 T 13.0 Lug 1	H 3.0 T 13.0 Lug 2	H 3.0 T 13.0 Lug 3
4								
5	46.1	46.9	47.7	44.5	45.7	46.5	46.3	44.1
6	46.9	47.5	47.9	43.3	25.7	44.8	43.5	44.7
7	47.3	47.7	47.3	44.9	27.3	47.1	42.8	42.9
8	47.7	47.3	46.7	46.7	31.8	44.9	43.7	44.1
9	43	47.1	45.5	46.9	40.4	46.7	46.1	43.7
10	40.8	47.1	42.9	46.7	44.3	45.7	45.9	44.7
11	35.8	48.1	43.5	46.7	45.1	46.3	46.1	43.7
12								
13								
14								
15								
16								
17	H 3.0 T 13.0 BBL 3 Lug 2	H 3.0 T 13.0 BBL 3 Lug 3						
18								
19	2	3						
20								
21	45.7	46.9						
22	46.9	47.9						
23	45.7	48.1						
24	46.7	48.3						
25	46.3	47.7						
26	43.9	46.5						
27	43.3	46.3						
28								
29								
30	H and T BBL 2 Lug 2	H and T BBL 2 Lug 3	H and T BBL 3 Lug 1	H and T BBL 3 Lug 2	H and T BBL 3 Lug 3			
31			7059					
32	2	3	1	2	3			
33								
34	43.1	30.2	39.4	44.7	43.5			
35	43.9	41.9	42.9	43.4	43.7			
36	45.5	43.7	44.9	44.7	43.5			
37	44.6	44.1	43.2	44.1	43.5			
38	45.1	43.5	43.9	44.5	44.5			
39	43.5	43.3	44.1	42.9	43.7			
40	44.3	44.1	44.1	44.7	43.7			
41								
42								

	A	B	C	D	E	F
43		Additional indents on BBL 2 Lug 3				
44						
45		0.01	30.9			
46		0.02	32.8			
47		0.03	34.9			
48		0.04	39.4			


Harden Only BBLs of 5/30/07
Hardness, HRc
50
45
40
35
30
25
20
0
0.05
0.1
0.15
0.2
0.25
0.3
Distance from ID, Inches
H 3.0 T 12.0 Lug 1
H 3.0 T 12.0 Lug 2
H 3.0 T 12.0 Lug 3
H 3.0 T 12.5 Lug 1
H 3.0 T 12.5 Lug 2
H 3.0 T 12.5 Lug 3
H 3.5 T 12.0 Lug 1
H 3.5 T 12.0 Lug 2
H 3.5 T 12.0 Lug 3
H 3.0 T 13.0 Lug 1
H 3.0 T 13.0 Lug 2
H 3.0 T 13.0 Lug 3


Harden Only BBLs of 6/5/07
Hardness, HRc
50
45
40
35
30
25
20
0
0.05
0.1
0.15
0.2
0.25
0.3
Distance from ID, Inches
H 3.0 T 13.0 BBL 2 Lug 1
H 3.0 T 13.0 BBL 2 Lug 2
H 3.0 T 13.0 BBL 2 Lug 3
H 3.0 T 13.0 BBL 3 Lug 1
H 3.0 T 13.0 BBL 3 Lug 2
H 3.0 T 13.0 BBL 3 Lug 3


Harden and Temper BBLs of 6/5/07
Hardness, HRc
50
45
40
35
30
25
20
0
0.05
0.1
0.15
0.2
0.25
0.3
Distance from ID, Inches
H and T BBL 1 Lug 1
H and T BBL 1 Lug 2
H and T BBL 1 Lug 3
H and T BBL 2 Lug 1
H and T BBL 2 Lug 2
H and T BBL 2 Lug 3
H and T BBL 3 Lug 1
H and T BBL 3 Lug 2
H and T BBL 3 Lug 3
Additional indents on BBL 2 Lug 3

Non-Printable File

File Name: Thumbs.db

Engineer:	James Urbon
Project #:	
TLW #:	2305
Date Submitted:	6/26/2007
Requested Completion Date:	7/6/2007
Completion Date Justification:	
Test Description:	T&P test of Stainless Steel Barreled M/770 rifles.

Test Procedure:

- Any questions should be directed to James Urbon. If any clarification is required, please ask don't assume.
- Record all test progress and data on a Daily Log Sheet and in this TLW.
- Label rifles (All)
  - Label with the standard information; serial number, model number, TLW number, and Test ID number
  - Label the 300 Win Mag rifles with ID #'s A1, A2, etc.
  - Label the 30-06 rifles with ID #'s B1, B2, etc.
  - Label the 243 Win Youth rifles with ID #'s C1, C2, etc.
- Initial Measurement and Inspection. (All)
  - Generally visually inspect the overall condition of all of the rifles. Note and photograph any anomalies.
  - Measure the trigger pull on all of the rifles using the Dvorak.
  - Perform a safety function test on all of the rifles.
  - Measure the depth of the front take down screw hole located in the barrel on all of the rifles.
  - For rifles A1 – A3, B1 – B3, and C1 – C3, Measure the chamber dimension via chamber cast. Measure the bore and groove dimensions using best method available. Measure twist rate using best method available.
- Head Space / Proof / Head Space (All)
  - Measure and record headspace using chamber shoulder head space gauges.
  - Fire one standard proof cartridge per rifle in controlled environment via lanyard.
  - Measure and record headspace using chamber shoulder head space gauges following proof test.
- Extended Proof (A7)
  - Fire 100 standard proof cartridges in rifle A7.
  - Measure and record the head space using chamber shoulder head space gauges after every round for the first 10 rounds, then after every 5 rounds until round level 50 and then after every 10 rounds until the end of the test.
- Hi-Pressure:
  - Shoot 3 rds @ 60gr / 65gr & 1 @ 70gr > determine final load @ 120kpsi. >1 Aug 07
  - Fire 1 @ 71.5gr (120kpsi) 2 Aug 07 fired round. Gun: 300WM / A9 - 71378962
  - Video loc: Etownadc1/HighSpeedVideo/Tlw2305

39	**Special Requirements:**	
44	**Supplies Availability:**	
49	**Results Required:**	Formal Report
51	******This section to be completed by Test Lab Manager*****	
53	**Assigned To:**	Sims, Jonathan
53	**Start Date:**	
55	**Assigned Date:**	6/28/2007
55	**Completion Date:**	
57	**Comments:**	

	O	P	Q	R	S	T	U	V	W
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									
51								Data Only	
52								Formal Report	
53									
54									
55									
56									
57									
58									
59									
60									
61									

- Accuracy (A1-6, B1-6, C1-6)
  - Clean and inspect each rifle prior to testing.
  - Shoot at a minimum five shoot to sight in and foul the rifle. Fire additional shots if required to sight in the rifle. Record the exact number of rounds fired.
  - Fire 3 five shot groups for each rifle at 100 yards.
  - Keep track of and mark the placement of each shot in each group. Number the shots in each group 1 – 5 in the order in which they were fired.
  - Measure and record the three shot group size in each group using shots 1 – 3.
  - Measure and record the five shot group size in each group using all five shots fired.
  - All groups are to be measured center to center.
  - Clean and inspect each rifle after completion of testing.
- Endurance (A1-6, B1-6, C1-6)
  - In each series, the guns are to be fired to the following round levels.
    - Guns 1 & 2 to 2000 RL.
    - Guns 3 & 4 to 1000 RL.
    - Guns 5 & 6 to 500 RL.
  - All guns are to be cooled to the touch every 20 rounds via shop air.
  - All guns are to be cleaned and inspected every 500 rounds.
- Metallurgical Evaluation
  - A sample of the endurance guns will be disassembled and have there barrels sectioned and mounted to check for possible barrel cracking and locking lug hardness.
- Environmental Testing (A8, B8)
  - Perform standard Hot test..
  - Perform standard Cold test.
  - Perform standard Thermal Cycle test.
- Dry Cycle (B7)
  - Dry cycle gun 10,000 cycles.
  - Lubricate gun every 500 cycles.
  - Photograph any where every 1000 cycles.
- High Pressure Abuse (A9)
  - Perform standard high pressure abuse test.
    - See S. Franz / J. Urbon for details.

Model 770 Stainless Steel Trial and Pilot Testing Summary

Caliber	300 Win Mag										30-06										243 Youth							
Serial #	71378664	71378765	71378946	71378961	71378967	71378751	71378790	71378795	71378962	71378963	71378563	71378643	71378645	71378789	71378951	71378741	71378763	71378768	71378856	71378960	71378661	71378750	71378778	71378875	71378965	71378780	71378796	71378878
Test Discription \ Gun ID #	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	C1	C2	C3	C4	C5	C6	C7	C8
Visual Inspection	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O [1]	O	O	O	O	O	O	O [1]	O
Trigger Pull	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Safety Function	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Front take down screw hole depth	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Chamber and Bore Dimensions	O	O	O								O	O	O								O	O	O					
HS - Proof - HS	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	CX	O
Extended Proof							O																					
Accuracy	O	O	O	O	O	O					O	O	O	O	O	O					O	O	O	O	O	O		
Endurance to 500 RL	O	O	O	O	O	O					O	O	O	O	O	O					O	O	O	O	O	O		
Endurance to 1000 RL	O	O	O	O							O	O	O	O							O	O	O	O				
Endurance to 2000 RL	O	O									O	O									O	O						
Hot Function																		O										O
Cold Function																		O										O
Thremal Cycle																		CX										CX
Metallurgical Evaulation of Barrel	O										O										O							
Dry Cycle																	O											
High Pressure Abuse									O																			
Final Round Level	2021	2021	1021	1021	521	521	101	1	1 [2]	1	2021	2021	1021	1021	521	521	1 [3]	201	1	1	2021	2021	1021	1021	521	521	0	201

Notes

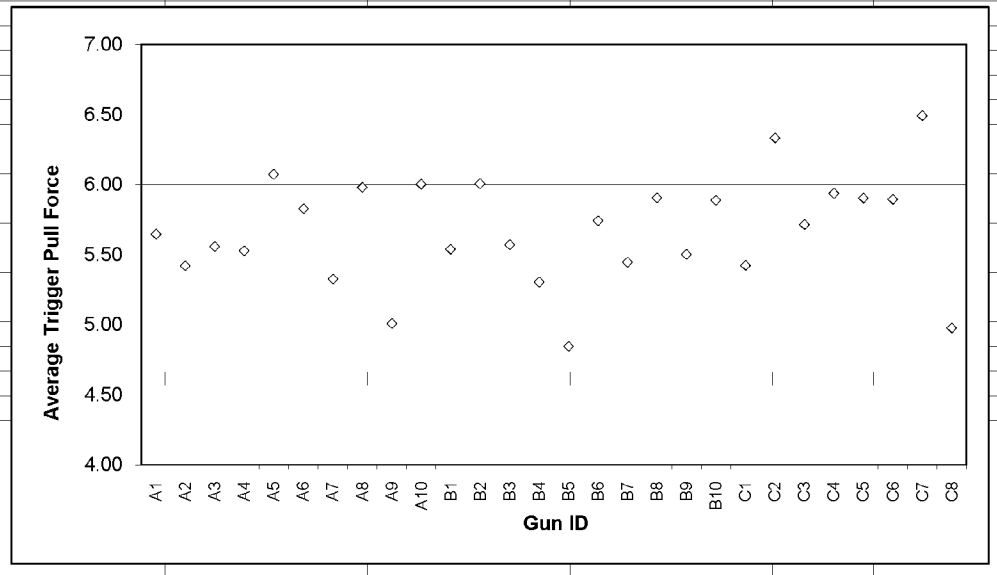
1 Bolt difficult to close
2 Plus additional rounds fired during high pressure abuse
3 Plus an additional 10,000 dry cycles

LEGEND

O = Planned
O = In-Progress
O = Completed & Passed
O = Completed Failed
CX = Cancelled
= Not Planned

	A	B	C	D	E	F	G
1							
2							
3		Gun ID	Serial #	Cal	Visual Inspection	Safety Fcn Check	Hole Depth
4		A1	71378664	300 Win Mag	OK	OK	0.136
5		A2	71378765	300 Win Mag	OK	OK	0.138
6		A3	71378946	300 Win Mag	OK	OK	0.137
7		A4	71378961	300 Win Mag	OK	OK	0.139
8		A5	71378967	300 Win Mag	OK	OK	0.138
9		A6	71378751	300 Win Mag	OK	OK	0.135
10		A7	71378790	300 Win Mag	OK	OK	0.14
11		A8	71378795	300 Win Mag	OK	OK	0.142
12		A9	71378962	300 Win Mag	OK	OK	0.139
13		A10	71378963	300 Win Mag	OK	OK	0.14
14		B1	71378563	30-06	OK	OK	0.222
15		B2	71378643	30-06	OK	OK	0.222
16		B3	71378645	30-06	OK	OK	0.22
17		B4	71378789	30-06	OK	OK	0.223
18		B5	71378951	30-06	OK	OK	0.22
19		B6	71378741	30-06	OK	OK	0.221
20		B7	71378763	30-06	OK	OK	0.227
21		B8	71378768	30-06	OK	OK	0.224
22		B9	71378856	30-06	OK	OK	0.224
23		B10	71378960	30-06	Bolt diff to close	OK	0.219
24		C1	71378661	243 Youth	OK	OK	0.22
25		C2	71378750	243 Youth	OK	OK	0.217
26		C3	71378778	243 Youth	OK	OK	0.217
27		C4	71378875	243 Youth	OK	OK	0.222
28		C5	71378965	243 Youth	OK	OK	0.219
29		C6	71378780	243 Youth	OK	OK	0.216
30		C7	71378796	243 Youth	Old Vint FP Head	OK	0.213
31		C8	71378878	243 Youth	OK	OK	0.219

				Trigger Pull					
			Gun ID	#1	#2	#3	#4	#5	Avg
			A1	5.509	5.837	5.588	5.569	5.719	5.64
			A2	5.248	5.706	4.986	5.607	5.552	5.42
			A3	4.909	5.123	6.217	5.756	5.777	5.56
			A4	5.709	5.58	5.494	5.443	5.415	5.53
			A5	6.15	6.059	6.075	6.029	6.047	6.07
			A6	5.917	5.964	5.872	5.712	5.676	5.83
			A7	5.393	5.463	5.262	5.308	5.202	5.33
			A8	5.842	5.842	6.736	5.75	5.724	5.98
			A9	5.064	4.911	4.824	5.042	5.204	5.01
			A10	6.147	6.25	6.05	5.853	5.72	6.00
			B1	5.542	5.749	5.501	5.466	5.43	5.54
			B2	6.091	6.142	6.02	5.945	5.836	6.01
			B3	5.447	5.712	5.627	5.444	5.618	5.57
			B4	5.435	5.272	5.21	5.333	5.281	5.31
			B5	4.8	4.798	5.02	4.628	4.977	4.84
			B6	5.86	5.829	5.936	5.637	5.447	5.74
			B7	5.528	5.604	5.484	5.28	5.348	5.45
			B8	5.977	6.161	5.929	5.958	5.508	5.91
			B9	5.612	5.501	5.48	5.52	5.39	5.50
			B10	5.972	5.761	6.269	5.672	5.772	5.89
			C1	5.164	5.729	5.642	5.122	5.462	5.42
			C2	6.322	6.505	6.345	6.226	6.272	6.33
			C3	5.869	5.678	5.658	5.542	5.836	5.72
			C4	6.067	5.997	5.939	5.912	5.767	5.94
			C5	5.974	5.95	5.926	5.784	5.88	5.90
			C6	5.92	5.623	5.855	5.685	6.398	5.90
			C7	6.791	6.315	6.279	6.583	6.49	6.49
			C8	5.007	4.893	5.031	4.909	5.04	4.98
									5.67


7.00
6.50
6.00
5.50
5.00
4.50
4.00
Average Trigger Pull Force
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
B1
B2
B3
B4
B5
B6
B7
B8
B9
B10
C1
C2
C3
C4
C5
C6
C7
C8
Gun ID

	A	B	C	D	E	F	G	H
1								
2								
3								
4								
5								
6								
7								
8								
9			Chamber Castings					
10			Note: + Guages were utilized to measure the bore dia.					
11								
12						A-1	A-2	A-3
13			A	0.4901	0.4916	0.4932	0.4922	0.493
14			B			0.5157	0.5164	0.5148
15			C			0.5459	0.5451	0.5459
16			D			0.3442	0.3438	0.3436
17			E			0.3432	0.3428	0.3428
18			F			0.3172	0.3175	0.3139
19			G			0.3093	0.3095	0.3102
20			H			0.3	0.3	0.3
21			Twist Rate			1:10"	1:10"	1:10"
22								
23								
24								
25								
26						B-1	B-2	B-3
27						0.4456	0.4453	0.4453
28						0.4725	0.474	0.4704
29						0.3432	0.3428	0.3431
30						0.3107	0.3105	0.3108
31						0.3074	0.3097	0.31
32						0.3	0.3	0.3
33								
34								
35						1:10"	1:10"	1:10"
36								
37								
38								
39								
40						C-1	C-2	C-3
41						0.457	0.4571	0.4577
42				0.4714	0.4734	0.4638	0.472	0.4736
43				0.277	0.279	0.2789	0.2783	0.2794
44						0.2413	0.2447	0.2444
45						0.2435	0.244	0.2433
46						0.237	0.237	0.237
47								
48								
49						1:9"	1:9"	1:9"

	A	B	C	D	E	F	G	H
1								
2								
3		Gun ID	Serial #	Cal	Head Space before Proof	Head Space after Proof	Head Space Growth	Condition of Proof Case
4		A1	71378664	300 Win Mag	0.005	0.005	0	O.K.
5		A2	71378765	300 Win Mag	0.005	0.006	0.001	O.K.
6		A3	71378946	300 Win Mag	0.005	0.006	0.001	O.K.
7		A4	71378961	300 Win Mag	0.005	0.006	0.001	O.K.
8		A5	71378967	300 Win Mag	0.005	0.005	0	O.K.
9		A6	71378751	300 Win Mag	0.005	0.005	0	O.K.
10		A7	71378790	300 Win Mag	0.005	0.006	0.001	O.K.
11		A8	71378795	300 Win Mag	0.006	0.006	0	O.K.
12		A9	71378962	300 Win Mag	0.005	0.005	0	O.K.
13		A10	71378963	300 Win Mag	0.005	0.006	0.001	O.K.
14		B1	71378563	30-06	0.003	0.004	0.001	O.K.
15		B2	71378643	30-06	0.003	0.003	0	O.K.
16		B3	71378645	30-06	0.003	0.004	0.001	O.K.
17		B4	71378789	30-06	0.004	0.004	0	O.K.
18		B5	71378951	30-06	0.004	0.004	0	O.K.
19		B6	71378741	30-06	0.002	0.002	0	O.K.
20		B7	71378763	30-06	0.002	0.002	0	O.K.
21		B8	71378768	30-06	0.002	0.002	0	O.K.
22		B9	71378856	30-06	0.002	0.002	0	O.K.
23		B10	71378960	30-06	Min.	0.002	0.002	O.K.
24		C1	71378661	243 Youth	0.003	0.003	0	O.K.
25		C2	71378750	243 Youth	0.003	0.003	0	O.K.
26		C3	71378778	243 Youth	0.003	0.003	0	O.K.
27		C4	71378875	243 Youth	0.003	0.003	0	O.K.
28		C5	71378965	243 Youth	0.003	0.003	0	O.K.
29		C6	71378780	243 Youth	0.004	0.004	0	O.K.
30		C7	71378796	243 Youth	Out of test	Out of test	Out of test	Out of test
31		C8	71378878	243 Youth	0.003	0.003	0	O.K.

	A	B	C	D
1				
2				
3				
4		**Extended Proof**		
5				
6		**Gun I.D.**	A-7(.300Win.Mag.)	
7				
8		1	0.006	
9		2	0.006	
10		3	0.006	
11		4	0.006	
12		5	0.006	
13		6	0.006	
14		7	0.006	
15		8	0.006	
16		9	0.006	
17		10	0.006	
18		15	0.006	
19		20	0.006	
20		25	0.006	
21		30	0.006	
22		35	0.006	
23		40	0.006	
24		45	0.006	
25		50	0.006	
26		60	0.007	
27		70	0.007	
28		80	0.007	
29		90	0.007	
30		100	0.007	

	A	B	C	D	E	F	G	H	I	J
1										
2	Shooter: B. Lee									
3	Date: 25,26Jul07									
4	Test Activity: Cold, Hot Testing									
5										
6	Cold Test									
7	Task: Given two firearms(B-8,.30.06; C-8,.243 youth), Said firearms were placed in -20.0F for 24 hrs. prior									
8	to test. After 24hrs. Of exposure to temperature, 20rds. Was fired through each firearm @ 2 hr. intervals,									
9	shooting a total of 100 rds. Through each firearm.									
10										
11	Hot Test									
12	Task: Given two firearms(B-8,.30.06; C-8,.243 youth), Said firearms were placed in 120.2F for 24 hrs. prior									
13	to test. After 24hrs. Of exposure to temperature, 20rds. Was fired through each firearm @ 2 hr. intervals,									
14	shooting a total of 100 rds. Through each firearm.									
15										
16										
17	Note: 1 misfire was recorded on B8 rd. 22 of Cold Test.									

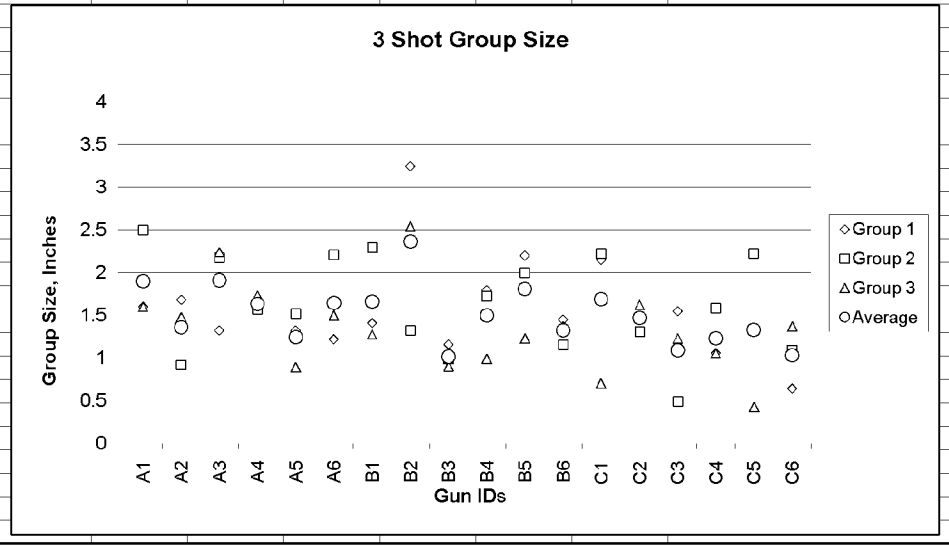
Shooter: J. Sims

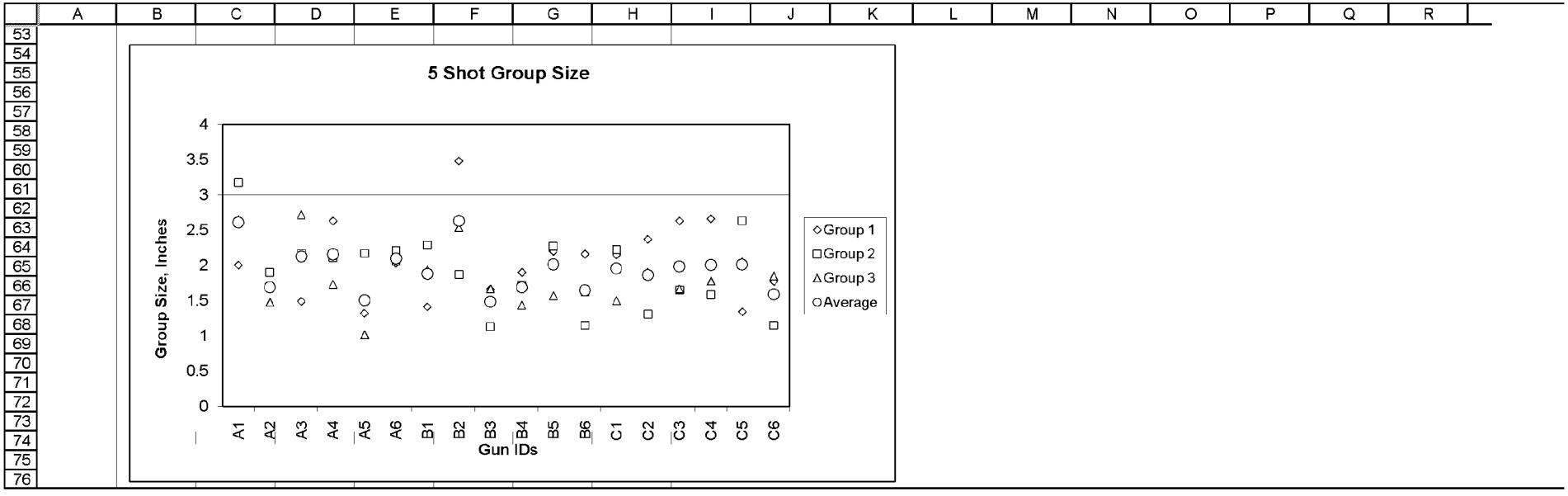
Note: Accuracy was shot at 100yds. From bench, utilizing standard 3 X 9 Bushnell scope provided with firearr

Ammo type. R300W2, R30065, R243W3

*A1 was not recorded with Oehler, measured grps. From paper target.

	3 shot groups				5 shot groups			
	Group 1	Group 2	Group 3	Average	Group 1	Group 2	Group 3	Average
A1	1.6	2.5	1.6	1.90	2	3.175	2.65	2.61
A2	1.68	0.92	1.48	1.36	1.68	1.9	1.48	1.69
A3	1.32	2.17	2.24	1.91	1.49	2.17	2.72	2.13
A4	1.6	1.57	1.73	1.63	2.63	2.11	1.73	2.16
A5	1.32	1.52	0.89	1.24	1.32	2.17	1.02	1.50
A6	1.22	2.21	1.5	1.64	2.03	2.21	2.06	2.10
B1	1.41	2.29	1.28	1.66	1.41	2.29	1.94	1.88
B2	3.24	1.32	2.54	2.37	3.48	1.87	2.54	2.63
B3	1.16	0.99	0.9	1.02	1.66	1.13	1.67	1.49
B4	1.79	1.72	0.99	1.50	1.9	1.72	1.44	1.69
B5	2.2	2	1.23	1.81	2.2	2.27	1.57	2.01
B6	1.45	1.15	1.37	1.32	2.16	1.15	1.63	1.65
C1	2.15	2.22	0.7	1.69	2.15	2.22	1.5	1.96
C2	1.47	1.31	1.62	1.47	2.37	1.31	1.9	1.86
C3	1.55	0.49	1.23	1.09	2.63	1.65	1.67	1.98
C4	1.05	1.58	1.06	1.23	2.66	1.58	1.78	2.01
C5	1.34	2.22	0.43	1.33	1.34	2.63	2.06	2.01
C6	0.64	1.09	1.37	1.03	1.77	1.15	1.85	1.59
				1.51				1.94



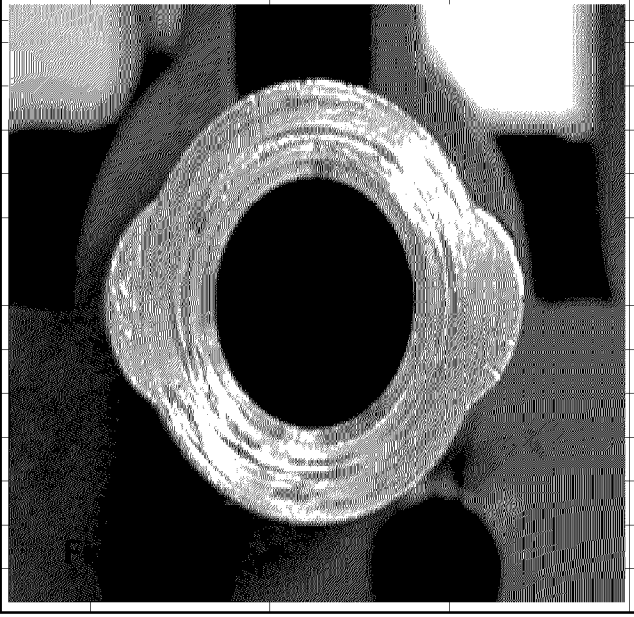

5 Shot Group Size
Group Size, Inches
4
3.5
3
2.5
2
1.5
1
0.5
0
A1
A2
A3
A4
A5
A6
B1
B2
B3
B4
B5
B6
C1
C2
C3
C4
C5
C6
Gun IDs
Group 1
Group 2
Group 3
Average

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1																					
2																					
3																					
4		Clean and Inspect Summary																			
5			A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6	
6		Before Test	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	
7		500 RL	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	
8		1000 RL	OK	OK	OK	OK			OK	OK	OK	OK			OK	OK	OK	OK			
9		1500 RL	OK	OK					OK	OK					OK	OK					
10		2000 RL	OK	OK					OK	OK					OK	OK					
11																					
12																					
13																					
14		Malfunction Summary																			
15			A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6	
16		500 RL	0	1*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17		1000 RL	0	0	2**	0			0	0	0	0			0	0	0	0			
18		1500 RL	0	0					0	0					0	0					
19		2000 RL	0	0					0	0					0	0					
20		* Fail to Eject on round 315																			
21		**A3-Bolt/Sear Bound on rounds 638,697. Trigger got heavy few rounds prior to malfunction, then no fire.																			

A-3 Firing Pin would bind up occasionally during livefire testing.

Upon disassembly & inspection it was determined that a piece of debri (most likely a metal chip) must have been lodged between the firing

This gouged into the firing pin as shown in Figures B & C and restricted the proper movment of the pin during livefire testing.



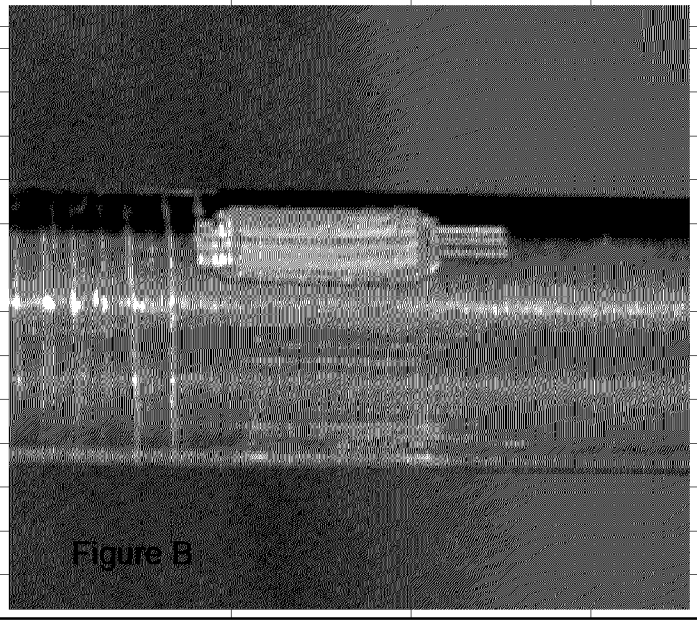


Figure B

	T	U	V	W	X	Y	Z
1							
2							
3							
4	in, bolt plug and main spring.						
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
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22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1																			
2																			
3		Test Gun ID																	
4	Round Level	A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6
5	1																		
6	2																		
7	3																		
8	4																		
9	5																		
10	6																		
11	7																		
12	8																		
13	9																		
14	10																		
15	11																		
16	12																		
17	13																		
18	14																		
19	15																		
20	16																		
21	17																		
22	18																		
23	19																		
24	20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	21																		
26	22																		
27	23																		
28	24																		
29	25																		
30	26																		
31	27																		
32	28																		
33	29																		
34	30																		
35	31																		
36	32																		
37	33																		
38	34																		
39	35																		
40	36																		
41	37																		
42	38																		
43	39																		
44	40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
45	41																		
46	42																		
47	43																		
48	44																		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
49	45																		
50	46																		
51	47																		
52	48																		
53	49																		
54	50																		
55	51																		
56	52																		
57	53																		
58	54																		
59	55																		
60	56																		
61	57																		
62	58																		
63	59																		
64	60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
65	61																		
66	62																		
67	63																		
68	64																		
69	65																		
70	66																		
71	67																		
72	68																		
73	69																		
74	70																		
75	71																		
76	72																		
77	73																		
78	74																		
79	75																		
80	76																		
81	77																		
82	78																		
83	79																		
84	80	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
85	81																		
86	82																		
87	83																		
88	84																		
89	85																		
90	86																		
91	87																		
92	88																		
93	89																		
94	90																		
95	91																		
96	92																		
97	93																		
98	94																		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
99	95																		
100	96																		
101	97																		
102	98																		
103	99																		
104	100	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
105	101																		
106	102																		
107	103																		
108	104																		
109	105																		
110	106																		
111	107																		
112	108																		
113	109																		
114	110																		
115	111																		
116	112																		
117	113																		
118	114																		
119	115																		
120	116																		
121	117																		
122	118																		
123	119																		
124	120	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
125	121																		
126	122																		
127	123																		
128	124																		
129	125																		
130	126																		
131	127																		
132	128																		
133	129																		
134	130																		
135	131																		
136	132																		
137	133																		
138	134																		
139	135																		
140	136																		
141	137																		
142	138																		
143	139																		
144	140	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
145	141																		
146	142																		
147	143																		
148	144																		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
149	145																		
150	146																		
151	147																		
152	148																		
153	149																		
154	150																		
155	151																		
156	152																		
157	153																		
158	154																		
159	155																		
160	156																		
161	157																		
162	158																		
163	159																		
164	160	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
165	161																		
166	162																		
167	163																		
168	164																		
169	165																		
170	166																		
171	167																		
172	168																		
173	169																		
174	170																		
175	171																		
176	172																		
177	173																		
178	174																		
179	175																		
180	176																		
181	177																		
182	178																		
183	179																		
184	180	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
185	181																		
186	182																		
187	183																		
188	184																		
189	185																		
190	186																		
191	187																		
192	188																		
193	189																		
194	190																		
195	191																		
196	192																		
197	193																		
198	194																		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
199	195																		
200	196																		
201	197																		
202	198																		
203	199																		
204	200	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
205	201																		
206	202																		
207	203																		
208	204																		
209	205																		
210	206																		
211	207																		
212	208																		
213	209																		
214	210																		
215	211																		
216	212																		
217	213																		
218	214																		
219	215																		
220	216																		
221	217																		
222	218																		
223	219																		
224	220	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
225	221																		
226	222																		
227	223																		
228	224																		
229	225																		
230	226																		
231	227																		
232	228																		
233	229																		
234	230																		
235	231																		
236	232																		
237	233																		
238	234																		
239	235																		
240	236																		
241	237																		
242	238																		
243	239																		
244	240	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
245	241																		
246	242																		
247	243																		
248	244																		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
249	245																		
250	246																		
251	247																		
252	248																		
253	249																		
254	250																		
255	251																		
256	252																		
257	253																		
258	254																		
259	255																		
260	256																		
261	257																		
262	258																		
263	259																		
264	260	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
265	261																		
266	262																		
267	263																		
268	264																		
269	265																		
270	266																		
271	267																		
272	268																		
273	269																		
274	270																		
275	271																		
276	272																		
277	273																		
278	274																		
279	275																		
280	276																		
281	277																		
282	278																		
283	279																		
284	280	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
285	281																		
286	282																		
287	283																		
288	284																		
289	285																		
290	286																		
291	287																		
292	288																		
293	289																		
294	290																		
295	291																		
296	292																		
297	293																		
298	294																		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
299	295																		
300	296																		
301	297																		
302	298																		
303	299																		
304	300	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
305	301																		
306	302																		
307	303																		
308	304																		
309	305																		
310	306																		
311	307																		
312	308																		
313	309																		
314	310																		
315	311																		
316	312																		
317	313																		
318	314																		
319	315		FTE																
320	316																		
321	317																		
322	318																		
323	319																		
324	320	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
325	321																		
326	322																		
327	323																		
328	324																		
329	325																		
330	326																		
331	327																		
332	328																		
333	329																		
334	330																		
335	331																		
336	332																		
337	333																		
338	334																		
339	335																		
340	336																		
341	337																		
342	338																		
343	339																		
344	340	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
345	341																		
346	342																		
347	343																		
348	344																		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
349	345																		
350	346																		
351	347																		
352	348																		
353	349																		
354	350																		
355	351																		
356	352																		
357	353																		
358	354																		
359	355																		
360	356																		
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362	358																		
363	359																		
364	360	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
365	361																		
366	362																		
367	363																		
368	364																		
369	365																		
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377	373																		
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380	376																		
381	377																		
382	378																		
383	379																		
384	380	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
385	381																		
386	382																		
387	383																		
388	384																		
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397	393																		
398	394																		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
399	395																		
400	396																		
401	397																		
402	398																		
403	399																		
404	400	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
405	401																		
406	402																		
407	403																		
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417	413																		
418	414																		
419	415																		
420	416																		
421	417																		
422	418																		
423	419																		
424	420	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
425	421																		
426	422																		
427	423																		
428	424																		
429	425																		
430	426																		
431	427																		
432	428																		
433	429																		
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435	431																		
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437	433																		
438	434																		
439	435																		
440	436																		
441	437																		
442	438																		
443	439																		
444	440	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
445	441																		
446	442																		
447	443																		
448	444																		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
449	445																		
450	446																		
451	447																		
452	448																		
453	449																		
454	450																		
455	451																		
456	452																		
457	453																		
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459	455																		
460	456																		
461	457																		
462	458																		
463	459																		
464	460	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
465	461																		
466	462																		
467	463																		
468	464																		
469	465																		
470	466																		
471	467																		
472	468																		
473	469																		
474	470																		
475	471																		
476	472																		
477	473																		
478	474																		
479	475																		
480	476																		
481	477																		
482	478																		
483	479																		
484	480	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
485	481																		
486	482																		
487	483																		
488	484																		
489	485																		
490	486																		
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494	490																		
495	491																		
496	492																		
497	493																		
498	494																		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
499	495																		
500	496																		
501	497																		
502	498																		
503	499																		
504	500	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

	A	B	C	D	E	F	G	H	I	J	K	L	M
1													
2													
3		Test Gun ID											
4	Round Level	A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
5	501												
6	502												
7	503												
8	504												
9	505												
10	506												
11	507												
12	508												
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14	510												
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16	512												
17	513												
18	514												
19	515												
20	516												
21	517												
22	518												
23	519												
24	520	X	X	X	X	X	X	X	X	X	X	X	X
25	521												
26	522												
27	523												
28	524												
29	525												
30	526												
31	527												
32	528												
33	529												
34	530												
35	531												
36	532												
37	533												
38	534												
39	535												
40	536												
41	537												
42	538												
43	539												
44	540	X	X	X	X	X	X	X	X	X	X	X	X
45	541												
46	542												
47	543												
48	544												

	A	B	C	D	E	F	G	H	I	J	K	L	M
49	545												
50	546												
51	547												
52	548												
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56	552												
57	553												
58	554												
59	555												
60	556												
61	557												
62	558												
63	559												
64	560	X	X	X	X	X	X	X	X	X	X	X	X
65	561												
66	562												
67	563												
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69	565												
70	566												
71	567												
72	568												
73	569												
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75	571												
76	572												
77	573												
78	574												
79	575												
80	576												
81	577												
82	578												
83	579												
84	580	X	X	X	X	X	X	X	X	X	X	X	X
85	581												
86	582												
87	583												
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89	585												
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98	594												

	A	B	C	D	E	F	G	H	I	J	K	L	M
99	595												
100	596												
101	597												
102	598												
103	599												
104	600	X	X	X	X	X	X	X	X	X	X	X	X
105	601												
106	602												
107	603												
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110	606												
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116	612												
117	613												
118	614												
119	615												
120	616												
121	617												
122	618												
123	619												
124	620	X	X	X	X	X	X	X	X	X	X	X	X
125	621												
126	622												
127	623												
128	624												
129	625												
130	626												
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132	628												
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136	632												
137	633												
138	634												
139	635												
140	636												
141	637												
142	638			Bolt bound									
143	639												
144	640	X	X	X	X	X	X	X	X	X	X	X	X
145	641												
146	642												
147	643												
148	644												

	A	B	C	D	E	F	G	H	I	J	K	L	M
149	645												
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156	652												
157	653												
158	654												
159	655												
160	656												
161	657												
162	658												
163	659												
164	660	X	X	X	X	X	X	X	X	X	X	X	X
165	661												
166	662												
167	663												
168	664												
169	665												
170	666												
171	667												
172	668												
173	669												
174	670												
175	671												
176	672												
177	673												
178	674												
179	675												
180	676												
181	677												
182	678												
183	679												
184	680	X	X	X	X	X	X	X	X	X	X	X	X
185	681												
186	682												
187	683												
188	684												
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192	688												
193	689												
194	690												
195	691												
196	692												
197	693												
198	694												

	A	B	C	D	E	F	G	H	I	J	K	L	M
199	695												
200	696												
201	697			BOUND									
202	698												
203	699												
204	700	X	X	X	X	X	X	X	X	X	X	X	X
205	701												
206	702												
207	703												
208	704												
209	705												
210	706												
211	707												
212	708												
213	709												
214	710												
215	711												
216	712												
217	713												
218	714												
219	715												
220	716												
221	717												
222	718												
223	719												
224	720	X	X	X	X	X	X	X	X	X	X	X	X
225	721												
226	722												
227	723												
228	724												
229	725												
230	726												
231	727												
232	728												
233	729												
234	730												
235	731												
236	732												
237	733												
238	734												
239	735												
240	736												
241	737												
242	738												
243	739												
244	740	X	X	X	X	X	X	X	X	X	X	X	X
245	741												
246	742												
247	743												
248	744												

	A	B	C	D	E	F	G	H	I	J	K	L	M
249	745												
250	746												
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253	749												
254	750												
255	751												
256	752												
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258	754												
259	755												
260	756												
261	757												
262	758												
263	759												
264	760	X	X	X	X	X	X	X	X	X	X	X	X
265	761												
266	762												
267	763												
268	764												
269	765												
270	766												
271	767												
272	768												
273	769												
274	770												
275	771												
276	772												
277	773												
278	774												
279	775												
280	776												
281	777												
282	778												
283	779												
284	780	X	X	X	X	X	X	X	X	X	X	X	X
285	781												
286	782												
287	783												
288	784												
289	785												
290	786												
291	787												
292	788												
293	789												
294	790												
295	791												
296	792												
297	793												
298	794												

	A	B	C	D	E	F	G	H	I	J	K	L	M
299	795												
300	796												
301	797												
302	798												
303	799												
304	800	X	X	X	X	X	X	X	X	X	X	X	X
305	801												
306	802												
307	803												
308	804												
309	805												
310	806												
311	807												
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313	809												
314	810												
315	811												
316	812												
317	813												
318	814												
319	815												
320	816												
321	817												
322	818												
323	819												
324	820	X	X	X	X	X	X	X	X	X	X	X	X
325	821												
326	822												
327	823												
328	824												
329	825												
330	826												
331	827												
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334	830												
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336	832												
337	833												
338	834												
339	835												
340	836												
341	837												
342	838												
343	839												
344	840	X	X	X	X	X	X	X	X	X	X	X	X
345	841												
346	842												
347	843												
348	844												

	A	B	C	D	E	F	G	H	I	J	K	L	M
349	845												
350	846												
351	847												
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354	850												
355	851												
356	852												
357	853												
358	854												
359	855												
360	856												
361	857												
362	858												
363	859												
364	860	X	X	X	X	X	X	X	X	X	X	X	X
365	861												
366	862												
367	863												
368	864												
369	865												
370	866												
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374	870												
375	871												
376	872												
377	873												
378	874												
379	875												
380	876												
381	877												
382	878												
383	879												
384	880	X	X	X	X	X	X	X	X	X	X	X	X
385	881												
386	882												
387	883												
388	884												
389	885												
390	886												
391	887												
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393	889												
394	890												
395	891												
396	892												
397	893												
398	894												

	A	B	C	D	E	F	G	H	I	J	K	L	M
399	895												
400	896												
401	897												
402	898												
403	899												
404	900	X	X	X	X	X	X	X	X	X	X	X	X
405	901												
406	902												
407	903												
408	904												
409	905												
410	906												
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413	909												
414	910												
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416	912												
417	913												
418	914												
419	915												
420	916												
421	917												
422	918												
423	919												
424	920	X	X	X	X	X	X	X	X	X	X	X	X
425	921												
426	922												
427	923												
428	924												
429	925												
430	926												
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437	933												
438	934												
439	935												
440	936												
441	937												
442	938												
443	939												
444	940	X	X	X	X	X	X	X	X	X	X	X	X
445	941												
446	942												
447	943												
448	944												

	A	B	C	D	E	F	G	H	I	J	K	L	M
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450	946												
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453	949												
454	950												
455	951												
456	952												
457	953												
458	954												
459	955												
460	956												
461	957												
462	958												
463	959												
464	960	X	X	X	X	X	X	X	X	X	X	X	X
465	961												
466	962												
467	963												
468	964												
469	965												
470	966												
471	967												
472	968												
473	969												
474	970												
475	971												
476	972												
477	973												
478	974												
479	975												
480	976												
481	977												
482	978												
483	979												
484	980	X	X	X	X	X	X	X	X	X	X	X	X
485	981												
486	982												
487	983												
488	984												
489	985												
490	986												
491	987												
492	988												
493	989												
494	990												
495	991												
496	992												
497	993												
498	994												

	A	B	C	D	E	F	G	H	I	J	K	L	M
499	995												
500	996												
501	997												
502	998												
503	999												
504	1000	X	X	X	X	X	X	X	X	X	X	X	X

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1															
2															
3		Test Gun ID								Test Gun ID					
4	Round Level	A1	A2	B1	B2	C1	C2		Round Level	A1	A2	B1	B2	C1	C2
5	1001								1501						
6	1002								1502						
7	1003								1503						
8	1004								1504						
9	1005								1505						
10	1006								1506						
11	1007								1507						
12	1008								1508						
13	1009								1509						
14	1010								1510						
15	1011								1511						
16	1012								1512						
17	1013								1513						
18	1014								1514						
19	1015								1515						
20	1016								1516						
21	1017								1517						
22	1018								1518						
23	1019								1519						
24	1020	X	X	X	X	X	X		1520	X	X	X	X	X	X
25	1021								1521						
26	1022								1522						
27	1023								1523						
28	1024								1524						
29	1025								1525						
30	1026								1526						
31	1027								1527						
32	1028								1528						
33	1029								1529						
34	1030								1530						
35	1031								1531						
36	1032								1532						
37	1033								1533						
38	1034								1534						
39	1035								1535						
40	1036								1536						
41	1037								1537						
42	1038								1538						
43	1039								1539						
44	1040	X	X	X	X	X	X		1540	X	X	X	X	X	X
45	1041								1541						
46	1042								1542						
47	1043								1543						
48	1044								1544						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
49	1045								1545						
50	1046								1546						
51	1047								1547						
52	1048								1548						
53	1049								1549						
54	1050								1550						
55	1051								1551						
56	1052								1552						
57	1053								1553						
58	1054								1554						
59	1055								1555						
60	1056								1556						
61	1057								1557						
62	1058								1558						
63	1059								1559						
64	1060	X	X	X	X	X	X		1560	X	X	X	X	X	X
65	1061								1561						
66	1062								1562						
67	1063								1563						
68	1064								1564						
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72	1068								1568						
73	1069								1569						
74	1070								1570						
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76	1072								1572						
77	1073								1573						
78	1074								1574						
79	1075								1575						
80	1076								1576						
81	1077								1577						
82	1078								1578						
83	1079								1579						
84	1080	X	X	X	X	X	X		1580	X	X	X	X	X	X
85	1081								1581						
86	1082								1582						
87	1083								1583						
88	1084								1584						
89	1085								1585						
90	1086								1586						
91	1087								1587						
92	1088								1588						
93	1089								1589						
94	1090								1590						
95	1091								1591						
96	1092								1592						
97	1093								1593						
98	1094								1594						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
99	1095								1595						
100	1096								1596						
101	1097								1597						
102	1098								1598						
103	1099								1599						
104	1100	X	X	X	X	X	X		1600	X	X	X	X	X	X
105	1101								1601						
106	1102								1602						
107	1103								1603						
108	1104								1604						
109	1105								1605						
110	1106								1606						
111	1107								1607						
112	1108								1608						
113	1109								1609						
114	1110								1610						
115	1111								1611						
116	1112								1612						
117	1113								1613						
118	1114								1614						
119	1115								1615						
120	1116								1616						
121	1117								1617						
122	1118								1618						
123	1119								1619						
124	1120	X	X	X	X	X	X		1620	X	X	X	X	X	X
125	1121								1621						
126	1122								1622						
127	1123								1623						
128	1124								1624						
129	1125								1625						
130	1126								1626						
131	1127								1627						
132	1128								1628						
133	1129								1629						
134	1130								1630						
135	1131								1631						
136	1132								1632						
137	1133								1633						
138	1134								1634						
139	1135								1635						
140	1136								1636						
141	1137								1637						
142	1138								1638						
143	1139								1639						
144	1140	X	X	X	X	X	X		1640	X	X	X	X	X	X
145	1141								1641						
146	1142								1642						
147	1143								1643						
148	1144								1644						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
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150	1146								1646						
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180	1176								1676						
181	1177								1677						
182	1178								1678						
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184	1180	X	X	X	X	X	X		1680	X	X	X	X	X	X
185	1181								1681						
186	1182								1682						
187	1183								1683						
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189	1185								1685						
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192	1188								1688						
193	1189								1689						
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195	1191								1691						
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198	1194								1694						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
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200	1196								1696						
201	1197								1697						
202	1198								1698						
203	1199								1699						
204	1200	X	X	X	X	X	X		1700	X	X	X	X	X	X
205	1201								1701						
206	1202								1702						
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208	1204								1704						
209	1205								1705						
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211	1207								1707						
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226	1222								1722						
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241	1237								1737						
242	1238								1738						
243	1239								1739						
244	1240	X	X	X	X	X	X		1740	X	X	X	X	X	X
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246	1242								1742						
247	1243								1743						
248	1244								1744						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
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260	1256								1756						
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263	1259								1759						
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266	1262								1762						
267	1263								1763						
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282	1278								1778						
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
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304	1300	X	X	X	X	X	X		1800	X	X	X	X	X	X
305	1301								1801						
306	1302								1802						
307	1303								1803						
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309	1305								1805						
310	1306								1806						
311	1307								1807						
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314	1310								1810						
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316	1312								1812						
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321	1317								1817						
322	1318								1818						
323	1319								1819						
324	1320	X	X	X	X	X	X		1820	X	X	X	X	X	X
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341	1337								1837						
342	1338								1838						
343	1339								1839						
344	1340	X	X	X	X	X	X		1840	X	X	X	X	X	X
345	1341								1841						
346	1342								1842						
347	1343								1843						
348	1344								1844						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
349	1345								1845						
350	1346								1846						
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360	1356								1856						
361	1357								1857						
362	1358								1858						
363	1359								1859						
364	1360	X	X	X	X	X	X		1860	X	X	X	X	X	X
365	1361								1861						
366	1362								1862						
367	1363								1863						
368	1364								1864						
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375	1371								1871						
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378	1374								1874						
379	1375								1875						
380	1376								1876						
381	1377								1877						
382	1378								1878						
383	1379								1879						
384	1380	X	X	X	X	X	X		1880	X	X	X	X	X	X
385	1381								1881						
386	1382								1882						
387	1383								1883						
388	1384								1884						
389	1385								1885						
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
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402	1398								1898						
403	1399								1899						
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405	1401								1901						
406	1402								1902						
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422	1418								1918						
423	1419								1919						
424	1420	X	X	X	X	X	X		1920	X	X	X	X	X	X
425	1421								1921						
426	1422								1922						
427	1423								1923						
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437	1433								1933						
438	1434								1934						
439	1435								1935						
440	1436								1936						
441	1437								1937						
442	1438								1938						
443	1439								1939						
444	1440	X	X	X	X	X	X		1940	X	X	X	X	X	X
445	1441								1941						
446	1442								1942						
447	1443								1943						
448	1444								1944						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
449	1445								1945						
450	1446								1946						
451	1447								1947						
452	1448								1948						
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455	1451								1951						
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460	1456								1956						
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462	1458								1958						
463	1459								1959						
464	1460	X	X	X	X	X	X		1960	X	X	X	X	X	X
465	1461								1961						
466	1462								1962						
467	1463								1963						
468	1464								1964						
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471	1467								1967						
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479	1475								1975						
480	1476								1976						
481	1477								1977						
482	1478								1978						
483	1479								1979						
484	1480	X	X	X	X	X	X		1980	X	X	X	X	X	X
485	1481								1981						
486	1482								1982						
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488	1484								1984						
489	1485								1985						
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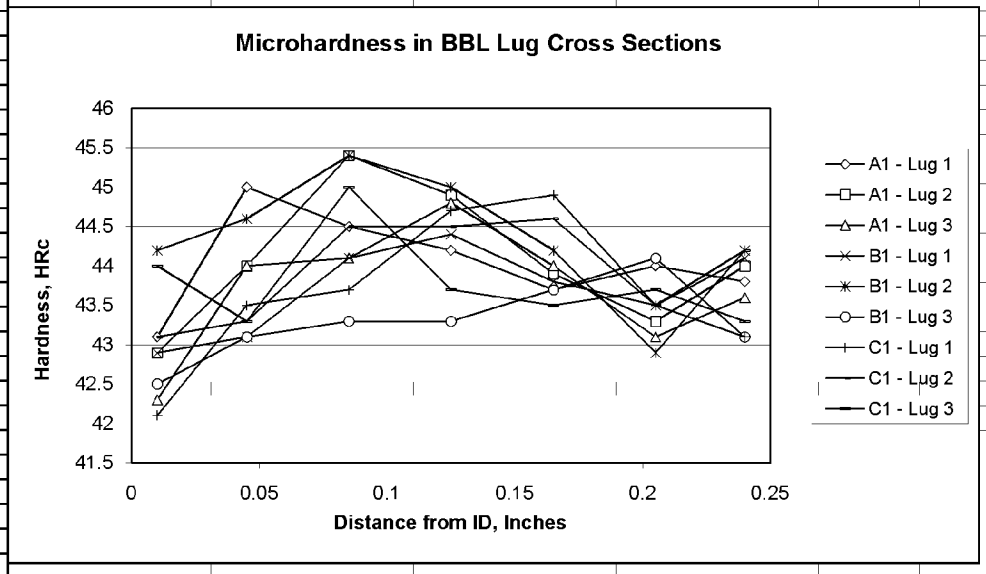
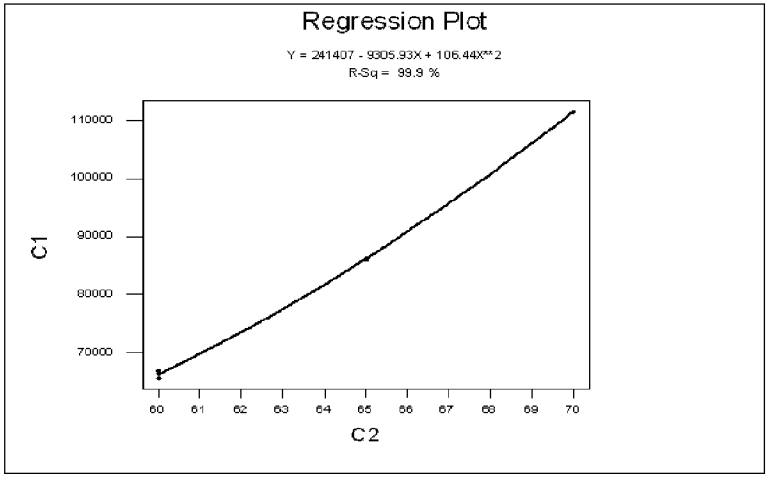
493	1489								1989						
494	1490								1990						
495	1491								1991						
496	1492								1992						
497	1493								1993						
498	1494								1994						

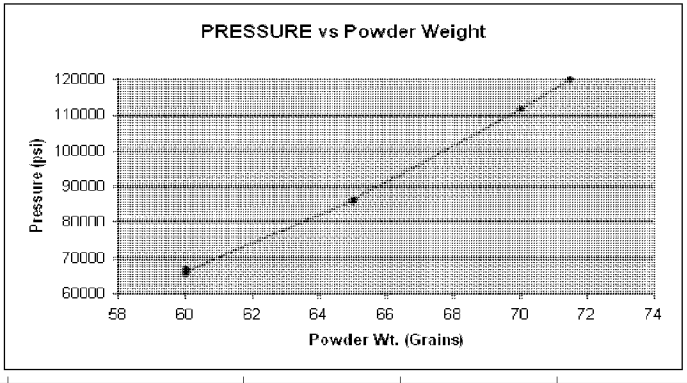
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
499	1495								1995						
500	1496								1996						
501	1497								1997						
502	1498								1998						
503	1499								1999						
504	1500	X	X	X	X	X	X		2000	X	X	X	X	X	X

	A	B	C	D	E	F	G	H	I
1									
2		Microhardness							
3									
4			A1						
5			A1 - Lug 1		A1 - Lug 2		A1 - Lug 3		
6			HRc	HV	HRc	HV	HRc	HV	
7		0.01	43.1	424	42.9	422	42.3	416	
8		0.045	45	445	44	434	44	434	
9		0.085	44.5	441	45.4	450	44.1	436	
10		0.125	44.2	436	44.9	445	44.8	443	
11		0.165	43.7	431	43.9	433	44	434	
12		0.205	44	434	43.3	427	43.1	424	
13		0.24	43.8	431	44	434	43.6	429	
14									
15									
16			B1						
17			B1 - Lug 1		B1 - Lug 2		B1 - Lug 3		
18			HRc	HV	HRc	HV	HRc	HV	
19		0.01	42.9	422	44.2	436	42.5	418	
20		0.045	43.1	425	44.6	441	43.1	424	
21		0.085	44.1	436	45.4	450	43.3	426	
22		0.125	44.4	438	45	445	43.3	427	
23		0.165	43.8	431	44.2	436	43.7	431	
24		0.205	43.5	429	42.9	422	44.1	436	
25		0.24	44.1	436	44.2	436	43.1	424	
26									
27									
28			C1						
29			C1 - Lug 1		C1 - Lug 2		C1 - Lug 3		
30			HRc	HV	HRc	HV	HRc	HV	
31		0.01	42.1	413	43.1	424	44	434	
32		0.045	43.5	429	43.3	426	43.3	427	
33		0.085	43.7	431	44.5	440	45	446	
34		0.125	44.7	443	44.5	441	43.7	431	
35		0.165	44.9	445	44.6	441	43.5	429	
36		0.205	43.5	429	43.5	429	43.7	431	
37		0.24	43.1	424	44.2	436	43.3	427	
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									


Microhardness in BBL Lug Cross Sections
Hardness, HRc
46
45.5
45
44.5
44
43.5
43
42.5
42
41.5
0
0.05
0.1
0.15
0.2
0.25
Distance from ID, Inches
A1 - Lug 1
A1 - Lug 2
A1 - Lug 3
B1 - Lug 1
B1 - Lug 2
B1 - Lug 3
C1 - Lug 1
C1 - Lug 2
C1 - Lug 3

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2		TLW 2305																
3		2 Aug. 2007																
4					MINITAB CURVE FIT OF EXPERIMENTAL DATA													
5	PRESSURE CHECK of				Quadratic fit with formula shown in Regression Plot													
6	HANDLOADED ROUNDS																	
7	(G. Howell - 1 Aug. 2007)																	
8				Constant =	241407													
9	Pwd Wt(X)	Pressure (Y)				Predicted												
10	(Grains)	(psi)		Weight	W^2	Pressure												
11	60	66821		60.0	3600.00	66235												
12	60	65552		60.1	3612.01	66583												
13	60	66333		60.2	3624.04	66933												
14	65	86060		60.3	3636.09	67285												
15	65	86352		60.4	3648.16	67639												
16	65	86280		60.5	3660.25	67995												
17	70	111548		60.6	3672.36	68354												
18	71.47	120004		60.7	3684.49	68714												
19				60.8	3696.64	69077												
20				60.9	3708.81	69442												
21				61.0	3721.00	69809												
22				61.1	3733.21	70178												
23				61.2	3745.44	70549												
24				61.3	3757.69	70922												
25				61.4	3769.96	71297												
26				61.5	3782.25	71675												
27				61.6	3794.56	72055												
28				61.7	3806.89	72436												
29				61.8	3819.24	72820												
30				61.9	3831.61	73207												
31				62.0	3844.00	73595												
32				62.1	3856.41	73985												
33				62.2	3868.84	74377												
34				62.3	3881.29	74772												
35				62.4	3893.76	75169												
36				62.5	3906.25	75568												
37				62.6	3918.76	75969												
38				62.7	3931.29	76372												
39				62.8	3943.84	76777												
40				62.9	3956.41	77184												
41				63.0	3969.00	77594												
42				63.1	3981.61	78005												
43				63.2	3994.24	78419												
44				63.3	4006.89	78835												
45				63.4	4019.56	79253												
46				63.5	4032.25	79673												
47				63.6	4044.96	80095												
48				63.7	4057.69	80520												
49				63.8	4070.44	80946												
50				63.9	4083.21	81375												
51				64.0	4096.00	81806												
52				64.1	4108.81	82239												
53				64.2	4121.64	82674												
54				64.3	4134.49	83111												





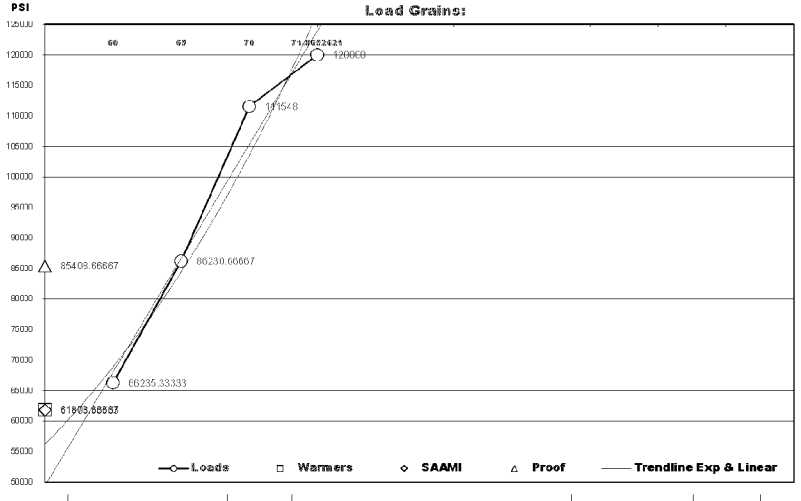
770 Hi-Press Test

Caliber :	**300WM**	Case :	Remington	Powder :	IMR 3031 Cont 528
Date :	1-Aug-07	Primer :	9.5 Large	Lot # :	E97AU19 L1500
Test Lab Req :	Tlw 2305	Bullet / Pellets :	180gr SP	Barrel-Transd :	UR 46 / # 2123
Temp & Hum :	75 / 30			Sens-CF's :	.131 / Rem 9790
References :	Tlw2184			Date Calib :	Apr-07

Estimate Final Load >	**71.9**	grains	**Final Load :**
Target Pressure >	**120000**	psi	**71.5**
Last Load >	**71.0**	grains	grains

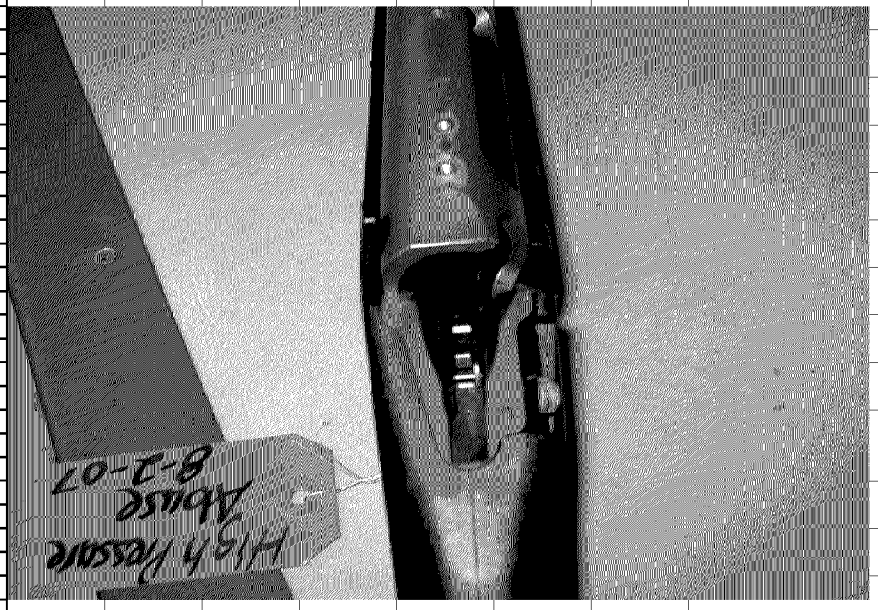
Notes: Strain location @ 2.029"

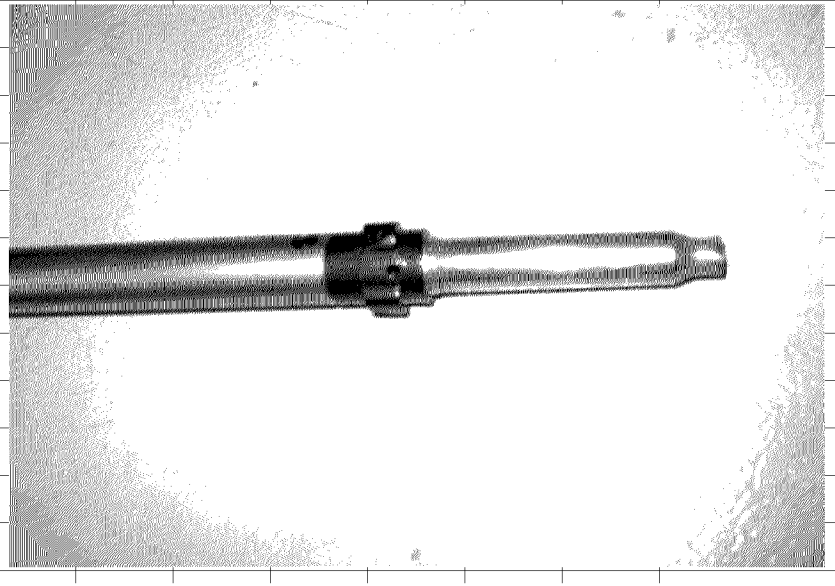
Ammo Type and Load	Warmers Fed GM300WM	SAAMI 300WM-180-8WW	Proof Std	60	65	70	TARGET 71.8653
Average	61874	61808	85409	66235	86231	111548	120000
1	62427	58716	85864	66821	86060	111548	
2	60767	63696	84302	65552	86352		
3	62427	63013	86060	66333	86280		
4							
5							
6							
7							
8							
9							
10							
Offset	9790	9790	9790	9790	9790	9790	
Range 1v=10kpsi	20000	20000	20000	20000	20000	20000	
Previous # :		62442	78377	68300	93298	113900	

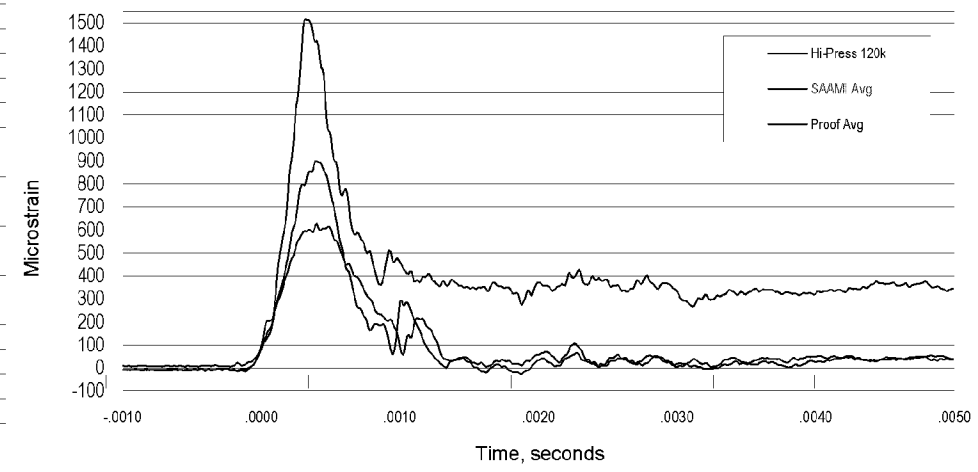


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
55				64.4	4147.36	83550												
56				64.5	4160.25	83992												
57				64.6	4173.16	84435												
58				64.7	4186.09	84881												
59				64.8	4199.04	85329												
60				64.9	4212.01	85778												
61				65.0	4225.00	86231												
62				65.1	4238.01	86685												
63				65.2	4251.04	87141												
64				65.3	4264.09	87600												
65				65.4	4277.16	88060												
66				65.5	4290.25	88523												
67				65.6	4303.36	88988												
68				65.7	4316.49	89455												
69				65.8	4329.64	89924												
70				65.9	4342.81	90395												
71				66.0	4356.00	90868												
72				66.1	4369.21	91344												
73				66.2	4382.44	91821												
74				66.3	4395.69	92301												
75				66.4	4408.96	92783												
76				66.5	4422.25	93267												
77				66.6	4435.56	93753												
78				66.7	4448.89	94241												
79				66.8	4462.24	94732												
80				66.9	4475.61	95224												
81				67.0	4489.00	95719												
82				67.1	4502.41	96216												
83				67.2	4515.84	96715												
84				67.3	4529.29	97216												
85				67.4	4542.76	97719												
86				67.5	4556.25	98224												
87				67.6	4569.76	98731												
88				67.7	4583.29	99241												
89				67.8	4596.84	99753												
90				67.9	4610.41	100266												
91				68.0	4624.00	100782												
92				68.1	4637.61	101300												
93				68.2	4651.24	101821												
94				68.3	4664.89	102343												
95				68.4	4678.56	102867												
96				68.5	4692.25	103394												
97				68.6	4705.96	103923												
98				68.7	4719.69	104453												
99				68.8	4733.44	104986												
100				68.9	4747.21	105521												
101				69.0	4761.00	106059												
102				69.1	4774.81	106598												
103				69.2	4788.64	107139												
104				69.3	4802.49	107683												
105				69.4	4816.36	108229												
106				69.5	4830.25	108777												
107				69.6	4844.16	109327												
108				69.7	4858.09	109879												
109				69.8	4872.04	110433												
110				69.9	4886.01	110989												
111				70.0	4900.00	111548												
112				70.1	4914.01	112109												
113				70.2	4928.04	112671												
114				70.3	4942.09	113236												
115				70.4	4956.16	113803												
116				70.5	4970.25	114372												
117				70.6	4984.36	114944												
118				70.7	4998.49	115517												

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
119				70.8	5012.64	116093												
120				70.9	5026.81	116670												
121				71.0	5041.00	117250												
122				71.1	5055.21	117832												
123				71.2	5069.44	118416												
124				71.3	5083.69	119002												
125				71.4	5097.96	119590												
126				71.41	5099.39	119649												
127				71.42	5100.82	119708												
128				71.43	5102.24	119767												
129				71.44	5103.67	119826												
130				71.45	5105.10	119885												
131				71.46	5106.53	119944												
132				**71.47**	**5107.96**	**120004**	**<<<-----USE LOAD OF 71.5 GRAINS IMR 3031 POWDER (Lot # E97AU19L1500)**											
133				71.48	5109.39	120063												
134				71.49	5110.82	120122												
135				71.50	5112.25	120181												





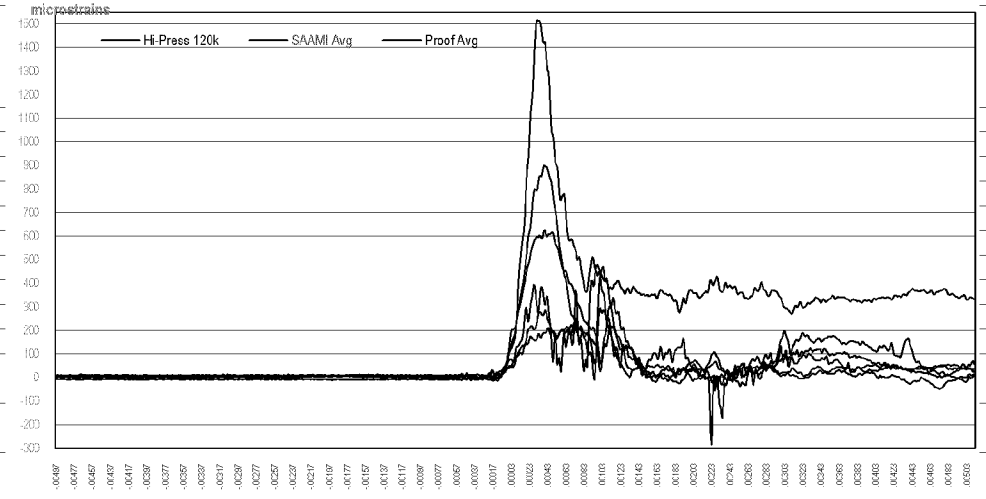

1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
-100
Microstrain
-.0010
.0000
.0010
.0020
.0030
.0040
.0050
Time, seconds
Hi-Press 120k
SAAMI Avg
Proof Avg

770 Stainless Steel Barrels Strains

Tlr 2305 Date	Gage 1 Hoop		Gage 2 Axial		Notes:
2-Aug-07	Max	Min	Max	Min	
1	650	-41	347	-38	SAAMI
2	620	-40	328	-96	SAAMI
3	631	-25	338	-72	SAAMI
4	907	-11	452	-53	Proof
5	887	-16	455	-65	Proof
6	907	-9	524	-136	Proof
7	1515	27	458	-284	Hi-Press 120k / 71.5 grains
Avg	627	-26	337	-31	SAAMI
Avg	900	-5	471	-50	Proof
	Microstains	Microstains	Microstains	Microstains	

> Somat System
> Gun: 300WM / A9 - 71378962
> Trig level 100ue

Ohms	Pre	Post
Hoop	120.1	NA
Axial	120.3	NA



Time Seconds	SAAMI Hoop Shot 1 microstrain	SAAMI Axial Shot 1 microstrain	SAAMI Hoop Shot 2 microstrain
Max	650.01	346.93	620.40
Min	-40.52	-37.85	-40.45
-.004990	-4.57	3.51	-6.19
-.004980	-3.25	5.28	-6.71
-.004970	-3.25	3.95	-8.18
-.004960	-4.65	2.03	-8.62
-.004950	-4.06	2.99	-9.73
-.004940	-2.66	3.21	-8.99
-.004930	-2.29	1.73	-8.03
-.004920	-4.72	-.04	-6.27
-.004910	-5.16	.11	-5.90
-.004900	-5.01	.11	-5.60
-.004890	-4.72	.70	-7.37
-.004880	-5.16	1.73	-7.37
-.004870	-3.84	3.95	-7.37
-.004860	-3.84	4.54	-6.78
-.004850	-5.53	3.80	-8.18
-.004840	-7.45	2.92	-8.99
-.004830	-6.93	2.69	-10.02
-.004820	-6.34	1.73	-8.62
-.004810	-6.71	1.14	-7.15
-.004800	-6.63	1.81	-6.05
-.004790	-4.28	3.51	-6.34
-.004780	-3.47	3.21	-5.46
-.004770	-4.57	2.47	-5.82
-.004760	-6.41	3.36	-7.00
-.004750	-6.63	4.69	-8.40
-.004740	-6.71	2.77	-8.18
-.004730	-5.16	1.00	-8.26
-.004720	-3.39	2.55	-8.03
-.004710	-3.98	5.06	-7.96
-.004700	-7.37	3.58	-8.18
-.004690	-7.37	2.55	-9.88
-.004680	-5.46	2.40	-8.84
-.004670	-4.35	3.58	-7.59
-.004660	-6.41	2.40	-6.19
-.004650	-6.19	2.47	-6.56
-.004640	-5.90	2.92	-5.46
-.004630	-5.31	3.95	-6.56
-.004620	-3.76	3.73	-8.33
-.004610	-1.92	3.58	-9.14
-.004600	-1.92	3.14	-7.30
-.004590	-4.20	1.88	-6.93

	L	M	N	O	P	Q	R	S	T
1	**Modified Data**								
2	SAAMI	SAAMI	SAAMI	Proof	Proof	Proof	Proof	Proof	Proof
3	Axial Shot 2	Hoop Shot 3	Axial Shot 3	Hoop Shot 4	Axial Shot 4	Hoop Shot 5	Axial Shot 5	Hoop Shot 6	Axial Shot 6
4	microstrain	microstrain	microstrain	microstrain	microstrain	microstrain	microstrain	microstrain	microstrain
5	327.58	631.23	337.77	907.47	451.81	886.77	455.06	907.25	523.67
6	-95.61	-25.35	-72.05	-19.45	-52.92	-16.14	-65.18	-8.99	-135.93
7	4.39	-8.70	6.24	-8.55	3.65	-4.94	-1.37	-4.28	1.96
8	4.91	-10.17	6.53	-11.79	2.62	-3.39	-1.07	-2.07	3.21
9	6.02	-10.24	5.94	-15.11	.92	-2.07	1.36	-2.80	1.66
10	8.23	-9.73	6.61	-15.25	.92	-3.76	2.47	-4.13	-.33
11	7.42	-9.58	8.23	-13.12	3.58	-4.20	3.65	-3.32	-.78
12	6.46	-9.73	7.05	-12.38	4.84	-3.98	2.77	-1.40	1.88
13	5.50	-10.02	4.98	-12.60	2.92	-4.13	.55	-2.14	2.77
14	7.27	-10.17	5.94	-11.28	2.47	-6.12	-.78	-3.03	1.88
15	7.35	-10.02	7.57	-9.43	3.65	-6.19	1.07	-3.61	-.04
16	6.98	-11.13	5.43	-10.17	3.65	-5.31	2.25	-2.80	.33
17	5.57	-10.69	5.43	-11.50	2.69	-2.66	2.32	-2.36	1.81
18	5.35	-9.21	7.57	-11.64	2.99	-1.77	2.03	-3.25	2.10
19	5.28	-9.36	7.20	-11.57	2.77	-1.92	4.10	-5.60	.55
20	6.46	-11.72	4.02	-12.01	1.73	-3.98	4.32	-5.46	.70
21	7.35	-11.79	5.28	-11.35	2.62	-4.28	3.14	-4.57	.55
22	9.27	-10.69	7.72	-10.83	3.21	-5.01	.55	-3.76	-.48
23	8.75	-10.54	7.35	-9.95	1.59	-4.79	-.11	-4.06	-.63
24	7.57	-11.79	4.69	-10.24	.70	-4.43	1.44	-3.39	2.62
25	5.57	-9.95	5.28	-11.20	2.92	-3.17	4.32	-2.80	3.06
26	6.02	-9.80	6.46	-13.41	4.39	-5.01	3.80	-2.44	.26
27	6.76	-11.64	6.68	-12.68	4.47	-4.94	2.69	-3.32	-1.96
28	8.16	-13.41	5.28	-11.87	2.40	-4.28	.92	-2.88	-.41
29	7.20	-12.38	5.13	-11.94	1.36	-1.70	1.44	-2.51	.85
30	5.57	-10.69	5.43	-13.04	2.40	-1.92	1.44	-1.55	2.25
31	4.69	-9.80	4.91	-11.72	4.54	-2.58	1.88	-2.66	1.07
32	5.57	-12.09	3.51	-9.88	3.06	-4.13	1.36	-3.10	-.19
33	5.94	-14.00	2.69	-10.32	-.63	-5.09	2.62	-2.44	-.70
34	6.02	-13.34	3.43	-9.95	-.41	-5.82	2.55	-.89	1.29
35	6.39	-11.50	4.02	-8.99	2.77	-4.65	2.84	-2.07	2.18
36	7.57	-10.91	3.21	-11.42	4.02	-2.95	2.77	-3.17	1.96
37	6.98	-11.42	2.84	-14.59	2.55	-1.99	3.95	-4.13	-.04
38	7.86	-10.91	3.95	-13.71	2.84	-4.06	3.14	-4.28	-.04
39	7.20	-9.21	3.95	-11.42	3.65	-5.46	.55	-5.31	-.19
40	7.64	-9.73	1.29	-11.50	2.77	-4.65	-1.22	-3.84	-.63
41	7.64	-10.02	1.59	-11.20	2.10	-2.22	.85	-1.63	-1.52
42	8.09	-8.99	4.54	-9.73	2.77	-3.10	1.29	-1.18	.40
43	7.42	-7.89	7.35	-8.99	3.95	-3.47	.55	-2.22	2.69
44	7.64	-10.83	5.50	-11.35	3.06	-3.25	-.48	-1.77	2.99
45	7.79	-12.53	5.87	-13.26	2.40	-1.85	.77	-2.36	1.07
46	8.31	-12.01	6.76	-12.90	1.88	-3.54	1.73	-3.17	.63
47	7.86	-9.36	5.87	-11.79	3.80	-4.43	2.77	-5.31	.18

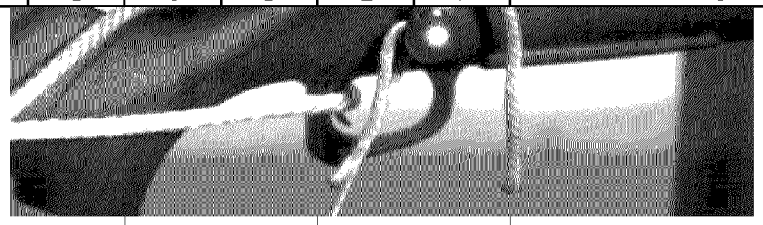
	U	V	W	X	Y	Z	AA	AB	AC	AD
1										
2		Hi-Press	Hi-Press	SAAMI	SAAMI	Proof	Proof			Gages@H1_4538.RN_1_Burst_1
3	Time	Hoop Shot 7	Axial Shot 7	Hoop Avg	Axial Avg	Hoop Avg	Axial Avg		Time	H1_4538
4	Seconds	microstrain	microstrain	stain	stain	stain	stain		Seconds	microstrain
5	Max	1515.07	458.43	626.76	337.43	900.50	470.76		0	-4.57237959
6	Min	5.16	-284.11	-25.84	-30.98	-10.32	-50.09		0.00001	-3.24641085
7	-.004990	6.34	4.96	-6.49	4.71	-5.92	1.41		0.00002	-3.24641085
8	-.004980	7.37	6.44	-6.71	5.57	-5.75	1.59		0.00003	-4.64604473
9	-.004970	9.58	6.29	-7.22	5.30	-6.66	1.32		0.00004	-4.05672503
10	-.004960	10.68	4.15	-7.67	5.62	-7.72	1.02		0.00005	-2.65709138
11	-.004950	9.87	3.19	-7.79	6.21	-6.88	2.15		0.00006	-2.28876662
12	-.004940	8.84	4.37	-7.13	5.57	-5.92	3.16		0.00007	-4.71970987
13	-.004930	8.25	4.37	-6.78	4.07	-6.29	2.08		0.00008	-5.1616993
14	-.004920	10.24	4.22	-7.05	4.39	-6.81	1.19		0.00009	-5.01436949
15	-.004910	9.43	3.19	-7.03	5.01	-6.41	1.56		0.0001	-4.71970987
16	-.004900	9.06	4.89	-7.25	4.17	-6.09	2.08		0.00011	-5.1616993
17	-.004890	7.66	5.26	-7.59	3.90	-5.51	2.28		0.00012	-3.83573031
18	-.004880	8.91	5.70	-7.25	4.89	-5.55	2.37		0.00013	-3.83573031
19	-.004870	9.65	5.18	-6.86	5.48	-6.36	2.47		0.00014	-5.53002405
20	-.004860	8.55	5.40	-7.45	5.01	-7.15	2.25		0.00015	-7.4453125
21	-.004850	7.07	7.25	-8.50	5.48	-6.73	2.10		0.00016	-6.92965794
22	-.004840	8.10	7.62	-9.04	6.63	-6.54	1.09		0.00017	-6.34033823
23	-.004830	9.87	4.66	-9.16	6.26	-6.27	.28		0.00018	-6.70866299
24	-.004820	11.79	2.82	-8.92	4.66	-6.02	1.59		0.00019	-6.63499832
25	-.004810	9.28	2.67	-7.94	4.00	-5.73	3.43		0.0002	-4.27771997
26	-.004800	7.74	5.26	-7.49	4.76	-6.95	2.82		0.00021	-3.4674058
27	-.004790	7.81	6.07	-7.42	5.65	-6.98	1.73		0.00022	-4.57237959
28	-.004780	9.50	6.14	-7.45	5.55	-6.34	.97		0.00023	-6.41400337
29	-.004770	9.58	5.11	-7.59	4.93	-5.38	1.22		0.00024	-6.63499832
30	-.004760	8.84	4.22	-8.03	4.79	-5.51	2.03		0.00025	-6.70866299
31	-.004750	8.55	6.14	-8.28	4.76	-5.65	2.50		0.00026	-5.1616993
32	-.004740	7.22	7.77	-8.99	3.95	-5.70	1.41		0.00027	-3.39374065
33	-.004730	6.85	7.47	-9.14	3.21	-5.95	.43		0.00028	-3.98306036
34	-.004720	10.31	5.33	-8.26	4.00	-5.55	1.14		0.00029	-7.37164736
35	-.004710	12.82	3.63	-7.81	5.16	-5.24	2.60		0.0003	-7.37164736
36	-.004700	12.89	4.96	-8.82	4.79	-5.85	2.92		0.00031	-5.45635891
37	-.004690	10.46	5.55	-9.56	4.12	-6.91	2.15		0.00032	-4.35138512
38	-.004680	10.68	6.95	-8.40	4.74	-7.35	1.98		0.00033	-6.41400337
39	-.004670	9.95	5.70	-7.05	4.91	-7.40	1.34		0.00034	-6.19300842
40	-.004660	10.02	4.37	-7.45	3.78	-6.66	.31		0.00035	-5.89834881
41	-.004650	10.17	4.30	-7.59	3.90	-5.01	.48		0.00036	-5.3090291
42	-.004640	10.31	6.44	-6.78	5.18	-4.67	1.49		0.00037	-3.76206541
43	-.004630	9.28	7.32	-6.59	6.24	-4.89	2.40		0.00038	-1.92044199
44	-.004620	9.80	7.40	-7.64	5.62	-5.46	1.86		0.00039	-1.92044199
45	-.004610	9.43	5.77	-7.86	5.75	-5.82	1.41		0.0004	-4.20405531
46	-.004600	9.87	5.11	-7.08	6.07	-6.54	1.41		0.00041	-6.78232813
47	-.004590	8.99	3.85	-6.83	5.21	-7.18	2.25		0.00042	-6.85599279

	AE	AF	AG	AH	AI
1					
2	Gages@H1_4538.RN_1_Burst_2	Gages@H1_4538.RN_1_Burst_3	Gages@H1_4538.RN_1_Burst_4	Gages@H1_4538.RN_1_Burst_5	Gages@H1_4538.RN_1_Burst_6
3	H1_4538	H1_4538	H1_4538	H1_4538	H1_4538
4	microstrain	microstrain	microstrain	microstrain	microstrain
5	-6.19300842	-8.69761658	-8.55028629	-4.94070435	-4.27771997
6	-6.70866299	-10.1709156	-11.79154396	-3.39374065	-2.06777191
7	-8.18196201	-10.24458027	-15.10646629	-2.06777191	-2.80442119
8	-8.62395191	-9.7289257	-15.25379658	-3.76206541	-4.13039017
9	-9.7289257	-9.58159542	-13.1175127	-4.20405531	-3.32007575
10	-8.99227619	-9.7289257	-12.38086319	-3.98306036	-1.4047873
11	-8.03463173	-10.02358532	-12.60185814	-4.13039017	-2.14143682
12	-6.26667356	-10.1709156	-11.2758894	-6.11934376	-3.02541614
13	-5.89834881	-10.02358532	-9.43426609	-6.19300842	-3.6147356
14	-5.60368919	-11.12855911	-10.1709156	-5.3090291	-2.80442119
15	-7.37164736	-10.68657017	-11.49688435	-2.65709138	-2.36243153
16	-7.37164736	-9.21327114	-11.64421368	-1.77311206	-3.24641085
17	-7.37164736	-9.36060143	-11.57054901	-1.92044199	-5.60368919
18	-6.78232813	-11.7178793	-12.01253891	-3.98306036	-5.45635891
19	-8.18196201	-11.79154396	-11.34955406	-4.27771997	-4.57237959
20	-8.99227619	-10.68657017	-10.8338995	-5.01436949	-3.76206541
21	-10.02358532	-10.53923988	-9.94992065	-4.79337454	-4.05672503
22	-8.62395191	-11.79154396	-10.24458027	-4.42504978	-3.39374065
23	-7.15065289	-9.94992065	-11.20222473	-3.17274594	-2.80442119
24	-6.04567862	-9.80259037	-13.41217232	-5.01436949	-2.43609643
25	-6.34033823	-11.64421368	-12.67552376	-4.94070435	-3.32007575
26	-5.45635891	-13.41217232	-11.86520863	-4.27771997	-2.87808609
27	-5.82468367	-12.38086319	-11.93887424	-1.69944715	-2.50976157
28	-7.00332308	-10.68657017	-13.04384804	-1.92044199	-1.55211723
29	-8.40295696	-9.80259037	-11.7178793	-2.58342648	-2.65709138
30	-8.18196201	-12.08620358	-9.87625599	-4.13039017	-3.09908104
31	-8.25562668	-14.0014925	-10.31824493	-5.08803463	-2.43609643
32	-8.03463173	-13.33850765	-9.94992065	-5.82468367	-0.88913274
33	-7.96096706	-11.49688435	-8.99227619	-4.64604473	-2.06777191
34	-8.18196201	-10.90756512	-11.42321968	-2.95175099	-3.17274594
35	-9.87625599	-11.42321968	-14.59081173	-1.99410689	-4.13039017
36	-8.84494591	-10.90756512	-13.70683289	-4.05672503	-4.27771997
37	-7.59264231	-9.21327114	-11.42321968	-5.45635891	-5.3090291
38	-6.19300842	-9.7289257	-11.49688435	-4.64604473	-3.83573031
39	-6.56133318	-10.02358532	-11.20222473	-2.21510172	-1.62578213
40	-5.45635891	-8.99227619	-9.7289257	-3.09908104	-1.18379247
41	-6.56133318	-7.88730192	-8.99227619	-3.4674058	-2.21510172
42	-8.32929134	-10.8338995	-11.34955406	-3.24641085	-1.77311206
43	-9.13960648	-12.52819347	-13.26484299	-1.84677696	-2.36243153
44	-7.29798269	-12.01253891	-12.89651775	-3.5410707	-3.17274594
45	-6.92965794	-9.36060143	-11.79154396	-4.42504978	-5.3090291
46	-7.66630745	-8.69761658	-12.38086319	-5.1616993	-4.86703968
47	-9.36060143	-8.77128124	-12.52819347	-3.39374065	-2.80442119

	AJ	AK	AL	AM	AN
1	**RAW Data**				
2	Gages@A1_4691.RN_1_Burst_1	Gages@A1_4691.RN_1_Burst_2	Gages@A1_4691.RN_1_Burst_3	Gages@A1_4691.RN_1_Burst_4	Gages@A1_4691.RN_1_Burst_5
3	A1_4691	A1_4691	A1_4691	A1_4691	A1_4691
4	microstrain	microstrain	microstrain	microstrain	microstrain
5	3.50656581	4.39282417	6.23919535	3.65427542	-1.36785424
6	5.2790823	4.90980816	6.53461456	2.62030768	-1.07243478
7	3.94969487	6.01763058	5.94377565	0.92164612	1.36477518
8	2.02946877	8.23327637	6.60846949	0.92164612	2.47259784
9	2.98958182	7.42087269	8.23327637	3.58042073	3.65427542
10	3.21114635	6.46075964	7.05159855	4.83595324	2.76801729
11	1.73404944	5.50064659	4.98366261	2.9157269	0.55237186
12	-0.03846694	7.27316332	5.94377565	2.47259784	-0.77701545
13	0.10924275	7.34701777	7.56858253	3.65427542	1.06935585
14	0.10924275	6.97774363	5.42679167	3.65427542	2.25103331
15	0.70008153	5.57450151	5.42679167	2.69416237	2.32488823
16	1.73404944	5.35293722	7.56858253	2.98958182	2.02946877
17	3.94969487	5.2790823	7.1993084	2.76801729	4.09740448
18	4.54053354	6.46075964	4.02354956	1.73404944	4.31896925
19	3.80198526	7.34701777	5.2790823	2.62030768	3.13729167
20	2.9157269	9.26724434	7.71629238	3.21114635	0.55237186
21	2.69416237	8.75026035	7.34701777	1.58633971	-0.11232179
22	1.73404944	7.56858253	4.68824339	0.70008153	1.43862998
23	1.14321065	5.57450151	5.2790823	2.9157269	4.31896925
24	1.80790424	6.01763058	6.46075964	4.39282417	3.80198526
25	3.50656581	6.75617933	6.68232441	4.46667862	2.69416237
26	3.21114635	8.15942097	5.2790823	2.39874315	0.92164612
27	2.47259784	7.1993084	5.13137245	1.36477518	1.43862998
28	3.3588562	5.57450151	5.42679167	2.39874315	1.43862998
29	4.68824339	4.68824339	4.90980816	4.54053354	1.88175917
30	2.76801729	5.57450151	3.50656581	3.06343675	1.36477518
31	0.99550092	5.94377565	2.69416237	-0.62930572	2.62030768
32	2.54645276	6.01763058	3.43271089	-0.40774119	2.54645276
33	5.05751753	6.38690472	4.02354956	2.76801729	2.84187222
34	3.58042073	7.56858253	3.21114635	4.02354956	2.76801729
35	2.54645276	6.97774363	2.84187222	2.54645276	3.94969487
36	2.39874315	7.86400175	3.94969487	2.84187222	3.13729167
37	3.58042073	7.1993084	3.94969487	3.65427542	0.55237186
38	2.39874315	7.64243746	1.29092038	2.76801729	-1.22014451
39	2.47259784	7.64243746	1.58633971	2.1033237	0.84779125
40	2.9157269	8.08556652	4.54053354	2.76801729	1.29092038
41	3.94969487	7.42087269	7.34701777	3.94969487	0.55237186
42	3.72813034	7.64243746	5.50064659	3.06343675	-0.48159602
43	3.58042073	7.79014683	5.86992073	2.39874315	0.77393639
44	3.13729167	8.30713081	6.75617933	1.88175917	1.73404944
45	1.88175917	7.86400175	5.86992073	3.80198526	2.76801729
46	1.14321065	8.8241148	3.65427542	5.13137245	1.58633971
47	1.73404944	8.67640495	5.13137245	5.20522738	1.21706545

	AO	AP	AQ	AR	AS
1					
2	Gages@A1_4691.RN_1_Burst_6	Gages@H1_4538.RN_2_Burst_1	Gages@A1_4691.RN_2_Burst_1	SAAMI Hoop Avg	Proof Hoop Avg
3	A1_4691	H1_4538	A1_4691	Computed	Computed
4	microstrain	microstrain	microstrain	stain	stain
5	1.95561397	6.3355279	4.96018124	-6.48766804	-5.92290354
6	3.21114635	7.36683702	6.43727827	-6.70866299	-5.751019
7	1.66019464	9.57678509	6.28956842	-7.22431755	-6.65955305
8	-0.33388633	10.68175983	4.14777803	-7.66630745	-7.71541739
9	-0.77701545	9.87144566	3.18766499	-7.78908205	-6.880548
10	1.88175917	8.84013653	4.3693428	-7.12609768	-5.92290354
11	2.76801729	8.25081635	4.3693428	-6.78232765	-6.29122829
12	1.88175917	10.23976994	4.22163296	-7.05243301	-6.80688286
13	-0.03846694	9.42945576	3.18766499	-7.02787781	-6.41400337
14	0.3308073	9.06113052	4.88632631	-7.24887276	-6.09478855
15	1.80790424	7.66149712	5.25560093	-7.59264231	-5.50546932
16	2.1033237	8.91380119	5.69872999	-7.24887276	-5.55457878
17	0.55237186	9.65045071	5.18174601	-6.85599327	-6.36489344
18	0.70008153	8.54547596	5.4033103	-7.4453125	-7.15065289
19	0.55237186	7.07217741	7.24968147	-8.50117683	-6.73321772
20	-0.48159602	8.10348701	7.61895609	-9.0413866	-6.53677797
21	-0.62930572	9.87144566	4.66476202	-9.16416073	-6.26667356
22	2.62030768	11.78673363	2.81839085	-8.91861153	-6.02112341
23	3.06343675	9.28212547	2.670681	-7.93641233	-5.72646379
24	0.25695246	7.73516178	5.25560093	-7.49442244	-6.95421267
25	-1.95869303	7.80882692	6.06800413	-7.42075729	-6.97876787
26	-0.40774119	9.50312042	6.14185905	-7.4453125	-6.34033823
27	0.84779125	9.57678509	5.10789108	-7.59264231	-5.38269424
28	2.25103331	8.84013653	4.22163296	-8.03463173	-5.50546932
29	1.06935585	8.54547596	6.14185905	-8.28018188	-5.65279913
30	-0.18617664	7.21950722	7.76666546	-8.99227619	-5.70190907
31	-0.70316058	6.85118246	7.47124624	-9.13960648	-5.94745874
32	1.29092038	10.3134346	5.32945538	-8.25562668	-5.55457878
33	2.17717862	12.81804276	3.63079405	-7.81363726	-5.23536444
34	1.95561397	12.89170742	4.96018124	-8.82039165	-5.84923887
35	-0.03846694	10.46076488	5.55102015	-9.55704117	-6.90510273
36	-0.03846694	10.68175983	6.95426226	-8.40295696	-7.34709263
37	-0.18617664	9.94511032	5.69872999	-7.05243301	-7.39620256
38	-0.62930572	10.01877499	4.3693428	-7.4453125	-6.65955305
39	-1.51556396	10.16610527	4.29548788	-7.59264231	-5.01436949
40	0.40466216	10.3134346	6.43727827	-6.78232813	-4.67059994
41	2.69416237	9.28212547	7.3235364	-6.58588791	-4.89159441
42	2.98958182	9.79778004	7.39739132	-7.64175224	-5.45635891
43	1.06935585	9.42945576	5.77258492	-7.86274719	-5.82468367
44	0.62622672	9.87144566	5.10789108	-7.07698774	-6.53677797
45	0.1830976	8.98746586	3.85235858	-6.83143806	-7.17520761
46	0.99550092	9.79778004	4.00006819	-7.71541739	-7.46986723
47	1.66019464	9.13479614	4.07392311	-8.3292923	-6.24211836

	AT	AU
1		
2	SAAMI Axial Avg	SAAMI Axial Avg
3	Computed	Computed
4	stain	stain
5	4.71286201	1.41401172
6	5.57450151	1.58633971
7	5.30370045	1.31553864
8	5.62373829	1.02011919
9	6.21457672	2.15256023
10	5.57450151	3.16190982
11	4.07278633	2.07870531
12	4.39282417	1.19244719
13	5.00828123	1.56172144
14	4.1712594	2.07870531
15	3.90045834	2.27565169
16	4.88518953	2.37412477
17	5.47602844	2.47259784
18	5.00828075	2.25103331
19	5.47602844	2.1033237
20	6.63308811	1.09397411
21	6.2638135	0.28157073
22	4.66362524	1.58633971
23	3.99893141	3.43271089
24	4.76209831	2.81725407
25	5.64835644	1.73404932
26	5.54988337	0.97088271
27	4.93442631	1.21706545
28	4.78671646	2.02946877
29	4.76209831	2.49721622
30	3.94969487	1.41401172
31	3.21114635	0.42928046
32	3.99893141	1.14321065
33	5.1559906	2.5956893
34	4.78671646	2.9157269
35	4.12202263	2.15256023
36	4.73748016	1.98023236
37	4.90980816	1.34015691
38	3.77736712	0.30618903
39	3.90045834	0.478517
40	5.18060875	1.48786664
41	6.23919487	2.39874315
42	5.62373829	1.8571409
43	5.74682951	1.41401184
44	6.06686735	1.41401172
45	5.20522738	2.25103331
46	4.54053354	2.57107115
47	5.18060875	2.69416237

	A	B	C	D	E	F	G	H	I	J	K
48								-.004580	-6.78	1.14	-7.67
49								-.004570	-6.86	1.73	-9.36
50								-.004560	-5.60	3.14	-9.43
51								-.004550	-5.60	4.54	-8.99
52								-.004540	-6.93	3.95	-5.82
53								-.004530	-6.34	2.62	-5.16
54								-.004520	-3.98	1.73	-6.63
55								-.004510	-3.10	1.88	-9.43
56								-.004500	-6.19	1.66	-10.32
57								-.004490	-8.26	1.44	-10.47
58								-.004480	-5.90	2.92	-7.45
59								-.004470	-3.25	6.39	-5.38
60								-.004460	-4.20	5.43	-5.60
61								-.004450	-4.43	2.47	-8.84
62								-.004440	-4.35	.48	-8.70
63								-.004430	-4.87	2.69	-7.67
64								-.004420	-7.81	3.29	-6.19
65								-.004410	-7.67	2.92	-7.08
66								-.004400	-5.60	2.40	-7.08
67								-.004390	-3.47	3.73	-7.52
68								-.004380	-3.32	4.17	-6.12
69								-.004370	-4.13	3.36	-5.90
70								-.004360	-4.06	2.84	-5.16
71								-.004350	-3.39	3.58	-5.82
72								-.004340	-5.01	2.92	-7.00
73								-.004330	-5.60	2.47	-8.40
74								-.004320	-5.09	2.55	-8.48
75								-.004310	-4.43	2.62	-8.26
76								-.004300	-4.79	1.59	-7.00
77								-.004290	-5.01	1.44	-8.11
78								-.004280	-4.20	3.29	-8.92
79								-.004270	-3.69	4.25	-8.26
80								-.004260	-3.98	3.06	-5.31
81								-.004250	-3.54	2.47	-5.01
82								-.004240	-3.25	3.06	-6.86
83								-.004230	-4.28	3.65	-9.14
84								-.004220	-7.00	2.32	-9.43
85								-.004210	-7.00	3.21	-9.36
86								-.004200	-4.87	4.02	-8.84
87								-.004190	-3.10	3.65	-9.43
88								-.004180	-5.24	1.29	-9.43
89								-.004170	-6.34	1.22	-11.05
90								-.004160	-5.31	2.03	-9.66
91								-.004150	-3.25	2.62	-7.52
92								-.004140	-3.39	2.47	-5.46
93								-.004130	-5.09	2.92	-6.63
94								-.004120	-5.60	3.29	-7.52
95								-.004110	-4.20	3.14	-7.37
96								-.004100	-4.72	3.36	-7.30
97								-.004090	-6.41	4.25	-9.21

	L	M	N	O	P	Q	R	S	T
48	8.82	-8.70	3.65	-12.38	5.13	-5.16	1.59	-4.87	1.00
49	8.68	-8.77	5.13	-12.53	5.21	-3.39	1.22	-2.80	1.66
50	7.79	-9.58	7.20	-12.75	3.14	-2.88	.77	-2.36	1.22
51	5.94	-10.02	6.98	-11.13	3.65	-3.32	1.44	-6.05	-1.81
52	6.46	-12.31	4.02	-10.61	3.80	-5.01	.55	-7.30	-2.18
53	7.35	-13.19	3.43	-12.01	2.03	-2.80	-.33	-5.31	.11
54	9.12	-11.05	5.43	-13.26	.40	-2.07	-.78	-3.54	1.44
55	8.97	-8.99	6.76	-11.79	1.66	-3.10	.85	-4.13	-.92
56	8.53	-9.43	5.13	-10.32	3.88	-4.13	2.62	-3.25	-1.00
57	7.13	-10.98	2.99	-11.57	3.21	-2.14	3.88	-2.88	.04
58	6.76	-11.50	3.80	-11.79	1.00	-2.66	2.92	-3.25	1.29
59	6.46	-11.35	6.46	-10.83	1.44	-5.75	.92	-5.01	.33
60	7.13	-11.20	6.90	-10.76	3.36	-7.00	.04	-4.35	.70
61	7.49	-11.05	5.72	-11.57	4.84	-5.16	1.73	-3.39	1.14
62	8.90	-10.91	5.43	-12.23	4.17	-5.01	2.32	-1.63	2.40
63	8.53	-8.99	6.83	-12.68	2.55	-3.61	2.03	-2.95	1.73
64	7.64	-7.81	7.27	-12.09	.70	-2.66	1.44	-5.60	2.40
65	6.09	-7.52	7.49	-9.73	.77	-1.77	2.32	-6.78	2.32
66	6.17	-9.80	6.68	-9.43	1.29	-3.98	2.32	-4.65	.92
67	6.98	-10.61	7.27	-10.83	2.32	-4.43	3.29	-3.69	-1.22
68	8.60	-10.54	6.98	-11.50	3.06	-5.31	1.29	-4.65	-.63
69	7.94	-9.73	6.90	-10.91	3.43	-4.87	.11	-4.72	2.18
70	8.16	-9.51	6.31	-11.57	2.10	-5.46	-1.37	-3.84	2.62
71	7.49	-8.55	6.76	-10.76	3.14	-3.76	-.56	-4.28	-1.37
72	6.46	-9.43	6.09	-9.88	3.73	-3.98	-.33	-3.54	-3.44
73	4.54	-9.51	6.46	-10.54	2.92	-3.25	1.07	-2.66	-2.48
74	4.69	-10.24	6.90	-11.57	1.44	-3.10	1.59	-2.58	-.48
75	5.21	-10.02	7.72	-10.91	2.47	-3.47	1.22	-5.16	-.04
76	5.80	-11.05	6.46	-10.17	2.99	-5.90	-.56	-5.38	1.00
77	5.28	-11.28	6.61	-10.17	2.32	-5.16	-.11	-3.54	1.36
78	6.31	-10.91	7.27	-10.61	1.44	-4.06	-.63	-1.55	1.81
79	6.02	-10.83	6.90	-9.73	1.14	-4.20	-.70	-2.95	.18
80	5.35	-12.38	5.21	-9.36	.63	-5.31	.26	-4.13	.18
81	5.13	-12.97	4.39	-10.91	.63	-4.43	1.96	-4.43	.40
82	6.98	-11.57	2.99	-12.53	1.73	-3.25	1.51	-1.77	2.18
83	7.94	-9.88	2.77	-13.41	1.88	-2.36	1.88	-1.99	1.00
84	8.23	-10.32	4.47	-12.97	2.03	-2.88	3.21	-2.95	.04
85	8.16	-10.54	6.61	-11.64	3.29	-3.17	4.10	-3.17	-.78
86	8.53	-10.17	6.02	-12.38	3.58	-3.25	3.36	-2.22	-.11
87	7.49	-10.17	4.10	-12.38	2.69	-1.55	3.65	-2.66	-.19
88	6.68	-10.91	3.21	-12.45	1.29	-2.36	2.18	-1.70	.48
89	6.17	-9.58	4.84	-11.13	1.66	-3.69	1.81	-.74	.55
90	7.64	-10.10	5.28	-11.57	.85	-4.13	2.25	-.23	.85
91	8.68	-11.13	5.28	-11.35	.70	-2.73	3.88	-1.99	-.33
92	8.75	-12.09	6.02	-11.20	.92	-4.94	2.03	-3.32	.11
93	6.46	-12.75	6.90	-10.32	2.69	-6.19	1.29	-4.28	.70
94	6.17	-12.53	5.65	-10.47	2.99	-5.68	.55	-3.76	.85
95	7.35	-9.58	5.43	-11.35	3.51	-3.98	1.00	-3.84	.48
96	7.27	-8.55	4.98	-12.23	3.43	-4.65	-.11	-4.57	.04
97	5.35	-10.39	4.98	-11.79	3.95	-5.01	.55	-5.01	-.92

	U	V	W	X	Y	Z	AA	AB	AC	AD
48	-.004580	9.80	4.00	-7.72	4.54	-7.47	2.57		0.00043	-5.60368919
49	-.004570	9.13	4.07	-8.33	5.18	-6.24	2.69		0.00044	-5.60368919
50	-.004560	9.28	5.26	-8.21	6.04	-6.00	1.71		0.00045	-6.92965794
51	-.004550	9.87	5.85	-8.21	5.82	-6.83	1.09		0.00046	-6.34033823
52	-.004540	11.57	6.22	-8.35	4.81	-7.64	.72		0.00047	-3.98306036
53	-.004530	11.34	6.07	-8.23	4.47	-6.71	.60		0.00048	-3.09908104
54	-.004520	10.17	5.48	-7.22	5.43	-6.29	.36		0.00049	-6.19300842
55	-.004510	10.09	5.18	-7.18	5.87	-6.34	.53		0.0005	-8.25562668
56	-.004500	10.76	5.11	-8.65	5.11	-5.90	1.83		0.00051	-5.89834881
57	-.004490	9.28	3.93	-9.90	3.85	-5.53	2.37		0.00052	-3.24641085
58	-.004480	8.99	4.22	-8.28	4.49	-5.90	1.73		0.00053	-4.20405531
59	-.004470	7.96	4.89	-6.66	6.44	-7.20	.90		0.00054	-4.42504978
60	-.004460	7.51	6.14	-7.00	6.49	-7.37	1.36		0.00055	-4.35138512
61	-.004450	8.91	6.22	-8.11	5.23	-6.71	2.57		0.00056	-4.86703968
62	-.004440	10.98	4.66	-7.99	4.93	-6.29	2.96		0.00057	-7.81363726
63	-.004430	11.93	3.19	-7.18	6.02	-6.41	2.10		0.00058	-7.66630745
64	-.004420	11.57	3.85	-7.27	6.07	-6.78	1.51		0.00059	-5.60368919
65	-.004410	9.72	4.44	-7.42	5.50	-6.09	1.81		0.0006	-3.4674058
66	-.004400	10.17	5.11	-7.49	5.08	-6.02	1.51		0.00061	-3.32007575
67	-.004390	10.31	4.44	-7.20	5.99	-6.32	1.46		0.00062	-4.13039017
68	-.004380	11.49	6.29	-6.66	6.58	-7.15	1.24		0.00063	-4.05672503
69	-.004370	10.09	6.29	-6.59	6.07	-6.83	1.91		0.00064	-3.39374065
70	-.004360	8.77	5.55	-6.24	5.77	-6.95	1.12		0.00065	-5.01436949
71	-.004350	8.40	4.66	-5.92	5.94	-6.27	.40		0.00066	-5.60368919
72	-.004340	8.25	3.63	-7.15	5.16	-5.80	-.01		0.00067	-5.08803463
73	-.004330	8.99	4.22	-7.84	4.49	-5.48	.50		0.00068	-4.42504978
74	-.004320	9.95	4.07	-7.94	4.71	-5.75	.85		0.00069	-4.79337454
75	-.004310	10.68	4.59	-7.57	5.18	-6.51	1.22		0.0007	-5.01436949
76	-.004300	10.90	5.92	-7.62	4.61	-7.15	1.14		0.00071	-4.20405531
77	-.004290	8.91	5.55	-8.13	4.44	-6.29	1.19		0.00072	-3.68840051
78	-.004280	8.03	4.44	-8.01	5.62	-5.41	.87		0.00073	-3.98306036
79	-.004270	7.81	3.19	-7.59	5.72	-5.63	.21		0.00074	-3.5410707
80	-.004260	9.58	4.74	-7.22	4.54	-6.27	.36		0.00075	-3.24641085
81	-.004250	10.24	6.29	-7.18	4.00	-6.59	1.00		0.00076	-4.27771997
82	-.004240	9.43	7.32	-7.22	4.34	-5.85	1.81		0.00077	-7.00332308
83	-.004230	9.87	7.91	-7.76	4.79	-5.92	1.59		0.00078	-7.00332308
84	-.004220	11.49	6.73	-8.92	5.01	-6.27	1.76		0.00079	-4.86703968
85	-.004210	12.16	5.70	-8.97	5.99	-6.00	2.20		0.0008	-3.09908104
86	-.004200	11.05	6.07	-7.96	6.19	-5.95	2.28		0.00081	-5.23536444
87	-.004190	10.02	6.14	-7.57	5.08	-5.53	2.05		0.00082	-6.34033823
88	-.004180	10.76	6.36	-8.53	3.73	-5.51	1.32		0.00083	-5.3090291
89	-.004170	9.65	5.62	-8.99	4.07	-5.19	1.34		0.00084	-3.24641085
90	-.004160	9.72	4.89	-8.35	4.98	-5.31	1.32		0.00085	-3.39374065
91	-.004150	9.58	3.34	-7.30	5.53	-5.36	1.41		0.00086	-5.08803463
92	-.004140	10.24	4.22	-6.98	5.75	-6.49	1.02		0.00087	-5.60368919
93	-.004130	10.39	6.51	-8.16	5.43	-6.93	1.56		0.00088	-4.20405531
94	-.004120	9.72	6.66	-8.55	5.03	-6.63	1.46		0.00089	-4.71970987
95	-.004110	9.72	5.77	-7.05	5.30	-6.39	1.66		0.0009	-6.41400337
96	-.004100	9.87	4.44	-6.86	5.21	-7.15	1.12		0.00091	-6.11934376
97	-.004090	9.50	4.07	-8.67	4.86	-7.27	1.19		0.00092	-4.71970987

	AE	AF	AG	AH	AI
48	-9.43426609	-9.58159542	-12.74918842	-2.87808609	-2.36243153
49	-8.99227619	-10.02358532	-11.12855911	-3.32007575	-6.04567862
50	-5.82468367	-12.30719852	-10.61290455	-5.01436949	-7.29798269
51	-5.1616993	-13.19117832	-12.01253891	-2.80442119	-5.3090291
52	-6.63499832	-11.05489445	-13.26484299	-2.06777191	-3.5410707
53	-9.43426609	-8.99227619	-11.79154396	-3.09908104	-4.13039017
54	-10.31824493	-9.43426609	-10.31824493	-4.13039017	-3.24641085
55	-10.46557522	-10.98122978	-11.57054901	-2.14143682	-2.87808609
56	-7.4453125	-11.49688435	-11.79154396	-2.65709138	-3.24641085
57	-5.38269424	-11.34955406	-10.8338995	-5.751019	-5.01436949
58	-5.60368919	-11.20222473	-10.76023483	-7.00332308	-4.35138512
59	-8.84494591	-11.05489445	-11.57054901	-5.1616993	-3.39374065
60	-8.69761658	-10.90756512	-12.23353386	-5.01436949	-1.62578213
61	-7.66630745	-8.99227619	-12.67552376	-3.6147356	-2.95175099
62	-6.19300842	-7.81363726	-12.08620358	-2.65709138	-5.60368919
63	-7.07698774	-7.51897764	-9.7289257	-1.77311206	-6.78232813
64	-7.07698774	-9.80259037	-9.43426609	-3.98306036	-4.64604473
65	-7.51897764	-10.61290455	-10.8338995	-4.42504978	-3.68840051
66	-6.11934376	-10.53923988	-11.49688435	-5.3090291	-4.64604473
67	-5.89834881	-9.7289257	-10.90756512	-4.86703968	-4.71970987
68	-5.1616993	-9.50793076	-11.57054901	-5.45635891	-3.83573031
69	-5.82468367	-8.55028629	-10.76023483	-3.76206541	-4.27771997
70	-7.00332308	-9.43426609	-9.87625599	-3.98306036	-3.5410707
71	-8.40295696	-9.50793076	-10.53923988	-3.24641085	-2.65709138
72	-8.47662163	-10.24458027	-11.57054901	-3.09908104	-2.58342648
73	-8.25562668	-10.02358532	-10.90756512	-3.4674058	-5.1616993
74	-7.00332308	-11.05489445	-10.1709156	-5.89834881	-5.38269424
75	-8.10829735	-11.2758894	-10.1709156	-5.1616993	-3.5410707
76	-8.91861153	-10.90756512	-10.61290455	-4.05672503	-1.55211723
77	-8.25562668	-10.8338995	-9.7289257	-4.20405531	-2.95175099
78	-5.3090291	-12.38086319	-9.36060143	-5.3090291	-4.13039017
79	-5.01436949	-12.97018337	-10.90756512	-4.42504978	-4.42504978
80	-6.85599279	-11.57054901	-12.52819347	-3.24641085	-1.77311206
81	-9.13960648	-9.87625599	-13.41217232	-2.36243153	-1.99410689
82	-9.43426609	-10.31824493	-12.97018337	-2.87808609	-2.95175099
83	-9.36060143	-10.53923988	-11.64421368	-3.17274594	-3.17274594
84	-8.84494591	-10.1709156	-12.38086319	-3.24641085	-2.21510172
85	-9.43426609	-10.1709156	-12.38086319	-1.55211723	-2.65709138
86	-9.43426609	-10.90756512	-12.45452881	-2.36243153	-1.69944715
87	-11.05489445	-9.58159542	-11.12855911	-3.68840051	-0.74180287
88	-9.65526104	-10.09724998	-11.57054901	-4.13039017	-0.22614829
89	-7.51897764	-11.12855911	-11.34955406	-2.73075628	-1.99410689
90	-5.45635891	-12.08620358	-11.20222473	-4.94070435	-3.32007575
91	-6.63499832	-12.74918842	-10.31824493	-6.19300842	-4.27771997
92	-7.51897764	-12.52819347	-10.46557522	-5.67735386	-3.76206541
93	-7.37164736	-9.58159542	-11.34955406	-3.98306036	-3.83573031
94	-7.29798269	-8.55028629	-12.23353386	-4.64604473	-4.57237959
95	-9.21327114	-10.39191055	-11.79154396	-5.01436949	-5.01436949
96	-10.1709156	-12.89651775	-12.08620358	-5.45635891	-2.28876662
97	-8.84494591	-12.01253891	-11.49688435	-3.83573031	-1.03646266

	AJ	AK	AL	AM	AN
48	3.13729167	7.79014683	7.1993084	3.13729167	0.77393639
49	4.54053354	5.94377565	6.97774363	3.65427542	1.43862998
50	3.94969487	6.46075964	4.02354956	3.80198526	0.55237186
51	2.62030768	7.34701777	3.43271089	2.02946877	-0.33388633
52	1.73404944	9.11953449	5.42679167	0.40466216	-0.77701545
53	1.88175917	8.97182465	6.75617933	1.66019464	0.84779125
54	1.66019464	8.52869511	5.13137245	3.87583995	2.62030768
55	1.43862998	7.12545347	2.98958182	3.21114635	3.87583995
56	2.9157269	6.75617933	3.80198526	0.99550092	2.9157269
57	6.38690472	6.46075964	6.46075964	1.43862998	0.92164612
58	5.42679167	7.12545347	6.9038887	3.3588562	0.03538791
59	2.47259784	7.49472761	5.72221136	4.83595324	1.73404944
60	0.478517	8.8979702	5.42679167	4.1712594	2.32488823
61	2.69416237	8.52869511	6.83003378	2.54645276	2.02946877
62	3.28500128	7.64243746	7.27316332	0.70008153	1.43862998
63	2.9157269	6.0914855	7.49472761	0.77393639	2.32488823
64	2.39874315	6.16534042	6.68232441	1.29092038	2.32488823
65	3.72813034	6.97774363	7.27316332	2.32488823	3.28500128
66	4.1712594	8.60255051	6.97774363	3.06343675	1.29092038
67	3.3588562	7.93785667	6.9038887	3.43271089	0.10924275
68	2.84187222	8.15942097	6.31305027	2.1033237	-1.36785424
69	3.58042073	7.49472761	6.75617933	3.13729167	-0.55545086
70	2.9157269	6.46075964	6.0914855	3.72813034	-0.33388633
71	2.47259784	4.54053354	6.46075964	2.9157269	1.06935585
72	2.54645276	4.68824339	6.9038887	1.43862998	1.58633971
73	2.62030768	5.20522738	7.71629238	2.47259784	1.21706545
74	1.58633971	5.79606628	6.46075964	2.98958182	-0.55545086
75	1.43862998	5.2790823	6.60846949	2.32488823	-0.11232179
76	3.28500128	6.31305027	7.27316332	1.43862998	-0.62930572
77	4.24511433	6.01763058	6.9038887	1.14321065	-0.70316058
78	3.06343675	5.35293722	5.20522738	0.62622672	0.25695246
79	2.47259784	5.13137245	4.39282417	0.62622672	1.95561397
80	3.06343675	6.97774363	2.98958182	1.73404944	1.51248491
81	3.65427542	7.93785667	2.76801729	1.88175917	1.88175917
82	2.32488823	8.23327637	4.46667862	2.02946877	3.21114635
83	3.21114635	8.15942097	6.60846949	3.28500128	4.09740448
84	4.02354956	8.52869511	6.01763058	3.58042073	3.3588562
85	3.65427542	7.49472761	4.09740448	2.69416237	3.65427542
86	1.29092038	6.68232441	3.21114635	1.29092038	2.17717862
87	1.21706545	6.16534042	4.83595324	1.66019464	1.80790424
88	2.02946877	7.64243746	5.2790823	0.84779125	2.25103331
89	2.62030768	8.67640495	5.2790823	0.70008153	3.87583995
90	2.47259784	8.75026035	6.01763058	0.92164612	2.02946877
91	2.9157269	6.46075964	6.9038887	2.69416237	1.29092038
92	3.28500128	6.16534042	5.64835644	2.98958182	0.55237186
93	3.13729167	7.34701777	5.42679167	3.50656581	0.99550092
94	3.3588562	7.27316332	4.98366261	3.43271089	-0.11232179
95	4.24511433	5.35293722	4.98366261	3.94969487	0.55237186
96	3.28500128	6.01763058	4.83595324	3.58042073	-0.26003149
97	1.51248491	8.08556652	6.38690472	4.68824339	-0.85087025

	AO	AP	AQ	AR	AS
48	1.21706545	9.28212547	5.25560093	-8.20651722	-5.99656868
49	-1.8109833	9.87144566	5.84643936	-8.20651722	-6.83143806
50	-2.18025756	11.56573868	6.21571398	-8.35384655	-7.64175224
51	0.10924275	11.34474373	6.06800413	-8.23107147	-6.70866299
52	1.43862998	10.16610527	5.47716522	-7.22431755	-6.29122829
53	-0.92472512	10.09243965	5.18174601	-7.17520761	-6.34033823
54	-0.99857998	10.7554245	5.10789108	-8.64850616	-5.89834881
55	0.03538791	9.28212547	3.9262135	-9.90081024	-5.53002405
56	1.29092038	8.98746586	4.22163296	-8.28018188	-5.89834881
57	0.3308073	7.95615673	4.88632631	-6.65955305	-7.19976282
58	0.70008153	7.51416731	6.14185905	-7.00332308	-7.37164783
59	1.14321065	8.91380119	6.21571398	-8.10829639	-6.70866299
60	2.39874315	10.97641945	4.66476202	-7.98552227	-6.29122829
61	1.73404944	11.93406391	3.18766499	-7.17520761	-6.41400337
62	2.39874315	11.56573868	3.85235858	-7.27342749	-6.78232813
63	2.32488823	9.72411537	4.44319725	-7.42075777	-6.09478855
64	0.92164612	10.16610527	5.10789108	-7.49442244	-6.02112389
65	-1.22014451	10.3134346	4.44319725	-7.19976282	-6.3157835
66	-0.62930572	11.49207401	6.28956842	-6.65955305	-7.15065289
67	2.17717862	10.09243965	6.28956842	-6.58588839	-6.83143806
68	2.62030768	8.76647091	5.55102015	-6.24211836	-6.95421267
69	-1.36785424	8.39814663	4.66476202	-5.92290354	-6.26667356
70	-3.43579006	8.25081635	3.63079405	-7.15065289	-5.80012894
71	-2.47567701	8.98746586	4.22163296	-7.83819246	-5.48091412
72	-0.48159602	9.94511032	4.07392311	-7.93641233	-5.751019
73	-0.03846694	10.68175983	4.5909071	-7.5680871	-6.51222324
74	0.99550092	10.90275478	5.92029428	-7.61719751	-7.15065289
75	1.36477518	8.91380119	5.55102015	-8.13285255	-6.29122829
76	1.80790424	8.0298214	4.44319725	-8.01007748	-5.40724897
77	0.1830976	7.80882692	3.18766499	-7.59264231	-5.62824392
78	0.1830976	9.57678509	4.73861694	-7.22431755	-6.26667356
79	0.40466216	10.23976994	6.28956842	-7.17520809	-6.58588839
80	2.17717862	9.42945576	7.3235364	-7.22431755	-5.84923887
81	0.99550092	9.87144566	7.91437531	-7.76452732	-5.92290354
82	0.03538791	11.49207401	6.73269796	-8.91861153	-6.26667356
83	-0.77701545	12.15505886	5.69872999	-8.96772194	-5.99656868
84	-0.11232179	11.05008411	6.06800413	-7.96096706	-5.94745874
85	-0.18617664	10.01877499	6.14185905	-7.56808758	-5.53002405
86	0.478517	10.7554245	6.36342335	-8.52573204	-5.50546932
87	0.55237186	9.65045071	5.62487507	-8.99227619	-5.18625402
88	0.84779125	9.72411537	4.88632631	-8.35384655	-5.3090291
89	-0.33388633	9.57678509	3.33537459	-7.29798269	-5.35813904
90	0.10924275	10.23976994	4.22163296	-6.97876787	-6.48766804
91	0.70008153	10.38710022	6.51113319	-8.15740681	-6.92965794
92	0.84779125	9.72411537	6.65884304	-8.55028725	-6.63499832
93	0.478517	9.72411537	5.77258492	-7.05243254	-6.38944817
94	0.03538791	9.87144566	4.44319725	-6.85599279	-7.15065289
95	-0.92472512	9.50312042	4.07392311	-8.67306137	-7.27342749
96	-0.40774119	7.88249207	4.51705217	-9.7289257	-6.61044312
97	-0.62930572	6.26186323	4.3693428	-8.52573204	-5.45635891

	AT	AU
48	6.04224873	1.70943117
49	5.82068443	1.09397399
50	4.81133461	0.72469985
51	4.46667862	0.6016084
52	5.42679167	0.35542557
53	5.86992121	0.52775359
54	5.1067543	1.83252251
55	3.8512218	2.37412477
56	4.49129725	1.73404944
57	6.43614149	0.89702779
58	6.48537779	1.36477518
59	5.22984552	2.57107115
60	4.93442631	2.96496367
61	6.01763058	2.1033237
62	6.06686735	1.51248491
63	5.50064659	1.80790424
64	5.08213615	1.51248491
65	5.99301243	1.46324837
66	6.58385134	1.24168384
67	6.06686735	1.90637743
68	5.77144766	1.11859238
69	5.94377613	0.40466219
70	5.1559906	-0.01384868
71	4.49129677	0.50313526
72	4.71286154	0.84779119
73	5.18060923	1.21706545
74	4.61438847	1.14321065
75	4.44206047	1.19244719
76	5.62373829	0.87240952
77	5.72221136	0.20771588
78	4.54053402	0.3554256
79	3.99893141	0.99550092
80	4.3435874	1.80790436
81	4.78671646	1.58633971
82	5.00828123	1.75866771
83	5.99301243	2.20179677
84	6.18995857	2.27565169
85	5.08213568	2.05408716
86	3.72813034	1.31553864
87	4.07278633	1.34015691
88	4.98366261	1.31553864
89	5.52526474	1.41401172
90	5.74682951	1.02011919
91	5.42679167	1.56172144
92	5.03289938	1.46324825
93	5.30370045	1.66019464
94	5.20522738	1.11859238
95	4.86057138	1.19244719
96	4.71286154	0.97088265
97	5.3283186	1.06935585

	A	B	C	D	E	F	G	H	I	J	K
98								-.004080	-6.12	3.29	-10.17
99								-.004070	-4.72	1.51	-8.84
100								-.004060	-5.09	.55	-7.96
101								-.004050	-5.46	1.96	-11.35
102								-.004040	-4.65	4.47	-11.50
103								-.004030	-3.69	5.65	-9.88
104								-.004020	-4.72	2.25	-8.70
105								-.004010	-5.75	.55	-8.99
106								-.004000	-5.53	1.66	-8.40
107								-.003990	-3.76	3.88	-8.55
108								-.003980	-4.79	2.99	-9.36
109								-.003970	-6.78	.85	-9.58
110								-.003960	-7.00	-.19	-8.26
111								-.003950	-3.47	2.18	-7.37
112								-.003940	-2.36	4.25	-6.78
113								-.003930	-3.98	4.25	-7.30
114								-.003920	-5.24	3.51	-7.81
115								-.003910	-4.43	4.32	-7.52
116								-.003900	-5.24	4.54	-6.19
117								-.003890	-8.03	2.84	-6.71
118								-.003880	-10.02	2.03	-8.26
119								-.003870	-7.67	3.51	-8.62
120								-.003860	-4.50	3.36	-6.78
121								-.003850	-3.17	1.44	-7.89
122								-.003840	-2.95	-.19	-9.29
123								-.003830	-2.07	1.29	-8.26
124								-.003820	-2.58	3.06	-5.75
125								-.003810	-4.43	4.54	-7.81
126								-.003800	-6.93	5.28	-10.54
127								-.003790	-5.75	6.39	-10.91
128								-.003780	-4.13	5.43	-9.21
129								-.003770	-2.36	4.61	-9.21
130								-.003760	-4.20	4.10	-7.30
131								-.003750	-5.90	3.95	-4.87
132								-.003740	-5.97	2.77	-3.39
133								-.003730	-3.84	2.47	-5.01
134								-.003720	-3.98	2.25	-8.70
135								-.003710	-3.84	2.47	-11.20
136								-.003700	-4.13	1.14	-9.43
137								-.003690	-3.61	.85	-6.93
138								-.003680	-4.57	1.88	-7.15
139								-.003670	-3.76	4.98	-8.84
140								-.003660	-2.36	5.72	-7.37
141								-.003650	-2.80	3.88	-5.97
142								-.003640	-4.87	1.81	-6.19
143								-.003630	-5.24	2.77	-8.33
144								-.003620	-5.01	3.14	-8.55
145								-.003610	-5.97	2.10	-8.18
146								-.003600	-7.22	1.96	-8.48
147								-.003590	-7.00	2.47	-8.84

	L	M	N	O	P	Q	R	S	T
98	6.02	-12.90	4.84	-12.09	3.58	-5.46	-.26	-2.29	-.41
99	8.09	-12.01	6.39	-11.50	4.69	-3.84	-.85	-1.04	-.63
100	8.82	-9.51	6.90	-12.31	3.88	-3.39	-.56	-4.06	-1.52
101	6.39	-8.77	5.57	-13.26	2.92	-3.54	2.10	-7.89	-1.07
102	7.20	-9.51	4.10	-13.71	2.92	-4.57	1.73	-6.41	1.88
103	9.19	-10.24	4.54	-13.78	2.55	-2.36	1.88	-5.68	1.73
104	10.89	-11.13	6.53	-12.82	1.81	-2.22	1.22	-6.63	-.04
105	10.23	-11.28	7.72	-10.47	2.84	-4.50	1.73	-6.49	.11
106	9.93	-11.35	7.64	-9.29	3.80	-6.12	1.73	-2.07	2.69
107	8.31	-11.64	6.53	-10.39	2.25	-3.84	2.55	-1.40	1.59
108	7.27	-12.53	4.54	-10.98	1.44	-2.66	.70	-3.25	-.56
109	7.79	-12.23	4.91	-10.17	3.06	-3.76	.18	-5.38	-1.37
110	8.82	-11.94	5.94	-11.35	2.99	-6.78	1.59	-3.76	.55
111	7.64	-10.91	5.87	-12.97	1.14	-5.75	4.17	-2.51	1.44
112	6.39	-9.58	4.84	-14.37	.70	-2.80	3.51	-1.48	1.73
113	6.31	-7.52	6.02	-13.71	3.21	-.74	2.47	-2.22	.18
114	6.83	-9.14	6.17	-11.79	4.32	-3.25	1.73	-2.44	.40
115	6.98	-11.20	5.06	-10.47	3.95	-4.79	2.25	-2.44	.04
116	7.13	-11.13	4.54	-11.42	2.40	-4.43	1.96	-1.63	-.11
117	6.46	-8.77	5.72	-12.53	1.29	-2.73	1.88	-2.44	-.63
118	5.50	-9.43	6.61	-12.09	1.29	-2.07	2.55	-3.25	.33
119	4.61	-11.87	6.76	-11.05	4.10	-3.10	4.10	-4.43	.48
120	5.13	-12.31	6.17	-11.42	5.13	-5.16	4.32	-4.94	.92
121	5.06	-9.80	4.69	-10.47	4.61	-5.75	2.18	-5.31	.77
122	5.72	-9.07	3.14	-9.73	2.92	-5.31	-.85	-3.61	1.51
123	8.09	-10.02	3.65	-10.39	1.96	-2.80	-.78	-4.13	1.29
124	9.56	-10.91	4.10	-12.60	1.59	-2.51	.11	-5.38	1.88
125	6.39	-11.20	3.95	-12.75	2.40	-4.06	1.00	-6.63	1.44
126	3.06	-11.35	4.98	-11.28	1.96	-7.08	.40	-5.16	1.29
127	3.73	-10.98	6.90	-10.54	.85	-6.93	.70	-3.54	-.26
128	6.98	-10.32	7.27	-10.32	1.22	-5.38	1.29	-2.29	.70
129	8.16	-9.95	6.31	-10.17	2.62	-2.80	2.55	-4.13	1.73
130	8.97	-9.43	5.72	-10.24	3.51	-3.47	.85	-3.17	2.32
131	8.97	-10.17	5.13	-10.32	4.10	-2.73	.63	-1.55	.70
132	8.38	-11.57	4.76	-11.87	3.43	-2.66	-.26	-.45	-1.88
133	7.27	-11.50	5.43	-13.12	2.92	-3.10	-.48	-3.17	-2.84
134	7.64	-10.32	5.87	-13.19	2.25	-5.60	-1.29	-4.20	.70
135	7.64	-10.32	6.02	-11.50	2.84	-5.01	1.44	-4.65	1.96
136	6.76	-11.42	4.98	-11.64	2.32	-3.76	2.32	-3.10	1.29
137	7.05	-9.36	6.09	-11.42	1.66	-4.06	.18	-2.29	-.19
138	8.68	-7.30	5.94	-11.64	1.00	-5.46	-2.55	-1.85	.40
139	8.82	-8.18	4.76	-11.57	1.14	-4.50	-.92	-3.25	-.48
140	8.31	-10.47	4.69	-13.12	2.03	-3.98	1.29	-4.20	-1.59
141	7.57	-10.39	6.90	-12.68	4.17	-4.94	2.32	-4.28	-1.59
142	7.86	-9.88	7.49	-11.64	4.61	-6.63	.85	-2.80	.40
143	7.20	-10.61	6.98	-11.57	3.80	-5.97	-.04	-2.36	1.73
144	7.64	-11.50	6.76	-12.09	2.77	-4.06	-.19	-2.07	2.69
145	8.82	-9.80	6.90	-10.54	2.77	-1.92	1.44	-4.50	.70
146	8.97	-8.70	5.43	-9.43	1.73	-3.84	1.36	-5.53	-.78
147	7.57	-9.14	3.95	-10.54	.70	-5.68	.92	-4.35	-.78

	U	V	W	X	Y	Z	AA	AB	AC	AD
98	-.004080	7.88	4.52	-9.73	4.71	-6.61	.97		0.00093	-5.08803463
99	-.004070	6.26	4.37	-8.53	5.33	-5.46	1.07		0.00094	-5.45635891
100	-.004060	7.37	5.70	-7.52	5.43	-6.59	.60		0.00095	-4.64604473
101	-.004050	8.10	5.40	-8.53	4.64	-8.23	1.32		0.00096	-3.68840051
102	-.004040	7.37	5.11	-8.55	5.25	-8.23	2.18		0.00097	-4.71970987
103	-.004030	7.07	5.26	-7.94	6.46	-7.27	2.05		0.00098	-5.751019
104	-.004020	8.03	5.85	-8.18	6.56	-7.22	1.00		0.00099	-5.53002405
105	-.004010	9.95	5.55	-8.67	6.17	-7.15	1.56		0.001	-3.76206541
106	-.004000	10.02	3.78	-8.43	6.41	-5.82	2.74		0.00101	-4.79337454
107	-.003990	9.95	3.56	-7.99	6.24	-5.21	2.13		0.00102	-6.78232813
108	-.003980	9.95	5.85	-8.89	4.93	-5.63	.53		0.00103	-7.00332308
109	-.003970	7.81	6.29	-9.53	4.52	-6.44	.63		0.00104	-3.4674058
110	-.003960	8.10	6.14	-9.07	4.86	-7.30	1.71		0.00105	-2.36243153
111	-.003950	8.77	4.66	-7.25	5.23	-7.08	2.25		0.00106	-3.98306036
112	-.003940	8.91	5.03	-6.24	5.16	-6.22	1.98		0.00107	-5.23536444
113	-.003930	8.91	6.14	-6.27	5.53	-5.55	1.96		0.00108	-4.42504978
114	-.003920	9.13	6.51	-7.40	5.50	-5.82	2.15		0.00109	-5.23536444
115	-.003910	9.21	5.85	-7.72	5.45	-5.90	2.08		0.0011	-8.03463173
116	-.003900	8.10	5.77	-7.52	5.40	-5.82	1.41		0.00111	-10.02358532
117	-.003890	8.77	7.32	-7.84	5.01	-5.90	.85		0.00112	-7.66630745
118	-.003880	9.43	7.32	-9.24	4.71	-5.80	1.39		0.00113	-4.49871492
119	-.003870	8.99	6.29	-9.39	4.96	-6.19	2.89		0.00114	-3.17274594
120	-.003860	8.77	7.69	-7.86	4.89	-7.18	3.46		0.00115	-2.95175099
121	-.003850	9.36	8.65	-6.95	3.73	-7.18	2.52		0.00116	-2.06777191
122	-.003840	10.61	7.10	-7.10	2.89	-6.22	1.19		0.00117	-2.58342648
123	-.003830	9.43	3.70	-6.78	4.34	-5.78	.82		0.00118	-4.42504978
124	-.003820	7.66	2.60	-6.41	5.57	-6.83	1.19		0.00119	-6.92965794
125	-.003810	7.66	5.18	-7.81	4.96	-7.81	1.61		0.0012	-5.751019
126	-.003800	7.88	5.62	-9.61	4.44	-7.84	1.22		0.00121	-4.13039017
127	-.003790	9.43	5.85	-9.21	5.67	-7.00	.43		0.00122	-2.36243153
128	-.003780	9.58	6.66	-7.89	6.56	-6.00	1.07		0.00123	-4.20405531
129	-.003770	8.69	6.36	-7.18	6.36	-5.70	2.30		0.00124	-5.89834881
130	-.003760	9.65	5.40	-6.98	6.26	-5.63	2.23		0.00125	-5.97201347
131	-.003750	9.87	4.30	-6.98	6.02	-4.87	1.81		0.00126	-3.83573031
132	-.003740	9.50	4.96	-6.98	5.30	-4.99	.43		0.00127	-3.98306036
133	-.003730	8.40	5.26	-6.78	5.06	-6.46	-.14		0.00128	-3.83573031
134	-.003720	8.25	4.44	-7.67	5.25	-7.67	.55		0.00129	-4.13039017
135	-.003710	9.58	3.93	-8.45	5.38	-7.05	2.08		0.0013	-3.6147356
136	-.003700	10.24	3.70	-8.33	4.29	-6.17	1.98		0.00131	-4.57237959
137	-.003690	10.76	4.66	-6.63	4.66	-5.92	.55		0.00132	-3.76206541
138	-.003680	9.43	5.70	-6.34	5.50	-6.32	-.38		0.00133	-2.36243153
139	-.003670	8.62	5.55	-6.93	6.19	-6.44	-.09		0.00134	-2.80442119
140	-.003660	7.96	5.03	-6.73	6.24	-7.10	.58		0.00135	-4.86703968
141	-.003650	8.40	4.30	-6.39	6.12	-7.30	1.64		0.00136	-5.23536444
142	-.003640	9.65	4.37	-6.98	5.72	-7.03	1.96		0.00137	-5.01436949
143	-.003630	9.87	5.77	-8.06	5.65	-6.63	1.83		0.00138	-5.97201347
144	-.003620	9.72	6.44	-8.35	5.85	-6.07	1.76		0.00139	-7.22431755
145	-.003610	10.39	5.26	-7.99	5.94	-5.65	1.64		0.0014	-7.00332308
146	-.003600	9.28	3.04	-8.13	5.45	-6.27	.77		0.00141	-7.37164736
147	-.003590	8.84	4.30	-8.33	4.66	-6.86	.28		0.00142	-7.07698774

	AE	AF	AG	AH	AI
98	-7.96096706	-9.50793076	-12.30719852	-3.39374065	-4.05672503
99	-11.34955406	-8.77128124	-13.26484299	-3.5410707	-7.88730192
100	-11.49688435	-9.50793076	-13.70683289	-4.57237959	-6.41400337
101	-9.87625599	-10.24458027	-13.78049755	-2.36243153	-5.67735386
102	-8.69761658	-11.12855911	-12.82285309	-2.21510172	-6.63499832
103	-8.99227619	-11.2758894	-10.46557522	-4.49871492	-6.48766804
104	-8.40295696	-11.34955406	-9.28693581	-6.11934376	-2.06777191
105	-8.55028629	-11.64421368	-10.39191055	-3.83573031	-1.4047873
106	-9.36060143	-12.52819347	-10.98122978	-2.65709138	-3.24641085
107	-9.58159542	-12.23353386	-10.1709156	-3.76206541	-5.38269424
108	-8.25562668	-11.93887424	-11.34955406	-6.78232813	-3.76206541
109	-7.37164736	-10.90756512	-12.97018337	-5.751019	-2.50976157
110	-6.78232813	-9.58159542	-14.36981678	-2.80442119	-1.47845232
111	-7.29798269	-7.51897764	-13.70683289	-0.74180287	-2.21510172
112	-7.81363726	-9.13960648	-11.79154396	-3.24641085	-2.43609643
113	-7.51897764	-11.20222473	-10.46557522	-4.79337454	-2.43609643
114	-6.19300842	-11.12855911	-11.42321968	-4.42504978	-1.62578213
115	-6.70866299	-8.77128124	-12.52819347	-2.73075628	-2.43609643
116	-8.25562668	-9.43426609	-12.08620358	-2.06777191	-3.24641085
117	-8.62395191	-11.86520863	-11.05489445	-3.09908104	-4.42504978
118	-6.78232813	-12.30719852	-11.42321968	-5.1616993	-4.94070435
119	-7.88730192	-9.80259037	-10.46557522	-5.751019	-5.3090291
120	-9.28693581	-9.06594086	-9.7289257	-5.3090291	-3.6147356
121	-8.25562668	-10.02358532	-10.39191055	-2.80442119	-4.13039017
122	-5.751019	-10.90756512	-12.60185814	-2.50976157	-5.38269424
123	-7.81363726	-11.20222473	-12.74918842	-4.05672503	-6.63499832
124	-10.53923988	-11.34955406	-11.2758894	-7.07698774	-5.1616993
125	-10.90756512	-10.98122978	-10.53923988	-6.92965794	-3.5410707
126	-9.21327114	-10.31824493	-10.31824493	-5.38269424	-2.28876662
127	-9.21327114	-9.94992065	-10.1709156	-2.80442119	-4.13039017
128	-7.29798269	-9.43426609	-10.24458027	-3.4674058	-3.17274594
129	-4.86703968	-10.1709156	-10.31824493	-2.73075628	-1.55211723
130	-3.39374065	-11.57054901	-11.86520863	-2.65709138	-0.44714311
131	-5.01436949	-11.49688435	-13.1175127	-3.09908104	-3.17274594
132	-8.69761658	-10.31824493	-13.19117832	-5.60368919	-4.20405531
133	-11.20222473	-10.31824493	-11.49688435	-5.01436949	-4.64604473
134	-9.43426609	-11.42321968	-11.64421368	-3.76206541	-3.09908104
135	-6.92965794	-9.36060143	-11.42321968	-4.05672503	-2.28876662
136	-7.15065289	-7.29798269	-11.64421368	-5.45635891	-1.84677696
137	-8.84494591	-8.18196201	-11.57054901	-4.49871492	-3.24641085
138	-7.37164736	-10.46557522	-13.1175127	-3.98306036	-4.20405531
139	-5.97201347	-10.39191055	-12.67552376	-4.94070435	-4.27771997
140	-6.19300842	-9.87625599	-11.64421368	-6.63499832	-2.80442119
141	-8.32929134	-10.61290455	-11.57054901	-5.97201347	-2.36243153
142	-8.55028629	-11.49688435	-12.08620358	-4.05672503	-2.06777191
143	-8.18196201	-9.80259037	-10.53923988	-1.92044199	-4.49871492
144	-8.47662163	-8.69761658	-9.43426609	-3.83573031	-5.53002405
145	-8.84494591	-9.13960648	-10.53923988	-5.67735386	-4.35138512
146	-8.84494591	-10.39191055	-13.19117832	-6.19300842	-2.65709138
147	-9.28693581	-10.1709156	-13.19117832	-3.32007575	-3.68840051

	AJ	AK	AL	AM	AN
98	0.55237186	8.8241148	6.9038887	3.87583995	-0.55545086
99	1.95561397	6.38690472	5.57450151	2.9157269	2.1033237
100	4.46667862	7.1993084	4.09740448	2.9157269	1.73404944
101	5.64835644	9.19338894	4.54053354	2.54645276	1.88175917
102	2.25103331	10.89205074	6.53461456	1.80790424	1.21706545
103	0.55237186	10.22735691	7.71629238	2.84187222	1.73404944
104	1.66019464	9.93193722	7.64243746	3.80198526	1.73404944
105	3.87583995	8.30713081	6.53461456	2.25103331	2.54645276
106	2.98958182	7.27316332	4.54053354	1.43862998	0.70008153
107	0.84779125	7.79014683	4.90980816	3.06343675	0.1830976
108	-0.18617664	8.8241148	5.94377565	2.98958182	1.58633971
109	2.17717862	7.64243746	5.86992073	1.14321065	4.1712594
110	4.24511433	6.38690472	4.83595324	0.70008153	3.50656581
111	4.24511433	6.31305027	6.01763058	3.21114635	2.47259784
112	3.50656581	6.83003378	6.16534042	4.31896925	1.73404944
113	4.31896925	6.97774363	5.05751753	3.94969487	2.25103331
114	4.54053354	7.12545347	4.54053354	2.39874315	1.95561397
115	2.84187222	6.46075964	5.72221136	1.29092038	1.88175917
116	2.02946877	5.50064659	6.60846949	1.29092038	2.54645276
117	3.50656581	4.61438847	6.75617933	4.09740448	4.09740448
118	3.3588562	5.13137245	6.16534042	5.13137245	4.31896925
119	1.43862998	5.05751753	4.68824339	4.61438847	2.17717862
120	-0.18617664	5.72221136	3.13729167	2.9157269	-0.85087025
121	1.29092038	8.08556652	3.65427542	1.95561397	-0.77701545
122	3.06343675	9.56266308	4.09740448	1.58633971	0.10924275
123	4.54053354	6.38690472	3.94969487	2.39874315	0.99550092
124	5.2790823	3.06343675	4.98366261	1.95561397	0.40466216
125	6.38690472	3.72813034	6.9038887	0.84779125	0.70008153
126	5.42679167	6.97774363	7.27316332	1.21706545	1.29092038
127	4.61438847	8.15942097	6.31305027	2.62030768	2.54645276
128	4.09740448	8.97182465	5.72221136	3.50656581	0.84779125
129	3.94969487	8.97182465	5.13137245	4.09740448	0.62622672
130	2.76801729	8.38098621	4.76209831	3.43271089	-0.26003149
131	2.47259784	7.27316332	5.42679167	2.9157269	-0.48159602
132	2.25103331	7.64243746	5.86992073	2.25103331	-1.29399931
133	2.47259784	7.64243746	6.01763058	2.84187222	1.43862998
134	1.14321065	6.75617933	4.98366261	2.32488823	2.32488823
135	0.84779125	7.05159855	6.0914855	1.66019464	0.1830976
136	1.88175917	8.67640495	5.94377565	0.99550092	-2.5495317
137	4.98366261	8.8241148	4.76209831	1.14321065	-0.92472512
138	5.72221136	8.30713081	4.68824339	2.02946877	1.29092038
139	3.87583995	7.56858253	6.9038887	4.1712594	2.32488823
140	1.80790424	7.86400175	7.49472761	4.61438847	0.84779125
141	2.76801729	7.1993084	6.97774363	3.80198526	-0.03846694
142	3.13729167	7.64243746	6.75617933	2.76801729	-0.18617664
143	2.1033237	8.8241148	6.9038887	2.76801729	1.43862998
144	1.95561397	8.97182465	5.42679167	1.73404944	1.36477518
145	2.47259784	7.56858253	3.94969487	0.70008153	0.92164612
146	1.58633971	6.01763058	3.94969487	0.10924275	0.3308073
147	0.99550092	5.13137245	5.2790823	0.70008153	1.06935585

	AO	AP	AQ	AR	AS
98	-1.51556396	7.36683702	5.69872999	-7.51897764	-6.58588791
99	-1.07243478	8.10348701	5.4033103	-8.52573109	-8.23107147
100	1.88175917	7.36683702	5.10789108	-8.55028629	-8.23107147
101	1.73404944	7.07217741	5.25560093	-7.93641233	-7.27342749
102	-0.03846694	8.0298214	5.84643936	-8.18196201	-7.22431755
103	0.10924275	9.94511032	5.55102015	-8.67306137	-7.15065289
104	2.69416237	10.01877499	3.77850389	-8.42751122	-5.82468367
105	1.58633971	9.94511032	3.55693913	-7.98552179	-5.21080923
106	-0.55545086	9.94511032	5.84643936	-8.89405632	-5.62824392
107	-1.36785424	7.80882692	6.28956842	-9.53248596	-6.43855858
108	0.55237186	8.10348701	6.14185905	-9.06594086	-7.29798269
109	1.43862998	8.76647091	4.66476202	-7.24887276	-7.07698822
110	1.73404944	8.91380119	5.03403616	-6.24211836	-6.21756363
111	0.1830976	8.91380119	6.14185905	-6.26667356	-5.55457926
112	0.40466216	9.13479614	6.51113319	-7.39620256	-5.82468367
113	0.03538791	9.20846081	5.84643936	-7.71541739	-5.89834881
114	-0.11232179	8.10348701	5.77258492	-7.51897717	-5.82468367
115	-0.62930572	8.76647091	7.3235364	-7.83819199	-5.89834881
116	0.3308073	9.42945576	7.3235364	-9.23782635	-5.80012894
117	0.478517	8.98746586	6.28956842	-9.38515568	-6.19300842
118	0.92164612	8.76647091	7.69281054	-7.86274719	-7.17520761
119	0.77393639	9.35579109	8.65292358	-6.95421267	-7.17520761
120	1.51248491	10.60809422	7.1019721	-7.10154247	-6.21756363
121	1.29092038	9.42945576	3.70464897	-6.78232813	-5.77557373
122	1.88175917	7.66149712	2.59682631	-6.41400337	-6.83143806
123	1.43862998	7.66149712	5.18174601	-7.81363726	-7.81363726
124	1.29092038	7.88249207	5.62487507	-9.60615063	-7.83819199
125	-0.26003149	9.42945576	5.84643936	-9.21327114	-7.0033226
126	0.70008153	9.57678509	6.65884304	-7.88730192	-5.99656868
127	1.73404944	8.69280624	6.36342335	-7.17520761	-5.70190907
128	2.32488823	9.65045071	5.4033103	-6.97876787	-5.62824392
129	0.70008153	9.87144566	4.29548788	-6.97876787	-4.86703968
130	-1.8848381	9.50312042	4.96018124	-6.97876787	-4.98981428
131	-2.84495115	8.39814663	5.25560093	-6.78232813	-6.46311331
132	0.70008153	8.25081635	4.44319725	-7.66630745	-7.66630745
133	1.95561397	9.57678509	3.9262135	-8.45206642	-7.05243301
134	1.29092038	10.23976994	3.70464897	-8.3292923	-6.16845322
135	-0.18617664	10.7554245	4.66476202	-6.63499832	-5.92290401
136	0.40466216	9.42945576	5.69872999	-6.34033823	-6.31578302
137	-0.48159602	8.61914158	5.55102015	-6.92965794	-6.4385581
138	-1.58941877	7.95615673	5.03403616	-6.73321819	-7.10154295
139	-1.58941877	8.39814663	4.29548788	-6.38944817	-7.29798269
140	0.40466216	9.65045071	4.3693428	-6.97876787	-7.02787781
141	1.73404944	9.87144566	5.77258492	-8.05918694	-6.63499784
142	2.69416237	9.72411537	6.43727827	-8.35384655	-6.07023335
143	0.70008153	10.38710022	5.25560093	-7.98552179	-5.65279913
144	-0.77701545	9.28212547	3.03995538	-8.1328516	-6.26667356
145	-0.77701545	8.84013653	4.29548788	-8.3292923	-6.85599279
146	0.92164612	8.25081635	6.73269796	-8.86950111	-7.34709263
147	2.25103331	8.54547596	7.39739132	-8.84494591	-6.73321819

	AT	AU
98	5.42679167	0.6016084
99	4.63900661	1.31553864
100	5.25446367	2.17717838
101	6.46075964	2.05408716
102	6.55923271	0.99550092
103	6.16534042	1.56172144
104	6.41152287	2.74339914
105	6.23919487	2.12794185
106	4.93442631	0.52775353
107	4.51591539	0.62622672
108	4.86057138	1.70943117
109	5.22984552	2.25103331
110	5.1559906	1.98023224
111	5.52526522	1.95561397
112	5.50064659	2.15256023
113	5.45141029	2.07870531
114	5.40217352	1.41401172
115	5.00828123	0.84779125
116	4.71286154	1.38939345
117	4.95904446	2.89110875
118	4.88518953	3.45732927
119	3.72813034	2.52183437
120	2.89110875	1.19244719
121	4.3435874	0.82317299
122	5.57450151	1.19244719
123	4.95904446	1.61095798
124	4.44206047	1.21706545
125	5.67297459	0.42928043
126	6.55923271	1.06935573
127	6.36228657	2.30027008
128	6.2638135	2.22641516
129	6.01763058	1.80790424
130	5.30370045	0.42928043
131	5.05751753	-0.13694009
132	5.25446367	0.55237186
133	5.37755537	2.07870531
134	4.29435062	1.98023224
135	4.66362524	0.55237186
136	5.50064659	-0.38312286
137	6.18995857	-0.0877035
138	6.23919535	0.57699013
139	6.11610365	1.63557625
140	5.72221136	1.95561397
141	5.64835644	1.83252263
142	5.84530258	1.75866771
143	5.94377565	1.63557625
144	5.45141029	0.77393639
145	4.66362524	0.28157073
146	3.8512218	0.45389873
147	3.80198526	1.34015691

	A	B	C	D	E	F	G	H	I	J	K
148								-.003580	-7.37	1.59	-8.84
149								-.003570	-7.08	1.00	-9.29
150								-.003560	-7.37	1.22	-8.99
151								-.003550	-5.46	2.99	-7.89
152								-.003540	-4.57	3.06	-6.05
153								-.003530	-3.54	3.06	-5.90
154								-.003520	-4.28	2.10	-7.81
155								-.003510	-5.82	1.59	-10.39
156								-.003500	-6.41	1.73	-10.10
157								-.003490	-4.87	3.06	-6.93
158								-.003480	-4.06	2.84	-5.46
159								-.003470	-4.72	2.92	-5.60
160								-.003460	-5.46	2.77	-7.15
161								-.003450	-2.95	3.65	-8.70
162								-.003440	-2.66	3.14	-9.51
163								-.003430	-3.91	2.99	-9.14
164								-.003420	-6.12	2.77	-8.18
165								-.003410	-7.00	3.43	-7.00
166								-.003400	-6.71	3.06	-5.82
167								-.003390	-6.71	.55	-6.86
168								-.003380	-7.81	-1.29	-8.11
169								-.003370	-5.90	1.07	-7.59
170								-.003360	-1.55	4.76	-6.49
171								-.003350	-1.33	4.61	-6.78
172								-.003340	-6.27	.85	-7.52
173								-.003330	-7.22	1.07	-6.93
174								-.003320	-4.65	3.14	-6.93
175								-.003310	-2.36	4.39	-8.77
176								-.003300	-3.54	2.92	-9.95
177								-.003290	-4.57	2.40	-10.32
178								-.003280	-4.79	2.62	-10.91
179								-.003270	-4.87	2.92	-11.64
180								-.003260	-5.53	2.32	-12.82
181								-.003250	-4.28	2.47	-10.91
182								-.003240	-3.10	1.22	-8.92
183								-.003230	-1.63	2.62	-7.89
184								-.003220	-3.03	3.65	-7.52
185								-.003210	-5.46	3.21	-6.56
186								-.003200	-6.05	2.03	-7.22
187								-.003190	-5.16	2.92	-8.99
188								-.003180	-6.34	3.21	-9.51
189								-.003170	-7.08	3.06	-8.92
190								-.003160	-5.01	1.66	-7.00
191								-.003150	-1.40	1.51	-6.86
192								-.003140	-3.10	1.29	-8.70
193								-.003130	-5.60	3.06	-8.84
194								-.003120	-5.24	3.58	-6.63
195								-.003110	-2.44	3.21	-6.93
196								-.003100	-3.47	.85	-9.36
197								-.003090	-4.79	.85	-9.73

	L	M	N	O	P	Q	R	S	T
148	6.02	-10.39	3.95	-13.19	.11	-6.19	.33	-2.66	.92
149	5.13	-10.17	5.28	-13.19	.70	-3.32	1.07	-3.69	2.25
150	5.80	-9.07	5.65	-11.72	.48	-3.17	.04	-3.61	3.65
151	7.35	-9.21	4.84	-11.50	.48	-4.43	-.04	-3.39	2.77
152	8.23	-10.17	4.54	-12.97	.55	-4.57	2.03	-2.88	2.55
153	6.39	-9.14	5.43	-13.19	1.29	-2.66	3.95	-2.66	2.18
154	5.21	-7.08	5.57	-12.90	1.59	-4.43	.48	-.15	3.14
155	4.91	-8.99	3.80	-12.09	2.03	-5.01	-1.37	-.30	1.88
156	4.54	-12.53	3.73	-12.01	1.66	-4.13	.11	-1.92	1.59
157	4.76	-11.28	6.61	-12.23	1.73	-2.80	2.77	-3.47	.63
158	5.87	-7.52	8.01	-11.42	1.73	-5.01	1.88	-2.80	-.04
159	6.61	-7.81	6.31	-10.24	2.32	-5.24	1.81	-3.17	-1.07
160	5.43	-11.79	2.77	-11.94	2.03	-3.25	2.47	-3.32	-.63
161	5.50	-11.20	4.69	-12.60	2.92	-2.44	4.10	-3.32	-1.15
162	6.83	-7.96	8.68	-11.35	2.69	-4.28	4.39	-2.88	-1.96
163	7.35	-7.67	8.45	-8.77	.77	-4.94	4.10	-3.25	-1.96
164	6.53	-11.64	4.10	-9.58	-2.03	-4.87	2.92	-3.54	-.04
165	7.35	-13.78	3.58	-10.76	-.19	-4.28	2.69	-5.24	-.04
166	9.56	-12.53	6.61	-11.50	3.95	-5.46	.77	-5.09	-.48
167	8.45	-10.69	7.20	-11.50	5.35	-5.53	-.19	-2.88	-.63
168	5.43	-10.61	4.69	-12.09	3.14	-4.28	.85	-.67	.63
169	3.95	-10.47	4.69	-12.16	1.00	-2.22	3.43	-2.51	.92
170	6.24	-9.43	6.90	-10.61	1.59	-3.54	1.96	-4.50	1.14
171	7.94	-8.70	8.53	-10.47	3.14	-4.28	.48	-4.72	.11
172	7.42	-9.88	6.76	-13.19	3.36	-3.69	1.73	-2.22	-.19
173	6.90	-11.05	5.28	-15.33	1.96	-3.32	4.47	-1.11	.11
174	7.57	-11.50	6.17	-13.85	1.73	-6.63	2.69	-1.40	1.14
175	6.31	-11.79	6.24	-10.10	4.10	-6.63	1.88	-3.25	.55
176	5.28	-12.31	4.17	-9.21	4.39	-4.43	2.77	-3.03	1.00
177	5.72	-11.87	1.88	-11.57	2.62	-2.58	3.88	-2.88	-.26
178	7.13	-10.91	2.92	-14.08	1.00	-4.43	3.06	-2.29	-1.07
179	6.83	-9.29	6.31	-12.68	2.32	-4.28	3.36	-2.66	-1.81
180	6.02	-8.77	7.49	-11.64	2.32	-4.57	2.62	-1.48	.26
181	6.39	-9.43	6.39	-10.83	1.88	-3.61	2.32	-.96	1.07
182	6.09	-10.32	5.35	-12.68	1.81	-4.28	1.88	-1.92	.85
183	5.43	-9.80	5.21	-13.71	5.28	-4.13	3.51	-4.65	-1.07
184	5.80	-8.99	4.98	-13.56	5.43	-4.50	3.06	-4.43	-.63
185	7.86	-8.03	4.25	-10.47	4.61	-3.69	2.03	-5.01	-.19
186	7.86	-10.02	3.95	-8.99	3.06	-3.39	.48	-5.01	1.22
187	5.57	-10.54	5.43	-9.07	3.43	-3.98	-.04	-4.87	1.66
188	4.10	-10.61	5.65	-11.35	3.43	-3.84	.55	-2.80	3.06
189	4.84	-10.32	4.25	-12.09	4.02	-2.73	1.73	-2.29	3.21
190	6.76	-11.05	3.36	-12.68	3.65	-5.16	1.00	-4.13	2.77
191	6.46	-10.76	5.28	-11.20	3.65	-6.34	2.92	-7.08	.33
192	4.39	-10.32	5.80	-10.47	2.69	-5.75	4.98	-6.19	.48
193	3.95	-10.32	5.06	-10.91	1.88	-3.25	4.32	-3.54	1.73
194	6.68	-10.24	6.24	-12.09	2.18	-3.10	.70	-2.51	1.81
195	7.86	-10.24	7.79	-11.20	3.65	-3.10	.40	-4.13	-.19
196	7.79	-10.76	6.02	-11.05	4.47	-4.57	1.44	-4.28	-.85
197	7.49	-10.32	4.25	-12.01	3.36	-3.98	2.62	-4.65	-.63

	U	V	W	X	Y	Z	AA	AB	AC	AD
148	-.003580	8.25	6.73	-8.87	3.85	-7.35	.45		0.00143	-7.37164736
149	-.003570	8.55	7.40	-8.84	3.80	-6.73	1.34		0.00144	-5.45635891
150	-.003560	9.36	6.07	-8.48	4.22	-6.17	1.39		0.00145	-4.57237959
151	-.003550	9.28	4.89	-7.52	5.06	-6.44	1.07		0.00146	-3.5410707
152	-.003540	9.58	4.66	-6.93	5.28	-6.81	1.71		0.00147	-4.27771997
153	-.003530	9.28	4.89	-6.19	4.96	-6.17	2.47		0.00148	-5.82468367
154	-.003520	8.32	6.14	-6.39	4.29	-5.82	1.73		0.00149	-6.41400337
155	-.003510	8.55	6.51	-8.40	3.43	-5.80	.85		0.0015	-4.86703968
156	-.003500	8.55	4.44	-9.68	3.33	-6.02	1.12		0.00151	-4.05672503
157	-.003490	9.50	3.78	-7.69	4.81	-6.17	1.71		0.00152	-4.71970987
158	-.003480	9.87	4.81	-5.68	5.57	-6.41	1.19		0.00153	-5.45635891
159	-.003470	10.02	6.73	-6.05	5.28	-6.22	1.02		0.00154	-2.95175099
160	-.003460	10.02	6.14	-8.13	3.65	-6.17	1.29		0.00155	-2.65709138
161	-.003450	9.87	4.89	-7.62	4.61	-6.12	1.96		0.00156	-3.90939546
162	-.003440	9.72	5.33	-6.71	6.21	-6.17	1.71		0.00157	-6.11934376
163	-.003430	10.02	6.66	-6.91	6.26	-5.65	.97		0.00158	-7.00332308
164	-.003420	10.39	5.77	-8.65	4.47	-6.00	.28		0.00159	-6.70866299
165	-.003410	11.27	4.44	-9.26	4.79	-6.76	.82		0.0016	-6.70866299
166	-.003400	9.72	3.19	-8.35	6.41	-7.35	1.41		0.00161	-7.81363726
167	-.003390	8.69	4.00	-8.08	5.40	-6.63	1.51		0.00162	-5.89834881
168	-.003380	8.84	3.93	-8.84	2.94	-5.68	1.54		0.00163	-1.55211723
169	-.003370	11.34	4.59	-7.99	3.24	-5.63	1.78		0.00164	-1.3311224
170	-.003360	10.98	4.22	-5.82	5.97	-6.22	1.56		0.00165	-6.26667356
171	-.003350	8.99	4.96	-5.60	7.03	-6.49	1.24		0.00166	-7.22431755
172	-.003340	8.91	5.33	-7.89	5.01	-6.36	1.64		0.00167	-4.64604473
173	-.003330	10.17	4.15	-8.40	4.42	-6.59	2.18		0.00168	-2.36243153
174	-.003320	9.87	4.52	-7.69	5.62	-7.30	1.86		0.00169	-3.5410707
175	-.003310	9.36	5.03	-7.64	5.65	-6.66	2.18		0.0017	-4.57237959
176	-.003300	9.87	5.33	-8.60	4.12	-5.55	2.72		0.00171	-4.79337454
177	-.003290	10.90	5.99	-8.92	3.33	-5.68	2.08		0.00172	-4.86703968
178	-.003280	8.84	5.55	-8.87	4.22	-6.93	1.00		0.00173	-5.53002405
179	-.003270	8.03	5.77	-8.60	5.35	-6.54	1.29		0.00174	-4.27771997
180	-.003260	7.88	5.48	-9.04	5.28	-5.90	1.73		0.00175	-3.09908104
181	-.003250	9.21	4.37	-8.21	5.08	-5.14	1.76		0.00176	-1.62578213
182	-.003240	10.61	3.19	-7.45	4.22	-6.29	1.51		0.00177	-3.02541614
183	-.003230	11.64	2.89	-6.44	4.42	-7.49	2.57		0.00178	-5.45635891
184	-.003220	10.68	4.66	-6.51	4.81	-7.49	2.62		0.00179	-6.04567862
185	-.003210	8.99	6.29	-6.68	5.11	-6.39	2.15		0.0018	-5.1616993
186	-.003200	7.66	5.85	-7.76	4.61	-5.80	1.59		0.00181	-6.34033823
187	-.003190	9.28	5.99	-8.23	4.64	-5.97	1.68		0.00182	-7.07698774
188	-.003180	7.74	4.74	-8.82	4.32	-6.00	2.35		0.00183	-5.01436949
189	-.003170	7.37	4.96	-8.77	4.05	-5.70	2.99		0.00184	-1.4047873
190	-.003160	7.59	4.15	-7.69	3.93	-7.32	2.47		0.00185	-3.09908104
191	-.003150	10.53	4.81	-6.34	4.42	-8.21	2.30		0.00186	-5.60368919
192	-.003140	12.60	4.07	-7.37	3.83	-7.47	2.72		0.00187	-5.23536444
193	-.003130	10.90	3.34	-8.26	4.02	-5.90	2.64		0.00188	-2.43609643
194	-.003120	8.10	4.37	-7.37	5.50	-5.90	1.56		0.00189	-3.4674058
195	-.003110	8.18	7.03	-6.54	6.29	-6.14	1.29		0.0019	-4.79337454
196	-.003100	10.31	7.77	-7.86	4.89	-6.63	1.68		0.00191	-5.60368919
197	-.003090	12.45	6.88	-8.28	4.20	-6.88	1.78		0.00192	-4.64604473

	AE	AF	AG	AH	AI
148	-8.99227619	-9.06594086	-11.7178793	-3.17274594	-3.6147356
149	-7.88730192	-9.21327114	-11.49688435	-4.42504978	-3.39374065
150	-6.04567862	-10.1709156	-12.97018337	-4.57237959	-2.87808609
151	-5.89834881	-9.13960648	-13.19117832	-2.65709138	-2.65709138
152	-7.81363726	-7.07698774	-12.89651775	-4.42504978	-0.15248336
153	-10.39191055	-8.99227619	-12.08620358	-5.01436949	-0.29981324
154	-10.09724998	-12.52819347	-12.01253891	-4.13039017	-1.92044199
155	-6.92965794	-11.2758894	-12.23353386	-2.80442119	-3.4674058
156	-5.45635891	-7.51897764	-11.42321968	-5.01436949	-2.80442119
157	-5.60368919	-7.81363726	-10.24458027	-5.23536444	-3.17274594
158	-7.15065289	-11.79154396	-11.93887424	-3.24641085	-3.32007575
159	-8.69761658	-11.20222473	-12.60185814	-2.43609643	-3.32007575
160	-9.50793076	-7.96096706	-11.34955406	-4.27771997	-2.87808609
161	-9.13960648	-7.66630745	-8.77128124	-4.94070435	-3.24641085
162	-8.18196201	-11.64421368	-9.58159542	-4.86703968	-3.5410707
163	-7.00332308	-13.78049755	-10.76023483	-4.27771997	-5.23536444
164	-5.82468367	-12.52819347	-11.49688435	-5.45635891	-5.08803463
165	-6.85599279	-10.68657017	-11.49688435	-5.53002405	-2.87808609
166	-8.10829735	-10.61290455	-12.08620358	-4.27771997	-0.66813797
167	-7.59264231	-10.46557522	-12.15986919	-2.21510172	-2.50976157
168	-6.48766804	-9.43426609	-10.61290455	-3.5410707	-4.49871492
169	-6.78232813	-8.69761658	-10.46557522	-4.27771997	-4.71970987
170	-7.51897764	-9.87625599	-13.19117832	-3.68840051	-2.21510172
171	-6.92965794	-11.05489445	-15.32746124	-3.32007575	-1.11012757
172	-6.92965794	-11.49688435	-13.85416222	-6.63499832	-1.4047873
173	-8.77128124	-11.79154396	-10.09724998	-6.63499832	-3.24641085
174	-9.94992065	-12.30719852	-9.21327114	-4.42504978	-3.02541614
175	-10.31824493	-11.86520863	-11.57054901	-2.58342648	-2.87808609
176	-10.90756512	-10.90756512	-14.07515717	-4.42504978	-2.28876662
177	-11.64421368	-9.28693581	-12.67552376	-4.27771997	-2.65709138
178	-12.82285309	-8.77128124	-11.64421368	-4.57237959	-1.47845232
179	-10.90756512	-9.43426609	-10.8338995	-3.6147356	-0.9627977
180	-8.91861153	-10.31824493	-12.67552376	-4.27771997	-1.92044199
181	-7.88730192	-9.80259037	-13.70683289	-4.13039017	-4.64604473
182	-7.51897764	-8.99227619	-13.5595026	-4.49871492	-4.42504978
183	-6.56133318	-8.03463173	-10.46557522	-3.68840051	-5.01436949
184	-7.22431755	-10.02358532	-8.99227619	-3.39374065	-5.01436949
185	-8.99227619	-10.53923988	-9.06594086	-3.98306036	-4.86703968
186	-9.50793076	-10.61290455	-11.34955406	-3.83573031	-2.80442119
187	-8.91861153	-10.31824493	-12.08620358	-2.73075628	-2.28876662
188	-7.00332308	-11.05489445	-12.67552376	-5.1616993	-4.13039017
189	-6.85599279	-10.76023483	-11.20222473	-6.34033823	-7.07698774
190	-8.69761658	-10.31824493	-10.46557522	-5.751019	-6.19300842
191	-8.84494591	-10.31824493	-10.90756512	-3.24641085	-3.5410707
192	-6.63499832	-10.24458027	-12.08620358	-3.09908104	-2.50976157
193	-6.92965794	-10.24458027	-11.20222473	-3.09908104	-4.13039017
194	-9.36060143	-10.76023483	-11.05489445	-4.57237959	-4.27771997
195	-9.7289257	-10.31824493	-12.01253891	-3.98306036	-4.64604473
196	-6.41400337	-10.31824493	-12.52819347	-4.05672503	-4.71970987
197	-5.1616993	-10.02358532	-10.90756512	-4.20405531	-5.1616993

	AJ	AK	AL	AM	AN
148	1.21706545	5.79606628	5.64835644	0.478517	0.03538791
149	2.98958182	7.34701777	4.83595324	0.478517	-0.03846694
150	3.06343675	8.23327637	4.54053354	0.55237186	2.02946877
151	3.06343675	6.38690472	5.42679167	1.29092038	3.94969487
152	2.1033237	5.20522738	5.57450151	1.58633971	0.478517
153	1.58633971	4.90980816	3.80198526	2.02946877	-1.36785424
154	1.73404944	4.54053354	3.72813034	1.66019464	0.10924275
155	3.06343675	4.76209831	6.60846949	1.73404944	2.76801729
156	2.84187222	5.86992073	8.01171112	1.73404944	1.88175917
157	2.9157269	6.60846949	6.31305027	2.32488823	1.80790424
158	2.76801729	5.42679167	2.76801729	2.02946877	2.47259784
159	3.65427542	5.50064659	4.68824339	2.9157269	4.09740448
160	3.13729167	6.83003378	8.67640495	2.69416237	4.39282417
161	2.98958182	7.34701777	8.45484066	0.77393639	4.09740448
162	2.76801729	6.53461456	4.09740448	-2.03254795	2.9157269
163	3.43271089	7.34701777	3.58042073	-0.18617664	2.69416237
164	3.06343675	9.56266308	6.60846949	3.94969487	0.77393639
165	0.55237186	8.45484066	7.1993084	5.35293722	-0.18617664
166	-1.29399931	5.42679167	4.68824339	3.13729167	0.84779125
167	1.06935585	3.94969487	4.68824339	0.99550092	3.43271089
168	4.76209831	6.23919535	6.9038887	1.58633971	1.95561397
169	4.61438847	7.93785667	8.52869511	3.13729167	0.478517
170	0.84779125	7.42087269	6.75617933	3.3588562	1.73404944
171	1.06935585	6.9038887	5.2790823	1.95561397	4.46667862
172	3.13729167	7.56858253	6.16534042	1.73404944	2.69416237
173	4.39282417	6.31305027	6.23919535	4.09740448	1.88175917
174	2.9157269	5.2790823	4.1712594	4.39282417	2.76801729
175	2.39874315	5.72221136	1.88175917	2.62030768	3.87583995
176	2.62030768	7.12545347	2.9157269	0.99550092	3.06343675
177	2.9157269	6.83003378	6.31305027	2.32488823	3.3588562
178	2.32488823	6.01763058	7.49472761	2.32488823	2.62030768
179	2.47259784	6.38690472	6.38690472	1.88175917	2.32488823
180	1.21706545	6.0914855	5.35293722	1.80790424	1.88175917
181	2.62030768	5.42679167	5.20522738	5.2790823	3.50656581
182	3.65427542	5.79606628	4.98366261	5.42679167	3.06343675
183	3.21114635	7.86400175	4.24511433	4.61438847	2.02946877
184	2.02946877	7.86400175	3.94969487	3.06343675	0.478517
185	2.9157269	5.57450151	5.42679167	3.43271089	-0.03846694
186	3.21114635	4.09740448	5.64835644	3.43271089	0.55237186
187	3.06343675	4.83595324	4.24511433	4.02354956	1.73404944
188	1.66019464	6.75617933	3.3588562	3.65427542	0.99550092
189	1.51248491	6.46075964	5.2790823	3.65427542	2.9157269
190	1.29092038	4.39282417	5.79606628	2.69416237	4.98366261
191	3.06343675	3.94969487	5.05751753	1.88175917	4.31896925
192	3.58042073	6.68232441	6.23919535	2.17717862	0.70008153
193	3.21114635	7.86400175	7.79014683	3.65427542	0.40466216
194	0.84779125	7.79014683	6.01763058	4.46667862	1.43862998
195	0.84779125	7.49472761	4.24511433	3.3588562	2.62030768
196	2.62030768	8.52869511	4.02354956	1.36477518	1.21706545
197	3.87583995	8.52869511	4.54053354	1.80790424	1.21706545

	AO	AP	AQ	AR	AS
148	3.65427542	9.35579109	6.06800413	-8.47662163	-6.16845369
149	2.76801729	9.28212547	4.88632631	-7.51897717	-6.4385581
150	2.54645276	9.57678509	4.66476202	-6.92965794	-6.80688286
151	2.17717862	9.28212547	4.88632631	-6.19300842	-6.16845369
152	3.13729167	8.32448196	6.14185905	-6.38944817	-5.82468367
153	1.88175917	8.54547596	6.51113319	-8.40295696	-5.80012894
154	1.58633971	8.54547596	4.44319725	-9.67981529	-6.02112389
155	0.62622672	9.50312042	3.77850389	-7.69086218	-6.16845369
156	-0.03846694	9.87144566	4.81247187	-5.67735386	-6.41400337
157	-1.07243478	10.01877499	6.73269796	-6.04567862	-6.21756363
158	-0.62930572	10.01877499	6.14185905	-8.1328516	-6.16845369
159	-1.14628971	9.87144566	4.88632631	-7.61719751	-6.11934328
160	-1.95869303	9.72411537	5.32945538	-6.70866299	-6.16845322
161	-1.95869303	10.01877499	6.65884304	-6.90510321	-5.65279865
162	-0.03846694	10.38710022	5.77258492	-8.64850616	-5.99656868
163	-0.03846694	11.27107906	4.44319725	-9.26238155	-6.75777292
164	-0.48159602	9.72411537	3.18766499	-8.35384655	-7.34709263
165	-0.62930572	8.69280624	4.00006819	-8.08374214	-6.63499832
166	0.62622672	8.84013653	3.9262135	-8.84494591	-5.67735386
167	0.92164612	11.34474373	4.5909071	-7.98552227	-5.6282444
168	1.14321065	10.97641945	4.22163296	-5.82468367	-6.21756363
169	0.10924275	8.98746586	4.96018124	-5.60368919	-6.48766851
170	-0.18617664	8.91380119	5.32945538	-7.8873024	-6.36489344
171	0.10924275	10.16610527	4.14777803	-8.40295696	-6.58588839
172	1.14321065	9.87144566	4.51705217	-7.69086218	-7.29798269
173	0.55237186	9.35579109	5.03403616	-7.64175224	-6.65955305
174	0.99550092	9.87144566	5.32945538	-8.59939671	-5.55457878
175	-0.26003149	10.90275478	5.99414921	-8.91861153	-5.67735386
176	-1.07243478	8.84013653	5.55102015	-8.86950111	-6.92965794
177	-1.8109833	8.0298214	5.77258492	-8.59939671	-6.53677845
178	0.25695246	7.88249207	5.47716522	-9.04138565	-5.89834833
179	1.06935585	9.20846081	4.3693428	-8.20651722	-5.13714409
180	0.84779125	10.60809422	3.18766499	-7.4453125	-6.29122877
181	-1.07243478	11.6394043	2.89224553	-6.4385581	-7.49442244
182	-0.62930572	10.68175983	4.66476202	-6.51222324	-7.49442244
183	-0.18617664	8.98746586	6.28956842	-6.68410778	-6.38944817
184	1.21706545	7.66149712	5.84643936	-7.76452732	-5.80012894
185	1.66019464	9.28212547	5.99414921	-8.23107147	-5.97201347
186	3.06343675	7.73516178	4.73861694	-8.8203907	-5.99656868
187	3.21114635	7.36683702	4.96018124	-8.77128124	-5.70190907
188	2.76801729	7.58783197	4.14777803	-7.69086218	-7.3225379
189	0.3308073	10.53442955	4.81247187	-6.34033823	-8.20651722
190	0.478517	12.59704781	4.07392311	-7.37164736	-7.46986771
191	1.73404944	10.90275478	3.33537459	-8.25562668	-5.89834881
192	1.80790424	8.10348701	4.3693428	-7.37164783	-5.89834881
193	-0.18617664	8.17715168	7.02811718	-6.53677845	-6.14389849
194	-0.85087025	10.3134346	7.76666546	-7.86274719	-6.63499784
195	-0.62930572	12.44971848	6.88040733	-8.28018188	-6.880548
196	0.40466216	11.34474373	4.51705217	-7.4453125	-7.10154295
197	0.1830976	10.60809422	5.03403616	-6.61044312	-6.7577734

	AT	AU
148	4.22049618	1.38939345
149	5.05751753	1.06935573
150	5.2790823	1.70943117
151	4.95904446	2.47259808
152	4.29435062	1.73404944
153	3.43271112	0.84779125
154	3.33423781	1.11859238
155	4.81133461	1.70943117
156	5.57450151	1.19244719
157	5.2790823	1.02011919
158	3.65427542	1.29092026
159	4.61438847	1.95561385
160	6.21457672	1.70943117
161	6.2638135	0.97088259
162	4.46667862	0.28157067
163	4.78671646	0.82317293
164	6.41152287	1.41401172
165	5.40217352	1.51248491
166	2.94034529	1.53710318
167	3.23576474	1.78328598
168	5.96839428	1.56172144
169	7.02697992	1.24168384
170	5.00828123	1.63557637
171	4.41744232	2.17717838
172	5.62373829	1.85714078
173	5.64835644	2.17717838
174	4.12202263	2.71878076
175	3.33423781	2.07870531
176	4.22049618	0.99550098
177	5.35293674	1.29092038
178	5.2790823	1.73404944
179	5.08213568	1.75866771
180	4.22049618	1.51248491
181	4.41744232	2.57107115
182	4.81133461	2.62030745
183	5.1067543	2.15256023
184	4.61438847	1.58633971
185	4.63900661	1.6848129
186	4.31896925	2.34950638
187	4.04816818	2.98958182
188	3.92507672	2.47259784
189	4.41744232	2.30026984
190	3.82660365	2.71878076
191	4.02354956	2.64492607
192	5.50064659	1.56172144
193	6.28843164	1.29092026
194	4.88518953	1.68481278
195	4.19587755	1.78328609
196	5.05751753	0.99550092
197	5.64835644	1.06935573

	A	B	C	D	E	F	G	H	I	J	K
198								-.003080	-5.60	2.62	-6.41
199								-.003070	-4.65	3.88	-5.16
200								-.003060	-4.57	2.03	-8.03
201								-.003050	-3.32	2.55	-9.95
202								-.003040	-3.84	4.76	-7.67
203								-.003030	-5.46	5.87	-6.41
204								-.003020	-7.59	3.51	-8.84
205								-.003010	-6.63	1.73	-9.58
206								-.003000	-4.94	2.03	-8.03
207								-.002990	-4.28	4.61	-6.71
208								-.002980	-5.75	5.06	-8.99
209								-.002970	-5.01	3.80	-10.24
210								-.002960	-3.84	3.36	-9.14
211								-.002950	-4.28	4.54	-6.78
212								-.002940	-7.37	3.51	-6.34
213								-.002930	-7.74	1.73	-7.08
214								-.002920	-4.94	2.77	-7.81
215								-.002910	-3.10	5.35	-6.78
216								-.002900	-5.01	4.54	-5.53
217								-.002890	-5.46	3.95	-6.93
218								-.002880	-5.38	4.25	-9.43
219								-.002870	-6.05	5.13	-7.96
220								-.002860	-7.67	3.51	-7.15
221								-.002850	-5.82	3.65	-9.14
222								-.002840	-3.69	3.88	-9.66
223								-.002830	-2.95	4.39	-7.08
224								-.002820	-4.50	2.92	-5.90
225								-.002810	-4.50	2.55	-6.63
226								-.002800	-4.13	3.14	-7.45
227								-.002790	-2.95	5.43	-7.22
228								-.002780	-3.47	5.72	-8.03
229								-.002770	-4.06	4.32	-8.55
230								-.002760	-5.31	2.25	-8.11
231								-.002750	-4.72	2.92	-6.71
232								-.002740	-5.46	3.36	-8.33
233								-.002730	-6.71	3.21	-8.77
234								-.002720	-6.41	2.10	-7.74
235								-.002710	-3.10	2.92	-5.90
236								-.002700	-4.06	3.21	-6.19
237								-.002690	-6.63	4.25	-6.86
238								-.002680	-7.37	3.36	-7.81
239								-.002670	-4.35	2.47	-8.11
240								-.002660	-3.84	2.32	-8.33
241								-.002650	-4.94	4.54	-8.84
242								-.002640	-4.43	5.21	-8.03
243								-.002630	-2.66	3.21	-6.63
244								-.002620	-4.06	1.59	-6.41
245								-.002610	-6.19	3.95	-6.93
246								-.002600	-6.41	6.24	-7.67
247								-.002590	-4.28	5.43	-7.81

	L	M	N	O	P	Q	R	S	T
198	8.53	-10.32	4.02	-12.53	1.36	-4.06	1.22	-4.72	.40
199	8.53	-10.02	4.54	-10.91	1.81	-4.20	1.22	-5.16	.18
200	7.49	-10.32	3.06	-10.76	3.80	-5.09	1.22	-3.84	-.33
201	6.61	-9.14	5.28	-11.13	4.54	-3.84	2.62	-3.10	-1.37
202	6.53	-9.07	8.31	-11.13	3.14	-2.95	1.81	-2.58	.11
203	6.90	-10.69	8.60	-9.88	3.58	-2.29	.85	-4.57	1.66
204	7.27	-12.23	5.72	-10.17	5.13	-4.13	.11	-5.90	2.77
205	8.82	-10.98	4.84	-10.10	6.90	-3.98	3.29	-6.12	1.22
206	8.68	-9.73	5.57	-12.16	5.72	-4.20	5.13	-3.84	2.32
207	7.27	-10.61	6.90	-12.90	4.10	-4.20	3.80	-4.79	3.36
208	6.31	-11.35	7.20	-12.82	3.36	-4.57	-.19	-4.43	3.21
209	8.90	-10.91	5.57	-10.47	5.21	-3.61	-1.22	-3.32	2.18
210	9.64	-9.88	4.54	-10.61	4.39	-2.88	.33	-1.92	3.88
211	8.16	-7.37	6.09	-11.42	2.92	-1.99	1.88	-3.98	3.95
212	6.90	-7.59	8.38	-12.01	2.25	-2.95	1.81	-5.53	3.95
213	7.79	-10.17	8.38	-11.50	3.73	-3.39	1.66	-5.46	3.21
214	8.68	-12.31	7.64	-12.53	3.73	-3.98	1.44	-3.69	3.21
215	9.34	-10.47	7.94	-12.68	4.32	-4.43	1.07	-2.58	3.73
216	8.16	-9.21	7.42	-13.41	3.06	-7.00	.33	-1.99	4.02
217	7.13	-10.17	5.72	-12.82	1.73	-6.56	1.44	-2.29	2.62
218	6.90	-11.72	5.35	-12.38	1.00	-4.57	1.14	-2.14	1.96
219	6.68	-11.64	6.98	-11.35	2.25	-2.80	1.36	-3.54	1.00
220	5.50	-10.91	7.57	-11.20	3.43	-3.84	.55	-4.13	1.14
221	5.35	-10.61	7.20	-10.91	3.58	-3.61	.40	-3.10	1.73
222	6.31	-10.17	6.61	-11.87	2.92	-4.06	-1.37	-1.40	3.88
223	6.83	-9.58	6.90	-12.23	3.36	-4.13	-1.52	-5.09	2.92
224	6.31	-10.02	7.79	-12.23	3.51	-5.31	-1.00	-8.55	.85
225	6.46	-10.83	8.45	-10.91	3.36	-4.13	.48	-7.15	.48
226	7.94	-12.23	7.20	-10.69	1.73	-3.84	-.70	-2.29	3.36
227	9.86	-12.23	5.28	-10.91	2.18	-3.17	-.70	-2.66	3.95
228	9.64	-11.72	5.13	-11.79	3.80	-4.35	.18	-4.43	2.62
229	8.53	-10.10	7.27	-11.50	4.39	-4.65	1.73	-4.20	-.48
230	7.94	-9.07	8.38	-12.09	3.06	-5.16	1.36	-1.18	-2.18
231	9.05	-8.33	8.53	-12.23	2.84	-4.06	1.00	-2.22	-3.36
232	9.12	-9.14	8.09	-12.53	3.21	-5.16	-.48	-3.76	-1.07
233	9.27	-9.73	8.68	-12.09	3.06	-5.68	-.63	-4.57	1.59
234	9.05	-10.17	9.71	-12.45	1.59	-4.65	-.04	-3.84	2.69
235	9.19	-10.54	10.01	-12.23	2.55	-2.29	1.88	-4.13	1.29
236	8.45	-10.61	10.15	-12.45	3.80	-2.95	2.18	-3.76	.77
237	7.57	-10.69	11.11	-11.42	4.61	-3.76	1.07	-3.98	.63
238	6.02	-11.50	10.67	-11.57	3.29	-4.20	.04	-2.36	1.73
239	6.31	-11.79	9.27	-12.23	1.88	-2.80	.55	-1.92	1.51
240	8.53	-12.23	7.94	-13.04	.70	-2.22	1.00	-2.58	.92
241	10.08	-12.16	7.86	-11.28	2.18	-2.22	1.66	-4.43	.26
242	9.71	-11.79	8.23	-9.73	3.14	-3.98	.70	-2.73	1.73
243	7.49	-11.28	7.94	-10.32	2.25	-3.61	1.22	-2.07	1.66
244	6.09	-10.83	7.64	-12.45	1.07	-3.25	.40	-2.95	1.36
245	6.76	-10.69	7.13	-10.98	2.25	-2.22	-.19	-4.43	1.22
246	7.05	-10.54	6.90	-9.95	1.22	-3.10	-1.37	-2.44	1.36
247	8.01	-11.05	6.39	-11.42	- 78	-1.92	40	-2.36	- 41

	U	V	W	X	Y	Z	AA	AB	AC	AD
198	-.003080	11.34	4.52	-7.45	5.06	-7.10	1.00		0.00193	-4.57237959
199	-.003070	10.61	5.03	-6.61	5.65	-6.76	1.07		0.00194	-3.32007575
200	-.003060	9.87	4.96	-7.64	4.20	-6.56	1.56		0.00195	-3.83573031
201	-.003050	9.36	6.88	-7.47	4.81	-6.02	1.93		0.00196	-5.45635891
202	-.003040	9.43	8.28	-6.86	6.53	-5.55	1.68		0.00197	-7.59264231
203	-.003030	10.61	6.73	-7.52	7.13	-5.58	2.03		0.00198	-6.63499832
204	-.003020	11.20	3.93	-9.56	5.50	-6.73	2.67		0.00199	-4.94070435
205	-.003010	10.02	2.89	-9.07	5.13	-6.73	3.80		0.002	-4.27771997
206	-.003000	7.96	3.04	-7.57	5.43	-6.73	4.39		0.00201	-5.751019
207	-.002990	7.96	5.03	-7.20	6.26	-7.30	3.75		0.00202	-5.01436949
208	-.002980	6.78	4.07	-8.70	6.19	-7.27	2.13		0.00203	-3.83573031
209	-.002970	8.40	3.63	-8.72	6.09	-5.80	2.05		0.00204	-4.27771997
210	-.002960	8.69	2.89	-7.62	5.85	-5.14	2.87		0.00205	-7.37164736
211	-.002950	9.28	5.40	-6.14	6.26	-5.80	2.92		0.00206	-7.73997211
212	-.002940	8.25	7.10	-7.10	6.26	-6.83	2.67		0.00207	-4.94070435
213	-.002930	8.99	6.73	-8.33	5.97	-6.78	2.87		0.00208	-3.09908104
214	-.002920	9.50	5.18	-8.35	6.36	-6.73	2.79		0.00209	-5.01436949
215	-.002910	10.09	5.26	-6.78	7.54	-6.56	3.04		0.0021	-5.45635891
216	-.002900	9.43	5.99	-6.59	6.71	-7.47	2.47		0.00211	-5.38269424
217	-.002890	10.02	6.73	-7.52	5.60	-7.22	1.93		0.00212	-6.04567862
218	-.002880	9.36	5.55	-8.84	5.50	-6.36	1.36		0.00213	-7.66630745
219	-.002870	10.31	5.92	-8.55	6.26	-5.90	1.54		0.00214	-5.82468367
220	-.002860	9.43	6.14	-8.57	5.53	-6.39	1.71		0.00215	-3.68840051
221	-.002850	9.72	7.03	-8.53	5.40	-5.87	1.91		0.00216	-2.95175099
222	-.002840	10.68	7.25	-7.84	5.60	-5.78	1.81		0.00217	-4.49871492
223	-.002830	11.64	7.32	-6.54	6.04	-7.15	1.59		0.00218	-4.49871492
224	-.002820	11.20	8.65	-6.81	5.67	-8.70	1.12		0.00219	-4.13039017
225	-.002810	8.69	8.80	-7.32	5.82	-7.40	1.44		0.0022	-2.95175099
226	-.002800	7.07	7.03	-7.94	6.09	-5.60	1.46		0.00221	-3.4674058
227	-.002790	8.40	6.29	-7.47	6.85	-5.58	1.81		0.00222	-4.05672503
228	-.002780	9.95	6.58	-7.74	6.83	-6.86	2.20		0.00223	-5.3090291
229	-.002770	11.34	7.62	-7.57	6.71	-6.78	1.88		0.00224	-4.71970987
230	-.002760	10.39	5.85	-7.49	6.19	-6.14	.75		0.00225	-5.45635891
231	-.002750	10.02	5.99	-6.59	6.83	-6.17	.16		0.00226	-6.70866299
232	-.002740	8.03	5.11	-7.64	6.85	-7.15	.55		0.00227	-6.41400337
233	-.002730	9.65	6.22	-8.40	7.05	-7.45	1.34		0.00228	-3.09908104
234	-.002720	11.42	5.40	-8.11	6.95	-6.98	1.41		0.00229	-4.05672503
235	-.002710	11.05	4.00	-6.51	7.37	-6.22	1.91		0.0023	-6.63499832
236	-.002700	8.99	3.41	-6.95	7.27	-6.39	2.25		0.00231	-7.37164736
237	-.002690	8.25	4.59	-8.06	7.64	-6.39	2.10		0.00232	-4.35138512
238	-.002680	7.66	4.52	-8.89	6.68	-6.05	1.68		0.00233	-3.83573031
239	-.002670	8.18	3.63	-8.08	6.02	-5.65	1.32		0.00234	-4.94070435
240	-.002660	8.91	3.19	-8.13	6.26	-5.95	.87		0.00235	-4.42504978
241	-.002650	11.42	5.18	-8.65	7.49	-5.97	1.36		0.00236	-2.65709138
242	-.002640	10.76	6.58	-8.08	7.72	-5.48	1.86		0.00237	-4.05672503
243	-.002630	8.99	7.84	-6.86	6.21	-5.33	1.71		0.00238	-6.19300842
244	-.002620	8.55	8.51	-7.10	5.11	-6.22	.95		0.00239	-6.41400337
245	-.002610	9.36	7.40	-7.94	5.94	-5.87	1.09		0.0024	-4.27771997
246	-.002600	9.36	4.30	-8.21	6.73	-5.16	.40		0.00241	-3.83573031
247	-.002590	9.72	3.70	-7.72	6.61	-5.24	-.26		0.00242	-5.60368919

	AE	AF	AG	AH	AI
198	-8.03463173	-10.31824493	-10.76023483	-5.08803463	-3.83573031
199	-9.94992065	-9.13960648	-11.12855911	-3.83573031	-3.09908104
200	-7.66630745	-9.06594086	-11.12855911	-2.95175099	-2.58342648
201	-6.41400337	-10.68657017	-9.87625599	-2.28876662	-4.57237959
202	-8.84494591	-12.23353386	-10.1709156	-4.13039017	-5.89834881
203	-9.58159542	-10.98122978	-10.09724998	-3.98306036	-6.11934376
204	-8.03463173	-9.7289257	-12.15986919	-4.20405531	-3.83573031
205	-6.70866299	-10.61290455	-12.89651775	-4.20405531	-4.79337454
206	-8.99227619	-11.34955406	-12.82285309	-4.57237959	-4.42504978
207	-10.24458027	-10.90756512	-10.46557522	-3.6147356	-3.32007575
208	-9.13960648	-9.87625599	-10.61290455	-2.87808609	-1.92044199
209	-6.78232813	-7.37164736	-11.42321968	-1.99410689	-3.98306036
210	-6.34033823	-7.59264231	-12.01253891	-2.95175099	-5.53002405
211	-7.07698774	-10.1709156	-11.49688435	-3.39374065	-5.45635891
212	-7.81363726	-12.30719852	-12.52819347	-3.98306036	-3.68840051
213	-6.78232813	-10.46557522	-12.67552376	-4.42504978	-2.58342648
214	-5.53002405	-9.21327114	-13.41217232	-7.00332308	-1.99410689
215	-6.92965794	-10.1709156	-12.82285309	-6.56133318	-2.28876662
216	-9.43426609	-11.7178793	-12.38086319	-4.57237959	-2.14143682
217	-7.96096706	-11.64421368	-11.34955406	-2.80442119	-3.5410707
218	-7.15065289	-10.90756512	-11.20222473	-3.83573031	-4.13039017
219	-9.13960648	-10.61290455	-10.90756512	-3.6147356	-3.09908104
220	-9.65526104	-10.1709156	-11.86520863	-4.05672503	-1.4047873
221	-7.07698774	-9.58159542	-12.23353386	-4.13039017	-5.08803463
222	-5.89834881	-10.02358532	-12.23353386	-5.3090291	-8.55028629
223	-6.63499832	-10.8338995	-10.90756512	-4.13039017	-7.15065289
224	-7.4453125	-12.23353386	-10.68657017	-3.83573031	-2.28876662
225	-7.22431755	-12.23353386	-10.90756512	-3.17274594	-2.65709138
226	-8.03463173	-11.7178793	-11.79154396	-4.35138512	-4.42504978
227	-8.55028629	-10.09724998	-11.49688435	-4.64604473	-4.20405531
228	-8.10829735	-9.06594086	-12.08620358	-5.1616993	-1.18379247
229	-6.70866299	-8.32929134	-12.23353386	-4.05672503	-2.21510172
230	-8.32929134	-9.13960648	-12.52819347	-5.1616993	-3.76206541
231	-8.77128124	-9.7289257	-12.08620358	-5.67735386	-4.57237959
232	-7.73997211	-10.1709156	-12.45452881	-4.64604473	-3.83573031
233	-5.89834881	-10.53923988	-12.23353386	-2.28876662	-4.13039017
234	-6.19300842	-10.61290455	-12.45452881	-2.95175099	-3.76206541
235	-6.85599279	-10.68657017	-11.42321968	-3.76206541	-3.98306036
236	-7.81363726	-11.49688435	-11.57054901	-4.20405531	-2.36243153
237	-8.10829735	-11.79154396	-12.23353386	-2.80442119	-1.92044199
238	-8.32929134	-12.23353386	-13.04384804	-2.21510172	-2.58342648
239	-8.84494591	-12.15986919	-11.2758894	-2.21510172	-4.42504978
240	-8.03463173	-11.79154396	-9.7289257	-3.98306036	-2.73075628
241	-6.63499832	-11.2758894	-10.31824493	-3.6147356	-2.06777191
242	-6.41400337	-10.8338995	-12.45452881	-3.24641085	-2.95175099
243	-6.92965794	-10.68657017	-10.98122978	-2.21510172	-4.42504978
244	-7.66630745	-10.53923988	-9.94992065	-3.09908104	-2.43609643
245	-7.81363726	-11.05489445	-11.42321968	-1.92044199	-2.36243153
246	-8.77128124	-11.05489445	-13.78049755	-2.14143682	-2.36243153
247	-8.25562668	-10.61290455	-12.97018337	-1.99410689	-4.35138512

	AJ	AK	AL	AM	AN
198	2.02946877	7.49472761	3.06343675	3.80198526	1.21706545
199	2.54645276	6.60846949	5.2790823	4.54053354	2.62030768
200	4.76209831	6.53461456	8.30713081	3.13729167	1.80790424
201	5.86992073	6.9038887	8.60255051	3.58042073	0.84779125
202	3.50656581	7.27316332	5.72221136	5.13137245	0.10924275
203	1.73404944	8.8241148	4.83595324	6.9038887	3.28500128
204	2.02946877	8.67640495	5.57450151	5.72221136	5.13137245
205	4.61438847	7.27316332	6.9038887	4.09740448	3.80198526
206	5.05751753	6.31305027	7.1993084	3.3588562	-0.18617664
207	3.80198526	8.8979702	5.57450151	5.20522738	-1.22014451
208	3.3588562	9.63651848	4.54053354	4.39282417	0.3308073
209	4.54053354	8.15942097	6.0914855	2.9157269	1.88175917
210	3.50656581	6.9038887	8.38098621	2.25103331	1.80790424
211	1.73404944	7.79014683	8.38098621	3.72813034	1.66019464
212	2.76801729	8.67640495	7.64243746	3.72813034	1.43862998
213	5.35293722	9.34109879	7.93785667	4.31896925	1.06935585
214	4.54053354	8.15942097	7.42087269	3.06343675	0.3308073
215	3.94969487	7.12545347	5.72221136	1.73404944	1.43862998
216	4.24511433	6.9038887	5.35293722	0.99550092	1.14321065
217	5.13137245	6.68232441	6.97774363	2.25103331	1.36477518
218	3.50656581	5.50064659	7.56858253	3.43271089	0.55237186
219	3.65427542	5.35293722	7.1993084	3.58042073	0.40466216
220	3.87583995	6.31305027	6.60846949	2.9157269	-1.36785424
221	4.39282417	6.83003378	6.9038887	3.3588562	-1.51556396
222	2.9157269	6.31305027	7.79014683	3.50656581	-0.99857998
223	2.54645276	6.46075964	8.45484066	3.3588562	0.478517
224	3.13729167	7.93785667	7.1993084	1.73404944	-0.70316058
225	5.42679167	9.85808277	5.2790823	2.17717862	-0.70316058
226	5.72221136	9.63651848	5.13137245	3.80198526	0.1830976
227	4.31896925	8.52869511	7.27316332	4.39282417	1.73404944
228	2.25103331	7.93785667	8.38098621	3.06343675	1.36477518
229	2.9157269	9.04567909	8.52869511	2.84187222	0.99550092
230	3.3588562	9.11953449	8.08556652	3.21114635	-0.48159602
231	3.21114635	9.26724434	8.67640495	3.06343675	-0.62930572
232	2.1033237	9.04567909	9.71037292	1.58633971	-0.03846694
233	2.9157269	9.19338894	10.00579262	2.54645276	1.88175917
234	3.21114635	8.45484066	10.15350246	3.80198526	2.17717862
235	4.24511433	7.56858253	11.11361504	4.61438847	1.06935585
236	3.3588562	6.01763058	10.67048645	3.28500128	0.03538791
237	2.47259784	6.31305027	9.26724434	1.88175917	0.55237186
238	2.32488823	8.52869511	7.93785667	0.70008153	0.99550092
239	4.54053354	10.07964706	7.86400175	2.17717862	1.66019464
240	5.20522738	9.71037292	8.23327637	3.13729167	0.70008153
241	3.21114635	7.49472761	7.93785667	2.25103331	1.21706545
242	1.58633971	6.0914855	7.64243746	1.06935585	0.40466216
243	3.94969487	6.75617933	7.12545347	2.25103331	-0.18617664
244	6.23919535	7.05159855	6.9038887	1.21706545	-1.36785424
245	5.42679167	8.01171112	6.38690472	-0.77701545	0.40466216
246	1.88175917	8.45484066	5.64835644	-0.33388633	0.478517
247	0.55237186	8.67640495	6.68232441	4.09740448	0.10924275

	AO	AP	AQ	AR	AS
198	-0.33388633	9.87144566	4.96018124	-7.64175224	-6.56133318
199	-1.36785424	9.35579109	6.88040733	-7.46986771	-6.02112341
200	0.10924275	9.42945576	8.28364944	-6.85599279	-5.55457878
201	1.66019464	10.60809422	6.73269796	-7.51897764	-5.57913399
202	2.76801729	11.1974144	3.9262135	-9.55704117	-6.73321819
203	1.21706545	10.01877499	2.89224553	-9.06594086	-6.73321819
204	2.32488823	7.95615673	3.03995538	-7.5680871	-6.73321819
205	3.3588562	7.95615673	5.03403616	-7.19976234	-7.29798269
206	3.21114635	6.7775178	4.07392311	-8.69761658	-7.27342749
207	2.17717862	8.39814663	3.63079405	-8.72217178	-5.80012894
208	3.87583995	8.69280624	2.89224553	-7.61719751	-5.13714409
209	3.94969487	9.28212547	5.4033103	-6.14389849	-5.80012894
210	3.94969487	8.25081635	7.1019721	-7.10154247	-6.83143806
211	3.21114635	8.98746586	6.73269796	-8.3292923	-6.78232813
212	3.21114635	9.50312042	5.18174601	-8.35384655	-6.73321819
213	3.72813034	10.09243965	5.25560093	-6.78232813	-6.56133318
214	4.02354956	9.42945576	5.99414921	-6.58588839	-7.46986723
215	2.62030768	10.01877499	6.73269796	-7.51897764	-7.22431755
216	1.95561397	9.35579109	5.55102015	-8.84494686	-6.36489296
217	0.99550092	10.3134346	5.92029428	-8.55028629	-5.89834881
218	1.14321065	9.42945576	6.14185905	-8.5748415	-6.38944817
219	1.73404944	9.72411537	7.02811718	-8.52573204	-5.87379408
220	3.87583995	10.68175983	7.24968147	-7.83819246	-5.77557373
221	2.9157269	11.6394043	7.3235364	-6.53677797	-7.15065289
222	0.84779125	11.1974144	8.65292358	-6.80688286	-8.69761658
223	0.478517	8.69280624	8.80063343	-7.32253742	-7.39620256
224	3.3588562	7.07217741	7.02811718	-7.93641233	-5.60368919
225	3.94969487	8.39814663	6.28956842	-7.46986771	-5.57913399
226	2.62030768	9.94511032	6.58498812	-7.73997211	-6.85599279
227	-0.48159602	11.34474373	7.61895609	-7.5680871	-6.78232813
228	-2.18025756	10.38710022	5.84643936	-7.49442244	-6.14389849
229	-3.36193514	10.01877499	5.99414921	-6.58588791	-6.16845369
230	-1.07243478	8.0298214	5.10789108	-7.64175224	-7.15065289
231	1.58633971	9.65045071	6.21571398	-8.40295696	-7.4453125
232	2.69416237	11.41840935	5.4033103	-8.10829735	-6.97876787
233	1.29092038	11.05008411	4.00006819	-6.51222324	-6.21756363
234	0.77393639	8.98746586	3.40922952	-6.95421267	-6.38944817
235	0.62622672	8.25081635	4.5909071	-8.05918694	-6.38944864
236	1.73404944	7.66149712	4.51705217	-8.89405632	-6.04567862
237	1.51248491	8.17715168	3.63079405	-8.08374214	-5.65279913
238	0.92164612	8.91380119	3.18766499	-8.1328516	-5.94745874
239	0.25695246	11.41840935	5.18174601	-8.64850616	-5.97201347
240	1.73404944	10.7554245	6.58498812	-8.08374214	-5.48091412
241	1.66019464	8.98746586	7.84052038	-6.85599327	-5.33358431
242	1.36477518	8.54547596	8.50521374	-7.10154247	-6.21756363
243	1.21706545	9.35579109	7.39739132	-7.93641233	-5.8737936
244	1.36477518	9.35579109	4.29548788	-8.20651722	-5.1616993
245	-0.40774119	9.72411537	3.70464897	-7.71541739	-5.23536444
246	-0.03846694	10.01877499	7.02811718	-7.88730192	-6.09478855
247	0.55237186	11.05008411	11.60711765	-8.15740681	-6.43855858

	AT	AU
198	4.19587755	1.56172144
199	4.81133461	1.9309957
200	6.53461456	1.6848129
201	7.12545347	2.02946877
202	5.50064659	2.66954422
203	5.13137245	3.80198526
204	5.42679167	4.39282417
205	6.2638135	3.75274873
206	6.18995857	2.12794209
207	6.0914855	2.05408716
208	5.84530258	2.86649036
209	6.2638135	2.9157269
210	6.2638135	2.66954422
211	5.96839428	2.86649036
212	6.36228657	2.79263544
213	7.54396439	3.03881836
214	6.70694256	2.47259784
215	5.59912014	1.9309957
216	5.50064659	1.36477518
217	6.2638135	1.53710318
218	5.52526474	1.70943117
219	5.40217352	1.90637743
220	5.59912014	1.80790424
221	6.04224873	1.58633971
222	5.67297459	1.11859238
223	5.82068443	1.4386301
224	6.0914855	1.46324837
225	6.8546524	1.80790424
226	6.83003426	2.20179677
227	6.70694256	1.88175917
228	6.18995857	0.74931812
229	6.83003378	0.15847933
230	6.8546524	0.55237186
231	7.05159855	1.34015691
232	6.953125	1.41401172
233	7.37163639	1.90637743
234	7.27316332	2.25103331
235	7.64243746	2.1033237
236	6.68232441	1.6848129
237	6.01763058	1.31553864
238	6.2638135	0.87240952
239	7.49472761	1.36477518
240	7.71629238	1.8571409
241	6.21457672	1.70943117
242	5.1067543	0.94626439
243	5.94377613	1.09397399
244	6.73156071	0.40466213
245	6.60846901	-0.26003149
246	5.3283186	0.03538791
247	5.30370045	1.58633971

	A	B	C	D	E	F	G	H	I	J	K
248								-.002580	-3.84	1.88	-8.77
249								-.002570	-5.60	.55	-8.26
250								-.002560	-7.30	1.00	-6.71
251								-.002550	-4.72	2.25	-5.24
252								-.002540	-3.32	2.92	-6.78
253								-.002530	-3.10	4.10	-9.43
254								-.002520	-4.50	3.06	-11.35
255								-.002510	-4.72	3.14	-9.73
256								-.002500	-5.60	3.36	-7.59
257								-.002490	-5.60	4.10	-7.37
258								-.002480	-5.75	3.65	-8.99
259								-.002470	-4.94	3.21	-8.33
260								-.002460	-5.75	2.55	-8.11
261								-.002450	-6.86	4.10	-7.96
262								-.002440	-7.81	3.95	-8.55
263								-.002430	-5.46	2.62	-8.33
264								-.002420	-4.72	.11	-8.84
265								-.002410	-4.72	-.56	-9.66
266								-.002400	-6.12	-.04	-9.58
267								-.002390	-6.78	1.73	-7.74
268								-.002380	-5.75	3.73	-6.19
269								-.002370	-3.98	4.76	-5.46
270								-.002360	-3.84	3.06	-8.18
271								-.002350	-4.50	1.81	-10.61
272								-.002340	-5.60	1.36	-10.47
273								-.002330	-5.46	2.32	-6.41
274								-.002320	-4.87	2.69	-5.46
275								-.002310	-2.80	3.95	-7.45
276								-.002300	-3.84	4.84	-8.62
277								-.002290	-6.41	4.10	-7.37
278								-.002280	-6.93	2.32	-7.22
279								-.002270	-4.65	3.06	-7.96
280								-.002260	-3.61	4.69	-8.55
281								-.002250	-4.72	4.54	-7.96
282								-.002240	-5.46	3.14	-8.11
283								-.002230	-4.94	3.06	-7.22
284								-.002220	-5.46	2.18	-6.78
285								-.002210	-4.65	3.36	-7.00
286								-.002200	-4.50	4.02	-7.52
287								-.002190	-4.65	2.77	-6.78
288								-.002180	-5.90	.04	-6.34
289								-.002170	-4.87	1.00	-6.49
290								-.002160	-4.65	4.10	-6.63
291								-.002150	-5.16	5.43	-6.63
292								-.002140	-5.53	2.84	-8.26
293								-.002130	-3.39	.11	-9.43
294								-.002120	-3.25	-.63	-9.36
295								-.002110	-5.38	2.32	-7.81
296								-.002100	-7.22	5.72	-7.37
297								-.002090	-6.19	6.31	-6.93

	L	M	N	O	P	Q	R	S	T
248	8.45	-11.05	5.65	-13.78	-.33	-2.14	.48	-2.36	-.04
249	8.68	-10.61	6.68	-12.97	4.10	-1.99	.11	-4.35	.55
250	7.64	-10.91	8.38	-11.20	3.65	-3.39	.11	-4.57	.63
251	8.23	-12.38	8.16	-10.61	-.70	-3.32	2.40	-4.28	-1.44
252	8.90	-12.97	6.90	-12.60	-2.84	-4.28	1.44	-1.99	-.48
253	8.16	-10.76	6.46	-12.60	1.29	-4.43	-.41	-2.07	1.44
254	5.35	-10.02	6.31	-13.26	3.73	-4.79	.11	-3.25	3.14
255	5.50	-11.79	5.72	-13.04	2.69	-4.20	3.06	-4.94	1.14
256	7.49	-13.26	4.25	-13.41	-.04	-3.54	2.55	-3.32	-.78
257	7.86	-10.91	4.98	-12.53	.63	-2.07	1.14	-1.92	-1.07
258	6.02	-8.26	4.91	-12.31	2.10	-3.10	.77	-1.18	-.19
259	5.50	-8.48	3.95	-10.61	3.14	-4.28	2.47	-2.44	-1.00
260	4.98	-10.91	4.47	-11.20	1.59	-4.43	2.40	-3.54	-2.55
261	5.35	-11.57	6.90	-10.54	.92	-3.61	4.76	-4.06	-2.25
262	6.68	-10.98	7.79	-9.95	.70	-5.31	4.69	-3.39	.04
263	8.53	-11.94	6.39	-9.88	.92	-5.16	2.92	-3.47	.70
264	7.20	-12.68	5.13	-12.53	-.26	-2.88	1.29	-3.17	.11
265	5.28	-11.87	5.57	-12.53	-.63	-.96	3.29	-2.51	-.78
266	5.87	-11.20	6.31	-11.42	.85	-4.43	3.88	-2.22	-.04
267	8.75	-10.61	5.87	-12.01	1.22	-5.46	4.91	-3.54	1.00
268	9.41	-9.88	5.72	-13.93	.40	-5.60	4.17	-2.66	1.51
269	8.68	-9.36	5.43	-13.12	1.88	-6.05	3.80	-1.63	-.04
270	6.02	-9.43	4.02	-11.79	4.10	-7.08	2.40	-1.26	-1.00
271	5.43	-9.80	1.73	-12.09	3.14	-3.84	3.21	-3.91	-1.29
272	6.46	-10.10	2.84	-13.19	.48	-2.22	2.55	-5.46	-.41
273	9.64	-11.20	6.61	-12.09	1.66	-2.80	2.77	-5.53	-1.07
274	9.27	-12.68	8.16	-11.87	2.55	-4.28	2.47	-3.76	-.41
275	7.05	-12.53	6.09	-10.98	2.69	-3.84	2.18	-3.54	-.92
276	4.69	-10.91	4.54	-11.79	2.25	-3.25	2.62	-3.10	-.04
277	4.84	-8.48	5.94	-11.42	3.21	-3.91	3.95	-2.73	-.63
278	4.10	-7.96	6.24	-11.13	2.40	-6.56	3.73	-1.11	.26
279	4.61	-9.73	4.47	-10.39	1.59	-8.40	2.92	-2.14	.40
280	6.61	-12.23	2.47	-12.31	.33	-7.52	4.02	-2.95	1.88
281	8.68	-11.64	3.21	-12.09	2.47	-5.60	6.53	-3.69	1.96
282	7.27	-10.17	4.54	-10.83	5.06	-6.93	6.02	-3.47	1.73
283	5.43	-9.73	4.47	-10.02	5.50	-7.37	5.06	-3.91	1.88
284	6.09	-10.02	2.25	-12.90	1.73	-6.19	5.43	-3.32	2.99
285	7.57	-8.84	1.36	-12.01	1.00	-5.53	6.46	-3.03	2.62
286	7.05	-8.70	4.25	-10.02	3.14	-8.62	5.43	-2.80	2.77
287	6.02	-11.13	5.87	-9.66	6.53	-8.26	6.53	-2.66	3.65
288	6.02	-12.97	4.91	-12.90	5.87	-5.68	8.45	-2.80	4.98
289	6.98	-11.13	3.95	-12.38	5.94	-3.76	10.08	-4.06	4.61
290	7.20	-8.26	3.21	-10.61	5.94	-6.41	6.98	-2.51	4.98
291	6.76	-9.80	2.92	-11.05	5.28	-7.81	5.57	-.89	5.43
292	5.50	-11.35	2.62	-13.56	2.99	-6.93	5.72	-.74	5.50
293	4.69	-10.17	3.51	-14.44	2.40	-3.03	8.38	-4.94	2.77
294	4.25	-9.80	4.02	-13.71	3.36	-2.14	8.23	-6.78	2.32
295	4.91	-12.23	4.02	-12.31	5.13	-3.03	8.31	-6.05	2.69
296	4.25	-13.41	4.02	-12.97	5.57	-5.75	7.94	-1.85	4.54
297	4.32	-11.28	5.50	-12.68	5.57	-6.12	8.23	-1.70	4.17

	U	V	W	X	Y	Z	AA	AB	AC	AD
248	-.002580	10.02	7.03	-7.89	5.33	-6.09	.04		0.00243	-7.29798269
249	-.002570	11.05	11.61	-8.16	5.30	-6.44	1.59		0.00244	-4.71970987
250	-.002560	9.72	8.51	-8.30	5.67	-6.39	1.46		0.00245	-3.32007575
251	-.002550	10.17	5.11	-7.45	6.21	-6.07	.08		0.00246	-3.09908104
252	-.002540	8.84	4.22	-7.69	6.24	-6.29	-.63		0.00247	-4.49871492
253	-.002530	9.80	8.51	-7.76	6.24	-6.36	.77		0.00248	-4.71970987
254	-.002520	9.43	8.95	-8.62	4.91	-7.10	2.32		0.00249	-5.60368919
255	-.002510	9.65	6.81	-8.75	4.79	-7.40	2.30		0.0025	-5.60368919
256	-.002500	7.66	5.70	-8.82	5.03	-6.76	.58		0.00251	-5.751019
257	-.002490	6.48	7.10	-7.96	5.65	-5.51	.23		0.00252	-4.94070435
258	-.002480	7.96	7.47	-7.67	4.86	-5.53	.90		0.00253	-5.751019
259	-.002470	10.31	6.51	-7.25	4.22	-5.78	1.54		0.00254	-6.85599279
260	-.002460	8.99	4.37	-8.26	4.00	-6.39	.48		0.00255	-7.81363726
261	-.002450	8.55	4.81	-8.80	5.45	-6.07	1.14		0.00256	-5.45635891
262	-.002440	9.36	4.07	-9.12	6.14	-6.22	1.81		0.00257	-4.71970987
263	-.002430	12.45	5.33	-8.57	5.85	-6.17	1.51		0.00258	-4.71970987
264	-.002420	11.93	5.99	-8.75	4.15	-6.19	.38		0.00259	-6.11934376
265	-.002410	9.13	5.85	-8.75	3.43	-5.33	.63		0.0026	-6.78232813
266	-.002400	6.92	5.26	-8.97	4.05	-6.02	1.56		0.00261	-5.751019
267	-.002390	7.88	5.85	-8.38	5.45	-7.00	2.37		0.00262	-3.98306036
268	-.002380	10.46	5.92	-7.27	6.29	-7.40	2.03		0.00263	-3.83573031
269	-.002370	10.90	6.14	-6.27	6.29	-6.93	1.88		0.00264	-4.49871492
270	-.002360	7.66	4.37	-7.15	4.37	-6.71	1.83		0.00265	-5.60368919
271	-.002350	8.03	5.26	-8.30	2.99	-6.61	1.68		0.00266	-5.45635891
272	-.002340	8.32	5.62	-8.72	3.56	-6.95	.87		0.00267	-4.86703968
273	-.002330	9.21	7.18	-7.69	6.19	-6.81	1.12		0.00268	-2.80442119
274	-.002320	7.81	6.58	-7.67	6.71	-6.63	1.54		0.00269	-3.83573031
275	-.002310	8.69	7.03	-7.59	5.70	-6.12	1.32		0.0027	-6.41400337
276	-.002300	10.09	6.66	-7.79	4.69	-6.05	1.61		0.00271	-6.92965794
277	-.002290	11.34	5.77	-7.42	4.96	-6.02	2.18		0.00272	-4.64604473
278	-.002280	10.76	5.40	-7.37	4.22	-6.27	2.13		0.00273	-3.6147356
279	-.002270	11.05	5.55	-7.45	4.05	-6.98	1.64		0.00274	-4.71970987
280	-.002260	10.02	3.70	-8.13	4.59	-7.59	2.08		0.00275	-5.45635891
281	-.002250	9.28	2.97	-8.11	5.48	-7.13	3.65		0.00276	-4.94070435
282	-.002240	7.44	2.23	-7.91	4.98	-7.08	4.27		0.00277	-5.45635891
283	-.002230	8.25	4.52	-7.30	4.32	-7.10	4.15		0.00278	-4.64604473
284	-.002220	8.99	5.40	-7.42	3.51	-7.47	3.38		0.00279	-4.49871492
285	-.002210	11.05	6.14	-6.83	4.10	-6.86	3.36		0.0028	-4.64604473
286	-.002200	10.02	4.66	-6.91	5.11	-7.15	3.78		0.00281	-5.89834881
287	-.002190	8.40	3.48	-7.52	4.89	-6.86	5.57		0.00282	-4.86703968
288	-.002180	8.10	3.34	-8.40	3.65	-7.13	6.44		0.00283	-4.64604473
289	-.002170	10.24	5.55	-7.49	3.97	-6.73	6.88		0.00284	-5.1616993
290	-.002160	11.79	5.85	-6.51	4.84	-6.51	5.97		0.00285	-5.53002405
291	-.002150	12.60	5.62	-7.20	5.03	-6.59	5.43		0.00286	-3.39374065
292	-.002140	9.28	4.07	-8.38	3.65	-7.08	4.74		0.00287	-3.24641085
293	-.002130	9.21	5.40	-7.67	2.77	-7.47	4.52		0.00288	-5.38269424
294	-.002120	9.21	4.74	-7.47	2.55	-7.54	4.64		0.00289	-7.22431755
295	-.002110	10.61	5.40	-8.48	3.75	-7.13	5.38		0.0029	-6.19300842
296	-.002100	9.87	4.59	-9.34	4.66	-6.86	6.02		0.00291	-5.89834881
297	-.002090	10.17	3.93	-8.13	5.38	-6.83	5.99		0.00292	-6.19300842

	AE	AF	AG	AH	AI
248	-6.70866299	-10.90756512	-11.20222473	-3.39374065	-4.57237959
249	-5.23536444	-12.38086319	-10.61290455	-3.32007575	-4.27771997
250	-6.78232813	-12.97018337	-12.60185814	-4.27771997	-1.99410689
251	-9.43426609	-10.76023483	-12.60185814	-4.42504978	-2.06777191
252	-11.34955406	-10.02358532	-13.26484299	-4.79337454	-3.24641085
253	-9.7289257	-11.79154396	-13.04384804	-4.20405531	-4.94070435
254	-7.59264231	-13.26484299	-13.41217232	-3.5410707	-3.32007575
255	-7.37164736	-10.90756512	-12.52819347	-2.06777191	-1.92044199
256	-8.99227619	-8.25562668	-12.30719852	-3.09908104	-1.18379247
257	-8.32929134	-8.47662163	-10.61290455	-4.27771997	-2.43609643
258	-8.10829735	-10.90756512	-11.20222473	-4.42504978	-3.5410707
259	-7.96096706	-11.57054901	-10.53923988	-3.6147356	-4.05672503
260	-8.55028629	-10.98122978	-9.94992065	-5.3090291	-3.39374065
261	-8.32929134	-11.93887424	-9.87625599	-5.1616993	-3.4674058
262	-8.84494591	-12.67552376	-12.52819347	-2.87808609	-3.17274594
263	-9.65526104	-11.86520863	-12.52819347	-0.9627977	-2.50976157
264	-9.58159542	-11.20222473	-11.42321968	-4.42504978	-2.21510172
265	-7.73997211	-10.61290455	-12.01253891	-5.45635891	-3.5410707
266	-6.19300842	-9.87625599	-13.92782688	-5.60368919	-2.65709138
267	-5.45635891	-9.36060143	-13.1175127	-6.04567862	-1.62578213
268	-8.18196201	-9.43426609	-11.79154396	-7.07698774	-1.25745749
269	-10.61290455	-9.80259037	-12.08620358	-3.83573031	-3.90939546
270	-10.46557522	-10.09724998	-13.19117832	-2.21510172	-5.45635891
271	-6.41400337	-11.20222473	-12.08620358	-2.80442119	-5.53002405
272	-5.45635891	-12.67552376	-11.86520863	-4.27771997	-3.76206541
273	-7.4453125	-12.52819347	-10.98122978	-3.83573031	-3.5410707
274	-8.62395191	-10.90756512	-11.79154396	-3.24641085	-3.09908104
275	-7.37164736	-8.47662163	-11.42321968	-3.90939546	-2.73075628
276	-7.22431755	-7.96096706	-11.12855911	-6.56133318	-1.11012757
277	-7.96096706	-9.7289257	-10.39191055	-8.40295696	-2.14143682
278	-8.55028629	-12.23353386	-12.30719852	-7.51897764	-2.95175099
279	-7.96096706	-11.64421368	-12.08620358	-5.60368919	-3.68840051
280	-8.10829735	-10.1709156	-10.8338995	-6.92965794	-3.4674058
281	-7.22431755	-9.7289257	-10.02358532	-7.37164736	-3.90939546
282	-6.78232813	-10.02358532	-12.89651775	-6.19300842	-3.32007575
283	-7.00332308	-8.84494591	-12.01253891	-5.53002405	-3.02541614
284	-7.51897764	-8.69761658	-10.02358532	-8.62395191	-2.80442119
285	-6.78232813	-11.12855911	-9.65526104	-8.25562668	-2.65709138
286	-6.34033823	-12.97018337	-12.89651775	-5.67735386	-2.80442119
287	-6.48766804	-11.12855911	-12.38086319	-3.76206541	-4.05672503
288	-6.63499832	-8.25562668	-10.61290455	-6.41400337	-2.50976157
289	-6.63499832	-9.80259037	-11.05489445	-7.81363726	-0.88913274
290	-8.25562668	-11.34955406	-13.5595026	-6.92965794	-0.74180287
291	-9.43426609	-10.1709156	-14.44348145	-3.02541614	-4.94070435
292	-9.36060143	-9.80259037	-13.70683289	-2.14143682	-6.78232813
293	-7.81363726	-12.23353386	-12.30719852	-3.02541614	-6.04567862
294	-7.37164736	-13.41217232	-12.97018337	-5.751019	-1.84677696
295	-6.92965794	-11.2758894	-12.67552376	-6.11934376	-1.69944715
296	-7.51897764	-10.90756512	-11.93887424	-5.89834881	-3.68840051
297	-8.84494591	-11.49688435	-9.13960648	-5.89834881	-6.11934376

	AJ	AK	AL	AM	AN
248	0.99550092	7.64243746	8.38098621	3.65427542	0.10924275
249	2.25103331	8.23327637	8.15942097	-0.70316058	2.39874315
250	2.9157269	8.8979702	6.9038887	-2.84495115	1.43862998
251	4.09740448	8.15942097	6.46075964	1.29092038	-0.40774119
252	3.06343675	5.35293722	6.31305027	3.72813034	0.10924275
253	3.13729167	5.50064659	5.72221136	2.69416237	3.06343675
254	3.3588562	7.49472761	4.24511433	-0.03846694	2.54645276
255	4.09740448	7.86400175	4.98366261	0.62622672	1.14321065
256	3.65427542	6.01763058	4.90980816	2.1033237	0.77393639
257	3.21114635	5.50064659	3.94969487	3.13729167	2.47259784
258	2.54645276	4.98366261	4.46667862	1.58633971	2.39874315
259	4.09740448	5.35293722	6.9038887	0.92164612	4.76209831
260	3.94969487	6.68232441	7.79014683	0.70008153	4.68824339
261	2.62030768	8.52869511	6.38690472	0.92164612	2.9157269
262	0.10924275	7.1993084	5.13137245	-0.26003149	1.29092038
263	-0.55545086	5.2790823	5.57450151	-0.62930572	3.28500128
264	-0.03846694	5.86992073	6.31305027	0.84779125	3.87583995
265	1.73404944	8.75026035	5.86992073	1.21706545	4.90980816
266	3.72813034	9.41495323	5.72221136	0.40466216	4.1712594
267	4.76209831	8.67640495	5.42679167	1.88175917	3.80198526
268	3.06343675	6.01763058	4.02354956	4.09740448	2.39874315
269	1.80790424	5.42679167	1.73404944	3.13729167	3.21114635
270	1.36477518	6.46075964	2.84187222	0.478517	2.54645276
271	2.32488823	9.63651848	6.60846949	1.66019464	2.76801729
272	2.69416237	9.26724434	8.15942097	2.54645276	2.47259784
273	3.94969487	7.05159855	6.0914855	2.69416237	2.17717862
274	4.83595324	4.68824339	4.54053354	2.25103331	2.62030768
275	4.09740448	4.83595324	5.94377565	3.21114635	3.94969487
276	2.32488823	4.09740448	6.23919535	2.39874315	3.72813034
277	3.06343675	4.61438847	4.46667862	1.58633971	2.9157269
278	4.68824339	6.60846949	2.47259784	0.3308073	4.02354956
279	4.54053354	8.67640495	3.21114635	2.47259784	6.53461456
280	3.13729167	7.27316332	4.54053354	5.05751753	6.01763058
281	3.06343675	5.42679167	4.46667862	5.50064659	5.05751753
282	2.17717862	6.0914855	2.25103331	1.73404944	5.42679167
283	3.3588562	7.56858253	1.36477518	0.99550092	6.46075964
284	4.02354956	7.05159855	4.24511433	3.13729167	5.42679167
285	2.76801729	6.01763058	5.86992073	6.53461456	6.53461456
286	0.03538791	6.01763058	4.90980816	5.86992073	8.45484066
287	0.99550092	6.97774363	3.94969487	5.94377565	10.07964706
288	4.09740448	7.1993084	3.21114635	5.94377565	6.97774363
289	5.42679167	6.75617933	2.9157269	5.2790823	5.57450151
290	2.84187222	5.50064659	2.62030768	2.98958182	5.72221136
291	0.10924275	4.68824339	3.50656581	2.39874315	8.38098621
292	-0.62930572	4.24511433	4.02354956	3.3588562	8.23327637
293	2.32488823	4.90980816	4.02354956	5.13137245	8.30713081
294	5.72221136	4.24511433	4.02354956	5.57450151	7.93785667
295	6.31305027	4.31896925	5.50064659	5.57450151	8.23327637
296	3.28500128	4.24511433	4.76209831	4.1712594	6.60846949
297	2.02946877	5.94377565	3.65427542	4.61438847	6.46075964

	AO	AP	AQ	AR	AS
248	0.62622672	9.72411537	8.50521374	-8.30473709	-6.38944817
249	-1.44170904	10.16610527	5.10789108	-7.4453125	-6.07023335
250	-0.48159602	8.84013653	4.22163296	-7.69086266	-6.29122829
251	1.43862998	9.79778004	8.50521374	-7.76452732	-6.36489344
252	3.13729167	9.42945576	8.94834328	-8.62395096	-7.10154295
253	1.14321065	9.65045071	6.80655241	-8.74672699	-7.39620256
254	-0.77701545	7.66149712	5.69872999	-8.82039165	-6.75777292
255	-1.07243478	6.48285818	7.1019721	-7.96096706	-5.50546932
256	-0.18617664	7.95615673	7.47124624	-7.66630745	-5.53002405
257	-0.99857998	10.3134346	6.51113319	-7.24887228	-5.77557373
258	-2.5495317	8.98746586	4.3693428	-8.25562668	-6.38944817
259	-2.25411248	8.54547596	4.81247187	-8.79583645	-6.07023335
260	0.03538791	9.35579109	4.07392311	-9.11505127	-6.21756363
261	0.70008153	12.44971848	5.32945538	-8.5748415	-6.16845369
262	0.10924275	11.93406391	5.99414921	-8.74672699	-6.19300842
263	-0.77701545	9.13479614	5.84643936	-8.74672699	-5.33358431
264	-0.03846694	6.9248476	5.25560093	-8.96772099	-6.02112389
265	0.99550092	7.88249207	5.84643936	-8.37840176	-7.0033226
266	1.51248491	10.46076488	5.92029428	-7.27342796	-7.39620256
267	-0.03846694	10.90275478	6.14185905	-6.26667356	-6.92965794
268	-0.99857998	7.66149712	4.3693428	-7.15065289	-6.70866299
269	-1.29399931	8.0298214	5.25560093	-8.30473709	-6.61044312
270	-0.40774119	8.32448196	5.62487507	-8.72217178	-6.95421314
271	-1.07243478	9.20846081	7.17582703	-7.69086218	-6.80688286
272	-0.40774119	7.80882692	6.58498812	-7.66630745	-6.63499784
273	-0.92472512	8.69280624	7.02811718	-7.59264231	-6.11934376
274	-0.03846694	10.09243965	6.65884304	-7.78908253	-6.04567862
275	-0.62930572	11.34474373	5.77258492	-7.42075729	-6.02112389
276	0.25695246	10.7554245	5.4033103	-7.37164736	-6.26667309
277	0.40466216	11.05008411	5.55102015	-7.4453125	-6.97876835
278	1.88175917	10.01877499	3.70464897	-8.1328516	-7.59264231
279	1.95561397	9.28212547	2.96610045	-8.10829735	-7.12609768
280	1.73404944	7.44050217	2.22755194	-7.91185713	-7.07698774
281	1.88175917	8.25081635	4.51705217	-7.29798269	-7.10154247
282	2.98958182	8.98746586	5.4033103	-7.42075729	-7.46986723
283	2.62030768	11.05008411	6.14185905	-6.83143806	-6.85599327
284	2.76801729	10.01877499	4.66476202	-6.90510321	-7.15065289
285	3.65427542	8.39814663	3.48308444	-7.51897717	-6.85599327
286	4.98366261	8.10348701	3.33537459	-8.40295696	-7.12609768
287	4.61438847	10.23976994	5.55102015	-7.49442244	-6.73321772
288	4.98366261	11.78673363	5.84643936	-6.51222324	-6.51222324
289	5.42679167	12.59704781	5.62487507	-7.19976282	-6.58588791
290	5.50064659	9.28212547	4.07392311	-8.37840176	-7.07698774
291	2.76801729	9.20846081	5.4033103	-7.66630745	-7.46986723
292	2.32488823	9.20846081	4.73861694	-7.46986771	-7.54353237
293	2.69416237	10.60809422	5.4033103	-8.47662163	-7.12609768
294	4.54053354	9.87144566	4.5909071	-9.33604622	-6.85599327
295	4.1712594	10.16610527	3.9262135	-8.1328516	-6.83143806
296	2.1033237	10.16610527	2.59682631	-8.10829735	-7.17520809
297	-0.70316058	10.97641945	3.9262135	-8.84494591	-7.05243301

	AT	AU
248	5.67297506	1.46324825
249	6.21457672	0.08462451
250	6.23919535	-0.62930572
251	6.23919487	0.77393639
252	4.90980816	2.32488823
253	4.78671646	2.30026984
254	5.03289938	0.57699013
255	5.64835644	0.2323342
256	4.86057138	0.89702779
257	4.22049618	1.53710318
258	3.99893141	0.47851706
259	5.45141029	1.14321065
260	6.14072227	1.80790424
261	5.84530258	1.51248479
262	4.14664125	0.38004386
263	3.43271089	0.62622672
264	4.04816818	1.56172144
265	5.45141029	2.37412477
266	6.28843164	2.02946877
267	6.28843164	1.88175917
268	4.36820555	1.83252251
269	2.98958182	1.6848129
270	3.55580235	0.87240952
271	6.18995857	1.11859238
272	6.70694256	1.53710318
273	5.69759274	1.31553864
274	4.68824339	1.61095798
275	4.95904446	2.17717838
276	4.22049618	2.12794209
277	4.04816818	1.63557625
278	4.58977032	2.07870531
279	5.47602844	3.65427542
280	4.98366261	4.26973248
281	4.31896877	4.14664125
282	3.50656581	3.38347435
283	4.09740448	3.3588562
284	5.1067543	3.77736688
285	4.88518953	5.57450151
286	3.65427566	6.43614149
287	3.97431326	6.87927055
288	4.83595324	5.9683938
289	5.03289938	5.42679167
290	3.65427542	4.73748016
291	2.76801729	4.51591539
292	2.54645276	4.63900709
293	3.75274873	5.37755537
294	4.66362524	6.01763058
295	5.37755537	5.99301243
296	4.09740448	4.29435062
297	3.87583995	3.45732927

	A	B	C	D	E	F	G	H	I	J	K
298								-.002080	-5.90	3.29	-7.52
299								-.002070	-6.19	2.03	-8.84
300								-.002060	-6.63	3.14	-10.39
301								-.002050	-5.75	4.69	-9.07
302								-.002040	-5.60	5.28	-7.67
303								-.002030	-5.31	4.84	-6.27
304								-.002020	-5.16	4.54	-6.49
305								-.002010	-3.98	5.87	-6.63
306								-.002000	-4.65	6.31	-7.52
307								-.001990	-6.34	4.98	-8.70
308								-.001980	-6.93	2.84	-9.95
309								-.001970	-5.01	3.80	-8.55
310								-.001960	-6.19	5.50	-8.55
311								-.001950	-8.70	6.09	-11.42
312								-.001940	-8.77	5.35	-14.37
313								-.001930	-5.38	6.31	-12.53
314								-.001920	-4.72	6.31	-8.99
315								-.001910	-5.24	6.24	-7.52
316								-.001900	-5.60	5.28	-8.18
317								-.001890	-5.01	6.17	-7.81
318								-.001880	-5.75	6.68	-6.34
319								-.001870	-4.87	7.86	-5.24
320								-.001860	-3.84	6.31	-7.30
321								-.001850	-4.28	4.39	-8.55
322								-.001840	-6.63	3.95	-10.02
323								-.001830	-7.22	6.24	-9.66
324								-.001820	-7.30	6.76	-9.51
325								-.001810	-6.34	5.28	-8.99
326								-.001800	-6.05	5.72	-7.59
327								-.001790	-6.41	8.53	-6.49
328								-.001780	-8.84	7.86	-8.55
329								-.001770	-9.36	6.90	-9.43
330								-.001760	-9.51	7.05	-9.07
331								-.001750	-8.55	7.72	-8.26
332								-.001740	-9.43	5.87	-9.43
333								-.001730	-7.81	6.61	-9.43
334								-.001720	-5.75	7.57	-9.36
335								-.001710	-4.57	7.79	-8.77
336								-.001700	-5.90	6.90	-8.84
337								-.001690	-5.68	7.79	-7.74
338								-.001680	-5.82	7.64	-7.08
339								-.001670	-6.34	6.76	-7.45
340								-.001660	-7.96	6.17	-8.55
341								-.001650	-6.71	8.53	-8.18
342								-.001640	-4.72	9.93	-7.96
343								-.001630	-4.50	9.05	-7.52
344								-.001620	-7.00	6.76	-8.48
345								-.001610	-7.30	6.39	-8.33
346								-.001600	-5.68	6.02	-9.73
347								-.001590	-3.98	6.24	-10.39

	L	M	N	O	P	Q	R	S	T
298	4.25	-10.91	4.76	-11.94	4.17	-5.90	6.61	-3.69	2.10
299	5.94	-11.50	3.65	-9.14	4.61	-5.90	6.46	-6.12	-.70
300	6.90	-11.42	4.61	-11.20	4.17	-5.82	7.94	-2.95	1.00
301	8.01	-11.35	6.31	-13.49	5.06	-5.46	7.79	-1.33	3.65
302	7.35	-10.61	6.98	-13.12	6.61	-5.97	4.91	-2.66	6.46
303	7.13	-9.88	7.05	-9.73	7.64	-4.87	3.95	-5.90	7.20
304	5.57	-10.54	6.90	-10.17	5.87	-4.06	4.84	-5.46	6.90
305	5.80	-10.83	7.13	-12.45	6.76	-4.50	7.05	-5.01	3.73
306	6.90	-10.02	6.31	-13.71	7.57	-6.56	6.17	-6.34	2.92
307	7.72	-8.92	5.13	-13.41	6.90	-5.90	4.02	-7.81	5.06
308	8.68	-10.91	3.29	-14.66	4.10	-4.13	2.92	-6.78	6.31
309	10.45	-12.97	3.80	-14.15	4.98	-1.70	6.17	-5.38	5.43
310	8.23	-11.87	6.31	-14.08	6.90	-4.28	7.05	-4.43	6.24
311	5.35	-9.36	7.94	-14.44	7.57	-6.93	6.39	-6.05	7.27
312	4.39	-11.05	6.02	-15.62	6.68	-7.45	6.46	-5.82	7.27
313	7.35	-12.68	4.84	-14.81	7.57	-4.43	7.79	-5.38	4.84
314	8.38	-11.64	5.13	-14.52	7.49	-3.98	4.32	-4.65	3.80
315	7.64	-10.47	3.65	-13.56	7.94	-3.25	1.73	-7.08	4.25
316	7.49	-10.10	2.69	-14.15	8.16	-3.84	2.47	-6.63	7.64
317	9.05	-10.91	5.28	-13.71	8.90	-3.54	4.54	-5.16	9.19
318	10.89	-11.20	8.09	-12.82	7.94	-5.09	3.36	-4.72	8.97
319	11.34	-10.91	7.27	-10.10	8.53	-5.38	4.02	-7.59	6.68
320	8.75	-11.72	4.10	-11.05	8.45	-8.26	4.10	-6.19	7.42
321	7.13	-12.68	5.65	-12.68	8.53	-8.84	4.25	-5.01	6.39
322	7.20	-12.60	9.64	-13.19	7.94	-6.12	2.99	-5.60	5.72
323	9.71	-11.35	10.60	-10.76	8.53	-2.22	3.80	-8.18	6.17
324	9.41	-10.61	9.34	-11.35	7.64	-2.36	5.28	-7.08	9.56
325	9.19	-12.09	9.71	-12.60	6.46	-4.50	6.68	-6.19	9.27
326	10.67	-11.87	12.07	-12.68	7.20	-7.15	6.76	-5.46	7.57
327	12.44	-10.54	14.29	-10.54	10.08	-7.37	6.09	-5.31	6.61
328	10.60	-10.61	13.62	-11.20	10.52	-5.82	3.14	-5.24	7.64
329	10.23	-12.53	11.41	-11.72	8.82	-2.07	2.32	-5.68	7.64
330	12.30	-13.12	11.19	-12.45	6.83	-2.88	1.81	-5.60	6.46
331	14.51	-12.23	13.11	-12.31	6.46	-5.46	2.55	-5.46	4.39
332	13.18	-11.79	12.81	-11.79	6.39	-7.45	3.36	-4.20	5.94
333	12.15	-11.50	11.04	-9.21	6.83	-4.50	5.57	-3.76	7.20
334	12.89	-10.17	11.26	-9.88	5.43	-4.06	4.17	-4.50	5.35
335	13.85	-9.73	14.29	-10.76	5.57	-3.61	2.47	-6.56	.48
336	11.48	-12.53	15.18	-11.87	5.35	-4.20	1.22	-4.28	1.14
337	11.26	-15.03	13.11	-11.35	5.28	-3.39	1.88	-2.44	3.88
338	12.37	-13.49	10.52	-13.71	4.25	-4.72	1.00	-3.10	4.98
339	12.37	-11.64	10.08	-13.71	6.90	-3.54	1.96	-5.46	2.18
340	10.74	-12.31	12.07	-13.12	8.75	-2.29	1.59	-5.31	1.29
341	12.37	-12.38	14.29	-12.97	7.86	-1.33	1.29	-5.09	1.29
342	14.58	-11.50	14.44	-14.00	6.61	-3.54	1.51	-3.47	2.62
343	14.58	-12.97	12.52	-12.16	9.86	-5.38	3.43	-4.20	1.29
344	12.59	-15.70	10.45	-10.39	9.12	-5.82	2.69	-2.36	1.29
345	13.33	-13.71	11.04	-9.43	6.31	-3.54	1.66	-1.99	1.44
346	13.77	-10.10	11.70	-10.91	6.02	-3.03	1.22	-1.48	3.29
347	12.52	-9.58	11.34	-13.26	8.68	-4.57	1.59	-4.28	2.92

	U	V	W	X	Y	Z	AA	AB	AC	AD
298	-.002080	10.17	2.60	-8.11	4.10	-7.18	4.29		0.00293	-6.63499832
299	-.002070	10.98	3.93	-8.84	3.88	-7.05	3.46		0.00294	-5.751019
300	-.002060	10.83	4.81	-9.48	4.89	-6.66	4.37		0.00295	-5.60368919
301	-.002050	10.68	4.22	-8.72	6.34	-6.76	5.50		0.00296	-5.3090291
302	-.002040	8.99	2.30	-7.96	6.53	-7.25	5.99		0.00297	-5.1616993
303	-.002030	10.39	3.56	-7.15	6.34	-6.83	6.26		0.00298	-3.98306036
304	-.002020	9.87	5.26	-7.40	5.67	-6.56	5.87		0.00299	-4.64604473
305	-.002010	7.66	6.44	-7.15	6.26	-7.32	5.85		0.003	-6.34033823
306	-.002000	6.19	4.74	-7.40	6.51	-8.87	5.55		0.00301	-6.92965794
307	-.001990	7.29	3.63	-7.99	5.94	-9.04	5.33		0.00302	-5.01436949
308	-.001980	8.99	3.93	-9.26	4.93	-8.53	4.44		0.00303	-6.19300842
309	-.001970	8.55	4.30	-8.84	6.02	-7.08	5.53		0.00304	-8.69761658
310	-.001960	8.62	3.04	-8.87	6.68	-7.59	6.73		0.00305	-8.77128124
311	-.001950	10.90	2.97	-9.83	6.46	-9.14	7.08		0.00306	-5.38269424
312	-.001940	11.34	3.04	-11.40	5.25	-9.63	6.81		0.00307	-4.71970987
313	-.001930	11.42	5.33	-10.20	6.17	-8.21	6.73		0.00308	-5.23536444
314	-.001920	8.77	5.55	-8.45	6.61	-7.72	5.21		0.00309	-5.60368919
315	-.001910	8.25	6.29	-7.74	5.85	-7.96	4.64		0.0031	-5.01436949
316	-.001900	8.10	5.11	-7.96	5.16	-8.21	6.09		0.00311	-5.751019
317	-.001890	9.58	3.93	-7.91	6.83	-7.47	7.54		0.00312	-4.86703968
318	-.001880	9.87	3.26	-7.76	8.55	-7.54	6.76		0.00313	-3.83573031
319	-.001870	10.02	4.07	-7.00	8.82	-7.69	6.41		0.00314	-4.27771997
320	-.001860	9.13	4.30	-7.62	6.39	-8.50	6.66		0.00315	-6.63499832
321	-.001850	9.43	4.81	-8.50	5.72	-8.84	6.39		0.00316	-7.22431755
322	-.001840	7.96	4.22	-9.75	6.93	-8.30	5.55		0.00317	-7.29798269
323	-.001830	7.96	5.11	-9.41	8.85	-7.05	6.17		0.00318	-6.34033823
324	-.001820	6.92	4.66	-9.14	8.50	-6.93	7.49		0.00319	-6.04567862
325	-.001810	8.84	5.55	-9.14	8.06	-7.76	7.47		0.0032	-6.41400337
326	-.001800	8.55	6.14	-8.50	9.49	-8.43	7.17		0.00321	-8.84494591
327	-.001790	7.66	5.77	-7.81	11.75	-7.74	7.59		0.00322	-9.36060143
328	-.001780	7.81	4.89	-9.34	10.70	-7.42	7.10		0.00323	-9.50793076
329	-.001770	9.13	4.74	-10.44	9.51	-6.49	6.26		0.00324	-8.55028629
330	-.001760	9.58	5.26	-10.56	10.18	-6.98	5.03		0.00325	-9.43426609
331	-.001750	8.32	5.40	-9.68	11.78	-7.74	4.47		0.00326	-7.81363726
332	-.001740	6.41	4.89	-10.22	10.62	-7.81	5.23		0.00327	-5.751019
333	-.001730	7.00	5.92	-9.58	9.93	-5.82	6.53		0.00328	-4.57237959
334	-.001720	7.22	6.14	-8.43	10.57	-6.14	4.98		0.00329	-5.89834881
335	-.001710	8.25	7.40	-7.69	11.98	-6.98	2.84		0.0033	-5.67735386
336	-.001700	7.96	7.69	-9.09	11.19	-6.78	2.57		0.00331	-5.82468367
337	-.001690	9.13	9.10	-9.48	10.72	-5.73	3.68		0.00332	-6.34033823
338	-.001680	10.17	9.17	-8.80	10.18	-7.18	3.41		0.00333	-7.96096706
339	-.001670	11.27	9.24	-8.48	9.73	-7.57	3.68		0.00334	-6.70866299
340	-.001660	11.05	8.65	-9.61	9.66	-6.91	3.88		0.00335	-4.71970987
341	-.001650	10.61	8.95	-9.09	11.73	-6.46	3.48		0.00336	-4.49871492
342	-.001640	7.66	8.87	-8.06	12.98	-7.00	3.58		0.00337	-7.00332308
343	-.001630	6.92	9.39	-8.33	12.05	-7.25	4.86		0.00338	-7.29798269
344	-.001620	6.92	7.91	-10.39	9.93	-6.19	4.37		0.00339	-5.67735386
345	-.001610	8.25	8.65	-9.78	10.25	-4.99	3.14		0.0034	-3.98306036
346	-.001600	7.07	9.10	-8.50	10.50	-5.14	3.51		0.00341	-6.78232813
347	-.001590	7.81	11.02	-7.99	10.03	-7.37	4.39		0.00342	-9.06594086

	AE	AF	AG	AH	AI
298	-10.39191055	-11.42321968	-11.20222473	-5.82468367	-2.95175099
299	-9.06594086	-11.34955406	-13.48583794	-5.45635891	-1.3311224
300	-7.66630745	-10.61290455	-13.1175127	-5.97201347	-2.65709138
301	-6.26667356	-9.87625599	-9.7289257	-4.86703968	-5.89834881
302	-6.48766804	-10.53923988	-10.1709156	-4.05672503	-5.45635891
303	-6.63499832	-10.8338995	-12.45452881	-4.49871492	-5.01436949
304	-7.51897764	-10.02358532	-13.70683289	-6.56133318	-6.34033823
305	-8.69761658	-8.91861153	-13.41217232	-5.89834881	-7.81363726
306	-9.94992065	-10.90756512	-14.66447639	-4.13039017	-6.78232813
307	-8.55028629	-12.97018337	-14.14882183	-1.69944715	-5.38269424
308	-8.55028629	-11.86520863	-14.07515717	-4.27771997	-4.42504978
309	-11.42321968	-9.36060143	-14.44348145	-6.92965794	-6.04567862
310	-14.36981678	-11.05489445	-15.62212086	-7.4453125	-5.82468367
311	-12.52819347	-12.67552376	-14.81180668	-4.42504978	-5.38269424
312	-8.99227619	-11.64421368	-14.51714706	-3.98306036	-4.64604473
313	-7.51897764	-10.46557522	-13.5595026	-3.24641085	-7.07698774
314	-8.18196201	-10.09724998	-14.14882183	-3.83573031	-6.63499832
315	-7.81363726	-10.90756512	-13.70683289	-3.5410707	-5.1616993
316	-6.34033823	-11.20222473	-12.82285309	-5.08803463	-4.71970987
317	-5.23536444	-10.90756512	-10.09724998	-5.38269424	-7.59264231
318	-7.29798269	-11.7178793	-11.05489445	-8.25562668	-6.19300842
319	-8.55028629	-12.67552376	-12.67552376	-8.84494591	-5.01436949
320	-10.02358532	-12.60185814	-13.19117832	-6.11934376	-5.60368919
321	-9.65526104	-11.34955406	-10.76023483	-2.21510172	-8.18196201
322	-9.50793076	-10.61290455	-11.34955406	-2.36243153	-7.07698774
323	-8.99227619	-12.08620358	-12.60185814	-4.49871492	-6.19300842
324	-7.59264231	-11.86520863	-12.67552376	-7.15065289	-5.45635891
325	-6.48766804	-10.53923988	-10.53923988	-7.37164736	-5.3090291
326	-8.55028629	-10.61290455	-11.20222473	-5.82468367	-5.23536444
327	-9.43426609	-12.52819347	-11.7178793	-2.06777191	-5.67735386
328	-9.06594086	-13.1175127	-12.45452881	-2.87808609	-5.60368919
329	-8.25562668	-12.23353386	-12.30719852	-5.45635891	-5.45635891
330	-9.43426609	-11.79154396	-11.79154396	-7.4453125	-4.20405531
331	-9.43426609	-11.49688435	-9.21327114	-4.49871492	-3.76206541
332	-9.36060143	-10.1709156	-9.87625599	-4.05672503	-4.49871492
333	-8.77128124	-9.7289257	-10.76023483	-3.6147356	-6.56133318
334	-8.84494591	-12.52819347	-11.86520863	-4.20405531	-4.27771997
335	-7.73997211	-15.03280163	-11.34955406	-3.39374065	-2.43609643
336	-7.07698774	-13.48583794	-13.70683289	-4.71970987	-3.09908104
337	-7.4453125	-11.64421368	-13.70683289	-3.5410707	-5.45635891
338	-8.55028629	-12.30719852	-13.1175127	-2.28876662	-5.3090291
339	-8.18196201	-12.38086319	-12.97018337	-1.3311224	-5.08803463
340	-7.96096706	-11.49688435	-14.0014925	-3.5410707	-3.4674058
341	-7.51897764	-12.97018337	-12.15986919	-5.38269424	-4.20405531
342	-8.47662163	-15.69578552	-10.39191055	-5.82468367	-2.36243153
343	-8.32929134	-13.70683289	-9.43426609	-3.5410707	-1.99410689
344	-9.7289257	-10.09724998	-10.90756512	-3.02541614	-1.47845232
345	-10.39191055	-9.58159542	-13.26484299	-4.57237959	-4.27771997
346	-10.39191055	-12.45452881	-14.73814201	-5.60368919	-5.3090291
347	-8.69761658	-12.67552376	-11.7178793	-3.68840051	-4.86703968

	AJ	AK	AL	AM	AN
298	3.13729167	6.9038887	4.61438847	4.1712594	7.93785667
299	4.68824339	8.01171112	6.31305027	5.05751753	7.79014683
300	5.2790823	7.34701777	6.97774363	6.60846949	4.90980816
301	4.83595324	7.12545347	7.05159855	7.64243746	3.94969487
302	4.54053354	5.57450151	6.9038887	5.86992073	4.83595324
303	5.86992073	5.79606628	7.12545347	6.75617933	7.05159855
304	6.31305027	6.9038887	6.31305027	7.56858253	6.16534042
305	4.98366261	7.71629238	5.13137245	6.9038887	4.02354956
306	2.84187222	8.67640495	3.28500128	4.09740448	2.9157269
307	3.80198526	10.4489212	3.80198526	4.98366261	6.16534042
308	5.50064659	8.23327637	6.31305027	6.9038887	7.05159855
309	6.0914855	5.35293722	7.93785667	7.56858253	6.38690472
310	5.35293722	4.39282417	6.01763058	6.68232441	6.46075964
311	6.31305027	7.34701777	4.83595324	7.56858253	7.79014683
312	6.31305027	8.38098621	5.13137245	7.49472761	4.31896925
313	6.23919535	7.64243746	3.65427542	7.93785667	1.73404944
314	5.2790823	7.49472761	2.69416237	8.15942097	2.47259784
315	6.16534042	9.04567909	5.2790823	8.8979702	4.54053354
316	6.68232441	10.89205074	8.08556652	7.93785667	3.3588562
317	7.86400175	11.33517933	7.27316332	8.52869511	4.02354956
318	6.31305027	8.75026035	4.09740448	8.45484066	4.09740448
319	4.39282417	7.12545347	5.64835644	8.52869511	4.24511433
320	3.94969487	7.1993084	9.63651848	7.93785667	2.98958182
321	6.23919535	9.71037292	10.59663105	8.52869511	3.80198526
322	6.75617933	9.41495323	9.34109879	7.64243746	5.2790823
323	5.2790823	9.19338894	9.71037292	6.46075964	6.68232441
324	5.72221136	10.67048645	12.07372856	7.1993084	6.75617933
325	8.52869511	12.4430027	14.2893734	10.07964706	6.0914855
326	7.86400175	10.59663105	13.62468052	10.5227766	3.13729167
327	6.9038887	10.22735691	11.40903473	8.8241148	2.32488823
328	7.05159855	12.29529285	11.18747044	6.83003378	1.80790424
329	7.71629238	14.51093864	13.10769653	6.46075964	2.54645276
330	5.86992073	13.18155098	12.81227684	6.38690472	3.3588562
331	6.60846949	12.14758301	11.03976059	6.83003378	5.57450151
332	7.56858253	12.88613129	11.26132488	5.42679167	4.1712594
333	7.79014683	13.84624481	14.2893734	5.57450151	2.47259784
334	6.9038887	11.48288918	15.17563152	5.35293722	1.21706545
335	7.79014683	11.26132488	13.10769653	5.2790823	1.88175917
336	7.64243746	12.3691473	10.5227766	4.24511433	0.99550092
337	6.75617933	12.3691473	10.07964706	6.9038887	1.95561397
338	6.16534042	10.7443409	12.07372856	8.75026035	1.58633971
339	8.52869511	12.3691473	14.2893734	7.86400175	1.29092038
340	9.93193722	14.58479309	14.43708324	6.60846949	1.51248491
341	9.04567909	14.58479309	12.51685715	9.85808277	3.43271089
342	6.75617933	12.59071255	10.4489212	9.11953449	2.69416237
343	6.38690472	13.32926083	11.03976059	6.31305027	1.66019464
344	6.01763058	13.77238941	11.70445442	6.01763058	1.21706545
345	6.23919535	12.51685715	11.33517933	8.67640495	1.58633971
346	4.83595324	9.78422832	10.15350246	7.93785667	0.84779125
347	5.13137245	10.30121231	10.7443409	5.86992073	0.40466216

	AO	AP	AQ	AR	AS
298	0.99550092	10.82908916	4.81247187	-9.4833765	-6.65955305
299	3.65427542	10.68175983	4.22163296	-8.72217178	-6.75777292
300	6.46075964	8.98746586	2.30140686	-7.96096706	-7.24887276
301	7.1993084	10.38710022	3.55693913	-7.15065289	-6.83143806
302	6.9038887	9.87144566	5.25560093	-7.39620256	-6.56133318
303	3.72813034	7.66149712	6.43727827	-7.15065289	-7.3225379
304	2.9157269	6.18819809	4.73861694	-7.39620256	-8.86950111
305	5.05751753	7.29317236	3.63079405	-7.98552227	-9.04138565
306	6.31305027	8.98746586	3.9262135	-9.26238155	-8.52573204
307	5.42679167	8.54547596	4.29548788	-8.84494591	-7.07698774
308	6.23919535	8.61914158	3.03995538	-8.86950111	-7.59264231
309	7.27316332	10.90275478	2.96610045	-9.82714558	-9.13960648
310	7.27316332	11.34474373	3.03995538	-11.39866447	-9.63070583
311	4.83595324	11.41840935	5.32945538	-10.19547081	-8.20651722
312	3.80198526	8.76647091	5.55102015	-8.45206642	-7.71541739
313	4.24511433	8.25081635	6.28956842	-7.73997259	-7.96096706
314	7.64243746	8.10348701	5.10789108	-7.96096706	-8.20651722
315	9.19338894	9.57678509	3.9262135	-7.91185713	-7.46986771
316	8.97182465	9.87144566	3.26151991	-7.76452732	-7.54353237
317	6.68232441	10.01877499	4.07392311	-7.00332308	-7.69086218
318	7.42087269	9.13479614	4.29548788	-7.61719751	-8.50117683
319	6.38690472	9.42945576	4.81247187	-8.50117683	-8.84494591
320	5.72221136	7.95615673	4.22163296	-9.75348091	-8.30473709
321	6.16534042	7.95615673	5.10789108	-9.40971088	-7.05243301
322	9.56266308	6.9248476	4.66476202	-9.13960648	-6.92965794
323	9.26724434	8.84013653	5.55102015	-9.13960648	-7.76452732
324	7.56858253	8.54547596	6.14185905	-8.50117683	-8.42751217
325	6.60846949	7.66149712	5.77258492	-7.81363726	-7.73997211
326	7.64243746	7.80882692	4.88632631	-9.33604527	-7.42075777
327	7.64243746	9.13479614	4.73861694	-10.44102001	-6.48766851
328	6.46075964	9.57678509	5.25560093	-10.56379509	-6.97876787
329	4.39282417	8.32448196	5.4033103	-9.67981529	-7.73997211
330	5.94377565	6.40919304	4.88632631	-10.22002506	-7.81363726
331	7.1993084	6.99851274	5.92029428	-9.58159637	-5.82468367
332	5.35293722	7.21950722	6.14185905	-8.42751217	-6.14389849
333	0.478517	8.25081635	7.39739132	-7.69086218	-6.97876787
334	1.14321065	7.95615673	7.69281054	-9.09049606	-6.78232813
335	3.87583995	9.13479614	9.09605312	-9.48337555	-5.72646379
336	4.98366261	10.16610527	9.16990757	-8.79583645	-7.17520809
337	2.17717862	11.27107906	9.24376297	-8.47662163	-7.56808758
338	1.29092038	11.05008411	8.65292358	-9.60615063	-6.90510273
339	1.29092038	10.60809422	8.94834328	-9.09049606	-6.46311331
340	2.62030768	7.66149712	8.87448788	-8.05918694	-7.00332308
341	1.29092038	6.9248476	9.39147186	-8.3292923	-7.24887276
342	1.29092038	6.9248476	7.91437531	-10.39191055	-6.19300842
343	1.43862998	8.25081635	8.65292358	-9.77803612	-4.98981476
344	3.28500128	7.07217741	9.09605312	-8.50117683	-5.13714457
345	2.9157269	7.80882692	11.01627922	-7.98552227	-7.37164736
346	4.09740448	10.7554245	11.45940781	-9.87625599	-8.55028725
347	7.12545347	11.71306896	9.98231125	-10.1463604	-6.7577734

	AT	AU
298	4.88518953	4.36820555
299	6.33766842	5.50064659
300	6.53461456	5.99301243
301	6.33766842	6.2638135
302	5.67297459	5.86992073
303	6.2638135	5.84530258
304	6.50999641	5.54988337
305	5.94377565	5.3283186
306	4.93442631	4.44206047
307	6.01763058	5.52526474
308	6.68232441	6.73156071
309	6.46075964	7.0762167
310	5.25446415	6.80541563
311	6.16534042	6.73156071
312	6.60846949	5.20522738
313	5.84530258	4.63900661
314	5.1559906	6.0914855
315	6.83003378	7.54396439
316	8.55331421	6.75617933
317	8.8241148	6.41152287
318	6.38690519	6.65770578
319	5.72221136	6.38690472
320	6.92850733	5.54988337
321	8.84873295	6.16534042
322	8.50407696	7.49472761
323	8.06094837	7.47010946
324	9.48880863	7.17469025
325	11.75369072	7.59320068
326	10.6951046	7.10083532
327	9.51342678	6.2638135
328	10.17812061	5.03289938
329	11.77830887	4.46667862
330	10.6212492	5.22984552
331	9.93193817	6.53461456
332	10.5720129	4.98366261
333	11.97525501	2.84187222
334	11.18746948	2.57107115
335	10.71972275	3.6788938
336	10.17812061	3.4080925
337	9.73499107	3.6788938
338	9.66113663	3.87584019
339	11.72907162	3.48194742
340	12.98460484	3.58042073
341	12.04910946	4.86057138
342	9.93193817	4.36820555
343	10.25197506	3.13729167
344	10.49815845	3.50656581
345	10.03041077	4.3928237
346	8.25789452	4.29435062
347	8.7256422	4.46667862

	A	B	C	D	E	F	G	H	I	J	K
348								-.001580	-6.78	4.84	-10.39
349								-.001570	-9.07	5.13	-8.70
350								-.001560	-7.67	6.39	-7.22
351								-.001550	-3.98	7.94	-7.08
352								-.001540	-4.57	6.46	-8.84
353								-.001530	-6.12	5.57	-8.70
354								-.001520	-6.49	5.43	-7.37
355								-.001510	-5.31	5.13	-6.78
356								-.001500	-5.38	3.29	-10.47
357								-.001490	-5.46	4.10	-11.79
358								-.001480	-6.71	5.13	-9.58
359								-.001470	-6.19	5.87	-5.46
360								-.001460	-5.82	5.43	-5.75
361								-.001450	-5.53	6.17	-8.26
362								-.001440	-5.01	7.05	-9.14
363								-.001430	-4.57	7.94	-6.63
364								-.001420	-6.78	6.68	-6.41
365								-.001410	-7.81	5.43	-8.11
366								-.001400	-7.45	4.10	-8.70
367								-.001390	-6.05	4.17	-6.93
368								-.001380	-7.30	3.29	-7.67
369								-.001370	-8.55	4.76	-8.55
370								-.001360	-6.63	6.61	-8.70
371								-.001350	-3.54	7.20	-6.71
372								-.001340	-4.72	4.10	-7.74
373								-.001330	-5.68	4.32	-8.62
374								-.001320	-4.65	7.20	-8.99
375								-.001310	-2.66	9.05	-7.37
376								-.001300	-5.38	5.72	-7.67
377								-.001290	-6.41	3.73	-7.15
378								-.001280	-3.76	4.54	-7.37
379								-.001270	-1.40	6.90	-7.22
380								-.001260	-2.95	5.57	-8.84
381								-.001250	-3.39	4.25	-9.07
382								-.001240	-2.95	4.98	-9.14
383								-.001230	-3.54	6.90	-7.37
384								-.001220	-6.12	6.31	-7.37
385								-.001210	-6.93	4.69	-8.03
386								-.001200	-6.56	3.36	-7.96
387								-.001190	-4.13	3.88	-6.78
388								-.001180	-4.28	2.69	-7.96
389								-.001170	-5.24	1.73	-9.21
390								-.001160	-6.63	.92	-7.81
391								-.001150	-4.20	2.69	-5.01
392								-.001140	-3.84	2.69	-6.05
393								-.001130	-5.01	1.88	-7.89
394								-.001120	-6.86	.26	-8.18
395								-.001110	-5.75	1.00	-5.60
396								-.001100	-5.82	1.96	-4.94
397								-.001090	-5.46	3.51	-5.31

	L	M	N	O	P	Q	R	S	T
348	9.78	-12.45	10.15	-14.74	7.94	-5.60	.85	-5.31	4.10
349	10.30	-12.68	10.74	-11.72	5.87	-3.69	.40	-4.87	7.13
350	12.59	-10.61	11.63	-10.02	4.91	-1.48	-.19	-4.43	8.90
351	12.81	-8.77	11.41	-10.32	6.90	-1.70	.11	-5.97	7.35
352	9.12	-9.43	10.01	-13.56	7.13	-3.98	.55	-7.00	4.47
353	7.05	-10.32	9.71	-14.22	6.46	-4.72	2.40	-6.19	2.92
354	8.68	-11.35	9.27	-14.08	4.39	-4.65	1.73	-4.72	2.77
355	11.04	-11.64	9.05	-12.82	4.54	-1.99	1.29	-4.57	2.92
356	9.19	-11.35	8.38	-12.53	4.76	-1.33	.18	-3.39	4.69
357	7.79	-10.47	7.94	-12.16	5.13	-.74	.48	-3.17	4.39
358	8.53	-10.47	7.72	-12.75	3.14	-2.29	-.19	-2.80	4.54
359	9.71	-10.83	8.82	-12.01	3.51	-1.63	.85	-4.57	3.80
360	7.35	-11.87	9.19	-13.41	4.98	-2.66	.40	-5.16	1.81
361	5.80	-11.35	8.38	-14.37	6.24	-2.07	1.00	-5.46	-.63
362	6.90	-9.58	7.94	-14.15	4.69	-3.17	.70	-4.43	1.22
363	9.93	-10.02	8.68	-11.79	3.95	-4.79	2.40	-6.56	2.47
364	10.30	-11.94	9.41	-11.42	2.99	-6.63	2.03	-7.30	2.47
365	10.89	-12.53	10.30	-12.01	2.99	-4.87	1.44	-5.01	.55
366	11.19	-10.61	11.04	-13.93	1.44	-3.54	.40	-1.33	1.29
367	11.85	-9.73	9.78	-13.34	1.73	-2.58	.55	-2.73	.70
368	10.89	-10.32	6.90	-11.87	2.55	-4.06	-.92	-3.98	1.59
369	11.19	-11.72	4.17	-9.73	4.32	-4.87	-1.81	-4.06	2.03
370	10.60	-11.05	5.35	-10.54	3.06	-6.27	-2.55	-3.25	2.18
371	10.45	-9.66	7.64	-11.35	3.21	-5.53	-.11	-4.13	.77
372	8.45	-10.69	7.64	-12.97	3.95	-5.31	1.36	-3.25	.55
373	7.42	-12.53	6.09	-12.53	5.13	-4.94	1.29	-3.91	.70
374	8.09	-12.01	6.24	-12.31	3.73	-5.46	1.14	-4.79	1.88
375	10.15	-9.88	7.86	-12.23	3.36	-3.91	3.43	-5.09	2.92
376	9.27	-8.48	8.31	-13.56	3.43	-3.25	4.25	-4.57	2.69
377	8.82	-9.29	6.61	-12.68	4.84	-2.95	4.02	-4.13	.63
378	8.97	-10.76	5.06	-12.09	3.43	-4.35	2.10	-1.63	-.48
379	9.93	-11.05	4.25	-10.91	2.55	-3.76	1.59	-.59	-2.40
380	8.53	-10.02	5.21	-10.98	2.18	-4.06	1.00	-2.22	-2.99
381	8.60	-9.14	7.94	-11.42	2.55	-4.50	2.18	-6.34	-1.81
382	9.27	-11.28	8.90	-12.38	2.03	-6.78	2.03	-5.82	1.29
383	9.93	-13.26	8.23	-10.17	2.32	-5.90	2.92	-3.10	1.00
384	8.16	-11.42	7.72	-9.73	2.18	-6.34	1.73	-2.22	-.92
385	7.57	-8.84	7.86	-10.32	2.25	-5.82	2.47	-5.31	-2.62
386	8.23	-10.17	7.13	-12.60	1.00	-6.49	2.18	-5.60	-1.15
387	9.71	-12.38	4.98	-11.72	-.19	-4.94	3.21	-5.16	-1.07
388	7.57	-11.13	3.21	-11.50	-1.52	-4.65	3.21	-2.44	-.63
389	4.02	-8.99	4.25	-10.76	-.33	-4.28	4.54	-2.36	-2.25
390	3.36	-9.43	7.42	-11.57	.55	-5.31	4.17	-2.29	-2.77
391	6.68	-11.72	8.23	-12.82	-.48	-4.28	4.91	-3.10	-2.70
392	7.49	-12.01	6.76	-14.66	-3.21	-4.43	3.88	-2.36	.26
393	6.90	-10.39	6.90	-14.00	-1.29	-5.90	3.58	-2.80	.55
394	6.24	-9.58	7.42	-13.71	1.00	-6.56	4.69	-2.73	.85
395	8.53	-9.95	6.90	-12.68	2.25	-4.28	6.46	-2.95	1.51
396	8.31	-10.17	6.02	-12.09	1.73	-3.98	5.28	-2.73	1.59
397	7.64	-9.58	6.31	-10.17	3.21	-5.24	2.92	-3.47	-.48

	U	V	W	X	Y	Z	AA	AB	AC	AD
348	-.001580	10.76	11.46	-9.88	8.26	-8.55	4.29		0.00343	-7.66630745
349	-.001570	11.71	9.98	-10.15	8.73	-6.76	4.47		0.00344	-3.98306036
350	-.001560	10.68	9.83	-8.50	10.20	-5.31	4.54		0.00345	-4.57237959
351	-.001550	10.02	11.83	-6.61	10.72	-6.00	4.79		0.00346	-6.11934376
352	-.001540	8.62	12.42	-7.62	8.53	-8.18	4.05		0.00347	-6.48766804
353	-.001530	8.25	11.16	-8.38	7.45	-8.38	3.93		0.00348	-5.3090291
354	-.001520	7.44	9.10	-8.40	7.79	-7.81	2.96		0.00349	-5.38269424
355	-.001510	8.47	9.98	-7.91	8.41	-6.46	2.92		0.0035	-5.45635891
356	-.001500	8.10	11.02	-9.07	6.95	-5.75	3.21		0.00351	-6.70866299
357	-.001490	8.03	11.02	-9.24	6.61	-5.36	3.33		0.00352	-6.19300842
358	-.001480	6.78	8.21	-8.92	7.13	-5.95	2.50		0.00353	-5.82468367
359	-.001470	7.74	8.73	-7.49	8.13	-6.07	2.72		0.00354	-5.53002405
360	-.001460	9.13	11.46	-7.81	7.32	-7.08	2.40		0.00355	-5.01436949
361	-.001450	9.13	12.49	-8.38	6.78	-7.30	2.20		0.00356	-4.57237959
362	-.001440	6.56	9.83	-7.91	7.30	-7.25	2.20		0.00357	-6.78232813
363	-.001430	6.92	9.76	-7.08	8.85	-7.72	2.94		0.00358	-7.81363726
364	-.001420	6.34	10.28	-8.38	8.80	-8.45	2.50		0.00359	-7.4453125
365	-.001410	6.41	10.57	-9.48	8.87	-7.30	1.66		0.0036	-6.04567862
366	-.001400	5.16	8.80	-8.92	8.77	-6.27	1.04		0.00361	-7.29798269
367	-.001390	8.03	10.06	-7.57	8.60	-6.22	1.00		0.00362	-8.55028629
368	-.001380	8.99	10.28	-8.43	7.03	-6.63	1.07		0.00363	-6.63499832
369	-.001370	8.03	9.02	-9.61	6.71	-6.22	1.51		0.00364	-3.5410707
370	-.001360	6.92	6.58	-8.80	7.52	-6.68	.90		0.00365	-4.71970987
371	-.001350	8.10	5.18	-6.63	8.43	-7.00	1.29		0.00366	-5.67735386
372	-.001340	10.02	6.44	-7.72	6.73	-7.18	1.96		0.00367	-4.64604473
373	-.001330	9.21	7.62	-8.94	5.94	-7.13	2.37		0.00368	-2.65709138
374	-.001320	6.78	7.47	-8.55	7.17	-7.52	2.25		0.00369	-5.38269424
375	-.001310	7.59	6.14	-6.63	9.02	-7.08	3.24		0.0037	-6.41400337
376	-.001300	9.58	4.52	-7.18	7.77	-7.13	3.46		0.00371	-3.76206541
377	-.001290	11.49	6.29	-7.62	6.39	-6.59	3.16		0.00372	-1.4047873
378	-.001280	9.87	7.03	-7.30	6.19	-6.02	1.68		0.00373	-2.95175099
379	-.001270	8.32	7.91	-6.56	7.03	-5.09	.58		0.00374	-3.39374065
380	-.001260	7.44	8.21	-7.27	6.44	-5.75	.06		0.00375	-2.95175099
381	-.001250	7.29	8.58	-7.20	6.93	-7.42	.97		0.00376	-3.5410707
382	-.001240	8.32	8.21	-7.79	7.72	-8.33	1.78		0.00377	-6.11934376
383	-.001230	10.76	6.73	-8.06	8.36	-6.39	2.08		0.00378	-6.92965794
384	-.001220	9.28	5.40	-8.30	7.40	-6.09	1.00		0.00379	-6.56133318
385	-.001210	7.74	6.66	-7.94	6.71	-7.15	.70		0.0038	-4.13039017
386	-.001200	7.37	6.58	-8.23	6.24	-8.23	.68		0.00381	-4.27771997
387	-.001190	10.39	8.06	-7.76	6.19	-7.27	.65		0.00382	-5.23536444
388	-.001180	10.24	7.18	-7.79	4.49	-6.19	.36		0.00383	-6.63499832
389	-.001170	8.10	6.51	-7.81	3.33	-5.80	.65		0.00384	-4.20405531
390	-.001160	6.85	6.73	-7.96	3.90	-6.39	.65		0.00385	-3.83573031
391	-.001150	7.88	8.65	-6.98	5.87	-6.73	.58		0.00386	-5.01436949
392	-.001140	8.99	10.79	-7.30	5.65	-7.15	.31		0.00387	-6.85599279
393	-.001130	8.10	10.50	-7.76	5.23	-7.57	.95		0.00388	-5.751019
394	-.001120	6.04	8.65	-8.21	4.64	-7.67	2.18		0.00389	-5.82468367
395	-.001110	6.70	8.65	-7.10	5.48	-6.63	3.41		0.0039	-5.45635891
396	-.001100	8.40	7.32	-6.98	5.43	-6.27	2.87		0.00391	-6.26667356
397	-.001090	10.61	7.10	-6.78	5.82	-6.29	1.88		0.00392	-4.86703968

	AE	AF	AG	AH	AI
348	-7.22431755	-10.61290455	-10.02358532	-1.47845232	-4.42504978
349	-7.07698774	-8.77128124	-10.31824493	-1.69944715	-5.97201347
350	-8.84494591	-9.43426609	-13.5595026	-3.98306036	-7.00332308
351	-8.69761658	-10.31824493	-14.22248745	-4.71970987	-6.19300842
352	-7.37164736	-11.34955406	-14.07515717	-4.64604473	-4.71970987
353	-6.78232813	-11.64421368	-12.82285309	-1.99410689	-4.57237959
354	-10.46557522	-11.34955406	-12.52819347	-1.3311224	-3.39374065
355	-11.79154396	-10.46557522	-12.15986919	-0.74180287	-3.17274594
356	-9.58159542	-10.46557522	-12.74918842	-2.28876662	-2.80442119
357	-5.45635891	-10.8338995	-12.01253891	-1.62578213	-4.57237959
358	-5.751019	-11.86520863	-13.41217232	-2.65709138	-5.1616993
359	-8.25562668	-11.34955406	-14.36981678	-2.06777191	-5.45635891
360	-9.13960648	-9.58159542	-14.14882183	-3.17274594	-4.42504978
361	-6.63499832	-10.02358532	-11.79154396	-4.79337454	-6.56133318
362	-6.41400337	-11.93887424	-11.42321968	-6.63499832	-7.29798269
363	-8.10829735	-12.52819347	-12.01253891	-4.86703968	-5.01436949
364	-8.69761658	-10.61290455	-13.92782688	-3.5410707	-1.3311224
365	-6.92965794	-9.7289257	-13.33850765	-2.58342648	-2.73075628
366	-7.66630745	-10.31824493	-11.86520863	-4.05672503	-3.98306036
367	-8.55028629	-11.7178793	-9.7289257	-4.86703968	-4.05672503
368	-8.69761658	-11.05489445	-10.53923988	-6.26667356	-3.24641085
369	-6.70866299	-9.65526104	-11.34955406	-5.53002405	-4.13039017
370	-7.73997211	-10.68657017	-12.97018337	-5.3090291	-3.24641085
371	-8.62395191	-12.52819347	-12.52819347	-4.94070435	-3.90939546
372	-8.99227619	-12.01253891	-12.30719852	-5.45635891	-4.79337454
373	-7.37164736	-9.87625599	-12.23353386	-3.90939546	-5.08803463
374	-7.66630745	-8.47662163	-13.5595026	-3.24641085	-4.57237959
375	-7.15065289	-9.28693581	-12.67552376	-2.95175099	-4.13039017
376	-7.37164736	-10.76023483	-12.08620358	-4.35138512	-1.62578213
377	-7.22431755	-11.05489445	-10.90756512	-3.76206541	-0.594473
378	-8.84494591	-10.02358532	-10.98122978	-4.05672503	-2.21510172
379	-9.06594086	-9.13960648	-11.42321968	-4.49871492	-6.34033823
380	-9.13960648	-11.2758894	-12.38086319	-6.78232813	-5.82468367
381	-7.37164736	-13.26484299	-10.1709156	-5.89834881	-3.09908104
382	-7.37164736	-11.42321968	-9.7289257	-6.34033823	-2.21510172
383	-8.03463173	-8.84494591	-10.31824493	-5.82468367	-5.3090291
384	-7.96096706	-10.1709156	-12.60185814	-6.48766804	-5.60368919
385	-6.78232813	-12.38086319	-11.7178793	-4.94070435	-5.1616993
386	-7.96096706	-11.12855911	-11.49688435	-4.64604473	-2.43609643
387	-9.21327114	-8.99227619	-10.76023483	-4.27771997	-2.36243153
388	-7.81363726	-9.43426609	-11.57054901	-5.3090291	-2.28876662
389	-5.01436949	-11.7178793	-12.82285309	-4.27771997	-3.09908104
390	-6.04567862	-12.01253891	-14.66447639	-4.42504978	-2.36243153
391	-7.88730192	-10.39191055	-14.0014925	-5.89834881	-2.80442119
392	-8.18196201	-9.58159542	-13.70683289	-6.56133318	-2.73075628
393	-5.60368919	-9.94992065	-12.67552376	-4.27771997	-2.95175099
394	-4.94070435	-10.1709156	-12.08620358	-3.98306036	-2.73075628
395	-5.3090291	-9.58159542	-10.1709156	-5.23536444	-3.4674058
396	-7.15065289	-9.13960648	-10.53923988	-5.89834881	-2.36243153
397	-6.48766804	-10.1709156	-12.52819347	-4.57237959	-1.62578213

	AJ	AK	AL	AM	AN
348	6.38690472	12.59071255	11.63059902	4.90980816	-0.18617664
349	7.93785667	12.81227684	11.40903473	6.9038887	0.10924275
350	6.46075964	9.11953449	10.00579262	7.12545347	0.55237186
351	5.57450151	7.05159855	9.71037292	6.46075964	2.39874315
352	5.42679167	8.67640495	9.26724434	4.39282417	1.73404944
353	5.13137245	11.03976059	9.04567909	4.54053354	1.29092038
354	3.28500128	9.19338894	8.38098621	4.76209831	0.1830976
355	4.09740448	7.79014683	7.93785667	5.13137245	0.478517
356	5.13137245	8.52869511	7.71629238	3.13729167	-0.18617664
357	5.86992073	9.71037292	8.8241148	3.50656581	0.84779125
358	5.42679167	7.34701777	9.19338894	4.98366261	0.40466216
359	6.16534042	5.79606628	8.38098621	6.23919535	0.99550092
360	7.05159855	6.9038887	7.93785667	4.68824339	0.70008153
361	7.93785667	9.93193722	8.67640495	3.94969487	2.39874315
362	6.68232441	10.30121231	9.41495323	2.98958182	2.02946877
363	5.42679167	10.89205074	10.30121231	2.98958182	1.43862998
364	4.09740448	11.18747044	11.03976059	1.43862998	0.40466216
365	4.1712594	11.85216331	9.78422832	1.73404944	0.55237186
366	3.28500128	10.89205074	6.9038887	2.54645276	-0.92472512
367	4.76209831	11.18747044	4.1712594	4.31896925	-1.8109833
368	6.60846949	10.59663105	5.35293722	3.06343675	-2.5495317
369	7.1993084	10.4489212	7.64243746	3.21114635	-0.11232179
370	4.09740448	8.45484066	7.64243746	3.94969487	1.36477518
371	4.31896925	7.42087269	6.0914855	5.13137245	1.29092038
372	7.1993084	8.08556652	6.23919535	3.72813034	1.14321065
373	9.04567909	10.15350246	7.86400175	3.3588562	3.43271089
374	5.72221136	9.26724434	8.30713081	3.43271089	4.24511433
375	3.72813034	8.8241148	6.60846949	4.83595324	4.02354956
376	4.54053354	8.97182465	5.05751753	3.43271089	2.1033237
377	6.9038887	9.93193722	4.24511433	2.54645276	1.58633971
378	5.57450151	8.52869511	5.20522738	2.17717862	0.99550092
379	4.24511433	8.60255051	7.93785667	2.54645276	2.17717862
380	4.98366261	9.26724434	8.8979702	2.02946877	2.02946877
381	6.9038887	9.93193722	8.23327637	2.32488823	2.9157269
382	6.31305027	8.15942097	7.71629238	2.17717862	1.73404944
383	4.68824339	7.56858253	7.86400175	2.25103331	2.47259784
384	3.3588562	8.23327637	7.12545347	0.99550092	2.17717862
385	3.87583995	9.71037292	4.98366261	-0.18617664	3.21114635
386	2.69416237	7.56858253	3.21114635	-1.51556396	3.21114635
387	1.73404944	4.02354956	4.24511433	-0.33388633	4.54053354
388	0.92164612	3.3588562	7.42087269	0.55237186	4.1712594
389	2.69416237	6.68232441	8.23327637	-0.48159602	4.90980816
390	2.69416237	7.49472761	6.75617933	-3.21422553	3.87583995
391	1.88175917	6.9038887	6.9038887	-1.29399931	3.58042073
392	0.25695246	6.23919535	7.42087269	0.99550092	4.68824339
393	0.99550092	8.52869511	6.9038887	2.25103331	6.46075964
394	1.95561397	8.30713081	6.01763058	1.73404944	5.2790823
395	3.50656581	7.64243746	6.31305027	3.21114635	2.9157269
396	2.9157269	6.53461456	7.42087269	4.54053354	1.43862998
397	3.58042073	7.93785667	6.9038887	5.2790823	0.92164612

	AO	AP	AQ	AR	AS
348	8.8979702	10.68175983	9.8346014	-8.50117683	-5.3090291
349	7.34701777	10.01877499	11.82868195	-6.61044312	-5.99656868
350	4.46667862	8.61914158	12.41952133	-7.61719704	-8.18196201
351	2.9157269	8.25081635	11.16398907	-8.37840176	-8.37840176
352	2.76801729	7.44050217	9.09605312	-8.40295601	-7.81363726
353	2.9157269	8.47181129	9.98231125	-7.91185713	-6.46311331
354	4.68824339	8.10348701	11.01627922	-9.06594086	-5.751019
355	4.39282417	8.0298214	11.01627922	-9.23782635	-5.35813951
356	4.54053354	6.7775178	8.209795	-8.91861153	-5.94745874
357	3.80198526	7.73516178	8.72677898	-7.49442244	-6.07023335
358	1.80790424	9.13479614	11.45940781	-7.81363726	-7.07698774
359	-0.62930572	9.13479614	12.49337578	-8.37840176	-7.29798269
360	1.21706545	6.55652285	9.8346014	-7.91185713	-7.24887276
361	2.47259784	6.9248476	9.76074696	-7.07698774	-7.71541739
362	2.47259784	6.3355279	10.27773094	-8.37840176	-8.45206642
363	0.55237186	6.40919304	10.57314968	-9.48337555	-7.29798269
364	1.29092038	5.15688896	8.80063343	-8.91861153	-6.26667309
365	0.70008153	8.0298214	10.0561657	-7.56808758	-6.21756363
366	1.58633971	8.98746586	10.27773094	-8.42751122	-6.63499784
367	2.02946877	8.0298214	9.02219772	-9.60615063	-6.21756363
368	2.17717862	6.9248476	6.58498812	-8.79583645	-6.68410826
369	0.77393639	8.10348701	5.18174601	-6.63499832	-7.0033226
370	0.55237186	10.01877499	6.43727827	-7.71541739	-7.17520761
371	0.70008153	9.20846081	7.61895609	-8.94316673	-7.12609768
372	1.88175917	6.7775178	7.47124624	-8.55028629	-7.51897717
373	2.9157269	7.58783197	6.14185905	-6.63499832	-7.07698822
374	2.69416237	9.57678509	4.51705217	-7.17520761	-7.12609768
375	0.62622672	11.49207401	6.28956842	-7.61719751	-6.58588839
376	-0.48159602	9.87144566	7.02811718	-7.29798269	-6.02112341
377	-2.40182209	8.32448196	7.91437531	-6.56133318	-5.08803463
378	-2.992661	7.44050217	8.209795	-7.27342749	-5.751019
379	-1.8109833	7.29317236	8.57906914	-7.19976282	-7.42075777
380	1.29092038	8.32448196	8.209795	-7.78908253	-8.32929134
381	0.99550092	10.7554245	6.73269796	-8.05918694	-6.38944864
382	-0.92472512	9.28212547	5.4033103	-8.30473709	-6.09478855
383	-2.62338662	7.73516178	6.65884304	-7.93641186	-7.15065241
384	-1.14628971	7.36683702	6.58498812	-8.23107147	-8.23107147
385	-1.07243478	10.38710022	8.06208515	-7.76452732	-7.27342749
386	-0.62930572	10.23976994	7.17582703	-7.78908205	-6.19300842
387	-2.25411248	8.10348701	6.51113319	-7.81363726	-5.80012894
388	-2.77109623	6.85118246	6.73269796	-7.96096706	-6.38944817
389	-2.69724154	7.88249207	8.65292358	-6.97876787	-6.73321819
390	0.25695246	8.98746586	10.79471397	-7.29798269	-7.15065241
391	0.55237186	8.10348701	10.49929523	-7.76452732	-7.56808758
392	0.84779125	6.04086828	8.65292358	-8.20651627	-7.66630745
393	1.51248491	6.70385265	8.65292358	-7.10154295	-6.63499832
394	1.58633971	8.39814663	7.3235364	-6.97876787	-6.26667356
395	-0.48159602	10.60809422	7.1019721	-6.78232765	-6.29122877
396	-1.36785424	9.57678509	6.51113319	-7.51897764	-6.26667356
397	-1.51556396	8.91380119	6.88040733	-7.17520761	-6.24211836

	AT	AU
348	10.20273876	4.54053402
349	10.71972275	4.78671646
350	8.52869606	4.04816818
351	7.44549084	3.92507648
352	7.79014683	2.96496367
353	8.40560436	2.9157269
354	6.95312548	3.21114635
355	6.60846949	3.33423781
356	7.12545347	2.49721622
357	8.13480282	2.71878076
358	7.32239962	2.39874291
359	6.78079748	2.20179677
360	7.29778147	2.20179677
361	8.84873295	2.94034529
362	8.79949665	2.49721622
363	8.87335205	1.66019452
364	8.7748785	1.04473746
365	8.60255051	0.99550092
366	7.0269804	1.06935573
367	6.70694256	1.51248491
368	7.51934576	0.89702791
369	8.43022251	1.29092026
370	6.73156071	1.95561397
371	5.94377565	2.37412477
372	7.17469025	2.25103331
373	9.02106094	3.23576474
374	7.76552868	3.45732927
375	6.38690472	3.16190982
376	6.18995857	1.6848129
377	7.02697992	0.57699013
378	6.43614149	0.06000618
379	6.92850733	0.97088271
380	7.71629238	1.78328598
381	8.35636711	2.07870531
382	7.39625454	0.99550098
383	6.70694256	0.70008153
384	6.23919535	0.67546326
385	6.18995857	0.65084499
386	4.49129725	0.35542557
387	3.33423781	0.65084493
388	3.90045834	0.65084499
389	5.86992121	0.57699019
390	5.64835644	0.30618897
391	5.22984552	0.94626445
392	4.63900661	2.17717862
393	5.47602844	3.4080925
394	5.42679167	2.86649036
395	5.82068443	1.88175905
396	5.62373829	1.53710306
397	6.14072227	1.56172144

	A	B	C	D	E	F	G	H	I	J	K
398								-.001080	-6.27	2.92	-7.15
399								-.001070	-4.87	3.58	-6.49
400								-.001060	-2.66	3.36	-6.19
401								-.001050	-1.33	2.92	-6.05
402								-.001040	-4.72	1.00	-7.15
403								-.001030	-6.63	1.73	-5.90
404								-.001020	-6.05	2.99	-5.90
405								-.001010	-4.06	3.51	-6.49
406								-.001000	-4.50	2.03	-8.55
407								-.000990	-4.72	2.69	-6.78
408								-.000980	-6.49	2.32	-4.20
409								-.000970	-7.08	1.51	-4.20
410								-.000960	-5.31	1.14	-7.96
411								-.000950	-1.92	3.43	-8.18
412								-.000940	-2.88	5.87	-6.63
413								-.000930	-6.05	6.68	-5.16
414								-.000920	-7.37	4.84	-6.19
415								-.000910	-4.28	4.39	-6.19
416								-.000900	-3.69	2.92	-7.37
417								-.000890	-5.90	2.55	-8.55
418								-.000880	-8.03	3.29	-9.43
419								-.000870	-7.45	5.87	-7.37
420								-.000860	-7.67	4.61	-6.49
421								-.000850	-7.15	3.06	-7.00
422								-.000840	-6.12	3.21	-9.43
423								-.000830	-4.57	3.95	-9.36
424								-.000820	-6.19	1.73	-9.21
425								-.000810	-6.05	.92	-6.93
426								-.000800	-4.94	2.69	-7.96
427								-.000790	-3.91	6.02	-9.21
428								-.000780	-5.31	6.17	-11.13
429								-.000770	-5.97	6.17	-9.73
430								-.000760	-5.46	7.20	-8.84
431								-.000750	-5.24	7.79	-8.70
432								-.000740	-6.12	4.98	-9.88
433								-.000730	-6.63	3.65	-7.96
434								-.000720	-7.74	4.17	-7.81
435								-.000710	-6.05	6.76	-8.62
436								-.000700	-4.43	6.83	-10.02
437								-.000690	-4.06	6.02	-8.11
438								-.000680	-6.49	5.43	-7.96
439								-.000670	-6.86	6.17	-9.07
440								-.000660	-5.16	5.43	-9.43
441								-.000650	-2.88	5.50	-5.53
442								-.000640	-3.47	5.43	-3.84
443								-.000630	-3.91	5.13	-5.90
444								-.000620	-4.35	3.65	-9.07
445								-.000610	-4.20	3.36	-7.81
446								-.000600	-5.01	3.06	-6.34
447								-.000590	-4.13	2.92	-7.37

	L	M	N	O	P	Q	R	S	T
398	6.53	-9.14	7.42	-10.54	4.54	-5.90	1.44	-2.36	-1.37
399	7.94	-10.17	6.90	-12.53	5.28	-4.57	.92	-1.63	-1.52
400	7.79	-10.83	6.90	-14.30	4.98	-4.57	-.78	-1.63	-.41
401	8.09	-9.73	8.16	-12.09	6.09	-5.46	-1.81	-2.14	.11
402	6.76	-8.99	8.45	-11.79	5.06	-6.78	-3.21	-2.58	.85
403	7.27	-10.69	6.31	-12.53	4.69	-5.46	-3.21	-4.43	-.11
404	7.49	-13.04	3.88	-14.15	3.36	-4.06	-1.96	-4.72	.11
405	7.64	-11.35	4.54	-13.56	3.95	-3.47	-.19	-3.98	1.22
406	4.84	-8.99	5.35	-13.26	5.13	-5.46	-2.70	-2.36	3.65
407	4.10	-11.20	4.84	-13.04	6.09	-4.06	-2.11	-2.95	3.73
408	5.13	-13.85	4.10	-15.25	3.73	-1.92	.11	-2.51	4.91
409	6.83	-12.01	4.47	-14.89	2.92	-1.63	1.00	-4.57	2.84
410	6.02	-8.99	4.17	-12.97	3.73	-6.05	-1.81	-5.75	1.81
411	5.57	-10.17	3.06	-10.76	4.98	-5.90	-1.66	-7.45	2.03
412	5.13	-12.53	4.39	-11.64	1.66	-4.57	.55	-5.01	4.39
413	6.09	-12.01	6.76	-11.72	-.92	-2.88	2.40	-2.66	3.58
414	6.17	-9.66	6.46	-11.94	-1.37	-2.36	.11	-1.55	2.77
415	7.72	-8.84	3.65	-11.79	1.44	-2.36	-2.77	-4.28	2.40
416	8.38	-9.14	2.69	-13.19	2.55	-3.98	-2.77	-5.53	4.10
417	8.16	-9.88	5.94	-12.31	2.47	-3.76	-.11	-5.31	3.43
418	6.90	-11.35	8.45	-11.20	1.73	-3.39	-.41	-4.13	3.21
419	7.64	-11.13	6.68	-10.47	3.65	-3.17	-2.03	-5.53	3.43
420	8.23	-10.32	5.13	-11.35	5.21	-3.61	-3.29	-5.46	3.73
421	8.53	-10.02	6.68	-10.02	6.31	-1.99	-1.81	-4.28	.48
422	6.76	-9.80	8.68	-9.58	5.13	-4.06	-1.96	-2.14	-2.25
423	6.90	-9.58	7.86	-8.99	4.10	-5.68	.48	-2.36	-3.66
424	7.49	-9.73	5.72	-11.50	3.29	-5.75	2.77	-2.36	-2.25
425	10.01	-9.29	6.09	-11.64	4.47	-3.17	3.21	-4.43	-2.40
426	8.97	-7.67	8.82	-11.20	4.25	-4.28	.04	-5.16	-2.99
427	8.53	-8.55	8.45	-10.02	4.10	-4.43	-.11	-4.94	-2.55
428	7.79	-12.09	5.87	-12.60	2.18	-4.72	1.29	-3.39	-.63
429	8.23	-14.44	6.17	-13.71	2.25	-5.01	1.59	-4.28	-1.22
430	8.09	-12.97	9.12	-13.12	1.22	-7.59	-1.37	-4.43	-.70
431	7.94	-11.20	10.15	-10.98	.85	-5.53	-1.15	-4.50	.11
432	7.64	-11.42	9.86	-11.64	-.48	-3.84	.26	-2.14	2.99
433	9.05	-12.01	10.01	-11.79	1.59	-2.80	1.00	-3.47	3.21
434	8.68	-11.35	10.45	-12.68	2.25	-2.95	-.63	-5.46	2.77
435	8.97	-11.50	7.94	-11.50	1.73	-2.07	-1.22	-7.00	1.44
436	9.19	-11.79	6.24	-11.28	-.78	-2.44	-.63	-4.87	2.62
437	9.86	-12.53	6.46	-10.47	-.92	-2.22	.26	-3.47	1.44
438	8.97	-13.34	7.86	-11.13	-.78	-2.66	-1.22	-2.29	.26
439	8.23	-14.59	7.86	-10.54	-.85	-1.48	-2.55	-3.03	-.92
440	7.64	-14.44	7.27	-10.76	-1.96	-.67	-2.77	-2.80	.77
441	7.79	-11.72	7.72	-9.66	-1.66	.22	-1.74	-4.13	.18
442	6.76	-9.29	7.20	-9.36	-.78	-.89	-6.09	-3.91	-2.11
443	6.17	-9.66	6.76	-9.14	.33	-1.33	-11.26	-3.54	-3.66
444	5.50	-11.50	7.27	-11.87	-.63	-1.04	-10.53	-3.54	-1.88
445	6.98	-12.60	7.49	-12.01	-.48	-.15	-2.03	-4.87	-.33
446	6.61	-12.53	5.72	-10.76	-1.88	-2.88	1.51	-4.57	-.48
447	6.98	-12.09	4.84	-9.36	-1.29	-5.16	-.11	-4.57	-2.25

	U	V	W	X	Y	Z	AA	AB	AC	AD
398	-.001080	9.58	6.51	-7.52	5.62	-6.27	1.54		0.00393	-2.65709138
399	-.001070	8.91	6.88	-7.18	6.14	-6.24	1.56		0.00394	-1.3311224
400	-.001060	8.69	7.18	-6.56	6.02	-6.83	1.27		0.00395	-4.71970987
401	-.001050	8.40	5.55	-5.70	6.39	-6.56	1.46		0.00396	-6.63499832
402	-.001040	7.81	4.22	-6.95	5.40	-7.05	.90		0.00397	-6.04567862
403	-.001030	7.59	5.03	-7.74	5.11	-7.47	.45		0.00398	-4.05672503
404	-.001020	8.40	6.29	-8.33	4.79	-7.64	.50		0.00399	-4.49871492
405	-.001010	10.46	7.18	-7.30	5.23	-7.00	1.66		0.004	-4.71970987
406	-.001000	9.28	4.44	-7.35	4.07	-7.03	2.03		0.00401	-6.48766804
407	-.000990	9.28	4.30	-7.57	3.88	-6.68	2.57		0.00402	-7.07698774
408	-.000980	8.84	4.89	-8.18	3.85	-6.56	2.92		0.00403	-5.3090291
409	-.000970	10.39	6.66	-7.76	4.27	-7.03	2.25		0.00404	-1.92044199
410	-.000960	9.36	6.51	-7.42	3.78	-8.26	1.24		0.00405	-2.87808609
411	-.000950	7.44	6.58	-6.76	4.02	-8.03	1.78		0.00406	-6.04567862
412	-.000940	8.25	8.73	-7.35	5.13	-7.08	2.20		0.00407	-7.37164736
413	-.000930	9.43	10.57	-7.74	6.51	-5.75	1.68		0.00408	-4.27771997
414	-.000920	9.36	9.91	-7.74	5.82	-5.28	.50		0.00409	-3.68840051
415	-.000910	9.43	7.62	-6.44	5.25	-6.14	.36		0.0041	-5.89834881
416	-.000900	10.46	6.73	-6.73	4.66	-7.57	1.29		0.00411	-8.03463173
417	-.000890	12.23	8.36	-8.11	5.55	-7.13	1.93		0.00412	-7.4453125
418	-.000880	11.27	8.65	-9.61	6.21	-6.24	1.51		0.00413	-7.66630745
419	-.000870	11.34	6.81	-8.65	6.73	-6.39	1.68		0.00414	-7.15065289
420	-.000860	11.49	3.56	-8.16	5.99	-6.81	1.88		0.00415	-6.11934376
421	-.000850	10.31	2.30	-8.06	6.09	-5.43	1.66		0.00416	-4.57237959
422	-.000840	8.99	3.78	-8.45	6.21	-5.26	.31		0.00417	-6.19300842
423	-.000830	8.03	3.70	-7.84	6.24	-5.68	.31		0.00418	-6.04567862
424	-.000820	8.84	2.60	-8.38	4.98	-6.54	1.27		0.00419	-4.94070435
425	-.000810	8.99	3.93	-7.42	5.67	-6.41	1.76		0.0042	-3.90939546
426	-.000800	8.18	5.26	-6.86	6.83	-6.88	.43		0.00421	-5.3090291
427	-.000790	8.40	4.81	-7.22	7.67	-6.46	.48		0.00422	-5.97201347
428	-.000780	8.03	1.71	-9.51	6.61	-6.91	.95		0.00423	-5.45635891
429	-.000770	9.13	1.86	-10.05	6.85	-7.67	.87		0.00424	-5.23536444
430	-.000760	8.55	2.89	-9.09	8.13	-8.38	-.28		0.00425	-6.11934376
431	-.000750	8.62	4.59	-8.38	8.63	-7.00	-.06		0.00426	-6.63499832
432	-.000740	7.66	4.81	-9.14	7.49	-5.87	.92		0.00427	-7.73997211
433	-.000730	7.37	5.26	-8.87	7.57	-6.02	1.93		0.00428	-6.04567862
434	-.000720	8.10	6.44	-8.97	7.77	-7.03	1.46		0.00429	-4.42504978
435	-.000710	9.28	5.85	-8.72	7.89	-6.86	.65		0.0043	-4.05672503
436	-.000700	10.61	4.96	-8.75	7.42	-6.19	.40		0.00431	-6.48766804
437	-.000690	11.71	4.44	-8.23	7.45	-5.38	.26		0.00432	-6.85599279
438	-.000680	10.61	4.07	-9.26	7.42	-5.36	-.58		0.00433	-5.1616993
439	-.000670	8.40	4.96	-10.17	7.42	-5.01	-1.44		0.00434	-2.87808609
440	-.000660	7.81	6.07	-9.68	6.78	-4.74	-1.32		0.00435	-3.4674058
441	-.000650	9.87	6.14	-6.71	7.00	-4.52	-1.07		0.00436	-3.90939546
442	-.000640	10.17	5.11	-5.53	6.46	-4.72	-2.99		0.00437	-4.35138512
443	-.000630	8.10	3.93	-6.49	6.02	-4.67	-4.86		0.00438	-4.20405531
444	-.000620	7.81	5.40	-8.30	5.48	-5.48	-4.35		0.00439	-5.01436949
445	-.000610	9.36	7.69	-8.21	5.94	-5.68	-.95		0.0044	-4.13039017
446	-.000600	10.90	8.51	-7.96	5.13	-6.07	-.28		0.00441	-3.39374065
447	-.000590	10.46	7.91	-7.86	4.91	-6.36	-1.22		0.00442	-2.50976157

	AE	AF	AG	AH	AI
398	-6.19300842	-10.8338995	-14.29615211	-4.57237959	-1.62578213
399	-6.04567862	-9.7289257	-12.08620358	-5.45635891	-2.14143682
400	-7.15065289	-8.99227619	-11.79154396	-6.78232813	-2.58342648
401	-5.89834881	-10.68657017	-12.52819347	-5.45635891	-4.42504978
402	-5.89834881	-13.04384804	-14.14882183	-4.05672503	-4.71970987
403	-6.48766804	-11.34955406	-13.5595026	-3.4674058	-3.98306036
404	-8.55028629	-8.99227619	-13.26484299	-5.45635891	-2.36243153
405	-6.78232813	-11.20222473	-13.04384804	-4.05672503	-2.95175099
406	-4.20405531	-13.85416222	-15.25379658	-1.92044199	-2.50976157
407	-4.20405531	-12.01253891	-14.88547134	-1.62578213	-4.57237959
408	-7.96096706	-8.99227619	-12.97018337	-6.04567862	-5.751019
409	-8.18196201	-10.1709156	-10.76023483	-5.89834881	-7.4453125
410	-6.63499832	-12.52819347	-11.64421368	-4.57237959	-5.01436949
411	-5.1616993	-12.01253891	-11.7178793	-2.87808609	-2.65709138
412	-6.19300842	-9.65526104	-11.93887424	-2.36243153	-1.55211723
413	-6.19300842	-8.84494591	-11.79154396	-2.36243153	-4.27771997
414	-7.37164736	-9.13960648	-13.19117832	-3.98306036	-5.53002405
415	-8.55028629	-9.87625599	-12.30719852	-3.76206541	-5.3090291
416	-9.43426609	-11.34955406	-11.20222473	-3.39374065	-4.13039017
417	-7.37164736	-11.12855911	-10.46557522	-3.17274594	-5.53002405
418	-6.48766804	-10.31824493	-11.34955406	-3.6147356	-5.45635891
419	-7.00332308	-10.02358532	-10.02358532	-1.99410689	-4.27771997
420	-9.43426609	-9.80259037	-9.58159542	-4.05672503	-2.14143682
421	-9.36060143	-9.58159542	-8.99227619	-5.67735386	-2.36243153
422	-9.21327114	-9.7289257	-11.49688435	-5.751019	-2.36243153
423	-6.92965794	-9.28693581	-11.64421368	-3.17274594	-4.42504978
424	-7.96096706	-7.66630745	-11.20222473	-4.27771997	-5.1616993
425	-9.21327114	-8.55028629	-10.02358532	-4.42504978	-4.94070435
426	-11.12855911	-12.08620358	-12.60185814	-4.71970987	-3.39374065
427	-9.7289257	-14.44348145	-13.70683289	-5.01436949	-4.27771997
428	-8.84494591	-12.97018337	-13.1175127	-7.59264231	-4.42504978
429	-8.69761658	-11.20222473	-10.98122978	-5.53002405	-4.49871492
430	-9.87625599	-11.42321968	-11.64421368	-3.83573031	-2.14143682
431	-7.96096706	-12.01253891	-11.79154396	-2.80442119	-3.4674058
432	-7.81363726	-11.34955406	-12.67552376	-2.95175099	-5.45635891
433	-8.62395191	-11.49688435	-11.49688435	-2.06777191	-7.00332308
434	-10.02358532	-11.79154396	-11.2758894	-2.43609643	-4.86703968
435	-8.10829735	-12.52819347	-10.46557522	-2.21510172	-3.4674058
436	-7.96096706	-13.33850765	-11.12855911	-2.65709138	-2.28876662
437	-9.06594086	-14.59081173	-10.53923988	-1.47845232	-3.02541614
438	-9.43426609	-14.44348145	-10.76023483	-0.66813797	-2.80442119
439	-5.53002405	-11.7178793	-9.65526104	0.21584135	-4.13039017
440	-3.83573031	-9.28693581	-9.36060143	-0.88913274	-3.90939546
441	-5.89834881	-9.65526104	-9.13960648	-1.3311224	-3.5410707
442	-9.06594086	-11.49688435	-11.86520863	-1.03646266	-3.5410707
443	-7.81363726	-12.60185814	-12.01253891	-0.15248336	-4.86703968
444	-6.34033823	-12.52819347	-10.76023483	-2.87808609	-4.57237959
445	-7.37164736	-12.08620358	-9.36060143	-5.1616993	-4.57237959
446	-10.02358532	-13.1175127	-12.82285309	-6.34033823	-5.45635891
447	-9.13960648	-13.92782688	-13.48583794	-4.13039017	-7.07698774

	AJ	AK	AL	AM	AN
398	3.3588562	7.79014683	6.9038887	4.98366261	-0.77701545
399	2.9157269	8.08556652	8.15942097	6.0914855	-1.8109833
400	0.99550092	6.75617933	8.45484066	5.05751753	-3.21422553
401	1.73404944	7.27316332	6.31305027	4.68824339	-3.21422553
402	2.98958182	7.49472761	3.87583995	3.3588562	-1.95869303
403	3.50656581	7.64243746	4.54053354	3.94969487	-0.18617664
404	2.02946877	4.83595324	5.35293722	5.13137245	-2.69724154
405	2.69416237	4.09740448	4.83595324	6.0914855	-2.10640264
406	2.32488823	5.13137245	4.09740448	3.72813034	0.10924275
407	1.51248491	6.83003378	4.46667862	2.9157269	0.99550092
408	1.14321065	6.01763058	4.1712594	3.72813034	-1.8109833
409	3.43271089	5.57450151	3.06343675	4.98366261	-1.66327357
410	5.86992073	5.13137245	4.39282417	1.66019464	0.55237186
411	6.68232441	6.0914855	6.75617933	-0.92472512	2.39874315
412	4.83595324	6.16534042	6.46075964	-1.36785424	0.10924275
413	4.39282417	7.71629238	3.65427542	1.43862998	-2.77109623
414	2.9157269	8.38098621	2.69416237	2.54645276	-2.77109623
415	2.54645276	8.15942097	5.94377565	2.47259784	-0.11232179
416	3.28500128	6.9038887	8.45484066	1.73404944	-0.40774119
417	5.86992073	7.64243746	6.68232441	3.65427542	-2.03254795
418	4.61438847	8.23327637	5.13137245	5.20522738	-3.28808022
419	3.06343675	8.52869511	6.68232441	6.31305027	-1.8109833
420	3.21114635	6.75617933	8.67640495	5.13137245	-1.95869303
421	3.94969487	6.9038887	7.86400175	4.09740448	0.478517
422	1.73404944	7.49472761	5.72221136	3.28500128	2.76801729
423	0.92164612	10.00579262	6.0914855	4.46667862	3.21114635
424	2.69416237	8.97182465	8.8241148	4.24511433	0.03538791
425	6.01763058	8.52869511	8.45484066	4.09740448	-0.11232179
426	6.16534042	7.79014683	5.86992073	2.17717862	1.29092038
427	6.16534042	8.23327637	6.16534042	2.25103331	1.58633971
428	7.1993084	8.08556652	9.11953449	1.21706545	-1.36785424
429	7.79014683	7.93785667	10.15350246	0.84779125	-1.14628971
430	4.98366261	7.64243746	9.85808277	-0.48159602	0.25695246
431	3.65427542	9.04567909	10.00579262	1.58633971	0.99550092
432	4.1712594	8.67640495	10.4489212	2.25103331	-0.62930572
433	6.75617933	8.97182465	7.93785667	1.73404944	-1.22014451
434	6.83003378	9.19338894	6.23919535	-0.77701545	-0.62930572
435	6.01763058	9.85808277	6.46075964	-0.92472512	0.25695246
436	5.42679167	8.97182465	7.86400175	-0.77701545	-1.22014451
437	6.16534042	8.23327637	7.86400175	-0.85087025	-2.5495317
438	5.42679167	7.64243746	7.27316332	-1.95869303	-2.77109623
439	5.50064659	7.79014683	7.71629238	-1.66327357	-1.7371285
440	5.42679167	6.75617933	7.1993084	-0.77701545	-6.09456444
441	5.13137245	6.16534042	6.75617933	0.3308073	-11.2644043
442	3.65427542	5.50064659	7.27316332	-0.62930572	-10.52585506
443	3.3588562	6.97774363	7.49472761	-0.48159602	-2.03254795
444	3.06343675	6.60846949	5.72221136	-1.8848381	1.51248491
445	2.9157269	6.97774363	4.83595324	-1.29399931	-0.11232179
446	1.21706545	8.23327637	5.57450151	0.3308073	-3.95277381
447	1.73404944	11.03976059	6.0914855	2.84187222	-6.75925827

	AO	AP	AQ	AR	AS
398	-0.40774119	8.69280624	7.17582703	-6.56133318	-6.83143806
399	0.10924275	8.39814663	5.55102015	-5.70190907	-6.56133318
400	0.84779125	7.80882692	4.22163296	-6.95421314	-7.05243301
401	-0.11232179	7.58783197	5.03403616	-7.73997259	-7.46986723
402	0.10924275	8.39814663	6.28956842	-8.3292923	-7.64175224
403	1.21706545	10.46076488	7.17582703	-7.29798222	-7.00332308
404	3.65427542	9.28212547	4.44319725	-7.34709263	-7.02787781
405	3.72813034	9.28212547	4.29548788	-7.56808758	-6.68410778
406	4.90980816	8.84013653	4.88632631	-8.18196201	-6.56133318
407	2.84187222	10.38710022	6.65884304	-7.76452732	-7.02787781
408	1.80790424	9.35579109	6.51113319	-7.42075729	-8.25562668
409	2.02946877	7.44050217	6.58498812	-6.7577734	-8.03463173
410	4.39282417	8.25081635	8.72677898	-7.34709263	-7.07698774
411	3.58042073	9.42945576	10.57314968	-7.73997211	-5.751019
412	2.76801729	9.35579109	9.90845585	-7.73997211	-5.28447437
413	2.39874315	9.42945576	7.61895609	-6.4385581	-6.14389849
414	4.09740448	10.46076488	6.73269796	-6.73321819	-7.56808758
415	3.43271089	12.22872353	8.35750484	-8.10829735	-7.12609768
416	3.21114635	11.27107906	8.65292358	-9.60615063	-6.24211836
417	3.43271089	11.34474373	6.80655241	-8.64850616	-6.38944817
418	3.72813034	11.49207401	3.55693913	-8.15740681	-6.80688286
419	0.478517	10.3134346	2.30140686	-8.05918694	-5.43180418
420	-2.25411248	8.98746586	3.77850389	-8.45206642	-5.25991917
421	-3.65735459	8.0298214	3.70464897	-7.83819199	-5.67735386
422	-2.25411248	8.84013653	2.59682631	-8.37840176	-6.53677845
423	-2.40182209	8.98746586	3.9262135	-7.42075729	-6.41400337
424	-2.992661	8.17715168	5.25560093	-6.85599279	-6.880548
425	-2.5495317	8.39814663	4.81247187	-7.22431755	-6.46311331
426	-0.62930572	8.0298214	1.71056807	-9.50793076	-6.90510273
427	-1.22014451	9.13479614	1.85827768	-10.04814053	-7.66630745
428	-0.70316058	8.54547596	2.89224553	-9.09049606	-8.37840176
429	0.10924275	8.61914158	4.5909071	-8.37840176	-7.00332308
430	2.98958182	7.66149712	4.81247187	-9.13960648	-5.8737936
431	3.21114635	7.36683702	5.25560093	-8.86950111	-6.02112389
432	2.76801729	8.10348701	6.43727827	-8.96772099	-7.02787781
433	1.43862998	9.28212547	5.84643936	-8.72217178	-6.85599327
434	2.62030768	10.60809422	4.96018124	-8.74672604	-6.19300842
435	1.43862998	11.71306896	4.44319725	-8.23107147	-5.38269424
436	0.25695246	10.60809422	4.07392311	-9.2623806	-5.35813904
437	-0.92472512	8.39814663	4.96018124	-10.1709156	-5.01436949
438	0.77393639	7.80882692	6.06800413	-9.67981529	-4.7442646
439	0.1830976	9.87144566	6.14185905	-6.70866299	-4.52327013
440	-2.10640264	10.16610527	5.10789108	-5.53002405	-4.71970987
441	-3.65735459	8.10348701	3.9262135	-6.48766851	-4.67059994
442	-1.8848381	7.80882692	5.4033103	-8.30473709	-5.48091412
443	-0.33388633	9.35579109	7.69281054	-8.20651722	-5.67735386
444	-0.48159602	10.90275478	8.50521374	-7.96096706	-6.07023335
445	-2.25411248	10.46076488	7.91437531	-7.86274719	-6.36489344
446	-2.18025756	7.66149712	7.02811718	-8.84494591	-8.20651627
447	-0.77701545	6.7775178	8.65292358	-8.52573204	-8.23107147

	AT	AU
398	6.01763058	1.26630199
399	6.38690472	1.46324837
400	5.40217352	0.89702773
401	5.1067543	0.4538987
402	4.78671646	0.50313532
403	5.22984552	1.66019452
404	4.07278633	2.02946877
405	3.87583995	2.57107115
406	3.8512218	2.91572714
407	4.26973248	2.25103331
408	3.77736688	1.24168372
409	4.02354956	1.78328598
410	5.13137245	2.20179701
411	6.50999641	1.6848129
412	5.82068443	0.50313526
413	5.25446415	0.35542563
414	4.66362524	1.29092038
415	5.54988289	1.9309957
416	6.21457672	1.51248491
417	6.73156071	1.68481278
418	5.99301243	1.88175917
419	6.0914855	1.66019464
420	6.21457672	0.30618897
421	6.23919487	0.30618897
422	4.98366261	1.26630199
423	5.67297459	1.75866759
424	6.83003378	0.4292804
425	7.66705561	0.478517
426	6.60846949	0.94626445
427	6.8546524	0.87240952
428	8.13480282	-0.28464979
429	8.62716866	-0.06308524
430	7.49472761	0.92164612
431	7.56858253	1.9309957
432	7.76552868	1.46324825
433	7.88862038	0.65084499
434	7.42087269	0.40466216
435	7.44549084	0.25695243
436	7.42087269	-0.58006918
437	7.42087269	-1.44170904
438	6.78079748	-1.31861758
439	7.00236177	-1.07243478
440	6.46075964	-2.99266076
441	6.01763058	-4.86365032
442	5.47602844	-4.34666634
443	5.94377565	-0.94934344
444	5.13137245	-0.28464973
445	4.90980816	-1.22014451
446	5.00828123	-1.93407464
447	6.28843164	-1.5648005

	A	B	C	D	E	F	G	H	I	J	K
448								-.000580	-3.39	1.22	-10.02
449								-.000570	-2.51	1.73	-9.14
450								-.000560	-4.87	1.22	-8.99
451								-.000550	-5.53	.70	-7.67
452								-.000540	-5.75	4.39	-8.77
453								-.000530	-7.45	12.07	-9.88
454								-.000520	-7.96	12.07	-11.50
455								-.000510	-3.47	.77	-7.67
456								-.000500	-1.48	-8.31	-5.16
457								-.000490	-4.79	-3.88	-6.34
458								-.000480	-8.48	6.31	-9.95
459								-.000470	-6.12	13.18	-9.95
460								-.000460	-2.14	12.37	-7.81
461								-.000450	-.01	7.20	-2.88
462								-.000440	-4.35	.55	-.89
463								-.000430	-9.58	2.92	-5.31
464								-.000420	-11.57	9.41	-13.12
465								-.000410	-5.46	9.41	-11.64
466								-.000400	-.30	-2.11	-4.20
467								-.000390	-1.04	-10.53	-2.14
468								-.000380	-7.08	-9.05	-8.99
469								-.000370	-7.67	-2.33	-10.32
470								-.000360	-5.68	-4.54	-6.86
471								-.000350	-3.98	-6.54	-4.94
472								-.000340	-4.13	-1.81	-7.81
473								-.000330	-1.55	2.69	-6.05
474								-.000320	.29	-7.50	-2.51
475								-.000310	-3.54	-18.50	-1.40
476								-.000300	-9.73	-10.60	-7.67
477								-.000290	-6.41	4.32	-11.79
478								-.000280	3.09	2.25	-10.17
479								-.000270	8.54	-10.90	-4.57
480								-.000260	2.65	-17.25	-2.88
481								-.000250	-6.63	-8.68	-4.13
482								-.000240	-9.43	6.46	-7.52
483								-.000230	-2.80	16.21	-7.96
484								-.000220	4.41	12.81	-7.00
485								-.000210	3.53	5.13	-6.78
486								-.000200	-7.22	2.99	-10.10
487								-.000190	-14.96	8.97	-11.94
488								-.000180	-13.49	14.14	-12.38
489								-.000170	-5.97	13.99	-11.50
490								-.000160	-3.69	9.41	-10.02
491								-.000150	-6.19	7.49	-5.60
492								-.000140	-10.91	5.13	-7.37
493								-.000130	-10.98	4.10	-14.37
494								-.000120	-8.55	5.43	-17.61
495								-.000110	-3.98	7.05	-9.88
496								-.000100	2.06	-2.70	-1.55
497								-.000090	12.37	-16.43	3.53

	L	M	N	O	P	Q	R	S	T
448	8.23	-13.12	5.57	-12.82	.33	-6.34	-3.95	-5.46	-2.18
449	11.04	-13.93	6.09	-13.49	2.84	-4.13	-6.76	-7.08	-.78
450	9.19	-13.78	6.24	-12.38	2.77	-2.36	-8.90	-4.87	.85
451	5.94	-14.08	5.87	-10.02	3.21	-1.63	-4.40	-3.47	-.04
452	3.95	-13.71	4.10	-11.35	2.62	-3.54	2.92	-3.10	-1.07
453	11.19	-12.68	4.39	-11.50	2.92	-2.66	7.94	-4.43	-.78
454	19.83	-12.68	12.66	-11.35	2.77	-4.72	4.47	-3.84	1.66
455	18.87	-11.79	20.49	-9.80	4.69	-6.27	-.48	-4.57	.55
456	5.21	-8.40	12.96	-10.47	5.87	-5.09	-2.77	-2.73	.40
457	.70	-6.41	-1.37	-10.69	6.31	-2.29	-2.84	-2.73	-1.22
458	12.07	-7.96	1.59	-10.61	3.21	-4.35	-7.42	-2.44	-2.40
459	22.04	-11.50	17.69	-10.32	1.66	-5.60	-12.52	-3.61	-5.36
460	17.39	-13.12	23.74	-12.53	1.88	-2.73	-12.74	-.82	-4.54
461	8.90	-11.13	12.15	-12.97	3.95	.51	-6.98	-.01	-5.73
462	4.10	-7.67	.77	-12.60	3.65	-1.85	-1.15	-.82	-10.38
463	6.61	-8.26	-.63	-9.36	1.73	-5.16	4.54	-2.22	-15.10
464	12.00	-13.19	4.25	-8.84	-3.29	-7.74	9.34	-.45	-11.26
465	16.65	-16.51	8.82	-9.88	-8.61	-6.78	9.86	-.67	-4.91
466	10.15	-13.56	9.19	-11.87	-12.00	-5.46	5.28	-1.33	-.85
467	-1.81	-9.58	.33	-11.05	-10.45	-2.80	6.83	-2.44	-2.84
468	-4.77	-10.47	-11.12	-12.68	-7.28	-2.80	11.63	-2.14	-6.98
469	4.61	-13.04	-10.67	-13.49	-2.33	-2.80	13.92	-1.70	-10.45
470	6.46	-12.23	-2.99	-13.12	-1.22	-4.72	9.71	.29	-9.86
471	-3.14	-7.96	-3.36	-9.95	-.63	-6.34	4.17	-.30	-7.35
472	-12.08	-6.49	-13.63	-9.43	1.00	-6.34	-2.11	-1.63	-3.58
473	-10.23	-6.49	-15.10	-7.59	7.27	-3.54	-3.73	-1.92	.92
474	-7.79	-7.00	-3.73	-5.90	9.27	-4.43	-1.22	-1.55	3.65
475	-5.36	-7.22	3.95	-6.27	7.49	-5.60	2.25	-4.43	1.07
476	-.92	-7.30	-.41	-9.51	5.13	-5.53	1.44	-4.43	-.78
477	6.98	-7.96	-2.11	-10.61	7.94	-2.51	1.59	-2.07	-.56
478	7.64	-7.00	4.69	-12.38	9.12	-2.22	-.48	1.17	.33
479	5.13	-5.38	6.53	-13.26	8.09	-2.66	-1.96	-.15	-3.44
480	.33	-3.84	-.19	-12.53	5.57	-3.10	-.63	-.01	-5.65
481	-7.57	-5.31	-5.06	-10.76	1.51	-2.95	4.84	-1.63	-6.17
482	-10.53	-8.55	2.18	-11.35	-3.36	-3.84	6.24	-2.29	1.07
483	2.77	-13.71	16.73	-12.60	-3.36	-4.28	4.98	-5.46	9.78
484	15.91	-15.77	23.45	-16.21	-.04	-6.34	5.80	-6.78	15.03
485	10.23	-11.64	11.34	-18.72	2.32	-6.19	9.12	-6.05	12.59
486	-3.73	-5.60	-9.42	-19.45	.11	-5.60	9.27	-3.25	9.34
487	-2.03	-7.67	-22.05	-18.64	-3.14	-5.82	6.24	-3.25	8.23
488	10.30	-15.77	-18.35	-18.35	-6.69	-7.96	.11	-4.20	9.56
489	17.98	-18.42	-3.44	-15.11	-8.01	-4.94	-1.81	-3.25	9.19
490	13.70	-14.89	10.30	-12.23	-8.38	-1.92	2.18	-1.33	6.61
491	8.82	-15.03	12.37	-9.51	-5.80	-2.73	8.97	-2.58	.40
492	11.04	-17.83	7.57	-9.36	-3.95	-5.90	7.20	-2.95	-4.62
493	23.45	-16.06	9.27	-7.81	1.07	-4.57	3.43	-2.29	-7.13
494	34.97	-11.13	16.95	-7.45	6.53	-3.25	2.69	-.08	-5.36
495	29.36	-8.26	20.86	-5.16	13.11	-1.11	5.57	2.50	-3.44
496	7.27	-7.67	20.86	-2.07	15.18	1.91	10.82	6.62	.55
497	40	-5.31	21.38	3.46	16.36	6.40	21.45	10.16	4.69

	U	V	W	X	Y	Z	AA	AB	AC	AD
448	-.000580	7.66	7.03	-8.84	5.01	-8.21	-1.93		0.00443	-4.86703968
449	-.000570	6.78	8.65	-8.53	6.29	-8.23	-1.56		0.00444	-5.53002405
450	-.000560	7.37	9.24	-9.21	5.55	-6.54	-1.76		0.00445	-5.751019
451	-.000550	10.31	9.10	-9.09	4.17	-5.04	-.41		0.00446	-7.4453125
452	-.000540	11.05	7.18	-9.41	4.15	-6.00	1.49		0.00447	-7.96096706
453	-.000530	10.02	5.40	-10.00	9.22	-6.19	3.36		0.00448	-3.4674058
454	-.000520	8.69	4.81	-10.71	14.86	-6.63	2.96		0.00449	-1.47845232
455	-.000510	8.25	4.44	-7.64	13.38	-6.88	1.59		0.0045	-4.79337454
456	-.000500	8.99	5.55	-5.01	3.29	-6.09	1.17		0.00451	-8.47662163
457	-.000490	9.58	7.03	-5.85	-1.52	-5.24	.75		0.00452	-6.11934376
458	-.000480	8.69	6.88	-8.80	6.66	-5.80	-2.20		0.00453	-2.14143682
459	-.000470	7.07	4.66	-9.19	17.64	-6.51	-5.41		0.00454	-0.00515347
460	-.000460	7.51	2.60	-7.69	17.83	-5.36	-5.13		0.00455	-4.35138512
461	-.000450	9.65	4.37	-4.67	9.41	-4.15	-2.92		0.00456	-9.58159542
462	-.000440	11.79	6.73	-4.30	1.81	-5.09	-2.62		0.00457	-11.57054901
463	-.000430	11.20	5.33	-7.72	2.96	-5.58	-2.94		0.00458	-5.45635891
464	-.000420	11.12	2.89	-12.63	8.55	-5.68	-1.74		0.00459	-0.29981324
465	-.000410	10.68	.75	-11.20	11.63	-5.78	-1.22		0.0046	-1.03646266
466	-.000400	11.20	1.93	-6.02	5.75	-6.22	-2.52		0.00461	-7.07698774
467	-.000390	11.49	4.66	-4.25	-4.00	-5.43	-2.16		0.00462	-7.66630745
468	-.000380	9.58	5.18	-8.84	-8.31	-5.87	-.88		0.00463	-5.67735386
469	-.000370	9.87	6.58	-10.34	-2.80	-6.00	.38		0.00464	-3.98306036
470	-.000360	11.27	7.03	-8.26	-.36	-5.85	-.46		0.00465	-4.13039017
471	-.000350	14.00	5.55	-5.63	-4.35	-5.53	-1.27		0.00466	-1.55211723
472	-.000340	13.33	.90	-6.14	-9.17	-5.80	-1.56		0.00467	0.28950629
473	-.000330	10.83	.38	-4.70	-7.55	-4.35	1.49		0.00468	-3.5410707
474	-.000320	8.91	5.99	-3.07	-6.34	-3.96	3.90		0.00469	-9.7289257
475	-.000310	8.62	10.50	-4.06	-6.64	-5.43	3.61		0.0047	-6.41400337
476	-.000300	9.50	9.83	-8.23	-3.98	-6.49	1.93		0.00471	3.08877397
477	-.000290	9.95	6.29	-8.72	3.06	-5.06	2.99		0.00472	8.53997993
478	-.000280	9.36	5.40	-4.70	4.86	-4.47	2.99		0.00473	2.64678431
479	-.000270	9.28	7.62	-.47	.26	-5.36	.90		0.00474	-6.63499832
480	-.000260	7.96	7.62	-1.36	-5.70	-5.21	-.24		0.00475	-9.43426609
481	-.000250	7.66	5.85	-5.36	-7.10	-5.11	.06		0.00476	-2.80442119
482	-.000240	7.00	3.26	-8.50	-.63	-5.82	1.32		0.00477	4.41474295
483	-.000230	7.37	1.12	-8.16	11.90	-7.45	3.80		0.00478	3.53076363
484	-.000220	9.72	3.48	-6.12	17.39	-9.78	6.93		0.00479	-7.22431755
485	-.000210	10.83	9.98	-4.97	8.90	-10.32	8.01		0.0048	-14.95913601
486	-.000200	14.81	21.80	-7.64	-3.39	-9.43	6.24		0.00481	-13.48583794
487	-.000190	20.92	30.37	-11.52	-5.04	-9.24	3.78		0.00482	-5.97201347
488	-.000180	23.28	27.78	-13.88	2.03	-10.17	1.00		0.00483	-3.68840051
489	-.000170	18.42	16.63	-11.96	9.51	-7.76	-.21		0.00484	-6.19300842
490	-.000160	12.08	7.91	-9.53	11.14	-5.16	.13		0.00485	-10.90756512
491	-.000150	11.20	12.35	-8.94	9.56	-4.94	1.19		0.00486	-10.98122978
492	-.000140	13.70	22.32	-12.04	7.91	-6.07	-.46		0.00487	-8.55028629
493	-.000130	16.57	22.39	-13.81	12.27	-4.89	-.88		0.00488	-3.98306036
494	-.000120	19.74	10.13	-12.43	19.11	-3.59	1.29		0.00489	2.05746484
495	-.000110	24.02	-.21	-7.37	19.09	-1.26	5.08		0.0049	12.37055683
496	-.000100	27.11	.01	-2.39	8.48	2.16	8.85		0.00491	20.91568947
497	-.000090	26.81	5.70	3.53	1.78	6.67	14.17		0.00492	23.42029762

	AE	AF	AG	AH	AI
448	-8.99227619	-13.78049755	-12.38086319	-2.36243153	-4.86703968
449	-7.66630745	-14.07515717	-10.02358532	-1.62578213	-3.4674058
450	-8.77128124	-13.70683289	-11.34955406	-3.5410707	-3.09908104
451	-9.87625599	-12.67552376	-11.49688435	-2.65709138	-4.42504978
452	-11.49688435	-12.67552376	-11.34955406	-4.71970987	-3.83573031
453	-7.66630745	-11.79154396	-9.80259037	-6.26667356	-4.57237959
454	-5.1616993	-8.40295696	-10.46557522	-5.08803463	-2.73075628
455	-6.34033823	-6.41400337	-10.68657017	-2.28876662	-2.73075628
456	-9.94992065	-7.96096706	-10.61290455	-4.35138512	-2.43609643
457	-9.94992065	-11.49688435	-10.31824493	-5.60368919	-3.6147356
458	-7.81363726	-13.1175127	-12.52819347	-2.73075628	-0.81546783
459	-2.87808609	-11.12855911	-12.97018337	0.51050109	-0.00515347
460	-0.88913274	-7.66630745	-12.60185814	-1.84677696	-0.81546783
461	-5.3090291	-8.25562668	-9.36060143	-5.1616993	-2.21510172
462	-13.1175127	-13.19117832	-8.84494591	-7.73997211	-0.44714311
463	-11.64421368	-16.5060997	-9.87625599	-6.78232813	-0.66813797
464	-4.20405531	-13.5595026	-11.86520863	-5.45635891	-1.3311224
465	-2.14143682	-9.58159542	-11.05489445	-2.80442119	-2.43609643
466	-8.99227619	-10.46557522	-12.67552376	-2.80442119	-2.14143682
467	-10.31824493	-13.04384804	-13.48583794	-2.80442119	-1.69944715
468	-6.85599279	-12.23353386	-13.1175127	-4.71970987	0.28950629
469	-4.94070435	-7.96096706	-9.94992065	-6.34033823	-0.29981324
470	-7.81363726	-6.48766804	-9.43426609	-6.34033823	-1.62578213
471	-6.04567862	-6.48766804	-7.59264231	-3.5410707	-1.92044199
472	-2.50976157	-7.00332308	-5.89834881	-4.42504978	-1.55211723
473	-1.4047873	-7.22431755	-6.26667356	-5.60368919	-4.42504978
474	-7.66630745	-7.29798269	-9.50793076	-5.53002405	-4.42504978
475	-11.79154396	-7.96096706	-10.61290455	-2.50976157	-2.06777191
476	-10.1709156	-7.00332308	-12.38086319	-2.21510172	1.17348564
477	-4.57237959	-5.38269424	-13.26484299	-2.65709138	-0.15248336
478	-2.87808609	-3.83573031	-12.52819347	-3.09908104	-0.00515347
479	-4.13039017	-5.3090291	-10.76023483	-2.95175099	-1.62578213
480	-7.51897764	-8.55028629	-11.34955406	-3.83573031	-2.28876662
481	-7.96096706	-13.70683289	-12.60185814	-4.27771997	-5.45635891
482	-7.00332308	-15.76945114	-16.21144104	-6.34033823	-6.78232813
483	-6.78232813	-11.64421368	-18.71604919	-6.19300842	-6.04567862
484	-10.09724998	-5.60368919	-19.45269775	-5.60368919	-3.24641085
485	-11.93887424	-7.66630745	-18.64238358	-5.82468367	-3.24641085
486	-12.38086319	-15.76945114	-18.34772301	-7.96096706	-4.20405531
487	-11.49688435	-18.42138863	-15.10646629	-4.94070435	-3.24641085
488	-10.02358532	-14.88547134	-12.23353386	-1.92044199	-1.3311224
489	-5.60368919	-15.03280163	-9.50793076	-2.73075628	-2.58342648
490	-7.37164736	-17.8320694	-9.36060143	-5.89834881	-2.95175099
491	-14.36981678	-16.0641098	-7.81363726	-4.57237959	-2.28876662
492	-17.61107445	-11.12855911	-7.4453125	-3.24641085	-0.07881841
493	-9.87625599	-8.25562668	-5.1616993	-1.11012757	2.4994545
494	-1.55211723	-7.66630745	-2.06777191	1.91013503	6.62469101
495	3.53076363	-5.3090291	3.45709872	6.40369654	10.16060829
496	6.10903645	2.4994545	6.77202129	8.09799004	13.69652557
497	13.47553062	12.95987606	10.45526791	12.95987606	17.15877724

	AJ	AK	AL	AM	AN
448	1.21706545	9.19338894	6.23919535	2.76801729	-8.90104866
449	0.70008153	5.94377565	5.86992073	3.21114635	-4.39590311
450	4.39282417	3.94969487	4.09740448	2.62030768	2.9157269
451	12.07372856	11.18747044	4.39282417	2.9157269	7.93785667
452	12.07372856	19.8284874	12.66456699	2.76801729	4.46667862
453	0.77393639	18.86837387	20.49318123	4.68824339	-0.48159602
454	-8.31021023	5.20522738	12.95998669	5.86992073	-2.77109623
455	-3.87891912	0.70008153	-1.36785424	6.31305027	-2.84495115
456	6.31305027	12.07372856	1.58633971	3.21114635	-7.42395163
457	13.18155098	22.04413223	17.68669701	1.66019464	-12.51993656
458	12.3691473	17.39127731	23.74279404	1.88175917	-12.74150085
459	7.1993084	8.8979702	12.14758301	3.94969487	-6.98082256
460	0.55237186	4.09740448	0.77393639	3.65427542	-1.14628971
461	2.9157269	6.60846949	-0.62930572	1.73404944	4.54053354
462	9.41495323	11.99987316	4.24511433	-3.28808022	9.34109879
463	9.41495323	16.65272903	8.8241148	-8.60562897	9.85808277
464	-2.10640264	10.15350246	9.19338894	-12.00295258	5.2790823
465	-10.52585506	-1.8109833	0.3308073	-10.45200062	6.83003378
466	-9.04875851	-4.76517725	-11.11669445	-7.27624226	11.63059902
467	-2.32796717	4.61438847	-10.67356491	-2.32796717	13.92009926
468	-4.54361248	6.46075964	-2.992661	-1.22014451	9.71037292
469	-6.5376935	-3.14037061	-3.36193514	-0.62930572	4.1712594
470	-1.8109833	-12.07680702	-13.62775898	0.99550092	-2.10640264
471	2.69416237	-10.23043633	-15.10485649	7.27316332	-3.73120928
472	-7.49780655	-7.79322624	-3.73120928	9.26724434	-1.22014451
473	-18.50217819	-5.35601616	3.94969487	7.49472761	2.25103331
474	-10.59971046	-0.92472512	-0.40774119	5.13137245	1.43862998
475	4.31896925	6.97774363	-2.10640264	7.93785667	1.58633971
476	2.25103331	7.64243746	4.68824339	9.11953449	-0.48159602
477	-10.89513016	5.13137245	6.53461456	8.08556652	-1.95869303
478	-17.24664688	0.3308073	-0.18617664	5.57450151	-0.62930572
479	-8.67948437	-7.57166147	-5.06059647	1.51248491	4.83595324
480	6.46075964	-10.52585506	2.17717862	-3.36193514	6.23919535
481	16.20960045	2.76801729	16.72658348	-3.36193514	4.98366261
482	12.81227684	15.91418076	23.44737434	-0.03846694	5.79606628
483	5.13137245	10.22735691	11.33517933	2.32488823	9.11953449
484	2.98958182	-3.73120928	-9.41803265	0.10924275	9.26724434
485	8.97182465	-2.03254795	-22.0472126	-3.14037061	6.23919535
486	14.14166355	10.30121231	-18.3544693	-6.68540335	0.10924275
487	13.99395466	17.9821167	-3.43579006	-8.01479053	-1.8109833
488	9.41495323	13.69853497	10.30121231	-8.38406467	2.17717862
489	7.49472761	8.8241148	12.3691473	-5.79914522	8.97182465
490	5.13137245	11.03976059	7.56858253	-3.95277381	7.1993084
491	4.09740448	23.44737434	9.26724434	1.06935585	3.43271089
492	5.42679167	34.96873093	16.94814873	6.53461456	2.69416237
493	7.05159855	29.35576248	20.86245537	13.10769653	5.57450151
494	-2.69724154	7.27316332	20.86245537	15.17563152	10.8181963
495	-16.43424416	0.40466216	21.3794384	16.35730934	21.45329475
496	-13.77546883	18.57295418	20.34547043	19.31150436	29.94660187
497	7.79014683	33.34392548	20.12390709	27.14011765	32.08839417

	AO	AP	AQ	AR	AS
448	0.84779125	7.36683702	9.24376297	-9.21327114	-6.53677797
449	-0.03846694	10.3134346	9.09605312	-9.09049606	-5.03892422
450	-1.07243478	11.05008411	7.17582703	-9.40971088	-5.99656868
451	-0.77701545	10.01877499	5.4033103	-9.99903107	-6.19300842
452	1.66019464	8.69280624	4.81247187	-10.71112537	-6.63499832
453	0.55237186	8.25081635	4.44319725	-7.64175224	-6.880548
454	0.40466216	8.98746586	5.55102015	-5.01436949	-6.09478855
455	-1.22014451	9.57678509	7.02811718	-5.84923887	-5.23536444
456	-2.40182209	8.69280624	6.88040733	-8.79583645	-5.80012894
457	-5.35601616	7.07217741	4.66476202	-9.18871593	-6.51222324
458	-4.54361248	7.51416731	2.59682631	-7.69086218	-5.35813904
459	-5.7252903	9.65045071	4.3693428	-4.67059946	-4.15494537
460	-10.37814617	11.78673363	6.73269796	-4.30227518	-5.08803415
461	-15.10485649	11.1974144	5.32945538	-7.71541691	-5.57913399
462	-11.2644043	11.12374878	2.89224553	-12.62641335	-5.67735386
463	-4.9128871	10.68175983	0.75045496	-11.20222378	-5.77557421
464	-0.85087025	11.1974144	1.9321326	-6.02112389	-6.21756315
465	-2.84495115	11.49207401	4.66476202	-4.25316477	-5.43180418
466	-6.98082256	9.57678509	5.18174601	-8.84494591	-5.87379408
467	-10.45200062	9.87144566	6.58498812	-10.34280014	-5.99656868
468	-9.86116219	11.27107906	7.02811718	-8.25562668	-5.84923887
469	-7.35009718	13.99668217	5.55102015	-5.62824392	-5.53002405
470	-3.58349967	13.33369732	0.89816469	-6.14389849	-5.80012894
471	0.92164612	10.82908916	0.38118073	-4.69515467	-4.35138512
472	3.65427542	8.91380119	5.99414921	-3.07452607	-3.95850515
473	1.06935585	8.61914158	10.49929523	-4.05672503	-5.43180418
474	-0.77701545	9.50312042	9.8346014	-8.23107147	-6.48766804
475	-0.55545086	9.94511032	6.28956842	-8.72217178	-5.06347942
476	0.3308073	9.35579109	5.4033103	-4.69515514	-4.47415972
477	-3.43579006	9.28212547	7.61895609	-0.47169796	-5.35813904
478	-5.65143538	7.95615673	7.61895609	-1.35567737	-5.21080923
479	-6.16841936	7.66149712	5.84643936	-5.35813904	-5.11258936
480	1.06935585	6.99851274	3.26151991	-8.50117683	-5.82468367
481	9.78422832	7.36683702	1.11972928	-8.15740681	-7.4453125
482	15.02792263	9.72411537	3.48308444	-6.11934376	-9.77803612
483	12.59071255	10.82908916	9.98231125	-4.96525955	-10.31824493
484	9.34109879	14.80699635	21.79908752	-7.64175224	-9.43426609
485	8.23327637	20.92118645	30.36624908	-11.52143955	-9.23782635
486	9.56266308	23.27846527	27.78133011	-13.87871742	-10.1709156
487	9.19338894	18.41657829	16.62924767	-11.9634285	-7.76452732
488	6.60846949	12.08139324	7.91437531	-9.53248596	-5.1616993
489	0.40466216	11.1974144	12.34566593	-8.94316673	-4.94070435
490	-4.6174674	13.70202255	22.31607056	-12.03709412	-6.07023382
491	-7.12853241	16.57495499	22.389925	-13.8050518	-4.89159441
492	-5.35601616	19.74254799	10.1300211	-12.4299736	-3.59018064
493	-3.43579006	24.01511383	-0.20965806	-7.37164783	-1.25745749
494	0.55237186	27.10904121	0.0119065	-2.38698673	2.15568471
495	4.68824339	26.81438255	5.69872999	3.53076386	6.67380142
496	6.9038887	28.58234024	11.68097305	9.84139347	9.52217865
497	4.54053354	35.21218491	22.09450722	16.61856842	13.52464008

	AT	AU
448	5.54988337	-1.76174664
449	4.1712594	-0.40774122
450	4.14664125	1.48786664
451	9.21800804	3.35885596
452	14.85559464	2.96496344
453	13.37849712	1.58633971
454	3.28500128	1.16782892
455	-1.51556396	0.74931818
456	6.65770626	-2.20487571
457	17.63746071	-5.40525246
458	17.8344059	-5.13445139
459	9.41495419	-2.91880608
460	1.80790424	-2.62338686
461	2.96496344	-2.94342446
462	8.55331326	-1.73712862
463	11.63059902	-1.22014439
464	5.74682951	-2.52491355
465	-4.00201035	-2.15563941
466	-8.31021023	-0.87548858
467	-2.79571462	0.38004383
468	-0.35850462	-0.45697793
469	-4.34666634	-1.26938117
470	-9.1718502	-1.5648005
471	-7.54704332	1.48786676
472	-6.34074736	3.90045834
473	-6.63616657	3.60503888
474	-3.9773922	1.9309957
475	3.06343675	2.98958182
476	4.86057138	2.98958182
477	0.25695229	0.89702779
478	-5.70067215	-0.23541319
479	-7.10391426	0.06000626
480	-0.6293056	1.31553864
481	11.90140057	3.80198526
482	17.39127731	6.92850733
483	8.89796925	8.01171207
484	-3.38655329	6.23919535
485	-5.03597879	3.77736712
486	2.02946877	0.9955008
487	9.51342678	-0.21079497
488	11.13823318	0.13386114
489	9.56266308	1.19244719
490	7.91323853	-0.45697761
491	12.27067471	-0.87548858
492	19.11455727	1.29092026
493	19.08993912	5.08213615
494	8.47945881	8.84873295
495	1.7832855	14.16628265
496	8.38098526	18.72066498
497	20.41932678	21.25634766

	A	B	C	D	E	F	G	H	I	J	K
498								-.000080	20.92	-13.78	6.11
499								-.000070	23.42	7.79	13.48
500								-.000060	26.07	23.00	23.27
501								-.000050	37.56	21.31	36.39
502								-.000040	51.78	17.39	47.95
503								-.000030	62.17	23.23	56.57
504								-.000020	69.98	30.54	66.81
505								-.000010	84.56	39.40	87.80
506								.000000	106.51	45.01	111.08
507								.000010	130.82	42.28	124.93
508								.000020	149.76	35.49	129.87
509								.000030	165.08	37.92	141.28
510								.000040	175.39	43.68	158.96
511								.000050	185.48	46.93	169.57
512								.000060	195.94	52.18	173.70
513								.000070	208.17	66.36	194.18
514								.000080	225.11	77.80	230.93
515								.000090	255.17	77.80	263.27
516								.000100	288.39	76.70	276.31
517								.000110	306.59	93.61	286.40
518								.000120	315.28	116.95	303.35
519								.000130	337.82	122.49	321.47
520								.000140	368.32	113.11	331.56
521								.000150	385.26	117.39	350.42
522								.000160	385.85	132.16	380.92
523								.000170	393.81	136.74	409.42
524								.000180	422.68	134.60	425.12
525								.000190	459.37	136.59	441.54
526								.000200	477.79	135.26	460.40
527								.000210	481.84	132.46	478.15
528								.000220	493.62	143.83	495.02
529								.000230	518.01	170.12	516.39
530								.000240	537.68	181.64	533.92
531								.000250	549.24	175.00	544.16
532								.000260	560.59	169.53	555.13
533								.000270	577.53	174.11	571.19
534								.000280	590.35	172.56	582.91
535								.000290	598.82	163.33	591.08
536								.000300	604.27	160.15	598.15
537								.000310	614.51	174.11	597.86
538								.000320	634.77	184.60	590.64
539								.000330	650.01	175.15	591.52
540								.000340	631.38	158.82	598.23
541								.000350	589.02	159.78	601.54
542								.000360	570.01	178.69	599.77
543								.000370	598.89	199.81	607.14
544								.000380	640.44	210.82	617.75
545								.000390	648.91	211.85	616.72
546								.000400	619.66	207.79	603.16

	L	M	N	O	P	Q	R	S	T
498	18.57	2.50	20.35	6.77	19.31	8.10	29.95	13.70	6.90
499	33.34	12.96	20.12	10.46	27.14	12.96	32.09	17.16	4.54
500	18.57	22.83	30.02	16.57	31.42	22.09	29.06	24.45	6.61
501	3.36	29.83	41.91	27.40	30.61	34.99	28.25	32.41	13.92
502	18.65	39.63	37.78	38.74	28.91	46.85	32.01	44.05	23.89
503	46.19	56.05	23.67	51.27	34.53	61.87	40.21	57.31	27.73
504	51.66	76.97	26.99	65.92	39.70	78.96	43.91	76.90	30.83
505	40.06	93.11	48.56	85.30	37.04	96.79	43.39	97.90	34.01
506	35.12	102.83	65.99	102.98	33.64	108.80	43.76	114.18	36.37
507	39.84	114.03	67.54	111.01	41.91	115.80	48.41	118.74	34.75
508	40.29	131.41	61.41	112.11	55.28	124.49	50.18	121.69	39.18
509	35.56	147.18	54.17	119.92	64.58	139.00	53.73	129.94	51.22
510	34.75	155.28	51.22	132.15	67.46	149.90	59.49	142.54	63.18
511	47.38	162.35	54.02	143.94	69.53	158.67	60.67	154.18	67.83
512	64.36	177.90	60.67	159.04	71.97	177.38	56.83	171.78	70.79
513	75.59	205.23	77.58	190.20	77.95	212.15	66.14	200.58	79.65
514	78.99	234.69	100.99	226.96	85.49	247.21	85.85	238.82	95.75
515	83.71	255.17	113.40	256.64	91.62	272.85	103.28	271.97	106.09
516	92.06	271.08	110.82	278.37	94.35	290.82	110.89	295.54	108.23
517	100.85	288.47	102.92	302.46	101.59	308.21	118.57	314.40	109.27
518	98.26	304.08	99.37	325.67	111.33	326.55	127.44	336.79	119.75
519	88.00	316.02	100.92	347.55	119.90	350.35	133.34	356.46	131.13
520	81.94	334.21	100.48	368.76	124.78	376.35	132.90	373.33	139.69
521	94.50	365.23	102.03	390.42	132.31	402.57	130.83	391.89	143.39
522	120.12	395.72	114.51	408.84	140.66	430.57	127.73	422.17	140.43
523	142.35	405.96	137.70	432.04	149.44	461.43	130.54	457.68	128.03
524	146.49	407.29	159.41	462.68	160.00	490.16	141.17	491.49	127.88
525	140.06	427.84	161.85	500.92	175.96	526.85	159.49	519.33	153.28
526	137.33	462.91	150.55	543.35	192.06	572.22	181.50	552.85	188.22
527	150.33	477.20	148.34	582.61	202.77	603.97	205.43	591.45	199.37
528	166.13	475.35	162.66	605.82	207.94	608.17	224.78	623.35	190.80
529	168.13	492.15	178.47	624.16	214.44	612.52	236.44	643.09	187.55
530	155.80	529.87	187.85	658.19	218.42	645.74	237.18	666.81	199.52
531	149.15	555.72	183.27	704.89	216.06	703.42	226.33	700.70	210.08
532	153.80	562.21	165.91	740.70	210.74	756.75	208.01	751.82	211.19
533	156.68	565.45	151.07	765.15	210.00	781.58	197.89	802.80	203.87
534	149.44	574.43	150.63	789.68	207.35	777.31	201.73	827.77	201.66
535	144.57	586.96	160.30	799.19	205.13	771.41	218.65	821.29	212.66
536	152.40	587.03	169.16	782.32	213.33	780.11	237.33	811.93	234.67
537	170.86	570.75	176.40	783.86	238.07	805.45	256.75	820.03	256.61
538	182.24	559.85	186.96	821.95	261.56	830.79	271.90	841.62	275.07
539	176.55	563.97	194.42	854.58	274.33	844.78	277.43	861.21	282.97
540	162.44	574.43	191.69	846.70	279.80	844.27	268.05	874.32	281.13
541	163.55	587.55	187.41	831.01	284.45	845.08	252.47	880.73	276.77
542	171.90	600.81	188.37	845.30	282.01	858.12	240.43	888.54	272.19
543	174.92	605.59	188.14	883.46	276.33	879.48	244.20	898.63	266.13
544	174.78	609.35	183.20	907.47	277.51	886.77	260.15	907.25	272.78
545	176.25	614.66	178.91	906.81	287.70	884.12	275.14	905.78	288.59
546	176.33	611.56	183.86	899.00	291.39	884.12	271.90	902.83	291.69

	U	V	W	X	Y	Z	AA	AB	AC	AD
498	-.000080	28.58	11.68	9.84	8.38	9.52	18.72		0.00493	26.07223511
499	-.000070	35.21	22.09	16.62	20.42	13.52	21.26		0.00494	37.56396484
500	-.000060	42.65	37.68	24.06	23.87	21.04	22.36		0.00495	51.78129959
501	-.000050	47.96	46.76	34.59	22.19	31.60	24.26		0.00496	62.16805649
502	-.000040	53.04	43.81	46.45	24.60	43.21	28.27		0.00497	69.97653961
503	-.000030	62.84	43.44	58.26	31.03	56.82	34.16		0.00498	84.56220245
504	-.000020	78.23	56.22	71.25	36.40	73.93	38.14		0.00499	106.5143509
505	-.000010	99.01	69.14	88.49	42.67	93.33	38.14		0.005	130.8237763
506	.000000	130.39	74.53	106.81	48.71	108.65	37.92		0.00501	149.7556763
507	.000010	166.78	75.34	123.26	49.89	115.18	41.69		0.00502	165.0779724
508	.000020	194.84	77.49	137.01	45.73	119.43	48.21		0.00503	175.3910675
509	.000030	203.76	74.09	151.18	42.55	129.62	56.51		0.00504	185.4831696
510	.000040	203.46	66.85	163.21	43.22	141.53	63.38		0.00505	195.9435883
511	.000050	205.30	70.03	172.47	49.44	152.26	66.01		0.00506	208.1719666
512	.000060	208.18	90.48	182.51	59.07	169.40	66.53		0.00507	225.1148987
513	.000070	215.10	118.25	202.52	73.18	200.98	74.58		0.00508	255.1701965
514	.000080	246.04	131.55	230.25	85.93	237.66	89.03		0.00509	288.3930969
515	.000090	311.53	130.37	257.87	91.64	267.15	100.33		0.0051	306.5883179
516	.000100	388.21	132.58	278.60	93.19	288.25	104.49		0.00511	315.2807922
517	.000110	446.12	139.97	293.82	99.12	308.36	109.81		0.00512	337.8222656
518	.000120	488.10	147.65	307.57	104.86	329.67	119.51		0.00513	368.3195496
519	.000130	527.37	152.82	325.10	103.80	351.45	128.12		0.00514	385.2624817
520	.000140	563.76	161.31	344.70	98.51	372.81	132.46		0.00515	385.8518066
521	.000150	593.15	180.14	366.97	104.64	394.96	135.51		0.00516	393.8076172
522	.000160	618.86	212.94	387.50	122.27	420.52	136.27		0.00517	422.6842651
523	.000170	663.21	256.21	403.06	138.93	450.38	136.00		0.00518	459.3694153
524	.000180	746.82	293.44	418.36	146.83	481.44	143.02		0.00519	477.7856445
525	.000190	837.72	296.83	442.92	146.17	515.70	162.91		0.0052	481.8372192
526	.000200	889.58	265.74	467.03	141.05	556.14	187.26		0.00521	493.6236267
527	.000210	918.16	236.27	479.06	143.71	592.68	202.52		0.00522	518.0067139
528	.000220	981.44	250.01	488.00	157.54	612.45	207.84		0.00523	537.6752319
529	.000230	1071.97	290.56	508.85	172.24	626.59	212.81		0.00524	549.2406616
530	.000240	1137.83	319.06	533.82	175.10	656.91	218.37		0.00525	560.585022
531	.000250	1172.23	335.53	549.71	169.14	703.00	217.49		0.00526	577.5279541
532	.000260	1220.63	365.08	559.31	163.08	749.76	209.98		0.00527	590.3457031
533	.000270	1304.83	392.70	571.39	160.62	783.18	203.92		0.00528	598.8171387
534	.000280	1403.69	386.35	582.56	157.54	798.25	203.58		0.00529	604.2683716
535	.000290	1481.11	351.19	592.29	156.07	797.30	212.15		0.0053	614.5078125
536	.000300	1514.70	309.98	596.48	160.57	791.45	228.44		0.00531	634.765625
537	.000310	1515.07	277.56	594.37	173.79	803.11	250.48		0.00532	650.0142822
538	.000320	1513.52	276.01	595.08	184.60	831.45	269.51		0.00533	631.3770752
539	.000330	1513.15	311.83	601.84	182.04	853.53	278.25		0.00534	589.0197144
540	.000340	1505.64	359.69	601.35	170.98	855.10	276.33		0.00535	570.0141602
541	.000350	1486.19	385.46	592.70	170.25	852.27	271.23		0.00536	598.8908081
542	.000360	1454.29	380.88	590.20	179.65	863.99	264.88		0.00537	640.4378662
543	.000370	1424.31	358.28	603.88	187.63	887.19	262.22		0.00538	648.9093018
544	.000380	1418.57	327.71	622.51	189.60	900.50	270.15		0.00539	619.6643066
545	.000390	1424.09	308.36	626.76	189.01	898.90	283.81		0.0054	594.5445557
546	.000400	1400.37	320.39	611.46	189.33	895.32	284.99		0.00541	597.9331665

	AE	AF	AG	AH	AI
498	23.27296829	22.83097839	16.56945801	22.09432793	24.45160675
499	36.38532639	29.82914734	27.3982048	34.98569489	32.40742111
500	47.95072174	39.6265831	38.74260712	46.8457489	44.04648209
501	56.56952286	56.05386734	51.26564407	61.87339783	57.30617142
502	66.8089447	76.97470856	65.9249649	78.96366119	76.90104675
503	87.80345917	93.10733032	85.29885101	96.79058075	97.89555359
504	111.0815811	102.8311005	102.9784317	108.797966	114.1755066
505	124.9305878	114.0281754	111.0079117	115.796135	118.7427292
506	129.8661346	131.4131012	112.1128845	124.4885941	121.6893311
507	141.2842102	147.1773987	119.9213715	139.0005951	129.9398041
508	158.9637909	155.2805481	132.1497498	149.9029999	142.5365143
509	169.5715332	162.3523712	143.936142	158.6691284	154.1755676
510	173.6967773	177.8956757	159.0374603	177.3800201	171.7814941
511	194.1756287	205.2253723	190.1977234	212.1498718	200.5844879
512	230.934433	234.6913452	226.9565277	247.214386	238.8165894
513	263.273346	255.1701965	256.6434937	272.8497925	271.9658203
514	276.3120422	271.0818176	278.3746643	290.8240356	295.5385742
515	286.4041443	288.4667664	302.4631043	308.2089539	314.3968201
516	303.3470764	304.0837097	325.6675415	326.5515442	336.7909546
517	321.4686585	316.0174561	347.546051	350.3453064	356.4595032
518	331.5607605	334.212677	368.7615356	376.3490295	373.3287659
519	350.4189758	365.2256165	390.4190369	402.573761	391.892334
520	380.9162598	395.7229004	408.8352661	430.5664368	422.1686096
521	409.4245911	405.9623413	432.0397339	461.4320374	457.6751099
522	425.1152344	407.2882996	462.6843262	490.161377	491.4873352
523	441.542511	427.8408203	500.9164429	526.8464966	519.3327026
524	460.4007263	462.9053345	543.3474731	572.2241211	552.8502197
525	478.1539917	477.1963196	582.6108398	603.9736939	591.4506836
526	495.0232544	475.3547058	605.8153076	608.1726074	623.3475952
527	516.3861084	492.1503296	624.157898	612.5188599	643.0897827
528	533.918335	529.8667603	658.1911011	645.7416992	666.8098755
529	544.1577759	555.7231445	704.8946533	703.4213867	700.6957398
530	555.1338501	562.2056885	740.6958008	756.7547607	751.8192139
531	571.1928101	565.4469605	765.1525879	781.579895	802.7953491
532	582.9055176	574.434082	789.6829834	777.307312	827.7677612
533	591.0823364	586.9570923	799.185791	771.4141235	821.2852783
534	598.1541748	587.0307617	782.3165283	780.1065674	811.9298096
535	597.8594971	570.7507935	783.8634644	805.4473267	820.032959
536	590.6403198	559.8483887	821.9482422	830.7880249	841.6168213
537	591.524292	563.9736328	854.5818481	844.7843628	861.2116699
538	598.2278442	574.434082	846.699707	844.2687378	874.3240356
539	601.5427246	587.5463867	831.0090332	845.0790405	880.7329102
540	599.7747803	600.8060913	845.3000488	858.1177368	888.5413818
541	607.1412964	605.5942993	883.4584961	879.4805908	898.6334839
542	617.7490234	609.3512573	907.4732666	886.7733765	907.2522583
543	616.7177124	614.6550903	906.8102417	884.12146	905.7789307
544	603.1633911	611.5611572	899.00177	884.12146	902.8323364
545	598.3015137	600.5114746	897.8231201	884.7108154	901.211731
546	602.795044	596.828186	889.8673096	875.2816773	897.6758423

	AJ	AK	AL	AM	AN
498	23.00424576	18.57295418	30.02045631	31.42369843	29.06034279
499	21.30558395	3.3588562	41.91108704	30.6112957	28.24794006
500	17.39127731	18.64681053	37.77521515	28.9126339	32.01453781
501	23.225811	46.19466782	23.66893959	34.52560043	40.21242523
502	30.53744125	51.65992737	26.99240685	39.6954422	43.90516663
503	39.4000206	40.06471634	48.55802536	37.03666687	43.38818359
504	45.01298904	35.11643982	65.98777008	33.63934326	43.75745773
505	42.28036118	39.84315109	67.53871918	41.91108704	48.41031265
506	35.48571396	40.28628159	61.4087677	55.27881622	50.18283081
507	37.92292404	35.55957031	54.1709938	64.58452606	53.72786331
508	43.68360519	34.74716568	51.21679688	67.46486664	59.48854065
509	46.93321609	47.37634659	54.0232811	69.53279877	60.67021942
510	52.1769104	64.36296082	60.67021942	71.97000885	56.82976532
511	66.35704041	75.58889771	77.58297729	77.95225525	66.13547516
512	77.80454254	78.98622131	100.9949646	85.48545074	85.85472107
513	77.80454254	83.71292877	113.4025803	91.61540222	103.2844696
514	76.69672394	92.05853271	110.8176575	94.34803009	110.8915176
515	93.60948181	100.8472595	102.9151917	101.5858078	118.5724182
516	116.9476166	98.26233673	99.37016296	111.3346481	127.4350052
517	122.4867249	87.99651337	100.9211121	119.9018097	133.3433838
518	113.1071625	81.94041443	100.4779816	124.7762299	132.9002533
519	117.3907394	94.4957428	102.0289307	132.3094177	130.8323212
520	132.1617127	120.1233749	114.5104065	140.655014	127.730423
521	136.7407074	142.3536835	137.7008209	149.4437408	130.536911
522	134.5989227	146.4895477	159.4141541	160.0049896	141.1719971
523	136.5930023	140.0641785	161.8513641	175.9576416	159.4880066
524	135.2636108	137.3315582	150.5515747	192.0579987	181.4967499
525	132.4571381	150.3300018	148.3359222	202.7669525	205.4257202
526	143.83078	166.1349487	162.6637573	207.9367828	224.7756958
527	170.1231079	168.1290283	178.4687042	214.4360199	236.4447632
528	181.644455	155.7952576	187.8482666	218.4241791	237.1833038
529	174.9975281	149.1483307	183.2692719	216.0608215	226.3266449
530	169.5322723	153.801178	165.9133759	210.7432709	208.0106354
531	174.1112671	156.6815186	151.0685577	210.0047302	197.8925324
532	172.560318	149.4437408	150.6254273	207.3459473	201.7329865
533	163.3284607	144.5693207	160.300415	205.1303101	218.6457367
534	160.1526947	152.397934	169.1629944	213.328186	237.3310242
535	174.1112671	170.8616486	176.4007721	238.0695648	256.7548523
536	184.5986481	182.2353058	186.9620056	261.5554199	271.8950806
537	175.1452332	176.5484772	194.4213562	274.3323059	277.4342041
538	158.8233185	162.4421997	191.6887207	279.7975464	268.0546265
539	159.783432	163.5500183	187.4051361	284.4504089	252.4712677
540	178.6902618	171.8956146	188.3652496	282.0132141	240.4329224
541	199.8127594	174.9236755	188.143692	276.3263855	244.1995239
542	210.8171234	174.7759552	183.1954193	277.5080566	260.1521606
543	211.8510895	176.2530518	178.9118347	287.7000122	275.1447144
544	207.7890778	176.3269043	183.8601074	291.3927612	271.8950806
545	209.7093048	184.6725159	197.0062714	279.3544312	255.5731659
546	214.6575775	200.5513001	207.4936523	258.896637	239.5466614

	AO	AP	AQ	AR	AS
498	6.60846949	42.65234375	37.67787933	24.05872726	21.03846359
499	13.92009926	47.95621872	46.76202393	34.59281158	31.59710693
500	23.89050484	53.03910065	43.80783081	46.45286942	43.2116127
501	27.73095703	62.83653641	43.43855667	58.26381683	56.81507111
502	30.83285904	78.23251343	56.21544647	71.25339508	73.92989349
503	34.0086174	99.00602722	69.14004517	88.49099731	93.32833099
504	36.37197495	130.3872833	74.53144836	106.8090134	108.6506348
505	34.74716568	166.777771	75.34384918	123.260849	115.1822586
506	39.17845917	194.8441162	77.48564148	137.0116425	119.4302673
507	51.21679688	203.7575684	74.08831787	151.1798554	129.6205902
508	63.18128204	203.4629059	66.85054779	163.2118073	141.5297546
509	67.83413696	205.3045349	70.02630615	172.4690247	152.2602844
510	70.78833008	208.1774597	90.48409271	182.5120087	169.3996582
511	79.65091705	215.1019745	118.2535172	202.5243225	200.977356
512	95.75127411	246.0412445	131.5473938	230.2468872	237.6625061
513	106.09095	311.5293884	130.3657074	257.8712463	267.1530457
514	108.2327423	388.2145691	132.5813599	278.5956421	288.2457581
515	109.2667084	446.1152344	139.9668427	293.8197327	308.3562927
516	119.754097	488.1042481	147.6477509	307.5705261	329.6700134
517	131.1277466	527.3676758	152.8175812	325.1027832	351.4502869
518	139.6949005	563.7581177	161.3108978	344.6976624	372.8131104
519	143.3876495	593.1504517	180.1438751	366.9690247	394.9617004
520	140.4334564	618.8594971	212.9354401	387.4969788	420.5234375
521	128.0258484	663.2058106	256.214386	403.0648499	450.3822937
522	127.8781281	746.8154907	293.4372253	418.3626099	481.4443359
523	153.284195	837.7180786	296.8345337	442.917572	515.6985474
524	188.2175446	889.578186	265.7416382	467.0305786	556.140625
525	199.3696289	918.1601563	236.2735748	479.0625	592.6784058
526	190.8024597	981.4383545	250.0105743	488.0005188	612.4451904
527	187.5528565	1071.972534	290.5568848	508.8477173	626.5888672
528	199.517334	1137.828979	319.0648499	533.8201294	656.9142456
529	210.0785828	1172.230591	335.5344849	549.7072144	703.0039063
530	211.1864014	1220.628418	365.076416	559.3081665	749.7565918
531	203.8747711	1304.827393	392.6981506	571.3892212	783.1759644
532	201.6591187	1403.685791	386.3466187	582.5617676	798.2526856
533	212.6634979	1481.107666	351.1917114	592.2855225	797.295044
534	234.6722412	1514.698853	309.9807129	596.484436	791.4509888
535	256.6071472	1515.067139	277.5584412	594.3726807	803.114563
536	275.0708313	1513.520264	276.0074768	595.0847778	831.4510498
537	282.9733276	1513.151855	311.8270874	601.8374023	853.5259399
538	281.1269531	1505.638062	359.6850281	601.3463135	855.0974731
539	276.7695007	1486.190552	385.4603577	592.7029419	852.2736816
540	272.1904907	1454.293579	380.8813477	590.1983643	863.9863892
541	266.1343994	1424.312012	358.2817688	603.8754883	887.1908569
542	272.7813416	1418.566162	327.7058716	622.5126953	900.4996338
543	288.5862732	1424.090942	308.355896	626.7606812	898.9035645
544	291.6881714	1400.37085	320.3942261	611.4629517	895.3185425
545	270.787262	1344.31189	344.2493591	597.7858276	894.5819092
546	249.2216492	1307.700317	342.5506897	599.1854858	887.6082764

	AT	AU
498	23.86588478	22.36417007
499	22.19184303	24.25977898
500	24.60443497	28.27255821
501	31.02980614	34.15632629
502	36.39659119	38.14448929
503	42.67425537	38.14448929
504	48.70573425	37.92292404
505	49.88740921	41.68952179
506	45.72692108	48.21336746
507	42.55116272	56.50972748
508	43.21585464	63.37823105
509	49.44428253	66.01238251
510	59.07003021	66.52936554
511	73.17630768	74.5795517
512	85.92857361	89.03047943
513	91.64001465	100.3302765
514	93.19097137	104.4907608
515	99.12397766	109.8083115
516	104.8600388	119.5079193
517	103.8014526	128.1243134
518	98.50852203	132.4571228
519	104.6384735	135.5097961
520	122.2651672	136.2729645
521	138.9317322	136.0021668
522	146.8342133	143.0183716
523	146.1695099	162.9099426
524	141.0489197	187.257431
525	143.7076874	202.5207672
526	157.5431671	207.8383179
527	172.2402802	212.8112183
528	175.095993	218.374939
529	169.138382	217.488678
530	163.0822754	209.9801025
531	160.6204529	203.9240112
532	157.5431671	203.5793457
533	156.0660706	212.1465149
534	160.5712128	228.4438171
535	173.7912293	250.4771881
536	184.5986481	269.5071106
537	182.0383606	278.2466126
538	170.9847412	276.3263855
539	170.2462006	271.2304077
540	179.6503754	264.8788757
541	187.626709	262.2200928
542	189.5961609	270.1471863
543	189.0053253	283.8103333
544	189.3253632	284.9920044
545	197.129364	268.5716248
546	207.5675049	249.2216492

	A	B	C	D	E	F	G	H	I	J	K
547								.000410	594.54	209.71	598.30
548								.000420	597.93	214.66	602.80
549								.000430	613.99	206.68	607.58
550								.000440	614.80	180.61	607.29
551								.000450	606.11	164.66	610.53
552								.000460	602.28	173.23	618.12
553								.000470	604.93	193.98	620.40
554								.000480	601.98	207.20	608.91
555								.000490	590.71	212.22	590.64
556								.000500	570.60	212.29	577.16
557								.000510	553.88	211.04	571.19
558								.000520	547.18	200.18	563.97
559								.000530	549.61	185.41	550.12
560								.000540	546.66	176.18	530.60
561								.000550	533.62	182.38	512.11
562								.000560	513.00	196.71	501.36
563								.000570	492.37	204.10	501.51
564								.000580	472.41	194.94	497.53
565								.000590	460.62	179.28	478.96
566								.000600	467.03	170.12	450.53
567								.000610	477.64	173.00	434.84
568								.000620	467.91	176.33	435.58
569								.000630	449.35	177.07	436.98
570								.000640	438.89	180.17	421.65
571								.000650	432.48	191.39	400.00
572								.000660	420.18	191.91	387.47
573								.000670	408.69	169.31	387.47
574								.000680	397.49	152.25	388.80
575								.000690	387.10	178.03	379.22
576								.000700	375.69	223.52	361.84
577								.000710	367.44	243.98	349.17
578								.000720	360.29	232.75	337.67
579								.000730	352.56	217.61	322.79
580								.000740	347.40	208.53	310.27
581								.000750	348.28	204.91	308.06
582								.000760	335.98	204.39	311.23
583								.000770	312.33	211.04	315.28
584								.000780	290.68	214.14	320.29
585								.000790	277.93	208.53	316.53
586								.000800	267.69	193.90	288.47
587								.000810	257.16	172.93	251.34
588								.000820	246.33	155.57	229.02
589								.000830	243.31	163.70	227.03
590								.000840	243.75	192.43	232.26
591								.000850	234.54	211.19	236.68
592								.000860	215.69	192.35	229.53
593								.000870	209.72	154.02	215.02
594								.000880	211.19	135.56	205.23
595								.000890	203.31	149.59	206.40
596								.000900	191.82	161.11	210.53

	L	M	N	O	P	Q	R	S	T
547	184.67	600.51	197.01	897.82	279.35	884.71	255.57	901.21	270.79
548	200.55	596.83	207.49	889.87	258.90	875.28	239.55	897.68	249.22
549	211.48	600.22	208.82	869.54	247.67	865.41	229.43	881.17	239.25
550	208.60	601.98	199.89	850.82	245.38	858.93	216.80	857.16	234.08
551	205.06	603.31	184.89	845.37	239.10	852.15	201.29	838.45	220.34
552	204.39	610.97	183.42	836.39	221.75	836.09	193.17	832.48	204.39
553	197.38	622.46	198.11	806.77	203.06	814.21	197.67	821.73	193.39
554	182.53	631.23	205.57	760.59	188.22	789.09	202.18	792.78	189.18
555	172.63	622.68	193.24	732.52	175.51	756.68	194.57	755.28	180.32
556	166.28	594.99	181.79	731.05	163.18	715.87	174.04	727.44	164.21
557	153.43	567.58	180.83	723.38	159.93	685.67	162.00	703.94	148.78
558	147.01	559.70	178.54	682.50	164.66	669.39	169.98	678.30	144.94
559	164.88	562.35	169.16	630.79	173.52	653.77	184.67	647.07	147.52
560	189.62	559.26	167.10	587.33	183.71	617.97	187.85	613.99	153.88
561	196.64	539.66	182.97	555.94	196.71	571.93	189.84	580.77	165.77
562	184.89	508.58	202.18	530.97	205.72	537.16	198.85	554.69	177.80
563	182.38	479.70	210.96	514.03	210.37	517.12	207.35	530.09	179.06
564	196.93	455.17	214.58	495.61	210.82	493.70	203.65	493.55	176.92
565	207.94	433.14	221.82	471.60	213.40	467.03	196.64	446.04	179.72
566	196.05	426.22	227.73	450.01	215.91	438.45	195.68	420.99	188.44
567	178.99	441.17	222.49	443.24	215.62	408.47	206.31	427.77	195.31
568	175.74	455.83	213.11	441.10	209.27	379.96	222.41	427.25	197.97
569	189.40	445.23	216.21	436.68	213.03	364.86	233.34	380.84	195.23
570	205.20	416.86	225.81	424.01	227.36	354.54	225.22	318.96	191.76
571	210.82	394.10	222.78	399.85	235.71	337.67	209.12	281.39	186.37
572	202.18	391.74	208.75	360.44	228.17	310.05	205.28	269.17	192.21
573	193.54	398.01	194.94	320.07	215.47	283.60	217.24	253.25	212.89
574	193.76	402.50	196.12	306.66	207.20	261.87	225.29	233.00	232.38
575	203.36	402.35	213.85	321.32	204.61	241.91	221.08	222.76	232.60
576	212.52	393.59	233.64	327.36	204.54	221.06	216.65	231.60	232.46
577	214.44	373.33	233.56	302.46	214.66	204.12	224.70	241.69	249.81
578	204.98	356.53	214.88	265.04	236.59	193.59	234.23	241.91	271.97
579	192.43	342.98	192.57	245.30	250.92	195.21	231.50	234.18	272.34
580	189.55	321.17	180.46	231.82	238.66	201.03	217.69	224.60	250.48
581	197.15	292.74	185.85	204.64	215.47	197.42	209.64	210.23	220.05
582	203.36	277.27	201.29	166.04	201.81	177.90	205.94	195.50	200.55
583	206.98	277.86	205.87	137.38	203.58	167.07	206.90	185.48	202.32
584	206.16	275.80	199.15	128.98	206.09	175.98	215.62	188.72	219.61
585	195.68	258.56	197.82	139.00	202.47	188.06	224.92	206.40	225.07
586	177.07	244.93	203.65	152.70	191.54	187.62	216.43	225.70	204.83
587	167.76	245.45	202.32	163.09	180.91	189.09	198.04	225.34	174.55
588	171.01	245.37	193.54	165.00	168.28	197.71	183.12	210.31	159.78
589	171.45	236.02	184.67	162.87	157.79	202.06	174.85	199.48	157.27
590	161.33	227.25	180.32	161.54	149.96	194.91	165.32	200.44	155.65
591	161.26	227.84	182.16	170.53	139.40	190.86	150.48	197.86	138.07
592	174.11	237.34	192.87	184.30	121.75	195.35	123.08	191.23	108.60
593	180.61	243.24	205.72	189.09	114.66	199.18	93.46	187.25	86.67
594	169.31	234.10	209.86	178.93	127.95	183.13	77.21	186.07	86.81
595	152.10	217.16	200.99	162.72	145.60	155.28	81.35	173.99	94.50
596	143.24	211.04	185.56	144.97	132.16	130.16	77.58	147.10	89.84

	U	V	W	X	Y	Z	AA	AB	AC	AD
547	.000410	1344.31	344.25	597.79	197.13	894.58	268.57		0.00542	613.9921265
548	.000420	1307.70	342.55	599.19	207.57	887.61	249.22		0.00543	614.8024292
549	.000430	1297.61	302.00	607.26	209.00	872.04	238.78		0.00544	606.1099854
550	.000440	1262.03	259.09	608.03	196.37	855.64	232.09		0.00545	602.279419
551	.000450	1168.99	229.11	606.65	184.87	845.32	220.25		0.00546	604.9313355
552	.000460	1074.62	184.80	610.46	187.01	834.99	206.44		0.00547	601.9847412
553	.000470	1035.51	110.42	615.93	196.49	814.24	198.04		0.00548	590.7139893
554	.000480	1028.29	66.04	614.04	198.43	780.82	193.19		0.00549	570.6034546
555	.000490	999.19	106.73	601.35	192.70	748.16	183.47		0.0055	553.8815308
556	.000500	946.15	181.10	580.92	186.79	724.78	167.14		0.00551	547.1780396
557	.000510	908.14	188.05	564.22	181.77	704.33	156.90		0.00552	549.6089478
558	.000520	898.93	114.86	556.95	175.24	676.73	159.86		0.00553	546.6623535
559	.000530	894.96	53.63	554.03	173.15	643.88	168.57		0.00554	533.6236572
560	.000540	862.84	62.57	545.51	177.63	606.43	175.15		0.00555	512.9974976
561	.000550	799.78	84.43	528.47	187.33	569.55	184.11		0.00556	492.3713074
562	.000560	754.48	56.88	507.64	194.59	540.94	194.13		0.00557	472.4081116
563	.000570	751.38	22.98	491.19	199.15	520.41	198.93		0.00558	460.6217346
564	.000580	766.12	72.09	475.04	202.15	494.29	197.13		0.00559	467.0305786
565	.000590	777.31	166.78	457.58	203.01	461.55	196.59		0.0056	477.6383362
566	.000600	778.27	193.29	447.93	197.97	436.48	200.01		0.00561	467.9145508
567	.000610	754.18	151.93	451.22	191.49	426.49	205.75		0.00562	449.3509827
568	.000620	703.13	127.63	453.11	188.39	416.10	209.88		0.00563	438.890564
569	.000630	645.31	137.46	443.85	194.22	394.13	213.87		0.00564	432.48172
570	.000640	610.31	162.71	425.80	203.73	365.84	214.78		0.00565	420.179657
571	.000650	592.05	190.41	408.86	208.33	339.64	210.40		0.00566	408.6879273
572	.000660	580.19	203.85	399.80	200.95	313.22	208.55		0.00567	397.4908752
573	.000670	580.33	188.19	398.06	185.93	285.64	215.20		0.00568	387.104126
574	.000680	588.44	157.84	396.26	180.71	267.18	221.62		0.00569	375.6860352
575	.000690	584.16	137.31	389.56	198.41	262.00	219.43		0.0057	367.4355774
576	.000700	568.10	147.72	377.04	223.22	260.01	217.88		0.00571	360.2900696
577	.000710	556.02	207.54	363.31	230.66	249.42	229.72		0.00572	352.5552673
578	.000720	551.97	304.52	351.50	217.54	233.51	247.60		0.00573	347.3987122
579	.000730	539.67	370.02	339.44	200.87	224.89	251.59		0.00574	348.2826843
580	.000740	516.61	354.74	326.28	192.85	219.15	235.61		0.00575	335.9806519
581	.000750	498.34	263.38	316.36	195.97	204.10	215.05		0.00576	312.334198
582	.000760	503.28	167.59	308.16	203.01	179.81	202.77		0.00577	290.6766968
583	.000770	511.09	138.56	301.82	207.96	163.31	204.27		0.00578	277.9326782
584	.000780	493.11	159.98	295.59	206.48	164.56	213.77		0.00579	267.6932373
585	.000790	460.33	160.13	284.34	200.67	177.82	217.49		0.0058	257.1591492
586	.000800	438.01	112.20	267.03	191.54	188.68	204.27		0.00581	246.3304138
587	.000810	419.74	49.27	251.32	181.00	192.51	184.50		0.00582	243.3101502
588	.000820	394.77	26.38	240.24	173.37	191.01	170.39		0.00583	243.7521362
589	.000830	370.98	55.33	235.45	173.27	188.14	163.30		0.00584	234.5440216
590	.000840	363.76	77.34	234.42	178.03	185.63	156.98		0.00585	215.685791
591	.000850	362.21	49.20	233.02	184.87	186.42	142.65		0.00586	209.7189331
592	.000860	369.80	43.44	227.52	186.45	190.30	117.81		0.00587	211.1922302
593	.000870	395.43	124.46	222.66	180.12	191.84	98.26		0.00588	203.3100891
594	.000880	429.47	253.41	216.84	171.58	182.71	97.33		0.00589	191.8183594
595	.000890	458.71	358.80	208.96	167.56	164.00	107.15		0.0059	196.4592438
596	.000900	489.43	410.05	204.46	163.30	140.74	99.86		0.00591	204.6360474

	AE	AF	AG	AH	AI
547	607.583252	600.2167969	869.5358276	865.4105835	881.1748657
548	607.2886353	601.9847412	850.8248901	858.9280396	857.1600952
549	610.5298462	603.31073	845.3737183	852.1508789	838.4492188
550	618.1173706	610.9718628	836.3865967	836.091919	832.4823608
551	620.401001	622.4636231	806.7732544	814.2134399	821.7272339
552	608.9092407	631.2297363	760.5853882	789.093689	792.7769165
553	590.6403198	622.6845703	732.519043	756.6810913	755.2814941
554	577.159668	594.9865723	731.0457153	715.8707275	727.4361572
555	571.1928101	567.5831909	723.3845825	685.6680908	703.9370117
556	563.9736328	559.7010498	682.5005493	669.3881836	678.3016357
557	550.1246338	562.3530273	630.7877197	653.7711792	647.067688
558	530.6033936	559.2590942	587.3254395	617.9700317	613.9921265
559	512.1135254	539.6641846	555.9441528	571.9294434	580.7692261
560	501.358429	508.5776062	530.9717407	537.1596069	554.6918335
561	501.5057678	479.7009277	514.0288086	517.1227417	530.0877686
562	497.5278626	455.1705017	495.6125794	493.6972656	493.5499573
563	478.9642944	433.1446838	471.5978088	467.0305786	446.0360718
564	450.5296326	426.2201843	450.0139771	438.4485779	420.9899902
565	434.8389893	441.1741638	443.2367859	408.4669495	427.7671509
566	435.5756531	455.8334961	441.1005249	379.9586182	427.2514954
567	436.9752808	445.2257385	436.680603	364.8572998	380.8425903
568	421.6529541	416.8647461	424.0102539	354.54422	318.9640503
569	399.9954834	394.1022949	399.8481445	337.6749268	281.394928
570	387.4724426	391.7449951	360.4374085	310.0505676	269.1665344
571	387.4724426	398.0065308	320.0690002	283.6048584	253.2549133
572	388.7984009	402.5000916	306.6619873	261.8737183	232.9970551
573	379.2219544	402.3527527	321.3213196	241.9105072	222.7576294
574	361.8370361	393.5866394	327.3618469	221.0633392	231.5974274
575	349.1666565	373.3287659	302.4631043	204.1203919	241.6895142
576	337.6749268	356.5331726	265.0412903	193.5863037	241.9105072
577	322.7946167	342.9788208	245.2991028	195.2069397	234.1756897
578	310.2715759	321.1739807	231.8184204	201.026474	224.5992584
579	308.061615	292.7393189	204.6360474	197.4168854	210.2345886
580	311.2292175	277.2696838	166.0356293	177.8956757	195.5016022
581	315.2807922	277.8590088	137.3799591	167.0669251	185.4831696
582	320.2900085	275.7963867	128.9821625	175.9803925	188.7244263
583	316.5331116	258.5587769	139.0005951	188.0614471	206.404007
584	288.4667664	244.9307709	152.7022705	187.6194458	225.7042236
585	251.3396301	245.4464264	163.0890198	189.0927429	225.335907
586	229.0191498	245.3727722	165.0043182	197.7115479	210.3082581
587	227.0301971	236.0173187	162.8680267	202.057785	199.4795075
588	232.2604065	227.2511902	161.5420685	194.9122772	200.4371491
589	236.6802979	227.8405151	170.5291901	190.8607025	197.8588715
590	229.5348053	237.3432922	184.3045349	195.3542633	191.2290344
591	215.0228119	243.2364807	189.0927429	199.184845	187.2511292
592	205.2253723	234.1020355	178.9269867	183.125885	186.0724945
593	206.404007	217.1590881	162.7207031	155.2805481	173.9914398
594	210.5292511	211.0449066	144.967453	130.1607971	147.1037293
595	213.0338593	217.52742	121.9839859	108.797966	106.3670197
596	212.3708649	219.8846893	92.81267548	83.30989838	70.71318817

	AJ	AK	AL	AM	AN
547	206.6812592	211.4818268	208.8230438	247.6707001	229.4285431
548	180.6104889	208.6014862	199.8866119	245.3811951	216.7993622
549	164.6578522	205.0564423	184.8940735	239.1035309	201.289856
550	173.2250061	204.3917542	183.4169769	221.7476502	193.1658173
551	193.9782257	197.3755493	198.11409	203.0623627	197.6709595
552	207.1982422	182.5307159	205.5734253	188.2175446	202.1761017
553	212.2203674	172.6341705	193.2396698	175.5145111	194.5690613
554	212.29422	166.2826538	181.7921753	163.1807556	174.0374146
555	211.0386963	153.4319153	180.8320618	159.9311371	161.9990692
556	200.1820221	147.0065308	178.5425568	164.6578522	169.9753876
557	185.4110565	164.8794098	169.1629944	173.5204315	184.6725159
558	176.1791992	189.6207886	167.0950623	183.7124023	187.8482666
559	182.3830109	196.6369934	182.9738464	196.710846	189.8423462
560	196.710846	184.8940735	202.1761017	205.7211456	198.8526459
561	204.0963287	182.3830109	210.9648285	210.3739929	207.3459473
562	194.9383392	196.9324188	214.583725	210.8171234	203.6532135
563	179.2811127	207.9367828	221.8215027	213.4020386	196.6369934
564	170.1231079	196.0461578	227.7298889	215.9131165	195.6768799
565	173.0034485	178.9856873	222.4861908	215.617691	206.3119812
566	176.3269043	175.7360687	213.1066284	209.2661743	222.4123383
567	177.0654602	189.3992157	216.2085266	213.0327759	233.3428497
568	180.1673584	205.2041626	225.8096619	227.360611	225.2188263
569	191.3932953	210.8171234	222.7816162	235.7062073	209.1184692
570	191.9102783	202.1761017	208.7491913	228.1730194	205.2780151
571	169.3106995	193.5350952	194.9383392	215.469986	217.2424927
572	152.2502289	193.7566528	196.1200104	207.1982422	225.2926788
573	178.0255737	203.3577881	213.8451691	204.6133118	221.0829468
574	223.5201569	212.5157929	233.6382752	204.5394592	216.6516571
575	243.9779511	214.4360199	233.5644226	214.6575775	224.7018433
576	232.7520142	204.9825897	214.8791504	236.5924683	234.2291107
577	217.6117706	192.4272614	192.5749817	250.9203033	231.4964905
578	208.5276184	189.546936	180.4627838	238.6604004	217.6856232
579	204.9087372	197.1539764	185.854187	215.469986	209.6354523
580	204.3917542	203.3577881	201.289856	201.806839	205.9427033
581	211.0386963	206.9766693	205.8688507	203.5793457	206.9028168
582	214.1405945	206.1642761	199.148056	206.0904083	215.617691
583	208.5276184	195.6768799	197.8186798	202.4715271	224.9234009
584	193.9043732	177.0654602	203.6532135	191.5410156	216.4300995
585	172.929596	167.7597504	202.323822	180.9059143	198.0402374
586	155.5737	171.0093689	193.5350952	168.2767334	183.1215515
587	163.6977387	171.4524994	184.6725159	157.7893524	174.8498077
588	192.4272614	161.3343811	180.3150787	149.9607239	165.3225403
589	211.1864014	161.2605286	182.161438	139.3994904	150.4777222
590	192.3534088	174.1112671	192.8703919	121.7481766	123.0775681
591	154.0227509	180.6104889	205.7211456	114.6581116	93.4617691
592	135.5590363	169.3106995	209.8570099	127.9519882	77.21370697
593	149.5914612	152.1025238	200.9944305	145.603302	81.34957886
594	161.1128082	143.2399445	185.5587616	132.1617127	77.58297729
595	153.7273254	148.1143646	170.3446655	80.46331787	42.94505692
596	138.0700989	151.8809509	163.7715912	23.81664848	-6.38998413

	AO	AP	AQ	AR	AS
547	239.251236	1297.608276	302.0043945	607.2640381	872.0404053
548	234.0814056	1262.028076	259.0947266	608.0252686	855.6376953
549	220.3444061	1168.989258	229.1096497	606.6502075	845.324585
550	204.3917542	1074.624512	184.7967377	610.4562378	834.9869385
551	193.3873749	1035.508423	110.4249039	615.9320068	814.2379761
552	189.1776581	1028.289307	66.03813934	614.0412598	780.8186646
553	180.3150787	999.1915894	106.7321625	601.3463135	748.1605225
554	164.2147217	946.152832	181.1039887	580.9165649	724.7841797
555	148.7790527	908.1417236	188.0463562	564.2191773	704.329895
556	144.9385986	898.9335938	114.8561935	556.9509277	676.7301025
557	147.5235138	894.9556885	53.6305275	554.0288696	643.8755493
558	153.8750305	862.8377686	62.5669632	545.5083008	606.4291992
559	165.7656708	799.7805786	84.4280014	528.4671021	569.5476074
560	177.8040161	754.4766846	56.8801384	507.6445007	540.94104
561	179.0595398	751.3827515	22.98076439	491.1926575	520.4130859
562	176.9177551	766.1157227	72.09423828	475.0354919	494.2865906
563	179.7242279	777.3128052	166.7761536	457.5769043	461.5548096
564	188.4391022	778.2704468	193.2900391	447.9267883	436.4841919
565	195.3076019	754.1820068	151.9313355	451.2171631	426.4902954
566	197.9663849	703.1322022	127.6330872	453.1079102	416.1035461
567	195.2337494	645.3052368	137.45578	443.8506775	394.1268311
568	191.7625732	610.3143921	162.7141419	425.8027649	365.8395081
569	186.37117	592.0454712	190.4097138	408.8598328	339.6393433
570	192.2057037	580.1854248	203.8512878	399.7990418	313.2181702
571	212.8850555	580.3327637	188.1940613	398.0556335	285.6429138
572	232.3827362	588.4359131	157.8397217	396.2631226	267.1775818
573	232.6043091	584.1633301	137.308075	389.5596008	261.9964905
574	232.456604	568.1043701	147.7216034	377.0365601	260.0075378
575	249.8124847	556.0233154	207.5440369	363.3103333	249.4243317
576	271.9689331	551.9717407	304.5154419	351.4993897	233.5126953
577	272.3382263	539.6696777	370.0246887	339.4429016	224.8939056
578	250.4771729	516.6125488	354.7367554	326.2814331	219.148056
579	220.0489807	498.3436585	263.3782959	316.3612061	204.0958405
580	200.5513001	503.2792053	167.588562	308.1598511	179.8109741
581	202.323822	511.0877075	138.5635986	301.8246765	163.3100128
582	219.6058502	493.1134644	159.9815064	295.5877075	164.5623322
583	225.071106	460.3325501	160.1292114	284.3415222	177.8220215
584	204.8348846	438.012085	112.1974182	267.0302734	188.6753082
585	174.5543976	419.7431641	49.27309036	251.3150635	192.5058899
586	159.783432	394.770752	26.378088	240.2407837	191.0080414
587	157.2723541	370.9769898	55.3291893	235.4525604	188.1351013
588	155.6475525	363.7578125	77.3379364	234.4212494	185.6304932
589	138.0700989	362.210846	49.19923401	233.0216065	186.4162598
590	108.6020126	369.7983398	43.43855667	227.5213013	190.2959442
591	86.66712189	395.4337463	124.4573288	222.6594086	191.8429108
592	86.81483459	429.4669495	253.407898	216.8398743	182.7084503
593	94.4957428	458.7119446	358.7987671	208.9577332	163.9975586
594	89.84288025	489.4302063	410.0540161	204.4641724	140.743988
595	61.03949356	511.7507019	406.4351502	209.0068359	112.382988
596	25.36760139	506.8151245	386.3466187	212.2971954	82.27858734

	AT	AU
547	208.9953766	238.783493
548	196.3661957	232.0873261
549	184.8694611	220.2459259
550	187.0112457	206.4350739
551	196.4892883	198.0402374
552	198.4341278	193.1904297
553	192.6980743	183.466217
554	186.7896881	167.1443024
555	181.7675629	156.9030914
556	175.2436981	159.8572846
557	173.1511536	168.5721588
558	177.6316834	175.1452332
559	187.3312836	184.1062927
560	194.5936737	194.1259308
561	199.148056	198.9264984
562	202.1514893	197.129364
563	203.0131378	196.5877533
564	197.9663849	200.0097046
565	191.4917755	205.7457581
566	188.3898621	209.8816376
567	194.2243958	213.8697968
568	203.727066	214.7806702
569	208.3306732	210.3986206
570	200.9451904	208.5522461
571	185.9280396	215.199173
572	180.7089691	221.6245575
573	198.4095154	219.4335175
574	223.2247467	217.8825684
575	230.6594696	229.7239685
576	217.5379181	247.5968323
577	200.8713379	251.5850067
578	192.8457794	235.6077271
579	195.9723053	215.0514679
580	203.0131378	202.7669525
581	207.9614105	204.2686615
582	206.484314	213.7713165
583	200.6743927	217.488678
584	191.5410156	204.2686615
585	181.0043945	184.5001831
586	173.3727264	170.3939056
587	173.2742462	163.303833
588	178.0255737	156.976944
589	184.8694611	142.6491089
590	186.4450226	117.8092499
591	180.1181335	98.26233673
592	171.5755768	97.32684326
593	167.5628052	107.1495438
594	163.303833	99.86252594
595	157.3954468	61.48262405
596	151.2408752	14.26475525

	A	B	C	D	E	F	G	H	I	J	K
597								.000910	196.46	153.73	213.03
598								.000920	204.64	138.07	212.37
599								.000930	200.95	128.17	206.63
600								.000940	189.02	128.69	194.76
601								.000950	182.98	144.86	178.19
602								.000960	176.94	149.30	155.35
603								.000970	159.85	124.55	129.13
604								.000980	124.93	88.88	100.84
605								.000990	92.81	71.60	71.67
606								.001000	75.87	58.53	48.25
607								.001010	78.45	52.40	41.17
608								.001020	95.91	79.13	59.37
609								.001030	121.84	133.93	104.30
610								.001040	134.43	158.45	146.81
611								.001050	129.65	141.32	155.35
612								.001060	126.11	143.54	134.95
613								.001070	138.19	195.16	120.07
614								.001080	160.73	262.37	129.35
615								.001090	189.98	306.90	158.89
616								.001100	220.03	313.77	187.18
617								.001110	239.70	306.02	198.89
618								.001120	240.44	311.48	197.49
619								.001130	229.53	334.38	201.10
620								.001140	217.90	346.93	215.39
621								.001150	214.95	331.72	223.64
622								.001160	213.62	302.99	211.41
623								.001170	205.52	285.34	193.29
624								.001180	187.77	274.41	184.82
625								.001190	176.50	263.48	182.98
626								.001200	173.62	250.11	178.12
627								.001210	168.91	231.42	167.66
628								.001220	149.02	205.94	152.63
629								.001230	124.71	197.67	137.97
630								.001240	109.53	209.86	128.61
631								.001250	105.78	220.79	121.32
632								.001260	97.90	204.83	105.26
633								.001270	79.85	162.00	81.91
634								.001280	62.54	125.81	60.40
635								.001290	57.16	129.50	45.23
636								.001300	54.88	145.75	33.81
637								.001310	50.38	135.04	31.38
638								.001320	45.45	110.01	36.83
639								.001330	41.25	109.34	43.60
640								.001340	27.55	121.60	44.27
641								.001350	10.31	116.36	45.23
642								.001360	10.01	95.83	47.73
643								.001370	29.98	86.74	45.81
644								.001380	42.87	89.18	38.89
645								.001390	42.72	84.97	38.01
646								.001400	40.51	67.32	45.89

	L	M	N	O	P	Q	R	S	T
597	148.11	217.53	170.34	121.98	80.46	108.80	42.95	106.37	61.04
598	151.88	219.88	163.77	92.81	23.82	83.31	-6.39	70.71	25.37
599	139.69	205.74	163.70	68.13	-11.12	59.66	-31.57	57.75	11.85
600	124.48	186.07	164.81	60.47	-15.47	48.02	-6.91	71.23	36.67
601	126.40	172.52	161.48	82.20	37.41	67.62	74.55	93.84	83.93
602	121.75	167.36	152.99	127.44	140.43	118.01	177.95	121.10	140.73
603	82.09	157.20	133.12	185.04	248.56	185.56	267.32	169.87	223.82
604	26.70	131.41	98.04	246.48	337.18	250.09	334.45	246.63	343.61
605	-4.91	95.02	52.55	284.05	393.90	289.20	387.33	306.15	441.24
606	.26	65.78	23.74	275.80	412.07	288.17	426.47	315.94	473.00
607	37.04	50.31	38.00	253.18	420.05	272.11	451.81	300.25	477.95
608	85.19	57.82	88.44	251.78	437.99	268.72	455.06	297.60	502.32
609	129.50	93.18	142.87	267.91	451.81	279.26	436.81	304.60	523.67
610	160.97	132.89	182.38	274.25	434.38	283.09	408.67	303.49	504.76
611	175.74	145.11	212.96	261.43	401.07	276.68	394.20	289.87	455.57
612	179.58	139.07	239.99	234.99	386.81	265.41	399.81	276.39	428.39
613	193.83	143.79	254.61	212.00	394.20	253.25	411.48	263.27	432.31
614	223.45	170.46	270.05	198.01	389.18	236.61	400.33	247.80	431.64
615	256.24	202.21	296.71	187.91	359.19	222.83	363.33	229.24	400.25
616	273.96	219.88	316.36	173.70	318.13	211.93	326.18	216.72	359.56
617	277.80	217.45	314.44	156.68	286.37	206.26	310.96	204.05	328.17
618	285.78	207.95	309.56	141.65	271.01	200.58	301.29	188.43	308.60
619	309.41	203.16	321.08	132.08	256.02	188.87	283.71	169.42	282.53
620	327.58	207.95	337.77	124.64	223.15	166.99	266.43	151.74	244.86
621	312.96	211.12	329.21	113.07	184.89	147.62	251.07	132.30	207.72
622	274.18	204.27	301.66	96.13	165.54	135.02	220.79	114.62	189.47
623	246.27	189.17	283.27	84.12	166.43	125.74	187.26	100.92	187.77
624	248.41	175.91	288.00	79.26	168.20	110.79	170.86	91.19	185.12
625	271.16	168.39	301.29	74.84	161.41	92.52	167.32	79.33	162.00
626	281.72	167.44	297.52	68.65	145.31	74.54	152.03	69.90	131.64
627	255.35	167.66	264.95	63.13	129.65	65.41	129.21	64.08	114.58
628	213.25	165.96	228.84	53.62	121.53	66.00	119.61	60.47	112.81
629	191.54	159.92	215.99	43.24	122.56	67.91	126.84	51.56	113.62
630	190.36	152.11	223.89	37.49	124.48	60.69	130.17	37.78	115.99
631	187.85	138.56	229.06	39.48	123.59	49.20	126.77	25.26	122.71
632	178.84	115.80	216.73	37.42	117.61	38.89	125.37	20.47	132.83
633	170.27	87.29	191.84	25.04	112.59	33.66	131.72	19.74	130.98
634	164.81	65.48	171.53	7.66	114.44	28.06	134.23	21.06	119.16
635	160.37	54.51	163.77	2.87	124.63	21.87	132.90	18.12	116.14
636	152.77	47.95	159.49	4.86	130.24	17.38	132.97	12.74	127.29
637	145.53	39.04	149.30	-1.11	125.66	17.09	136.22	3.97	130.32
638	139.92	32.63	139.47	-10.54	118.57	12.15	132.97	1.03	121.60
639	136.67	29.46	133.05	.58	123.30	11.04	127.29	5.67	113.25
640	134.23	32.11	128.40	26.51	130.68	17.23	121.67	16.20	114.29
641	133.12	35.21	117.54	42.20	122.56	24.08	115.91	24.16	111.85
642	128.32	33.88	104.10	41.76	98.34	24.30	103.58	28.28	99.15
643	117.98	28.50	92.13	41.76	81.72	26.51	86.15	26.37	81.20
644	106.90	27.99	88.00	49.79	88.22	26.37	67.54	26.00	73.96
645	99.30	27.18	82.09	60.11	107.57	22.68	59.49	28.36	74.55
646	92.21	24.23	70.35	64.82	103.95	22.98	59.41	32.85	71.01

	U	V	W	X	Y	Z	AA	AB	AC	AD
597	.000910	511.75	406.44	209.01	157.40	112.38	61.48		0.00592	200.9528046
598	.000920	506.82	386.35	212.30	151.24	82.28	14.26		0.00593	189.0190888
599	.000930	479.12	395.28	204.44	143.86	61.85	-10.28		0.00594	182.9785614
600	.000940	459.01	436.12	189.95	139.33	59.91	4.76		0.00595	176.9380341
601	.000950	461.88	458.43	177.90	144.25	81.22	65.30		0.00596	159.8477631
602	.000960	476.02	445.36	166.55	141.34	122.18	153.04		0.00597	124.9305878
603	.000970	477.64	431.69	148.72	113.25	180.15	246.56		0.00598	92.81267548
604	.000980	468.29	443.07	119.06	71.21	247.73	338.41		0.00599	75.86973572
605	.000990	457.53	450.90	86.50	39.74	293.13	407.49		0.006	78.44800568
606	.001000	447.66	425.34	63.30	27.51	293.30	437.18		0.00601	95.90660095
607	.001010	436.47	384.57	56.64	42.48	275.18	449.93		0.00602	121.8366623
608	.001020	427.18	364.12	71.03	84.25	272.70	465.12		0.00603	134.4333649
609	.001030	417.75	361.01	106.44	135.44	283.92	470.76		0.00604	129.6451416
610	.001040	410.68	353.78	138.04	167.27	286.94	449.27		0.00605	126.1092224
611	.001050	409.28	320.02	143.37	176.67	275.99	416.95		0.00606	138.1902771
612	.001060	419.60	273.87	133.38	187.70	258.93	405.01		0.00607	160.7317505
613	.001070	421.00	244.77	134.02	214.53	242.84	412.66		0.00608	189.9767304
614	.001080	401.33	245.87	153.51	251.95	227.47	407.05		0.00609	220.0320282
615	.001090	378.05	253.48	183.69	286.62	213.33	374.26		0.0061	239.7005615
616	.001100	376.06	242.33	209.03	301.36	200.78	334.62		0.00611	240.4372101
617	.001110	383.35	213.45	218.68	299.42	188.99	308.50		0.00612	229.5348053
618	.001120	380.55	184.65	215.29	302.27	176.89	293.63		0.00613	217.8957367
619	.001130	373.11	151.86	211.27	321.62	163.46	274.09		0.00614	214.9491425
620	.001140	381.66	115.74	213.75	337.43	147.79	244.81		0.00615	213.623169
621	.001150	394.48	89.23	216.57	324.63	131.00	214.56		0.00616	205.5200348
622	.001160	398.09	94.10	209.77	292.94	115.26	191.93		0.00617	187.7667847
623	.001170	395.14	116.33	195.99	271.62	103.59	180.49		0.00618	176.496048
624	.001180	400.44	129.18	182.83	270.27	93.75	174.73		0.00619	173.6231079
625	.001190	409.06	116.55	175.96	278.64	82.23	163.57		0.0062	168.9085541
626	.001200	408.18	86.50	173.06	276.45	71.03	142.99		0.00621	149.0190277
627	.001210	396.32	53.19	168.07	250.58	64.21	124.48		0.00622	124.7095947
628	.001220	384.75	44.55	155.87	216.01	60.03	117.98		0.00623	109.5346146
629	.001230	379.23	80.37	140.87	201.73	54.24	121.01		0.00624	105.7777023
630	.001240	375.54	130.22	130.09	208.04	45.32	123.55		0.00625	97.89555359
631	.001250	367.81	138.93	121.89	212.57	37.98	124.36		0.00626	79.84764099
632	.001260	360.44	118.40	106.32	200.13	32.26	125.27		0.00627	62.53638077
633	.001270	354.77	115.30	83.02	174.70	26.15	125.10		0.00628	57.15884018
634	.001280	360.07	135.54	62.81	154.05	18.93	122.61		0.00629	54.87522888
635	.001290	372.08	136.27	52.30	151.22	14.29	124.55		0.0063	50.38166428
636	.001300	379.08	108.87	45.54	152.67	11.66	130.17		0.00631	45.44611359
637	.001310	371.86	86.50	40.27	143.29	6.65	130.73		0.00632	41.24721527
638	.001320	361.33	86.27	38.30	129.80	.88	124.38		0.00633	27.54553413
639	.001330	356.91	86.35	38.10	126.35	5.77	121.28		0.00634	10.30793858
640	.001340	365.16	79.33	34.64	128.08	19.98	122.22		0.00635	10.01327896
641	.001350	376.87	75.12	30.25	122.34	30.15	116.78		0.00636	29.97647667
642	.001360	385.49	79.18	30.54	109.41	31.45	100.35		0.00637	42.86784363
643	.001370	382.47	78.00	34.76	98.95	31.55	83.02		0.00638	42.72051239
644	.001380	376.50	71.72	36.58	94.69	34.05	76.57		0.00639	40.5105629
645	.001390	370.90	62.71	35.97	88.78	37.05	80.54		0.0064	41.24721527
646	.001400	365.45	55.77	36.88	76.62	40.22	78.12		0.00641	38.15328598

	AE	AF	AG	AH	AI
597	206.625	205.7410278	68.13491821	59.66344833	57.74816132
598	194.7649536	186.0724945	60.47376251	48.02438736	71.22884369
599	178.1903381	172.5181427	82.20491791	67.6192627	93.84397888
600	155.3542023	167.3615875	127.4351959	118.0060806	121.1000061
601	129.1294861	157.1958313	185.0411835	185.556839	169.8661957
602	100.8421478	131.4131012	246.4777374	250.0873261	246.625061
603	71.6708374	95.02262115	284.0468445	289.2033997	306.1463318
604	48.24538422	65.7776413	275.7963867	288.1720886	315.9437866
605	41.17354965	50.30800247	253.1812439	272.1131287	300.2531433
606	59.36878967	57.82182693	251.7816162	268.7245483	297.6011963
607	104.3044052	93.18099976	267.9142456	279.2586365	304.5993652
608	146.8090668	132.8863983	274.2494202	283.0892029	303.4944153
609	155.3542023	145.1147766	261.4317322	276.6803589	289.866394
610	134.9490204	139.0742493	234.9860077	265.4096375	276.3857117
611	120.0687027	143.7888184	212.0025482	253.2549133	263.273346
612	129.3504791	170.4555206	198.0062103	236.6066437	247.8037109
613	158.8901215	202.2051086	187.9141083	222.8312988	229.2401428
614	187.1774597	219.8846893	173.6967773	211.9288788	216.7171021
615	198.8901825	217.4537506	156.6801758	206.2566834	204.0467377
616	197.4905548	207.9509735	141.6525269	200.5844879	188.4297638
617	201.1001282	203.1627502	132.0760803	188.8717499	169.4242096
618	215.3911285	207.9509735	124.6359253	166.9932709	151.7446289
619	223.6416016	211.1185608	113.0705338	147.6193848	132.2970734
620	211.4132233	204.2677307	96.12759399	135.0226898	114.6174927
621	193.2916565	189.1664124	84.12020874	125.7408981	100.9158173
622	184.8201904	175.906723	79.25832367	110.7869186	91.19204712
623	182.9785614	168.3928986	74.83842468	92.518013	79.33198547
624	178.1166687	167.435257	68.65057373	74.54376984	69.90287781
625	167.65625	167.65625	63.1257019	65.40931702	64.08334351
626	152.6286011	165.9619598	53.6229248	65.99863434	60.47376251
627	137.9692841	159.9214325	43.23616791	67.91392517	51.56030655
628	128.6138306	152.1129456	37.49030304	60.69475937	37.7849617
629	121.3210068	138.5585938	39.47925568	49.20302582	25.26192093
630	105.2620468	115.796135	37.41663742	38.88993454	20.47369957
631	81.91026306	87.28780365	25.04092598	33.65972519	19.73705101
632	60.40009689	65.48297882	7.65600061	28.06118965	21.0630188
633	45.22512054	54.5069046	2.86777925	21.87333488	18.11642265
634	33.80705261	47.95072174	4.85673285	17.37977219	12.73888111
635	31.37611198	39.03726578	-1.11012757	17.08511353	3.97275329
636	36.82731628	32.62841415	-10.53923988	12.14956188	1.02615571
637	43.60449219	29.46082306	0.58416605	11.04458809	5.66704702
638	44.26747513	32.11276245	26.51422501	17.23244286	16.20113373
639	45.22512054	35.20668793	42.20485687	24.08328247	24.15694809
640	47.7297287	33.88071823	41.76286697	24.30427742	28.2821846
641	45.81443787	28.50317955	41.76286697	26.51422501	26.36689568
642	38.88993454	27.98752403	49.79234695	26.36689568	25.9985714
643	38.00595474	27.17720985	60.10543823	22.68364906	28.35584831
644	45.88810349	24.2306118	64.81999207	22.97830772	32.84941101
645	51.11831665	23.56762695	64.15701294	32.11276245	32.92307663
646	47.2877388	30.19747162	64.30433655	38.30061722	32.62841415

	AJ	AK	AL	AM	AN
597	128.1735535	139.6949005	163.6977387	-11.11669445	-31.57448769
598	128.6905365	124.4808044	164.8055573	-15.47413063	-6.90696764
599	144.8647461	126.4010315	161.4820862	37.40594101	74.55493164
600	149.2960358	121.7481766	152.9887848	140.4334564	177.9517212
601	124.5546646	82.08812714	133.1218262	248.5569611	267.3160706
602	88.88277435	26.69698906	98.04077148	337.1827698	334.4501343
603	71.60073853	-4.9128871	52.54618454	393.9032898	387.3302002
604	58.52842712	0.25695246	23.74279404	412.0715942	426.4732971
605	52.39847565	37.03666687	37.9967804	420.0479126	451.8055115
606	79.13393402	85.19002533	88.43964386	437.9946289	455.0551148
607	133.9342346	129.502945	142.8706665	451.8055115	436.8129578
608	158.4540405	160.9651032	182.3830109	434.3757629	408.6742554
609	141.3197174	175.7360687	212.9589233	401.0672302	394.1987305
610	143.5353546	179.5765228	239.9897919	386.8132324	399.811676
611	195.1598969	193.8305054	254.6130524	394.1987305	411.4807434
612	262.3677979	223.4463043	270.0487061	389.1765747	400.3286743
613	306.9022827	256.237854	296.7103272	359.1915283	363.3273926
614	313.7707825	273.9630127	316.3557129	318.1282349	326.1784058
615	306.0160217	277.8034668	314.4354858	286.370636	310.9642944
616	311.4812927	285.7797852	309.5610657	271.0088196	301.2893066
617	334.3762817	309.4133606	321.082428	256.0162964	283.711853
618	346.9316101	327.5816345	337.7736206	223.1508789	266.4298401
619	331.7174988	312.958374	329.2064514	184.8940735	251.0680237
620	302.9879761	274.1846008	301.6585999	165.5440979	220.7875366
621	285.3366699	246.2674561	283.2687378	166.4303589	187.257431
622	274.4061585	248.4092407	287.9954529	168.2028809	170.8616486
623	263.475647	271.1565247	301.2893066	161.4082336	167.3166199
624	250.1079102	281.7177734	297.5227051	145.3078766	152.0286713
625	231.4226227	255.351593	264.9527283	129.65065	129.2075195
626	205.9427033	213.2543335	228.8377075	121.5266113	119.6063843
627	197.6709595	191.5410156	215.986969	122.560585	126.844162
628	209.8570099	190.3593292	223.8894348	124.4808044	130.1676331
629	220.7875366	187.8482666	229.0592804	123.5945511	126.7703095
630	204.8348846	178.8379822	216.7255096	117.6123047	125.3670654
631	161.9990692	170.270813	191.8364258	112.5901794	131.7185822
632	125.8101959	164.8055573	171.5263519	114.4365463	134.2296448
633	129.502945	160.3742676	163.7715912	124.6285172	132.9002533
634	145.7510071	152.7672119	159.4880066	130.2414856	132.9741211
635	135.0420532	145.5294342	149.2960358	125.6624832	136.2237244
636	110.0052567	139.9164734	139.4733429	118.5724182	132.9741211
637	109.3405609	136.6668549	133.0479736	123.2991333	127.2872925
638	121.6004715	134.2296448	128.3951111	130.6846161	121.674324
639	116.3567734	133.1218262	117.5384522	122.560585	115.9136429
640	95.82512665	128.3212585	104.0968704	98.33618927	103.5798874
641	86.74098206	117.9815826	92.13238525	81.71884918	86.15013885
642	89.17819214	106.9033508	87.99651337	88.21807861	67.53871918
643	84.96846771	99.2963028	82.08812714	107.5680466	59.48854065
644	67.31715393	92.20623779	70.34520721	103.9491577	59.41468811
645	52.39847565	80.9803009	58.45457458	65.2492218	56.38663864
646	45.0868454	65.69234467	60.22708893	28.764925	46.41623306

	AO	AP	AQ	AR	AS
597	11.85216331	479.1171265	395.2830505	204.4396057	61.84884262
598	36.66739273	459.0065918	436.1247864	189.952179	59.90899658
599	83.93449402	461.8795166	458.4289551	177.8956757	81.22271729
600	140.7288818	476.0231934	445.3566589	166.5512695	122.1804276
601	223.8155823	477.6438294	431.693512	148.7243652	180.1547394
602	343.6081543	468.2883606	443.0671387	119.0619431	247.7300415
603	441.2442627	457.5332947	450.895752	86.50204468	293.1322022
604	473.0018311	447.6622009	425.34198	63.29758835	293.3040772
605	477.9501038	436.4651184	384.5740967	56.64318466	275.1824951
606	502.3222046	427.1833496	364.1163025	71.03240967	272.7024536
607	523.6662598	417.7542114	361.0144043	106.4406891	283.9240723
608	504.7594299	410.6824036	353.7766419	138.0429382	286.9443359
609	455.5720825	409.2827454	320.0249634	143.3713684	275.9928284
610	428.3935242	419.5958557	273.8656921	133.3775024	258.927124
611	432.3078308	420.9954834	244.7668762	134.0159302	242.8435974
612	431.6431274	401.3269348	245.8746948	153.5125885	227.4721832
613	400.2548218	378.0488281	253.4817505	183.6906586	213.3285217
614	359.560791	376.0598755	242.3296661	209.0313873	200.7809143
615	328.1724854	383.3526917	213.4524231	218.6815033	188.9945374
616	308.6009522	380.5534363	184.6490326	215.2929077	176.8889313
617	282.5301819	373.1132813	151.8574829	211.2658997	163.4573517
618	244.864212	381.6584168	115.7424545	213.7459412	147.791275
619	207.7152252	394.4761047	89.2285614	216.5697632	130.9956665
620	189.4730682	398.0856934	94.10298157	209.7680359	115.255928
621	187.7744141	395.1390991	116.3332901	195.9927063	103.592308
622	185.1156464	400.4429627	129.1840363	182.8312378	93.74576569
623	161.9990692	409.0617676	116.5548554	175.9558411	82.22947693
624	131.6447296	408.1777954	86.49593353	173.0583496	71.03240967
625	114.584259	396.3177185	53.187397	168.0736847	64.20612335
626	112.8117447	384.7523193	44.54637909	155.8698578	60.03177261
627	113.6241455	379.2274475	80.36598206	140.8667755	54.23680115
628	115.9875031	375.54422	130.2180023	130.0871277	45.32334137
629	122.7082901	367.8093872	138.9328766	121.8857651	37.98139954
630	132.8264008	360.4429016	118.4012299	106.3179092	32.26008987
631	130.9800415	354.7706909	115.299324	83.0152359	26.14590073
632	119.1632614	360.074585	135.535553	62.80648422	18.92673683
633	116.1352081	372.0819702	136.2741089	52.29695511	14.28584576
634	127.2872925	379.0801392	108.8739548	45.54433441	11.65846252
635	130.3153381	371.8609619	86.49593353	40.26501465	6.64924622
636	121.6004715	361.3268738	86.27436829	38.3006134	0.8788259
637	113.2548676	356.9069824	86.34822845	38.10417557	5.7652669
638	114.2888413	365.1574402	79.33201599	34.641922	19.98260117
639	111.8516312	376.8701782	75.12228394	30.24658203	30.14836311
640	99.14859772	385.4889832	79.18430328	30.5412426	31.4497757
641	81.20186615	382.4687195	78.00262451	34.76469803	31.54799652
642	73.96408844	376.5018616	71.72496796	36.58176804	34.05260468
643	74.55493164	370.9033203	62.71467209	35.96789169	37.04831314
644	71.00989532	365.4521179	55.77231598	36.8764267	40.21590424
645	58.60228348	359.48526	63.01009369	38.64438629	43.06428528
646	49.14886093	358.6012878	84.2802887	38.54616547	45.07778931

	AT	AU
597	143.8553925	-10.27967262
598	139.3256378	4.76209831
599	144.2492828	65.29845428
600	141.3443298	153.0380249
601	113.2548752	246.5628662
602	71.20684814	338.4136963
603	39.7446785	407.4925842
604	27.50939178	437.182251
605	42.47730637	449.9345093
606	84.25453186	465.1239929
607	135.4359436	470.7615662
608	167.2673798	449.2698059
609	176.6715698	416.9460144
610	187.7005615	405.006134
611	214.5344849	412.6624451
612	251.9542694	407.049469
613	286.6168213	374.2579041
614	301.3631592	334.622467
615	299.418335	308.5024719
616	302.2740479	293.6330261
617	321.6240234	274.0861206
618	337.4289551	244.8149719
619	324.6274414	214.5591126
620	292.9437256	191.934906
621	271.6242981	180.4873962
622	270.2702942	174.7267304
623	278.6405029	163.574646
624	276.4494629	142.9937592
625	250.5756531	124.4808121
626	216.0115814	117.9815826
627	201.7329865	121.0096283
628	208.0352631	123.545311
629	212.565033	124.3577194
630	200.1327972	125.2685928
631	174.7021027	125.0962677
632	154.0473633	122.6098175
633	151.2162628	124.554657
634	152.668747	130.1676331
635	143.2891693	130.7338562
636	129.7983551	124.3823395
637	126.351799	121.2804337
638	128.0750732	122.2159271
639	122.3390198	116.7752838
640	109.4144211	100.3548889
641	98.95165253	83.02362061
642	94.69268799	76.57363129
643	88.78430176	80.53717041
644	76.62286377	78.12458038
645	63.94445038	60.07938004
646	57.00209427	41.4433403

	A	B	C	D	E	F	G	H	I	J	K
647								.001410	41.25	52.40	51.12
648								.001420	38.15	45.09	47.29
649								.001430	40.58	39.55	43.90
650								.001440	46.11	26.99	46.40
651								.001450	45.08	13.92	49.20
652								.001460	32.26	6.09	47.88
653								.001470	20.11	7.27	43.90
654								.001480	19.15	5.80	38.30
655								.001490	24.89	-7.05	33.37
656								.001500	23.27	-25.44	30.20
657								.001510	9.79	-26.18	27.69
658								.001520	-4.20	-4.62	21.80
659								.001530	-5.16	13.55	15.39
660								.001540	.22	9.12	10.16
661								.001550	-.08	-3.73	4.41
662								.001560	-9.80	-9.64	-4.65
663								.001570	-18.57	-6.24	-12.53
664								.001580	-24.46	-4.10	-12.82
665								.001590	-29.54	-7.13	-5.90
666								.001600	-37.87	-14.07	-1.04
667								.001610	-40.52	-15.55	-1.48
668								.001620	-29.99	-11.71	-3.54
669								.001630	-7.59	-5.58	-2.07
670								.001640	7.07	-.63	1.32
671								.001650	11.49	1.59	5.89
672								.001660	13.11	-4.54	11.63
673								.001670	20.40	-13.11	14.95
674								.001680	27.25	-18.80	14.06
675								.001690	29.31	-25.30	16.20
676								.001700	21.87	-37.85	21.65
677								.001710	9.42	-36.97	21.51
678								.001720	2.65	-15.70	15.32
679								.001730	8.39	1.88	10.53
680								.001740	11.63	-6.54	9.72
681								.001750	4.41	-21.75	7.36
682								.001760	-6.93	-21.75	.29
683								.001770	-12.38	-9.20	-6.05
684								.001780	-17.10	-1.07	-10.24
685								.001790	-21.44	5.57	-14.37
686								.001800	-23.14	13.99	-19.75
687								.001810	-21.74	11.93	-20.63
688								.001820	-19.82	-4.40	-17.83
689								.001830	-17.24	-11.93	-19.23
690								.001840	-17.61	-2.99	-28.22
691								.001850	-19.60	8.53	-36.84
692								.001860	-21.00	13.77	-40.45
693								.001870	-15.92	21.01	-39.64
694								.001880	-6.49	27.29	-38.38
695								.001890	.44	29.28	-36.84
696								.001900	-2.22	34.08	-32.12

	L	M	N	O	P	Q	R	S	T
647	80.98	23.57	58.45	64.16	65.25	32.11	56.39	32.92	58.60
648	65.69	30.20	60.23	64.30	28.76	38.30	46.42	32.63	49.15
649	53.28	39.63	68.79	64.60	28.62	41.69	43.68	33.14	48.85
650	46.42	44.78	56.39	59.37	45.97	44.12	56.02	35.50	56.09
651	34.38	39.33	22.04	53.33	53.95	49.42	65.69	39.77	55.94
652	13.99	30.12	7.49	49.42	52.47	49.65	46.12	46.11	47.30
653	3.80	24.89	25.00	45.74	55.94	44.34	23.89	48.17	43.24
654	8.82	26.15	42.50	38.23	57.20	36.24	28.47	46.92	36.89
655	12.52	24.30	37.78	30.34	49.59	29.90	50.18	44.05	15.25
656	7.20	15.02	24.26	22.98	38.07	23.71	60.60	41.10	10.30
657	3.29	3.31	20.94	18.56	36.45	19.00	57.35	39.26	37.78
658	6.90	-.89	26.84	15.17	42.13	15.46	49.52	40.66	63.55
659	10.74	-.15	31.57	14.73	47.89	16.35	47.01	36.61	59.19
660	1.59	-.30	32.09	12.67	49.89	18.12	48.78	27.10	44.87
661	-11.12	-4.79	29.43	10.01	53.73	19.52	50.33	18.56	38.29
662	-12.00	-9.21	23.89	12.22	57.57	19.88	46.27	22.09	39.40
663	1.00	-11.79	16.51	19.52	58.68	22.17	42.21	29.76	36.45
664	12.74	-9.73	16.95	22.02	57.49	19.81	40.43	31.08	29.95
665	12.81	-9.58	22.12	14.43	57.13	15.10	43.76	22.68	26.18
666	5.28	-12.60	24.19	1.84	55.43	12.15	47.82	13.70	31.72
667	.11	-17.17	21.45	-3.84	53.06	12.52	52.25	8.83	40.66
668	-.04	-16.06	21.82	-.23	53.14	11.93	55.43	11.78	47.97
669	4.10	-10.61	25.66	6.26	51.51	12.89	58.75	13.92	51.00
670	10.01	-5.75	26.55	10.97	44.87	12.67	60.08	13.84	50.33
671	12.89	-4.28	25.66	14.29	43.98	15.54	59.64	14.29	38.37
672	10.08	-3.47	25.29	18.48	51.14	21.65	53.58	20.11	25.59
673	6.02	-.59	14.73	23.49	55.06	30.34	47.15	27.99	31.28
674	3.14	3.97	-.92	27.32	48.56	31.45	41.76	37.20	52.55
675	3.36	5.81	-.19	27.99	37.04	23.49	42.95	44.19	58.45
676	4.84	5.15	18.13	27.40	29.73	11.71	47.82	48.76	44.50
677	4.32	.81	24.19	31.38	30.24	9.57	51.66	51.04	32.01
678	-.48	-1.92	6.68	36.39	32.75	16.64	50.18	54.21	36.74
679	-4.03	.14	-19.54	36.83	33.12	25.19	51.07	50.46	46.64
680	-1.59	6.48	-33.94	30.34	33.93	27.99	55.06	43.02	53.58
681	1.29	7.95	-24.63	25.92	42.21	26.22	55.20	37.93	52.47
682	-.70	2.79	.77	25.48	44.64	22.39	42.13	41.54	48.56
683	-1.96	-4.65	16.36	26.51	27.29	23.49	28.91	45.23	44.72
684	2.62	-6.27	15.77	23.27	.33	24.08	39.10	44.34	44.72
685	10.38	-4.13	6.90	16.86	-9.42	21.36	69.83	34.76	44.64
686	15.84	-5.01	-.33	13.62	-3.29	19.07	78.84	24.16	46.79
687	20.64	-12.09	-5.58	14.06	-2.25	25.04	43.24	15.32	45.09
688	25.81	-15.33	1.44	9.87	-8.46	33.00	-9.79	13.25	37.33
689	27.44	-13.71	19.68	.29	-3.88	37.20	-25.15	18.26	25.81
690	24.26	-10.17	32.61	-5.53	15.18	31.74	7.20	28.58	21.82
691	20.86	-11.94	32.31	-3.54	34.89	21.58	47.30	30.71	22.41
692	22.86	-16.06	32.75	1.47	44.87	12.67	47.75	25.04	21.01
693	23.67	-18.86	38.07	7.95	46.34	9.87	22.41	19.59	18.06
694	19.68	-14.08	43.54	19.44	45.90	11.34	18.35	24.82	21.75
695	21.08	-5.01	44.57	35.50	42.35	16.94	41.62	29.90	23.15
696	30.83	73	45.01	46.55	36.74	21.14	54.91	28.43	14.29

	U	V	W	X	Y	Z	AA	AB	AC	AD
647	.001410	359.49	63.01	38.64	63.94	43.06	60.08		0.00642	40.58422852
648	.001420	358.60	84.28	38.55	57.00	45.08	41.44		0.00643	46.10910034
649	.001430	359.34	83.98	41.37	53.88	46.48	40.38		0.00644	45.07778931
650	.001440	355.95	47.80	45.77	43.27	46.33	52.69		0.00645	32.26008987
651	.001450	349.91	13.68	44.54	23.45	47.51	58.53		0.00646	20.10537529
652	.001460	351.01	15.15	36.75	9.19	48.39	48.63		0.00647	19.14773178
653	.001470	352.93	25.64	29.63	12.02	46.08	41.02		0.00648	24.89359665
654	.001480	351.97	29.63	27.86	19.04	40.46	40.85		0.00649	23.27296829
655	.001490	346.37	31.10	27.52	14.41	34.76	38.34		0.0065	9.79228401
656	.001500	346.37	40.19	22.83	2.00	29.26	36.32		0.00651	-4.20405531
657	.001510	350.94	52.67	13.60	-.65	25.61	43.86		0.00652	-5.1616993
658	.001520	350.57	65.96	5.57	9.71	23.76	51.73		0.00653	0.21584135
659	.001530	344.83	74.31	3.36	18.62	22.56	51.36		0.00654	-0.07881841
660	.001540	344.16	74.01	3.36	14.26	19.30	47.84		0.00655	-9.80259037
661	.001550	348.88	72.32	-.15	4.86	16.03	47.45		0.00656	-18.56871796
662	.001560	351.97	80.74	-7.89	.75	18.07	47.75		0.00657	-24.46191406
663	.001570	349.32	93.07	-14.30	3.75	23.81	45.78		0.00658	-29.54479408
664	.001580	349.91	102.67	-15.67	8.53	24.30	42.63		0.00659	-37.86893463
665	.001590	353.15	103.19	-15.01	9.27	17.40	42.35		0.0066	-40.52087021
666	.001600	352.93	102.01	-17.17	5.13	9.23	44.99		0.00661	-29.98678398
667	.001610	343.28	101.27	-19.72	2.00	5.84	48.66		0.00662	-7.59264231
668	.001620	334.59	91.37	-16.53	3.36	7.83	52.18		0.00663	7.06668091
669	.001630	337.90	76.30	-6.76	8.06	11.02	53.75		0.00664	11.48657703
670	.001640	353.08	81.70	.88	11.98	12.49	51.76		0.00665	13.10720634
671	.001650	365.16	108.73	4.37	13.38	14.70	47.33		0.00666	20.40003586
672	.001660	371.86	131.10	7.09	10.28	20.08	43.44		0.00667	27.25087547
673	.001670	371.57	124.01	11.58	2.55	27.28	44.50		0.00668	29.31349373
674	.001680	367.44	98.02	15.10	-5.53	31.99	47.62		0.00669	21.87333488
675	.001690	359.78	75.86	17.11	-7.37	31.89	46.15		0.0067	9.42395878
676	.001700	356.24	79.18	16.23	-4.96	29.29	40.68		0.00671	2.64678431
677	.001710	355.58	97.43	10.58	-2.82	30.66	37.97		0.00672	8.39264965
678	.001720	355.07	105.26	5.35	-3.16	35.75	39.89		0.00673	11.63390732
679	.001730	351.90	99.49	6.35	-7.23	37.49	43.61		0.00674	4.41474295
680	.001740	348.95	101.86	9.28	-14.02	33.78	47.52		0.00675	-6.92965794
681	.001750	348.58	113.53	6.58	-15.03	30.03	49.96		0.00676	-12.38086319
682	.001760	351.46	120.84	-1.28	-7.23	29.80	45.11		0.00677	-17.09541893
683	.001770	350.87	109.98	-7.69	1.73	31.74	33.64		0.00678	-21.44165039
684	.001780	346.52	84.28	-11.20	5.77	30.57	28.05		0.00679	-23.13594437
685	.001790	335.32	65.23	-13.31	7.62	24.33	35.02		0.0068	-21.73631096
686	.001800	325.89	78.52	-15.97	9.83	18.95	40.78		0.00681	-19.82102203
687	.001810	323.24	103.04	-18.15	9.00	18.14	28.69		0.00682	-17.24275017
688	.001820	325.75	113.08	-17.66	7.62	18.71	6.36		0.00683	-17.61107445
689	.001830	326.78	115.08	-16.73	11.73	18.58	-1.07		0.00684	-19.60002708
690	.001840	318.97	122.39	-18.67	17.96	18.26	14.73		0.00685	-20.9996624
691	.001850	298.86	127.63	-22.79	20.57	16.25	34.87		0.00686	-15.91678047
692	.001860	279.93	127.56	-25.84	23.13	13.06	37.87		0.00687	-6.48766804
693	.001870	274.92	126.16	-24.81	27.58	12.47	28.94		0.00688	0.43683618
694	.001880	288.32	129.48	-19.65	30.17	18.53	28.67		0.00689	-2.21510172
695	.001890	301.88	130.22	-13.81	31.65	27.45	35.71		0.0069	-7.07698774
696	.001900	319.63	147.20	-11.20	36.64	32.04	35.31		0.00691	-4.79337454

	AE	AF	AG	AH	AI
647	43.89915085	39.6265831	64.59899902	41.68920135	33.14406967
648	46.403759	44.78313065	59.36878967	44.12014771	35.50134659
649	49.20302582	39.33192444	53.32826233	49.42402267	39.77391434
650	47.87705994	30.12380791	49.42402267	49.64501572	46.10910034
651	43.89915085	24.89359665	45.74077606	44.34114075	48.1717186
652	38.30061722	26.14590073	38.2269516	36.23799896	46.91941452
653	33.36506653	24.30427742	30.34480286	29.90281296	44.04648209
654	30.19747162	15.02249432	22.97830772	23.71495819	41.09988403
655	27.69286346	3.30976892	18.55841255	19.00040054	39.25825882
656	21.79966927	-0.88913274	15.1698246	15.46448421	40.65789413
657	15.39081955	-0.15248336	14.7278347	16.34846306	36.60632324
658	10.16060829	-0.29981324	12.66521645	18.11642265	27.10354424
659	4.41474295	-4.79337454	10.01327896	19.51605606	18.55841255
660	-4.64604473	-9.21327114	12.22322655	19.88438034	22.09432793
661	-12.52819347	-11.79154396	19.51605606	22.16799355	29.7548172
662	-12.82285309	-9.7289257	22.02066422	19.81071472	31.08145142
663	-5.89834881	-9.58159542	14.43317509	15.09615898	22.68364906
664	-1.03646266	-12.60185814	1.83647001	12.14956188	13.69652557
665	-1.47845232	-17.16908455	-3.83573031	12.51788616	8.83463955
666	-3.5410707	-16.0641098	-0.22614829	11.92856693	11.78123665
667	-2.06777191	-10.61290455	6.25636673	12.8862114	13.91752052
668	1.32081544	-5.751019	10.97092247	12.66521645	13.84385586
669	5.88804197	-4.27771997	14.2858448	15.53814888	14.2858448
670	11.63390732	-3.4674058	18.48474693	21.65233994	20.10537529
671	14.94882965	-0.594473	23.49396324	30.34480286	27.98752403
672	14.06484985	3.97275329	27.32453918	31.4497757	37.19564056
673	16.20113373	5.81437683	27.98752403	23.49396324	44.19380951
674	21.65233994	5.15139246	27.3982048	11.70757198	48.76103592
675	21.5050087	0.80516088	31.37611198	9.57128906	51.04465103
676	15.31715393	-1.92044199	36.38532639	16.64312363	54.21224213
677	10.52893353	0.1421764	36.82731628	25.18825722	50.4553299
678	9.71861839	6.4773612	30.34480286	27.98752403	43.01517105
679	7.36134052	7.95066023	25.92490578	26.21956635	37.93229294
680	0.28950629	2.79411435	25.48291588	22.38898849	41.54187393
681	-6.04567862	-4.64604473	26.51422501	23.49396324	45.22512054
682	-10.24458027	-6.26667356	23.27296829	24.08328247	44.34114075
683	-14.36981678	-4.13039017	16.86411858	21.35767937	34.76469803
684	-19.74735832	-5.01436949	13.62286091	19.07406616	24.15694809
685	-20.63133621	-12.08620358	14.06484985	25.04092598	15.31715393
686	-17.8320694	-15.32746124	9.86594868	32.99673843	13.25453568
687	-19.2317028	-13.70683289	0.28950629	37.19564056	18.26375198
688	-28.21882629	-10.1709156	-5.53002405	31.74443626	28.57684326
689	-36.8376236	-11.93887424	-3.5410707	21.57867432	30.71312714
690	-40.44720459	-16.0641098	1.46814537	12.66521645	25.04092598
691	-39.63689041	-18.86337852	7.95066023	9.86594868	19.58972168
692	-38.38458633	-14.07515717	19.44239044	11.3392477	24.81993103
693	-36.8376236	-5.01436949	35.50134659	16.93778229	29.90281296
694	-32.12306595	0.73149592	46.55109024	21.13668442	28.42951393
695	-24.24091911	-0.37347817	49.64501572	23.56762695	21.87333488
696	-16.21144104	-0.81546783	47.7297287	25.48291588	19.22139549

	AJ	AK	AL	AM	AN
647	39.54773331	53.28473282	68.79425049	28.6172142	43.68360519
648	26.99240685	46.41623306	56.38663864	45.97310257	56.0173645
649	13.92009926	34.37789154	22.04413223	53.94942856	65.69234467
650	6.0914855	13.99395466	7.49472761	52.472332	46.12081528
651	7.27316332	3.80198526	24.99832726	55.94350815	23.89050484
652	5.79606628	8.8241148	42.50192642	57.19903946	28.46950531
653	-7.05467749	12.51685715	37.77521515	49.59199142	50.18283081
654	-25.4445343	7.1993084	24.25977898	38.07063675	60.59636307
655	-26.18308258	3.28500128	20.93630981	36.44582748	57.34675217
656	-4.6174674	6.9038887	26.84469795	42.13265228	49.51813507
657	13.55082512	10.7443409	31.57140923	47.89332962	47.00707245
658	9.11953449	1.58633971	32.08839417	49.88740921	48.77958679
659	-3.73120928	-11.11669445	29.42961693	53.72786331	50.3305397
660	-9.63959694	-12.00295258	23.89050484	57.5683136	46.26852417
661	-6.24227428	0.99550092	16.50501823	58.67613602	42.20650482
662	-4.10048342	12.73842144	16.94814873	57.49446106	40.43399048
663	-7.12853241	12.81227684	22.11798859	57.12518692	43.75745773
664	-14.07088852	5.2790823	24.18592262	55.42652512	47.81947327
665	-15.54798508	0.10924275	21.45329475	53.06316757	52.25076675
666	-11.70753288	-0.03846694	21.82256889	53.13702393	55.42652512
667	-5.57758045	4.09740448	25.66302109	51.51221848	58.74999237
668	-0.62930572	10.00579262	26.54927826	44.86528015	60.07938004
669	1.58633971	12.88613129	25.66302109	43.97902298	59.63624954
670	-4.54361248	10.07964706	25.29374695	51.14294434	53.58015442
671	-13.11077499	6.01763058	14.73250294	55.05725098	47.15478134
672	-18.79759789	3.13729167	-0.92472512	48.55802536	41.76337814
673	-25.29682541	3.3588562	-0.18617664	37.03666687	42.94505692
674	-37.85214996	4.83595324	18.12982559	29.72503662	47.81947327
675	-36.96589279	4.31896925	24.18592262	30.24202156	51.65992737
676	-15.69569492	-0.48159602	6.68232441	32.75308609	50.18283081
677	1.88175917	-4.02662897	-19.53614616	33.12236023	51.06908798
678	-6.5376935	-1.58941877	-33.93784332	33.93476486	55.05725098
679	-21.75179291	1.29092038	-24.63213158	42.20650482	55.20495987
680	-21.75179291	-0.70316058	0.77393639	44.6437149	42.13265228
681	-9.19646835	-1.95869303	16.35730934	27.28782654	28.9126339
682	-1.07243478	2.62030768	15.76647091	0.3308073	39.10460281
683	5.57450151	10.37506676	6.9038887	-9.41803265	69.82821655
684	13.99395466	15.84032536	-0.33388633	-3.28808022	78.83850861
685	11.92601871	20.64089012	-5.57758045	-2.25411248	43.2404747
686	-4.39590311	25.81072998	1.43862998	-8.45792007	-9.78730679
687	-11.92909718	27.43553734	19.6807785	-3.87891912	-25.14911461
688	-2.992661	24.25977898	32.6053772	15.17563152	7.1993084
689	8.52869511	20.86245537	32.3099556	34.89487839	47.30249023
690	13.77238941	22.85653687	32.75308609	44.86528015	47.74562073
691	21.01016426	23.66893959	38.07063675	46.34237671	22.41340637
692	27.28782654	19.6807785	43.53589249	45.89925003	18.35139084
693	29.28190804	21.08402061	44.56986237	42.35421753	41.61566925
694	34.08247375	30.83285904	45.01298904	36.74124908	54.90954208
695	45.01298904	35.8549881	45.16070175	36.29811859	50.69981384
696	49.44428253	27.0662632	45.30841064	40.28628159	43.53589249

	AO	AP	AQ	AR	AS
647	48.85344315	359.3379211	83.98487091	41.36998749	46.47742462
648	56.09121704	355.9493408	47.7959938	45.76533127	46.33009338
649	55.94350815	349.9088135	13.6750536	44.53757858	47.50873184
650	47.30249023	351.013794	15.15215015	36.75365448	48.39271164
651	43.2404747	352.9290772	25.63953972	29.6327076	46.08454514
652	36.88895798	351.9714356	29.62770081	27.86474991	40.4614563
653	15.24948692	346.3728943	31.10479736	27.52098083	34.76469803
654	10.30121231	346.3728943	40.18894577	22.83097839	29.26438332
655	37.77521515	350.9401245	52.67041397	13.5983057	25.60569
656	63.55055618	350.5718079	65.9642868	5.56882715	23.7640686
657	59.19312286	344.8259277	74.30988312	3.35887885	22.56087303
658	44.86528015	344.1629334	74.01446533	3.35887885	19.29506111
659	38.29219818	348.8775024	72.31580353	-0.15248333	16.02924919
660	39.4000206	351.9714356	80.73525238	-7.88730192	18.06731224
661	36.44582748	349.3194885	93.0690155	-14.29615211	23.81317711
662	29.94660187	349.9088135	102.6701431	-15.67123127	24.30427742
663	26.18000412	353.1500549	103.1871338	-15.00824642	17.40432739
664	31.71911812	352.9290772	102.005455	-17.16908455	9.22751904
665	40.65555573	343.2789612	101.2669067	-19.72280312	5.83893204
666	47.96718597	334.5865173	91.3703537	-16.53065491	7.82788515
667	50.99523544	337.9014282	76.30396271	-6.75777292	11.02003288
668	50.3305397	353.076416	81.69536591	0.87882578	12.49333191
669	38.36605453	365.1574402	108.7262421	4.36563301	14.7032795
670	25.58916473	371.8609619	131.1042633	7.09123611	20.08082008
671	31.27598953	371.5663147	124.0141983	11.58479786	27.27543068
672	52.54618454	367.4410706	98.01728821	15.09615993	31.98998451
673	58.45457458	359.7799072	75.86083984	17.10966873	31.89176559
674	44.49600601	356.243988	79.18430328	16.22568893	29.28893661
675	32.01453781	355.5810242	97.42645264	10.57804298	30.66401672
676	36.74124908	355.0653687	105.2550659	5.3478322	35.74689865
677	46.63779831	351.8977661	99.49438477	6.3545866	37.49030304
678	53.58015442	348.9511719	101.8577423	9.27662849	33.78250122
679	52.472332	348.5828552	113.5268097	6.57558107	30.02558899
680	48.55802536	351.45578	120.8384399	-1.28201246	29.80459213
681	44.71757126	350.8664551	109.9817734	-7.69086218	31.74443626
682	44.71757126	346.5202332	84.2802887	-11.20222473	30.56579781
683	44.6437149	335.3231506	65.22573853	-13.31395245	24.32883263
684	46.7855072	325.894043	78.51960754	-15.96589088	18.95129204
685	45.0868454	323.242096	103.0394211	-18.15128326	18.14097595
686	37.33208466	325.7467041	113.0836792	-17.66018486	18.70574188
687	25.81072998	326.7780151	115.0777588	-16.72709465	18.58296585
688	21.82256889	318.9695435	122.389389	-18.66693878	18.26375198
689	22.41340637	298.8590088	127.6330872	-22.79217529	16.25024414
690	21.01016426	279.927124	127.559227	-25.83699226	13.05809593
691	18.05597115	274.9179077	126.1559906	-24.80568314	12.4687767
692	21.74871254	288.3249207	129.4794617	-19.6491375	18.53385544
693	23.15195465	301.8792725	130.2180023	-13.80505276	27.44731331
694	14.2893734	319.6325073	147.2046204	-11.20222378	32.03909683
695	8.8241148	336.9437866	166.6284485	-10.56379509	31.69532585
696	22.11798859	335.6178284	147.5000458	-7.27342796	30.81134605

	AT	AU
647	53.8755722	40.38475418
648	43.26509094	52.69389343
649	23.44737434	58.52842712
650	9.19338894	48.6318779
651	12.02449226	41.02482986
652	19.04070282	40.85250092
653	14.4124651	38.34143829
654	2.0048511	36.32273865
655	-0.65392381	43.85593033
656	9.71037292	51.73377991
657	18.62219238	51.36450958
658	14.2647562	47.84409332
659	4.86057091	47.45019913
660	0.74931842	47.74562073
661	3.75274825	45.77615738
662	8.52869606	42.62501907
663	9.26724434	42.35421753
664	5.13137197	44.9883728
665	2.00485086	48.65649796
666	3.35885644	52.1769104
667	8.06094837	53.75248337
668	11.97525501	51.75839996
669	13.37849712	47.32711029
670	10.27659416	43.43741989
671	2.54645276	44.49600601
672	-5.52834368	47.62252808
673	-7.37471533	46.14543152
674	-4.96212387	40.68017197
675	-2.82033372	37.97216034
676	-3.16498876	39.89238739
677	-7.22700548	43.60974884
678	-14.02165222	47.52405548
679	-15.03100109	49.96126556
680	-7.22700548	45.11146545
681	1.73404932	33.63934326
682	5.77144814	28.05099297
683	7.61781883	35.01796722
684	9.83346462	40.77864456
685	8.99644279	28.69106865
686	7.61781883	6.36228609
687	11.72907257	-1.07243454
688	17.95749855	14.73250294
689	20.56703568	34.87025833
690	23.12733841	37.87368774
691	27.58324623	28.93725204
692	30.16816521	28.6664505
693	31.64526367	35.70727921
694	36.64277267	35.31338882
695	42.00955963	31.94068146
696	40.60631943	35.31338882

	A	B	C	D	E	F	G	H	I	J	K
697								.001910	-7.08	45.01	-24.24
698								.001920	-4.79	49.44	-16.21
699								.001930	3.68	41.54	-7.37
700								.001940	8.83	27.07	3.97
701								.001950	14.80	15.47	11.63
702								.001960	26.22	7.42	14.14
703								.001970	37.78	6.02	19.30
704								.001980	38.01	7.49	30.05
705								.001990	32.70	2.77	38.15
706								.002000	32.78	-10.75	41.32
707								.002010	40.14	-25.44	43.83
708								.002020	46.26	-33.27	47.66
709								.002030	45.96	-29.58	48.47
710								.002040	37.56	-25.30	45.23
711								.002050	29.31	-26.77	41.25
712								.002060	26.07	-28.18	37.78
713								.002070	29.39	-20.42	33.59
714								.002080	28.43	-12.00	24.75
715								.002090	21.58	-12.08	13.18
716								.002100	14.80	-20.27	6.99
717								.002110	15.46	-21.90	7.95
718								.002120	16.20	-16.58	10.38
719								.002130	17.16	-11.63	9.42
720								.002140	20.03	-13.78	9.13
721								.002150	27.25	-15.10	16.20
722								.002160	36.61	-14.88	26.44
723								.002170	51.12	-16.51	31.89
724								.002180	66.59	-22.19	35.13
725								.002190	76.97	-20.72	41.54
726								.002200	77.79	-14.51	49.35
727								.002210	78.15	-12.15	53.25
728								.002220	83.60	-14.81	52.74
729								.002230	89.28	-10.23	54.51
730								.002240	90.01	3.06	58.34
731								.002250	93.84	14.58	60.99
732								.002260	101.36	11.04	60.25
733								.002270	103.94	-1.96	56.79
734								.002280	91.56	-11.26	50.16
735								.002290	72.19	-7.50	40.22
736								.002300	58.19	-.04	31.01
737								.002310	56.79	-.11	27.10
738								.002320	51.49	-8.09	25.48
739								.002330	37.71	-12.89	24.30
740								.002340	26.37	-13.92	24.23
741								.002350	23.86	-7.94	24.75
742								.002360	20.84	-3.14	22.39
743								.002370	24.60	-7.35	17.45
744								.002380	32.26	-14.07	13.62
745								.002390	30.05	-12.74	12.52
746								.002400	13.70	-9.64	11.56

	L	M	N	O	P	Q	R	S	T
697	35.85	-.37	45.16	49.65	36.30	23.57	50.70	21.87	8.82
698	27.07	-.82	45.31	47.73	40.29	25.48	43.54	19.22	22.12
699	8.82	3.24	42.65	45.96	40.29	35.06	41.91	21.65	36.15
700	-6.98	11.78	42.13	45.52	31.50	46.11	39.40	29.90	35.34
701	-10.16	19.59	45.46	51.71	22.63	55.39	37.18	35.28	27.14
702	-3.88	25.48	48.11	60.92	21.90	62.46	37.63	36.46	27.58
703	-.56	26.96	42.43	66.00	28.17	69.02	39.55	33.73	28.91
704	-5.28	30.05	32.46	66.59	31.87	70.71	36.45	34.69	20.79
705	-14.66	35.35	24.48	72.55	32.31	71.16	32.75	34.69	10.52
706	-29.43	40.22	24.11	81.32	36.15	73.95	31.35	31.38	13.33
707	-40.58	38.89	24.26	83.75	44.27	80.58	33.49	27.55	21.01
708	-31.13	34.76	20.79	80.07	44.27	85.52	33.79	31.52	29.36
709	-9.34	30.12	13.85	79.41	30.83	88.61	30.24	38.45	36.37
710	2.69	24.97	9.19	82.65	13.85	86.92	25.44	45.37	40.58
711	2.40	16.20	5.87	81.76	6.53	81.69	26.55	50.46	38.22
712	-1.07	11.04	7.13	73.66	10.45	70.49	33.64	57.16	35.41
713	-2.70	10.16	12.44	63.94	18.72	57.75	42.95	60.18	30.46
714	-8.97	11.49	18.06	58.48	27.80	49.20	46.19	59.59	26.40
715	-22.05	7.66	18.28	53.62	36.89	46.62	46.49	57.75	22.19
716	-22.86	1.39	18.94	42.72	44.57	39.99	47.45	58.63	18.87
717	-5.80	.88	23.82	27.69	49.44	25.92	50.11	63.13	14.81
718	7.49	7.95	28.91	12.67	47.67	9.57	46.56	71.08	13.77
719	3.65	10.09	25.37	.07	38.88	2.65	38.29	74.40	14.88
720	-6.39	4.19	14.66	-8.99	29.73	6.99	28.47	79.04	19.75
721	-9.79	.14	4.10	-8.55	30.61	22.39	23.37	84.41	24.48
722	-8.61	10.90	3.14	.29	39.03	38.01	20.79	87.88	27.51
723	-7.50	23.64	11.93	11.63	43.46	50.23	19.31	87.66	24.85
724	-4.47	23.20	23.67	19.30	35.49	59.44	15.54	87.51	20.35
725	2.18	12.52	27.88	26.07	17.91	69.24	10.01	81.98	11.78
726	5.50	11.19	24.63	42.72	-3.36	82.65	3.58	79.26	4.32
727	-4.62	16.27	6.02	71.45	-11.86	101.65	3.80	81.47	.26
728	-22.64	21.14	-19.91	92.89	-2.11	113.29	10.15	84.49	.48
729	-28.40	22.46	-26.63	103.49	7.35	115.06	16.14	79.99	-2.99
730	-14.96	25.41	-6.02	117.71	4.10	116.31	13.40	74.76	-13.55
731	.63	29.61	10.89	131.12	-3.58	119.55	7.49	71.16	-30.69
732	-.19	36.09	6.61	130.01	-4.17	113.81	5.35	69.09	-37.34
733	-11.86	38.15	-5.06	120.51	-2.92	103.72	9.78	63.64	-27.96
734	-12.00	36.24	-.41	114.76	-13.18	94.43	12.81	59.37	-15.99
735	-.92	27.77	10.23	110.79	-27.00	88.76	11.04	55.46	-14.96
736	3.06	20.11	7.94	98.34	-20.27	81.62	.33	49.13	-18.21
737	-10.82	18.63	-8.75	78.01	7.20	70.86	-12.30	35.65	-15.10
738	-31.50	24.01	-25.00	60.55	23.30	56.05	-3.88	21.73	-3.14
739	-30.32	30.05	-48.63	54.80	14.73	45.52	23.37	14.88	3.21
740	-6.98	32.78	-72.05	53.33	1.29	44.05	33.71	18.56	-5.80
741	11.78	29.68	-60.97	45.67	4.98	47.80	20.12	19.30	-24.71
742	14.51	24.38	-17.54	34.03	20.05	43.53	1.07	10.60	-24.56
743	2.77	18.19	7.27	29.61	31.05	33.44	-5.43	2.50	-2.99
744	-10.08	15.91	.55	32.55	33.27	27.40	5.57	9.72	18.50
745	-10.23	17.23	-3.95	32.55	31.05	31.30	27.73	17.60	27.29
746	-.78	16.35	6.17	22.61	22.86	30.71	36.59	13.84	33.64

	U	V	W	X	Y	Z	AA	AB	AC	AD
697	.001910	336.94	166.63	-10.56	42.01	31.70	31.94		0.00692	3.67809367
698	.001920	335.62	147.50	-7.27	40.61	30.81	35.31		0.00693	8.83463955
699	.001930	318.82	101.86	-.15	31.01	34.22	39.45		0.00694	14.80149937
700	.001940	314.48	79.78	8.20	20.74	40.51	35.41		0.00695	26.21956635
701	.001950	330.61	85.17	15.34	16.92	47.46	28.99		0.00696	37.7849617
702	.001960	351.09	85.76	21.95	17.22	53.28	29.04		0.00697	38.00595474
703	.001970	363.98	72.76	28.01	15.96	56.25	32.21		0.00698	32.70207977
704	.001980	371.12	60.79	32.70	11.56	57.33	29.70		0.00699	32.77574539
705	.001990	372.82	51.19	35.40	4.20	59.47	25.20		0.007	40.14223862
706	.002000	370.61	46.02	38.10	-5.36	62.22	26.94		0.00701	46.25642776
707	.002010	363.09	46.32	40.95	-13.92	63.96	32.93		0.00702	45.9617691
708	.002020	358.45	52.23	42.89	-14.54	65.70	35.81		0.00703	37.56396484
709	.002030	357.64	56.07	41.52	-8.36	68.82	32.48		0.00704	29.31349373
710	.002040	357.94	53.56	35.92	-4.47	71.65	26.62		0.00705	26.07223511
711	.002050	357.86	46.47	28.92	-6.17	71.30	23.77		0.00706	29.38715744
712	.002060	355.29	37.09	24.97	-7.37	67.10	26.50		0.00707	28.42951393
713	.002070	347.40	19.88	24.38	-3.56	60.62	30.71		0.00708	21.57867432
714	.002080	340.77	5.11	21.55	-.97	55.76	33.47		0.00709	14.80149937
715	.002090	336.06	6.14	14.14	-5.28	52.67	35.19		0.0071	15.46448421
716	.002100	339.52	23.13	7.73	-8.06	47.12	36.96		0.00711	16.20113373
717	.002110	345.64	35.39	8.10	-1.29	38.91	38.12		0.00712	17.15877724
718	.002120	352.41	35.24	11.51	6.61	31.11	36.00		0.00713	20.03170967
719	.002130	356.10	27.71	12.22	5.80	25.70	30.69		0.00714	27.25087547
720	.002140	357.20	17.44	11.12	-1.84	25.68	25.98		0.00715	36.60632324
721	.002150	361.55	5.03	14.53	-6.93	32.75	26.16		0.00716	51.11831665
722	.002160	366.56	-3.83	24.65	-6.78	42.06	29.11		0.00717	66.58795166
723	.002170	360.81	-4.94	35.55	-4.03	49.84	29.21		0.00718	76.97470856
724	.002180	359.41	.82	41.64	-1.00	55.42	23.79		0.00719	77.78502655
725	.002190	377.31	-12.99	43.68	3.11	59.10	13.23		0.0072	78.15335083
726	.002200	405.01	-98.88	46.11	5.21	68.21	1.51		0.00721	83.60455322
727	.002210	414.29	-243.56	49.23	-3.58	84.86	-2.60		0.00722	89.27675629
728	.002220	405.30	-284.11	52.49	-19.12	96.89	2.84		0.00723	90.01340485
729	.002230	394.40	-154.79	55.42	-21.75	99.52	6.83		0.00724	93.84397888
730	.002240	392.19	-22.44	57.92	-5.97	102.93	1.32		0.00725	101.3578033
731	.002250	397.64	-14.91	61.48	8.70	107.28	-8.93		0.00726	103.9360809
732	.002260	406.85	-55.60	65.90	5.82	104.30	-12.05		0.00727	91.5603714
733	.002270	418.71	-40.02	66.29	-6.29	95.96	-7.03		0.00728	72.18648529
734	.002280	428.36	5.99	59.32	-7.89	89.52	-5.45		0.00729	58.19015121
735	.002290	420.33	-10.99	46.72	.60	85.00	-10.30		0.0073	56.7905159
736	.002300	397.20	-78.94	36.43	3.65	76.36	-12.72		0.00731	51.48664093
737	.002310	374.37	-117.34	34.18	-6.56	61.51	-6.73		0.00732	37.71129608
738	.002320	365.67	-124.88	33.66	-21.53	46.11	5.43		0.00733	26.36689568
739	.002330	363.09	-156.93	30.69	-30.61	38.40	13.77		0.00734	23.86228752
740	.002340	362.28	-172.88	27.79	-30.98	38.64	9.73		0.00735	20.84202385
741	.002350	366.93	-120.08	26.10	-19.04	37.59	.13		0.00736	24.59893608
742	.002360	379.37	-48.66	22.54	-2.06	29.39	-1.15		0.00737	32.26008987
743	.002370	395.29	-24.88	20.08	.90	21.85	7.54		0.00738	30.05014229
744	.002380	401.62	-32.85	20.60	-7.87	23.22	19.11		0.00739	13.69652557
745	.002390	390.13	-27.54	19.93	-8.97	27.15	28.69		0.0074	5.88804197
746	.002400	381.14	-7.67	13.87	-1.42	22.39	31.03		0.00741	17.01144791

	AE	AF	AG	AH	AI
697	-7.37164736	3.23610401	45.9617691	35.05935669	21.65233994
698	3.97275329	11.78123665	45.51977921	46.10910034	29.90281296
699	11.63390732	19.58972168	51.70763397	55.39088058	35.28035355
700	14.13851547	25.48291588	60.91575241	62.46271515	36.458992
701	19.29506111	26.9562149	65.99863434	69.01889801	33.73339081
702	30.05014229	30.05014229	66.58795166	70.71318817	34.69103241
703	38.15328598	35.35401917	72.55480957	71.15518188	34.69103241
704	41.32087708	40.21590424	81.32093811	73.95444489	31.37611198
705	43.82548523	38.88993454	83.75188446	80.58428955	27.54553413
706	47.65606308	34.76469803	80.06863403	85.51984406	31.52344131
707	48.46637726	30.12380791	79.40565491	88.61376953	38.44794464
708	45.22512054	24.96726227	82.64691162	86.91947937	45.37245178
709	41.24721527	16.20113373	81.76293182	81.68926239	50.4553299
710	37.7849617	11.04458809	73.65979004	70.49219513	57.15884018
711	33.58605957	10.16060829	63.93601608	57.74816132	60.17910385
712	24.74626732	11.48657703	58.48480988	49.20302582	59.58978271
713	13.18087101	7.65600061	53.6229248	46.62475586	57.74816132
714	6.99301577	1.39448035	42.72051239	39.99491119	58.63214111
715	7.95066023	0.87882584	27.69286346	25.92490578	63.1257019
716	10.38160324	7.95066023	12.66521645	9.57128906	71.08151245
717	9.42395878	10.08694363	0.06851147	2.64678431	74.3964386
718	9.12929916	4.193748	-8.99227619	6.99301577	79.03733063
719	16.20113373	0.1421764	-8.55028629	22.38898849	84.41487122
720	26.44055939	10.8972578	0.28950629	38.00595474	87.87712097
721	31.89176559	23.64129257	11.63390732	50.23433685	87.65612793
722	35.13302231	23.19930267	19.29506111	59.44245529	87.50879669
723	41.54187393	12.51788616	26.07223511	69.23989105	81.98392487
724	49.35035706	11.19191742	42.72051239	82.64691162	79.25832367
725	53.25460052	16.27479935	71.44983673	101.6524658	81.46826935
726	52.73894501	21.13668442	92.88633728	113.2915268	84.48853302
727	54.5069046	22.46265411	103.4940872	115.0594864	79.99497223
728	58.33747864	25.40925026	117.7114258	116.3117905	74.76476288
729	60.98941803	29.60815239	131.1184387	119.5530472	71.15518188
730	60.25276947	36.09066772	130.0134735	113.8071823	69.09255981
731	56.7905159	38.15328598	120.5106888	103.7150803	63.64135361
732	50.16067123	36.23799896	114.7648239	94.43330383	59.36878967
733	40.21590424	27.76652908	110.7869186	88.76110077	55.4645462
734	31.0077858	20.10537529	98.33753967	81.61560059	49.1293602
735	27.10354424	18.63207626	78.00601959	70.86051941	35.64867783
736	25.48291588	24.00961685	60.54742813	56.05386734	21.72600365
737	24.30427742	30.05014229	54.80156326	45.51977921	14.87516499
738	24.2306118	32.77574539	53.32826233	44.04648209	18.55841255
739	24.74626732	29.68181801	45.66711044	47.80339432	19.29506111
740	22.38898849	24.37794113	34.02804947	43.53082657	10.60259819
741	17.45343781	18.19008636	29.60815239	33.43872833	2.4994545
742	13.62286091	15.90647411	32.55474854	27.3982048	9.71861839
743	12.51788616	17.23244286	32.55474854	31.30244637	17.60076714
744	11.56024265	16.34846306	22.60998344	30.71312714	13.84385586
745	8.98196888	8.31898499	12.22322655	20.62103081	-0.88913274
746	10.01327896	3.01510906	7.87699509	8.68730927	-8.99227619

	AJ	AK	AL	AM	AN
697	41.5418129	8.8241148	42.64963531	40.28628159	41.91108704
698	27.0662632	-6.98082256	42.13265228	31.49755287	39.4000206
699	15.47105122	-10.15658092	45.45611954	22.63497162	37.18437576
700	7.42087269	-3.87891912	48.11489487	21.89642334	37.62750626
701	6.01763058	-0.55545086	42.42807007	28.17408562	39.54773331
702	7.49472761	-5.28216124	32.4576683	31.86682701	36.44582748
703	2.76801729	-14.66172695	24.48134232	32.3099556	32.75308609
704	-10.74742031	-29.4326973	24.11206818	36.1504097	31.34984398
705	-25.4445343	-40.58477783	24.25977898	44.27444077	33.49163437
706	-33.27314758	-31.1313591	20.78860092	44.27444077	33.78705215
707	-29.58040619	-9.3441782	13.84624481	30.83285904	30.24202156
708	-25.29682541	2.69416237	9.19338894	13.84624481	25.44145584
709	-26.77392197	2.39874315	5.86992073	6.53461456	26.54927826
710	-28.17716408	-1.07243478	7.12545347	10.4489212	33.63934326
711	-20.42240524	-2.69724154	12.4430027	18.72066498	42.94505692
712	-12.00295258	-8.97490406	18.05597115	27.80481148	46.19466782
713	-12.07680702	-22.0472126	18.27753639	36.88895798	46.49008942
714	-20.27469635	-22.85961533	18.94222832	44.56986237	47.45019913
715	-21.8995018	-5.79914522	23.81664848	49.44428253	50.10897446
716	-16.58195305	7.49472761	28.9126339	47.67176437	46.56394196
717	-11.63367844	3.65427542	25.36760139	38.88303757	38.29219818
718	-13.77546883	-6.38998413	14.65864754	29.72503662	28.46950531
719	-15.10485649	-9.78730679	4.09740448	30.6112957	23.3735199
720	-14.88329124	-8.60562897	3.13729167	39.03074646	20.78860092
721	-16.5080986	-7.49780655	11.92601871	43.46203995	19.31150436
722	-22.19492149	-4.46975803	23.66893959	35.48571396	15.54490662
723	-20.71782494	2.17717862	27.87866592	17.90826225	10.00579262
724	-14.51401711	5.50064659	24.62905312	-3.36193514	3.58042073
725	-12.15066242	-4.6174674	6.01763058	-11.85524273	3.80198526
726	-14.8094368	-22.63805008	-19.9054203	-2.10640264	10.15350246
727	-10.23043633	-28.39872932	-26.62621307	7.34701777	16.13574409
728	3.06343675	-14.95714664	-6.02070951	4.09740448	13.40311527
729	14.58479309	0.62622672	10.89205074	-3.58349967	7.49472761
730	11.03976059	-0.18617664	6.60846949	-4.17433834	5.35293722
731	-1.95869303	-11.85524273	-5.06059647	-2.91880608	9.78422832
732	-11.2644043	-12.00295258	-0.40774119	-13.18463039	12.81227684
733	-7.49780655	-0.92472512	10.22735691	-26.99548721	11.03976059
734	-0.03846694	3.06343675	7.93785667	-20.27469635	0.3308073
735	-0.11232179	-10.82127476	-8.75333881	7.1993084	-12.29837227
736	-8.08864498	-31.50063324	-25.00140572	23.29966545	-3.87891912
737	-12.8892107	-30.31895447	-48.63495636	14.73250294	23.3735199
738	-13.92317867	-6.98082256	-72.04694366	1.29092038	33.71319962
739	-7.94093561	11.77830887	-60.96871567	4.98366261	20.12390709
740	-3.14037061	14.51093864	-17.54206657	20.05005264	1.06935585
741	-7.35009718	2.76801729	7.27316332	31.05442429	-5.42987108
742	-14.07088852	-10.08272648	0.55237186	33.27006912	5.57450151
743	-12.74150085	-10.23043633	-3.95277381	31.05442429	27.73095703
744	-9.63959694	-0.77701545	6.16534042	22.85653687	36.59353638
745	-6.61154842	0.92164612	13.03384113	12.22143841	25.51531029
746	1.36477518	-21.38251877	15.02792263	7.64243746	9.11953449

	AO	AP	AQ	AR	AS
697	36.1504097	318.8222046	101.8577423	-0.15248322	34.2244873
698	35.33800507	314.4759827	79.77514648	8.19620991	40.5105629
699	27.14011765	330.6086121	85.16654968	15.34170914	47.45962143
700	27.58324623	351.0874634	85.75738525	21.9469986	53.27915192
701	28.9126339	363.9788208	72.75893402	28.01207924	56.25030899
702	20.78860092	371.1243286	60.79444885	32.70207977	57.33072281
703	10.5227766	372.8186035	51.19331741	35.40312958	59.46700668
704	13.32926083	370.6086731	46.02347565	38.10417557	62.21716309
705	21.01016426	363.0948486	46.31889725	40.9525528	63.96057129
706	29.35576248	358.453949	52.22728348	42.89239502	65.70397186
707	36.37197495	357.6436462	56.06773758	41.51731873	68.82245636
708	40.58169937	357.9382935	53.55667114	35.91878128	71.64627838
709	38.21834564	357.864624	46.46660614	28.92061424	71.30250549
710	35.41186142	355.2863464	37.08703995	24.96726227	67.10360718
711	30.4635849	347.4042053	19.87886047	24.37794113	60.62109375
712	26.40156937	340.774353	5.10789108	21.55411911	55.75920486
713	22.19184303	336.0598145	6.14185905	14.13851547	52.66527939
714	18.86837387	339.5220642	23.12847328	7.72966528	47.11585617
715	14.80635738	345.636261	35.38837814	8.09799004	38.91448975
716	13.77238941	352.4134216	35.24066925	11.51113224	31.10600662
717	14.88021278	356.0966797	27.70747566	12.22322655	25.70391083
718	19.75463295	357.2016296	17.44165039	11.1182518	25.67935753
719	24.48134232	361.5478821	5.03403616	14.53139496	32.75119019
720	27.50939178	366.5570984	-3.82854557	24.64804649	42.05752563
721	24.85061646	360.8112183	-4.93636847	35.550457	49.84145737
722	20.34547043	359.4115906	0.82430983	41.64009094	55.41543579
723	11.77830887	377.3121643	-12.98654652	43.67815781	59.0986824
724	4.31896925	405.0101929	-98.87973785	46.10910034	68.20858002
725	0.25695246	414.2919617	-243.5613861	49.22758484	84.8568573
726	0.478517	405.3048401	-284.1076965	52.49339294	96.88880157
727	-2.992661	394.4024353	-154.7878571	55.41543961	99.51618195
728	-13.55390453	392.1924744	-22.43996811	57.92004395	102.9293289
729	-30.68822861	397.6437073	-14.90677261	61.48051453	107.2755585
730	-37.33516693	406.8518066	-55.60079575	65.90041351	104.3044052
731	-27.95559883	418.711853	-40.01742172	66.29329681	95.95570374
732	-15.99111462	428.361969	5.9941492 1	59.31967926	89.52230835
733	-14.95714664	420.332489	-10.99246597	46.72297287	85.00418854
734	-18.20676041	397.2016907	-78.9389267	36.4344368	76.36083221
735	-15.10485649	374.3655701	-117.3434448	34.17537689	61.50507355
736	-3.14037061	365.6730957	-124.8766403	33.65972519	46.10910034
737	3.21114635	363.0948486	-156.9296417	30.68857193	38.39883423
738	-5.79914522	362.2845154	-172.8822937	27.79108429	38.64438629
739	-24.70598602	366.925415	-120.0760803	26.09679031	37.58852386
740	-24.55827713	379.3747864	-48.65843964	22.53631783	29.38715744
741	-2.992661	395.2864075	-24.87717819	20.08082008	21.84877777
742	18.49909973	401.6216126	-32.85350037	20.5964756	23.22385788
743	27.28782654	390.1298828	-27.53595161	19.93349075	27.15265465
744	33.63934326	381.1427612	-7.66899776	13.86841011	22.38898849
745	33.78705215	386.0046387	-3.08999705	7.72966528	10.6517086
746	25.95843887	391.8978272	-12.32185364	10.01327896	2.52400947

	AT	AU
697	31.00518799	39.44926071
698	20.73936462	35.4118576
699	16.92353058	28.98648834
700	17.21895027	29.03572464
701	15.96341705	32.211483
702	11.55674458	29.70041847
703	4.19587755	25.19527245
704	-5.35601664	26.94317245
705	-13.92317772	32.92541504
706	-14.53863525	35.8057518
707	-8.35944653	32.48228455
708	-4.46975803	26.62313271
709	-6.16841936	23.76741219
710	-7.37471533	26.50004196
711	-3.55888128	30.7097683
712	-0.97396183	33.46701813
713	-5.28216124	35.19029617
714	-8.06402779	36.96281052
715	-1.29399955	38.11987305
716	6.60846949	36.00269699
717	5.79606628	30.68515015
718	-1.83560181	25.98305893
719	-6.93158627	26.15538597
720	-6.78387642	29.10957909
721	-4.02662897	29.20805359
722	-0.99857998	23.79203033
723	3.11267328	13.23078823
724	5.20522738	1.51248491
725	-3.58349967	-2.59876823
726	-19.11763573	2.84187222
727	-21.75179291	6.83003378
728	-5.97147322	1.31553841
729	8.7010231	-8.92566681
730	5.82068443	-12.05218887
731	-6.29151058	-7.03005886
732	-7.89169931	-5.45448923
733	0.6016084	-10.30429077
734	3.65427542	-12.71688271
735	-6.56231165	-6.73464012
736	-21.53022766	5.42679214
737	-30.61437416	13.77238941
738	-30.9836483	9.73499203
739	-19.04378128	0.13386123
740	-2.0571661	-1.14628959
741	0.89702779	7.54396391
742	-7.86708117	19.11455727
743	-8.97490406	28.69106865
744	-1.41709065	31.02980614
745	2.44797969	23.84126663
746	-1.66327369	14.2401371

	A	B	C	D	E	F	G	H	I	J	K
747								.002410	5.89	-6.61	8.98
748								.002420	17.01	1.36	10.01
749								.002430	29.76	17.91	17.38
750								.002440	24.23	26.55	23.86
751								.002450	15.46	21.60	20.62
752								.002460	19.74	12.66	11.34
753								.002470	39.18	8.09	7.58
754								.002480	56.86	1.36	17.31
755								.002490	62.32	-.26	33.88
756								.002500	60.18	8.90	44.19
757								.002510	61.73	23.15	46.11
758								.002520	63.49	29.87	46.40
759								.002530	61.87	32.09	48.47
760								.002540	59.37	35.56	52.74
761								.002550	63.35	38.59	57.75
762								.002560	66.59	23.89	57.60
763								.002570	62.83	-11.56	48.54
764								.002580	51.19	-30.47	36.83
765								.002590	42.43	-2.84	35.43
766								.002600	41.69	32.68	44.27
767								.002610	43.60	38.44	50.68
768								.002620	37.86	30.09	47.36
769								.002630	28.43	36.52	37.56
770								.002640	22.98	48.26	28.36
771								.002650	27.10	47.67	26.37
772								.002660	31.23	40.73	31.23
773								.002670	27.10	42.80	30.86
774								.002680	14.06	50.04	23.27
775								.002690	3.24	52.92	19.74
776								.002700	1.47	51.59	28.13
777								.002710	3.53	54.02	37.49
778								.002720	.73	58.45	35.21
779								.002730	-.01	58.75	22.98
780								.002740	9.72	52.10	18.04
781								.002750	22.98	47.52	25.78
782								.002760	19.81	48.11	38.01
783								.002770	5.00	46.34	45.67
784								.002780	1.91	41.02	49.20
785								.002790	20.55	47.38	51.56
786								.002800	40.66	49.52	56.72
787								.002810	50.38	21.67	61.51
788								.002820	50.68	-3.21	62.61
789								.002830	46.18	18.94	57.45
790								.002840	44.78	56.98	51.56
791								.002850	51.12	67.39	47.44
792								.002860	54.21	59.93	45.67
793								.002870	50.16	58.75	40.51
794								.002880	43.09	61.04	34.10
795								.002890	38.96	60.67	27.40
796								.002900	32.19	59.64	23.27

	L	M	N	O	P	Q	R	S	T
747	.92	8.32	13.03	12.22	12.22	20.62	25.52	-.89	33.79
748	-21.38	3.02	15.03	7.88	7.64	8.69	9.12	-8.99	25.96
749	-69.91	3.60	20.27	9.50	14.58	6.77	6.83	-5.01	14.58
750	-95.61	8.98	29.13	11.04	24.04	9.64	14.44	6.48	14.95
751	-52.11	12.37	31.28	11.56	27.73	11.78	19.98	11.04	17.76
752	11.48	10.97	24.48	11.85	26.84	12.00	15.25	9.28	3.21
753	24.26	4.71	13.62	12.96	24.19	11.56	5.13	6.55	-24.41
754	2.84	5.45	3.88	16.05	17.61	9.72	-8.09	10.16	-41.99
755	-7.79	15.32	-1.22	23.64	9.34	13.70	-15.47	17.53	-42.43
756	-6.09	28.21	4.47	32.26	2.47	21.95	-21.38	25.41	-28.25
757	-1.22	31.23	13.11	36.97	.77	29.68	-24.12	29.02	-24.12
758	16.87	29.09	17.32	36.53	2.40	29.90	-16.14	29.76	-60.16
759	38.22	29.17	14.73	37.12	4.10	27.99	4.84	30.05	-120.50
760	38.66	37.93	13.11	41.76	4.10	26.15	24.92	31.97	-135.93
761	19.61	48.47	14.14	47.88	-6.09	31.60	30.24	32.55	-90.29
762	8.53	53.25	16.36	50.53	-38.00	39.18	15.84	36.02	-38.30
763	14.95	50.38	15.62	48.02	-52.92	42.87	-1.88	39.48	-24.26
764	22.12	45.96	16.87	45.08	-12.74	39.33	-15.77	42.72	-53.51
765	18.87	40.66	19.53	42.87	30.98	33.73	-35.49	44.41	-92.58
766	15.84	38.89	6.98	39.63	24.85	29.61	-47.82	46.11	-71.97
767	17.83	40.95	-19.76	34.18	.63	33.00	-19.46	43.83	-3.14
768	23.96	43.53	-18.35	29.24	7.20	35.94	29.43	42.35	41.76
769	38.51	41.54	17.10	24.23	34.75	33.44	48.11	39.41	38.81
770	50.48	38.23	49.44	17.38	52.32	27.47	33.49	36.75	38.14
771	45.01	33.59	54.17	11.27	59.41	26.59	27.73	33.37	38.81
772	33.05	33.22	45.68	4.41	55.94	27.18	38.22	35.06	-17.54
773	29.06	34.40	39.25	.66	25.52	26.74	30.69	33.88	-90.51
774	31.28	33.00	40.29	3.53	-14.81	22.68	-6.91	31.23	-75.07
775	31.72	24.60	39.40	7.73	-12.67	22.54	-22.34	32.26	-1.96
776	34.89	20.99	39.33	7.36	27.07	28.58	4.84	38.01	39.33
777	41.25	23.27	40.66	8.61	40.43	37.71	28.99	37.56	35.56
778	43.09	26.74	42.50	13.92	12.81	41.84	13.18	31.30	36.00
779	37.04	20.03	39.33	17.09	-4.62	44.12	-22.27	27.91	42.65
780	33.20	8.98	32.75	18.78	6.24	46.11	-42.87	36.61	26.55
781	35.85	2.65	25.96	25.78	16.06	50.38	-41.62	49.06	2.18
782	40.43	7.36	23.82	37.78	15.62	52.22	-30.32	56.64	2.92
783	40.06	16.27	32.46	47.58	19.31	54.58	-6.54	55.69	9.34
784	36.67	21.73	65.47	52.89	27.58	56.94	30.17	52.08	13.40
785	38.44	19.81	101.36	53.03	31.72	60.84	74.55	51.12	38.81
786	49.30	19.88	87.11	48.76	39.25	57.23	88.44	55.69	73.08
787	61.85	25.85	33.12	45.30	49.59	50.68	56.31	59.52	76.48
788	76.40	36.31	7.72	47.80	42.43	47.29	22.86	60.18	55.94
789	78.47	43.46	6.90	51.12	28.54	50.68	31.05	57.90	42.65
790	52.18	47.73	7.49	48.32	37.04	51.34	52.40	58.71	46.05
791	31.28	47.58	26.18	42.65	71.31	51.27	48.41	56.64	46.05
792	46.27	44.27	62.00	41.25	92.50	52.44	24.78	52.15	40.14
793	69.39	36.02	80.02	44.34	75.37	55.24	24.19	44.56	33.34
794	64.81	27.25	70.94	44.05	52.18	54.14	50.04	40.36	30.76
795	27.95	22.83	57.42	36.75	50.18	47.44	68.06	36.97	27.88
796	-1.81	26.07	56.98	27.25	52.55	38.82	62.74	35.50	29.87

	U	V	W	X	Y	Z	AA	AB	AC	AD
747	.002410	386.00	-3.09	7.73	2.45	10.65	23.84		0.00742	29.75548172
748	.002420	391.90	-12.32	10.01	-1.66	2.52	14.24		0.00743	24.2306118
749	.002430	387.99	-12.84	16.91	-10.58	3.75	12.00		0.00744	15.46448421
750	.002440	381.58	-10.25	19.02	-13.31	9.06	17.81		0.00745	19.73705101
751	.002450	378.93	-19.04	16.15	.26	11.46	21.82		0.00746	39.1845932
752	.002460	381.14	-8.78	14.02	16.21	11.04	15.10		0.00747	56.86418152
753	.002470	385.27	31.33	17.16	15.32	10.36	1.64		0.00748	62.31538773
754	.002480	386.00	51.34	26.54	2.69	11.98	-10.82		0.00749	60.17910385
755	.002490	375.69	30.29	37.17	-3.09	18.29	-16.19		0.0075	61.72606659
756	.002500	361.18	11.02	44.19	2.42	26.54	-15.72		0.00751	63.49402618
757	.002510	351.97	18.18	46.35	11.68	31.89	-15.82		0.00752	61.87339783
758	.002520	355.95	39.82	46.33	21.35	32.06	-24.63		0.00753	59.36878967
759	.002530	360.07	44.84	46.50	28.35	31.72	-37.19		0.00754	63.34669495
760	.002540	359.93	21.80	50.01	29.11	33.29	-35.64		0.00755	66.58795166
761	.002550	360.07	-1.24	56.52	24.11	37.34	-22.05		0.00756	62.83103943
762	.002560	360.96	15.08	59.15	16.26	41.91	-20.15		0.00757	51.19198227
763	.002570	354.70	51.56	53.92	6.34	43.46	-26.36		0.00758	42.42585373
764	.002580	341.95	58.65	44.66	2.84	42.38	-27.34		0.00759	41.68920135
765	.002590	334.29	34.95	39.50	11.85	40.34	-32.36		0.0076	43.60449219
766	.002600	336.72	15.08	41.62	18.50	38.45	-31.65		0.00761	37.85862732
767	.002610	336.65	14.41	45.08	12.17	37.00	-7.33		0.00762	28.42951393
768	.002620	333.26	29.18	42.92	11.90	35.85	26.13		0.00763	22.97830772
769	.002630	332.38	45.65	35.85	30.71	32.36	40.56		0.00764	27.10354424
770	.002640	338.64	57.10	29.85	49.40	27.20	41.32		0.00765	31.22878075
771	.002650	343.87	63.90	29.02	48.95	23.74	41.98		0.00766	27.10354424
772	.002660	344.60	71.36	31.89	39.82	22.22	25.54		0.00767	14.06484985
773	.002670	346.23	79.26	30.79	37.04	20.42	-11.44		0.00768	3.23610401
774	.002680	356.83	79.78	23.44	40.53	19.15	-32.26		0.00769	1.46814537
775	.002690	373.33	72.17	15.86	41.34	20.84	-12.32		0.0077	3.53076363
776	.002700	381.66	69.36	16.86	41.94	24.65	23.74		0.00771	0.73149592
777	.002710	376.06	77.63	21.43	45.31	27.96	34.99		0.00772	-0.00515347
778	.002720	368.55	89.01	20.89	48.02	29.02	20.67		0.00773	9.71861839
779	.002730	365.08	86.05	14.33	45.04	29.71	5.25		0.00774	22.97830772
780	.002740	372.01	73.05	12.25	39.35	33.83	-3.36		0.00775	19.81071472
781	.002750	385.71	61.39	17.13	36.45	41.74	-7.79		0.00776	5.00406265
782	.002760	399.19	57.84	21.73	37.46	48.88	-3.93		0.00777	1.91013503
783	.002770	403.39	60.94	22.32	39.62	52.62	7.37		0.00778	20.54736519
784	.002780	391.46	65.67	24.28	47.72	53.97	23.72		0.00779	40.65789413
785	.002790	376.35	72.91	30.64	62.39	55.00	48.36		0.0078	50.38166428
786	.002800	370.83	85.54	39.09	61.97	53.89	66.92		0.00781	50.67632675
787	.002810	368.84	95.36	45.91	38.88	51.83	60.79		0.00782	46.18276596
788	.002820	363.91	96.54	49.87	26.97	51.76	40.41		0.00783	44.78313065
789	.002830	353.89	86.64	49.03	34.77	53.23	34.08		0.00784	51.11831665
790	.002840	345.93	78.22	48.02	38.88	52.79	45.16		0.00785	54.21224213
791	.002850	343.87	82.43	48.71	41.62	50.19	55.25		0.00786	50.16067123
792	.002860	349.91	97.43	48.05	56.07	48.61	52.47		0.00787	43.08883667
793	.002870	360.88	102.89	42.23	69.39	48.05	44.30		0.00788	38.96360016
794	.002880	367.74	83.10	34.81	65.59	46.18	44.32		0.00789	32.18642426
795	.002890	369.50	60.57	29.73	48.68	40.39	48.71		0.0079	25.48291588
796	.002900	370.02	59.76	27.18	38.27	33.86	48.39		0.00791	26.07223511

	AE	AF	AG	AH	AI
747	17.37977219	3.60442853	9.49762344	6.77202129	-5.01436949
748	23.86228752	8.98196888	11.04458809	9.64495373	6.4773612
749	20.62103081	12.37055683	11.56024265	11.78123665	11.04458809
750	11.3392477	10.97092247	11.85490227	12.0022316	9.27662945
751	7.58233547	4.70940256	12.95987606	11.56024265	6.55102634
752	17.30610847	5.44605207	16.0538044	9.71861839	10.16060829
753	33.88071823	15.31715393	23.64129257	13.69652557	17.52710152
754	44.19380951	28.20851898	32.26008987	21.9469986	25.40925026
755	46.10910034	31.22878075	36.97464752	29.68181801	29.01883316
756	46.403759	29.09249878	36.53265762	29.90281296	29.75548172
757	48.46637726	29.16616249	37.12197495	27.98752403	30.05014229
758	52.73894501	37.93229294	41.76286697	26.14590073	31.96543121
759	57.74816132	48.46637726	47.87705994	31.59710693	32.55474854
760	57.60083008	53.25460052	50.52899551	39.1845932	36.01700211
761	48.54004288	50.38166428	48.02438736	42.86784363	39.47925568
762	36.82731628	45.9617691	45.07778931	39.33192444	42.72051239
763	35.42768478	40.65789413	42.86784363	33.73339081	44.41480637
764	44.26747513	38.88993454	39.6265831	29.60815239	46.10910034
765	50.67632675	40.9525528	34.17538071	32.99673843	43.82548523
766	47.36140442	43.53082657	29.23982811	35.94333649	42.35218811
767	37.56396484	41.54187393	24.2306118	33.43872833	39.40559006
768	28.35584831	38.2269516	17.37977219	27.47187042	36.75365067
769	26.36689568	33.58605957	11.26558208	26.58789063	33.36506653
770	31.22878075	33.21773529	4.41474295	27.17720985	35.05935669
771	30.86045647	34.39637375	0.65783101	26.73521996	33.88071823
772	23.27296829	32.99673843	3.53076363	22.68364906	31.22878075
773	19.73705101	24.59893608	7.72966528	22.53631783	32.26008987
774	28.13485336	20.98935509	7.36134052	28.57684326	38.00595474
775	37.49030304	23.27296829	8.6136446	37.71129608	37.56396484
776	35.20668793	26.73521996	13.91752052	41.83653259	31.30244637
777	22.97830772	20.03170967	17.08511353	44.12014771	27.91385841
778	18.04275703	8.98196888	18.77940559	46.10910034	36.60632324
779	25.77757645	2.64678431	25.77757645	50.38166428	49.05569839
780	38.00595474	7.36134052	37.7849617	52.22328949	56.64318466
781	45.66711044	16.27479935	47.58239746	54.58056641	55.68554306
782	49.20302582	21.72600365	52.88627243	56.93784714	52.07595825
783	51.56030655	19.81071472	53.03360367	60.84208679	51.11831665
784	56.71685028	19.88438034	48.76103592	57.2325058	55.68554306
785	61.50507355	25.85124016	45.29878616	50.67632675	59.5161171
786	62.61004639	36.31166077	47.80339432	47.2877388	60.17910385
787	57.45349884	43.45716095	51.11831665	50.67632675	57.89548874
788	51.56030655	47.7297287	48.31904602	51.33930969	58.70580292
789	47.43507004	47.58239746	42.64684677	51.26564407	56.64318466
790	45.66711044	44.26747513	41.24721527	52.44428635	52.14962387
791	40.5105629	36.01700211	44.34114075	55.24355316	44.5621376
792	34.10171509	27.25087547	44.04648209	54.13857651	40.36323547
793	27.3982048	22.83097839	36.75365067	47.43507004	36.97464752
794	23.27296829	26.07223511	27.25087547	38.81626892	35.50134659
795	22.09432793	26.80888557	24.89359665	36.38532639	34.17538071
796	24.89359665	22.68364906	27.54553413	37.85862732	33.29140091

	AJ	AK	AL	AM	AN
747	17.90826225	-69.90515137	20.27161598	14.58479309	6.83003378
748	26.54927826	-95.60664368	29.13419914	24.03821373	14.43708324
749	21.60100365	-52.10613632	31.27598953	27.73095703	19.97619629
750	12.66456699	11.48288918	24.48134232	26.84469795	15.24948692
751	8.08556652	24.25977898	13.62468052	24.18592262	5.13137245
752	1.36477518	2.84187222	3.87583995	17.61284256	-8.08864498
753	-0.26003149	-7.79322624	-1.22014451	9.34109879	-15.47413063
754	8.8979702	-6.09456444	4.46667862	2.47259784	-21.38251877
755	23.15195465	-1.22014451	13.10769653	0.77393639	-24.11514854
756	29.87274742	16.87429428	17.31742287	2.39874315	-16.13882446
757	32.08839417	38.21834564	14.73250294	4.09740448	4.83595324
758	35.55957031	38.66147232	13.10769653	4.09740448	24.92447281
759	38.58761978	19.60692215	14.14166355	-6.09456444	30.24202156
760	23.89050484	8.52869511	16.35730934	-37.99985886	15.84032536
761	-11.55982304	14.95406723	15.61876106	-52.91853714	-1.8848381
762	-30.46666527	22.11798859	16.87429428	-12.74150085	-15.76954937
763	-2.84495115	18.86837387	19.5330677	30.98056984	-35.48879623
764	32.67922974	15.84032536	6.97774363	24.85061646	-47.82255554
765	38.43991089	17.8344059	-19.75771141	0.62622672	-19.46229172
766	30.09431076	23.96435928	-18.3544693	7.1993084	29.42961693
767	36.51968384	38.51376343	17.09585762	34.74716568	48.11489487
768	48.26260376	50.4782486	49.44428253	52.32461929	33.49163437
769	47.67176437	45.01298904	54.1709938	59.41468811	27.73095703
770	40.72940826	33.04850388	45.67768478	55.94350815	38.21834564
771	42.79734421	29.06034279	39.25231171	25.51531029	30.68515015
772	50.03512192	31.27598953	40.28628159	-14.8094368	-6.90696764
773	52.91545868	31.71911812	39.4000206	-12.66764641	-22.34263039
774	51.58607101	34.89487839	39.32616806	27.0662632	4.83595324
775	54.0232811	41.24639511	40.65555573	40.43399048	28.98648834
776	58.45457458	43.09276581	42.50192642	12.81227684	13.18155098
777	58.74999237	37.03666687	39.32616806	-4.6174674	-22.26877594
778	52.10305786	33.19621658	32.75308609	6.23919535	-42.87427902
779	47.52405548	35.8549881	25.95843887	16.06188965	-41.61874771
780	48.11489487	40.43399048	23.81664848	15.61876106	-30.31895447
781	46.34237671	40.06471634	32.4576683	19.31150436	-6.5376935
782	41.02482986	36.66739273	65.47078705	27.58324623	30.16816711
783	47.37634659	38.43991089	101.3642426	31.71911812	74.55493164
784	49.51813507	49.29657364	87.11025238	39.25231171	88.43964386
785	21.67485809	61.85189819	33.12236023	49.59199142	56.31278229
786	-3.21422553	76.40129852	7.71629238	42.42807007	22.85653687
787	18.94222832	78.46923828	6.9038887	28.54335976	31.05442429
788	56.97747803	52.1769104	7.49472761	37.03666687	52.39847565
789	67.39100647	31.27598953	26.18000412	71.30532074	48.41031265
790	59.93167114	46.26852417	61.99960709	92.50165558	24.77676201
791	58.74999237	69.38509369	80.02018738	75.36733246	24.18592262
792	61.03949356	64.80609131	70.93604279	52.1769104	50.03512192
793	60.67021942	27.95252037	57.42060471	50.18283081	68.05570221
794	59.63624954	-1.8109833	56.97747803	52.54618454	62.73815536
795	62.36888123	15.32334137	51.21679688	48.41031265	51.51221848
796	63.47670364	59.48854065	25.36760139	52.84160614	48.26260376

	AO	AP	AQ	AR	AS
747	14.58479309	387.9935913	-12.83883762	16.91322708	3.75175834
748	14.95406723	381.5847473	-10.25391769	19.02495575	9.0556345
749	17.76055145	378.9328003	-19.0426445	16.15202332	11.46202278
750	3.21114635	381.1427612	-8.77682018	14.01574039	11.04458809
751	-24.41056633	385.2679749	31.32636261	17.15877724	10.35704803
752	-41.98802185	386.0046387	51.34102631	26.53878021	11.97767735
753	-42.43114853	375.6915283	30.29239464	37.17108536	18.28830719
754	-28.25101852	361.1795349	11.01627922	44.19380951	26.53878021
755	-24.11514854	351.9714356	18.18019867	46.35464859	31.89176559
756	-60.15631485	355.9493408	39.81967163	46.33009338	32.06365204
757	-120.4957275	360.074585	44.84180069	46.50197983	31.71988106
758	-135.9313812	359.9272461	21.79908752	50.01334381	33.29140091
759	-90.28909302	360.074585	-1.24362588	56.52041245	37.3429718
760	-38.29528046	360.9585571	15.07829571	59.14779282	41.91019821
761	-24.26285744	354.6970215	51.56259155	53.91758347	43.45716095
762	-53.50937653	341.9530029	58.65265656	44.66035461	42.37674332
763	-92.57859039	334.2918396	34.94525146	39.50381088	40.33868027
764	-71.97309113	336.7227783	15.07829571	41.61553574	38.44794464
765	-3.14037061	336.6491089	14.41360188	45.07778931	36.99920273
766	41.76337814	333.2605286	29.18457222	42.91695404	35.84511566
767	38.80918503	332.3765564	45.65420151	35.84511566	32.3583107
768	38.14448929	338.6380615	57.10170364	29.85370255	27.20176506
769	38.80918503	343.8682861	63.89635086	29.01883316	23.7395134
770	-17.54206657	344.60495	71.35569	31.89176559	22.21710396
771	-90.51065826	346.2255554	79.25815582	30.78679085	20.42458916
772	-75.07499695	356.833313	79.77514648	23.44485283	19.14773178
773	-1.95869303	373.334259	72.16809082	15.8573637	20.84202385
774	39.32616806	381.6584168	69.36161041	16.86411858	24.64804649
775	35.55957031	376.0598755	77.63335419	21.43134499	27.96296883
776	36.00270081	368.546051	89.00699615	20.89113426	29.01883316
777	42.64963531	365.0838013	86.05280304	14.33495426	29.70637321
778	26.54927826	372.0083008	73.05435181	12.24778175	33.83161163
779	2.17717862	385.7099609	61.38528442	17.13422203	41.73831177
780	2.9157269	399.1906433	57.84025192	21.72600365	48.88381195
781	9.34109879	403.3895569	60.94215775	22.31532478	52.61616898
782	13.40311527	391.4558411	65.66886902	24.27972221	53.96669388
783	38.80918503	376.3545227	72.9066391	30.63946152	54.9980011
784	73.07783508	370.8296509	85.53582001	39.08637619	53.89302826
785	76.47515869	368.8406982	95.35851288	45.91265869	51.83041
786	55.94350815	363.9051514	96.54019165	49.86601257	51.75674438
787	42.64963531	353.8867188	86.64364624	49.03114319	53.23004532
788	46.04695892	345.9309082	78.22418976	48.02438736	52.78805161
789	46.04695892	343.8682861	82.43391418	48.71192932	50.18522644
790	40.13856888	349.9088135	97.42645264	48.04894257	48.6137085
791	33.34392548	360.8848877	102.8917084	42.22941208	48.04894257
792	30.75900459	367.7357178	83.09860992	34.81380844	46.18276596
793	27.87866592	369.5036926	60.57288361	29.73092842	40.38779068
794	29.87274742	370.0193481	59.76047897	27.17720985	33.85616302
795	34.0086174	368.6933594	66.48126984	24.79537582	31.81810188
796	39.4000206	366.7044067	66.4074173	24.54982758	32.89852142

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747	-10.57509136	11.99987316
748	-13.30772209	17.80978775
749	0.25695229	21.82256889
750	16.20959854	15.10177708
751	15.32334232	1.63557625
752	2.69416237	-10.82127476
753	-3.09113407	-16.18806076
754	2.42336154	-15.72031307
755	11.67983532	-15.81878662
756	21.35482216	-24.63213158
757	28.34641457	-37.18745804
758	29.10957909	-35.63650131
759	24.11206818	-22.0472126
760	16.25883675	-20.1516037
761	6.33766842	-26.35541153
762	2.84187245	-27.3401413
763	11.85216331	-32.36227417
764	18.49909973	-31.64834404
765	12.17220211	-7.32547855
766	11.90140057	26.13076782
767	30.7097683	40.55708313
768	49.39504623	41.32024765
769	48.95191574	41.98494339
770	39.81853104	25.53992844
771	37.03666687	-11.43673229
772	40.53246307	-32.26380157
773	41.34486389	-12.32299042
774	41.93570709	23.74279404
775	45.30841064	34.99335098
776	48.01642227	20.66551018
777	45.0376091	5.25446415
778	39.35078812	-3.36193514
779	36.44582748	-7.79322624
780	37.45517731	-3.92815542
781	39.62158585	7.37163639
782	47.72100449	23.71817589
783	62.39350128	48.36107635
784	61.97498703	66.92326355
785	38.88303757	60.79331207
786	26.9677887	40.40937042
787	34.77178574	34.08247375
788	38.88303757	45.16070175
789	41.61566544	55.25419617
790	56.0666008	52.47232819
791	69.38509369	44.29906082
792	65.59387207	44.32367706
793	48.6811142	48.70573425
794	38.26758194	48.38569641
795	42.96967316	44.6437149
796	49.44428253	46.8347435

	A	B	C	D	E	F	G	H	I	J	K
797								.002910	25.48	62.37	22.09
798								.002920	26.07	63.48	24.89
799								.002930	36.09	62.66	25.34
800								.002940	41.25	63.03	22.24
801								.002950	34.54	67.10	18.41
802								.002960	20.69	68.20	15.76
803								.002970	13.25	67.24	10.31
804								.002980	14.43	69.24	4.05
805								.002990	20.62	76.33	2.57
806								.003000	24.01	81.35	7.21
807								.003010	19.74	80.76	10.16
808								.003020	8.54	75.52	11.34
809								.003030	4.12	72.63	12.67
810								.003040	14.73	67.76	14.06
811								.003050	31.67	61.70	17.45
812								.003060	38.01	68.50	25.92
813								.003070	35.80	84.75	32.92
814								.003080	40.81	85.78	30.64
815								.003090	60.25	73.45	25.11
816								.003100	76.75	67.24	25.11
817								.003110	78.74	74.85	26.66
818								.003120	69.61	84.60	26.59
819								.003130	58.78	90.95	24.16
820								.003140	47.73	92.28	22.83
821								.003150	41.03	89.77	18.85
822								.003160	37.56	85.12	13.55
823								.003170	36.24	79.13	8.25
824								.003180	32.92	75.81	7.29
825								.003190	28.50	83.57	10.68
826								.003200	20.25	98.34	17.01
827								.003210	9.87	108.53	18.93
828								.003220	2.06	108.53	14.51
829								.003230	-1.70	105.43	5.89
830								.003240	-3.76	105.28	1.84
831								.003250	-4.43	108.09	2.79
832								.003260	-1.99	109.19	4.93
833								.003270	5.00	108.45	4.93
834								.003280	13.84	109.27	4.19
835								.003290	22.02	115.69	1.91
836								.003300	27.47	122.56	3.53
837								.003310	34.47	122.71	10.75
838								.003320	42.43	115.47	20.62
839								.003330	52.15	112.89	24.23
840								.003340	61.58	117.61	21.80
841								.003350	68.72	125.29	20.40
842								.003360	69.24	127.44	26.00
843								.003370	67.62	124.85	32.26
844								.003380	67.18	121.08	36.31
845								.003390	68.43	119.61	36.24
846								.003400	66.07	121.38	37.56

	L	M	N	O	P	Q	R	S	T
797	15.32	26.81	51.22	24.89	48.41	36.39	51.51	34.18	34.01
798	59.49	22.68	25.37	27.55	52.84	37.86	48.26	33.29	39.40
799	80.68	16.86	8.82	23.49	66.80	37.71	54.47	26.96	43.39
800	71.82	18.41	33.49	15.61	73.52	32.41	67.17	16.13	52.55
801	64.36	19.52	68.20	13.70	68.79	27.10	79.58	3.97	69.53
802	72.86	13.33	77.73	16.05	66.28	23.64	86.67	.66	94.42
803	79.95	1.17	64.51	16.50	74.63	24.45	117.83	4.56	126.25
804	72.78	-4.28	66.73	18.19	85.85	24.67	160.30	8.32	154.76
805	63.03	-4.72	89.40	22.39	86.52	24.75	133.49	9.28	155.28
806	80.24	-1.77	94.79	24.08	65.25	23.94	57.27	13.92	135.78
807	129.06	3.09	71.90	22.39	33.27	23.86	40.73	17.23	122.71
808	154.17	9.87	61.70	21.80	46.79	21.51	80.68	17.90	122.86
809	120.86	11.56	78.54	23.71	119.75	18.71	97.30	17.38	120.20
810	76.25	8.83	93.46	24.75	150.48	16.50	78.03	20.33	112.52
811	67.61	4.86	86.22	24.38	73.08	16.94	64.51	20.40	103.36
812	82.83	4.41	76.03	23.94	5.06	12.81	44.57	17.09	95.90
813	92.13	3.90	78.84	21.51	38.88	4.86	11.70	12.44	89.03
814	91.25	3.09	87.33	17.75	96.27	-2.66	13.11	11.41	86.81
815	88.74	4.34	90.29	14.88	97.01	-2.88	59.71	9.72	82.97
816	100.11	11.78	91.10	13.55	67.02	2.57	109.27	10.53	79.13
817	126.11	15.54	93.90	14.06	58.23	7.66	115.03	10.38	73.96
818	136.67	14.21	95.38	15.76	77.14	5.00	63.92	10.53	65.47
819	116.36	12.22	92.72	13.99	107.79	-1.77	18.72	9.35	50.55
820	96.05	15.02	104.76	9.94	111.85	-5.90	27.58	11.63	40.88
821	95.09	13.55	138.29	7.51	80.02	-3.54	57.72	12.44	43.39
822	104.10	9.13	155.65	6.77	60.23	-4.43	63.26	11.93	55.94
823	105.87	8.25	123.89	2.79	72.78	-11.35	54.10	8.61	68.35
824	102.18	16.57	89.62	-2.29	86.08	-16.14	57.13	6.18	79.28
825	100.85	24.97	92.35	-4.65	74.92	-10.61	77.21	1.47	86.22
826	103.51	28.43	112.96	-3.47	60.15	-3.76	94.13	-3.32	91.39
827	107.27	23.86	114.07	-1.48	72.19	-1.48	97.89	-6.49	91.76
828	111.19	19.74	101.88	-2.80	94.79	-4.28	94.94	-5.01	89.18
829	112.22	17.23	95.23	-5.75	98.19	-6.12	94.20	-1.48	92.72
830	110.30	20.40	104.17	-6.34	81.05	-4.57	91.54	1.32	109.86
831	107.86	25.04	114.95	-3.54	59.05	.51	82.24	.73	129.43
832	109.12	26.59	118.57	-1.85	45.68	2.65	74.26	1.62	136.45
833	112.07	20.40	114.29	-2.66	58.75	1.91	79.28	4.41	127.66
834	109.93	14.43	112.96	-3.25	89.62	-.15	89.18	7.51	116.65
835	99.15	14.51	125.37	-.59	105.50	1.10	96.79	5.00	105.94
836	88.44	21.36	157.27	5.00	100.92	3.46	98.34	7.36	97.45
837	84.60	26.66	166.73	9.35	94.72	6.33	95.68	16.94	92.06
838	90.36	32.41	137.48	13.40	94.42	5.89	88.66	26.44	93.31
839	103.28	34.54	108.90	16.20	90.06	5.45	82.53	26.22	92.87
840	117.83	30.05	101.88	16.13	77.80	5.67	78.84	24.30	88.14
841	118.57	20.18	100.99	14.43	72.12	5.81	78.10	23.13	75.88
842	107.05	19.59	109.41	15.17	77.14	4.19	74.85	23.79	65.54
843	101.22	26.96	121.53	17.67	80.68	6.04	72.19	23.57	62.07
844	106.53	35.06	126.99	19.15	79.13	10.46	74.26	27.10	63.33
845	110.82	33.59	122.12	20.18	79.13	17.01	79.36	32.85	59.56
846	120.20	29.68	119.02	20.92	81.20	22.09	77.66	39.26	56.90

	U	V	W	X	Y	Z	AA	AB	AC	AD
797	.002910	368.69	66.48	24.80	42.97	31.82	44.64		0.00792	36.09066772
798	.002920	366.70	66.41	24.55	49.44	32.90	46.83		0.00793	41.24721527
799	.002930	364.42	69.07	26.10	50.72	29.39	54.88		0.00794	34.54370499
800	.002940	361.99	82.88	27.30	56.12	21.38	64.41		0.00795	20.69469452
801	.002950	354.92	97.94	24.16	66.55	14.92	72.63		0.00796	13.25453568
802	.002960	347.26	117.44	16.59	72.93	13.45	82.46		0.00797	14.43317509
803	.002970	342.98	142.55	8.25	70.57	15.17	106.24		0.00798	20.62103081
804	.002980	339.01	157.10	4.73	69.58	17.06	133.64		0.00799	24.00961685
805	.002990	330.83	160.87	6.16	76.25	18.80	125.10		0.008	19.73705101
806	.003000	318.90	169.36	9.82	85.46	20.65	86.10		0.00801	8.53997993
807	.003010	306.15	185.46	11.00	93.90	21.16	65.57		0.00802	4.12008333
808	.003020	298.49	196.39	9.92	97.13	20.40	83.44		0.00803	14.7278347
809	.003030	294.51	190.04	9.45	90.68	19.93	112.42		0.00804	31.67077065
810	.003040	294.14	176.01	12.54	79.16	20.52	113.67		0.00805	38.00595474
811	.003050	291.93	164.19	17.99	71.85	20.57	80.32		0.00806	35.79600906
812	.003060	287.44	154.37	22.78	75.79	17.94	48.51		0.00807	40.80522537
813	.003070	282.73	132.14	24.21	85.24	12.94	46.54		0.00808	60.25276947
814	.003080	277.13	101.93	24.84	88.12	8.83	65.40		0.00809	76.75371552
815	.003090	271.68	94.55	29.90	84.16	7.24	79.90		0.0081	78.74266815
816	.003100	268.66	112.05	37.88	86.15	8.88	85.14		0.00811	69.60821533
817	.003110	272.12	129.33	40.31	98.29	10.70	82.41		0.00812	58.77946854
818	.003120	283.91	137.16	36.80	105.55	10.43	68.84		0.00813	47.7297287
819	.003130	296.35	142.63	31.72	100.01	7.19	59.02		0.00814	41.02621841
820	.003140	305.12	154.00	28.53	97.70	5.23	60.10		0.00815	37.56396484
821	.003150	304.31	159.83	24.48	107.72	5.47	60.37		0.00816	36.23799896
822	.003160	298.27	156.58	20.08	114.95	4.76	59.81		0.00817	32.92307663
823	.003170	299.30	153.85	17.58	102.96	.02	65.08		0.00818	28.50317955
824	.003180	310.06	156.14	18.93	89.20	-4.08	74.16		0.00819	20.25270462
825	.003190	320.74	163.82	21.38	92.26	-4.60	79.45		0.0082	9.86594868
826	.003200	318.09	173.20	21.90	104.93	-3.52	81.89		0.00821	2.05746484
827	.003210	307.04	182.80	17.55	109.96	-3.15	87.28		0.00822	-1.69944715
828	.003220	298.86	189.15	12.10	107.20	-4.03	92.97		0.00823	-3.76206541
829	.003230	296.94	186.94	7.14	104.29	-4.45	95.04		0.00824	-4.42504978
830	.003240	298.27	179.26	6.16	106.58	-3.20	94.15		0.00825	-1.99410689
831	.003250	299.23	174.97	7.80	110.30	-.77	90.24		0.00826	5.00406265
832	.003260	303.65	176.01	9.84	112.29	.81	85.46		0.00827	13.84385586
833	.003270	312.05	178.08	10.11	111.61	1.22	88.56		0.00828	22.02066422
834	.003280	316.91	177.19	10.82	110.72	1.37	98.48		0.00829	27.47187042
835	.003290	314.18	170.54	12.81	113.40	1.84	102.74		0.0083	34.47003937
836	.003300	311.16	160.65	17.45	122.76	5.27	98.90		0.00831	42.42585373
837	.003310	315.21	155.62	23.96	124.68	10.87	94.15		0.00832	52.14962387
838	.003320	320.15	154.15	31.82	114.44	15.24	92.13		0.00833	61.57873535
839	.003330	320.88	150.82	36.97	108.36	15.96	88.49		0.00834	68.72423553
840	.003340	323.68	146.69	37.81	112.44	15.37	81.60		0.00835	69.23989105
841	.003350	330.61	147.65	36.43	114.95	14.46	75.37		0.00836	67.6192627
842	.003360	338.86	153.11	38.28	114.63	14.38	72.51		0.00837	67.17726898
843	.003370	339.60	157.84	42.28	115.86	15.76	71.65		0.00838	68.42957306
844	.003380	335.91	161.31	46.18	118.20	18.90	72.24		0.00839	66.07229614
845	.003390	333.56	167.22	46.08	117.51	23.35	72.68		0.0084	60.03177261
846	.003400	330.68	167.74	44.44	120.20	27.42	71.92		0.00841	52.44428635

	AE	AF	AG	AH	AI
797	25.33558655	16.86411858	23.49396324	37.71129608	26.9562149
798	22.24165916	18.41108131	15.61181355	32.40742111	16.12746811
799	18.41108131	19.51605606	13.69652557	27.10354424	3.97275329
800	15.75914383	13.32820129	16.0538044	23.64129257	0.65783101
801	10.30793858	1.17348564	16.49579239	24.45160675	4.56207275
802	4.04641819	-4.27771997	18.19008636	24.6726017	8.31898499
803	2.5731194	-4.71970987	22.38898849	24.74626732	9.27662945
804	7.21401072	-1.77311206	24.08328247	23.93595314	13.91752052
805	10.16060829	3.08877397	22.38898849	23.86228752	17.23244286
806	11.3392477	9.86594868	21.79966927	21.5050087	17.8954277
807	12.66521645	11.56024265	23.71495819	18.70574188	17.37977219
808	14.06484985	8.83463955	24.74626732	16.49579239	20.32637024
809	17.45343781	4.85673285	24.37794113	16.93778229	20.40003586
810	25.92490578	4.41474295	23.93595314	12.81254578	17.08511353
811	32.92307663	3.89908838	21.5050087	4.85673285	12.4442215
812	30.63946152	3.08877397	17.74809647	-2.65709138	11.41291237
813	25.1145916	4.3410778	14.87516499	-2.87808609	9.71861839
814	25.1145916	11.78123665	13.54919529	2.5731194	10.52893353
815	26.66155434	15.53814888	14.06484985	7.65600061	10.38160324
816	26.58789063	14.21218014	15.75914383	5.00406265	10.52893353
817	24.15694809	12.22322655	13.99118519	-1.77311206	9.35029411
818	22.83097839	15.02249432	9.93961334	-5.89834881	11.63390732
819	18.85307121	13.54919529	7.50867033	-3.5410707	12.4442215
820	13.54919529	9.12929916	6.77202129	-4.42504978	11.92856693
821	8.24532032	8.24532032	2.79411435	-11.34955406	8.6136446
822	7.28767586	16.56945801	-2.28876662	-16.13777542	6.18270159
823	10.67626286	24.96726227	-4.64604473	-10.61290455	1.46814537
824	17.01144791	28.42951393	-3.4674058	-3.76206541	-3.32007575
825	18.92673683	23.86228752	-1.47845232	-1.47845232	-6.48766804
826	14.50683975	19.73705101	-2.80442119	-4.27771997	-5.01436949
827	5.88804197	17.23244286	-5.751019	-6.11934376	-1.47845232
828	1.83647001	20.40003586	-6.34033823	-4.57237959	1.32081544
829	2.79411435	25.04092598	-3.5410707	0.51050109	0.73149592
830	4.93039751	26.58789063	-1.84677696	2.64678431	1.61547518
831	4.93039751	20.40003586	-2.65709138	1.91013503	4.41474295
832	4.193748	14.43317509	-3.24641085	-0.15248336	7.50867033
833	1.91013503	14.50683975	-0.594473	1.09982061	5.00406265
834	3.53076363	21.35767937	5.00406265	3.45709872	7.36134052
835	10.74992752	26.66155434	9.35029411	6.33003139	16.93778229
836	20.62103081	32.40742111	13.40186596	5.88804197	26.44055939
837	24.2306118	34.54370499	16.20113373	5.44605207	26.21956635
838	21.79966927	30.05014229	16.12746811	5.66704702	24.30427742
839	20.40003586	20.17904091	14.43317509	5.81437683	23.12563705
840	25.9985714	19.58972168	15.1698246	4.193748	23.7886219
841	32.26008987	26.9562149	17.67443275	6.03537178	23.56762695
842	36.31166077	35.05935669	19.14773178	10.45526791	27.10354424
843	36.23799896	33.58605957	20.17904091	17.01144791	32.84941101
844	37.56396484	29.68181801	20.91568947	22.09432793	39.25825882
845	36.82731628	28.65050888	20.47369957	27.69286346	41.54187393
846	33.29140091	34.69103241	19.29506111	27.8401947	38.59527588

	AJ	AK	AL	AM	AN
797	62.66429901	80.68488312	8.8241148	66.8001709	54.46641159
798	63.03357315	71.82230377	33.49163437	73.52096558	67.16944885
799	67.09558868	64.36296082	68.20341492	68.79425049	79.57705688
800	68.20341492	72.85626984	77.73069	66.28318787	86.66712189
801	67.24330139	79.94633484	64.51067352	74.62878418	117.8338699
802	69.23738098	72.7824173	66.72631836	85.85472107	160.300415
803	76.32744598	63.03357315	89.39975739	86.51941681	133.4911041
804	81.34957886	80.24175262	94.79116058	65.2492218	57.27289581
805	80.75873566	129.0598145	71.89615631	33.27006912	40.72940826
806	75.51504517	154.1704559	61.70418549	46.7855072	80.68488312
807	72.63470459	120.8619232	78.54309082	119.754097	97.30222321
808	67.76028442	76.25359344	93.4617691	150.4777222	78.02610779
809	61.70418549	67.61257172	86.22399902	73.07783508	64.51067352
810	68.4988327	82.82667542	76.0320282	5.05751753	44.56986237
811	84.74690247	92.13238525	78.83850861	38.88303757	11.70445442
812	85.78086853	91.24612427	87.33181763	96.26825714	13.10769653
813	73.44710541	88.73506165	90.28601074	97.00680542	59.7101059
814	67.24330139	100.1087112	91.09841919	67.02173615	109.2667084
815	74.85034943	126.1056137	93.9048996	58.23300934	115.0273895
816	84.59918976	136.6668549	95.38199615	77.1398468	63.91983032
817	90.95070648	116.3567734	92.72322083	107.7896118	18.72066498
818	92.28009033	96.04669189	104.7615662	111.8516312	27.58324623
819	89.76902771	95.08657837	138.2916718	80.02018738	57.71602631
820	85.11617279	104.0968704	155.6475525	60.22708893	63.2551384
821	79.13393402	105.8693848	123.8899689	72.7824173	54.09713745
822	75.81046295	102.1766434	89.62132263	86.07628632	57.12518692
823	83.56522369	100.8472595	92.3539505	74.92420197	77.21370697
824	98.33618927	103.5060272	112.9594498	60.15323639	94.12646484
825	108.5281601	107.2726288	114.067276	72.1915741	97.89305878
826	108.5281601	111.1869354	101.8812256	94.79116058	94.93886566
827	105.4262543	112.2209015	95.23429108	98.18848419	94.20031738
828	105.2785492	110.3006744	104.170723	81.05415344	91.54154205
829	108.0850296	107.8634644	114.9535294	59.04541016	82.23583221
830	109.1928558	109.1190033	118.5724182	45.67768478	74.25951385
831	108.4543076	112.0731964	114.2888413	58.74999237	79.2816391
832	109.2667084	109.9314041	112.9594498	89.62132263	89.17819214
833	115.6920776	99.14859772	125.3670654	105.5001144	96.78524017
834	122.560585	88.43964386	157.2723541	100.9211121	98.33618927
835	122.7082901	84.59918976	166.7257843	94.71730042	95.67741394
836	115.47052	90.35987091	137.4792633	94.42188263	88.66120911
837	112.8855972	103.2844696	108.8974381	90.0644455	82.53125763
838	117.6123047	117.8338699	101.8812256	77.80454254	78.83850861
839	125.2932129	118.5724182	100.9949646	72.11772156	78.09996033
840	127.4350052	107.0510635	109.4144211	77.1398468	74.85034943
841	124.8500824	101.2165299	121.5266113	80.68488312	72.1915741
842	121.0834885	106.5340805	126.9918747	79.13393402	74.25951385
843	119.6063843	110.8176575	122.1174545	79.13393402	79.35549927
844	121.3789063	120.1972275	119.0155487	81.20186615	77.65683746
845	126.2533264	117.3168869	119.3109665	79.8724823	74.70263672
846	130.3891907	88.21807861	118.7201309	80.38946533	74.25951385

	AO	AP	AQ	AR	AS
797	43.38818359	364.4208069	69.06619263	26.09679031	29.38715744
798	52.54618454	361.9898682	82.87704468	27.29998589	21.38223457
799	69.53279877	354.9180298	97.94343567	24.15694809	14.92427444
800	94.42188263	347.2568665	117.4411163	16.59401321	13.45097637
801	126.2533264	342.984314	142.5517578	8.24532032	15.16982365
802	154.7612915	339.0064087	157.1011658	4.73395777	17.06055832
803	155.2782745	330.8295898	160.8677673	6.15814686	18.80396271
804	135.7805939	318.895874	169.3610687	9.81683826	20.64558601
805	122.7082901	306.151825	185.4614258	10.99547768	21.16123962
806	122.8560028	298.4906921	196.3919525	9.91505909	20.40003586
807	120.1972275	294.5127869	190.0404358	9.44851398	19.93349075
808	112.5163193	294.1444397	176.0080109	12.54244137	20.52280998
809	103.3583221	291.9345093	164.1912384	17.99364662	20.57192039
810	95.89897919	287.4409485	154.3685455	22.78186798	17.94453812
811	89.03047943	282.7263794	132.1382294	24.2060585	12.93532085
812	86.81483459	277.1278381	101.9315949	24.84448624	8.83463955
813	82.97438049	271.6766357	94.54611206	29.90281296	7.23856592
814	79.13393402	268.6563721	112.0497131	37.88318253	8.88374901
815	73.96408844	272.1186218	129.3317413	40.31412506	10.70081806
816	65.47078705	283.9050293	137.1603546	36.80276108	10.43071365
817	50.55210495	296.3544006	142.6256256	31.71988106	7.18945599
818	40.87712097	305.1205139	153.9992676	28.52773285	5.22505713
819	43.38818359	304.3102112	159.8338013	24.47616196	5.4706068
820	55.94350815	298.2696838	156.5841827	20.08082008	4.75851297
821	68.35112	299.3009949	153.8515625	17.57621384	0.01940163
822	79.2816391	310.0560913	156.1410523	18.92673683	-4.08128023
823	86.22399902	320.7374878	163.8219605	21.38223457	-4.5969348
824	91.39383698	318.0855713	173.2015228	21.89788818	-3.51651573
825	91.7631073	307.0358276	182.8026581	17.55165863	-3.14819098
826	89.17819214	298.8590088	189.1541748	12.10045147	-4.0321703
827	92.72322083	296.9437256	186.9385223	7.14034605	-4.44960499
828	109.8575516	298.2696838	179.2576294	6.15814686	-3.19730091
829	129.4290772	299.2273254	174.9740448	7.80333042	-0.7663579
830	136.4452972	303.6472168	176.0080109	9.84139347	0.80516082
831	127.6565628	312.045044	178.075943	10.11149883	1.22259557
832	116.6521912	316.9069214	177.189682	10.82359314	1.36992538
833	105.9432373	314.1813049	170.5427551	12.81254673	1.83647013
834	97.44993591	311.1610413	160.6462097	17.45343781	5.27416706
835	92.05853271	315.212616	155.6240692	23.96050644	10.8727026
836	93.31406403	320.1481628	154.1469727	31.81810188	15.24348927
837	92.87093353	320.8848267	150.8235016	36.97464752	15.95558357
838	88.14422607	323.684082	146.6876373	37.80951691	15.36626434
839	75.88431549	330.6086121	147.6477509	36.4344368	14.45772934
840	65.54463959	338.8590698	153.1130066	38.27606201	14.38406467
841	62.07345963	339.5957336	157.8397217	42.27852249	15.75914383
842	63.32899475	335.9124756	161.3108978	46.18276215	18.90218163
843	59.562397	333.5552063	167.2192841	46.08454514	23.34663391
844	56.90362167	330.682251	167.7362671	44.43936157	27.4227581
845	61.92575073	324.273407	161.089325	41.83653259	29.90281296
846	75.81046295	317.4962463	153.5561371	40.14223862	28.57684326

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797	50.7244339	54.88492203
798	56.1158371	64.41220093
799	66.5539856	72.63470459
800	72.93012238	82.45739746
801	70.56677246	106.2386627
802	69.58203888	133.6388092
803	76.25359344	125.0962677
804	85.46083069	86.10090637
805	93.9048996	65.56925964
806	97.12989807	83.44213104
807	90.67990875	112.4178467
808	79.15854645	113.6733856
809	71.8469162	80.31561279
810	75.7858429	48.50878525
811	85.23926544	46.5393219
812	88.11960602	65.39692688
813	84.15605927	79.89709473
814	86.15014648	85.14079285
815	98.28695679	82.40816498
816	105.5493469	68.8434906
817	100.010231	59.02079391
818	97.69611359	60.10400009
819	107.7157593	60.37479782
820	114.9535294	59.80857849
821	102.9644318	65.07688904
822	89.20281219	74.16104126
823	92.25547791	79.45397186
824	104.9338913	81.89118195
825	109.9560242	87.28257751
826	107.1987763	92.96940613
827	104.2938156	95.03733826
828	106.583313	94.1510849
829	110.3006744	90.23677063
830	112.2947617	85.46083069
831	111.6054459	88.56272888
832	110.7191849	98.48390198
833	113.4025803	102.7428665
834	122.7575302	98.90241241
835	124.6777573	94.1510849
836	114.436554	92.13238525
837	108.355835	88.48887634
838	112.4424667	81.59575653
839	114.9535294	75.36733246
840	114.6334992	72.51161194
841	115.8644104	71.64997101
842	118.2031479	72.24081421
843	117.5138321	72.6839447
844	120.1972275	71.92077637
845	120.9603958	72.16695404
846	112.4424667	76.81981659

	A	B	C	D	E	F	G	H	I	J	K
847								.003410	60.03	126.25	36.83
848								.003420	52.44	130.39	33.29
849								.003430	47.44	131.94	25.41
850								.003440	41.69	141.91	18.34
851								.003450	32.85	165.69	16.42
852								.003460	22.54	170.71	21.43
853								.003470	16.35	140.73	27.47
854								.003480	11.71	110.74	29.31
855								.003490	7.73	107.20	25.78
856								.003500	7.21	113.40	21.06
857								.003510	11.78	110.60	19.59
858								.003520	18.71	103.58	21.95
859								.003530	27.55	105.50	22.90
860								.003540	36.83	111.93	23.20
861								.003550	44.71	113.55	22.39
862								.003560	49.94	108.09	21.21
863								.003570	55.83	103.88	20.69
864								.003580	60.99	106.90	23.71
865								.003590	66.15	113.92	28.43
866								.003600	69.68	116.50	32.41
867								.003610	71.60	115.18	31.08
868								.003620	71.82	113.40	28.95
869								.003630	71.01	114.95	28.06
870								.003640	66.15	116.36	29.90
871								.003650	58.93	117.32	28.58
872								.003660	54.65	118.72	27.40
873								.003670	56.13	121.08	27.40
874								.003680	57.60	120.12	28.13
875								.003690	54.58	116.80	26.29
876								.003700	49.35	114.44	25.11
877								.003710	46.55	112.29	27.99
878								.003720	46.70	109.41	30.57
879								.003730	46.33	108.75	29.39
880								.003740	38.96	110.89	26.22
881								.003750	28.65	111.93	22.17
882								.003760	22.54	108.82	18.85
883								.003770	20.33	107.49	16.50
884								.003780	15.32	109.71	17.38
885								.003790	14.14	109.49	19.22
886								.003800	28.87	105.43	20.33
887								.003810	55.17	104.61	20.03
888								.003820	71.01	107.35	22.24
889								.003830	71.97	109.56	24.23
890								.003840	61.87	108.53	25.11
891								.003850	47.44	106.16	22.09
892								.003860	37.34	102.32	23.13
893								.003870	40.22	99.52	27.10
894								.003880	50.09	96.34	31.52
895								.003890	55.83	94.20	29.98
896								.003900	54.80	93.90	30.27

	L	M	N	O	P	Q	R	S	T
847	117.32	28.65	119.31	20.47	79.87	27.69	74.70	41.54	61.93
848	88.22	34.69	118.72	19.30	80.39	27.84	74.26	38.60	75.81
849	68.20	38.60	110.30	17.01	85.41	20.77	73.82	31.23	90.06
850	78.32	39.04	102.62	13.18	85.26	13.84	68.35	26.29	95.53
851	88.59	35.35	103.80	12.67	75.74	18.12	64.88	24.16	91.47
852	84.23	33.95	117.76	18.12	67.76	27.03	67.46	20.84	91.54
853	80.17	33.07	133.64	22.98	79.21	30.64	69.31	13.70	99.07
854	86.52	33.73	139.33	20.92	108.53	28.06	58.90	8.69	99.96
855	91.69	35.65	124.63	14.88	108.38	27.10	43.24	8.25	89.92
856	86.96	38.82	105.28	11.85	67.17	28.87	35.12	11.27	86.52
857	79.58	37.71	95.75	11.93	39.77	31.97	39.92	10.90	89.33
858	79.72	34.76	97.60	11.63	53.95	29.83	43.39	9.42	86.52
859	82.46	32.70	100.99	10.31	74.85	27.40	38.07	8.69	75.29
860	81.72	34.40	105.20	8.61	73.89	27.77	34.01	12.44	72.19
861	77.36	36.24	106.76	6.33	64.07	29.17	41.39	14.21	76.77
862	76.92	35.87	104.54	8.32	66.28	25.11	51.29	13.62	82.24
863	79.06	32.55	100.26	14.43	75.15	23.13	54.39	11.49	84.16
864	84.01	31.45	100.11	20.62	79.72	27.32	53.14	15.39	87.18
865	88.44	30.93	100.03	23.35	79.72	31.67	56.68	21.06	88.00
866	90.80	31.08	102.03	25.19	78.54	29.90	60.82	27.47	86.59
867	88.00	28.95	104.98	28.28	73.96	30.05	60.52	29.46	81.42
868	83.27	29.76	112.59	30.64	65.69	34.25	55.50	27.99	77.44
869	77.51	31.89	116.14	28.72	58.97	34.84	51.00	23.71	74.33
870	75.00	36.83	114.73	22.98	55.06	26.81	45.83	23.42	72.49
871	73.23	38.30	109.71	21.36	54.17	20.47	39.77	24.89	65.54
872	74.26	36.83	110.60	25.34	50.33	20.62	31.79	27.91	55.13
873	75.22	34.62	118.65	28.80	42.21	24.67	27.21	28.58	44.72
874	75.22	37.20	124.92	26.81	36.52	23.57	25.81	27.99	39.03
875	71.45	40.51	119.24	21.95	37.18	19.88	26.40	26.22	33.71
876	65.84	42.72	119.53	19.15	46.64	15.46	31.28	24.23	28.69
877	61.70	40.81	130.76	19.88	66.50	11.93	57.57	18.12	25.88
878	58.90	40.51	125.00	23.13	69.53	7.80	85.63	11.49	28.47
879	55.50	39.04	96.34	25.04	39.77	6.62	69.83	6.70	31.42
880	52.40	36.83	81.28	22.83	15.54	7.95	23.45	8.25	33.42
881	52.32	34.84	91.39	15.91	24.63	8.69	6.24	9.42	31.87
882	54.32	36.46	102.99	9.72	43.09	5.52	21.23	10.60	31.87
883	54.91	37.05	99.81	7.51	44.42	2.20	31.42	10.31	31.87
884	62.89	37.27	95.53	8.98	37.18	-1.63	22.86	11.49	34.89
885	75.44	36.75	96.27	8.98	36.89	-4.28	13.99	10.09	39.18
886	73.15	38.01	97.82	8.25	43.98	-5.31	13.11	9.20	46.71
887	56.02	38.15	95.97	7.29	46.56	-2.80	16.14	10.38	51.07
888	48.34	38.45	96.49	8.17	45.01	.07	18.13	17.23	54.61
889	53.73	38.01	98.56	11.04	43.24	4.41	21.90	23.20	58.16
890	56.90	39.48	102.92	14.29	40.14	9.79	24.19	23.94	62.07
891	52.10	41.47	104.47	15.91	33.71	11.27	23.74	20.18	61.26
892	52.69	45.67	101.07	15.17	26.18	2.20	19.68	20.03	58.45
893	60.74	46.55	90.51	15.91	21.08	-6.34	16.43	22.90	54.76
894	67.69	44.34	84.97	17.45	19.24	-6.86	13.11	25.04	50.77
895	63.99	41.98	86.74	18.34	16.87	.44	13.99	24.89	45.75
896	56.39	45.23	91.10	20.18	14.73	5.89	17.61	26.37	42.13

	U	V	W	X	Y	Z	AA	AB	AC	AD
847	.003410	324.27	161.09	41.84	120.96	29.90	72.17		0.00842	47.43507004
848	.003420	317.50	153.56	40.14	112.44	28.58	76.82		0.00843	41.68920135
849	.003430	319.04	150.16	37.15	103.48	23.00	83.10		0.00844	32.84941101
850	.003440	327.74	152.82	33.02	107.62	17.77	83.05		0.00845	22.53631783
851	.003450	332.08	158.87	28.21	119.36	18.31	77.36		0.00846	16.34846306
852	.003460	329.06	164.93	25.97	124.23	22.00	75.59		0.00847	11.70757198
853	.003470	322.06	166.41	25.63	118.18	22.44	82.53		0.00848	7.72966528
854	.003480	320.44	166.55	24.92	112.20	19.22	89.13		0.00849	7.21401072
855	.003490	324.49	170.25	23.05	107.84	16.74	80.51		0.0085	11.78123665
856	.003500	328.40	174.53	22.36	101.88	17.33	62.94		0.00851	18.70574188
857	.003510	331.20	175.42	23.03	95.31	18.26	56.34		0.00852	27.54553413
858	.003520	333.41	173.05	25.14	93.63	16.96	61.29		0.00853	36.82731628
859	.003530	337.53	172.39	27.72	96.32	15.46	62.74		0.00854	44.70946503
860	.003540	343.06	174.09	31.47	99.62	16.27	60.03		0.00855	49.93967819
861	.003550	346.67	174.97	34.45	99.22	16.57	60.74		0.00856	55.83287048
862	.003560	345.86	176.08	35.67	96.51	15.69	66.60		0.00857	60.98941803
863	.003570	339.15	174.97	36.36	94.40	16.35	71.23		0.00858	66.14596558
864	.003580	332.82	171.95	38.72	97.01	21.11	73.35		0.00859	69.68187714
865	.003590	334.66	168.18	41.84	100.80	25.36	74.80		0.0086	71.59716797
866	.003600	339.82	163.45	44.39	103.11	27.52	75.32		0.00861	71.81816101
867	.003610	342.10	161.38	43.87	102.72	29.26	71.97		0.00862	71.00785065
868	.003620	340.26	159.02	43.51	103.09	30.96	66.21		0.00863	66.14596558
869	.003630	340.11	153.70	43.65	102.87	29.09	61.43		0.00864	58.92679977
870	.003640	341.14	145.28	44.29	102.03	24.40	57.79		0.00865	54.65423203
871	.003650	340.70	140.93	41.93	100.08	22.24	53.16		0.00866	56.12753296
872	.003660	341.07	144.25	39.63	101.19	24.62	45.75		0.00867	57.60083008
873	.003670	340.92	147.35	39.38	104.98	27.35	38.05		0.00868	54.58056641
874	.003680	338.71	145.58	40.98	106.76	26.12	33.79		0.00869	49.35035706
875	.003690	335.03	142.26	40.46	102.50	22.68	32.43		0.0087	46.55109024
876	.003700	331.27	141.00	39.06	99.94	19.61	35.53		0.00871	46.69841766
877	.003710	331.86	144.69	38.45	101.59	16.64	49.99		0.00872	46.33009338
878	.003720	330.53	147.65	39.26	97.77	14.14	61.21		0.00873	38.96360016
879	.003730	326.63	150.45	38.25	86.86	12.79	47.01		0.00874	28.65050888
880	.003740	322.14	153.41	34.00	81.52	13.01	24.14		0.00875	22.53631783
881	.003750	321.62	154.44	28.55	85.21	11.34	20.91		0.00876	20.32637024
882	.003760	326.19	153.63	25.95	88.71	8.61	32.06		0.00877	15.31715393
883	.003770	330.39	152.89	24.62	87.41	6.67	35.90		0.00878	14.13851547
884	.003780	331.05	152.60	23.32	89.38	6.28	31.65		0.00879	28.87150383
885	.003790	330.02	151.86	23.37	93.73	4.93	30.02		0.0088	55.16988754
886	.003800	327.81	150.08	29.07	92.13	4.05	34.60		0.00881	71.00785065
887	.003810	324.94	148.83	37.78	85.53	4.95	37.92		0.00882	71.96549225
888	.003820	322.36	148.68	43.90	84.06	8.49	39.25		0.00883	61.87339783
889	.003830	323.68	149.12	44.73	87.28	12.89	41.10		0.00884	47.43507004
890	.003840	324.27	144.55	42.16	89.45	16.00	42.13		0.00885	37.3429718
891	.003850	322.43	138.27	37.00	87.58	15.78	39.57		0.00886	40.21590424
892	.003860	319.56	138.49	35.38	85.36	12.47	34.77		0.00887	50.08700562
893	.003870	317.05	145.58	37.96	83.59	10.82	30.76		0.00888	55.83287048
894	.003880	318.82	151.49	41.98	83.00	11.88	27.71		0.00889	54.80156326
895	.003890	323.61	150.08	42.60	81.64	14.56	25.54		0.0089	53.18093491
896	.003900	326.41	142.55	43.43	80.46	17.48	24.83		0.00891	57.15884018

	AE	AF	AG	AH	AI
847	25.40925026	38.59527588	17.01144791	20.76836014	31.22878075
848	18.3374176	39.03726578	13.18087101	13.84385586	26.29323006
849	16.42212868	35.35401917	12.66521645	18.11642265	24.15694809
850	21.43134499	33.95438385	18.11642265	27.02988052	20.84202385
851	27.47187042	33.07040405	22.97830772	30.63946152	13.69652557
852	29.31349373	33.73339081	20.91568947	28.06118965	8.68730927
853	25.77757645	35.64867783	14.87516499	27.10354424	8.24532032
854	21.0630188	38.81626892	11.85490227	28.87150383	11.26558208
855	19.58972168	37.71129608	11.92856693	31.96543121	10.8972578
856	21.9469986	34.76469803	11.63390732	29.82914734	9.42395878
857	22.90464401	32.70207977	10.30793858	27.3982048	8.68730927
858	23.19930267	34.39637375	8.6136446	27.76652908	12.4442215
859	22.38898849	36.23799896	6.33003139	29.16616249	14.21218014
860	21.21035004	35.86967087	8.31898499	25.1145916	13.62286091
861	20.69469452	32.55474854	14.43317509	23.12563705	11.48657703
862	23.71495819	31.4497757	20.62103081	27.32453918	15.39081955
863	28.42951393	30.93412209	23.346632	31.67077065	21.0630188
864	32.40742111	31.08145142	25.18825722	29.90281296	27.47187042
865	31.08145142	28.94516754	28.2821846	30.05014229	29.46082306
866	28.94516754	29.75548172	30.63946152	34.24904251	27.98752403
867	28.06118965	31.89176559	28.72417259	34.83836365	23.71495819
868	29.90281296	36.82731628	22.97830772	26.80888557	23.42029762
869	28.57684326	38.30061722	21.35767937	20.47369957	24.89359665
870	27.3982048	36.82731628	25.33558655	20.62103081	27.91385841
871	27.3982048	34.61737061	28.79783821	24.6726017	28.57684326
872	28.13485336	37.19564056	26.80888557	23.56762695	27.98752403
873	26.29323006	40.5105629	21.9469986	19.88438034	26.21956635
874	25.1145916	42.72051239	19.14773178	15.46448421	24.2306118
875	27.98752403	40.80522537	19.88438034	11.92856693	18.11642265
876	30.56579781	40.5105629	23.12563705	7.80333042	11.48657703
877	29.38715744	39.03726578	25.04092598	6.62469101	6.69835615
878	26.21956635	36.82731628	22.83097839	7.95066023	8.24532032
879	22.16799355	34.83836365	15.90647411	8.68730927	9.42395878
880	18.85307121	36.458992	9.71861839	5.51971722	10.60259819
881	16.49579239	37.04831314	7.50867033	2.20479465	10.30793858
882	17.37977219	37.26930618	8.98196888	-1.62578213	11.48657703
883	19.22139549	36.75365067	8.98196888	-4.27771997	10.08694363
884	20.32637024	38.00595474	8.24532032	-5.3090291	9.20296383
885	20.03170967	38.15328598	7.28767586	-2.80442119	10.38160324
886	22.24165916	38.44794464	8.1716547	0.06851147	17.23244286
887	24.2306118	38.00595474	11.04458809	4.41474295	23.19930267
888	25.1145916	39.47925568	14.2858448	9.79228401	23.93595314
889	22.09432793	41.46820831	15.90647411	11.26558208	20.17904091
890	23.12563705	45.66711044	15.1698246	2.20479465	20.03170967
891	27.10354424	46.55109024	15.90647411	-6.34033823	22.90464401
892	31.52344131	44.34114075	17.45343781	-6.85599279	25.04092598
893	29.97647667	41.98386383	18.3374176	0.43683618	24.89359665
894	30.27113724	45.22512054	20.17904091	5.88804197	26.36689568
895	34.47003937	50.30800247	23.12563705	8.46631432	27.98752403
896	39.33192444	53.91758347	26.58789063	8.90830421	31.08145142

	AJ	AK	AL	AM	AN
847	131.940155	68.20341492	110.3006744	85.41159058	73.81638336
848	141.910553	78.32152557	102.6197739	85.2638855	68.35112
849	165.6918182	88.58734894	103.8014526	75.73661041	64.87994385
850	170.7139435	84.2299118	117.7600174	67.76028442	67.46486664
851	140.7288818	80.16790009	133.6388092	79.20778656	69.31123352
852	110.7438049	86.51941681	139.3256378	108.5281601	58.89770126
853	107.1987763	91.68925476	124.6285172	108.3804474	43.2404747
854	113.4025803	86.9625473	105.2785492	67.16944885	35.11643982
855	110.5960999	79.57705688	95.75127411	39.76929474	39.91700745
856	103.5798874	79.72476959	97.59764099	53.94942856	43.38818359
857	105.5001144	82.45739746	100.9949646	74.85034943	38.07063675
858	111.9254837	81.71884918	105.204689	73.8902359	34.0086174
859	113.550293	77.36141205	106.7556458	64.06754303	41.394104
860	108.0850296	76.91828918	104.5400009	66.28318787	51.29065323
861	103.8753052	79.06007385	100.2564163	75.14576721	54.39255524
862	106.9033508	84.00835419	100.1087112	79.72476959	53.13702393
863	113.9195633	88.43964386	100.0348511	79.72476959	56.68205643
864	116.5044861	90.80299377	102.0289307	78.54309082	60.81792831
865	115.1750946	87.99651337	104.9831314	73.96408844	60.52251053
866	113.4025803	83.26980591	112.5901794	65.69234467	55.50037766
867	114.9535294	77.50912476	116.1352081	58.97155762	50.99523544
868	116.3567734	74.99806213	114.7319717	55.05725098	45.82539368
869	117.3168869	73.22554016	109.7098389	54.1709938	39.76929474
870	118.7201309	74.25951385	110.5960999	50.3305397	31.79297256
871	121.0834885	75.21962738	118.6462784	42.20650482	27.21397209
872	120.1233749	75.21962738	124.9239349	36.51968384	25.81072998
873	116.7999039	71.45302582	119.237114	37.18437576	26.40156937
874	114.4365463	65.84005737	119.5325317	46.63779831	31.27598953
875	112.2947617	61.70418549	130.7584686	66.50475311	57.5683136
876	109.4144211	58.89770126	124.9977951	69.53279877	85.63315582
877	108.7497253	55.50037766	96.34210968	39.76929474	69.82821655
878	110.8915176	52.39847565	81.27571869	15.54490662	23.44737434
879	111.9254837	52.32461929	91.39383698	24.62905312	6.23919535
880	108.8235779	54.3187027	102.9890442	43.09276581	21.23172951
881	107.494194	54.90954208	99.81328583	44.42215347	31.42369843
882	109.7098389	62.88586426	95.52970886	37.18437576	22.85653687
883	109.4882736	75.441185	96.26825714	36.88895798	13.99395466
884	105.4262543	73.15168762	97.81920624	43.97902298	13.10769653
885	104.6138535	56.0173645	95.97283936	46.56394196	16.13574409
886	107.3464813	48.33646011	96.48982239	45.01298904	18.12982559
887	109.5621262	53.72786331	98.55775452	43.2404747	21.89642334
888	108.5281601	56.90362167	102.9151917	40.13856888	24.18592262
889	106.1648026	52.10305786	104.4661408	33.71319962	23.74279404
890	102.3243561	52.69389343	101.0688248	26.18000412	19.6807785
891	99.51786804	60.74407196	90.50757599	21.08402061	16.43116379
892	96.34210968	67.68643188	84.96846771	19.23764801	13.10769653
893	94.20031738	63.99368668	86.74098206	16.87429428	13.99395466
894	93.9048996	56.38663864	91.09841919	14.73250294	17.61284256
895	95.89897919	50.7736702	90.58143616	15.54490662	22.04413223
896	94.79116058	49.88740921	88.14422607	18.20368004	24.18592262

	AO	AP	AQ	AR	AS
847	90.0644455	319.0432129	150.1588135	37.14653015	23.00286293
848	95.52970886	327.7356567	152.8175812	33.02129364	17.77265167
849	91.46768951	332.0819092	158.8736877	28.20851898	18.3128624
850	91.54154205	329.0616455	164.9297791	25.97401619	21.99610901
851	99.07473755	322.0634766	166.4068756	25.63024521	22.43809891
852	99.96099854	320.4428406	166.554596	24.91815186	19.22139549
853	89.91674042	324.4944153	170.2473297	23.05197334	16.74134254
854	86.51941681	328.3986511	174.5309143	22.36443329	17.33066177
855	89.32589722	331.1979065	175.4171753	23.02741814	18.26375198
856	86.51941681	333.4078674	173.0538178	25.1391468	16.96233749
857	75.29347992	337.5331116	172.3891296	27.71741867	15.46448421
858	72.1915741	343.0579834	174.0877838	31.4743309	16.27479935
859	76.77057648	346.6675415	174.9740448	34.44548416	16.56945801
860	82.23583221	345.8572388	176.0818634	35.67323303	15.68547916
861	84.15605927	339.153717	174.9740448	36.36077118	16.34846306
862	87.18411255	332.8185425	171.9459992	38.71805191	21.11212921
863	87.99651337	334.6601563	168.1793976	41.83653259	25.36013985
864	86.59326935	339.8167114	163.4526825	44.39025116	27.52098083
865	81.4234314	342.1003418	161.3847504	43.87459564	29.26438332
866	77.43527222	340.2586975	159.0213928	43.50627136	30.95867538
867	74.33336639	340.1113892	153.7038422	43.6536026	29.09249878
868	72.48699188	341.1426697	145.2843933	44.29203033	24.40249634
869	65.54463959	340.7006836	140.9269562	41.93475342	22.24165916
870	55.13110352	341.0690308	144.2504273	39.6265831	24.62349129
871	44.71757126	340.9216919	147.3523254	39.38103485	27.34909439
872	39.03074646	338.711731	145.5798187	40.977108	26.12134552
873	33.71319962	335.0285034	142.2563477	40.46145248	22.68364906
874	28.69106865	331.2715759	141.0008087	39.06182098	19.61427689
875	25.88458443	331.8609009	144.6935577	38.44794464	16.64312363
876	28.46950531	330.5349426	147.6477509	39.25825882	14.13851452
877	31.42369843	326.6306763	150.4542389	38.25150681	12.78799057
878	33.41777802	322.1371155	153.408432	34.00349426	13.00898647
879	31.86682701	321.62146	154.4423981	28.55228806	11.3392477
880	31.86682701	326.1886902	153.6299896	25.94946098	8.6136446
881	31.86682701	330.3876038	152.891449	24.62349129	6.67380142
882	34.89487839	331.0505981	152.5960236	23.3220768	6.28092146
883	39.17845917	330.0192871	151.8574829	23.37118721	4.93039751
884	46.71165085	327.8093262	150.0849609	29.06794357	4.04641819
885	51.06908798	324.9364014	148.829422	37.7849617	4.95495272
886	54.61412048	322.3581238	148.6817169	43.89915085	8.49086952
887	58.15915298	323.684082	149.1248474	44.73402023	12.8862114
888	62.07345963	324.273407	144.5458527	42.15574646	16.00469398
889	61.26105881	322.4317932	138.2681885	36.99920273	15.78369904
890	58.45457458	319.5588684	138.4897461	35.37857437	12.4687767
891	54.76182938	317.0542603	145.5798187	37.95684814	10.82359314
892	50.7736702	318.8222046	151.488205	41.98386383	11.87945747
893	45.75154114	323.6104431	150.0849609	42.59773636	14.55595016
894	42.13265228	326.4096985	142.5517578	43.43260574	17.47799301
895	36.81510162	325.9677124	138.5635986	45.98632431	19.85982513
896	28.83877945	323.8314209	139.0805817	50.13611603	22.19254875

	AT	AU
847	103.4814148	83.09747314
848	107.6172867	83.04824066
849	119.3602066	77.36141205
850	124.2346268	75.58889771
851	118.1785278	82.53125
852	112.1962891	89.12895203
853	107.8388519	80.51255798
854	101.8812256	62.93510056
855	95.30814362	56.33739853
856	93.63410187	61.28567505
857	96.31748962	62.73815536
858	99.61634064	60.03014374
859	99.22245026	60.74407578
860	96.51444244	66.60322571
861	94.39726257	71.23146057
862	97.00680542	73.34863281
863	100.7980194	74.80111694
864	103.1121368	75.31809998
865	102.7182465	71.97000885
866	103.0875244	66.20933533
867	102.8659515	61.43338776
868	102.0289383	57.78987885
869	100.0840912	53.16164398
870	101.1919174	45.75153732
871	104.9831314	38.04601669
872	106.7556458	33.78705215
873	102.4966812	32.43304825
874	99.93637848	35.53495026
875	101.5858078	49.98588562
876	97.76997375	61.2118187
877	86.86407471	47.00706863
878	81.52190399	24.13668633
879	85.21464539	20.91169167
880	88.71044159	32.06377411
881	87.40567017	35.90422821
882	89.37513733	31.64526367
883	93.73257446	30.02045822
884	92.13238525	34.59945679
885	85.53468323	37.92292404
886	84.05758667	39.25231171
887	87.28257751	41.0986824
888	89.44898987	42.13265228
889	87.57800293	39.57234955
890	85.36235809	34.77178574
891	83.58983612	30.75900459
892	82.99900055	27.70633888
893	81.64499664	25.53993034
894	80.46331787	24.82600021
895	79.08469391	24.80138016
896	77.60759735	23.74279404

	A	B	C	D	E	F	G	H	I	J	K
897								.003910	53.18	95.90	34.47
898								.003920	57.16	94.79	39.33
899								.003930	63.35	89.92	40.07
900								.003940	65.41	86.74	39.33
901								.003950	60.03	85.93	40.81
902								.003960	53.55	82.53	44.49
903								.003970	51.12	76.48	44.93
904								.003980	50.75	69.31	44.64
905								.003990	49.28	65.25	46.55
906								.004000	51.27	64.73	50.46
907								.004010	56.20	62.44	51.41
908								.004020	57.53	57.86	50.38
909								.004030	54.51	56.24	48.76
910								.004040	50.53	58.90	51.27
911								.004050	47.58	61.85	51.41
912								.004060	45.30	60.67	48.47
913								.004070	46.62	58.68	42.20
914								.004080	52.37	59.49	40.07
915								.004090	57.16	60.45	41.10
916								.004100	57.45	61.78	45.96
917								.004110	54.43	75.96	51.41
918								.004120	50.38	97.45	56.94
919								.004130	48.47	94.35	56.50
920								.004140	50.01	73.23	52.15
921								.004150	51.41	74.19	48.17
922								.004160	50.23	88.22	49.94
923								.004170	48.02	76.48	51.12
924								.004180	49.57	48.93	50.01
925								.004190	53.11	41.17	48.32
926								.004200	57.90	55.43	49.72
927								.004210	60.77	68.13	51.56
928								.004220	61.06	64.14	54.29
929								.004230	59.44	49.44	57.16
930								.004240	57.45	40.43	61.06
931								.004250	53.77	41.62	61.28
932								.004260	48.83	44.13	57.09
933								.004270	45.52	42.65	46.62
934								.004280	46.26	40.29	38.96
935								.004290	48.39	40.36	34.91
936								.004300	48.76	39.18	34.18
937								.004310	47.58	36.74	32.41
938								.004320	47.29	33.79	33.14
939								.004330	47.36	32.31	30.79
940								.004340	46.85	30.54	24.67
941								.004350	44.49	29.21	16.57
942								.004360	41.76	29.87	16.20
943								.004370	38.60	32.75	25.48
944								.004380	36.75	34.45	36.24
945								.004390	35.13	31.05	35.80
946								.004400	33.51	24.92	28.65

	L	M	N	O	P	Q	R	S	T
897	50.77	50.31	90.58	23.13	15.54	8.47	22.04	27.99	36.82
898	49.89	53.92	88.14	26.59	18.20	8.91	24.19	31.08	28.84
899	47.97	51.41	85.04	29.46	19.39	12.96	25.96	36.61	20.27
900	46.93	48.10	83.42	32.26	18.87	18.56	25.37	42.28	16.21
901	46.64	46.77	84.38	33.88	16.36	23.71	25.96	40.95	14.14
902	44.72	50.38	90.21	35.80	14.29	24.08	28.17	35.43	13.70
903	38.96	53.92	93.02	36.90	13.85	23.86	32.01	27.99	12.59
904	33.49	54.73	89.33	37.05	15.47	20.84	29.28	25.70	15.77
905	31.57	52.74	84.60	37.34	15.84	18.26	23.23	25.04	19.98
906	34.08	53.55	85.49	41.25	14.95	16.64	15.91	26.37	24.92
907	35.71	54.43	84.89	43.90	10.82	19.44	9.86	25.34	24.92
908	36.96	54.14	79.43	40.58	3.43	22.17	3.88	26.22	25.59
909	38.22	49.94	75.00	33.73	-12.30	24.53	.85	25.63	28.62
910	43.31	45.30	79.28	31.23	-35.19	23.86	-3.07	26.22	32.16
911	44.57	40.73	82.46	32.19	-38.89	26.44	-7.57	26.51	30.46
912	39.10	39.04	80.46	32.26	-10.08	33.59	-11.41	31.01	28.40
913	30.24	37.93	76.33	30.05	16.06	40.95	-12.89	34.84	25.59
914	27.58	38.15	74.70	31.08	11.70	40.36	-14.22	33.22	21.31
915	27.29	40.07	72.86	36.24	-2.70	37.42	-10.82	26.51	17.61
916	25.81	46.11	71.31	40.95	-5.65	36.46	-6.09	24.23	18.35
917	22.63	49.87	68.65	42.65	-4.32	38.30	-2.70	28.21	17.83
918	23.74	50.09	65.84	42.94	-10.38	40.14	-2.40	36.24	16.51
919	25.22	45.96	62.00	42.87	-19.54	42.72	-.92	37.12	14.29
920	26.25	41.47	60.74	42.43	-22.93	43.02	.55	33.00	15.03
921	24.19	37.56	59.19	43.09	-21.16	44.27	.40	30.93	19.02
922	24.04	38.30	56.90	44.71	-20.64	46.77	-1.07	34.47	26.84
923	23.67	40.44	50.92	45.74	-24.04	49.94	.04	36.24	32.46
924	22.04	40.07	45.01	48.10	-25.89	50.31	2.92	37.49	35.71
925	19.31	38.30	41.91	52.44	-24.41	51.27	8.53	38.67	37.11
926	19.90	42.79	44.27	57.09	-21.75	51.71	13.55	39.70	39.40
927	21.75	47.80	48.56	59.88	-22.93	49.87	17.91	34.84	35.78
928	22.41	47.14	49.74	63.42	-24.26	42.28	20.20	32.33	29.36
929	22.41	41.98	45.68	68.58	-22.64	37.42	21.90	33.44	20.64
930	23.15	40.36	44.35	70.42	-18.87	37.93	20.35	37.12	14.81
931	22.41	41.25	48.63	61.73	-15.99	39.63	17.32	35.50	9.41
932	22.78	40.66	54.84	50.23	-12.74	36.09	13.77	32.85	7.13
933	22.56	37.05	56.46	47.14	-8.53	32.19	11.70	30.42	3.80
934	24.48	34.76	54.69	50.38	-6.46	32.33	6.31	35.28	2.77
935	24.04	34.62	51.73	51.04	-7.87	38.82	-1.59	42.50	.70
936	23.00	37.20	51.22	46.26	-10.60	45.23	-9.94	46.26	-.11
937	21.08	36.68	49.67	38.60	-11.34	46.85	-14.51	41.91	-1.52
938	21.97	34.40	49.30	34.10	-7.57	41.03	-18.80	36.83	-1.07
939	21.60	31.08	50.40	35.35	-2.84	37.56	-21.75	33.44	-.63
940	21.38	34.69	52.99	41.10	-2.25	37.93	-27.66	32.78	-2.25
941	22.63	41.54	51.36	45.89	-5.87	38.37	-31.50	31.08	-6.54
942	23.74	43.97	43.68	43.68	-11.71	34.62	-35.05	29.39	-8.68
943	20.71	39.48	35.78	37.49	-18.95	29.53	-37.56	26.51	-8.46
944	17.61	37.12	36.22	35.06	-25.74	26.07	-40.51	27.03	-5.87
945	16.21	36.90	38.51	38.30	-30.98	27.77	-40.66	30.64	-5.50
946	15.54	35.28	36.89	39.33	-33.27	31.23	-39.40	38.08	-6.09

	U	V	W	X	Y	Z	AA	AB	AC	AD
897	.003910	325.97	138.56	45.99	79.08	19.86	24.80		0.00892	63.34669495
898	.003920	323.83	139.08	50.14	77.61	22.19	23.74		0.00893	65.40931702
899	.003930	325.38	138.19	51.61	74.31	26.34	21.87		0.00894	60.03177261
900	.003940	326.63	131.70	50.95	72.36	31.03	20.15		0.00895	53.54925919
901	.003950	326.93	128.81	49.20	72.31	32.85	18.82		0.00896	51.11831665
902	.003960	323.83	129.33	49.47	72.49	31.77	18.72		0.00897	50.74999237
903	.003970	320.59	127.71	49.99	69.48	29.58	19.48		0.00898	49.27669144
904	.003980	320.74	121.36	50.04	64.04	27.86	20.17		0.00899	51.26564407
905	.003990	326.85	116.33	49.52	60.47	26.88	19.68		0.009	56.20119476
906	.004000	333.78	114.27	51.76	61.43	28.09	18.60		0.00901	57.52716446
907	.004010	334.95	114.19	54.02	61.01	29.56	15.20		0.00902	54.5069046
908	.004020	330.90	111.61	54.02	58.09	29.66	10.97		0.00903	50.52899551
909	.004030	330.09	108.87	51.07	56.49	27.96	5.72		0.00904	47.58239746
910	.004040	332.38	109.69	49.03	60.50	27.10	-2.03		0.00905	45.29878616
911	.004050	335.91	119.73	46.58	62.96	28.38	-5.33		0.00906	46.62475586
912	.004060	336.35	132.14	44.27	60.08	32.28	2.30		0.00907	52.37062073
913	.004070	335.18	134.35	42.25	55.08	35.28	9.59		0.00908	57.15884018
914	.004080	336.65	129.33	43.53	53.92	34.89	6.26		0.00909	57.45349884
915	.004090	340.33	126.82	46.11	53.53	33.39	1.36		0.0091	54.43323898
916	.004100	340.33	129.55	49.84	52.96	33.88	2.20		0.00911	50.38166428
917	.004110	338.86	135.09	51.90	55.75	36.39	3.61		0.00912	48.46637726
918	.004120	335.10	135.09	52.47	62.34	39.77	1.24		0.00913	50.01334
919	.004130	335.91	131.33	50.31	60.52	40.90	-2.06		0.00914	51.41297531
920	.004140	338.56	123.35	47.88	53.41	39.48	-2.45		0.00915	50.23433685
921	.004150	340.33	116.04	45.72	52.52	39.43	-.58		0.00916	48.02438736
922	.004160	339.30	112.79	46.16	56.39	41.98	1.71		0.00917	49.5713501
923	.004170	338.27	116.92	46.53	50.36	43.97	2.82		0.00918	53.10726929
924	.004180	335.69	127.71	46.55	38.66	45.30	4.25		0.00919	57.89548874
925	.004190	332.60	143.22	46.58	34.13	47.46	7.08		0.0092	60.76842117
926	.004200	328.91	146.91	50.14	39.87	49.50	10.40		0.00921	61.06308365
927	.004210	331.79	130.51	53.38	46.15	48.20	10.25		0.00922	59.44245529
928	.004220	340.04	107.62	54.16	45.43	46.01	8.43		0.00923	57.45349884
929	.004230	348.29	95.88	52.86	39.18	46.48	6.63		0.00924	53.77025223
930	.004240	348.21	92.55	52.96	35.98	48.49	5.43		0.00925	48.83470154
931	.004250	345.12	91.81	52.10	37.55	45.62	3.58		0.00926	45.51977921
932	.004260	343.72	91.15	48.86	40.58	39.72	2.72		0.00927	46.25642776
933	.004270	345.78	90.78	43.06	40.56	36.58	2.32		0.00928	48.39271164
934	.004280	346.08	87.60	39.99	39.82	39.33	.87		0.00929	48.76103592
935	.004290	342.84	84.28	39.31	38.71	44.12	-2.92		0.0093	47.58239746
936	.004300	340.63	87.23	40.04	37.80	45.91	-6.88		0.00931	47.2877388
937	.004310	344.24	99.42	38.89	35.83	42.45	-9.12		0.00932	47.36140442
938	.004320	349.61	116.41	38.28	35.02	37.32	-9.15		0.00933	46.8457489
939	.004330	353.89	134.65	36.41	34.77	35.45	-8.41		0.00934	44.48847198
940	.004340	351.31	147.06	35.40	34.97	37.27	-10.72		0.00935	41.76286697
941	.004350	349.54	155.40	34.20	34.40	38.45	-14.64		0.00936	38.59527588
942	.004360	348.88	159.39	33.98	32.43	35.89	-18.48		0.00937	36.75365067
943	.004370	353.44	165.30	34.52	29.75	31.18	-21.65		0.00938	35.13302231
944	.004380	359.93	167.29	36.70	29.43	29.39	-24.04		0.00939	33.51239395
945	.004390	364.13	156.58	35.94	28.59	32.24	-25.72		0.0094	31.89176559
946	.004400	364.86	138.79	32.48	25.79	36.21	-26.26		0.00941	35.13302231

	AE	AF	AG	AH	AI
897	40.068573	51.41297531	29.46082306	12.95987606	36.60632324
898	39.33192444	48.09805298	32.26008987	18.55841255	42.27852249
899	40.80522537	46.77208328	33.88071823	23.71495819	40.9525528
900	44.48847198	50.38166428	35.79600906	24.08328247	35.42768478
901	44.93046188	53.91758347	36.9009819	23.86228752	27.98752403
902	44.63579941	54.72789764	37.04831314	20.84202385	25.70391083
903	46.55109024	52.73894501	37.3429718	18.26375198	25.04092598
904	50.4553299	53.54925919	41.24721527	16.64312363	26.36689568
905	51.41297531	54.43323898	43.89915085	19.44239044	25.33558655
906	50.38166428	54.13857651	40.58422852	22.16799355	26.21956635
907	48.76103592	49.93967819	33.73339081	24.52527237	25.63024521
908	51.26564407	45.29878616	31.22878075	23.86228752	26.21956635
909	51.41297531	40.73155975	32.18642426	26.44055939	26.51422501
910	48.46637726	39.03726578	32.26008987	33.58605957	31.0077858
911	42.20485687	37.93229294	30.05014229	40.9525528	34.83836365
912	40.068573	38.15328598	31.08145142	40.36323547	33.21773529
913	41.09988403	40.068573	36.23799896	37.41663742	26.51422501
914	45.9617691	46.10910034	40.9525528	36.458992	24.2306118
915	51.41297531	49.86601257	42.64684677	38.30061722	28.20851898
916	56.93784714	50.08700562	42.94150543	40.14223862	36.23799896
917	56.49585724	45.9617691	42.86784363	42.72051239	37.12197495
918	52.14962387	41.46820831	42.42585373	43.01517105	32.99673843
919	48.1717186	37.56396484	43.08883667	44.26747513	30.93412209
920	49.93967819	38.30061722	44.70946503	46.77208328	34.47003937
921	51.11831665	40.43689728	45.74077606	49.93967819	36.23799896
922	50.01334	40.068573	48.09805298	50.30800247	37.49030304
923	48.31904602	38.30061722	52.44428635	51.26564407	38.6689415
924	49.71868134	42.79417801	57.08517456	51.70763397	39.70024872
925	51.56030655	47.80339432	59.88444519	49.86601257	34.83836365
926	54.28590775	47.14040756	63.42036057	42.27852249	32.33375549
927	57.15884018	41.98386383	68.5769043	37.41663742	33.43872833
928	61.06308365	40.36323547	70.41853333	37.93229294	37.12197495
929	61.28407669	41.24721527	61.72606659	39.6265831	35.50134659
930	57.08517456	40.65789413	50.23433685	36.09066772	32.84941101
931	46.62475586	37.04831314	47.14040756	32.18642426	30.41846657
932	38.96360016	34.76469803	50.38166428	32.33375549	35.28035355
933	34.91202927	34.61737061	51.04465103	38.81626892	42.49951553
934	34.17538071	37.19564056	46.25642776	45.22512054	46.25642776
935	32.40742111	36.67998886	38.59527588	46.8457489	41.91019821
936	33.14406967	34.39637375	34.10171509	41.02621841	36.82731628
937	30.78679276	31.08145142	35.35401917	37.56396484	33.43872833
938	24.6726017	34.69103241	41.09988403	37.93229294	32.77574539
939	16.56945801	41.54187393	45.88810349	38.37427902	31.08145142
940	16.20113373	43.97281647	43.67815781	34.61737061	29.38715744
941	25.48291588	39.47925568	37.49030304	29.53448868	26.51422501
942	36.23799896	37.12197495	35.05935669	26.07223511	27.02988052
943	35.79600906	36.9009819	38.30061722	27.76652908	30.63946152
944	28.65050888	35.28035355	39.33192444	31.22878075	38.07962036
945	24.74626732	28.72417259	33.36506653	34.10171509	41.61553955
946	27.25087547	25.33558655	28.57684326	31.81810188	41.32087708

	AJ	AK	AL	AM	AN
897	89.91674042	47.96718597	85.04232025	19.38535881	25.95843887
898	86.74098206	46.93321609	83.41751099	18.86837387	25.36760139
899	85.92857361	46.63779831	84.37762451	16.35730934	25.95843887
900	82.53125763	44.71757126	90.2121582	14.2893734	28.17408562
901	76.47515869	38.95689392	93.01864624	13.84624481	32.01453781
902	69.31123352	33.49163437	89.32589722	15.47105122	29.28190804
903	65.2492218	31.57140923	84.59918976	15.84032536	23.225811
904	64.73223877	34.08247375	85.48545074	14.95406723	15.91418076
905	62.44273376	35.70727921	84.89460754	10.8181963	9.85808277
906	57.8637352	36.96281052	79.42935181	3.43271089	3.87583995
907	56.23892593	38.21834564	74.99806213	-12.29837227	0.84779125
908	58.89770126	43.31433105	79.2816391	-35.19337463	-3.06651568
909	61.85189819	44.56986237	82.45739746	-38.88611603	-7.57166147
910	60.67021942	39.10460281	80.46331787	-10.08272648	-11.41211319
911	58.67613602	30.24202156	76.32744598	16.06188965	-12.8892107
912	59.48854065	27.58324623	74.70263672	11.70445442	-14.21859837
913	60.44865417	27.28782654	72.85626984	-2.69724154	-10.82127476
914	61.77804184	25.81072998	71.30532074	-5.65143538	-6.09456444
915	75.95817566	22.63497162	68.64654541	-4.32204819	-2.69724154
916	97.44993591	23.74279404	65.84005737	-10.37814617	-2.40182209
917	94.34803009	25.21989059	61.99960709	-19.53614616	-0.92472512
918	73.22554016	26.25385857	60.74407196	-22.93346977	0.55237186
919	74.18565369	24.18592262	59.19312286	-21.16095352	0.40466216
920	88.21807861	24.03821373	56.90362167	-20.64397049	-1.07243478
921	76.47515869	23.66893959	50.92137909	-24.04129219	0.03538791
922	48.9272995	22.04413223	45.01298904	-25.88766479	2.9157269
923	41.17253876	19.31150436	41.91108704	-24.41056633	8.52869511
924	55.42652512	19.90234184	44.27444077	-21.75179291	13.55082512
925	68.12955475	21.74871254	48.55802536	-22.93346977	17.90826225
926	64.14139557	22.41340637	49.73970032	-24.26285744	20.19776154
927	49.44428253	22.41340637	45.67768478	-22.63805008	21.89642334
928	40.43399048	23.15195465	44.34829712	-18.87145424	20.34547043
929	41.61566925	22.41340637	48.6318779	-15.99111462	17.31742287
930	44.12673187	22.78268051	54.83568573	-12.74150085	13.77238941
931	42.64963531	22.56111717	56.46049118	-8.53177452	11.70445442
932	40.28628159	24.48134232	54.68797684	-6.46383858	6.31305027
933	40.36013412	24.03821373	51.73378372	-7.86708069	-1.58941877
934	39.17845917	23.00424576	51.21679688	-10.59971046	-9.93501663
935	36.74124908	21.08402061	49.66584778	-11.33825874	-14.51401711
936	33.78705215	21.97027779	49.29657364	-7.57166147	-18.79759789
937	32.3099556	21.60100365	50.40439606	-2.84495115	-21.75179291
938	30.53744125	21.3794384	52.98931503	-2.25411248	-27.66018105
939	29.20805359	22.63497162	51.36450958	-5.87300014	-31.50063324
940	29.87274742	23.74279404	43.68360519	-11.70753288	-35.04566574
941	32.75308609	20.71474648	35.78113556	-18.94530869	-37.55672836
942	34.45174789	17.61284256	36.22426224	-25.73995399	-40.51092529
943	31.05442429	16.20960045	38.51376343	-30.9836483	-40.65863419
944	24.92447281	15.54490662	36.88895798	-33.27314758	-39.40310287
945	21.82256889	13.99395466	29.94660187	-34.08555222	-37.11360168
946	27.65710068	14.51093864	25.95843887	-30.90979385	-34.23326111

	AO	AP	AQ	AR	AS
897	20.27161598	325.3783875	138.1943359	51.60941315	26.34234047
898	16.20960045	326.6306763	131.6950989	50.94643021	31.032341
899	14.14166355	326.925354	128.8147583	49.20302582	32.84941101
900	13.69853497	323.8314209	129.3317413	49.47313309	31.76899147
901	12.59071255	320.5901794	127.7069397	49.9887886	29.58359718
902	15.76647091	320.7374878	121.355423	50.0378952	27.86474991
903	19.97619629	326.8516846	116.3332901	49.5222435	26.88254929
904	24.92447281	333.7761841	114.265358	51.75674438	28.08574486
905	24.92447281	334.954834	114.1915054	54.01580429	29.55904198
906	25.58916473	330.9032593	111.6065826	54.01580048	29.6572628
907	28.6172142	330.0929565	108.8739548	51.06920624	27.96296883
908	32.1622467	332.3765564	109.6863556	49.03114319	27.10354424
909	30.4635849	335.9124756	119.7306137	46.57564545	28.38040352
910	28.39564896	336.3544617	132.1382294	44.26747513	32.28464508
911	25.58916473	335.1758118	134.3538818	42.25396729	35.28035355
912	21.30558395	336.6491089	129.3317413	43.53082657	34.88747406
913	17.61284256	340.3323669	126.8206787	46.10910034	33.38962173
914	18.35139084	340.3323669	129.5533142	49.84145737	33.88071823
915	17.8344059	338.8590698	135.0924225	51.90407562	36.38532639
916	16.50501823	335.1021729	135.0924225	52.46883774	39.77391434
917	14.2893734	335.9124756	131.3258209	50.30800247	40.90344238
918	15.02792263	338.5644226	123.3495026	47.87705612	39.47925568
919	19.01608467	340.3323669	116.0378723	45.71622086	39.43014526
920	26.84469795	339.3010559	112.7882614	46.15821075	41.98386383
921	32.4576683	338.2697449	116.9241333	46.52653503	43.97281647
922	35.70727921	335.6914673	127.7069397	46.55108643	45.29878616
923	37.11052322	332.5975647	143.2164612	46.57564545	47.45962524
924	39.4000206	328.9143066	146.909195	50.13611603	49.49768448
925	35.78113556	331.7872315	130.5134277	53.37737274	48.1962738
926	29.35576248	340.0377197	107.6184235	54.16313171	46.01087952
927	20.64089012	348.2881775	95.87550354	52.86172104	46.47742462
928	14.80635738	348.2145081	92.55203247	52.95993805	48.49093246
929	9.41495323	345.1206055	91.81348419	52.10051346	45.61800003
930	7.12545347	343.7209473	91.14878845	48.85925674	39.72480392
931	3.80198526	345.7835693	90.77951813	43.06428146	36.58176422
932	2.76801729	346.0782471	87.60375977	39.99490738	39.33192444
933	0.70008153	342.8369751	84.2802887	39.30736923	44.12014389
934	-0.11232179	340.6270447	87.23448181	40.04401779	45.91265869
935	-1.51556396	344.2366028	99.42053223	38.88993454	42.45040894
936	-1.07243478	349.6141663	116.4071503	38.27606201	37.3184166
937	-0.62930572	353.8867188	134.649292	36.40988159	35.45223618
938	-2.25411248	351.3084412	147.0569153	35.40312958	37.26930618
939	-6.5376935	349.5404968	155.4025116	34.19993591	38.44794464
940	-8.67948437	348.8775024	159.3906708	33.97893906	35.89422989
941	-8.45792007	353.4447327	165.299057	34.51914978	31.17967224
942	-5.87300014	359.9272461	167.2931366	36.70454025	29.38715744
943	-5.50372553	364.1261597	156.5841827	35.94333649	32.23553467
944	-6.09456444	364.862793	138.7851715	32.48108673	36.21343994
945	-7.71937132	368.4723816	128.2977753	28.45406914	36.36077499
946	-5.06059647	373.4815979	119.4351959	29.23982811	33.90527344

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897	74.30874634	21.87180519
898	72.36390686	20.14852524
899	72.31466675	18.81913757
900	72.48699951	18.72066498
901	69.48356628	19.48383141
902	64.04292297	20.17314339
903	60.47327423	19.6807785
904	61.43338776	18.59757423
905	61.0148735	15.20025063
906	58.08530045	10.96590519
907	56.48511124	5.72221088
908	60.49789047	-2.03254795
909	62.95972061	-5.33139753
910	60.07938004	2.30026984
911	55.08186722	9.58728123
912	53.9248085	6.2638135
913	53.53091812	1.36477542
914	52.96469879	2.20179701
915	55.74656296	3.60503864
916	62.34426117	1.24168336
917	60.52251053	-2.05716586
918	53.40782166	-2.45105839
919	52.5215683	-0.58006889
920	56.38663864	1.70943093
921	50.35515976	2.81725478
922	38.66147232	4.24511385
923	34.13171005	7.07621717
924	39.86776733	10.39968395
925	46.14543152	10.25197601
926	45.43149948	8.43022251
927	39.17845917	6.63308764
928	35.97808075	5.42679119
929	37.5536499	3.58042049
930	40.58169937	2.71878076
931	40.55708313	2.32488847
932	39.81853485	0.87240964
933	38.71070862	-2.91880608
934	37.79983521	-6.88234949
935	35.83037186	-9.12261295
936	35.01796722	-9.1472311
937	34.77178574	-8.40868282
938	34.96873093	-10.72280216
939	34.4025116	-14.6371088
940	32.43304825	-18.47756195
941	29.74965668	-21.65331841
942	29.42961693	-24.0412941
943	28.59259605	-25.71533585
944	25.78611183	-26.25693893
945	21.92104149	-26.30617523
946	22.70882607	-23.40121651

	A	B	C	D	E	F	G	H	I	J	K
947								.004410	31.89	21.82	24.75
948								.004420	35.13	27.66	27.25
949								.004430	40.14	37.63	27.77
950								.004440	45.37	38.44	25.11
951								.004450	47.14	26.40	25.78
952								.004460	42.20	15.84	32.70
953								.004470	33.88	16.58	39.77
954								.004480	34.62	22.04	45.89
955								.004490	46.04	24.11	47.73
956								.004500	50.68	24.63	46.99
957								.004510	45.52	28.25	42.87
958								.004520	43.46	30.09	41.69
959								.004530	48.39	27.88	42.57
960								.004540	49.57	25.07	46.04
961								.004550	41.54	25.37	46.33
962								.004560	34.18	26.48	44.34
963								.004570	36.83	25.00	39.85
964								.004580	44.93	23.89	38.30
965								.004590	48.69	24.26	39.11
966								.004600	47.88	24.78	40.36
967								.004610	47.66	23.96	40.07
968								.004620	48.91	22.71	43.09
969								.004630	46.33	19.90	46.33
970								.004640	42.94	16.73	47.80
971								.004650	45.08	13.85	46.11
972								.004660	54.65	13.85	47.44
973								.004670	60.33	14.66	49.94
974								.004680	58.12	13.85	51.12
975								.004690	55.54	10.45	49.72
976								.004700	58.71	9.41	49.72
977								.004710	62.46	10.01	50.82
978								.004720	62.24	10.97	52.74
979								.004730	60.47	8.68	52.15
980								.004740	60.47	.55	50.68
981								.004750	60.55	-4.91	49.72
982								.004760	58.93	1.44	54.51
983								.004770	56.57	10.97	58.63
984								.004780	55.83	10.89	59.37
985								.004790	54.21	5.50	54.80
986								.004800	49.65	4.10	48.17
987								.004810	39.63	5.28	40.73
988								.004820	30.49	7.94	41.62
989								.004830	32.70	11.34	50.38
990								.004840	42.13	11.04	54.36
991								.004850	43.60	5.28	45.30
992								.004860	40.07	.85	35.65
993								.004870	39.41	-.04	35.06
994								.004880	45.81	-.48	41.98
995								.004890	49.28	-4.03	45.96
996								.004900	46.11	-6.39	46.40

	L	M	N	O	P	Q	R	S	T
947	13.99	28.72	29.95	33.37	-34.09	34.10	-37.11	41.62	-7.72
948	14.51	25.34	25.96	28.58	-30.91	31.82	-34.23	41.32	-5.06
949	16.65	25.19	24.85	33.44	-26.11	27.03	-29.88	37.34	-1.44
950	18.87	28.50	25.81	44.05	-21.97	22.76	-26.77	36.75	2.77
951	19.61	33.51	25.52	52.67	-20.72	22.68	-25.74	36.09	2.62
952	19.39	41.10	27.29	55.10	-19.54	22.76	-26.18	38.67	1.14
953	18.50	46.26	28.91	52.00	-18.65	21.87	-25.59	40.36	-3.44
954	19.16	47.07	30.02	49.35	-19.09	19.07	-23.75	42.87	-3.81
955	19.61	44.78	28.62	47.51	-22.27	19.22	-19.54	42.87	-2.11
956	20.86	45.59	27.44	47.21	-24.26	21.06	-13.70	42.72	-1.74
957	19.61	46.26	25.88	47.80	-23.52	23.13	1.29	41.39	-6.83
958	17.17	44.78	26.25	50.09	-19.31	22.09	20.35	42.43	-9.49
959	14.51	41.91	25.00	52.00	-13.63	21.58	21.60	43.02	-8.01
960	13.03	42.65	22.63	52.15	-9.34	24.01	2.18	45.23	-3.95
961	9.41	41.03	19.75	51.41	-7.87	31.08	-11.56	46.85	-2.48
962	7.72	36.83	20.05	51.85	-9.79	33.59	-14.07	48.47	-4.17
963	6.31	30.93	21.97	50.46	-12.22	32.78	-15.84	46.85	-7.87
964	7.64	30.27	24.41	48.10	-10.75	31.82	-22.64	45.08	-8.83
965	9.05	31.08	25.37	46.85	-5.36	33.95	-26.92	44.34	-11.26
966	11.04	31.97	26.11	46.85	-2.62	34.03	-29.88	44.19	-15.70
967	10.15	29.31	24.63	45.52	-5.80	32.85	-32.24	41.10	-20.87
968	7.05	29.02	23.00	44.05	-10.08	31.74	-35.41	38.01	-23.01
969	1.51	31.67	20.94	44.64	-11.41	30.64	-37.41	34.91	-26.18
970	-.11	34.76	18.94	47.29	-11.26	26.96	-39.26	36.90	-28.99
971	-.56	33.44	16.58	48.61	-13.63	27.40	-40.36	38.23	-34.90
972	-.63	33.51	17.10	48.83	-18.72	28.72	-44.20	39.63	-39.11
973	-2.92	35.50	17.24	49.42	-24.41	26.51	-51.15	39.04	-42.43
974	-6.54	36.61	14.88	51.85	-26.77	24.01	-57.28	43.90	-41.99
975	-10.67	34.99	10.45	51.71	-27.81	29.76	-58.31	49.94	-42.87
976	-11.41	34.03	8.01	49.65	-30.17	37.86	-58.97	53.33	-42.95
977	-4.03	34.25	4.98	46.85	-35.93	41.03	-61.34	51.56	-44.35
978	14.44	36.24	.85	49.50	-39.77	37.86	-65.18	50.16	-43.98
979	25.29	37.71	-3.29	53.48	-40.22	35.13	-65.03	47.88	-45.02
980	15.91	40.95	-1.96	56.50	-35.34	33.88	-63.26	48.32	-43.17
981	.40	41.39	1.29	58.26	-30.17	33.88	-62.82	48.98	-38.89
982	-.33	39.92	4.02	59.15	-25.22	32.70	-63.48	51.56	-32.53
983	4.84	36.97	4.32	57.45	-21.46	35.35	-56.91	54.14	-27.07
984	7.13	35.35	5.72	54.65	-20.50	40.73	-45.24	56.20	-21.83
985	4.98	33.59	8.16	54.21	-20.87	46.85	-35.27	54.06	-17.39
986	5.80	33.37	12.00	58.19	-19.54	47.44	-31.43	52.08	-12.08
987	6.90	32.19	12.96	63.05	-19.68	46.40	-26.77	52.74	-7.50
988	9.86	30.20	11.34	65.11	-22.05	46.55	-20.27	54.14	-4.47
989	12.81	25.11	6.17	61.87	-23.97	47.66	-16.51	51.41	-3.73
990	14.44	22.39	3.21	56.27	-24.93	47.21	-17.84	49.06	-2.70
991	10.38	21.06	2.03	50.60	-26.18	50.38	-13.48	48.32	-4.84
992	6.76	22.98	2.77	48.76	-28.10	54.14	-3.44	51.41	-8.38
993	5.13	25.48	2.10	50.23	-28.55	55.76	3.21	53.11	-11.56
994	4.54	26.44	2.55	51.85	-25.89	56.94	3.65	53.11	-12.74
995	1.07	23.71	2.92	51.12	-22.79	58.48	5.28	50.31	-17.76
996	18	23.57	2.47	48.76	-22.34	57.01	9.19	52.08	-18.50

	U	V	W	X	Y	Z	AA	AB	AC	AD
947	.004410	368.47	128.30	28.45	21.92	36.36	-26.31		0.00942	40.14223862
948	.004420	373.48	119.44	29.24	22.71	33.91	-23.40		0.00943	45.37245178
949	.004430	377.16	107.54	31.03	26.38	32.60	-19.14		0.00944	47.14040756
950	.004440	373.04	90.93	33.00	27.71	34.52	-15.33		0.00945	42.20485687
951	.004450	369.14	78.08	35.48	23.84	37.15	-14.61		0.00946	33.88071823
952	.004460	367.96	68.92	38.67	20.84	38.84	-14.86		0.00947	34.61737061
953	.004470	368.03	64.49	39.97	21.33	38.08	-15.89		0.00948	46.03543472
954	.004480	366.85	65.67	42.52	23.74	37.10	-15.55		0.00949	50.67632675
955	.004490	365.23	67.88	46.18	24.11	36.53	-14.64		0.0095	45.51977921
956	.004500	365.38	66.04	47.75	24.31	37.00	-13.23		0.00951	43.45716095
957	.004510	365.82	60.20	44.88	24.58	37.44	-9.69		0.00952	48.39271164
958	.004520	366.04	52.82	43.31	24.51	38.20	-2.82		0.00953	49.5713501
959	.004530	368.99	45.28	44.29	22.46	38.87	-.01		0.00954	41.54187393
960	.004540	371.27	37.16	46.08	20.25	40.46	-3.71		0.00955	34.17538071
961	.004550	372.01	33.39	42.97	18.18	43.11	-7.30		0.00956	36.82731628
962	.004560	366.78	33.62	38.45	18.08	44.64	-9.34		0.00957	44.93046188
963	.004570	362.21	41.15	35.87	17.76	43.36	-11.98		0.00958	48.68737411
964	.004580	357.86	40.71	37.83	18.65	41.66	-14.07		0.00959	47.87705994
965	.004590	357.72	26.60	39.63	19.56	41.71	-14.51		0.0096	47.65606308
966	.004600	359.19	14.49	40.07	20.64	41.69	-16.06		0.00961	48.90836716
967	.004610	360.44	18.55	39.01	19.58	39.82	-19.63		0.00962	46.33009338
968	.004620	363.39	27.56	40.34	17.59	37.93	-22.83		0.00963	42.94150543
969	.004630	370.46	30.37	41.44	14.12	36.73	-25.00		0.00964	45.07778931
970	.004640	369.58	27.19	41.84	11.85	37.05	-26.50		0.00965	54.65423203
971	.004650	361.18	29.04	41.54	9.96	38.08	-29.63		0.00966	60.32643127
972	.004660	352.56	30.37	45.20	10.10	39.06	-34.01		0.00967	58.1164856
973	.004670	353.81	28.52	48.59	9.66	38.33	-39.33		0.00968	55.53821182
974	.004680	358.97	24.61	48.61	7.40	39.92	-42.01		0.00969	58.70580292
975	.004690	362.36	20.62	46.75	3.41	43.80	-43.00		0.0097	62.46271515
976	.004700	363.02	17.66	47.48	2.00	46.94	-44.03		0.00971	62.24172211
977	.004710	363.98	15.00	49.18	3.65	46.48	-47.21		0.00972	60.47376251
978	.004720	365.60	15.30	50.41	8.75	45.84	-49.64		0.00973	60.47376251
979	.004730	367.59	17.96	50.11	10.23	45.50	-50.09		0.00974	60.54742813
980	.004740	367.29	19.51	50.70	4.84	46.23	-47.26		0.00975	58.92679977
981	.004750	369.65	23.28	50.55	-1.07	47.04	-43.96		0.00976	56.56952286
982	.004760	371.27	22.91	51.12	1.71	47.80	-40.41		0.00977	55.83287048
983	.004770	375.40	20.10	50.73	6.71	48.98	-35.14		0.00978	54.21224213
984	.004780	375.84	13.38	50.19	7.91	50.53	-29.19		0.00979	49.64501572
985	.004790	373.33	10.35	47.53	6.21	51.71	-24.51		0.0098	39.6265831
986	.004800	367.29	11.68	43.73	7.30	52.57	-21.01		0.00981	30.49213219
987	.004810	360.30	12.79	37.51	8.38	54.06	-17.99		0.00982	32.70207977
988	.004820	353.15	10.43	34.10	9.71	55.27	-15.60		0.00983	42.13119125
989	.004830	350.65	9.54	36.07	10.10	53.65	-14.74		0.00984	43.60449219
990	.004840	350.35	10.94	39.63	9.56	50.85	-15.15		0.00985	40.068573
991	.004850	353.44	15.00	36.66	5.89	49.77	-14.83		0.00986	39.40559006
992	.004860	354.33	16.04	32.90	3.46	51.44	-13.31		0.00987	45.81443787
993	.004870	355.14	19.29	33.32	2.40	53.03	-12.30		0.00988	49.27669144
994	.004880	351.38	21.58	38.08	2.20	53.97	-11.66		0.00989	46.10910034
995	.004890	346.74	24.01	39.65	-.01	53.30	-11.76		0.0099	39.92124557
996	.004900	343.72	25.64	38.69	-1.24	52.62	-10.55		0.00991	40.9525528

	AE	AF	AG	AH	AI
947	27.76652908	25.18825722	33.43872833	27.02988052	37.3429718
948	25.1145916	28.50317955	44.04648209	22.75731277	36.75365067
949	25.77757645	33.51239395	52.66527939	22.68364906	36.09066772
950	32.70207977	41.09988403	55.09622192	22.75731277	38.6689415
951	39.77391434	46.25642776	52.00229645	21.87333488	40.36323547
952	45.88810349	47.06674194	49.35035706	19.07406616	42.86784363
953	47.7297287	44.78313065	47.50873184	19.22139549	42.86784363
954	46.99308014	45.59344482	47.21407318	21.0630188	42.72051239
955	42.86784363	46.25642776	47.80339432	23.12563705	41.39454269
956	41.68920135	44.78313065	50.08700562	22.09432793	42.42585373
957	42.57318115	41.91019821	52.00229645	21.57867432	43.01517105
958	46.03543472	42.64684677	52.14962387	24.00961685	45.22512054
959	46.33009338	41.02621841	51.41297531	31.08145142	46.8457489
960	44.34114075	36.82731628	51.85496521	33.58605957	48.46637726
961	39.84757996	30.93412209	50.4553299	32.77574539	46.8457489
962	38.30061722	30.27113724	48.09805298	31.81810188	45.07778931
963	39.1109314	31.08145142	46.8457489	33.95438385	44.34114075
964	40.36323547	31.96543121	46.8457489	34.02804947	44.19380951
965	40.068573	29.31349373	45.51977921	32.84941101	41.09988403
966	43.08883667	29.01883316	44.04648209	31.74443626	38.00595474
967	46.33009338	31.67077065	44.63579941	30.63946152	34.91202927
968	47.80339432	34.76469803	47.2877388	26.9562149	36.9009819
969	46.10910034	33.43872833	48.6137085	27.3982048	38.2269516
970	47.43507004	33.51239395	48.83470154	28.72417259	39.6265831
971	49.93967819	35.50134659	49.42402267	26.51422501	39.03726578
972	51.11831665	36.60632324	51.85496521	24.00961685	43.89915085
973	49.71868134	34.98569489	51.70763397	29.75548172	49.93967819
974	49.71868134	34.02804947	49.64501572	37.85862732	53.32826233
975	50.82365417	34.24904251	46.8457489	41.02621841	51.56030655
976	52.73894501	36.23799896	49.49768829	37.85862732	50.16067123
977	52.14962387	37.71129608	53.47559357	35.13302231	47.87705994
978	50.67632675	40.9525528	56.49585724	33.88071823	48.31904602
979	49.71868134	41.39454269	58.26381302	33.88071823	48.98203278
980	54.5069046	39.92124557	59.14779282	32.70207977	51.56030655
981	58.63214111	36.97464752	57.45349884	35.35401917	54.13857651
982	59.36878967	35.35401917	54.65423203	40.73155975	56.20119476
983	54.80156326	33.58605957	54.21224213	46.8457489	54.0649147
984	48.1717186	33.36506653	58.19015121	47.43507004	52.07595825
985	40.73155975	32.18642426	63.05203629	46.403759	52.73894501
986	41.61553955	30.19747162	65.11465454	46.55109024	54.13857651
987	50.38166428	25.1145916	61.87339783	47.65606308	51.41297531
988	54.35957336	22.38898849	56.27486038	47.21407318	49.05569839
989	45.29878616	21.0630188	50.60266113	50.38166428	48.31904602
990	35.64867783	22.97830772	48.76103592	54.13857651	51.41297531
991	35.05935669	25.48291588	50.23433685	55.75920868	53.10726929
992	41.98386383	26.44055939	51.85496521	56.93784714	53.10726929
993	45.9617691	23.71495819	51.11831665	58.48480988	50.30800247
994	46.403759	23.56762695	48.76103592	57.01150894	52.07595825
995	45.15145493	25.77757645	43.01517105	56.56952286	55.09622192
996	46.62475586	27.8401947	36.97464752	58.48480988	56.42219162

	AJ	AK	AL	AM	AN
947	37.62750626	16.65272903	24.85061646	-26.10922813	-29.87582588
948	38.43991089	18.86837387	25.81072998	-21.97335625	-26.77392197
949	26.40156937	19.60692215	25.51531029	-20.71782494	-25.73995399
950	15.84032536	19.38535881	27.28782654	-19.53614616	-26.18308258
951	16.57887459	18.49909973	28.9126339	-18.64988899	-25.5922451
952	22.04413223	19.16379356	30.02045631	-19.09301758	-23.7458725
953	24.11206818	19.60692215	28.6172142	-22.26877594	-19.53614616
954	24.62905312	20.86245537	27.43553734	-24.26285744	-13.70161438
955	28.24794006	19.60692215	25.88458443	-23.52430916	1.29092038
956	30.09431076	17.16971207	26.25385857	-19.31458282	20.34547043
957	27.87866592	14.51093864	24.99832726	-13.62775898	21.60100365
958	25.0721817	13.03384113	22.63497162	-9.3441782	2.17717862
959	25.36760139	9.41495323	19.75463295	-7.86708069	-11.55982304
960	26.47542381	7.71629238	20.05005264	-9.78730679	-14.07088852
961	24.99832726	6.31305027	21.97027779	-12.22451687	-15.84340477
962	23.89050484	7.64243746	24.40748787	-10.74742031	-22.63805008
963	24.25977898	9.04567909	25.36760139	-5.35601616	-26.92163277
964	24.77676201	11.03976059	26.10614967	-2.62338662	-29.87582588
965	23.96435928	10.15350246	24.62905312	-5.79914522	-32.23918152
966	22.70882607	7.05159855	23.00424576	-10.08272648	-35.41493988
967	19.90234184	1.51248491	20.93630981	-11.41211319	-37.40901947
968	16.72658348	-0.11232179	18.94222832	-11.2644043	-39.25539017
969	13.84624481	-0.55545086	16.57887459	-13.62775898	-40.36321259
970	13.84624481	-0.62930572	17.09585762	-18.72374344	-44.20366669
971	14.65864754	-2.91880608	17.24356842	-24.41056633	-51.1460228
972	13.84624481	-6.5376935	14.88021278	-26.77392197	-57.27597427
973	10.4489212	-10.67356491	10.4489212	-27.80788994	-58.30994415
974	9.41495323	-11.41211319	8.01171112	-30.17124557	-58.97463608
975	10.00579262	-4.02662897	4.98366261	-35.93192291	-61.33798981
976	10.96590519	14.43708324	0.84779125	-39.77237701	-65.17844391
977	8.67640495	25.29374695	-3.28808022	-40.21550369	-65.0307312
978	0.55237186	15.91418076	-1.95869303	-35.34108353	-63.25821686
979	-4.9128871	0.40466216	1.29092038	-30.17124557	-62.81509018
980	1.43862998	-0.33388633	4.02354956	-25.22297096	-63.4797821
981	10.96590519	4.83595324	4.31896925	-21.45637321	-56.90670013
982	10.89205074	7.12545347	5.72221136	-20.49625969	-45.23763275
983	5.50064659	4.98366261	8.15942097	-20.86553383	-35.26723099
984	4.09740448	5.79606628	11.99987316	-19.53614616	-31.42677689
985	5.2790823	6.9038887	12.95998669	-19.68385696	-26.77392197
986	7.93785667	9.85808277	11.33517933	-22.0472126	-20.27469635
987	11.33517933	12.81227684	6.16534042	-23.96743774	-16.5080986
988	11.03976059	14.43708324	3.21114635	-24.92755127	-17.83748627
989	5.2790823	10.37506676	2.02946877	-26.18308258	-13.48004913
990	0.84779125	6.75617933	2.76801729	-28.10330963	-3.43579006
991	-0.03846694	5.13137245	2.1033237	-28.54643822	3.21114635
992	-0.48159602	4.54053354	2.54645276	-25.88766479	3.65427542
993	-4.02662897	1.06935585	2.9157269	-22.78576088	5.2790823
994	-6.38998413	0.1830976	2.47259784	-22.34263039	9.19338894
995	-8.45792007	2.54645276	0.40466216	-24.63213158	17.76055145
996	-10.82127476	4.09740448	1.06935585	-23.08118057	26.69698906

	AO	AP	AQ	AR	AS
947	-1.44170904	377.1648254	107.5445633	31.032341	32.60385895
948	2.76801729	373.0396118	90.92722321	32.99674225	34.51914978
949	2.62030768	369.135376	78.07648468	35.47679138	37.14653015
950	1.14321065	367.9567261	68.91847992	38.6689415	38.84082413
951	-3.43579006	368.0303955	64.48719025	39.97035217	38.07962036
952	-3.8050642	366.8517456	65.66886902	42.52407074	37.09742355
953	-2.10640264	365.2311096	67.88451385	46.18276596	36.53265762
954	-1.7371285	365.3784485	66.03813934	47.75428391	36.99920273
955	-6.83311319	365.8204346	60.20360947	44.88135147	37.44119263
956	-9.49188805	366.0414429	52.81812286	43.30982971	38.20239639
957	-8.01479053	368.9880371	45.28492737	44.29203033	38.86537933
958	-3.95277381	371.271637	37.1608963	46.08454514	40.46145248
959	-2.47567701	372.0083008	33.39429855	42.96606064	43.11339188
960	-4.17433834	366.7780762	33.6158638	38.44794464	44.63579941
961	-7.86708069	362.210846	41.14905548	35.86967468	43.35894012
962	-8.82719421	357.864624	40.7059288	37.83407211	41.66464996
963	-11.2644043	357.7172852	26.59965134	39.62658691	41.71375656
964	-15.69569492	359.1905823	14.48745728	40.06857681	41.68920135
965	-20.86553383	360.4429016	18.54947281	39.01271057	39.82302475
966	-23.00732422	363.3894959	27.55976486	40.33868027	37.93228912
967	-26.18308258	370.4613342	30.36624908	41.44365311	36.72909546
968	-28.9895668	369.5773621	27.19049072	41.83653259	37.04831314
969	-34.89795685	361.1795349	29.03686142	41.54187393	38.07962036
970	-39.10768127	352.5607605	30.36624908	45.20056534	39.06182098
971	-42.43114853	353.8130493	28.51987839	48.58915329	38.32517242
972	-41.98802185	358.9696045	24.60557175	48.6137085	39.92124557
973	-42.87427902	362.3581848	20.61740875	46.74752808	43.80093002
974	-42.94813538	363.0211792	17.66321564	47.48417664	46.94396973
975	-44.35137558	363.9788208	15.00444126	49.17847061	46.47742462
976	-43.98210144	365.5994568	15.29986	50.4062233	45.83899689
977	-45.01607132	367.5884094	17.95863533	50.11156082	45.495224
978	-43.16969681	367.2937317	19.50958633	50.70088196	46.23187256
979	-38.88611603	369.6510315	23.27618408	50.55355072	47.04218674
980	-32.5345993	371.271637	22.90690994	51.11831665	47.80339432
981	-27.06934166	375.3968811	20.10042572	50.72543716	48.98203278
982	-21.82564735	375.8388672	13.3796339	50.18522644	50.52899551
983	-17.39435577	373.334259	10.35158539	47.53328705	51.70763397
984	-12.07680702	367.2937317	11.68097305	43.72726822	52.56705856
985	-7.49780655	360.2955627	12.78879547	37.51485443	54.0649147
986	-4.46975803	353.1500549	10.42543983	34.10171509	55.26810837
987	-3.73120928	350.6454468	9.53918171	36.06611252	53.64748001
988	-2.69724154	350.3507996	10.94242382	39.6265831	50.84820938
989	-4.83903217	353.4447327	15.00444126	36.65543365	49.76779175
990	-8.38406467	354.3287048	16.03840828	32.89852142	51.43753052
991	-11.55982304	355.1390381	19.28802109	33.31595612	53.03360367
992	-12.74150085	351.3821106	21.57752228	38.07962036	53.96669388
993	-17.76362991	346.7412109	24.01473236	39.65113831	53.30371094
994	-18.50217819	343.7209473	25.63953972	38.6934967	52.61616898
995	-15.76954937	343.5736389	28.22445869	36.95009232	51.56030655
996	-12.44608116	340.9216919	29.9231205	38.47249985	50.62721634

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947	26.37695122	-19.14225388
948	27.70633888	-15.32641983
949	23.84126663	-14.61249065
950	20.83783722	-14.8586731
951	21.3302021	-15.89264107
952	23.74279404	-15.54798508
953	24.11206818	-14.63710785
954	24.30901527	-13.23386669
955	24.57981491	-9.68883419
956	24.50596046	-2.82033348
957	22.46264458	-0.01384862
958	20.24699783	-3.70659113
959	18.17906189	-7.3008604
960	18.08058929	-9.3441782
961	17.76055145	-11.97833443
962	18.64681053	-14.07088852
963	19.55768585	-14.51401806
964	20.64089012	-16.06497002
965	19.58230591	-19.63462067
966	17.5882225	-22.83499718
967	14.1170454	-25.00140572
968	11.85216331	-26.50312042
969	9.95655632	-29.62964249
970	10.10426521	-34.01169586
971	9.66113663	-39.32924652
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973	3.4080925	-42.99737167
974	2.00485039	-44.03133774
975	3.65427542	-47.2070961
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978	4.83595324	-47.2563324
979	-1.0724349	-43.9574852
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982	7.91323853	-29.1865139
983	6.21457672	-24.50904083
984	7.29778147	-21.01324272
985	8.38098621	-17.98519516
986	9.71037292	-15.59722233
987	10.10426521	-14.73558235
988	9.56266308	-15.15409279
989	5.89453936	-14.83405495
990	3.45732927	-13.30772114
991	2.39874315	-12.29837132
992	2.20179677	-11.65829659
993	-0.01384874	-11.75676918
994	-1.2447629	-10.55047321
995	-1.83560169	-7.54704332
996	-1.8848381	-2.94342422

	A	B	C	D	E	F	G	H	I	J	K
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998								.004920	40.95	-10.82	46.62
999								.004930	45.67	-12.89	46.40
1000								.004940	47.66	-7.72	46.62
1001								.004950	43.90	2.18	47.66
1002								.004960	38.30	5.06	49.57
1003								.004970	34.84	-2.40	46.62
1004								.004980	35.65	-9.94	43.90
1005								.004990	39.18	-10.38	42.13
1006								.005000	39.48	-6.46	42.87
1007								.005010	36.31	-3.88	40.95
1008								.005020	34.69	-2.03	39.99
1009								.005030	39.18	1.07	39.33
1010								.005040	46.77	3.80	40.58
1011								.005050	52.44	2.25	39.33
1012								.005060	53.18	-1.59	38.30
1013								.005070	45.67	-4.03	37.42
1014								.005080	31.89	-3.51	35.94
1015								.005090	18.93	-4.32	30.49
1016								.005100	18.85	-5.73	27.91
1017								.005110	27.69	-7.13	30.05
1018								.005120	37.49	-4.84	36.24
1019								.005130	39.55	-.63	37.42
1020								.005140	34.40	2.92	35.50
1021								.005150	27.47	2.77	33.66
1022								.005160	26.66	1.07	34.91
1023								.005170	29.90	2.03	32.70
1024								.005180	30.64	4.91	30.34
1025								.005190	26.44	8.01	29.02
1026								.005200	22.68	8.01	32.26
1027								.005210	23.05	4.54	33.14
1028								.005220	26.96	4.54	31.23
1029								.005230	29.98	7.35	28.87
1030								.005240	31.38	9.05	32.26
1031								.005250	31.97	8.16	35.35
1032								.005260	32.11	8.53	36.75
1033								.005270	31.89	10.23	36.53
1034								.005280	29.90	11.34	35.94
1035								.005290	24.89	8.82	31.30
1036								.005300	22.17	6.31	27.55
1037								.005310	23.05	5.43	27.91
1038								.005320	27.10	8.45	31.82
1039								.005330	27.69	10.97	32.11
1040								.005340	26.44	11.19	31.52
1041								.005350	24.82	9.12	31.30
1042								.005360	27.10	10.01	35.43
1043								.005370	27.25	11.04	38.01
1044								.005380	25.19	11.04	38.23
1045								.005390	24.89	10.89	34.62
1046								.005400	27.84	12.44	31.97

	L	M	N	O	P	Q	R	S	T
997	2.55	25.78	.40	43.02	-24.63	56.57	17.76	55.10	-15.77
998	4.10	27.84	1.07	36.97	-23.08	58.48	26.70	56.42	-12.45
999	.40	25.92	4.76	32.26	-18.43	60.11	23.37	51.04	-14.59
1000	-2.70	24.60	7.79	31.23	-13.78	57.75	8.90	46.11	-13.33
1001	-1.66	23.94	6.39	30.20	-14.29	54.88	2.25	40.88	-11.56
1002	3.21	26.22	5.50	31.08	-15.40	50.90	1.88	40.58	-8.90
1003	3.80	30.79	6.61	30.71	-16.66	47.66	-2.84	41.91	-7.79
1004	2.47	34.99	8.82	30.34	-16.73	45.52	-14.81	42.65	-7.72
1005	2.62	32.11	7.49	29.90	-16.80	47.21	-23.01	39.77	-8.68
1006	5.57	27.91	4.25	29.83	-17.03	49.35	-27.00	40.51	-9.34
1007	4.91	26.66	1.59	28.87	-16.14	53.25	-28.92	45.45	-10.08
1008	4.10	28.58	2.62	27.32	-11.78	52.74	-34.45	51.41	-7.28
1009	6.39	27.25	8.01	26.59	-2.03	48.61	-38.59	53.55	2.77
1010	10.74	24.45	21.75	27.47	5.57	41.54	-38.81	50.75	26.55
1011	11.41	23.71	33.79	30.05	2.69	39.55	-32.39	42.43	41.98
1012	13.62	27.55	29.06	32.48	-1.37	38.82	-26.18	36.46	30.32
1013	16.95	29.46	13.26	31.08	2.69	39.48	-20.72	35.65	8.60
1014	19.46	29.68	9.86	26.59	6.83	39.70	-16.14	37.56	6.53
1015	19.46	27.25	17.10	23.86	3.06	41.17	-9.49	37.20	16.06
1016	21.08	24.60	21.60	26.88	-.78	41.54	-4.32	38.52	24.48
1017	22.27	23.86	18.28	33.22	2.55	42.35	1.73	37.34	27.44
1018	24.04	28.36	16.65	39.77	9.34	42.57	9.64	35.72	31.42
1019	24.92	29.53	16.95	42.50	18.57	44.27	19.02	33.29	36.00
1020	28.62	20.84	16.87	40.07	34.01	45.96	26.55	35.87	45.97
1021	32.01	9.28	15.77	35.21	37.63	48.17	33.12	37.71	58.75
1022	33.27	10.31	17.02	35.80	22.49	48.02	37.18	36.46	62.37
1023	29.95	21.43	19.53	38.60	7.79	47.44	38.37	31.52	47.38
1024	28.91	30.86	22.27	42.13	9.86	47.73	38.66	30.64	33.79
1025	30.54	33.29	21.90	44.34	17.39	49.65	41.47	31.45	33.57
1026	35.71	34.18	18.87	44.19	21.82	50.01	42.21	32.63	37.11
1027	39.99	33.73	17.83	41.17	22.63	51.12	40.14	29.90	31.20
1028	42.65	33.22	22.86	41.76	22.63	48.54	34.97	26.96	26.40
1029	41.62	30.93	27.58	48.10	22.78	43.97	32.61	25.63	29.36
1030	42.65	30.93	27.29	52.37	23.45	41.32	30.46	26.81	35.04
1031	42.80	32.78	22.12	50.46	23.60	44.86	28.76	26.81	34.30
1032	40.43	35.94	18.57	45.23	24.19	46.55	25.37	30.05	32.46
1033	34.97	36.24	19.46	41.32	26.55	46.26	24.48	34.32	33.34
1034	33.86	33.73	23.45	42.87	29.50	41.25	21.23	37.56	37.63
1035	36.15	32.63	24.19	47.36	31.05	37.56	18.28	36.61	39.99
1036	40.51	35.72	24.11	52.96	31.13	37.49	16.21	35.65	43.54
1037	42.21	36.90	27.51	54.29	30.32	41.54	18.72	33.29	47.38
1038	42.72	35.58	34.53	54.43	29.95	41.91	19.75	31.82	52.40
1039	43.24	33.29	39.03	55.39	29.58	38.82	17.76	30.64	54.98
1040	46.64	35.35	39.18	58.78	30.91	37.93	15.77	32.04	57.72
1041	47.89	37.71	34.45	62.09	31.72	41.54	18.43	30.34	58.23
1042	45.83	38.82	31.79	64.82	32.31	44.49	23.74	28.72	59.64
1043	41.32	35.58	31.13	62.02	30.39	44.49	28.03	26.22	58.31
1044	40.36	31.16	31.28	55.98	28.17	42.87	28.40	28.58	56.53
1045	40.14	26.66	28.99	50.23	24.33	41.69	28.32	30.05	54.91
1046	42.50	23.71	27.29	50.09	22.49	38.89	30.09	29.46	56.53

	U	V	W	X	Y	Z	AA	AB	AC	AD
997	.004910	343.57	28.22	36.95	-1.84	51.56	-7.55		0.00992	45.66711044
998	.004920	340.92	29.92	38.47	-1.88	50.63	-2.94		0.00993	47.65606308
999	.004930	336.50	29.63	39.33	-2.57	47.80	-3.21		0.00994	43.89915085
1000	.004940	335.32	30.37	39.63	-.88	45.03	-6.07		0.00995	38.30061722
1001	.004950	339.74	35.68	38.50	2.30	41.98	-7.87		0.00996	34.83836365
1002	.004960	342.98	43.07	38.03	4.59	40.85	-7.47		0.00997	35.64867783
1003	.004970	344.60	52.15	37.42	2.67	40.09	-9.10		0.00998	39.1845932
1004	.004980	346.08	55.92	38.18	.45	39.50	-13.09		0.00999	39.47925568
1005	.004990	350.50	55.11	37.81	-.09	38.96	-16.16		0.01	36.31166077
1006	.005000	347.99	48.68	36.75	1.12	39.90	-17.79		0.01001	34.69103241
1007	.005010	338.71	41.59	34.64	.87	42.52	-18.38		0.01002	39.1845932
1008	.005020	329.87	39.15	34.42	1.56	43.83	-17.84		0.01003	46.77208328
1009	.005030	329.72	45.58	35.26	5.16	42.92	-12.62		0.01004	52.44428635
1010	.005040	333.26	53.19	37.27	12.10	39.92	-2.23		0.01005	53.18093491
1011	.005050	338.42	54.81	38.50	15.82	37.34	4.10		0.01006	45.66711044
1012	.005060	339.45	50.16	39.68	13.70	35.92	.92		0.01007	31.89176559
1013	.005070	340.48	54.52	37.51	8.73	35.40	-3.14		0.01008	18.92673683
1014	.005080	337.46	63.08	32.51	8.60	34.62	-.92		0.01009	18.85307121
1015	.005090	335.62	69.58	25.56	10.74	34.08	3.21		0.0101	27.69286346
1016	.005100	333.11	66.11	23.79	12.32	35.65	6.46		0.01011	37.49030304
1017	.005110	332.45	54.37	27.20	11.14	37.64	10.57		0.01012	39.5529213
1018	.005120	331.93	40.12	34.03	11.95	39.36	16.80		0.01013	34.39637375
1019	.005130	329.21	39.67	35.50	13.75	40.02	24.53		0.01014	27.47187042
1020	.005140	324.72	55.03	30.25	16.14	40.63	35.51		0.01015	26.66155434
1021	.005150	320.59	66.85	23.47	16.85	40.36	43.17		0.01016	29.90281296
1022	.005160	317.94	66.92	23.96	17.12	40.09	40.68		0.01017	30.63946152
1023	.005170	317.79	65.52	28.01	17.17	39.18	31.18		0.01018	26.44055939
1024	.005180	317.42	66.56	30.61	18.70	40.17	27.44		0.01019	22.68364906
1025	.005190	316.02	69.95	29.58	20.15	41.81	30.81		0.0102	23.05197334
1026	.005200	310.35	71.06	29.71	20.86	42.28	33.71		0.01021	26.9562149
1027	.005210	306.00	73.35	29.98	20.79	40.73	31.33		0.01022	29.97647667
1028	.005220	306.45	73.79	30.47	23.35	39.09	28.00		0.01023	31.37611198
1029	.005230	312.34	74.61	29.93	25.52	39.23	28.25		0.01024	31.96543121
1030	.005240	318.97	78.37	31.52	26.33	40.17	29.65		0.01025	32.11276245
1031	.005250	321.70	83.39	33.37	24.36	40.71	28.89		0.01026	31.89176559
1032	.005260	320.30	85.02	34.94	22.51	40.61	27.34		0.01027	29.90281296
1033	.005270	320.96	86.05	34.89	21.55	40.63	28.12		0.01028	24.89359665
1034	.005280	321.33	87.83	33.19	22.88	40.56	29.45		0.01029	22.16799355
1035	.005290	320.96	97.28	29.61	23.05	40.51	29.77		0.0103	23.05197334
1036	.005300	317.35	102.52	28.48	23.64	42.03	30.29		0.01031	27.10354424
1037	.005310	318.09	101.12	29.29	25.05	43.04	32.14		0.01032	27.69286346
1038	.005320	320.88	97.50	31.50	28.57	42.72	34.03		0.01033	26.44055939
1039	.005330	321.99	99.64	31.03	31.08	41.62	34.11		0.01034	24.81993103
1040	.005340	324.42	103.70	31.11	32.33	42.92	34.80		0.01035	27.10354424
1041	.005350	331.79	105.62	31.28	30.49	44.66	36.13		0.01036	27.25087547
1042	.005360	339.67	106.58	33.78	29.21	46.01	38.56		0.01037	25.18825722
1043	.005370	342.54	107.62	33.61	27.83	44.24	38.91		0.01038	24.89359665
1044	.005380	335.91	106.29	31.52	27.56	42.47	37.70		0.01039	27.8401947
1045	.005390	326.78	106.44	28.72	26.67	40.66	35.85		0.0104	27.32453918
1046	.005400	318.09	109.17	27.84	27.41	39.48	36.37		0.01041	23.71495819

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997	46.403759	25.92490578	32.26008987	60.10543823	51.04465103
998	46.62475586	24.59893608	31.22878075	57.74816132	46.10910034
999	47.65606308	23.93595314	30.19747162	54.87522888	40.87888718
1000	49.5713501	26.21956635	31.08145142	50.89731979	40.58422852
1001	46.62475586	30.78679276	30.71312714	47.65606308	41.91019821
1002	43.89915085	34.98569489	30.34480286	45.51977921	42.64684677
1003	42.13119125	32.11276245	29.90281296	47.21407318	39.77391434
1004	42.86784363	27.91385841	29.82914734	49.35035706	40.5105629
1005	40.9525528	26.66155434	28.87150383	53.25460052	45.44611359
1006	39.99491119	28.57684326	27.32453918	52.73894501	51.41297531
1007	39.33192444	27.25087547	26.58789063	48.6137085	53.54925919
1008	40.58422852	24.45160675	27.47187042	41.54187393	50.74999237
1009	39.33192444	23.71495819	30.05014229	39.5529213	42.42585373
1010	38.30061722	27.54553413	32.48108673	38.81626892	36.458992
1011	37.41663742	29.46082306	31.08145142	39.47925568	35.64867783
1012	35.94333649	29.68181801	26.58789063	39.70024872	37.56396484
1013	30.49213219	27.25087547	23.86228752	41.17354965	37.19564056
1014	27.91385841	24.59893608	26.88254929	41.54187393	38.52161026
1015	30.05014229	23.86228752	33.21773529	42.35218811	37.3429718
1016	36.23799896	28.35584831	39.77391434	42.57318115	35.72234344
1017	37.41663742	29.53448868	42.49951553	44.26747513	33.29140091
1018	35.50134659	20.84202385	40.068573	45.9617691	35.86967087
1019	33.65972519	9.27662945	35.20668793	48.1717186	37.71129608
1020	34.91202927	10.30793858	35.79600906	48.02438736	36.458992
1021	32.70207977	21.43134499	38.59527588	47.43507004	31.52344131
1022	30.34480286	30.86045647	42.13119125	47.7297287	30.63946152
1023	29.01883316	33.29140091	44.34114075	49.64501572	31.4497757
1024	32.26008987	34.17538071	44.19380951	50.01334	32.62841415
1025	33.14406967	33.73339081	41.17354965	51.11831665	29.90281296
1026	31.22878075	33.21773529	41.76286697	48.54004288	26.9562149
1027	28.87150383	30.93412209	48.09805298	43.97281647	25.63024521
1028	32.26008987	30.93412209	52.37062073	41.32087708	26.80888557
1029	35.35401917	32.77574539	50.4553299	44.85679626	26.80888557
1030	36.75365067	35.94333649	45.22512054	46.55109024	30.05014229
1031	36.53265762	36.23799896	41.32087708	46.25642776	34.32270813
1032	35.94333649	33.73339081	42.86784363	41.24721527	37.56396484
1033	31.30244637	32.62841415	47.36140442	37.56396484	36.60632324
1034	27.54553413	35.72234344	52.95993805	37.49030304	35.64867783
1035	27.91385841	36.9009819	54.28590775	41.54187393	33.29140091
1036	31.81810188	35.57501221	54.43323898	41.91019821	31.81810188
1037	32.11276245	33.29140091	55.39088058	38.81626892	30.63946152
1038	31.52344131	35.35401917	58.77946854	37.93229294	32.03909683
1039	31.30244637	37.71129608	62.09439087	41.54187393	30.34480286
1040	35.42768478	38.81626892	64.81999207	44.48847198	28.72417259
1041	38.00595474	35.57501221	62.02072525	44.48847198	26.21956635
1042	38.2269516	31.15511703	55.98020172	42.86784363	28.57684326
1043	34.61737061	26.66155434	50.23433685	41.68920135	30.05014229
1044	31.96543121	23.71495819	50.08700562	38.88993454	29.46082306
1045	27.69286346	21.43134499	51.92863083	36.67998886	25.04092598
1046	24.15694809	21.0630188	53.77025223	36.53265762	21.35767937

	AJ	AK	AL	AM	AN
997	-12.8892107	0.40466216	4.76209831	-18.42832375	23.3735199
998	-7.71937132	-2.69724154	7.79014683	-13.77546883	8.8979702
999	2.17717862	-1.66327357	6.38690472	-14.29245281	2.25103331
1000	5.05751753	3.21114635	5.50064659	-15.40027523	1.88175917
1001	-2.40182209	3.80198526	6.60846949	-16.6558075	-2.84495115
1002	-9.93501663	2.47259784	8.8241148	-16.72966194	-14.8094368
1003	-10.37814617	2.62030768	7.49472761	-16.8035183	-23.00732422
1004	-6.46383858	5.57450151	4.24511433	-17.02508163	-26.99548721
1005	-3.87891912	4.90980816	1.58633971	-16.13882446	-28.91571236
1006	-2.03254795	4.09740448	2.62030768	-11.78138828	-34.45482635
1007	1.06935585	6.38690472	8.01171112	-2.03254795	-38.59069824
1008	3.80198526	10.7443409	21.74871254	5.57450151	-38.81226349
1009	2.25103331	11.40903473	33.78705215	2.69416237	-32.38689041
1010	-1.58941877	13.62468052	29.06034279	-1.36785424	-26.18308258
1011	-4.02662897	16.94814873	13.25540543	2.69416237	-20.71782494
1012	-3.50964475	19.45921326	9.85808277	6.83003378	-16.13882446
1013	-4.32204819	19.45921326	17.09585762	3.06343675	-9.49188805
1014	-5.7252903	21.08402061	21.60100365	-0.77701545	-4.32204819
1015	-7.12853241	22.26569748	18.27753639	2.54645276	1.73404944
1016	-4.83903217	24.03821373	16.65272903	9.34109879	9.63651848
1017	-0.62930572	24.92447281	16.94814873	18.57295418	19.01608467
1018	2.9157269	28.6172142	16.87429428	34.0086174	26.54927826
1019	2.76801729	32.01453781	15.76647091	37.62750626	33.12236023
1020	1.06935585	33.27006912	17.02200317	22.48726273	37.18437576
1021	2.02946877	29.94660187	19.5330677	7.79014683	38.36605453
1022	4.90980816	28.9126339	22.26569748	9.85808277	38.66147232
1023	8.01171112	30.53744125	21.89642334	17.39127731	41.46795654
1024	8.01171112	35.70727921	18.86837387	21.82256889	42.20650482
1025	4.54053354	39.99085999	17.8344059	22.63497162	40.13856888
1026	4.54053354	42.64963531	22.85653687	22.63497162	34.96873093
1027	7.34701777	41.61566925	27.58324623	22.78268051	32.6053772
1028	9.04567909	42.64963531	27.28782654	23.44737434	30.4635849
1029	8.15942097	42.79734421	22.11798859	23.59508514	28.764925
1030	8.52869511	40.43399048	18.57295418	24.18592262	25.36760139
1031	10.22735691	34.96873093	19.45921326	26.54927826	24.48134232
1032	11.33517933	33.86090851	23.44737434	29.50347328	21.23172951
1033	8.8241148	36.1504097	24.18592262	31.05442429	18.27753639
1034	6.31305027	40.50784683	24.11206818	31.12827873	16.20960045
1035	5.42679167	42.20650482	27.50939178	30.31587601	18.72066498
1036	8.45484066	42.72349167	34.52560043	29.94660187	19.75463295
1037	10.96590519	43.2404747	39.03074646	29.57732773	17.76055145
1038	11.18747044	46.63779831	39.17845917	30.90671539	15.76647091
1039	9.11953449	47.89332962	34.45174789	31.71911812	18.42524529
1040	10.00579262	45.82539368	31.79297256	32.3099556	23.74279404
1041	11.03976059	41.32024765	31.12827873	30.38973045	28.02637482
1042	11.03976059	40.36013412	31.27598953	28.17408562	28.39564896
1043	10.89205074	40.13856888	28.98648834	24.33363342	28.32179451
1044	12.4430027	42.50192642	27.28782654	22.48726273	30.09431076
1045	14.51093864	43.31433105	26.99240685	21.82256889	36.07655334
1046	17.09585762	44.71757126	27.14011765	23.89050484	48.26260376

	AO	AP	AQ	AR	AS
997	-14.58787251	336.5018005	29.62770081	39.33192444	47.80339432
998	-13.33233929	335.3231506	30.36624908	39.62658691	45.02867889
999	-11.55982304	339.743042	35.68379974	38.49705505	41.98386383
1000	-8.90104866	342.984314	43.06928253	38.03050995	40.85433197
1001	-7.79322624	344.60495	52.15343094	37.41663742	40.0931282
1002	-7.71937132	346.0782471	55.92002869	38.17784119	39.50381088
1003	-8.67948437	350.4981384	55.10762405	37.80951691	38.96360016
1004	-9.3441782	347.9935303	48.68225098	36.75365448	39.89669037
1005	-10.08272648	338.711731	41.59218597	34.641922	42.52407074
1006	-7.27624226	329.8719482	39.15497589	34.42092896	43.82548523
1007	2.76801729	329.7246094	45.58034897	35.25579834	42.91695404
1008	26.54927826	333.2605286	53.187397	37.26930618	39.92124557
1009	41.98494339	338.4170837	54.81220245	38.49705505	37.3429718
1010	30.31587601	339.4483948	50.15934753	39.67569733	35.91878128
1011	8.60255051	340.4797058	54.51678467	37.51485825	35.40312958
1012	6.53461456	337.4594421	63.08394623	32.50563812	34.61736679
1013	16.06188965	335.6178284	69.58317566	25.5565815	34.07715988
1014	24.48134232	333.1132202	66.11199951	23.7886219	35.64867783
1015	27.43553734	332.4502258	54.36907578	27.20176506	37.63763046
1016	31.42369843	331.9345703	40.11508942	34.02804947	39.35647964
1017	36.00270081	329.2089539	39.67195892	35.5013504	40.01946259
1018	45.97310257	324.7153931	55.0337677	30.24658203	40.63333893
1019	58.74999237	320.5901794	66.85054779	23.46940804	40.36323547
1020	62.36888123	317.9382324	66.92440033	23.96050644	40.0931282
1021	47.37634659	317.7908936	65.52115631	28.01207924	39.18459702
1022	33.78705215	317.4225769	66.55512238	30.61490631	40.16679382
1023	33.56549072	316.0229492	69.95244598	29.58359718	41.81197739
1024	37.11052322	310.3507385	71.06027222	29.70637321	42.27852249
1025	31.20213318	306.0045166	73.34976959	29.97647858	40.73155975
1026	26.40156937	306.4465027	73.79290009	30.46757698	39.08637619
1027	29.35576248	312.3396912	74.6053009	29.92736816	39.23370361
1028	35.04258728	318.9695435	78.37190247	31.52344131	40.16679382
1029	34.304039	321.6951294	83.39402771	33.36506653	40.70700455
1030	32.4576683	320.2955017	85.01883698	34.93658447	40.60878372
1031	33.34392548	320.9584961	86.05280304	34.88747406	40.63333893
1032	37.62750626	321.3268127	87.82532501	33.19318008	40.55967331
1033	39.99085999	320.9584961	97.27873993	29.60815239	40.5105629
1034	43.53589249	317.3489075	102.5224381	28.47862434	42.03297424
1035	47.37634659	318.0855713	101.119194	29.28893852	43.03972626
1036	52.39847565	320.8848267	97.50030518	31.49888611	42.72051239
1037	54.98339462	321.9898071	99.64209747	31.03234291	41.61553574
1038	57.71602631	324.4207459	103.7041168	31.10600662	42.91695404
1039	58.23300934	331.7872315	105.6243439	31.27789116	44.66035461
1040	59.63624954	339.6693726	106.5844498	33.78250122	46.01087952
1041	58.30686188	342.5423279	107.6184235	33.61061478	44.24291992
1042	56.53434753	335.9124756	106.289032	31.52344131	42.47496414
1043	54.90954208	326.7780151	106.4367447	28.7241745	40.65789413
1044	56.53434753	318.0855713	109.1693726	27.8401947	39.47925568
1045	55.35266876	315.4336243	115.9640198	25.48291588	37.88318253
1046	54.1709938	316.9805908	119.7306137	22.97830772	37.22019577

	AT	AU
997	-2.57415009	-3.21422553
998	-0.8754887	-6.06994581
999	2.30026984	-7.86708069
1000	4.58977032	-7.4731884
1001	2.66954422	-9.0979948
1002	0.45389867	-13.08615685
1003	-0.08770362	-16.16344261
1004	1.11859238	-17.78824997
1005	0.87240958	-18.37908745
1006	1.56172144	-17.83748627
1007	5.1559906	-12.61841011
1008	12.09834671	-2.22949457
1009	15.81570625	4.09740496
1010	13.69853497	0.92164642
1011	8.72564125	-3.14037061
1012	8.60255051	-0.92472535
1013	10.7443409	3.21114612
1014	12.319911	6.46075964
1015	11.13823414	10.5720129
1016	11.95063686	16.80043793
1017	13.74777222	24.53058052
1018	16.135746	35.51033401
1019	16.84967613	43.16661835
1020	17.12047577	40.68017197
1021	17.16971207	31.17751694
1022	18.69604683	27.43553543
1023	20.14852524	30.80824089
1024	20.86245537	33.71319962
1025	20.78859901	31.32522392
1026	23.34890175	28.00175667
1027	25.51531029	28.24794006
1028	26.32771301	29.65118217
1029	24.35825157	28.88801575
1030	22.51187897	27.33706474
1031	21.55176735	28.12484932
1032	22.88115311	29.45423698
1033	23.05348206	29.77427292
1034	23.64432144	30.29125786
1035	25.04756355	32.13763046
1036	28.56797791	34.03323746
1037	31.07904243	34.10709
1038	32.33457565	34.79640579
1039	30.48820496	36.12578964
1040	29.20805359	38.56299973
1041	27.82942963	38.90765381
1042	27.55862808	37.70136261
1043	26.672369	35.8549881
1044	27.41091919	36.37197495
1045	28.27255821	37.75059509
1046	29.65118217	42.10803223

	A	B	C	D	E	F	G	H	I	J	K
1047								.005410	27.32	14.51	27.69
1048								.005420	23.71	17.10	24.16
1049								.005430	21.36	19.16	21.65
1050								.005440	20.77	19.98	24.60
1051								.005450	19.22	18.87	25.48
1052								.005460	20.25	17.83	24.16
1053								.005470	23.79	16.51	22.39
1054								.005480	25.56	15.99	25.19
1055								.005490	23.27	14.51	25.04
1056								.005500	22.24	15.77	19.52
1057								.005510	23.94	19.02	12.67
1058								.005520	28.58	23.74	12.15
1059								.005530	31.89	25.81	15.17
1060								.005540	33.29	25.59	16.94
1061								.005550	31.45	24.41	12.52
1062								.005560	31.52	24.92	7.66
1063								.005570	32.70	22.12	8.98
1064								.005580	35.06	19.02	16.50
1065								.005590	35.80	18.28	22.54
1066								.005600	35.72	18.87	24.30
1067								.005610	33.00	17.54	22.98
1068								.005620	31.08	17.10	23.86
1069								.005630	32.85	17.02	23.42
1070								.005640	38.45	17.61	23.64
1071								.005650	41.47	16.28	21.73
1072								.005660	40.66	16.36	20.92
1073								.005670	37.27	17.02	18.85
1074								.005680	35.06	17.76	18.93
1075								.005690	33.66	16.14	18.71
1076								.005700	33.59	12.37	18.93
1077								.005710	34.54	8.75	18.78
1078								.005720	34.91	10.45	22.61
1079								.005730	29.31	15.10	26.44
1080								.005740	22.24	16.95	26.81
1081								.005750	20.33	14.66	22.24
1082								.005760	26.81	15.25	19.37
1083								.005770	31.16	18.20	19.74
1084								.005780	28.72	20.35	20.33
1085								.005790	22.68	19.46	16.20
1086								.005800	22.02	21.16	11.93
1087								.005810	23.27	23.15	12.52
1088								.005820	24.01	24.48	15.83
1089								.005830	25.19	24.92	15.02
1090								.005840	29.17	26.33	13.11
1091								.005850	29.68	26.40	11.19
1092								.005860	28.13	26.99	9.79
1093								.005870	27.10	26.70	8.25
1094								.005880	28.21	25.88	10.31
1095								.005890	28.13	25.37	10.46
1096								.005900	25.48	26.84	8.98

	L	M	N	O	P	Q	R	S	T
1047	43.31	21.43	26.99	51.93	21.82	36.68	36.08	25.04	55.35
1048	44.72	21.06	27.14	53.77	23.89	36.53	48.26	21.36	54.17
1049	43.24	21.80	24.63	53.03	26.92	42.43	64.51	19.88	54.98
1050	41.32	22.24	21.82	51.71	28.32	49.35	68.35	22.17	58.75
1051	36.45	21.95	22.34	51.04	28.62	54.36	59.27	23.27	59.64
1052	35.12	23.42	26.70	53.48	31.42	54.51	53.36	24.89	59.93
1053	37.33	24.01	28.03	56.05	35.71	54.29	59.78	24.75	58.60
1054	40.58	23.86	27.36	57.01	35.85	53.25	62.89	25.26	57.64
1055	37.26	20.77	26.99	54.65	33.64	52.52	58.45	23.71	57.05
1056	33.20	17.90	29.06	49.20	34.08	50.53	53.73	22.09	59.49
1057	34.01	14.80	28.91	41.91	37.26	50.16	54.76	19.74	59.19
1058	39.03	12.00	26.99	38.08	39.25	49.35	54.54	21.06	57.72
1059	39.77	7.66	27.07	39.70	40.88	50.68	52.10	24.16	53.06
1060	38.00	7.73	29.80	45.23	41.91	52.59	49.15	29.53	50.48
1061	35.85	11.19	29.80	48.17	40.51	55.83	46.64	32.26	50.77
1062	35.71	13.84	28.91	49.42	39.77	58.19	43.39	31.60	54.91
1063	35.49	10.53	30.83	47.36	40.36	59.22	41.54	27.77	54.24
1064	37.48	6.33	33.49	45.15	42.21	56.79	38.66	27.03	49.59
1065	42.80	3.83	33.05	46.33	40.43	53.62	34.97	27.55	44.13
1066	46.64	3.38	33.49	51.85	39.40	52.22	32.46	29.53	45.97
1067	42.80	2.35	34.82	51.27	44.42	52.81	34.01	29.24	49.08
1068	37.78	1.91	36.15	40.66	52.77	51.41	34.75	30.05	51.36
1069	36.74	-1.63	35.63	25.48	50.18	50.60	34.53	30.79	49.44
1070	40.36	-6.19	36.00	22.68	42.35	49.50	32.09	31.74	46.05
1071	40.43	-5.82	38.37	30.27	40.29	49.28	30.24	32.33	41.98
1072	37.78	.44	41.02	37.56	45.75	47.58	30.83	34.18	40.43
1073	35.12	2.94	40.29	38.23	47.38	47.58	35.71	33.73	40.14
1074	37.18	-.15	38.37	38.01	42.65	46.11	37.85	34.03	43.68
1075	39.55	-4.28	36.08	39.63	39.18	44.34	36.96	33.44	47.01
1076	41.76	-6.86	30.83	40.51	41.76	42.94	33.64	33.29	49.22
1077	41.32	-7.52	27.14	37.56	43.83	45.52	34.01	33.14	49.89
1078	40.66	-3.39	31.50	34.76	43.24	47.51	34.67	34.18	50.63
1079	40.21	1.76	39.25	34.84	42.50	48.69	36.45	32.55	50.04
1080	39.84	3.83	41.84	38.67	43.83	46.70	36.15	31.08	51.81
1081	38.22	2.94	39.10	40.81	43.46	46.11	34.89	31.52	53.58
1082	39.10	5.67	38.74	39.48	42.95	46.48	32.16	35.06	54.54
1083	40.43	11.49	42.65	35.65	43.98	48.61	33.79	34.84	51.96
1084	41.10	16.20	46.86	35.06	48.56	47.66	37.11	35.13	51.59
1085	39.70	15.10	45.90	37.42	54.69	46.18	40.73	33.73	51.73
1086	39.18	12.15	42.35	38.89	59.41	44.78	42.65	32.63	52.62
1087	37.70	9.06	40.73	35.72	57.49	43.60	43.39	30.71	49.22
1088	36.59	6.26	42.28	34.47	55.20	41.03	42.35	32.41	42.65
1089	34.23	1.69	43.98	35.72	55.20	39.85	42.95	34.32	36.00
1090	32.53	-1.99	42.35	37.56	56.09	40.14	45.90	37.20	41.02
1091	29.80	-1.77	39.70	36.31	52.03	41.98	48.56	37.27	49.81
1092	29.06	4.41	39.70	36.75	47.60	40.51	47.08	35.28	50.92
1093	27.88	8.25	40.43	36.24	43.91	38.45	45.01	32.19	43.61
1094	27.95	5.00	39.33	35.06	41.17	37.27	43.24	35.06	40.36
1095	27.14	-.01	37.18	32.63	39.25	39.11	44.42	38.37	40.43
1096	28.99	-.15	36.96	34.18	42.65	39.77	44.57	37.86	39.84

	U	V	W	X	Y	Z	AA	AB	AC	AD
1047	.005410	315.43	115.96	25.48	28.27	37.88	37.75		0.01042	21.35767937
1048	.005420	316.98	119.73	22.98	29.65	37.22	42.11		0.01043	20.76836014
1049	.005430	322.51	119.73	21.60	29.01	38.45	48.80		0.01044	19.22139549
1050	.005440	328.25	119.73	22.54	27.71	41.08	51.81		0.01045	20.25270462
1051	.005450	330.68	124.01	22.22	25.88	42.89	49.17		0.01046	23.7886219
1052	.005460	327.88	128.67	22.61	26.55	44.29	48.24		0.01047	25.5565815
1053	.005470	325.89	132.06	23.40	27.29	45.03	51.36		0.01048	23.27296829
1054	.005480	323.91	131.10	24.87	27.98	45.18	52.13		0.01049	22.24165916
1055	.005490	325.89	131.77	23.03	26.25	43.63	49.72		0.0105	23.93595314
1056	.005500	328.32	131.10	19.88	26.01	40.61	49.10		0.01051	28.57684326
1057	.005510	333.56	130.59	17.13	27.31	37.27	50.40		0.01052	31.89176559
1058	.005520	336.65	129.63	17.58	29.92	36.16	50.50		0.01053	33.29140091
1059	.005530	336.28	129.92	18.24	30.88	38.18	48.68		0.01054	31.4497757
1060	.005540	332.23	129.04	19.32	31.13	42.45	47.18		0.01055	31.52344131
1061	.005550	325.08	128.22	18.39	30.02	45.42	45.97		0.01056	32.70207977
1062	.005560	318.82	130.14	17.67	29.85	46.40	46.02		0.01057	35.05935669
1063	.005570	318.16	135.61	17.40	29.48	44.78	45.38		0.01058	35.79600906
1064	.005580	320.59	139.82	19.30	30.00	42.99	43.49		0.01059	35.72234344
1065	.005590	323.91	143.14	20.72	31.37	42.50	39.84		0.0106	32.99673843
1066	.005600	323.24	141.30	21.14	33.00	44.54	39.28		0.01061	31.08145142
1067	.005610	324.27	137.46	19.44	31.72	44.44	42.50		0.01062	32.84941101
1068	.005620	329.58	133.54	18.95	30.34	40.71	46.29		0.01063	38.44794464
1069	.005630	335.77	131.33	18.21	29.80	35.62	44.72		0.01064	41.46820831
1070	.005640	333.19	130.07	18.63	31.33	34.64	40.16		0.01065	40.65789413
1071	.005650	323.32	130.59	19.12	31.69	37.29	37.50		0.01066	37.26930618
1072	.005660	319.93	132.14	20.67	31.72	39.77	39.01		0.01067	35.05935669
1073	.005670	324.57	135.54	19.69	30.81	39.85	41.07		0.01068	33.65972519
1074	.005680	324.79	136.57	17.94	31.10	39.38	41.39		0.01069	33.58605957
1075	.005690	321.55	142.18	16.03	30.59	39.14	41.05		0.0107	34.54370499
1076	.005700	315.88	146.61	15.22	28.32	38.91	41.54		0.01071	34.91202927
1077	.005710	314.99	148.61	15.27	25.74	38.74	42.58		0.01072	29.31349373
1078	.005720	314.62	147.65	18.04	27.53	38.82	42.85		0.01073	22.24165916
1079	.005730	314.55	149.72	19.17	31.52	38.69	42.99		0.01074	20.32637024
1080	.005740	311.09	154.07	17.63	32.88	38.82	43.93		0.01075	26.80888557
1081	.005750	307.33	159.02	15.17	30.66	39.48	43.98		0.01076	31.15511703
1082	.005760	308.07	163.75	17.28	31.03	40.34	43.22		0.01077	28.72417259
1083	.005770	312.41	167.74	20.79	33.76	39.70	43.24		0.01078	22.68364906
1084	.005780	314.25	167.44	21.75	36.10	39.28	45.75		0.01079	22.02066422
1085	.005790	313.67	166.26	17.99	35.02	39.11	49.05		0.0108	23.27296829
1086	.005800	310.35	166.92	15.37	34.23	38.77	51.56		0.01081	24.00961685
1087	.005810	308.36	171.87	14.95	33.86	36.68	50.04		0.01082	25.18825722
1088	.005820	306.74	174.97	15.37	34.45	35.97	46.74		0.01083	29.16616249
1089	.005830	309.10	175.12	13.97	34.38	36.63	44.72		0.01084	29.68181801
1090	.005840	313.22	171.21	13.43	33.74	38.30	47.67		0.01085	28.13485336
1091	.005850	316.91	167.00	13.03	31.97	38.52	50.13		0.01086	27.10354424
1092	.005860	318.90	165.15	14.11	31.92	37.51	48.53		0.01087	28.20851898
1093	.005870	320.00	163.90	14.53	31.67	35.62	44.18		0.01088	28.13485336
1094	.005880	319.63	161.24	14.51	31.05	35.80	41.59		0.01089	25.48291588
1095	.005890	320.44	160.72	12.86	29.90	36.70	41.37		0.0109	21.9469986
1096	.005900	320.37	162.20	11.44	30.93	37.27	42.35		0.01091	19.44239044

	AE	AF	AG	AH	AI
1047	21.65233994	21.79966927	53.03360367	42.42585373	19.88438034
1048	24.59893608	22.24165916	51.70763397	49.35035706	22.16799355
1049	25.48291588	21.9469986	51.04465103	54.35957336	23.27296829
1050	24.15694809	23.42029762	53.47559357	54.5069046	24.89359665
1051	22.38898849	24.00961685	56.05386734	54.28590775	24.74626732
1052	25.18825722	23.86228752	57.01150894	53.25460052	25.26192093
1053	25.04092598	20.76836014	54.65423203	52.51794815	23.71495819
1054	19.51605606	17.8954277	49.20302582	50.52899551	22.09432793
1055	12.66521645	14.80149937	41.91019821	50.16067123	19.73705101
1056	12.14956188	12.0022316	38.07962036	49.35035706	21.0630188
1057	15.1698246	7.65600061	39.70024872	50.67632675	24.15694809
1058	16.93778229	7.72966528	45.22512054	52.59161377	29.53448868
1059	12.51788616	11.19191742	48.1717186	55.83287048	32.26008987
1060	7.65600061	13.84385586	49.42402267	58.19015121	31.59710693
1061	8.98196888	10.52893353	47.36140442	59.22145844	27.76652908
1062	16.49579239	6.33003139	45.15145493	56.7905159	27.02988052
1063	22.53631783	3.82542348	46.33009338	53.6229248	27.54553413
1064	24.30427742	3.38343382	51.85496521	52.22328949	29.53448868
1065	22.97830772	2.35212469	51.26564407	52.81261063	29.23982811
1066	23.86228752	1.91013503	40.65789413	51.41297531	30.05014229
1067	23.42029762	-1.62578213	25.48291588	50.60266113	30.78679276
1068	23.64129257	-6.19300842	22.68364906	49.49768829	31.74443626
1069	21.72600365	-5.82468367	30.27113724	49.27669144	32.33375549
1070	20.91568947	0.43683618	37.56396484	47.58239746	34.17538071
1071	18.85307121	2.94144416	38.2269516	47.58239746	33.73339081
1072	18.92673683	-0.15248336	38.00595474	46.10910034	34.02804947
1073	18.70574188	-4.27771997	39.6265831	44.34114075	33.43872833
1074	18.92673683	-6.85599279	40.5105629	42.94150543	33.29140091
1075	18.77940559	-7.51897764	37.56396484	45.51977921	33.14406967
1076	22.60998344	-3.39374065	34.76469803	47.50873184	34.17538071
1077	26.44055939	1.7628051	34.83836365	48.68737411	32.55474854
1078	26.80888557	3.82542348	38.6689415	46.69841766	31.08145142
1079	22.24165916	2.94144416	40.80522537	46.10910034	31.52344131
1080	19.36872673	5.66704702	39.47925568	46.47742462	35.05935669
1081	19.73705101	11.48657703	35.64867783	48.6137085	34.83836365
1082	20.32637024	16.20113373	35.05935669	47.65606308	35.13302231
1083	16.20113373	15.09615898	37.41663742	46.18276596	33.73339081
1084	11.92856693	12.14956188	38.88993454	44.78313065	32.62841415
1085	12.51788616	9.0556345	35.72234344	43.60449219	30.71312714
1086	15.83280849	6.25636673	34.47003937	41.02621841	32.40742111
1087	15.02249432	1.6891402	35.72234344	39.84757996	34.32270813
1088	13.10720634	-1.99410689	37.56396484	40.14223862	37.19564056
1089	11.19191742	-1.77311206	36.31166077	41.98386383	37.26930618
1090	9.79228401	4.41474295	36.75365067	40.5105629	35.28035355
1091	8.24532032	8.24532032	36.23799896	38.44794464	32.18642426
1092	10.30793858	5.00406265	35.05935669	37.26930618	35.05935669
1093	10.45526791	-0.00515347	32.62841415	39.1109314	38.37427902
1094	8.98196888	-0.15248336	34.17538071	39.77391434	37.85862732
1095	7.21401072	-0.9627977	37.49030304	37.19564056	32.99673843
1096	6.10903645	-5.97201347	41.83653259	31.08145142	32.84941101

	AJ	AK	AL	AM	AN
1047	19.16379356	43.2404747	24.62905312	26.9185524	64.51067352
1048	19.97619629	41.32024765	21.82256889	28.32179451	68.35112
1049	18.86837387	36.44582748	22.33955193	28.6172142	59.2669754
1050	17.8344059	35.11643982	26.69698906	31.42369843	53.35858917
1051	16.50501823	37.33208466	28.02637482	35.70727921	59.78396225
1052	15.9880352	40.58169937	27.36168289	35.8549881	62.88586426
1053	14.51093864	37.25823212	26.99240685	33.63934326	58.45457458
1054	15.76647091	33.19621658	29.06034279	34.08247375	53.72786331
1055	19.01608467	34.0086174	28.9126339	37.25823212	54.76182938
1056	23.74279404	39.03074646	26.99240685	39.25231171	54.54026794
1057	25.81072998	39.76929474	27.0662632	40.87712097	52.10305786
1058	25.58916473	37.9967804	29.79889107	41.91108704	49.14886093
1059	24.40748787	35.8549881	29.79889107	40.50784683	46.63779831
1060	24.92447281	35.70727921	28.9126339	39.76929474	43.38818359
1061	22.11798859	35.48571396	30.83285904	40.36013412	41.5418129
1062	19.01608467	37.47979736	33.49163437	42.20650482	38.66147232
1063	18.27753639	42.79734421	33.04850388	40.4399048	34.96873093
1064	18.86837387	46.63779831	33.49163437	39.4000206	32.4576683
1065	17.53898621	42.79734421	34.82102203	44.42215347	34.0086174
1066	17.09585762	37.77521515	36.1504097	52.76774979	34.74716568
1067	17.02200317	36.74124908	35.63342667	50.18283081	34.52560043
1068	17.61284256	40.36013412	36.00270081	42.35421753	32.08839417
1069	16.2834549	40.43399048	38.36605453	40.28628159	30.24202156
1070	16.35730934	37.77521515	41.02482986	45.75154114	30.83285904
1071	17.02200317	35.11643982	40.28628159	47.37634659	35.70727921
1072	17.76055145	37.18437576	38.36605453	42.64963531	37.8490715
1073	16.13574409	39.54773331	36.07655334	39.17845917	36.96281052
1074	12.3691473	41.76337814	30.83285904	41.76337814	33.63934326
1075	8.75026035	41.32024765	27.14011765	43.83131409	34.0086174
1076	10.4489212	40.65555573	31.49755287	43.2404747	34.67331314
1077	15.10177708	40.21242523	39.25231171	42.50192642	36.44582748
1078	16.94814873	39.84315109	41.83723068	43.83131409	36.1504097
1079	14.65864754	38.21834564	39.10460281	43.46203995	34.89487839
1080	15.24948692	39.10460281	38.73532867	42.94505692	32.1622467
1081	18.20368004	40.43399048	42.64963531	43.97902298	33.78705215
1082	20.34547043	41.0986824	46.85936356	48.55802536	37.11052322
1083	19.45921326	39.6954422	45.89925003	54.68797684	40.72940826
1084	21.15787506	39.17845917	42.35421753	59.41468811	42.64963531
1085	23.15195465	37.70136261	40.72940826	57.49446106	43.38818359
1086	24.48134232	36.59353638	42.28036118	55.20495987	42.35421753
1087	24.92447281	34.23018265	43.97902298	55.20495987	42.94505692
1088	26.32771492	32.53152084	42.35421753	56.09121704	45.89925003
1089	26.40156937	29.79889107	39.6954422	52.02920151	48.55802536
1090	26.99240685	29.06034279	39.6954422	47.59791183	47.08092499
1091	26.69698906	27.87866592	40.43399048	43.90516663	45.01298904
1092	25.88458443	27.95252037	39.32616806	41.17253876	43.2404747
1093	25.36760139	27.14011765	37.18437576	39.25231171	44.42215347
1094	26.84469795	28.98648834	36.96281052	42.64963531	44.56986237
1095	27.36168289	32.1622467	36.88895798	45.0868454	42.79734421
1096	26.62313271	33.56549072	34.67331314	43.97902298	38.14448929

	AO	AP	AQ	AR	AS
1047	54.98339462	322.5054627	119.7306137	21.60322952	38.44794464
1048	58.74999237	328.2513123	119.7306137	22.53631783	41.07532883
1049	59.63624954	330.682251	124.0141983	22.21710396	42.89239883
1050	59.93167114	327.8829956	128.6670532	22.60998344	44.29203033
1051	58.60228348	325.894043	132.0643768	23.39574242	45.02867889
1052	57.64216995	323.9050903	131.1042633	24.86904144	45.17601013
1053	57.05133057	325.894043	131.7689514	23.02741814	43.62904739
1054	59.48854065	328.3249817	131.1042633	19.88438034	40.60878372
1055	59.19312286	333.5552063	130.5872803	17.13422394	37.26930618
1056	57.71602631	336.6491089	129.6271668	17.57621193	36.16433334
1057	53.06316757	336.2807922	129.9225922	18.23919678	38.17784119
1058	50.4782486	332.2292175	129.0363312	19.31961632	42.45040894
1059	50.7736702	325.0837402	128.2239227	18.38652611	45.42155838
1060	54.90954208	318.8222046	130.1441498	17.67443275	46.403759
1061	54.24484634	318.1592102	135.6094055	17.40432739	44.78313065
1062	49.59199142	320.5901794	139.8191376	19.2950592	42.99061584
1063	44.12673187	323.9050903	143.1426086	20.71924973	42.49951935
1064	45.97310257	323.242096	141.2962341	21.13668442	44.5375824
1065	49.07500839	324.273407	137.45578	19.44239044	44.43936157
1066	51.36450958	329.577301	133.5414734	18.95129204	40.70700455
1067	49.44428253	335.7651367	131.3258209	18.21464157	35.62412262
1068	46.04695892	333.1868591	130.0702972	18.63207626	34.64192581
1069	41.98494339	323.3157654	130.5872803	19.12317657	37.29386139
1070	40.43399048	319.9271851	132.1382294	20.67013931	39.77391434
1071	40.13856888	324.5680847	135.535553	19.6879406	39.84757996
1072	43.68360519	324.7890625	136.569519	17.94453621	39.38103485
1073	47.00707245	321.547821	142.1824951	16.02924919	39.13548279
1074	49.22271729	315.8756104	146.6137848	15.21893501	38.91448975
1075	49.88740921	314.9916382	148.6078644	15.26804447	38.7426033
1076	50.62595749	314.623291	147.6477509	18.04275703	38.81626892
1077	50.03512192	314.5496521	149.715683	19.17228699	38.6934967
1078	51.80763626	311.0874023	154.0731201	17.62532234	38.81626892
1079	53.58015442	307.3304749	159.0213928	15.1698246	39.47925568
1080	54.54026794	308.0671387	163.7481079	17.28155327	40.33868027
1081	51.95534515	312.4133606	167.7362671	20.79291534	39.70024872
1082	51.58607101	314.2549744	167.4408417	21.75055885	39.28281403
1083	51.73378372	313.6656494	166.2591705	17.99364662	39.1109314
1084	52.62004089	310.3507385	166.9238586	15.36626434	38.76715851
1085	49.22271729	308.3617859	171.8721466	14.94882965	36.67998886
1086	42.64963531	306.7411499	174.9740448	15.36626434	35.96789169
1087	36.00270081	309.0984497	175.1217499	13.96663094	36.63087845
1088	41.02482986	313.2236633	171.2074432	13.42642021	38.3006134
1089	49.81355667	316.9069214	166.9977264	13.03354073	38.52161026
1090	50.92137909	318.895874	165.1513519	14.11396027	37.51485443
1091	43.60974884	320.0008545	163.895813	14.53139496	35.62412262
1092	40.36013412	319.6325073	161.2370453	14.50683975	35.79600525
1093	40.43399048	320.4428406	160.7200623	12.86165619	36.70454025
1094	39.84315109	320.3691711	162.1971588	11.43746758	37.26930618
1095	39.6954422	322.0634766	165.5206299	9.39940357	35.89422607
1096	43.31433105	323.8314209	163.1572723	6.52647114	35.25579834

	AT	AU
1047	29.01110649	48.80420685
1048	27.70633698	51.80763626
1049	25.88458443	49.17348099
1050	26.54927826	48.23798752
1051	27.28782654	51.36450958
1052	27.97713852	52.1276741
1053	26.25385857	49.71508408
1054	26.00767708	49.09962463
1055	27.31244469	50.40439606
1056	29.92198181	50.50286865
1057	30.88209534	48.6811142
1058	31.12827873	47.17939758
1059	30.02045631	45.97310638
1060	29.84812927	46.02233887
1061	29.47885323	45.38226318
1062	29.99583817	43.48665619
1063	31.37446213	39.84315109
1064	32.99926758	39.27693176
1065	31.71911812	42.50192642
1066	30.34049416	46.29314041
1067	29.79889297	44.71757126
1068	31.32522583	40.16318893
1069	31.69449997	37.50441742
1070	31.71911812	39.00613022
1071	30.80824089	41.07406616
1072	31.10366058	41.394104
1073	30.58667755	41.04944611
1074	28.32179451	41.5418129
1075	25.73687553	42.57577896
1076	27.53400993	42.84658051
1077	31.52217102	42.99429321
1078	32.87617493	43.92978668
1079	30.660532	43.97902298
1080	31.02980614	43.21585846
1081	33.76243591	43.2404747
1082	36.1011734	45.75154114
1083	35.01796722	49.05038834
1084	34.23018265	51.56145477
1085	33.86090851	50.03512192
1086	34.45174789	46.7362709
1087	34.37789154	44.71757126
1088	33.73781586	47.67176437
1089	31.96530151	50.13359451
1090	31.91606331	48.5334053
1091	31.66988182	44.17596817
1092	31.05442429	41.59104919
1093	29.89736557	41.36948395
1094	30.93133163	42.35421753
1095	32.13763046	42.52654266
1096	31.62064552	41.81261444

	A	B	C	D	E	F	G	H	I	J	K
1097								.005910	21.95	27.36	7.21
1098								.005920	19.44	26.62	6.11
1099								.005930	18.56	27.51	3.31
1100								.005940	18.71	28.91	2.35
1101								.005950	19.74	28.54	2.65
1102								.005960	20.25	28.91	3.83
1103								.005970	18.26	30.76	5.23
1104								.005980	19.52	34.97	9.57
1105								.005990	24.45	35.19	11.19
1106								.006000	29.76	34.82	11.78
1107								.006010	30.93	35.93	12.59
1108								.006020	31.38	37.92	15.02
1109								.006030	30.71	33.71	14.21
1110								.006040	31.97	28.03	13.55
1111								.006050	33.73	25.96	18.19
1112								.006060	36.83	30.39	28.95
1113								.006070	35.80	35.19	36.61
1114								.006080	34.84	38.00	36.68
1115								.006090	35.21	34.97	30.34
1116								.006100	37.56	31.50	25.70
1117								.006110	39.99	28.91	23.57
1118								.006120	40.07	27.66	25.04
1119								.006130	33.44	25.81	25.11
1120								.006140	24.30	24.33	22.98
1121								.006150	17.67	21.45	15.69
1122								.006160	17.82	20.20	9.50
1123								.006170	20.40	19.61	6.33
1124								.006180	25.34	22.71	6.48
1125								.006190	28.43	24.19	4.34
1126								.006200	30.42	23.89	1.91
1127								.006210	28.50	20.05	2.35
1128								.006220	26.29	17.54	8.32
1129								.006230	23.71	15.54	11.49
1130								.006240	24.16	16.95	5.89
1131								.006250	27.40	18.57	-4.87
1132								.006260	33.44	21.82	-6.78
1133								.006270	34.25	20.94	.29
1134								.006280	29.90	19.31	7.36
1135								.006290	23.20	16.73	8.98
1136								.006300	22.83	16.43	13.99
1137								.006310	22.54	17.10	21.06
1138								.006320	19.00	19.02	24.01
1139								.006330	16.79	22.12	17.97
1140								.006340	20.77	25.37	12.67
1141								.006350	23.27	25.07	11.56
1142								.006360	20.33	23.60	14.88
1143								.006370	17.09	21.45	15.98
1144								.006380	20.62	21.38	15.61
1145								.006390	25.34	22.12	12.96
1146								.006400	26.51	25.96	10.82

	L	M	N	O	P	Q	R	S	T
1097	32.16	-.96	36.89	37.49	45.09	37.20	42.80	33.00	39.70
1098	33.57	-5.97	34.67	41.84	43.98	31.08	38.14	32.85	43.31
1099	27.44	-9.66	32.16	45.30	43.46	27.25	37.41	37.05	45.90
1100	21.82	-6.86	32.46	47.58	49.00	22.46	39.40	41.62	47.89
1101	22.78	-2.36	34.23	49.94	57.57	20.99	41.54	39.92	48.85
1102	25.66	1.17	36.45	49.94	62.00	24.75	39.33	37.20	50.40
1103	24.70	3.68	36.59	44.19	59.78	31.30	37.48	34.54	51.22
1104	26.40	4.27	35.85	40.51	56.39	32.78	36.74	34.91	54.32
1105	30.54	.88	35.04	41.91	54.76	31.67	38.81	33.00	55.57
1106	31.72	-2.07	35.12	45.23	53.95	32.48	41.47	31.08	55.06
1107	30.39	-3.25	33.79	42.87	51.36	37.93	44.20	30.49	53.14
1108	30.83	-.82	33.20	38.15	48.26	41.69	45.75	33.73	56.17
1109	29.65	2.20	33.34	37.78	44.72	40.44	47.45	34.99	58.23
1110	27.73	3.90	35.12	42.94	44.64	36.68	50.92	37.27	59.49
1111	26.18	.36	35.93	43.75	44.72	36.97	56.68	39.18	55.94
1112	27.21	-2.14	36.89	42.28	44.72	39.48	59.12	42.13	52.55
1113	29.06	-1.33	39.18	41.98	42.95	40.88	59.05	42.43	51.14
1114	31.42	-.23	43.31	46.33	43.02	39.85	59.12	42.13	53.28
1115	30.83	-2.66	45.97	48.76	44.13	41.91	63.18	40.81	53.43
1116	30.39	-2.22	45.90	47.88	47.01	45.45	65.77	40.51	50.55
1117	28.91	2.79	43.83	43.90	49.89	46.85	65.18	38.37	47.08
1118	29.87	7.95	42.65	41.84	51.96	43.68	58.01	35.50	49.67
1119	28.76	12.22	44.13	40.14	50.55	42.65	49.96	33.37	55.06
1120	25.88	17.23	41.76	38.45	48.11	43.09	47.01	35.94	59.19
1121	23.60	22.54	36.74	38.01	47.67	43.16	53.88	38.30	58.75
1122	23.89	21.21	33.71	40.58	49.81	40.95	60.08	37.71	58.16
1123	22.93	11.85	35.93	41.69	51.00	41.98	61.63	34.76	58.01
1124	21.53	2.13	39.99	40.29	49.89	42.13	56.53	33.37	59.93
1125	23.45	-1.40	41.62	40.51	48.56	41.39	50.04	31.67	58.60
1126	28.03	-.37	41.02	44.78	47.08	39.85	43.91	31.30	56.39
1127	29.73	.51	41.17	45.67	44.72	41.62	43.39	29.61	51.96
1128	29.65	-.74	42.80	41.84	42.95	43.75	45.01	30.12	48.85
1129	27.07	-1.92	42.95	38.89	41.39	45.52	44.05	29.31	45.31
1130	25.66	-1.85	39.92	41.17	41.25	44.78	39.40	28.72	44.72
1131	24.63	-3.54	34.38	41.54	39.55	43.68	37.33	27.10	43.83
1132	26.55	-8.03	31.05	38.67	36.00	42.50	36.22	27.47	44.50
1133	28.25	-11.35	31.50	35.58	27.95	41.54	34.53	26.96	44.35
1134	28.62	-10.02	35.26	36.83	24.33	39.18	30.54	27.55	45.75
1135	23.60	-8.55	35.26	37.56	29.36	40.51	28.17	28.50	45.90
1136	19.75	-9.14	29.95	38.30	37.33	41.62	27.36	30.57	46.49
1137	19.90	-11.50	24.63	36.16	34.08	39.33	31.28	29.68	46.27
1138	27.73	-13.34	26.33	33.66	27.88	35.50	39.10	27.99	47.08
1139	34.16	-13.71	31.79	30.93	27.95	36.53	44.27	29.02	49.37
1140	35.26	-13.34	36.22	32.11	32.90	40.66	41.02	31.82	54.02
1141	32.31	-10.17	36.59	34.54	35.34	45.08	37.48	30.64	57.35
1142	32.09	-6.78	33.27	35.80	37.70	42.72	38.22	28.13	57.72
1143	31.57	-5.31	29.21	34.03	40.43	39.04	45.75	25.63	56.09
1144	31.28	-8.11	27.88	35.65	41.69	37.56	51.51	27.18	55.35
1145	30.69	-9.73	31.13	42.28	39.55	39.26	53.51	29.90	55.06
1146	30.32	-10.39	32.83	47.14	37.48	36.53	51.29	33.29	53.73

	U	V	W	X	Y	Z	AA	AB	AC	AD
1097	.005910	322.06	165.52	9.40	32.14	35.89	42.53		0.01092	18.55841255
1098	.005920	323.83	163.16	6.53	31.62	35.26	41.81		0.01093	18.70574188
1099	.005930	327.37	161.24	4.07	29.04	36.53	42.26		0.01094	19.73705101
1100	.005940	325.45	160.65	4.73	27.73	37.22	45.43		0.01095	20.25270462
1101	.005950	320.30	159.39	6.67	28.52	36.95	49.32		0.01096	18.26375198
1102	.005960	316.83	154.89	8.42	30.34	37.29	50.58		0.01097	19.51605606
1103	.005970	317.79	151.64	9.06	30.69	36.68	49.49		0.01098	24.45160675
1104	.005980	319.26	154.15	11.12	32.41	36.07	49.15		0.01099	29.75548172
1105	.005990	320.00	160.06	12.17	33.59	35.53	49.72		0.011	30.93412209
1106	.006000	319.41	162.12	13.16	33.89	36.26	50.16		0.01101	31.37611198
1107	.006010	320.74	161.61	13.43	33.37	37.10	49.57		0.01102	30.71312714
1108	.006020	320.66	159.32	15.19	33.98	37.86	50.06		0.01103	31.96543121
1109	.006030	320.00	160.20	15.71	32.24	37.74	50.13		0.01104	33.73339081
1110	.006040	318.82	162.27	16.47	30.29	38.96	51.68		0.01105	36.82731628
1111	.006050	319.41	162.57	17.43	29.36	39.97	52.45		0.01106	35.79600906
1112	.006060	323.39	160.06	21.21	31.50	41.30	52.13		0.01107	34.83836365
1113	.006070	327.66	158.28	23.69	34.48	41.76	51.04		0.01108	35.20668793
1114	.006080	327.96	160.65	23.76	37.58	42.77	51.81		0.01109	37.56396484
1115	.006090	322.80	162.27	20.96	37.26	43.83	53.58		0.0111	39.99491119
1116	.006100	317.05	160.35	20.35	35.93	44.61	54.44		0.01111	40.068573
1117	.006110	317.05	158.87	22.12	33.89	43.04	54.05		0.01112	33.43872833
1118	.006120	320.59	157.69	24.35	33.39	40.34	53.21		0.01113	24.30427742
1119	.006130	327.66	157.69	23.59	32.90	38.72	51.86		0.01114	17.67443275
1120	.006140	333.26	155.40	21.51	30.66	39.16	51.44		0.01115	17.82176208
1121	.006150	336.58	153.11	18.63	27.26	39.82	53.43		0.01116	20.40003586
1122	.006160	337.09	151.05	16.18	25.93	39.75	56.02		0.01117	25.33558655
1123	.006170	335.77	150.31	12.86	26.16	39.48	56.88		0.01118	28.42951393
1124	.006180	332.01	150.38	11.31	28.08	38.60	55.45		0.01119	30.41846657
1125	.006190	326.34	150.38	10.46	29.75	37.86	52.40		0.0112	28.50317955
1126	.006200	320.30	150.90	10.65	30.98	38.64	49.12		0.01121	26.29323006
1127	.006210	319.34	151.78	10.46	30.32	38.96	46.69		0.01122	23.71495819
1128	.006220	320.96	151.93	11.29	30.00	38.57	45.60		0.01123	24.15694809
1129	.006230	322.65	151.56	11.09	28.52	37.91	43.59		0.01124	27.3982048
1130	.006240	321.18	149.42	9.40	27.51	38.23	41.79		0.01125	33.43872833
1131	.006250	317.57	147.35	6.33	25.86	37.44	40.24		0.01126	34.24904251
1132	.006260	313.81	146.32	6.21	26.48	36.21	38.91		0.01127	29.90281296
1133	.006270	312.86	144.25	7.73	26.89	34.69	35.61		0.01128	23.19930267
1134	.006280	317.05	141.22	9.08	27.73	34.52	33.54		0.01129	22.83097839
1135	.006290	322.21	137.53	7.88	25.20	35.53	34.48		0.0113	22.53631783
1136	.006300	322.43	132.29	9.23	22.04	36.83	37.06		0.01131	19.00040054
1137	.006310	319.41	127.26	10.70	20.54	35.06	37.21		0.01132	16.79045296
1138	.006320	317.35	124.16	9.89	24.36	32.38	38.02		0.01133	20.76836014
1139	.006330	319.12	126.82	7.02	29.36	32.16	40.53		0.01134	23.27296829
1140	.006340	320.30	128.00	6.70	32.29	34.86	42.65		0.01135	20.32637024
1141	.006350	323.17	128.30	8.22	31.33	36.75	43.39		0.01136	17.08511353
1142	.006360	326.85	128.67	9.47	29.65	35.55	44.55		0.01137	20.62103081
1143	.006370	328.62	128.81	9.25	27.41	32.90	47.43		0.01138	25.33558655
1144	.006380	327.00	127.04	9.37	26.84	33.46	49.52		0.01139	26.51422501
1145	.006390	323.61	124.31	9.52	27.98	37.15	49.37		0.0114	20.98935509
1146	.006400	322.95	121.95	8.98	29.70	38.99	47.50		0.01141	17.15877724

	AE	AF	AG	AH	AI
1097	3.30976892	-9.65526104	45.29878616	27.25087547	37.04831314
1098	2.35212469	-6.85599279	47.58239746	22.46265411	41.61553955
1099	2.64678431	-2.36243153	49.93967819	20.98935509	39.92124557
1100	3.82542348	1.17348564	49.93967819	24.74626732	37.19564056
1101	5.22505713	3.67809367	44.19380951	31.30244637	34.54370499
1102	9.57128906	4.26741314	40.5105629	32.77574539	34.91202927
1103	11.19191742	0.87882584	41.91019821	31.67077065	32.99673843
1104	11.78123665	-2.06777191	45.22512054	32.48108673	31.08145142
1105	12.59155178	-3.24641085	42.86784363	37.93229294	30.49213219
1106	15.02249432	-0.81546783	38.15328598	41.68920135	33.73339081
1107	14.21218014	2.20479465	37.7849617	40.43689728	34.98569489
1108	13.54919529	3.89908838	42.94150543	36.67998886	37.26930618
1109	18.19008636	0.36317122	43.75181961	36.97464752	39.1845932
1110	28.94516754	-2.14143682	42.27852249	39.47925568	42.13119125
1111	36.60632324	-1.3311224	41.98386383	40.87888718	42.42585373
1112	36.67998886	-0.22614829	46.33009338	39.84757996	42.13119125
1113	30.34480286	-2.65709138	48.76103592	41.91019821	40.80522537
1114	25.70391083	-2.21510172	47.87705994	45.44611359	40.5105629
1115	23.56762695	2.79411435	43.89915085	46.8457489	38.37427902
1116	25.04092598	7.95066023	41.83653259	43.67815781	35.50134659
1117	25.1145916	12.22322655	40.14223862	42.64684677	33.36506653
1118	22.97830772	17.23244286	38.44794464	43.08883667	35.94333649
1119	15.68547916	22.53631783	38.00595474	43.16250229	38.30061722
1120	9.49762344	21.21035004	40.58422852	40.9525528	37.71129608
1121	6.33003139	11.85490227	41.68920135	41.98386383	34.76469803
1122	6.4773612	2.13112974	40.28956985	42.13119125	33.36506653
1123	4.3410778	-1.4047873	40.5105629	41.39454269	31.67077065
1124	1.91013503	-0.37347817	44.78313065	39.84757996	31.30244637
1125	2.35212469	0.51050109	45.66711044	41.61553955	29.60815239
1126	8.31898499	-0.74180287	41.83653259	43.75181961	30.12380791
1127	11.48657703	-1.92044199	38.88993454	45.51977921	29.31349373
1128	5.88804197	-1.84677696	41.17354965	44.78313065	28.72417259
1129	-4.86703968	-3.5410707	41.54187393	43.67815781	27.10354424
1130	-6.78232813	-8.03463173	38.6689415	42.49951553	27.47187042
1131	0.28950629	-11.34955406	35.57501221	41.54187393	26.9562149
1132	7.36134052	-10.02358532	36.82731628	39.1845932	27.54553413
1133	8.98196888	-8.55028629	37.56396484	40.5105629	28.50317955
1134	13.99118519	-9.13960648	38.30061722	41.61553955	30.56579781
1135	21.0630188	-11.49688435	36.16433334	39.33192444	29.68181801
1136	24.00961685	-13.33850765	33.65972519	35.50134659	27.98752403
1137	17.96909142	-13.70683289	30.93412209	36.53265762	29.01883316
1138	12.66521645	-13.33850765	32.11276245	40.65789413	31.81810188
1139	11.56024265	-10.1709156	34.54370499	45.07778931	30.63946152
1140	14.87516499	-6.78232813	35.79600906	42.72051239	28.13485336
1141	15.98013878	-5.3090291	34.02804947	39.03726578	25.63024521
1142	15.61181355	-8.10829735	35.64867783	37.56396484	27.17720985
1143	12.95987606	-9.7289257	42.27852249	39.25825882	29.90281296
1144	10.82359314	-10.39191055	47.14040756	36.53265762	33.29140091
1145	9.12929916	-11.12855911	42.86784363	32.99673843	33.58605957
1146	9.20296383	-12.45452881	35.79600906	31.81810188	34.47003937

	AJ	AK	AL	AM	AN
1097	27.50939178	27.43553734	32.1622467	43.46203995	37.40594101
1098	28.9126339	21.82256889	32.4576683	49.00115204	39.4000206
1099	28.54335976	22.78268051	34.23018265	57.5683136	41.5418129
1100	28.9126339	25.66302109	36.44582748	61.99960709	39.32616806
1101	30.75900459	24.70290756	36.59353638	59.78396225	37.47979736
1102	34.96873093	26.40156937	35.8549881	56.38663864	36.74124908
1103	35.19029617	30.53744125	35.04258728	54.76182938	38.80918503
1104	34.82102203	31.71911812	35.11643982	53.94942856	41.46795654
1105	35.92884445	30.38973045	33.78705215	51.36450958	44.20058823
1106	37.92292404	30.83285904	33.19621658	48.26260376	45.75154114
1107	33.71319962	29.65118217	33.34392548	44.71757126	47.45019913
1108	28.02637482	27.73095703	35.11643982	44.6437149	50.92137909
1109	25.95843887	26.18000412	35.92884445	44.71757126	56.68205643
1110	30.38973045	27.21397209	36.88895798	44.71757126	59.11926651
1111	35.19029617	29.06034279	39.17845917	42.94505692	59.04541016
1112	37.9967804	31.42369843	43.31433105	43.01890945	59.11926651
1113	34.96873093	30.83285904	45.97310257	44.12673187	63.18128204
1114	31.49755287	30.38973045	45.89925003	47.00707245	65.76620483
1115	28.9126339	28.9126339	43.83131409	49.88740921	65.17536163
1116	27.65710068	29.87274742	42.64963531	51.95534515	58.01144409
1117	25.81072998	28.764925	44.12673187	50.55210495	49.96126556
1118	24.33363342	25.88458443	41.76337814	48.11489487	47.00707245
1119	21.45329475	23.59508514	36.74124908	47.67176437	53.8755722
1120	20.19776154	23.89050484	33.71319962	49.81355667	60.07938004
1121	19.60692215	22.93039131	35.92884445	50.99523544	61.63033295
1122	22.70882607	21.5271492	39.99085999	49.88740921	56.53434753
1123	24.18592262	23.44737434	41.61566925	48.55802536	50.03512192
1124	23.89050484	28.02637482	41.02482986	47.08092499	43.90516663
1125	20.05005264	29.72503662	41.17253876	44.71757126	43.38818359
1126	17.53898621	29.65118217	42.79734421	42.94505692	45.01298904
1127	15.54490662	27.0662632	42.94505692	41.394104	44.05287933
1128	16.94814873	25.66302109	39.91700745	41.24639511	39.4000206
1129	18.57295418	24.62905312	34.37789154	39.54773331	37.33208466
1130	21.82256889	26.54927826	31.05442429	36.00270081	36.22426224
1131	20.93630981	28.24794006	31.49755287	27.95252037	34.52560043
1132	19.31150436	28.6172142	35.26415253	24.33363342	30.53744125
1133	16.72658348	23.59508514	35.26415253	29.35576248	28.17408562
1134	16.43116379	19.75463295	29.94660187	37.33208466	27.36168289
1135	17.09585762	19.90234184	24.62905312	34.08247375	31.27598953
1136	19.01608467	27.73095703	26.32771492	27.87866592	39.10460281
1137	22.11798859	34.15632629	31.79297256	27.95252037	44.27444077
1138	25.36760139	35.26415253	36.22426224	32.90079498	41.02482986
1139	25.0721817	32.3099556	36.59353638	35.33800507	37.47979736
1140	23.59508514	32.08839417	33.27006912	37.70136261	38.21834564
1141	21.45329475	31.57140923	29.20805359	40.43399048	45.75154114
1142	21.3794384	31.27598953	27.87866592	41.68952179	51.51221848
1143	22.11798859	30.68515015	31.12827873	39.54773331	53.50629807
1144	25.95843887	30.31587601	32.82694244	37.47979736	51.29065323
1145	29.42961693	27.28782654	30.83285904	35.92884445	49.44428253
1146	30.31587601	23.00424576	27.58324623	33.04850388	47.52405548

	AO	AP	AQ	AR	AS
1097	45.89925003	327.3673401	161.2370453	4.0709734	36.53265762
1098	47.89332962	325.4520569	160.6462097	4.73395777	37.22019577
1099	48.85344315	320.2955017	159.3906708	6.67380142	36.95009232
1100	50.40439606	316.833252	154.8855286	8.41720486	37.29386139
1101	51.21679688	317.7908936	151.63591	9.0556345	36.67998505
1102	54.3187027	319.2641907	154.1469727	11.11825275	36.06611252
1103	55.57423401	320.0008545	160.0553589	12.17411709	35.52590179
1104	55.05725098	319.4115295	162.1233063	13.1563158	36.26255417
1105	53.13702393	320.7374878	161.606308	13.42642117	37.09742355
1106	56.16507339	320.6638184	159.3168182	15.19437981	37.85862732
1107	58.23300934	320.0008545	160.2030792	15.71003437	37.73585129
1108	59.48854065	318.8222046	162.2710114	16.47123909	38.96360016
1109	55.94350815	319.4115295	162.5664215	17.4288826	39.97035217
1110	52.54618454	323.3894348	160.0553589	21.21034813	41.29632187
1111	51.14294434	327.6619873	158.2828522	23.69040298	41.76286697
1112	53.28473282	327.956665	160.6462097	23.7640686	42.7696228
1113	53.43244171	322.8001099	162.2710114	20.96479988	43.82548523
1114	50.55210495	317.0542603	160.3507843	20.35092545	44.6112442
1115	47.08092499	317.0542603	158.8736877	22.11888504	43.03972626
1116	49.66584778	320.5901794	157.6920013	24.35338593	40.33868027
1117	55.05725098	327.6619873	157.6920013	23.59218216	38.71805191
1118	59.19312286	333.2605286	155.4025116	21.5050087	39.16003799
1119	58.74999237	336.57547	153.1130066	18.63207626	39.82302475
1120	58.15915298	337.0911255	151.0450745	16.17657852	39.74935913
1121	58.01144409	335.7651367	150.3065186	12.86165619	39.47925568
1122	59.93167114	332.0082398	150.3803711	11.3146925	38.59527588
1123	58.60228348	326.3360291	150.3803711	10.45526791	37.85862732
1124	56.38663864	320.2955017	150.8973694	10.65170765	38.64438629
1125	51.95534515	319.3378601	151.7836151	10.45526886	38.96360016
1126	48.85344315	320.9584961	151.9313355	11.29013729	38.57072067
1127	45.30841064	322.652771	151.5620575	11.09369755	37.90773773
1128	44.71757126	321.1794739	149.4202728	9.39940453	38.2269516
1129	43.83131409	317.5699158	147.3523254	6.33003139	37.44119263
1130	44.49600601	313.8129883	146.3183594	6.20725632	36.21344376
1131	44.34829712	312.8553467	144.2504273	7.7296648	34.69103241
1132	45.75154114	317.0542603	141.2223816	9.0801897	34.51914978
1133	45.89925003	322.2107849	137.5296326	7.87699509	35.52590179
1134	46.49008942	322.4317932	132.2859345	9.22751904	36.82731628
1135	46.26852417	319.4115295	127.2638092	10.70081711	35.05935669
1136	47.08092499	317.3489075	124.161911	9.89050293	32.38286591
1137	49.37042618	319.1168823	126.8206787	7.0175705	32.16187286
1138	54.0232811	320.2955017	128.0023651	6.69835615	34.86291885
1139	57.34675217	323.1684265	128.2977753	8.22076511	36.75365067
1140	57.71602631	326.8516846	128.6670532	9.47306919	35.550457
1141	56.09121704	328.6196594	128.8147583	9.25207424	32.89852142
1142	55.35266876	326.9990234	127.042244	9.37484932	33.46328354
1143	55.05725098	323.6104431	124.3096161	9.52217865	37.14653015
1144	53.72786331	322.9474487	121.9462585	8.98196888	38.98815536
1145	50.3305397	325.5993958	121.5031357	6.33003187	36.48354721
1146	50.10897446	326.3360291	119.4351959	4.63573742	34.02804947

	AT	AU
1097	29.03572464	42.25574493
1098	27.73095703	45.43149948
1099	28.51874161	49.32118988
1100	30.34049416	50.57672501
1101	30.68515015	49.49351883
1102	32.40842819	49.14886475
1103	33.59010696	49.71508408
1104	33.88552856	50.15821075
1105	33.36854172	49.56737518
1106	33.98400116	50.05973816
1107	32.23610306	50.13359451
1108	30.29125786	51.68454361
1109	29.35576248	52.44771194
1110	31.49755287	52.1276741
1111	34.47636414	51.04447174
1112	37.57826996	51.80763626
1113	37.25823212	53.5801506
1114	35.92884445	54.44179535
1115	33.88552856	54.04789734
1116	33.39316177	53.21088028
1117	32.90079498	51.85687256
1118	30.660532	51.43836212
1119	27.2632103	53.43244171
1120	25.93382263	56.0173645
1121	26.15538597	56.87900543
1122	28.07561111	55.45114136
1123	29.74965477	52.39847565
1124	30.98056984	49.12424469
1125	30.31587601	46.68703461
1126	29.99583817	45.60382843
1127	28.51874161	43.5851326
1128	27.50939178	41.78799438
1129	25.85996628	40.23704529
1130	26.47542381	38.90765762
1131	26.89393425	35.60880661
1132	27.73095703	33.54087067
1133	25.19527435	34.47636414
1134	22.04413223	37.06128693
1135	20.54241753	37.20899582
1136	24.35825157	38.02139664
1137	29.35576248	40.53246307
1138	32.28533936	42.64963531
1139	31.32522392	43.38818359
1140	29.65118217	44.54524612
1141	27.41091919	47.42558289
1142	26.84469795	49.51813507
1143	27.97713852	49.37042618
1144	29.70041847	47.49943924
1145	29.18343353	45.23455429
1146	26.9677887	43.56051254

	A	B	C	D	E	F	G	H	I	J	K
1147								.006410	20.99	29.43	9.13
1148								.006420	17.16	30.32	9.20
1149								.006430	15.91	26.33	10.31
1150								.006440	18.34	24.48	12.67
1151								.006450	19.15	23.82	14.73
1152								.006460	21.51	24.26	16.35
1153								.006470	22.39	22.71	14.58
1154								.006480	20.47	20.27	11.04
1155								.006490	15.46	16.14	7.51
1156								.006500	12.08	14.81	8.69
1157								.006510	9.64	14.58	11.04
1158								.006520	9.87	16.36	12.00
1159								.006530	13.18	18.35	8.54
1160								.006540	18.04	19.61	6.48
1161								.006550	18.41	17.91	7.51
1162								.006560	16.79	17.32	8.54
1163								.006570	14.36	15.91	.88
1164								.006580	15.02	15.47	-6.49
1165								.006590	14.80	14.73	-1.33
1166								.006600	12.74	13.77	11.56
1167								.006610	9.13	10.74	14.21
1168								.006620	8.83	8.53	8.02
1169								.006630	11.04	9.49	3.09
1170								.006640	14.43	12.52	5.15
1171								.006650	15.10	11.93	8.02
1172								.006660	14.73	11.11	10.90
1173								.006670	15.10	11.70	10.38
1174								.006680	18.56	10.45	7.44
1175								.006690	20.69	5.28	5.37
1176								.006700	22.46	8.31	10.01
1177								.006710	23.49	18.57	15.02
1178								.006720	25.85	25.22	15.69
1179								.006730	24.67	21.82	13.48
1180								.006740	22.09	19.16	15.39
1181								.006750	21.51	22.56	18.41
1182								.006760	25.34	27.44	20.33
1183								.006770	28.65	27.66	16.27
1184								.006780	29.02	25.22	11.78
1185								.006790	26.37	23.08	8.69
1186								.006800	27.40	24.63	9.87
1187								.006810	32.63	26.99	10.90
1188								.006820	40.95	28.03	14.58
1189								.006830	43.90	25.59	17.97
1190								.006840	41.91	20.42	19.15
1191								.006850	38.89	14.36	14.58
1192								.006860	43.02	16.43	10.75
1193								.006870	54.29	21.16	11.49
1194								.006880	68.06	24.19	17.67
1195								.006890	69.09	23.00	22.68
1196								.006900	58.04	21.60	25.34

	L	M	N	O	P	Q	R	S	T
1147	27.29	-11.13	30.83	42.87	35.93	33.00	49.44	33.59	50.33
1148	23.00	-12.45	27.58	35.80	33.05	31.82	47.52	34.47	50.11
1149	19.16	-12.53	26.84	34.62	28.25	36.09	48.04	33.88	50.55
1150	18.57	-12.53	28.62	37.12	25.22	38.37	48.19	33.81	49.67
1151	19.16	-14.30	30.32	38.01	25.07	40.44	50.92	32.85	43.98
1152	21.97	-17.24	31.35	38.08	25.22	41.03	52.55	37.56	42.35
1153	24.33	-18.42	30.61	37.05	23.00	40.14	52.99	43.97	45.09
1154	23.82	-15.11	28.40	37.27	22.93	38.30	51.22	49.94	48.78
1155	19.90	-10.17	27.36	36.09	25.37	39.04	49.15	49.87	45.60
1156	21.67	-5.53	29.95	35.65	29.21	41.32	46.12	46.55	40.73
1157	28.32	-3.17	31.87	34.54	28.84	42.72	44.05	38.23	37.55
1158	32.83	-3.91	31.42	33.44	28.17	38.89	40.29	33.37	39.77
1159	30.02	-7.00	30.39	30.34	27.88	33.88	36.59	34.54	42.65
1160	25.96	-10.69	31.57	30.71	29.36	30.71	32.46	38.15	44.27
1161	25.59	-14.15	32.61	31.16	28.47	34.25	30.24	37.42	43.54
1162	27.44	-14.44	32.24	32.26	30.46	37.42	26.70	37.27	41.62
1163	24.26	-11.05	33.34	31.38	32.75	37.34	24.92	38.45	37.70
1164	18.79	-8.70	35.56	30.34	30.39	37.27	24.33	38.60	34.97
1165	15.84	-9.14	33.64	29.17	25.37	39.26	24.92	37.27	34.82
1166	15.91	-12.90	28.76	30.05	26.62	37.34	22.12	37.56	34.08
1167	14.14	-14.89	25.81	30.64	32.46	36.97	23.15	36.97	27.73
1168	15.54	-12.23	24.92	29.46	33.64	38.01	25.37	35.50	22.86
1169	19.39	-7.08	24.56	27.69	27.80	37.93	26.70	35.13	25.96
1170	22.27	-5.90	26.18	27.25	22.12	30.93	23.89	36.53	31.57
1171	19.02	-7.37	28.99	30.12	20.79	25.78	23.15	34.18	30.98
1172	14.66	-8.03	31.42	34.54	21.75	24.45	24.92	34.32	28.91
1173	11.41	-6.05	32.01	32.63	19.39	26.22	26.55	36.75	26.77
1174	7.72	-6.27	29.50	28.58	16.51	26.81	23.30	39.18	24.78
1175	4.39	-10.24	25.96	27.10	14.22	28.06	18.28	36.46	19.16
1176	7.79	-12.16	24.70	30.86	13.11	27.10	13.55	35.50	16.51
1177	12.07	-10.54	25.22	33.07	10.01	25.63	15.84	36.16	16.73
1178	13.77	-8.84	25.52	33.07	7.86	25.04	21.38	37.27	19.61
1179	12.37	-8.70	24.63	31.23	8.97	26.29	24.41	36.24	19.31
1180	15.62	-7.81	23.82	31.82	14.58	25.26	21.53	34.91	16.36
1181	20.86	-7.45	22.19	33.22	17.24	24.23	19.16	32.63	11.26
1182	23.82	-8.99	20.64	34.62	15.91	22.68	19.02	33.14	10.30
1183	18.87	-10.61	20.57	33.29	11.48	23.57	21.90	35.58	10.52
1184	14.14	-9.88	21.31	32.41	11.48	25.85	23.45	38.08	10.08
1185	13.18	-9.80	19.46	31.89	16.14	30.12	23.37	39.48	8.16
1186	16.73	-12.09	15.47	33.88	21.53	31.89	18.50	38.96	4.84
1187	16.95	-11.79	14.58	35.28	21.82	33.44	15.18	34.69	.77
1188	15.69	-8.84	16.51	37.78	20.79	32.92	14.22	33.00	1.44
1189	14.73	-5.24	17.39	40.36	22.27	31.23	14.88	34.25	3.14
1190	13.40	-3.69	15.32	40.95	24.48	26.66	11.70	34.91	1.73
1191	7.35	-1.85	14.29	37.71	21.75	26.59	8.09	30.57	-2.99
1192	5.87	-2.80	14.29	34.84	18.57	30.42	6.46	28.06	-2.55
1193	10.38	-6.12	14.36	35.50	20.35	36.75	7.94	27.91	2.77
1194	13.11	-8.55	13.92	36.68	24.92	39.33	8.97	30.79	8.31
1195	10.23	-4.72	14.95	33.59	25.74	39.04	9.56	32.41	6.61
1196	9.49	-.89	15.84	30.93	26.48	34.18	7.86	33.07	4.17

	U	V	W	X	Y	Z	AA	AB	AC	AD
1147	.006410	325.60	121.50	6.33	29.18	36.48	45.23		0.01142	15.90647411
1148	.006420	326.34	119.44	4.64	26.97	34.03	43.56		0.01143	18.3374176
1149	.006430	327.07	117.37	4.56	24.11	34.86	42.28		0.01144	19.14773178
1150	.006440	325.67	113.90	6.16	23.89	36.43	41.02		0.01145	21.5050087
1151	.006450	323.24	108.65	6.53	24.43	37.10	39.99		0.01146	22.38898849
1152	.006460	322.28	102.74	6.87	25.86	38.89	40.04		0.01147	20.47369957
1153	.006470	325.16	98.61	6.18	25.88	40.39	40.36		0.01148	15.46448421
1154	.006480	333.48	101.12	5.47	24.16	41.84	40.98		0.01149	12.07589722
1155	.006490	339.15	105.48	4.27	21.13	41.66	40.04		0.0115	9.64495373
1156	.006500	337.16	105.55	5.08	22.14	41.17	38.69		0.01151	9.86594868
1157	.006510	331.79	99.49	5.84	24.92	38.50	36.82		0.01152	13.18087101
1158	.006520	330.17	92.70	5.99	26.87	35.23	36.08		0.01153	18.04275703
1159	.006530	333.33	90.19	4.91	26.25	32.92	35.71		0.01154	18.41108131
1160	.006540	334.81	91.37	4.61	25.71	33.19	35.36		0.01155	16.79045296
1161	.006550	333.41	94.84	3.92	25.37	34.27	34.08		0.01156	14.35951042
1162	.006560	328.84	94.62	3.63	25.66	35.65	32.93		0.01157	15.02249432
1163	.006570	326.04	90.63	1.39	24.51	35.72	31.79		0.01158	14.80149937
1164	.006580	327.22	86.50	-.05	23.28	35.40	29.90		0.01159	12.73888111
1165	.006590	332.89	87.09	1.44	21.40	35.23	28.37		0.0116	9.12929916
1166	.006600	338.86	90.63	3.80	19.48	34.99	27.61		0.01161	8.83463955
1167	.006610	341.58	91.22	2.82	16.90	34.86	27.78		0.01162	11.04458809
1168	.006620	340.48	86.57	1.54	16.33	34.32	27.29		0.01163	14.43317509
1169	.006630	338.20	79.78	2.35	17.81	33.59	26.82		0.01164	15.09615898
1170	.006640	335.03	73.05	4.56	20.32	31.57	25.86		0.01165	14.7278347
1171	.006650	336.43	73.05	5.25	19.98	30.03	24.97		0.01166	15.09615898
1172	.006660	340.63	77.19	5.86	19.07	31.11	25.20		0.01167	18.55841255
1173	.006670	344.02	80.74	6.48	18.38	31.87	24.24		0.01168	20.69469452
1174	.006680	346.81	80.44	6.58	15.89	31.52	21.53		0.01169	22.46265411
1175	.006690	347.11	75.42	5.27	11.88	30.54	17.22		0.0117	23.49396324
1176	.006700	345.64	71.72	6.77	13.60	31.16	14.39		0.01171	25.85124016
1177	.006710	343.57	70.91	9.33	18.62	31.62	14.19		0.01172	24.6726017
1178	.006720	344.90	73.35	10.90	21.50	31.79	16.28		0.01173	22.09432793
1179	.006730	348.73	76.38	9.82	19.61	31.25	17.56		0.01174	21.5050087
1180	.006740	349.39	75.57	9.89	19.53	30.66	17.49		0.01175	25.33558655
1181	.006750	349.10	71.87	10.82	21.87	30.03	15.89		0.01176	28.65050888
1182	.006760	348.95	67.59	12.22	23.96	30.15	15.08		0.01177	29.01883316
1183	.006770	346.37	65.82	11.44	22.36	30.81	14.63		0.01178	26.36689568
1184	.006780	340.85	67.22	10.31	20.22	32.11	15.00		0.01179	27.3982048
1185	.006790	340.63	69.51	8.42	18.57	33.83	15.89		0.0118	32.62841415
1186	.006800	348.14	68.77	8.39	18.94	34.91	14.95		0.01181	40.9525528
1187	.006810	353.15	64.27	10.58	19.51	34.47	12.59		0.01182	43.89915085
1188	.006820	347.55	60.28	15.56	20.07	34.57	12.15		0.01183	41.91019821
1189	.006830	338.71	59.39	18.88	19.24	35.28	13.43		0.01184	38.88993454
1190	.006840	337.46	60.13	19.12	16.38	34.18	12.64		0.01185	43.01517105
1191	.006850	341.81	61.09	17.21	12.00	31.62	8.95		0.01186	54.28590775
1192	.006860	341.66	62.12	16.99	12.20	31.11	7.49		0.01187	68.06124878
1193	.006870	339.01	65.23	19.88	15.30	33.39	10.35		0.01188	69.09255981
1194	.006880	339.23	70.40	25.73	17.07	35.60	14.07		0.01189	58.04281998
1195	.006890	341.36	74.09	29.02	16.06	35.01	13.97		0.0119	46.403759
1196	.006900	343.57	74.83	27.50	15.64	32.73	12.84		0.01191	44.70946503

	AE	AF	AG	AH	AI
1147	10.30793858	-12.52819347	34.61737061	36.09066772	33.88071823
1148	12.66521645	-12.52819347	37.12197495	38.37427902	33.80705261
1149	14.7278347	-14.29615211	38.00595474	40.43689728	32.84941101
1150	16.34846306	-17.24275017	38.07962036	41.02621841	37.56396484
1151	14.58050442	-18.42138863	37.04831314	40.14223862	43.97281647
1152	11.04458809	-15.10646629	37.26930618	38.30061722	49.93967819
1153	7.50867033	-10.1709156	36.09066772	39.03726578	49.86601257
1154	8.68730927	-5.53002405	35.64867783	41.32087708	46.55109024
1155	11.04458809	-3.17274594	34.54370499	42.72051239	38.2269516
1156	12.0022316	-3.90939546	33.43872833	38.88993454	33.36506653
1157	8.53997993	-7.00332308	30.34480286	33.88071823	34.54370499
1158	6.4773612	-10.68657017	30.71312714	30.71312714	38.15328598
1159	7.50867033	-14.14882183	31.15511703	34.24904251	37.41663742
1160	8.53997993	-14.44348145	32.26008987	37.41663742	37.26930618
1161	0.87882584	-11.05489445	31.37611198	37.3429718	38.44794464
1162	-6.48766804	-8.69761658	30.34480286	37.26930618	38.59527588
1163	-1.3311224	-9.13960648	29.16616249	39.25825882	37.26930618
1164	11.56024265	-12.89651775	30.05014229	37.3429718	37.56396484
1165	14.21218014	-14.88547134	30.63946152	36.97464752	36.97464752
1166	8.02432537	-12.23353386	29.46082306	38.00595474	35.50134659
1167	3.08877397	-7.07698774	27.69286346	37.93229294	35.13302231
1168	5.15139246	-5.89834881	27.25087547	30.93412209	36.53265762
1169	8.02432537	-7.37164736	30.12380791	25.77757645	34.17538071
1170	10.8972578	-8.03463173	34.54370499	24.45160675	34.32270813
1171	10.38160324	-6.04567862	32.62841415	26.21956635	36.75365067
1172	7.43500566	-6.26667356	28.57684326	26.80888557	39.1845932
1173	5.37238741	-10.24458027	27.10354424	28.06118965	36.458992
1174	10.01327896	-12.15986919	30.86045647	27.10354424	35.50134659
1175	15.02249432	-10.53923988	33.07040405	25.63024521	36.16433334
1176	15.68547916	-8.84494591	33.07040405	25.04092598	37.26930618
1177	13.47553062	-8.69761658	31.22878075	26.29323006	36.23799896
1178	15.39081955	-7.81363726	31.81810188	25.26192093	34.91202927
1179	18.41108131	-7.4453125	33.21773529	24.2306118	32.62841415
1180	20.32637024	-8.99227619	34.61737061	22.68364906	33.14406967
1181	16.27479935	-10.61290455	33.29140091	23.56762695	35.57501221
1182	11.78123665	-9.87625599	32.40742111	25.85124016	38.07962036
1183	8.68730927	-9.80259037	31.89176559	30.12380791	39.47925568
1184	9.86594868	-12.08620358	33.88071823	31.89176559	38.96360016
1185	10.8972578	-11.79154396	35.28035355	33.43872833	34.69103241
1186	14.58050442	-8.84494591	37.7849617	32.92307663	32.99673843
1187	17.96909142	-5.23536444	40.36323547	31.22878075	34.24904251
1188	19.14773178	-3.68840051	40.9525528	26.66155434	34.91202927
1189	14.58050442	-1.84677696	37.71129608	26.58789063	30.56579781
1190	10.74992752	-2.80442119	34.83836365	30.41846657	28.06118965
1191	11.48657703	-6.11934376	35.50134659	36.75365067	27.91385841
1192	17.67443275	-8.55028629	36.67998886	39.33192444	30.78679276
1193	22.68364906	-4.71970987	33.58605957	39.03726578	32.40742111
1194	25.33558655	-0.88913274	30.93412209	34.17538071	33.07040405
1195	23.71495819	-0.594473	29.90281296	30.63946152	33.73339081
1196	21.0630188	-1.47845232	30.93412209	30.05014229	37.71129608

	AJ	AK	AL	AM	AN
1147	26.32771492	19.16379356	26.84469795	28.24794006	48.04103851
1148	24.48134232	18.57295418	28.6172142	25.21989059	48.18874741
1149	23.81664848	19.16379356	30.31587601	25.0721817	50.92137909
1150	24.25977898	21.97027779	31.34984398	25.21989059	52.54618454
1151	22.70882607	24.33363342	30.6112957	23.00424576	52.98931503
1152	20.27161598	23.81664848	28.39564896	22.93039131	51.21679688
1153	16.13574409	19.90234184	27.36168289	25.36760139	49.14886093
1154	14.80635738	21.67485809	29.94660187	29.20805359	46.12081528
1155	14.58479309	28.32179451	31.86682701	28.83877945	44.05287933
1156	16.35730934	32.82694244	31.42369843	28.17408562	40.28628159
1157	18.35139084	30.02045631	30.38973045	27.87866592	36.59353638
1158	19.60692215	25.95843887	31.57140923	29.35576248	32.4576683
1159	17.90826225	25.58916473	32.6053772	28.46950531	30.24202156
1160	17.31742287	27.43553734	32.23610306	30.4635849	26.69698906
1161	15.91418076	24.25977898	33.34392548	32.75308609	24.92447281
1162	15.47105122	18.79451942	35.55957031	30.38973045	24.33363342
1163	14.73250294	15.84032536	33.63934326	25.36760139	24.92447281
1164	13.77238941	15.91418076	28.764925	26.62313271	22.11798859
1165	10.7443409	14.14166355	25.81072998	32.4576683	23.15195465
1166	8.52869511	15.54490662	24.92447281	33.63934326	25.36760139
1167	9.48880863	19.38535881	24.55519676	27.80481148	26.69698906
1168	12.51685715	22.26569748	26.18000412	22.11798859	23.89050484
1169	11.92601871	19.01608467	28.98648834	20.78860092	23.15195465
1170	11.11361504	14.65864754	31.42369843	21.74871254	24.92447281
1171	11.70445442	11.40903473	32.01453781	19.38535881	26.54927826
1172	10.4489212	7.71629238	29.50347328	16.50501823	23.29966545
1173	5.2790823	4.39282417	25.95843887	14.21551895	18.27753639
1174	8.30713081	7.79014683	24.70290756	13.10769653	13.55082512
1175	18.57295418	12.07372856	25.21989059	10.00579262	15.84032536
1176	25.21989059	13.77238941	25.51531029	7.86400175	21.3794384
1177	21.82256889	12.3691473	24.62905312	8.97182465	24.40748787
1178	19.16379356	15.61876106	23.81664848	14.58479309	21.5271492
1179	22.56111717	20.86245537	22.19184303	17.24356842	19.16379356
1180	27.43553734	23.81664848	20.64089012	15.91418076	19.01608467
1181	27.65710068	18.86837387	20.56703568	11.48288918	21.89642334
1182	25.21989059	14.14166355	21.30558395	11.48288918	23.44737434
1183	23.0781002	13.18155098	19.45921326	16.13574409	23.3735199
1184	24.62905312	16.72658348	15.47105122	21.5271492	18.49909973
1185	26.99240685	16.94814873	14.58479309	21.82256889	15.17563152
1186	28.02637482	15.69261551	16.50501823	20.78860092	14.21551895
1187	25.58916473	14.73250294	17.39127731	22.26569748	14.88021278
1188	20.41932678	13.40311527	15.32334137	24.48134232	11.70445442
1189	14.3632288	7.34701777	14.2893734	21.74871254	8.08556652
1190	16.43116379	5.86992073	14.2893734	18.57295418	6.46075964
1191	21.15787506	10.37506676	14.3632288	20.34547043	7.93785667
1192	24.18592262	13.10769653	13.92009926	24.92447281	8.97182465
1193	23.00424576	10.22735691	14.95406723	25.73687553	9.56266308
1194	21.60100365	9.48880863	15.84032536	26.47542381	7.86400175
1195	19.75463295	11.99987316	16.50501823	27.14011765	7.49472761
1196	20.78860092	15.47105122	18.86837387	27.73095703	6.9038887

	AO	AP	AQ	AR	AS
1147	50.55210495	327.0726929	117.3672638	4.56207323	34.86291885
1148	49.66584778	325.6730347	113.89608	6.15814686	36.4344368
1149	43.97902298	323.242096	108.6523895	6.52647161	37.09741974
1150	42.35421753	322.2844544	102.7440033	6.87024069	38.88993454
1151	45.0868454	325.1573792	98.60813141	6.18270159	40.38779068
1152	48.77958679	333.4815369	101.119194	5.47060728	41.83653259
1153	45.60382843	339.153717	105.4766312	4.26741314	41.66464996
1154	40.72940826	337.1647644	105.5504837	5.07772732	41.17354965
1155	37.5536499	331.7872315	99.49438477	5.83893204	38.49705505
1156	39.76929474	330.1665955	92.69974518	5.98626137	35.23124313
1157	42.64963531	333.334198	90.18867493	4.90584278	32.92307663
1158	44.27444077	334.8074951	91.3703537	4.61118269	33.19318008
1159	43.53589249	333.4078674	94.84152985	3.92364335	34.27359772
1160	41.61566925	328.8406372	94.6199646	3.62898374	35.64867783
1161	37.70136261	326.0413818	90.63180542	1.39448059	35.72234344
1162	34.96873093	327.2200012	86.49593353	-0.05426343	35.40312958
1163	34.82102203	332.8922119	87.08677673	1.44359016	35.23124313
1164	34.08247375	338.8590698	90.63180542	3.80086875	34.98569489
1165	27.73095703	341.5846863	91.22264099	2.81866932	34.86291885
1166	22.85653687	340.4797058	86.56978607	1.54181039	34.32270813
1167	25.95843887	338.1960754	79.77514648	2.35212469	33.58605957
1168	31.57140923	335.0285034	73.05435181	4.56207275	31.57255173
1169	30.98056984	336.4281311	73.05435181	5.24961233	30.02558899
1170	28.9126339	340.6270447	77.19022369	5.86348677	31.10600662
1171	26.77084351	344.015625	80.73525238	6.4773612	31.86721039
1172	24.77676201	346.8148804	80.43983459	6.57558155	31.52344131
1173	19.16379356	347.1095581	75.41770935	5.27416706	30.5412426
1174	16.50501823	345.636261	71.72496796	6.77202129	31.15511513
1175	16.72658348	343.5736389	70.91255951	9.32573891	31.62166023
1176	19.60692215	344.8995972	73.34976959	10.8972578	31.79354477
1177	19.31150436	348.7301636	76.37782288	9.81683826	31.25333595
1178	16.35730934	349.393158	75.56541443	9.89050293	30.66401672
1179	11.26132488	349.0985107	71.87267303	10.82359219	30.02558708
1180	10.30121231	348.9511719	67.58909607	12.22322655	30.14836311
1181	10.5227766	346.3728943	65.8165741	11.43746758	30.81134605
1182	10.07964706	340.8480225	67.21981812	10.30793762	32.11276245
1183	8.15942097	340.6270447	69.50931549	8.41720486	33.83161163
1184	4.83595324	348.1408386	68.77076721	8.39264965	34.91202927
1185	0.77393639	353.1500549	64.265625	10.57804298	34.47003937
1186	1.43862998	347.5515442	60.27746201	15.56270409	34.56826019
1187	3.13729167	338.711731	59.39120483	18.87762642	35.28035355
1188	1.73404944	337.4594421	60.12975311	19.12317657	34.17537689
1189	-2.992661	341.8056641	61.08986664	17.20788765	31.62166214
1190	-2.5495317	341.6583252	62.1238327	16.9868927	31.10600662
1191	2.76801729	339.0064087	65.22573853	19.88438034	33.38961792
1192	8.30713081	339.2273865	70.39557648	25.72846603	35.59956741
1193	6.60846949	341.363678	74.08831787	29.01883316	35.01025009
1194	4.1712594	343.5736389	74.82686615	27.49642372	32.72663498
1195	4.24511433	341.8056641	70.61714172	23.17474747	31.4252224
1196	7.93785667	340.3323669	68.32764435	21.43134308	32.89852142

	AT	AU
1147	24.11206818	42.28036118
1148	23.89050293	41.02482986
1149	24.43210602	39.99085999
1150	25.85996628	40.04009628
1151	25.88458443	40.36013412
1152	24.16130447	40.97559357
1153	21.13325691	40.04009628
1154	22.14260483	38.68609238
1155	24.9244709	36.81510162
1156	26.8693161	36.07655334
1157	26.25385857	35.70727921
1158	25.71225739	35.36262512
1159	25.36760139	34.08247375
1160	25.66302109	32.92541504
1161	24.50596237	31.79297447
1162	23.2750473	29.89736557
1163	21.40405655	28.37103271
1164	19.48383141	27.60786438
1165	16.89891052	27.78019333
1166	16.33269119	27.28782654
1167	17.80978775	26.8200798
1168	20.32085228	25.85996819
1169	19.97619629	24.97370911
1170	19.06532097	25.19527245
1171	18.37600899	24.23516083
1172	15.88956261	21.5271492
1173	11.87678146	17.21895027
1174	13.60006142	14.38784695
1175	18.62219048	14.1909008
1176	21.50252914	16.2834549
1177	19.60692215	17.56360626
1178	19.5330677	17.48974991
1179	21.87180519	15.88956261
1180	23.96435928	15.07715893
1181	22.36417007	14.63402939
1182	20.22237968	15.00330353
1183	18.57295418	15.88956165
1184	18.94223022	14.95406723
1185	19.50844955	12.59071255
1186	20.07466888	12.14758301
1187	19.23764801	13.42773438
1188	16.38192749	12.63994884
1189	11.99987316	8.9472065
1190	12.19681931	7.49472713
1191	15.29872322	10.35044861
1192	17.07123947	14.0678091
1193	16.06188965	13.96933556
1194	15.64337921	12.83689499
1195	16.0865078	12.95998669
1196	18.37600899	14.1909008

	A	B	C	D	E	F	G	H	I	J	K
1197								.006910	46.40	19.75	23.71
1198								.006920	44.71	20.79	21.06
1199								.006930	43.31	22.12	20.33
1200								.006940	40.36	24.33	21.95
1201								.006950	39.33	24.11	22.32
1202								.006960	43.83	23.37	24.16
1203								.006970	43.90	22.86	28.65
1204								.006980	37.34	23.15	33.51
1205								.006990	31.82	21.67	31.67
1206								.007000	38.15	20.79	25.48
1207								.007010	49.20	22.04	19.30
1208								.007020	55.83	26.55	18.85
1209								.007030	52.15	26.99	20.40
1210								.007040	46.62	24.48	22.39
1211								.007050	45.37	20.64	22.09
1212								.007060	49.94	20.05	22.09
1213								.007070	47.36	20.79	22.32
1214								.007080	38.52	22.78	23.13
1215								.007090	31.52	22.56	22.54
1216								.007100	28.87	23.74	21.51
1217								.007110	25.11	22.71	19.07
1218								.007120	26.22	21.67	18.26
1219								.007130	29.53	18.87	19.30
1220								.007140	32.19	20.27	20.47
1221								.007150	30.93	21.60	18.12
1222								.007160	31.08	22.12	18.26
1223								.007170	31.67	22.12	22.98
1224								.007180	29.02	23.45	27.10
1225								.007190	22.76	22.86	22.24
1226								.007200	21.51	22.56	18.93
1227								.007210	24.75	24.78	23.20
1228								.007220	26.44	30.24	29.46
1229								.007230	22.24	33.93	25.48
1230								.007240	17.38	34.30	16.94
1231								.007250	10.31	31.87	12.08
1232								.007260	2.79	29.95	15.32
1233								.007270	2.65	28.76	19.44
1234								.007280	19.07	29.73	19.37
1235								.007290	33.44	30.98	15.17
1236								.007300	31.52	32.31	12.52
1237								.007310	19.96	29.95	10.60
1238								.007320	18.12	28.47	7.73
1239								.007330	20.84	28.10	4.05
1240								.007340	20.69	29.06	4.56
1241								.007350	16.05	28.03	7.36
1242								.007360	15.54	31.20	9.13
1243								.007370	18.78	35.41	8.83
1244								.007380	22.32	37.48	9.42
1245								.007390	21.28	33.93	6.70
1246								.007400	21.21	32.16	3.83

	L	M	N	O	P	Q	R	S	T
1197	12.00	-.59	16.51	29.90	27.14	30.64	7.49	33.73	4.25
1198	15.47	-1.48	18.87	30.93	27.73	30.05	6.90	37.71	7.94
1199	14.29	-1.33	21.01	30.64	26.11	31.52	6.68	38.23	7.49
1200	12.37	-2.80	20.35	31.67	29.06	31.89	5.65	35.06	4.84
1201	11.19	-6.34	19.24	32.41	33.34	33.88	6.76	29.09	1.29
1202	11.93	-8.70	20.35	34.47	34.23	38.37	9.41	29.24	1.00
1203	12.07	-8.03	21.45	35.50	28.32	40.14	12.22	29.76	1.44
1204	13.55	-4.06	21.16	37.27	21.31	36.61	10.89	28.65	4.10
1205	14.14	-2.29	20.79	39.26	18.13	34.99	7.72	27.69	6.61
1206	12.96	-3.47	21.53	39.26	19.16	34.99	8.38	31.38	8.09
1207	8.23	-4.94	21.23	33.73	17.10	35.06	18.13	35.80	6.39
1208	4.76	-2.95	21.75	29.61	13.40	29.90	22.49	38.60	5.94
1209	5.65	2.20	22.86	30.64	9.86	27.03	18.13	37.71	7.64
1210	12.22	6.48	20.20	35.43	9.71	28.80	15.54	35.65	9.86
1211	15.32	7.07	19.31	35.80	7.86	32.33	24.63	33.44	10.08
1212	15.54	3.02	22.49	35.50	7.49	30.34	31.72	30.64	11.63
1213	15.54	-1.92	26.11	35.80	9.86	27.99	31.28	26.51	13.70
1214	19.31	-5.75	25.07	35.94	13.70	25.63	26.84	26.22	17.54
1215	22.27	-4.72	24.19	34.62	16.14	23.86	28.84	26.07	18.13
1216	23.00	-2.58	26.70	37.42	18.43	19.00	30.76	24.75	18.13
1217	21.53	-2.36	29.73	41.69	19.68	17.90	31.13	21.87	16.65
1218	20.94	-2.66	29.95	41.84	21.31	22.68	29.36	22.39	17.54
1219	19.68	.58	29.95	35.06	22.78	28.72	28.32	21.28	16.21
1220	19.31	5.15	30.61	30.20	26.18	28.36	26.77	20.18	14.14
1221	18.28	7.51	30.02	31.52	26.48	24.16	26.62	18.56	12.37
1222	17.24	5.67	27.29	35.58	26.84	21.43	26.70	19.74	15.03
1223	16.36	2.65	25.00	33.59	29.06	25.04	26.77	19.37	16.95
1224	18.28	1.47	26.84	29.83	33.20	27.84	26.40	19.00	20.12
1225	22.04	.14	31.05	27.99	35.26	26.81	26.99	18.41	23.45
1226	24.78	-2.95	33.20	30.42	37.18	22.17	24.70	20.11	27.29
1227	22.56	-4.43	32.97	30.57	36.15	21.80	21.45	19.81	27.73
1228	21.16	.14	33.71	30.79	33.34	23.05	19.31	17.38	28.32
1229	22.63	4.41	33.64	29.68	29.58	24.89	20.57	14.29	30.24
1230	24.78	3.75	32.01	28.13	28.54	25.63	20.35	15.46	33.64
1231	24.92	1.62	30.32	23.42	26.55	27.84	19.75	16.94	33.86
1232	26.40	4.34	30.09	22.39	25.66	27.84	17.24	18.04	33.12
1233	27.88	10.38	29.80	24.75	24.41	27.10	17.69	19.30	33.64
1234	27.29	12.67	29.73	27.69	22.86	25.34	19.68	21.28	37.63
1235	25.52	9.28	32.68	25.92	18.87	26.88	23.30	19.37	38.96
1236	27.73	5.45	34.67	25.04	18.13	30.42	25.07	14.88	38.51
1237	30.24	8.54	35.19	23.86	18.57	34.62	27.29	13.25	37.48
1238	27.44	11.63	33.34	22.09	20.20	32.78	28.32	17.90	37.78
1239	13.55	12.37	34.89	18.85	20.64	29.76	31.57	20.25	36.82
1240	.48	12.30	39.25	17.23	21.82	24.75	31.87	19.37	37.78
1241	5.06	13.33	42.87	16.42	21.67	24.16	30.54	15.98	37.63
1242	24.92	12.22	41.84	17.53	21.08	26.37	29.36	17.82	37.78
1243	37.70	10.60	40.14	19.00	20.79	31.16	32.46	23.27	37.48
1244	37.33	10.01	40.29	19.59	22.56	31.97	36.59	27.69	37.78
1245	30.61	11.19	40.43	17.09	24.19	29.68	38.81	23.27	34.97
1246	28.62	10.82	38.00	17.67	27.51	26.22	37.78	15.54	33.05

	U	V	W	X	Y	Z	AA	AB	AC	AD
1197	.006910	341.81	70.62	23.17	16.09	31.43	12.96		0.01192	43.30983353
1198	.006920	340.33	68.33	21.43	18.38	32.90	14.19		0.01193	40.36323547
1199	.006930	339.89	70.47	20.77	19.14	33.46	13.43		0.01194	39.33192444
1200	.006940	340.70	75.05	19.84	19.02	32.87	13.18		0.01195	43.82548523
1201	.006950	342.54	78.22	18.44	18.18	31.79	13.80		0.01196	43.89915085
1202	.006960	341.58	78.82	19.76	18.55	34.03	14.88		0.01197	37.3429718
1203	.006970	338.56	79.63	21.51	18.79	35.13	13.99		0.01198	31.81810188
1204	.006980	334.14	82.80	22.27	19.29	34.18	12.10		0.01199	38.15328598
1205	.006990	330.76	85.24	20.40	18.87	33.98	10.82		0.012	49.20302582
1206	.007000	331.27	87.97	20.06	18.43	35.21	11.88		0.01201	55.83287048
1207	.007010	336.13	88.79	21.19	17.17	34.86	13.87		0.01202	52.14962387
1208	.007020	338.79	87.68	23.91	17.69	32.70	13.94		0.01203	46.62475586
1209	.007030	328.03	84.06	24.92	18.50	31.79	11.88		0.01204	45.37245178
1210	.007040	311.16	82.21	25.16	18.97	33.29	11.70		0.01205	49.93967819
1211	.007050	306.23	85.61	24.84	18.43	33.86	14.19		0.01206	47.36140442
1212	.007060	313.74	89.15	25.02	19.36	32.16	16.95		0.01207	38.52161026
1213	.007070	320.88	89.75	22.59	20.81	30.10	18.28		0.01208	31.52344131
1214	.007080	319.12	89.75	18.63	22.39	29.26	19.36		0.01209	28.87150383
1215	.007090	309.84	91.44	16.45	23.00	28.18	21.03		0.0121	25.1145916
1216	.007100	301.95	93.96	15.93	24.48	27.05	22.44		0.01211	26.21956635
1217	.007110	298.93	92.26	13.94	24.65	27.15	22.49		0.01212	29.53448868
1218	.007120	304.53	90.34	13.94	24.19	28.97	22.73		0.01213	32.18642426
1219	.007130	310.57	90.34	16.47	22.83	28.36	22.44		0.01214	30.93412209
1220	.007140	311.46	94.47	19.27	23.40	26.24	22.36		0.01215	31.08145142
1221	.007150	306.74	96.91	18.85	23.30	24.75	21.82		0.01216	31.67077065
1222	.007160	303.35	94.99	18.34	22.22	25.58	22.86		0.01217	29.01883316
1223	.007170	303.21	91.52	19.10	21.16	26.00	24.26		0.01218	22.75731277
1224	.007180	305.27	91.15	19.20	22.86	25.56	26.57		0.01219	21.5050087
1225	.007190	307.63	94.25	15.05	25.32	24.40	28.57		0.0122	24.74626732
1226	.007200	311.60	97.80	12.49	26.84	24.23	29.73		0.01221	26.44055939
1227	.007210	312.71	97.87	14.51	26.77	24.06	28.44		0.01222	22.24165916
1228	.007220	310.57	99.20	18.68	28.37	23.74	26.99		0.01223	17.37977219
1229	.007230	308.36	101.41	17.38	30.07	22.95	26.80		0.01224	10.30793858
1230	.007240	309.84	103.93	12.69	30.37	23.08	27.51		0.01225	2.79411435
1231	.007250	312.93	106.29	8.00	29.04	22.73	26.72		0.01226	2.64678431
1232	.007260	311.75	108.65	7.48	28.81	22.76	25.34		0.01227	19.07406616
1233	.007270	309.69	111.09	10.82	28.81	23.71	25.24		0.01228	33.43872833
1234	.007280	308.66	112.20	17.04	28.91	24.77	26.72		0.01229	31.52344131
1235	.007290	309.69	112.57	19.30	29.73	24.06	27.04		0.0123	19.95804596
1236	.007300	311.75	111.90	16.50	31.57	23.44	27.24		0.01231	18.11642265
1237	.007310	311.82	108.73	13.03	31.79	23.91	27.78		0.01232	20.84202385
1238	.007320	312.19	111.24	12.49	29.75	24.26	28.76		0.01233	20.69469452
1239	.007330	310.20	116.48	12.42	25.52	22.95	29.68		0.01234	16.0538044
1240	.007340	310.06	119.73	12.52	22.93	20.45	30.49		0.01235	15.53814888
1241	.007350	311.31	118.33	12.25	25.32	18.85	29.95		0.01236	18.77940559
1242	.007360	311.60	119.21	12.30	32.65	20.57	29.40		0.01237	22.31532288
1243	.007370	312.19	126.01	12.74	37.75	24.48	30.24		0.01238	21.28401375
1244	.007380	312.63	132.14	13.92	38.37	26.42	32.31		0.01239	21.21035004
1245	.007390	314.03	133.76	13.06	34.99	23.35	32.65		0.0124	20.98935509
1246	.007400	317.35	134.06	11.95	32.93	19.81	32.78		0.01241	21.57867432

	AE	AF	AG	AH	AI
1197	20.32637024	-1.3311224	30.63946152	31.52344131	38.2269516
1198	21.9469986	-2.80442119	31.67077065	31.89176559	35.05935669
1199	22.31532288	-6.34033823	32.40742111	33.88071823	29.09249878
1200	24.15694809	-8.69761658	34.47003937	38.37427902	29.23982811
1201	28.65050888	-8.03463173	35.50134659	40.14223862	29.75548172
1202	33.51239395	-4.05672503	37.26930618	36.60632324	28.65050888
1203	31.67077065	-2.28876662	39.25825882	34.98569489	27.69286346
1204	25.48291588	-3.4674058	39.25825882	34.98569489	31.37611198
1205	19.29506111	-4.94070435	33.73339081	35.05935669	35.79600906
1206	18.85307121	-2.95175099	29.60815239	29.90281296	38.59527588
1207	20.40003586	2.20479465	30.63946152	27.02988052	37.71129608
1208	22.38898849	6.4773612	35.42768478	28.79783821	35.64867783
1209	22.09432793	7.06668091	35.79600906	32.33375549	33.43872833
1210	22.09432793	3.01510906	35.50134659	30.34480286	30.63946152
1211	22.31532288	-1.92044199	35.79600906	27.98752403	26.51422501
1212	23.12563705	-5.751019	35.94333649	25.63024521	26.21956635
1213	22.53631783	-4.71970987	34.61737061	23.86228752	26.07223511
1214	21.5050087	-2.58342648	37.41663742	19.00040054	24.74626732
1215	19.07406616	-2.36243153	41.68920135	17.8954277	21.87333488
1216	18.26375198	-2.65709138	41.83653259	22.68364906	22.38898849
1217	19.29506111	0.58416605	35.05935669	28.72417259	21.28401375
1218	20.47369957	5.15139246	30.19747162	28.35584831	20.17904091
1219	18.11642265	7.50867033	31.52344131	24.15694809	18.55841255
1220	18.26375198	5.66704702	35.57501221	21.43134499	19.73705101
1221	22.97830772	2.64678431	33.58605957	25.04092598	19.36872673
1222	27.10354424	1.46814537	29.82914734	27.8401947	19.00040054
1223	22.24165916	0.1421764	27.98752403	26.80888557	18.41108131
1224	18.92673683	-2.95175099	30.41846657	22.16799355	20.10537529
1225	23.19930267	-4.42504978	30.56579781	21.79966927	19.81071472
1226	29.46082306	0.1421764	30.78679276	23.05197334	17.37977219
1227	25.48291588	4.41474295	29.68181801	24.89359665	14.2858448
1228	16.93778229	3.75175858	28.13485336	25.63024521	15.46448421
1229	12.07589722	1.61547518	23.42029762	27.8401947	16.93778229
1230	15.31715393	4.3410778	22.38898849	27.8401947	18.04275703
1231	19.44239044	10.38160324	24.74626732	27.10354424	19.29506111
1232	19.36872673	12.66521645	27.69286346	25.33558655	21.28401375
1233	15.1698246	9.27662945	25.92490578	26.88254929	19.36872673
1234	12.51788616	5.44605207	25.04092598	30.41846657	14.87516499
1235	10.60259819	8.53997993	23.86228752	34.61737061	13.25453568
1236	7.72966528	11.63390732	22.09432793	32.77574539	17.8954277
1237	4.04641819	12.37055683	18.85307121	29.75548172	20.25270462
1238	4.56207275	12.29689121	17.23244286	24.74626732	19.36872673
1239	7.36134052	13.32820129	16.42212868	24.15694809	15.98013878
1240	9.12929916	12.22322655	17.52710152	26.36689568	17.82176208
1241	8.83463955	10.60259819	19.00040054	31.15511703	23.27296829
1242	9.42395878	10.01327896	19.58972168	31.96543121	27.69286346
1243	6.69835615	11.19191742	17.08511353	29.68181801	23.27296829
1244	3.82542348	10.82359314	17.67443275	26.21956635	15.53814888
1245	2.42578959	9.42395878	19.58972168	28.2821846	11.26558208
1246	7.58233547	9.0556345	22.46265411	30.19747162	16.0538044

	AJ	AK	AL	AM	AN
1197	22.11798859	14.2893734	21.01016426	26.10614967	6.68232441
1198	24.33363342	12.3691473	20.34547043	29.06034279	5.64835644
1199	24.11206818	11.18747044	19.23764801	33.34392548	6.75617933
1200	23.3735199	11.92601871	20.34547043	34.23018265	9.41495323
1201	22.85653687	12.07372856	21.45329475	28.32179451	12.22143841
1202	23.15195465	13.55082512	21.15787506	21.30558395	10.89205074
1203	21.67485809	14.14166355	20.78860092	18.12982559	7.71629238
1204	20.78860092	12.95998669	21.5271492	19.16379356	8.38098621
1205	22.04413223	8.23327637	21.23172951	17.09585762	18.12982559
1206	26.54927826	4.76209831	21.74871254	13.40311527	22.48726273
1207	26.99240685	5.64835644	22.85653687	9.85808277	18.12982559
1208	24.48134232	12.22143841	20.19776154	9.71037292	15.54490662
1209	20.64089012	15.32334137	19.31150436	7.86400175	24.62905312
1210	20.05005264	15.54490662	22.48726273	7.49472761	31.71911812
1211	20.78860092	15.54490662	26.10614967	9.85808277	31.27598953
1212	22.78268051	19.31150436	25.0721817	13.69853497	26.84469795
1213	22.56111717	22.26569748	24.18592262	16.13574409	28.83877945
1214	23.74279404	23.00424576	26.69698906	18.42524529	30.75900459
1215	22.70882607	21.5271492	29.72503662	19.6807785	31.12827873
1216	21.67485809	20.93630981	29.94660187	21.30558395	29.35576248
1217	18.86837387	19.6807785	29.94660187	22.78268051	28.32179451
1218	20.27161598	19.31150436	30.6112957	26.18000412	26.77084351
1219	21.60100365	18.27753639	30.02045631	26.47542381	26.62313271
1220	22.11798859	17.24356842	27.28782654	26.84469795	26.69698906
1221	22.11798859	16.35730934	24.99832726	29.06034279	26.77084351
1222	23.44737434	18.27753639	26.84469795	33.19621658	26.40156937
1223	22.85653687	22.04413223	31.05442429	35.26415253	26.99240685
1224	22.56111717	24.77676201	33.19621658	37.18437576	24.70290756
1225	24.77676201	22.56111717	32.97465134	36.1504097	21.45329475
1226	30.24202156	21.15787506	33.71319962	33.34392548	19.31150436
1227	33.93476486	22.63497162	33.63934326	29.57732773	20.56703568
1228	34.304039	24.77676201	32.01453781	28.54335976	20.34547043
1229	31.86682701	24.92447281	30.31587601	26.54927826	19.75463295
1230	29.94660187	26.40156937	30.09431076	25.66302109	17.24356842
1231	28.764925	27.87866592	29.79889107	24.40748787	17.68669701
1232	29.72503662	27.28782654	29.72503662	22.85653687	19.6807785
1233	30.98056984	25.51531029	32.67922974	18.86837387	23.29966545
1234	32.3099556	27.73095703	34.67331314	18.12982559	25.0721817
1235	29.94660187	30.24202156	35.19029617	18.57295418	27.28782654
1236	28.46950531	27.43553734	33.34392548	20.19776154	28.32179451
1237	28.10023117	13.55082512	34.89487839	20.64089012	31.57140923
1238	29.06034279	0.478517	39.25231171	21.82256889	31.86682701
1239	28.02637482	5.05751753	42.87120056	21.67485809	30.53744125
1240	31.20213318	24.92447281	41.83723068	21.08402061	29.35576248
1241	35.41186142	37.70136261	40.13856888	20.78860092	32.4576683
1242	37.47979736	37.33208466	40.28628159	22.56111717	36.59353638
1243	33.93476486	30.6112957	40.43399048	24.18592262	38.80918503
1244	32.1622467	28.6172142	37.9967804	27.50939178	37.77521515
1245	32.90079498	29.79889107	37.25823212	29.65118217	38.07063675
1246	35.8549881	32.4576683	39.99085999	31.12827873	38.66147232

	AO	AP	AQ	AR	AS
1197	7.49472761	339.8903809	70.46942902	20.76836014	33.46328354
1198	4.83595324	340.7006836	75.0484314	19.83527184	32.8739624
1199	1.29092038	342.5423279	78.22418976	18.43563652	31.79354668
1200	0.99550092	341.5846863	78.81503296	19.76160622	34.02804947
1201	1.43862998	338.5644226	79.62743378	21.5050087	35.13302231
1202	4.09740448	334.1445007	82.80319214	22.26621437	34.17538071
1203	6.60846949	330.7559204	85.24040222	20.40003586	33.97893906
1204	8.08556652	331.2715759	87.97303009	20.05626488	35.20668793
1205	6.38690472	336.1334534	88.78543091	21.18579483	34.86291885
1206	5.94377565	338.7854004	87.6776123	23.91139603	32.70207977
1207	7.64243746	328.0303345	84.05872345	24.91815186	31.79354668
1208	9.85808277	311.1610413	82.21235657	25.16370201	33.29140091
1209	10.07964706	306.2254944	85.60967255	24.84448624	33.85616302
1210	11.63059902	313.7393189	89.15470886	25.01637268	32.16186905
1211	13.69853497	320.8848267	89.74554443	22.58542824	30.0992527
1212	17.53898621	319.1168823	89.74554443	18.63207626	29.26438332
1213	18.12982559	309.835083	91.44420624	16.44668388	28.18396378
1214	18.12982559	301.9529419	93.95527649	15.93102837	27.05443573
1215	16.65272903	298.9326782	92.25661469	13.94207573	27.15265465
1216	17.53898621	304.5312195	90.33638763	13.94207573	28.96972275
1217	16.20960045	310.5717468	90.33638763	16.47123909	28.35584831
1218	14.14166355	311.455719	94.47225952	19.27050591	26.24411964
1219	12.3691473	306.7411499	96.9094696	18.85307121	24.74626732
1220	15.02792263	303.3525696	94.98924255	18.3374176	25.5811367
1221	16.94814873	303.2052307	91.51806641	19.09862137	25.9985714
1222	20.12390709	305.2678528	91.14878845	19.19684029	25.5565815
1223	23.44737434	307.6251221	94.25069427	15.04704952	24.40249634
1224	27.28782654	311.6030579	97.79572296	12.49333191	24.2306118
1225	27.73095703	312.7080078	97.86958313	14.50683975	24.05872726
1226	28.32179451	310.5717468	99.19896698	18.68118668	23.7395134
1227	30.24202156	308.3617859	101.4146118	17.37977219	22.95375252
1228	33.63934326	309.835083	103.9256821	12.6897707	23.07652664
1229	33.86090851	312.9290161	106.289032	7.99977016	22.73275757
1230	33.12236023	311.7503662	108.6523895	7.4841156	22.75731277
1231	33.63934326	309.6877441	111.0895996	10.82359314	23.71495819
1232	37.62750626	308.6564331	112.1974182	17.03600311	24.77082062
1233	38.95689392	309.6877441	112.5666962	19.29506111	24.05872726
1234	38.51376343	311.7503662	111.9020004	16.49579239	23.44485283
1235	37.47979736	311.8240356	108.7262421	13.03354168	23.91139793
1236	37.77521515	312.1923523	111.2373123	12.49333191	24.25516701
1237	36.81510162	310.2033997	116.4810028	12.41966629	22.95375252
1238	37.77521515	310.0560913	119.7306137	12.51788616	20.44914627
1239	37.62750626	311.3083801	118.3273773	12.24778175	18.85307121
1240	37.77521515	311.6030579	119.2136307	12.29689121	20.57192039
1241	37.47979736	312.1923523	126.0082779	12.73888111	24.47616196
1242	37.77521515	312.6343384	132.1382294	13.91752052	26.41600609
1243	34.96873093	314.0339966	133.763031	13.05809593	23.34663391
1244	33.04850388	317.3489075	134.0584564	11.95312214	19.81071663
1245	32.1622467	319.2641907	135.7571259	10.94636822	19.7124958
1246	33.71319962	320.0008545	139.4498596	12.73888111	22.90464401

	AT	AU
1197	19.13917542	13.42773438
1198	19.01608276	13.18155098
1199	18.17906189	13.79700851
1200	18.54833603	14.88021183
1201	18.79451942	13.99395466
1202	19.28688431	12.09834671
1203	18.86837387	10.81819534
1204	18.42524529	11.87678242
1205	17.16971207	13.87086296
1206	17.68669701	13.94471741
1207	18.49909973	11.87678146
1208	18.96684647	11.70445442
1209	18.42524529	14.1909008
1210	19.36074066	16.94814873
1211	20.81321907	18.27753639
1212	22.38878822	19.36074066
1213	23.00424576	21.03478241
1214	24.48134232	22.43802452
1215	24.65367126	22.48726273
1216	24.18592262	22.73344421
1217	22.83191872	22.43802452
1218	23.39813805	22.36417007
1219	23.29966545	21.82256699
1220	22.21646118	22.85653687
1221	21.15787506	24.25977898
1222	22.85653687	26.57389832
1223	25.3183651	28.56797791
1224	26.84469795	29.72503662
1225	26.77084351	28.44488716
1226	28.37103271	26.99240875
1227	30.06969261	26.79546165
1228	30.3651123	27.50939178
1229	29.03572464	26.72160721
1230	28.8141613	25.34298325
1231	28.8141613	25.24450874
1232	28.9126339	26.72160721
1233	29.72503662	27.04164505
1234	31.57140923	27.23859024
1235	31.79297256	27.78019333
1236	29.74965668	28.7649231
1237	25.51531219	29.67580032
1238	22.93039131	30.48820305
1239	25.3183651	29.94660187
1240	32.65461349	29.40499878
1241	37.75059891	30.24202156
1242	38.36605453	32.3099556
1243	34.99335098	32.65461349
1244	32.92541504	32.77770233
1245	33.31930542	33.29468918
1246	36.1011734	34.50098419

	A	B	C	D	E	F	G	H	I	J	K
1247								.007410	20.99	32.90	2.43
1248								.007420	21.58	35.85	7.58
1249								.007430	20.40	34.67	15.32
1250								.007440	20.25	34.38	20.77
1251								.007450	18.41	36.15	19.88
1252								.007460	16.05	40.73	17.60
1253								.007470	14.21	42.21	13.25
1254								.007480	16.50	41.25	10.01
1255								.007490	18.56	38.22	9.13
1256								.007500	18.93	37.78	12.30
1257								.007510	17.16	39.77	14.88
1258								.007520	17.53	43.24	12.37
1259								.007530	17.67	43.83	6.33
1260								.007540	18.26	43.09	4.49
1261								.007550	15.61	39.40	7.95
1262								.007560	13.84	37.63	9.50
1263								.007570	16.20	37.92	6.11
1264								.007580	21.87	39.70	5.15
1265								.007590	22.02	38.81	6.85
1266								.007600	17.38	38.74	6.18
1267								.007610	11.34	37.78	1.25
1268								.007620	12.08	37.33	.22
1269								.007630	15.24	35.63	1.76
1270								.007640	18.78	37.78	1.62
1271								.007650	18.71	41.39	-1.70
1272								.007660	18.71	45.68	-2.36
1273								.007670	16.20	46.19	-1.04
1274								.007680	12.00	44.42	.88
1275								.007690	9.13	42.80	-.01
1276								.007700	9.94	43.09	-1.26
1277								.007710	7.51	41.25	-2.95
1278								.007720	4.78	40.66	-.52
1279								.007730	4.27	42.50	1.10
1280								.007740	7.51	46.71	-1.33
1281								.007750	6.62	45.75	-5.31
1282								.007760	4.86	43.83	-7.59
1283								.007770	3.46	42.87	-8.48
1284								.007780	5.00	46.12	-6.63
1285								.007790	.58	47.82	-2.36
1286								.007800	-5.60	49.96	1.76
1287								.007810	-9.95	50.63	.22
1288								.007820	-7.96	51.51	-1.92
1289								.007830	-5.01	49.30	-2.80
1290								.007840	-6.34	46.34	-1.70
1291								.007850	-15.33	44.72	-2.44
1292								.007860	-18.42	47.15	-1.55
1293								.007870	-10.39	49.15	-1.11
1294								.007880	1.91	51.00	-1.11
1295								.007890	5.08	51.73	-3.25
1296								.007900	3.02	52.69	-3.25

	L	M	N	O	P	Q	R	S	T
1247	29.80	9.42	37.26	19.59	29.65	28.28	38.07	11.27	32.16
1248	32.46	9.06	39.99	22.46	31.13	30.20	38.66	16.05	33.71
1249	35.41	8.91	44.13	21.36	31.28	29.61	40.51	22.39	33.27
1250	38.66	6.33	43.83	20.77	35.12	25.34	39.62	25.92	33.49
1251	37.63	2.65	39.10	19.59	39.70	24.45	37.78	21.80	34.30
1252	36.96	2.20	35.85	18.93	43.46	26.44	33.34	15.91	36.30
1253	39.03	4.05	38.14	13.99	43.39	28.50	31.87	14.36	36.74
1254	43.54	3.68	43.17	8.32	41.84	25.48	33.34	16.64	36.59
1255	44.50	.88	45.75	6.18	38.22	24.38	37.18	15.91	37.18
1256	42.72	-1.70	44.42	10.97	38.07	23.94	36.96	14.14	39.84
1257	42.80	-.52	42.87	15.54	40.06	23.49	34.53	13.03	42.35
1258	45.90	-.45	42.50	17.31	40.88	19.74	31.72	13.48	43.61
1259	48.78	-3.39	43.17	17.38	39.40	19.74	33.71	10.46	42.35
1260	48.63	-7.30	44.27	17.09	39.10	22.39	37.63	8.61	44.64
1261	48.11	-5.68	48.26	13.77	36.45	24.53	39.55	10.09	49.08
1262	49.08	-5.31	52.25	12.89	34.16	20.77	37.18	14.51	52.84
1263	50.04	-6.63	52.99	13.92	34.38	18.12	37.78	14.51	52.69
1264	52.32	-6.63	49.74	14.58	36.30	17.38	40.14	12.37	51.51
1265	53.88	-2.80	49.89	11.93	34.38	15.76	41.32	9.42	47.67
1266	53.95	-2.22	52.69	9.94	32.31	11.56	39.84	11.93	46.64
1267	52.77	-5.09	54.98	8.39	31.72	10.90	40.43	14.88	48.26
1268	55.80	-7.81	57.20	10.09	34.23	11.49	40.43	16.05	52.62
1269	58.09	-8.55	60.60	10.31	35.26	12.44	41.54	11.93	53.36
1270	57.64	-9.88	61.85	13.25	38.14	11.41	42.21	10.16	53.28
1271	56.24	-9.58	60.01	12.96	39.10	11.49	42.95	9.79	51.73
1272	58.53	-7.08	58.31	12.67	41.17	13.77	43.24	9.64	51.51
1273	57.13	-6.93	58.60	12.81	44.42	15.83	44.42	6.92	49.44
1274	54.02	-9.58	58.60	14.65	47.75	11.85	43.39	5.89	46.93
1275	52.62	-11.20	58.16	13.40	46.05	8.54	47.01	8.47	44.87
1276	54.91	-11.42	59.12	11.78	44.79	8.47	52.25	13.40	46.34
1277	55.43	-12.38	61.48	7.66	44.79	12.00	55.65	13.40	47.82
1278	55.72	-13.71	63.62	5.37	46.05	10.90	51.51	10.09	49.00
1279	55.65	-12.60	67.39	4.12	46.49	8.39	49.67	7.44	47.89
1280	55.43	-13.26	71.45	5.67	48.11	7.07	50.77	8.91	48.34
1281	55.35	-16.65	74.85	7.36	51.00	9.79	52.40	9.87	48.71
1282	55.57	-18.13	75.88	8.69	55.80	11.34	50.70	11.04	50.48
1283	54.84	-12.90	75.44	8.98	58.16	12.67	51.29	9.42	49.00
1284	55.35	-9.95	73.37	9.20	57.72	13.40	55.20	10.31	48.71
1285	56.68	-13.04	72.78	5.52	55.94	17.01	59.71	12.22	49.37
1286	57.79	-19.01	73.74	2.20	56.68	18.41	58.23	16.79	52.10
1287	57.42	-19.38	73.08	1.69	57.49	16.57	56.39	18.34	51.51
1288	60.37	-16.80	71.60	5.52	57.57	8.98	55.28	17.97	52.99
1289	63.48	-14.89	72.86	6.18	56.31	5.37	57.13	13.84	56.90
1290	63.77	-14.15	76.25	7.07	59.78	5.15	57.72	11.04	61.78
1291	60.82	-13.34	78.54	8.25	61.85	6.85	57.13	8.98	62.30
1292	62.66	-13.49	79.50	10.16	60.52	7.07	57.27	9.50	60.97
1293	66.73	-12.09	81.64	7.51	57.27	7.14	59.86	11.27	57.13
1294	68.94	-10.54	81.42	3.31	60.67	5.08	59.64	13.84	54.76
1295	67.17	-11.28	80.09	1.62	62.89	3.02	57.35	13.70	54.47
1296	65.99	-14.15	80.46	5.00	61.63	1.54	57.42	12.44	55.80

	U	V	W	X	Y	Z	AA	AB	AC	AD
1247	.007410	319.26	135.76	10.95	33.32	19.71	33.29		0.01242	20.40003586
1248	.007420	320.00	139.45	12.74	36.10	22.90	34.50		0.01243	20.25270462
1249	.007430	315.88	139.45	14.88	38.07	24.45	35.02		0.01244	18.41108131
1250	.007440	313.08	140.26	15.78	38.96	24.01	36.08		0.01245	16.0538044
1251	.007450	311.46	146.54	13.65	37.63	21.95	37.26		0.01246	14.21218014
1252	.007460	309.02	154.81	11.95	37.85	20.42	37.70		0.01247	16.49579239
1253	.007470	306.89	160.94	10.50	39.79	18.95	37.33		0.01248	18.55841255
1254	.007480	304.97	166.55	10.06	42.65	16.82	37.26		0.01249	18.92673683
1255	.007490	304.02	175.27	9.52	42.82	15.49	37.53		0.0125	17.15877724
1256	.007500	304.97	184.58	9.84	41.64	16.35	38.29		0.01251	17.52710152
1257	.007510	308.66	188.56	10.50	41.81	17.36	38.98		0.01252	17.67443275
1258	.007520	315.88	190.04	9.82	43.88	16.84	38.74		0.01253	18.26375198
1259	.007530	317.50	190.78	6.87	45.26	15.86	38.49		0.01254	15.61181355
1260	.007540	312.12	194.62	5.15	45.33	16.03	40.46		0.01255	13.84385586
1261	.007550	303.79	198.53	5.96	45.26	16.13	41.69		0.01256	16.20113373
1262	.007560	301.07	201.41	6.01	46.32	16.05	41.39		0.01257	21.87333488
1263	.007570	302.62	203.04	5.23	46.98	15.51	41.62		0.01258	22.02066422
1264	.007580	304.68	203.33	6.80	47.25	14.78	42.65		0.01259	17.37977219
1265	.007590	304.68	200.75	8.69	47.52	12.37	41.12		0.0126	11.3392477
1266	.007600	304.97	199.57	7.12	48.46	11.14	39.60		0.01261	12.07589722
1267	.007610	304.16	197.72	2.50	48.51	11.39	40.14		0.01262	15.24348927
1268	.007620	302.98	194.25	1.49	50.11	12.54	42.43		0.01263	18.77940559
1269	.007630	300.26	185.39	2.82	51.44	11.56	43.39		0.01264	18.70574188
1270	.007640	299.01	179.41	3.51	52.42	11.61	44.55		0.01265	18.70574188
1271	.007650	298.34	175.79	2.47	52.55	11.41	44.59		0.01266	16.20113373
1272	.007660	299.96	171.65	3.09	54.17	12.03	45.31		0.01267	12.0022316
1273	.007670	303.94	168.77	2.75	53.97	11.85	46.10		0.01268	9.12929916
1274	.007680	306.74	169.21	1.10	52.35	10.80	46.02		0.01269	9.93961334
1275	.007690	305.56	170.03	-.69	51.19	10.14	45.97		0.0127	7.50867033
1276	.007700	302.17	166.85	-.91	52.37	11.22	47.79		0.01271	4.7830677
1277	.007710	300.33	162.12	-2.61	52.72	11.02	49.42		0.01272	4.26741314
1278	.007720	304.53	161.98	-3.15	53.33	8.79	48.85		0.01273	7.50867033
1279	.007730	309.54	160.42	-2.41	55.18	6.65	48.02		0.01274	6.62469101
1280	.007740	313.08	157.99	-2.36	57.86	7.21	49.08		0.01275	4.85673285
1281	.007750	310.79	156.07	-5.11	58.65	9.01	50.70		0.01276	3.45709872
1282	.007760	305.12	156.95	-6.95	58.43	10.36	52.32		0.01277	5.00406265
1283	.007770	298.34	156.66	-5.97	57.72	10.36	52.82		0.01278	0.58416605
1284	.007780	294.95	153.41	-3.86	58.28	10.97	53.88		0.01279	-5.60368919
1285	.007790	297.16	150.08	-4.94	59.09	11.58	55.01		0.0128	-9.94992065
1286	.007800	302.47	150.45	-7.62	60.50	12.47	55.67		0.01281	-7.96096706
1287	.007810	304.53	152.74	-9.70	60.37	12.20	55.13		0.01282	-5.01436949
1288	.007820	303.28	156.88	-8.89	61.16	10.82	55.28		0.01283	-6.34033823
1289	.007830	300.85	159.76	-7.57	61.88	8.47	56.78		0.01284	-15.32746124
1290	.007840	304.90	161.53	-7.40	62.12	7.75	59.76		0.01285	-18.42138863
1291	.007850	312.12	160.20	-10.37	61.36	8.02	60.42		0.01286	-10.39191055
1292	.007860	313.15	160.94	-11.15	63.11	8.91	59.59		0.01287	1.91013503
1293	.007870	306.00	161.83	-7.86	65.84	8.64	58.09		0.01288	5.07772732
1294	.007880	305.56	163.45	-3.25	67.12	7.41	58.36		0.01289	3.01510906
1295	.007890	311.97	161.53	-3.15	66.33	6.11	58.23		0.0129	1.61547518
1296	.007900	313.96	156.21	-4.79	66.38	6.33	58.28		0.01291	4.48840809

	AE	AF	AG	AH	AI
1247	15.31715393	8.90830421	21.35767937	29.60815239	22.38898849
1248	20.76836014	6.33003139	20.76836014	25.33558655	25.92490578
1249	19.88438034	2.64678431	19.58972168	24.45160675	21.79966927
1250	17.60076714	2.20479465	18.92673683	26.44055939	15.90647411
1251	13.25453568	4.04641819	13.99118519	28.50317955	14.35951042
1252	10.01327896	3.67809367	8.31898499	25.48291588	16.64312363
1253	9.12929916	0.87882584	6.18270159	24.37794113	15.90647411
1254	12.29689121	-1.69944715	10.97092247	23.93595314	14.13851547
1255	14.87516499	-0.52080804	15.53814888	23.49396324	13.03354073
1256	12.37055683	-0.44714311	17.30610847	19.73705101	13.47553062
1257	6.33003139	-3.39374065	17.37977219	19.73705101	10.45526791
1258	4.48840809	-7.29798269	17.08511353	22.38898849	8.6136446
1259	7.95066023	-5.67735386	13.77019024	24.52527237	10.08694363
1260	9.49762344	-5.3090291	12.8862114	20.76836014	14.50683975
1261	6.10903645	-6.63499832	13.91752052	18.11642265	14.50683975
1262	5.15139246	-6.63499832	14.58050442	17.37977219	12.37055683
1263	6.84568596	-2.80442119	11.92856693	15.75914383	9.42395878
1264	6.18270159	-2.21510172	9.93961334	11.56024265	11.92856693
1265	1.24715054	-5.08803463	8.39264965	10.8972578	14.87516499
1266	0.21584135	-7.81363726	10.08694363	11.48657703	16.0538044
1267	1.7628051	-8.55028629	10.30793858	12.4442215	11.92856693
1268	1.61547518	-9.87625599	13.25453568	11.41291237	10.16060829
1269	-1.69944715	-9.58159542	12.95987606	11.48657703	9.79228401
1270	-2.36243153	-7.07698774	12.66521645	13.77019024	9.64495373
1271	-1.03646266	-6.92965794	12.81254578	15.83280849	6.9193511
1272	0.87882584	-9.58159542	14.65417004	11.85490227	5.88804197
1273	-0.00515347	-11.20222473	13.40186596	8.53997993	8.46631432
1274	-1.25745749	-11.42321968	11.78123665	8.46631432	13.40186596
1275	-2.95175099	-12.38086319	7.65600061	12.0022316	13.40186596
1276	-0.52080804	-13.70683289	5.37238741	10.8972578	10.08694363
1277	1.09982061	-12.60185814	4.12008333	8.39264965	7.43500566
1278	-1.3311224	-13.26484299	5.66704702	7.06668091	8.90830421
1279	-5.3090291	-16.65343094	7.36134052	9.79228401	9.86594868
1280	-7.59264231	-18.12672806	8.68730927	11.3392477	11.04458809
1281	-8.47662163	-12.89651775	8.98196888	12.66521645	9.42395878
1282	-6.63499832	-9.94992065	9.20296383	13.40186596	10.30793858
1283	-2.36243153	-13.04384804	5.51971722	17.01144791	12.22322655
1284	1.7628051	-19.01070786	2.20479465	18.41108131	16.79045296
1285	0.21584135	-19.37903214	1.6891402	16.56945801	18.3374176
1286	-1.92044199	-16.80076027	5.51971722	8.98196888	17.96909142
1287	-2.80442119	-14.88547134	6.18270159	5.37238741	13.84385586
1288	-1.69944715	-14.14882183	7.06668091	5.15139246	11.04458809
1289	-2.43609643	-13.33850765	8.24532032	6.84568596	8.98196888
1290	-1.55211723	-13.48583794	10.16060829	7.06668091	9.49762344
1291	-1.11012757	-12.08620358	7.50867033	7.14034557	11.26558208
1292	-1.11012757	-10.53923988	3.30976892	5.07772732	13.84385586
1293	-3.24641085	-11.2758894	1.61547518	3.01510906	13.69652557
1294	-3.24641085	-14.14882183	5.00406265	1.54181027	12.4442215
1295	-0.44714311	-16.35877037	7.72966528	4.26741314	10.23427296
1296	3.23610401	-16.13777542	10.74992752	5.00406265	8.09799004

	AJ	AK	AL	AM	AN
1247	34.67331314	35.41186142	44.12673187	31.27598953	40.50784683
1248	34.37789154	38.66147232	43.83131409	35.11643982	39.62158585
1249	36.1504097	37.62750626	39.10460281	39.6954422	37.77521515
1250	40.72940826	36.96281052	35.8549881	43.46203995	33.34392548
1251	42.20650482	39.03074646	38.14448929	43.38818359	31.86682701
1252	41.24639511	43.53589249	43.16661835	41.83723068	33.34392548
1253	38.21834564	44.49600601	45.75154114	38.21834564	37.18437576
1254	37.77521515	42.72349167	44.42215347	38.07063675	36.96281052
1255	39.76929474	42.79734421	42.87120056	40.06471634	34.52560043
1256	43.2404747	45.89925003	42.50192642	40.87712097	31.71911812
1257	43.83131409	48.77958679	43.16661835	39.4000206	33.71319962
1258	43.09276581	48.6318779	44.27444077	39.10460281	37.62750626
1259	39.4000206	48.11489487	48.26260376	36.44582748	39.54773331
1260	37.62750626	49.07500839	52.25076675	34.15632629	37.18437576
1261	37.92292404	50.03512192	52.98931503	34.37789154	37.77521515
1262	39.6954422	52.32461929	49.73970032	36.29811859	40.13856888
1263	38.80918503	53.8755722	49.88740921	34.37789154	41.32024765
1264	38.73532867	53.94942856	52.69389343	32.3099556	39.84315109
1265	37.77521515	52.76774979	54.98339462	31.71911812	40.43399048
1266	37.33208466	55.79579926	57.19903946	34.23018265	40.43399048
1267	35.63342667	58.08530045	60.59636307	35.26415253	41.5418129
1268	37.77521515	57.64216995	61.85189819	38.14448929	42.20650482
1269	41.394104	56.23892593	60.00552368	39.10460281	42.94505692
1270	45.67768478	58.52842712	58.30686188	41.17253876	43.2404747
1271	46.19466782	57.12518692	58.60228348	44.42215347	44.42215347
1272	44.42215347	54.0232811	58.60228348	47.74562073	43.38818359
1273	42.79734421	52.62004089	58.15915298	46.04695892	47.00707245
1274	43.09276581	54.90954208	59.11926651	44.79142761	52.25076675
1275	41.24639511	55.42652512	61.48262024	44.79142761	55.64809036
1276	40.65555573	55.7219429	63.62441254	46.04695892	51.51221848
1277	42.50192642	55.64809036	67.39100647	46.49008942	49.66584778
1278	46.71165085	55.42652512	71.45302582	48.11489487	50.7736702
1279	45.75154114	55.35266876	74.85034943	50.99523544	52.39847565
1280	43.83131409	55.57423401	75.88431549	55.79579926	50.69981384
1281	42.87120056	54.83568573	75.441185	58.15915298	51.29065323
1282	46.12081528	55.35266876	73.37325287	57.71602631	55.20495987
1283	47.81947327	56.68205643	72.7824173	55.94350815	59.7101059
1284	49.96126556	57.78987885	73.74252319	56.68205643	58.23300934
1285	50.62595749	57.42060471	73.07783508	57.49446106	56.38663864
1286	51.51221848	60.37479782	71.60073853	57.5683136	55.27881622
1287	49.29657364	63.47670364	72.85626984	56.31278229	57.12518692
1288	46.34237671	63.77212143	76.25359344	59.78396225	57.71602631
1289	44.71757126	60.81792831	78.54309082	61.85189819	57.12518692
1290	47.15478134	62.66429901	79.50320435	60.52251053	57.27289581
1291	49.14886093	66.72631836	81.64499664	57.27289581	59.85781479
1292	50.99523544	68.9419632	81.4234314	60.67021942	59.63624954
1293	51.73378372	67.16944885	80.09404755	62.88586426	57.34675217
1294	52.69389343	65.98777008	80.46331787	61.63033295	57.42060471
1295	52.25076675	65.98777008	82.60511017	58.15915298	63.77212143
1296	51.80763626	69.60665894	83.19594574	58.01144409	67.09558868

	AO	AP	AQ	AR	AS
1247	33.27006912	315.8756104	139.4498596	14.87516499	24.45160675
1248	33.49163437	313.076355	140.2622681	15.78369904	24.00961685
1249	34.304039	311.455719	146.5399323	13.64741516	21.9469986
1250	36.29811859	309.0247803	154.811676	11.95312214	20.42459106
1251	36.74124908	306.8884888	160.9416199	10.50437832	18.95129204
1252	36.59353638	304.9732056	166.554596	10.06238842	16.81500816
1253	37.18437576	304.015564	175.269455	9.5221796	15.48903847
1254	39.84315109	304.9732056	184.5751801	9.84139347	16.34846306
1255	42.35421753	308.6564331	188.5633392	10.50437832	17.35521698
1256	43.60974884	315.8756104	190.0404358	9.81683826	16.83956337
1257	42.35421753	317.4962463	190.7789764	6.87024117	15.8573637
1258	44.6437149	312.1186829	194.6194305	5.15139246	16.02924919
1259	49.07500839	303.7945557	198.5337372	5.96170664	16.12746811
1260	52.84160614	301.0689697	201.4140778	6.01081657	16.0538044
1261	52.69389343	302.6159058	203.0388794	5.22505713	15.51359463
1262	51.51221848	304.6785278	203.3343048	6.7965765	14.77694416
1263	47.67176437	304.6785278	200.7493897	8.68730927	12.37055683
1264	46.63779831	304.9732056	199.5677033	7.11579084	11.14280796
1265	48.26260376	304.1628723	197.721344	2.4994545	11.38835716
1266	52.62004089	302.9842529	194.2501526	1.49270046	12.54244137
1267	53.35858917	300.2586365	185.3875732	2.81866932	11.56024265
1268	53.28473282	299.0063477	179.4053345	3.50620818	11.60935211
1269	51.73378372	298.3433533	175.7864533	2.47489977	11.41291237
1270	51.51221848	299.9639893	171.6505737	3.0887742	12.0267868
1271	49.44428253	303.9418945	168.7702332	2.74500442	11.85490227
1272	46.93321609	306.7411499	169.2133637	1.09982061	10.79903793
1273	44.86528015	305.5625305	170.0257721	-0.692693	10.13605309
1274	46.34237671	302.1739197	166.8500061	-0.91368794	11.21647263
1275	47.81947327	300.3323059	162.1233063	-2.6079812	11.02003288
1276	49.00115204	304.5312195	161.9755859	-3.14819098	8.78553009
1277	47.89332962	309.5404358	160.4246368	-2.41154146	6.64924622
1278	48.33646011	313.076355	157.9874268	-2.36243176	7.21401072
1279	48.70573425	310.7927246	156.0671997	-5.11258984	9.00652409
1280	50.4782486	305.1205139	156.9534607	-6.95421267	10.35704803
1281	49.00115204	298.3433533	156.6580353	-5.97201347	10.35704803
1282	48.70573425	294.954773	153.408432	-3.86028552	10.97092247
1283	49.37042618	297.1647034	150.0849609	-4.94070435	11.58479691
1284	52.10305786	302.4685974	150.4542389	-7.61719751	12.4687767
1285	51.51221848	304.5312195	152.7437286	-9.7043705	12.19867229
1286	52.98931503	303.2789002	156.8796082	-8.89405632	10.82359219
1287	56.90362167	300.8479614	159.7599487	-7.56808758	8.46631527
1288	61.77804184	304.8995361	161.5324554	-7.39620256	7.75422049
1289	62.29502487	312.1186829	160.2030792	-10.36735535	8.02432537
1290	60.96563721	313.1499939	160.9416199	-11.15311432	8.90830421
1291	57.12518692	306.0045166	161.8278809	-7.86274719	8.63819885
1292	54.76182938	305.5625305	163.4526825	-3.24641085	7.41045094
1293	54.46641159	311.9713745	161.5324554	-3.14819098	6.10903645
1294	55.79579926	313.9603272	156.2149048	-4.79337454	6.33003139
1295	56.09121704	309.6877441	152.2267456	-5.06347942	7.41045046
1296	57.49446106	308.6564331	153.1130066	-2.80442119	7.95066023

	AT	AU
1247	38.07063675	35.01796722
1248	38.95689392	36.07655334
1249	37.62750626	37.25823212
1250	37.84906769	37.70136261
1251	39.79391479	37.33208466
1252	42.64963531	37.25823212
1253	42.82196426	37.52903366
1254	41.64028549	38.29219818
1255	41.81261444	38.98151016
1256	43.88055038	38.73532867
1257	45.25917435	38.48914719
1258	45.33302689	40.45860672
1259	45.25917435	41.68952179
1260	46.31776047	41.394104
1261	46.98245239	41.61566544
1262	47.25325394	42.64963531
1263	47.52405548	41.12330246
1264	48.45954895	39.5969696
1265	48.50878525	40.13857269
1266	50.10897446	42.42807007
1267	51.43836212	43.38818359
1268	52.4230957	44.54524231
1269	52.54618454	44.59448242
1270	54.17098999	45.30841064
1271	53.9740448	46.09619522
1272	52.34923935	46.02233887
1273	51.19218063	45.97310257
1274	52.37385941	47.79485703
1275	52.71851349	49.41966248
1276	53.33396912	48.85344315
1277	55.18033981	48.01642227
1278	57.8637352	49.07500839
1279	58.65151978	50.69981384
1280	58.42995453	52.32461929
1281	57.71602249	52.81698608
1282	58.28224564	53.8755722
1283	59.09465027	55.00801468
1284	60.49789047	55.6727066
1285	60.37479782	55.13110733
1286	61.16258621	55.27881622
1287	61.87651443	56.78052902
1288	62.12269592	59.75934219
1289	61.3595314	60.42403793
1290	63.1074295	59.58701324
1291	65.84005737	58.08530045
1292	67.12020874	58.35609818
1293	66.33242798	58.23300934
1294	66.38166046	58.28224564
1295	66.94788361	59.34083176
1296	68.20341492	60.86716461

	A	B	C	D	E	F	G	H	I	J	K
1297								.007910	1.62	52.25	-.45
1298								.007920	4.49	51.81	3.24
1299								.007930	6.70	48.85	.29
1300								.007940	7.66	45.97	-4.72
1301								.007950	6.92	46.49	-8.48
1302								.007960	7.95	50.33	-5.31
1303								.007970	6.62	50.55	-1.33
1304								.007980	4.41	49.67	-1.63
1305								.007990	.95	48.41	-5.82
1306								.008000	2.06	50.04	-6.49
1307								.008010	3.53	50.26	-1.48
1308								.008020	3.83	51.22	2.13
1309								.008030	2.13	51.96	-.59
1310								.008040	3.90	54.54	-4.43
1311								.008050	5.59	54.10	-5.01
1312								.008060	5.59	53.14	-.30
1313								.008070	2.35	51.66	1.17
1314								.008080	1.62	52.10	-.52
1315								.008090	3.83	51.07	-4.50
1316								.008100	9.35	51.96	-3.54
1317								.008110	14.36	52.62	-.74
1318								.008120	16.64	53.58	.07
1319								.008130	14.88	53.28	-2.36
1320								.008140	13.03	53.28	-2.95
1321								.008150	10.16	54.02	-1.92
1322								.008160	8.83	56.68	.44
1323								.008170	9.57	58.75	-1.18
1324								.008180	10.16	58.31	-6.63
1325								.008190	8.61	55.06	-12.90
1326								.008200	10.16	56.39	-13.12
1327								.008210	14.65	58.90	-7.37
1328								.008220	21.21	60.30	-2.66
1329								.008230	22.61	58.60	-4.43
1330								.008240	20.18	59.64	-8.33
1331								.008250	16.72	61.19	-8.55
1332								.008260	17.23	62.74	-6.56
1333								.008270	17.31	62.07	-4.57
1334								.008280	15.98	62.44	-2.66
1335								.008290	11.12	62.30	-1.70
1336								.008300	9.50	63.18	-1.40
1337								.008310	9.42	65.47	-4.57
1338								.008320	11.93	70.27	-8.62
1339								.008330	14.14	72.41	-12.82
1340								.008340	17.09	72.27	-14.89
1341								.008350	17.75	70.42	-16.87
1342								.008360	17.16	68.42	-15.84
1343								.008370	14.29	64.81	-12.16
1344								.008380	11.41	61.26	-9.88
1345								.008390	9.87	59.34	-11.57
1346								.008400	12.22	61.04	-10.61

	L	M	N	O	P	Q	R	S	T
1297	65.99	-16.36	82.61	7.73	58.16	4.27	63.77	10.23	56.09
1298	69.61	-16.14	83.20	10.75	58.01	5.00	67.10	8.10	57.49
1299	71.01	-15.77	81.28	11.63	58.97	4.27	67.76	6.11	58.90
1300	69.46	-15.03	80.32	10.01	59.78	.88	66.73	8.10	58.60
1301	66.87	-10.91	82.68	6.48	59.56	.14	67.69	11.19	56.61
1302	68.65	-7.59	85.49	8.02	60.60	.36	69.31	11.93	57.57
1303	71.45	-7.89	86.45	10.75	60.01	2.20	73.08	8.39	59.93
1304	71.53	-12.53	83.05	10.01	57.57	1.62	74.78	7.95	63.18
1305	71.01	-14.96	80.17	5.67	54.76	2.35	76.25	8.39	63.62
1306	73.52	-17.17	77.95	6.33	55.94	3.09	75.81	7.73	64.29
1307	76.92	-19.45	78.69	10.09	57.13	4.19	76.33	2.57	62.00
1308	78.84	-22.55	79.72	11.93	56.76	3.53	75.15	2.13	61.33
1309	79.28	-23.50	80.91	9.28	57.27	3.83	75.44	4.41	61.26
1310	79.87	-22.84	81.20	7.95	59.86	2.57	77.14	6.40	65.10
1311	77.95	-20.93	82.68	6.70	59.56	1.62	81.94	3.97	67.39
1312	76.48	-19.75	83.57	6.04	57.64	1.54	84.82	4.41	69.24
1313	76.62	-18.79	84.01	4.27	56.83	4.12	86.67	5.15	68.06
1314	78.40	-18.57	84.01	6.04	60.37	5.96	86.81	5.45	67.76
1315	78.54	-19.67	85.63	7.80	62.00	5.52	87.55	4.27	68.06
1316	78.69	-24.09	86.00	9.42	62.96	2.28	87.55	4.93	70.71
1317	79.13	-25.35	86.37	9.13	63.62	.36	88.59	4.78	71.38
1318	81.05	-21.96	87.85	10.09	64.81	-.37	89.47	6.55	71.60
1319	81.50	-15.77	90.29	11.19	63.92	1.10	89.99	7.58	70.86
1320	82.83	-11.79	92.21	13.11	65.54	3.38	86.45	7.58	70.94
1321	83.71	-11.28	93.02	9.72	67.76	8.54	83.71	6.55	70.42
1322	85.19	-13.26	93.31	7.36	68.65	9.57	82.38	9.13	71.75
1323	83.12	-12.68	93.76	8.32	66.87	7.88	82.09	10.31	71.90
1324	82.38	-12.38	93.46	11.78	68.06	4.93	79.43	8.61	71.90
1325	84.16	-14.96	94.94	8.98	68.79	4.56	78.54	5.59	70.64
1326	88.00	-20.26	93.68	5.45	68.13	3.16	77.88	3.38	68.79
1327	88.00	-20.93	89.62	5.00	66.43	2.57	78.32	.66	65.84
1328	85.12	-17.02	86.45	8.32	66.80	3.02	78.69	.44	66.87
1329	83.27	-12.90	89.62	9.28	64.44	5.74	81.64	1.62	68.94
1330	82.53	-17.02	92.87	10.60	62.15	5.59	82.31	3.68	70.64
1331	82.31	-21.22	91.76	11.63	60.82	7.21	83.57	4.71	69.16
1332	82.09	-22.40	88.96	12.30	60.97	7.66	82.68	8.02	68.57
1333	81.79	-19.31	88.44	10.16	59.27	7.51	82.97	9.42	67.17
1334	81.35	-19.31	86.08	7.80	58.45	6.11	84.30	9.72	68.06
1335	80.17	-20.34	85.78	4.78	58.38	7.29	88.81	5.89	68.06
1336	81.05	-20.48	89.84	4.71	61.70	4.78	90.58	2.79	69.53
1337	79.58	-17.61	95.97	4.71	63.92	1.17	89.47	1.69	71.08
1338	77.51	-15.84	95.83	4.64	63.92	-.30	86.96	5.15	73.96
1339	76.99	-15.77	92.50	2.35	62.74	1.39	86.08	8.17	73.96
1340	80.24	-17.68	90.80	3.53	66.06	1.54	85.49	8.98	72.93
1341	80.91	-18.35	92.58	5.00	70.64	2.35	86.89	7.66	72.34
1342	79.72	-18.94	92.13	4.19	74.85	1.91	86.74	8.10	72.71
1343	79.58	-17.39	90.51	-.45	75.29	2.35	87.04	9.13	71.31
1344	81.64	-16.14	88.81	-2.22	76.18	.73	86.22	11.34	70.71
1345	82.24	-16.73	88.00	-2.22	75.66	.29	86.96	11.19	71.53
1346	82.53	-18.42	86.89	-.15	75.88	-1.11	85.63	10.09	73.96

	U	V	W	X	Y	Z	AA	AB	AC	AD
1297	.007910	309.69	152.23	-5.06	66.95	7.41	59.34		0.01292	6.69835615
1298	.007920	308.66	153.11	-2.80	68.20	7.95	60.87		0.01293	7.65600061
1299	.007930	312.12	154.22	-2.93	67.05	7.34	61.88		0.01294	6.9193511
1300	.007940	314.33	155.33	-4.03	65.25	6.33	61.70		0.01295	7.95066023
1301	.007950	308.51	153.63	-4.15	65.35	5.94	61.29		0.01296	6.62469101
1302	.007960	307.70	153.48	-1.65	68.15	6.77	62.49		0.01297	4.41474295
1303	.007970	314.70	153.33	-.86	69.48	7.12	64.34		0.01298	0.95249075
1304	.007980	321.62	154.44	-3.25	68.08	6.53	65.18		0.01299	2.05746484
1305	.007990	320.52	155.62	-6.61	66.53	5.47	64.88		0.013	3.53076363
1306	.008000	316.76	156.29	-7.20	67.17	5.72	65.35		0.01301	3.82542348
1307	.008010	317.20	153.26	-5.80	68.62	5.62	65.15		0.01302	2.13112974
1308	.008020	320.59	149.72	-5.53	69.93	5.86	64.41		0.01303	3.89908838
1309	.008030	321.62	148.39	-7.32	70.71	5.84	64.66		0.01304	5.59338188
1310	.008040	323.17	150.82	-7.79	71.87	5.64	67.37		0.01305	5.59338188
1311	.008050	321.62	152.37	-6.78	71.58	4.10	69.63		0.01306	2.35212469
1312	.008060	320.59	158.87	-4.82	71.06	4.00	70.57		0.01307	1.61547518
1313	.008070	319.49	164.93	-5.09	70.76	4.51	70.52		0.01308	3.82542348
1314	.008080	320.07	163.45	-5.82	71.50	5.81	71.65		0.01309	9.35029411
1315	.008090	320.07	153.85	-6.78	71.75	5.86	72.54		0.0131	14.35951042
1316	.008100	321.03	147.57	-6.09	72.22	5.54	73.74		0.01311	16.64312363
1317	.008110	321.99	146.76	-3.91	72.71	4.76	74.53		0.01312	14.87516499
1318	.008120	323.39	150.45	-1.75	74.16	5.42	75.29		0.01313	13.03354073
1319	.008130	324.64	153.85	-1.09	75.02	6.62	74.92		0.01314	10.16060829
1320	.008140	326.78	155.33	-.57	76.11	8.02	74.31		0.01315	8.83463955
1321	.008150	324.42	152.82	-1.01	76.92	8.27	73.96		0.01316	9.57128906
1322	.008160	320.74	151.93	-1.33	78.40	8.69	74.26		0.01317	10.16060829
1323	.008170	317.79	151.93	-1.43	78.54	8.83	73.62		0.01318	8.6136446
1324	.008180	318.09	151.93	-2.95	78.05	8.44	73.13		0.01319	10.16060829
1325	.008190	315.65	150.08	-6.41	78.05	6.38	72.66		0.0132	14.65417004
1326	.008200	312.63	149.12	-7.74	79.36	4.00	71.60		0.01321	21.21035004
1327	.008210	309.39	148.09	-4.55	78.84	2.75	70.20		0.01322	22.60998344
1328	.008220	306.30	148.46	.51	77.29	3.92	70.79		0.01323	20.17904091
1329	.008230	304.46	147.20	1.76	77.16	5.54	71.67		0.01324	16.71678734
1330	.008240	308.14	147.94	-1.72	78.35	6.62	71.70		0.01325	17.23244286
1331	.008250	309.76	147.57	-4.35	78.42	7.85	71.18		0.01326	17.30610847
1332	.008260	310.06	148.09	-3.91	77.93	9.33	70.74		0.01327	15.98013878
1333	.008270	307.26	144.84	-2.19	77.44	9.03	69.80		0.01328	11.11825275
1334	.008280	307.99	143.07	-1.99	76.62	7.88	70.27		0.01329	9.49762344
1335	.008290	309.98	143.36	-3.64	76.08	5.99	71.75		0.0133	9.42395878
1336	.008300	311.60	145.58	-4.13	78.03	4.10	73.94		0.01331	11.92856693
1337	.008310	309.25	146.76	-4.25	80.34	2.52	74.83		0.01332	14.13851547
1338	.008320	306.00	145.80	-4.18	81.20	3.16	74.95		0.01333	17.08511353
1339	.008330	303.94	142.85	-4.82	80.64	3.97	74.26		0.01334	17.74809647
1340	.008340	304.38	142.18	-5.16	81.10	4.68	74.83		0.01335	17.15877724
1341	.008350	302.47	142.03	-5.82	81.30	5.00	76.62		0.01336	14.2858448
1342	.008360	303.79	141.59	-5.87	80.09	4.73	78.10		0.01337	11.41291237
1343	.008370	309.69	140.34	-5.09	78.30	3.68	77.88		0.01338	9.86594868
1344	.008380	316.46	140.85	-4.87	77.24	3.29	77.71		0.01339	12.22322655
1345	.008390	315.14	142.03	-6.14	76.52	3.09	78.05		0.0134	13.40186596
1346	.008400	309.25	142.77	-5.60	76.82	2.94	78.49		0.01341	12.81254578

	AE	AF	AG	AH	AI
1297	0.28950629	-15.76945114	11.63390732	4.26741314	6.10903645
1298	-4.71970987	-15.03280163	10.01327896	0.87882584	8.09799004
1299	-8.47662163	-10.90756512	6.4773612	0.1421764	11.19191742
1300	-5.3090291	-7.59264231	8.02432537	0.36317122	11.92856693
1301	-1.3311224	-7.88730192	10.74992752	2.20479465	8.39264965
1302	-1.62578213	-12.52819347	10.01327896	1.61547518	7.95066023
1303	-5.82468367	-14.95913601	5.66704702	2.35212469	8.39264965
1304	-6.48766804	-17.16908455	6.33003139	3.08877397	7.72966528
1305	-1.47845232	-19.45269775	10.08694363	4.193748	2.5731194
1306	2.13112974	-22.54662514	11.92856693	3.53076363	2.13112974
1307	-0.594473	-23.50427055	9.27662945	3.82542348	4.41474295
1308	-4.42504978	-22.84128571	7.95066023	2.5731194	6.40369654
1309	-5.01436949	-20.92599678	6.69835615	1.61547518	3.97275329
1310	-0.29981324	-19.74735832	6.03537178	1.54181027	4.41474295
1311	1.17348564	-18.78971291	4.26741314	4.12008333	5.15139246
1312	-0.52080804	-18.56871796	6.03537178	5.96170664	5.44605207
1313	-4.49871492	-19.6736927	7.80333042	5.51971722	4.26741314
1314	-3.5410707	-24.09358978	9.42395878	2.27845979	4.93039751
1315	-0.74180287	-25.34589386	9.12929916	0.36317122	4.7830677
1316	0.06851147	-21.95730591	10.08694363	-0.37347817	6.55102634
1317	-2.36243153	-15.76945114	11.19191742	1.09982061	7.58233547
1318	-2.95175099	-11.79154396	13.10720634	3.38343382	7.58233547
1319	-1.92044199	-11.2758894	9.71861839	8.53997993	6.55102634
1320	0.43683618	-13.26484299	7.36134052	9.57128906	9.12929916
1321	-1.18379247	-12.67552376	8.31898499	7.87699509	10.30793858
1322	-6.63499832	-12.38086319	11.78123665	4.93039751	8.6136446
1323	-12.89651775	-14.95913601	8.98196888	4.56207275	5.59338188
1324	-13.1175127	-20.26301193	5.44605207	3.16243887	3.38343382
1325	-7.37164736	-20.92599678	5.00406265	2.5731194	0.65783101
1326	-2.65709138	-17.02175522	8.31898499	3.01510906	0.43683618
1327	-4.42504978	-12.89651775	9.27662945	5.74071169	1.61547518
1328	-8.32929134	-17.02175522	10.60259819	5.59338188	3.67809367
1329	-8.55028629	-21.22065735	11.63390732	7.21401072	4.70940256
1330	-6.56133318	-22.39929581	12.29689121	7.65600061	8.02432537
1331	-4.57237959	-19.30536842	10.16060829	7.50867033	9.42395878
1332	-2.65709138	-19.30536842	7.80333042	6.10903645	9.71861839
1333	-1.69944715	-20.33667755	4.7830677	7.28767586	5.88804197
1334	-1.4047873	-20.48400688	4.70940256	4.7830677	2.79411435
1335	-4.57237959	-17.61107445	4.70940256	1.17348564	1.6891402
1336	-8.62395191	-15.84311581	4.6357379	-0.29981324	5.15139246
1337	-12.82285309	-15.76945114	2.35212469	1.39448035	8.1716547
1338	-14.88547134	-17.68474007	3.53076363	1.54181027	8.98196888
1339	-16.87442589	-18.34772301	5.00406265	2.35212469	7.65600061
1340	-15.84311581	-18.93704414	4.193748	1.91013503	8.09799004
1341	-12.15986919	-17.3900795	-0.44714311	2.35212469	9.12929916
1342	-9.87625599	-16.13777542	-2.21510172	0.73149592	11.3392477
1343	-11.57054901	-16.72709465	-2.21510172	0.28950629	11.19191742
1344	-10.61290455	-18.42138863	-0.15248336	-1.11012757	10.08694363
1345	-8.10829735	-17.3900795	2.27845979	-0.74180287	8.68730927
1346	-8.55028629	-15.10646629	6.18270159	0.28950629	9.64495373

	AJ	AK	AL	AM	AN
1297	48.85344315	71.00989532	81.27571869	58.97155762	67.76028442
1298	45.97310257	69.45894623	80.31560516	59.78396225	66.72631836
1299	46.49008942	66.87402344	82.67896271	59.562397	67.68643188
1300	50.3305397	68.64654541	85.48545074	60.59636307	69.31123352
1301	50.55210495	71.45302582	86.44556427	60.00552368	73.07783508
1302	49.66584778	71.52687836	83.04824066	57.5683136	74.77649689
1303	48.41031265	71.00989532	80.16790009	54.76182938	76.25359344
1304	50.03512192	73.52096558	77.95225525	55.94350815	75.81046295
1305	50.25668335	76.91828918	78.69080353	57.12518692	76.32744598
1306	51.21679688	78.83850861	79.72476959	56.75591278	75.14576721
1307	51.95534515	79.2816391	80.90644836	57.27289581	75.441185
1308	54.54026794	79.8724823	81.20186615	59.85781479	77.1398468
1309	54.09713745	77.95225525	82.67896271	59.562397	81.94041443
1310	53.13702393	76.47515869	83.56522369	57.64216995	84.820755
1311	51.65992737	76.62286377	84.00835419	56.82976532	86.66712189
1312	52.10305786	78.39538574	84.00835419	60.37479782	86.81483459
1313	51.06908798	78.54309082	85.63315582	61.99960709	87.55338287
1314	51.95534515	78.69080353	86.00243378	62.95972061	87.55338287
1315	52.62004089	79.13393402	86.3717041	63.62441254	88.58734894
1316	53.58015442	81.05415344	87.84880066	64.80609131	89.47360992
1317	53.28473282	81.49728394	90.28601074	63.91983032	89.99059296
1318	53.28473282	82.82667542	92.20623779	65.54463959	86.44556427
1319	54.0232811	83.71292877	93.01864624	67.76028442	83.71292877
1320	56.68205643	85.19002533	93.31406403	68.64654541	82.38354492
1321	58.74999237	83.1220932	93.75719452	66.87402344	82.08812714
1322	58.30686188	82.38354492	93.4617691	68.05570221	79.42935181
1323	55.05725098	84.15605927	94.93886566	68.79425049	78.54309082
1324	56.38663864	87.99651337	93.68333435	68.12955475	77.87839508
1325	58.89770126	87.99651337	89.62132263	66.43090057	78.32152557
1326	60.30094528	85.11617279	86.44556427	66.8001709	78.69080353
1327	58.60228348	83.26980591	89.62132263	64.43681335	81.64499664
1328	59.63624954	82.53125763	92.87093353	62.14731598	82.30969238
1329	61.18720245	82.30969238	91.7631073	60.81792831	83.56522369
1330	62.73815536	82.08812714	88.95662689	60.96563721	82.67896271
1331	62.07345963	81.79270172	88.43964386	59.2669754	82.97438049
1332	62.44273376	81.34957886	86.07628632	58.45457458	84.30377197
1333	62.29502487	80.16790009	85.78086853	58.38071823	88.80891418
1334	63.18128204	81.05415344	89.84288025	61.70418549	90.58143616
1335	65.47078705	79.57705688	95.97283936	63.91983032	89.47360992
1336	70.27134705	77.50912476	95.82512665	63.91983032	86.9625473
1337	72.41313934	76.99214172	92.50165558	62.73815536	86.07628632
1338	72.26542664	80.24175262	90.80299377	66.06162262	85.48545074
1339	70.41905975	80.90644836	92.57551575	70.640625	86.88868713
1340	68.42498016	79.72476959	92.13238525	74.85034943	86.74098206
1341	64.80609131	79.57705688	90.50757599	75.29347992	87.03639984
1342	61.26105881	81.64499664	88.80891418	76.17973328	86.22399902
1343	59.34083176	82.23583221	87.99651337	75.66275024	86.9625473
1344	61.03949356	82.53125763	86.88868713	75.88431549	85.63315582
1345	62.88586426	82.82667542	88.43964386	75.36733246	85.19002533
1346	63.18128204	84.15605927	91.7631073	76.17973328	85.33773804

	AO	AP	AQ	AR	AS
1297	58.89770126	312.1186829	154.2208252	-2.92719626	7.33678579
1298	58.60228348	314.3286438	155.3286591	-4.0321703	6.33003139
1299	56.60820389	308.5091248	153.6299896	-4.15494537	5.93715191
1300	57.5683136	307.6987915	153.4822846	-1.6503371	6.77202129
1301	59.93167114	314.6969605	153.3345795	-0.86457777	7.11579037
1302	63.18128204	321.62146	154.4423981	-3.24641085	6.52647161
1303	63.62441254	320.51651	155.6240692	-6.61044312	5.47060728
1304	64.28910828	316.7595825	156.2887726	-7.19976234	5.71615696
1305	61.99960709	317.2015686	153.2607117	-5.80012894	5.61793709
1306	61.33491135	320.5901794	149.715683	-5.53002405	5.86348677
1307	61.26105881	321.62146	148.3862915	-7.3225379	5.83893204
1308	65.10150909	323.1684265	150.8235016	-7.78908253	5.64249229
1309	67.39100647	321.62146	152.3744659	-6.78232813	4.09552813
1310	69.23738098	320.5901794	158.8736877	-4.81792974	3.99730825
1311	68.05570221	319.485199	164.9297791	-5.08803415	4.51296282
1312	67.76028442	320.0745239	163.4526825	-5.82468367	5.81437683
1313	68.05570221	320.0745239	153.8515625	-6.78232813	5.86348677
1314	70.71447754	321.0321655	147.5738983	-6.09478855	5.54427195
1315	71.37917328	321.9898071	146.7614899	-3.90939546	4.7585125
1316	71.60073853	323.3894348	150.4542389	-1.74855697	5.42149734
1317	70.86219025	324.6417236	153.8515625	-1.0855726	6.62469101
1318	70.93604279	326.7780151	155.3286591	-0.5699181	8.02432537
1319	70.41905975	324.4207459	152.8175812	-1.0119077	8.26987457
1320	71.7484436	320.7374878	151.9313355	-1.3311224	8.68730927
1321	71.89615631	317.7908936	151.9313355	-1.42934239	8.83463955
1322	71.89615631	318.0855713	151.9313355	-2.95175099	8.44175911
1323	70.640625	315.6546021	150.0849609	-6.4140029	6.37914133
1324	68.79425049	312.6343384	149.1248474	-7.73997211	3.99730825
1325	65.84005737	309.3930969	148.0908814	-4.54782486	2.74500442
1326	66.87402344	306.2991638	148.4601593	0.51050115	3.92364335
1327	68.9419632	304.4575501	147.2046204	1.76280534	5.54427195
1328	70.640625	308.1407776	147.943161	-1.72400188	6.62469101
1329	69.16352844	309.7614136	147.5738983	-4.35138559	7.85244036
1330	68.57268524	310.0560913	148.0908814	-3.90939546	9.32573891
1331	67.16944885	307.2568054	144.8412628	-2.19054651	9.03107929
1332	68.05570221	307.9934692	143.0687561	-1.99410701	7.87699509
1333	68.05570221	309.9824219	143.3641663	-3.63929057	5.98626184
1334	69.53279877	311.6030579	145.5798187	-4.13039017	4.09552813
1335	71.08375549	309.2457581	146.7614899	-4.25316525	2.52400947
1336	73.96408844	306.0045166	145.8013763	-4.1795001	3.16243911
1337	73.96408844	303.9418945	142.8471832	-4.81792974	3.97275329
1338	72.93012238	304.3838806	142.1824951	-5.1616993	4.68484783
1339	72.3392868	302.4685974	142.0347748	-5.82468414	5.00406265
1340	72.70855713	303.7945557	141.5916443	-5.87379408	4.73395777
1341	71.30532074	309.6877441	140.3361206	-5.08803463	3.67809367
1342	70.71447754	316.4649353	140.8531036	-4.86703968	3.28521395
1343	71.52687836	315.1389465	142.0347748	-6.14389849	3.08877397
1344	73.96408844	309.2457581	142.7733307	-5.60368872	2.94144416
1345	73.44710541	309.3930969	143.7334442	-4.0321703	3.40798879
1346	71.45302582	317.1278992	144.5458527	-3.6147356	5.37238741

	AT	AU
1297	67.0463562	61.87651443
1298	65.2492218	61.7041893
1299	65.3476944	61.28567886
1300	68.1541748	62.49197006
1301	69.48356628	64.33834076
1302	68.08032227	65.17536163
1303	66.52937317	64.87994385
1304	67.16944885	65.3476944
1305	68.62192535	65.15074921
1306	69.92668915	64.41220093
1307	70.71447754	64.6583786
1308	71.87153625	67.36639404
1309	71.57611847	69.63127136
1310	71.05913544	70.56677246
1311	70.76371765	70.51753235
1312	71.50226593	71.64997101
1313	71.7484436	72.53623199
1314	72.21619415	73.74252319
1315	72.70855713	74.53031158
1316	74.16103363	75.29347992
1317	75.02267456	74.92420197
1318	76.10588074	74.30874634
1319	76.91828918	73.96408844
1320	78.39538574	74.25951385
1321	78.54309082	73.61943817
1322	78.05072784	73.12706757
1323	78.05072784	72.65932465
1324	79.35549927	71.6007309
1325	78.83851624	70.19749451
1326	77.28755951	70.78833008
1327	77.16447449	71.67459106
1328	78.34614563	71.69921112
1329	78.41999817	71.18222809
1330	77.92763519	70.7390976
1331	77.43527222	69.80360413
1332	76.62286377	70.27134705
1333	76.08126831	71.7484436
1334	78.02610779	73.93947601
1335	80.34022522	74.82572937
1336	81.20186615	74.94882202
1337	80.63564301	74.25950623
1338	81.10339355	74.82572937
1339	81.30033875	76.62286377
1340	80.09404755	78.09996033
1341	78.29690552	77.87840271
1342	77.23832703	77.70606995
1343	76.52439117	78.05072784
1344	76.81980896	78.49385071
1345	78.05072784	78.00148773
1346	79.70014954	77.65682983

	A	B	C	D	E	F	G	H	I	J	K
1347								.008410	13.40	62.89	-8.11
1348								.008420	12.81	63.18	-8.55
1349								.008430	12.00	60.67	-12.23
1350								.008440	14.36	61.26	-10.76
1351								.008450	15.46	64.22	-6.49
1352								.008460	14.95	66.14	-5.16
1353								.008470	12.74	64.58	-7.59
1354								.008480	14.14	66.58	-8.18
1355								.008490	14.65	69.68	-9.29
1356								.008500	15.39	71.23	-9.95
1357								.008510	15.46	69.39	-7.59
1358								.008520	15.32	68.79	-2.58
1359								.008530	12.37	67.61	-.52
1360								.008540	10.97	65.84	-.59
1361								.008550	10.38	62.00	-2.95
1362								.008560	12.22	62.44	-3.54
1363								.008570	13.62	65.99	-.15
1364								.008580	14.51	69.16	5.37
1365								.008590	13.55	67.46	4.05
1366								.008600	14.06	65.40	-1.92
1367								.008610	14.95	64.66	-4.72
1368								.008620	13.40	65.84	.29
1369								.008630	9.87	65.32	3.46
1370								.008640	10.31	65.25	1.76
1371								.008650	14.14	65.32	-.74
1372								.008660	16.94	65.40	.88
1373								.008670	13.62	63.03	1.76
1374								.008680	9.42	63.18	.95
1375								.008690	7.51	65.62	-.01
1376								.008700	10.38	68.35	1.62
1377								.008710	13.03	67.17	2.13
1378								.008720	14.80	66.28	2.28
1379								.008730	13.77	66.80	3.09
1380								.008740	11.19	68.35	6.77
1381								.008750	8.47	66.58	7.95
1382								.008760	10.01	65.54	6.77
1383								.008770	11.78	65.25	4.19
1384								.008780	11.71	66.36	3.97
1385								.008790	8.17	67.46	5.74
1386								.008800	5.00	68.42	7.51
1387								.008810	5.96	67.61	7.36
1388								.008820	11.27	67.39	7.14
1389								.008830	14.80	67.46	6.04
1390								.008840	15.39	66.95	4.71
1391								.008850	14.29	62.07	2.50
1392								.008860	15.02	59.93	3.09
1393								.008870	14.21	62.22	3.53
1394								.008880	14.36	66.36	3.16
1395								.008890	14.29	65.25	2.20
1396								.008900	15.69	63.18	2.94

	L	M	N	O	P	Q	R	S	T
1347	82.83	-17.39	88.44	2.28	75.37	-.74	85.19	8.69	73.45
1348	84.16	-15.11	91.76	6.18	76.18	.29	85.34	9.64	71.45
1349	83.42	-13.85	95.23	6.18	76.03	2.72	86.81	13.25	68.20
1350	83.05	-15.99	96.86	4.41	75.29	3.53	86.81	18.71	68.94
1351	83.64	-17.76	97.15	3.09	74.55	5.15	86.96	17.16	70.12
1352	84.45	-19.08	96.56	6.18	76.18	6.04	85.63	9.72	71.31
1353	82.38	-16.95	96.56	11.49	77.95	6.40	83.86	2.94	71.75
1354	81.13	-15.77	94.87	16.57	78.40	4.12	80.76	5.08	73.00
1355	83.12	-15.33	92.35	18.12	76.77	2.57	80.39	8.39	71.60
1356	86.08	-15.47	90.80	17.67	77.36	.14	79.95	10.46	72.19
1357	85.41	-14.96	92.72	16.20	77.88	.29	79.28	10.75	73.96
1358	83.93	-15.77	91.98	17.53	79.06	2.06	77.58	13.11	75.22
1359	83.49	-14.08	91.98	18.85	79.36	5.15	78.10	13.40	71.75
1360	86.15	-12.23	92.87	20.40	81.13	3.24	78.17	14.73	69.24
1361	86.67	-11.35	94.57	18.93	81.57	.07	79.65	15.46	67.91
1362	86.37	-12.68	92.72	16.79	81.20	-2.29	79.28	15.91	67.91
1363	85.49	-11.20	91.76	12.81	77.88	-.30	79.28	13.55	66.73
1364	87.11	-8.48	92.35	12.52	76.92	3.09	79.87	12.30	69.16
1365	88.96	-7.00	94.20	14.73	77.51	6.70	82.61	11.19	71.60
1366	90.51	-9.95	93.17	19.22	80.39	6.26	82.53	11.34	71.60
1367	90.36	-11.57	92.28	19.15	79.95	4.86	84.01	9.94	70.12
1368	89.18	-11.42	91.17	17.09	78.54	.44	85.41	9.50	71.16
1369	87.55	-9.73	90.88	15.61	76.18	-2.07	86.37	10.53	71.82
1370	88.44	-11.05	91.91	16.50	74.33	-1.04	84.97	14.43	71.90
1371	90.73	-12.53	94.50	12.08	71.53	4.27	84.45	17.01	67.83
1372	93.61	-12.97	94.50	4.56	71.75	7.29	83.57	17.23	64.29
1373	92.13	-10.91	92.43	2.57	72.78	6.33	82.38	13.92	63.48
1374	89.62	-8.26	90.66	9.79	74.11	5.59	80.46	11.12	64.66
1375	87.26	-6.34	89.99	15.54	74.33	8.61	80.54	9.42	62.30
1376	84.01	-8.26	87.26	14.36	74.55	10.68	80.17	14.21	60.08
1377	81.05	-9.88	87.63	11.93	74.92	10.60	80.91	19.15	58.90
1378	82.53	-9.80	90.29	14.65	75.15	8.69	80.24	21.43	59.86
1379	86.52	-7.52	91.69	17.09	73.45	10.31	79.72	17.09	60.23
1380	89.18	-5.97	91.54	17.23	73.00	10.97	77.80	13.84	62.00
1381	86.96	-5.46	94.13	14.73	72.63	11.71	77.36	12.00	61.26
1382	82.90	-7.67	94.20	13.25	73.52	12.22	77.66	14.43	59.86
1383	78.84	-8.11	91.25	10.09	72.12	15.02	81.20	17.09	58.90
1384	78.62	-7.00	88.29	10.38	72.27	16.27	83.20	19.00	60.52
1385	80.32	-5.75	89.77	11.04	71.31	17.23	83.57	18.12	59.71
1386	80.02	-8.84	89.47	11.63	70.94	15.61	81.72	19.81	58.45
1387	77.66	-10.69	87.26	11.12	68.79	16.35	82.24	25.19	56.53
1388	77.80	-9.43	84.38	14.29	69.09	16.72	82.38	29.24	54.61
1389	78.91	-4.13	84.30	16.35	70.49	16.57	81.13	25.85	53.73
1390	76.18	-1.85	83.27	16.27	72.56	16.20	79.21	21.73	56.83
1391	69.90	-1.92	83.27	13.55	71.90	19.44	80.17	20.47	57.72
1392	68.42	-3.39	84.08	12.67	70.12	22.54	79.87	22.98	57.05
1393	70.05	-3.98	85.71	12.89	67.98	22.68	76.18	22.98	57.42
1394	70.86	-6.49	83.42	14.14	68.20	18.93	72.86	22.76	60.45
1395	67.69	-8.48	80.91	13.40	67.69	17.67	73.89	21.51	58.01
1396	66.43	-8.33	80.68	12.30	68.28	17.38	76.48	22.39	54.10

	U	V	W	X	Y	Z	AA	AB	AC	AD
1347	.008410	309.39	143.73	-4.03	78.05	3.41	78.00		0.01342	12.0022316
1348	.008420	317.13	144.55	-3.61	79.70	5.37	77.66		0.01343	14.35951042
1349	.008430	320.30	143.36	-4.70	79.77	7.39	77.02		0.01344	15.46448421
1350	.008440	316.76	142.18	-4.13	80.39	8.88	77.02		0.01345	14.94882965
1351	.008450	315.73	140.41	-2.93	81.67	8.47	77.21		0.01346	12.73888111
1352	.008460	321.55	142.03	-3.10	82.38	7.31	77.71		0.01347	14.13851547
1353	.008470	317.79	142.92	-3.93	81.18	6.94	77.85		0.01348	14.65417004
1354	.008480	306.15	142.40	-3.27	80.86	8.59	77.39		0.01349	15.39081955
1355	.008490	300.33	137.01	-3.32	81.72	9.69	76.25		0.0135	15.46448421
1356	.008500	307.26	132.95	-3.34	82.70	9.42	76.50		0.01351	15.31715393
1357	.008510	312.19	135.02	-2.36	82.51	9.08	77.04		0.01352	12.37055683
1358	.008520	308.14	139.08	-1.01	81.57	10.90	77.29		0.01353	10.97092247
1359	.008530	301.66	137.68	-.74	81.03	12.47	76.40		0.01354	10.38160324
1360	.008540	303.35	136.27	-.62	81.62	12.79	76.18		0.01355	12.22322655
1361	.008550	308.36	137.38	-1.31	81.08	11.49	76.38		0.01356	13.62286091
1362	.008560	311.31	138.56	-1.33	80.51	10.14	76.13		0.01357	14.50683975
1363	.008570	309.61	133.25	.76	81.08	8.69	74.63		0.01358	13.54919529
1364	.008580	309.84	128.96	3.80	82.88	9.30	75.32		0.01359	14.06484985
1365	.008590	309.69	128.15	3.53	83.54	10.87	77.24		0.0136	14.94882965
1366	.008600	309.32	130.81	.73	83.02	12.27	78.17		0.01361	13.40186596
1367	.008610	307.11	131.03	-.45	82.43	11.31	78.03		0.01362	9.86594868
1368	.008620	306.00	130.44	.76	82.06	9.01	78.37		0.01363	10.30793858
1369	.008630	305.86	130.96	1.20	81.25	8.02	78.12		0.01364	14.13851547
1370	.008640	307.40	132.29	.34	81.87	9.96	77.07		0.01365	16.93778229
1371	.008650	309.39	134.35	.29	83.52	11.12	74.60		0.01366	13.62286091
1372	.008660	312.86	141.59	1.62	84.50	9.69	73.20		0.01367	9.42395878
1373	.008670	313.52	142.33	1.49	82.53	7.61	72.88		0.01368	7.50867033
1374	.008680	314.77	135.09	.71	81.15	8.83	73.08		0.01369	10.38160324
1375	.008690	312.19	125.20	.39	80.96	11.19	72.39		0.0137	13.03354073
1376	.008700	306.96	121.36	1.25	79.87	13.08	71.60		0.01371	14.80149937
1377	.008710	301.14	121.28	1.76	78.62	13.89	71.58		0.01372	13.77019024
1378	.008720	302.62	118.11	2.43	79.70	14.92	71.75		0.01373	11.19191742
1379	.008730	311.09	113.08	3.11	81.67	14.83	71.13		0.01374	8.46631432
1380	.008740	315.73	114.56	4.00	83.02	14.02	70.94		0.01375	10.01327896
1381	.008750	311.01	120.62	3.65	82.56	12.81	70.42		0.01376	11.78123665
1382	.008760	306.45	123.87	3.04	80.88	13.30	70.35		0.01377	11.70757198
1383	.008770	306.00	119.58	2.62	78.44	14.06	70.74		0.01378	8.1716547
1384	.008780	308.80	118.33	2.89	77.76	15.22	71.99		0.01379	5.00406265
1385	.008790	307.40	118.55	2.72	79.18	15.46	71.53		0.0138	5.96170664
1386	.008800	306.30	118.11	1.22	79.31	15.69	70.37		0.01381	11.26558208
1387	.008810	307.33	115.15	.88	77.51	17.55	69.19		0.01382	14.80149937
1388	.008820	309.54	114.19	2.99	76.52	20.08	68.70		0.01383	15.39081955
1389	.008830	309.17	113.90	5.57	76.89	19.59	68.45		0.01384	14.2858448
1390	.008840	308.73	113.45	6.08	75.47	18.07	69.53		0.01385	15.02249432
1391	.008850	311.75	112.71	4.95	71.75	17.82	69.93		0.01386	14.21218014
1392	.008860	314.77	113.45	4.91	70.81	19.39	69.02		0.01387	14.35951042
1393	.008870	310.50	112.64	4.59	72.66	19.52	67.19		0.01388	14.2858448
1394	.008880	307.63	112.49	3.68	73.55	18.61	67.17		0.01389	15.68547916
1395	.008890	309.25	109.54	2.67	71.28	17.53	66.53		0.0139	15.90647411
1396	.008900	312.71	105.85	3.43	70.10	17.36	66.28		0.01391	16.79045296

	AE	AF	AG	AH	AI
1347	-12.23353386	-13.85416222	6.18270159	2.72044945	13.25453568
1348	-10.76023483	-15.99044609	4.41474295	3.53076363	18.70574188
1349	-6.48766804	-17.75840378	3.08877397	5.15139246	17.15877724
1350	-5.1616993	-19.08437347	6.18270159	6.03537178	9.71861839
1351	-7.59264231	-16.9480896	11.48657703	6.40369654	2.94144416
1352	-8.18196201	-15.76945114	16.56945801	4.12008333	5.07772732
1353	-9.28693581	-15.32746124	18.11642265	2.5731194	8.39264965
1354	-9.94992065	-15.47479153	17.67443275	0.1421764	10.45526791
1355	-7.59264231	-14.95913601	16.20113373	0.28950629	10.74992752
1356	-2.58342648	-15.76945114	17.52710152	2.05746484	13.10720634
1357	-0.52080804	-14.07515717	18.85307121	5.15139246	13.40186596
1358	-0.594473	-12.23353386	20.40003586	3.23610401	14.7278347
1359	-2.95175099	-11.34955406	18.92673683	0.06851147	15.46448421
1360	-3.5410707	-12.67552376	16.79045296	-2.28876662	15.90647411
1361	-0.15248336	-11.20222473	12.81254578	-0.29981324	13.54919529
1362	5.37238741	-8.47662163	12.51788616	3.08877397	12.29689121
1363	4.04641819	-7.00332308	14.7278347	6.69835615	11.19191742
1364	-1.92044199	-9.94992065	19.22139549	6.25636673	11.3392477
1365	-4.71970987	-11.57054901	19.14773178	4.85673285	9.93961334
1366	0.28950629	-11.42321968	17.08511353	0.43683618	9.49762344
1367	3.45709872	-9.7289257	15.61181355	-2.06777191	10.52893353
1368	1.7628051	-11.05489445	16.49579239	-1.03646266	14.43317509
1369	-0.74180287	-12.52819347	12.07589722	4.26741314	17.01144791
1370	0.87882584	-12.97018337	4.56207275	7.28767586	17.23244286
1371	1.7628051	-10.90756512	2.5731194	6.33003139	13.91752052
1372	0.95249075	-8.25562668	9.79228401	5.59338188	11.11825275
1373	-0.00515347	-6.34033823	15.53814888	8.6136446	9.42395878
1374	1.61547518	-8.25562668	14.35951042	10.67626286	14.21218014
1375	2.13112974	-9.87625599	11.92856693	10.60259819	19.14773178
1376	2.27845979	-9.80259037	14.65417004	8.68730927	21.43134499
1377	3.08877397	-7.51897764	17.08511353	10.30793858	17.08511353
1378	6.77202129	-5.97201347	17.23244286	10.97092247	13.84385586
1379	7.95066023	-5.45635891	14.7278347	11.70757198	12.0022316
1380	6.77202129	-7.66630745	13.25453568	12.22322655	14.43317509
1381	4.193748	-8.10829735	10.08694363	15.02249432	17.08511353
1382	3.97275329	-7.00332308	10.38160324	16.27479935	19.00040054
1383	5.74071169	-5.751019	11.04458809	17.23244286	18.11642265
1384	7.50867033	-8.84494591	11.63390732	15.61181355	19.81071472
1385	7.36134052	-10.68657017	11.11825275	16.34846306	25.18825722
1386	7.14034557	-9.43426609	14.2858448	16.71678734	29.23982811
1387	6.03537178	-4.13039017	16.34846306	16.56945801	25.85124016
1388	4.70940256	-1.84677696	16.27479935	16.20113373	21.72600365
1389	2.4994545	-1.92044199	13.54919529	19.44239044	20.47369957
1390	3.08877397	-3.39374065	12.66521645	22.53631783	22.97830772
1391	3.53076363	-3.98306036	12.8862114	22.68364906	22.97830772
1392	3.16243887	-6.48766804	14.13851547	18.92673683	22.75731277
1393	2.20479465	-8.47662163	13.40186596	17.67443275	21.5050087
1394	2.94144416	-8.32929134	12.29689121	17.37977219	22.38898849
1395	3.45709872	-6.19300842	11.04458809	20.17904091	22.53631783
1396	2.27845979	-6.92965794	12.66521645	22.38898849	22.97830772

	AJ	AK	AL	AM	AN
1347	60.67021942	83.41751099	95.23429108	76.0320282	86.81483459
1348	61.26105881	83.04824066	96.85909271	75.29347992	86.81483459
1349	64.21524811	83.63907623	97.1545105	74.55493164	86.9625473
1350	66.13547516	84.45147705	96.56367493	76.17973328	85.63315582
1351	64.58452606	82.38354492	96.56367493	77.95225525	83.86064148
1352	66.57860565	81.12801361	94.86501312	78.39538574	80.75873566
1353	69.68051147	83.1220932	92.3539505	76.77057648	80.38946533
1354	71.23146057	86.07628632	90.80299377	77.36141205	79.94633484
1355	69.38509369	85.41159058	92.72322083	77.87839508	79.2816391
1356	68.79425049	83.93449402	91.98467255	79.06007385	77.58297729
1357	67.61257172	83.49136353	91.98467255	79.35549927	78.09996033
1358	65.84005737	86.15013885	92.87093353	81.12801361	78.1738205
1359	61.99960709	86.66712189	94.56959534	81.5711441	79.65091705
1360	62.44273376	86.3717041	92.72322083	81.20186615	79.2816391
1361	65.98777008	85.48545074	91.7631073	77.87839508	79.2816391
1362	69.16352844	87.11025238	92.3539505	76.91828918	79.8724823
1363	67.46486664	88.95662689	94.20031738	77.50912476	82.60511017
1364	65.39692688	90.50757599	93.16635132	80.38946533	82.53125763
1365	64.6583786	90.35987091	92.28009033	79.94633484	84.00835419
1366	65.84005737	89.17819214	91.17227173	78.54309082	85.41159058
1367	65.32307434	87.55338287	90.87685394	76.17973328	86.3717041
1368	65.2492218	88.43964386	91.91082001	74.33336639	84.96846771
1369	65.32307434	90.72914124	94.4957428	71.52687836	84.45147705
1370	65.39692688	93.60948181	94.4957428	71.7484436	83.56522369
1371	63.03357315	92.13238525	92.42780304	72.7824173	82.38354492
1372	63.18128204	89.62132263	90.6552887	74.11180115	80.46331787
1373	65.61849213	87.25796509	89.99059296	74.33336639	80.53717041
1374	68.35112	84.00835419	87.25796509	74.55493164	80.16790009
1375	67.16944885	81.05415344	87.62723541	74.92420197	80.90644836
1376	66.28318787	82.53125763	90.28601074	75.14576721	80.24175262
1377	66.8001709	86.51941681	91.68925476	73.44710541	79.72476959
1378	68.35112	89.17819214	91.54154205	73.00397491	77.80454254
1379	66.57860565	86.9625473	94.12646484	72.63470459	77.36141205
1380	65.54463959	82.90052795	94.20031738	73.52096558	77.65683746
1381	65.2492218	78.83850861	91.24612427	72.11772156	81.20186615
1382	66.35704041	78.61694336	88.29193115	72.26542664	83.19594574
1383	67.46486664	80.31560516	89.76902771	71.30532074	83.56522369
1384	68.42498016	80.02018738	89.47360992	70.93604279	81.71884918
1385	67.61257172	77.65683746	87.25796509	68.79425049	82.23583221
1386	67.39100647	77.80454254	84.37762451	69.08966827	82.38354492
1387	67.46486664	78.91236877	84.30377197	70.49291229	81.12801361
1388	66.94788361	76.17973328	83.26980591	72.56085205	79.20778656
1389	62.07345963	69.90207672	83.26980591	71.89615631	80.16790009
1390	59.93167114	68.42498016	84.08220673	70.12364197	79.8724823
1391	62.22117233	70.0497818	85.70701599	67.98184967	76.17973328
1392	66.35704041	70.86219025	83.41751099	68.20341492	72.85626984
1393	65.2492218	67.68643188	80.90644836	67.68643188	73.8902359
1394	63.18128204	66.43090057	80.68488312	68.27726746	76.47515869
1395	61.4087677	67.76028442	82.30969238	68.35112	78.54309082
1396	62.22117233	68.05570221	81.20186615	68.42498016	78.46923828

	AO	AP	AQ	AR	AS
1347	68.20341492	320.2955017	143.3641663	-4.69515467	7.38589573
1348	68.9419632	316.7595825	142.1824951	-4.13039017	8.88374901
1349	70.12364197	315.7282715	140.4099731	-2.92719579	8.46631432
1350	71.30532074	321.547821	142.0347748	-3.09908104	7.31223059
1351	71.7484436	317.7908936	142.9210358	-3.93395019	6.94390583
1352	73.00397491	306.151825	142.4040527	-3.27096581	8.58908939
1353	71.60073853	300.3323059	137.0126495	-3.32007575	9.69406414
1354	72.1915741	307.2568054	132.9506378	-3.34463096	9.42395878
1355	73.96408844	312.1923523	135.01857	-2.36243129	9.08018875
1356	75.21962738	308.1407776	139.0805817	-1.01190794	10.8972578
1357	71.7484436	301.6582642	137.6773377	-0.74180281	12.4687767
1358	69.23738098	303.3525696	136.2741089	-0.61902815	12.78799152
1359	67.90799713	308.3617859	137.3819275	-1.30656731	11.48657703
1360	67.90799713	311.3083801	138.5635986	-1.33112264	10.13605309
1361	66.72631836	309.6140747	133.246048	0.75605094	8.68730927
1362	69.16352844	309.835083	128.9624786	3.80086851	9.3011837
1363	71.60073853	309.6877441	128.1500702	3.53076339	10.8727026
1364	71.60073853	309.3194275	130.8088379	0.73149574	12.27233696
1365	70.12364197	307.1094666	131.0304108	-0.44714308	11.3146925
1366	71.15760803	306.0045166	130.4395752	0.75605083	9.00652409
1367	71.82230377	305.8571777	130.9565582	1.1980406	8.02432537
1368	71.89615631	307.4041443	132.2859345	0.3386164	9.96416855
1369	67.83413696	309.3930969	134.3538818	0.28950638	11.11825275
1370	64.28910828	312.8553467	141.5916443	1.61547494	9.69406414
1371	63.47670364	313.5183411	142.3302002	1.49270034	7.60689068
1372	64.6583786	314.7706299	135.0924225	0.70694095	8.83463955
1373	62.29502487	312.1923523	125.1958771	0.38772622	11.19191742
1374	60.07938004	306.9621582	121.355423	1.24715054	13.08265114
1375	58.89770126	301.1426086	121.2815704	1.76280487	13.89296532
1376	59.85781479	302.6159058	118.1058121	2.42578959	14.92427444
1377	60.22708893	311.0874023	113.0836792	3.11332893	14.82605553
1378	61.99960709	315.7282715	114.5607758	3.99730849	14.01574039
1379	61.26105881	311.0137329	120.6168747	3.65353847	12.81254578
1380	59.85781479	306.4465027	123.8664856	3.03966427	13.30364609
1381	58.89770126	306.0045166	119.5829086	2.6222291	14.06485081
1382	60.52251053	308.803772	118.3273773	2.89233398	15.21893406
1383	59.7101059	307.4041443	118.5489349	2.72044921	15.46448421
1384	58.45457458	306.2991638	118.1058121	1.22259569	15.68547821
1385	56.53434753	307.3304749	115.151619	0.87882566	17.55165863
1386	54.61412048	309.5404358	114.1915054	2.99055386	20.08082008
1387	53.72786331	309.1720886	113.89608	5.56882715	19.58971977
1388	56.82976532	308.7301025	113.4529572	6.08448172	18.06731224
1389	57.71602631	311.7503662	112.7144089	4.95495224	17.82176208
1390	57.05133057	314.7706299	113.4529572	4.90584278	19.39328003
1391	57.42060471	310.4980774	112.6405487	4.58662796	19.51605606
1392	60.44865417	307.6251221	112.4928436	3.67809367	18.60752106
1393	58.01144409	309.2457581	109.5386505	2.67133927	17.52710342
1394	54.09713745	312.7080078	105.8459015	3.43254399	17.35521698
1395	51.73378372	311.3083801	99.19896698	4.39018822	17.91998291
1396	51.73378372	309.6877441	96.3186264	4.04641819	19.34417152

	AT	AU
1347	79.7740097	77.01676178
1348	80.38946533	77.01676178
1349	81.66960907	77.21370697
1350	82.38354492	77.70606995
1351	81.17724609	77.85378265
1352	80.85720825	77.3860321
1353	81.71884918	76.25359344
1354	82.70358276	76.49977112
1355	82.50663757	77.04137421
1356	81.57113647	77.28755951
1357	81.02953339	76.40129852
1358	81.62037659	76.17974091
1359	81.0787735	76.3766861
1360	80.51255035	76.13050079
1361	81.0787735	74.62878418
1362	82.8759079	75.31809998
1363	83.54060364	77.23832703
1364	83.02362061	78.1738205
1365	82.4327774	78.02610779
1366	82.06350708	78.37076569
1367	81.25110626	78.12458038
1368	81.86656189	77.06599426
1369	83.51598358	74.60416412
1370	84.50071716	73.20092773
1371	82.53125	72.88088989
1372	81.15263367	73.07783508
1373	80.95568085	72.38851929
1374	79.8724823	71.60073853
1375	78.61694336	71.57611847
1376	79.70014954	71.7484436
1377	81.6696167	71.13298798
1378	83.02362061	70.93604279
1379	82.55587006	70.41905975
1380	80.88182831	70.34520721
1381	78.44461823	70.7390976
1382	77.75530243	71.99462891
1383	79.1831665	71.52688599
1384	79.30625916	70.36981964
1385	77.50912476	69.18814087
1386	76.52439117	68.69577789
1387	76.89366913	68.44960022
1388	75.46580505	69.53279877
1389	71.7484436	69.92669678
1390	70.81295013	69.01581573
1391	72.65932465	67.19406128
1392	73.545578	67.16944885
1393	71.28070068	66.52937317
1394	70.09902191	66.28318787
1395	70.49291229	66.20933533
1396	70.49291229	66.20933533

	A	B	C	D	E	F	G	H	I	J	K
1397								.008910	15.91	61.41	3.46
1398								.008920	16.79	62.22	2.28
1399								.008930	16.13	62.37	1.10
1400								.008940	16.35	63.18	2.28
1401								.008950	15.10	62.52	4.49
1402								.008960	13.25	61.78	4.49
1403								.008970	10.90	59.05	.29
1404								.008980	10.90	59.78	-1.04
1405								.008990	9.13	60.67	.29
1406								.009000	8.61	62.00	3.31
1407								.009010	10.01	64.22	5.08
1408								.009020	12.08	66.58	5.59
1409								.009030	9.87	66.36	3.83
1410								.009040	6.77	66.14	3.24
1411								.009050	7.07	66.06	3.60
1412								.009060	11.56	65.10	5.37
1413								.009070	14.88	62.44	5.15
1414								.009080	15.24	61.93	3.31
1415								.009090	13.25	62.00	.07
1416								.009100	12.08	61.63	-1.18
1417								.009110	10.97	60.52	1.62
1418								.009120	11.56	61.11	5.00
1419								.009130	12.15	61.26	3.68
1420								.009140	12.81	61.56	2.35
1421								.009150	15.32	61.63	6.04
1422								.009160	23.13	62.74	11.78
1423								.009170	26.66	62.30	12.96
1424								.009180	20.62	60.82	11.27
1425								.009190	11.71	58.90	8.76
1426								.009200	9.87	59.49	6.18
1427								.009210	9.94	61.41	1.84
1428								.009220	9.42	63.99	3.83
1429								.009230	7.66	63.99	10.09
1430								.009240	7.88	63.18	14.88
1431								.009250	7.95	62.15	12.08
1432								.009260	8.83	62.15	7.66
1433								.009270	10.97	61.70	7.14
1434								.009280	12.44	62.44	9.87
1435								.009290	10.23	62.52	11.19
1436								.009300	7.95	62.00	12.30
1437								.009310	8.10	61.19	14.58
1438								.009320	10.01	60.89	18.41
1439								.009330	10.31	59.78	19.44
1440								.009340	8.69	58.90	17.23
1441								.009350	3.46	58.16	15.24
1442								.009360	-3.03	57.64	16.20
1443								.009370	-7.67	58.31	17.16
1444								.009380	-4.87	60.23	16.50
1445								.009390	1.25	60.82	15.32
1446								.009400	5.15	60.60	13.99

	L	M	N	O	P	Q	R	S	T
1397	67.76	-6.19	82.31	11.04	68.35	20.18	78.54	22.54	51.73
1398	68.06	-6.93	81.20	12.67	68.42	22.39	78.47	22.98	51.73
1399	67.02	-7.59	79.58	13.40	66.43	23.64	78.69	22.98	50.77
1400	67.91	-8.62	79.36	13.18	66.14	22.68	78.84	24.01	54.98
1401	70.57	-7.67	83.42	11.93	66.36	21.21	80.76	21.80	58.60
1402	69.68	-6.86	85.78	12.52	67.02	17.97	80.61	20.99	60.23
1403	65.40	-5.68	84.23	13.25	65.54	18.34	81.64	20.69	57.27
1404	66.36	-5.38	79.28	17.01	65.69	20.55	82.01	22.02	56.61
1405	69.46	-3.54	77.51	18.71	66.21	20.92	82.53	20.99	60.60
1406	68.42	-2.88	77.73	19.96	70.12	15.91	82.24	20.25	72.63
1407	65.40	-1.99	79.87	17.67	72.71	14.73	82.61	20.33	78.69
1408	68.94	-1.33	80.68	17.38	73.52	19.22	81.05	22.46	68.65
1409	74.70	-.15	81.64	17.82	71.90	24.38	78.10	24.82	54.02
1410	75.59	-1.55	81.64	19.88	73.08	22.39	73.82	25.41	52.03
1411	71.31	-4.72	81.35	19.00	73.08	19.59	73.96	22.83	56.98
1412	70.35	-5.24	79.72	19.81	72.27	18.12	75.44	22.09	60.01
1413	73.15	.58	79.43	20.47	69.39	18.56	77.88	22.24	58.09
1414	75.00	3.09	77.58	23.13	68.65	16.79	78.47	21.80	56.53
1415	72.34	.73	77.07	22.09	69.16	14.58	78.62	20.11	57.42
1416	71.60	-2.51	76.99	19.00	71.45	13.99	78.69	21.73	60.82
1417	75.44	-1.18	78.54	14.80	70.71	16.64	79.28	22.68	60.60
1418	79.95	.51	78.84	16.13	69.98	19.07	78.17	22.61	61.41
1419	79.13	.81	77.88	19.15	68.79	21.87	77.29	19.22	62.15
1420	76.11	-.15	76.25	21.36	69.02	23.57	77.07	17.90	61.85
1421	75.59	.66	76.62	18.26	68.06	23.86	76.03	18.85	57.64
1422	75.88	.95	76.62	15.83	69.68	19.74	72.19	23.27	57.27
1423	72.63	1.47	77.73	15.46	69.61	17.82	70.49	24.45	56.98
1424	70.71	.81	77.95	17.09	68.06	19.59	70.79	23.71	56.24
1425	72.93	1.91	77.73	17.23	65.69	23.57	70.27	20.77	54.17
1426	76.18	.58	74.85	18.71	65.54	24.60	66.58	19.81	53.58
1427	75.29	.58	74.85	19.81	65.10	23.57	65.54	17.97	51.51
1428	75.74	1.03	76.11	21.80	65.69	21.87	67.24	18.12	51.29
1429	78.76	3.60	77.58	21.87	65.54	22.02	71.45	18.78	51.81
1430	80.17	3.97	74.78	22.09	67.02	21.80	74.70	20.62	53.88
1431	76.48	4.19	71.90	20.62	68.20	21.28	76.70	22.61	54.17
1432	75.15	3.53	70.71	21.21	69.53	19.52	77.51	26.15	54.17
1433	78.47	5.23	72.41	22.39	69.31	20.92	80.32	26.96	52.69
1434	81.05	5.89	73.37	25.19	70.79	20.40	78.76	25.19	52.84
1435	78.76	6.77	74.33	23.94	71.67	19.96	75.59	23.27	54.98
1436	78.40	4.86	72.71	22.24	72.63	21.06	74.26	22.54	59.64
1437	81.72	5.15	71.82	19.81	71.31	22.98	77.66	20.47	61.26
1438	84.89	5.30	69.75	20.92	70.42	20.47	80.17	21.36	62.22
1439	82.83	6.18	68.65	23.49	68.65	17.38	81.35	23.13	63.11
1440	78.54	6.26	65.99	26.74	69.83	16.20	80.46	25.34	64.51
1441	75.74	9.28	63.99	25.63	71.08	17.97	79.72	25.92	64.07
1442	76.48	11.49	62.89	22.54	71.23	18.71	77.36	25.56	65.54
1443	77.73	11.12	64.44	19.74	69.83	19.22	76.33	20.69	66.28
1444	78.40	10.01	65.99	21.36	71.90	19.15	77.21	17.67	67.69
1445	78.10	10.97	65.91	21.43	73.96	19.30	80.02	17.38	67.39
1446	75.52	9.35	63.40	22.39	73.74	17.90	79.87	20.18	67.32

	U	V	W	X	Y	Z	AA	AB	AC	AD
1397	.008910	311.31	99.20	4.39	70.49	17.92	66.21		0.01392	16.12746811
1398	.008920	309.69	96.32	4.05	70.49	19.34	66.21		0.01393	16.34846306
1399	.008930	310.50	100.45	3.21	69.66	20.01	65.30		0.01394	15.09615898
1400	.008940	311.90	104.74	3.33	70.15	19.96	66.65		0.01395	13.25453568
1401	.008950	309.91	102.89	3.97	72.17	18.31	68.57		0.01396	10.8972578
1402	.008960	306.45	85.02	3.63	72.41	17.16	69.29		0.01397	10.8972578
1403	.008970	304.38	31.99	1.84	69.56	17.43	68.15		0.01398	9.12929916
1404	.008980	306.45	-30.49	1.49	68.47	19.86	68.10		0.01399	8.6136446
1405	.008990	307.40	-21.55	1.96	69.21	20.20	69.78		0.014	10.01327896
1406	.009000	310.20	58.36	3.02	69.39	18.71	75.00		0.01401	12.07589722
1407	.009010	311.90	104.37	4.37	69.83	17.58	78.00		0.01402	9.86594868
1408	.009020	313.22	90.04	5.45	72.07	19.69	74.41		0.01403	6.77202129
1409	.009030	313.08	76.89	4.51	74.23	22.34	68.01		0.01404	7.06668091
1410	.009040	312.71	90.04	2.82	74.46	22.56	66.31		0.01405	11.56024265
1411	.009050	312.27	99.86	1.98	72.91	20.47	68.01		0.01406	14.87516499
1412	.009060	313.37	93.81	3.90	71.72	20.01	69.24		0.01407	15.24348927
1413	.009070	312.05	88.86	6.87	71.67	20.42	68.45		0.01408	13.25453568
1414	.009080	312.63	94.47	7.21	71.50	20.57	67.88		0.01409	12.07589722
1415	.009090	313.96	97.20	4.68	70.47	18.93	68.40		0.0141	10.97092247
1416	.009100	316.02	93.88	2.79	70.07	18.24	70.32		0.01411	11.56024265
1417	.009110	312.27	86.50	3.80	71.50	18.04	70.20		0.01412	12.14956188
1418	.009120	308.29	82.95	5.69	73.30	19.27	69.85		0.01413	12.81254578
1419	.009130	307.04	81.70	5.54	72.76	20.08	69.41		0.01414	15.31715393
1420	.009140	309.76	84.50	5.00	71.31	20.94	69.31		0.01415	23.12563705
1421	.009150	310.79	90.04	7.34	71.28	20.33	67.24		0.01416	26.66155434
1422	.009160	307.40	91.37	11.95	71.75	19.61	66.38		0.01417	20.62103081
1423	.009170	304.75	86.94	13.70	70.89	19.25	65.69		0.01418	11.70757198
1424	.009180	307.48	87.60	10.90	69.83	20.13	65.03		0.01419	9.86594868
1425	.009190	311.75	93.88	7.46	69.85	20.52	63.38		0.0142	9.93961334
1426	.009200	315.21	99.64	5.54	70.17	21.04	61.90		0.01421	9.42395878
1427	.009210	311.60	97.35	4.12	70.52	20.45	60.72		0.01422	7.65600061
1428	.009220	307.99	94.92	4.76	71.95	20.60	61.41		0.01423	7.87699509
1429	.009230	308.36	95.73	7.12	73.45	20.89	62.94		0.01424	7.95066023
1430	.009240	311.46	98.17	8.91	72.71	21.51	65.20		0.01425	8.83463955
1431	.009250	312.63	99.20	8.07	70.17	21.51	66.36		0.01426	10.97092247
1432	.009260	310.06	98.76	6.67	69.34	22.29	67.07		0.01427	12.4442215
1433	.009270	310.06	100.09	7.78	70.86	23.42	67.44		0.01428	10.23427296
1434	.009280	313.08	102.01	9.40	72.29	23.59	67.46		0.01429	7.95066023
1435	.009290	313.30	100.53	9.40	71.87	22.39	67.42		0.0143	8.09799004
1436	.009300	312.12	99.72	8.37	71.03	21.95	68.84		0.01431	10.01327896
1437	.009310	309.39	99.57	9.28	71.58	21.09	70.07		0.01432	10.30793858
1438	.009320	308.88	101.12	11.24	71.85	20.92	70.94		0.01433	8.68730927
1439	.009330	309.17	100.90	11.98	70.42	21.33	71.03		0.01434	3.45709872
1440	.009340	310.06	100.75	10.73	67.81	22.76	71.60		0.01435	-3.02541614
1441	.009350	310.94	102.30	9.33	65.96	23.17	71.63		0.01436	-7.66630745
1442	.009360	311.09	104.37	8.22	65.67	22.27	71.38		0.01437	-4.86703968
1443	.009370	310.57	105.40	6.87	66.82	19.88	70.81		0.01438	1.24715054
1444	.009380	309.84	104.22	7.21	68.20	19.39	72.27		0.01439	5.15139246
1445	.009390	308.80	102.74	9.18	68.28	19.37	73.79		0.0144	5.15139246
1446	.009400	311.82	104.37	9.50	66.50	20.15	73.64		0.01441	9.27662945

	AE	AF	AG	AH	AI
1397	1.09982061	-7.59264231	13.40186596	23.64129257	22.97830772
1398	2.27845979	-8.62395191	13.18087101	22.68364906	24.00961685
1399	4.48840809	-7.66630745	11.92856693	21.21035004	21.79966927
1400	4.48840809	-6.85599279	12.51788616	17.96909142	20.98935509
1401	0.28950629	-5.67735386	13.25453568	18.3374176	20.69469452
1402	-1.03646266	-5.38269424	17.01144791	20.54736519	22.02066422
1403	0.28950629	-3.5410707	18.70574188	20.91568947	20.98935509
1404	3.30976892	-2.87808609	19.95804596	15.90647411	20.25270462
1405	5.07772732	-1.99410689	17.67443275	14.7278347	20.32637024
1406	5.59338188	-1.3311224	17.37977219	19.22139549	22.46265411
1407	3.82542348	-0.15248336	17.82176208	24.37794113	24.81993103
1408	3.23610401	-1.55211723	19.88438034	22.38898849	25.40925026
1409	3.60442853	-4.71970987	19.00040054	19.58972168	22.83097839
1410	5.37238741	-5.23536444	19.81071472	18.11642265	22.09432793
1411	5.15139246	0.58416605	20.47369957	18.55841255	22.24165916
1412	3.30976892	3.08877397	23.12563705	16.79045296	21.79966927
1413	0.06851147	0.73149592	22.09432793	14.58050442	20.10537529
1414	-1.18379247	-2.50976157	19.00040054	13.99118519	21.72600365
1415	1.61547518	-1.18379247	14.80149937	16.64312363	22.68364906
1416	5.00406265	0.51050109	16.12746811	19.07406616	22.60998344
1417	3.67809367	0.80516088	19.14773178	21.87333488	19.22139549
1418	2.35212469	-0.15248336	21.35767937	23.56762695	17.8954277
1419	6.03537178	0.65783101	18.26375198	23.86228752	18.85307121
1420	11.78123665	0.95249075	15.83280849	19.73705101	23.27296829
1421	12.95987606	1.46814537	15.46448421	17.82176208	24.45160675
1422	11.26558208	0.80516088	17.08511353	19.58972168	23.71495819
1423	8.76097488	1.91013503	17.23244286	23.56762695	20.76836014
1424	6.18270159	0.58416605	18.70574188	24.59893608	19.81071472
1425	1.83647001	0.58416605	19.81071472	23.56762695	17.96909142
1426	3.82542348	1.02615571	21.79966927	21.87333488	18.11642265
1427	10.08694363	3.60442853	21.87333488	22.02066422	18.77940559
1428	14.87516499	3.97275329	22.09432793	21.79966927	20.62103081
1429	12.07589722	4.193748	20.62103081	21.28401375	22.60998344
1430	7.65600061	3.53076363	21.21035004	19.51605606	26.14590073
1431	7.14034557	5.22505713	22.38898849	20.91568947	26.9562149
1432	9.86594868	5.88804197	25.18825722	20.40003586	25.18825722
1433	11.19191742	6.77202129	23.93595314	19.95804596	23.27296829
1434	12.29689121	4.85673285	22.24165916	21.0630188	22.53631783
1435	14.58050442	5.15139246	19.81071472	22.97830772	20.47369957
1436	18.41108131	5.29872227	20.91568947	20.47369957	21.35767937
1437	19.44239044	6.18270159	23.49396324	17.37977219	23.12563705
1438	17.23244286	6.25636673	26.73521996	16.20113373	25.33558655
1439	15.24348927	9.27662945	25.63024521	17.96909142	25.92490578
1440	16.20113373	11.48657703	22.53631783	18.70574188	25.5565815
1441	17.15877724	11.11825275	19.73705101	19.22139549	20.69469452
1442	16.49579239	10.01327896	21.35767937	19.14773178	17.67443275
1443	15.31715393	10.97092247	21.43134499	19.29506111	17.37977219
1444	13.99118519	9.35029411	22.38898849	17.8954277	20.17904091
1445	13.54919529	7.50867033	21.9469986	15.53814888	20.10537529
1446	14.58050442	7.95066023	21.28401375	11.26558208	20.54736519

	AJ	AK	AL	AM	AN
1397	62.36888123	67.02173615	79.57705688	66.43090057	78.69080353
1398	63.18128204	67.90799713	79.35549927	66.13547516	78.83850861
1399	62.51659012	70.56676483	83.41751099	66.35704041	80.75873566
1400	61.77804184	69.68051147	85.78086853	67.02173615	80.61103058
1401	59.04541016	65.39692688	84.2299118	65.54463959	81.64499664
1402	59.78396225	66.35704041	79.2816391	65.69234467	82.01426697
1403	60.67021942	69.45894623	77.50912476	66.20933533	82.53125763
1404	61.99960709	68.42498016	77.73069	70.12364197	82.23583221
1405	64.21524811	65.39692688	79.8724823	72.70855713	82.60511017
1406	66.57860565	68.9419632	80.68488312	73.52096558	81.05415344
1407	66.35704041	74.70263672	81.64499664	71.89615631	78.09996033
1408	66.13547516	75.58889771	81.64499664	73.07783508	73.81638336
1409	66.06162262	71.30532074	81.34957886	73.07783508	73.96408844
1410	65.10150909	70.34520721	79.72476959	72.26542664	75.441185
1411	62.44273376	73.15168762	79.42935181	69.38509369	77.87839508
1412	61.92575073	74.99806213	77.58297729	68.64654541	78.46923828
1413	61.99960709	72.3392868	77.06599426	69.16352844	78.61694336
1414	61.63033295	71.60073853	76.99214172	71.45302582	78.69080353
1415	60.52251053	75.441185	78.54309082	70.71447754	79.2816391
1416	61.1133461	79.94633484	78.83850861	69.97592926	78.1738205
1417	61.26105881	79.13393402	77.87839508	68.79425049	77.28755951
1418	61.55647659	76.10588074	76.25359344	69.01581573	77.06599426
1419	61.63033295	75.58889771	76.62286377	68.05570221	76.0320282
1420	62.73815536	75.88431549	76.62286377	69.68051147	72.1915741
1421	62.29502487	72.63470459	77.73069	69.60665894	70.49291229
1422	60.81792831	70.71447754	77.95225525	68.05570221	70.78833008
1423	58.89770126	72.93012238	77.73069	65.69234467	70.27134705
1424	59.48854065	76.17973328	74.85034943	65.54463959	66.57860565
1425	61.4087677	75.29347992	74.85034943	65.10150909	65.54463959
1426	63.99368668	75.73661041	76.10588074	65.69234467	67.24330139
1427	63.99368668	78.76465607	77.58297729	65.54463959	71.45302582
1428	63.18128204	80.16790009	74.77649689	67.02173615	74.70263672
1429	62.14731598	76.47515869	71.89615631	68.20341492	76.69672394
1430	62.14731598	75.14576721	70.71447754	69.53279877	77.50912476
1431	61.70418549	78.46923828	72.41313934	69.31123352	80.31560516
1432	62.44273376	81.05415344	73.37325287	70.78833008	78.76465607
1433	62.51659012	78.76465607	74.33336639	71.67459106	75.58889771
1434	61.99960709	78.39538574	72.70855713	72.63470459	74.25951385
1435	61.18720245	81.71884918	71.82230377	71.30532074	77.65683746
1436	60.89178467	84.89460754	69.75436401	70.41905975	80.16790009
1437	59.78396225	82.82667542	68.64654541	68.64654541	81.34957886
1438	58.89770126	78.54309082	65.98777008	69.82821655	80.46331787
1439	58.15915298	75.73661041	63.99368668	71.08375549	79.72476959
1440	57.64216995	76.47515869	62.88586426	71.23146057	77.36141205
1441	58.30686188	77.73069	64.43681335	69.82821655	76.32744598
1442	60.22708893	78.39538574	65.98777008	71.89615631	77.21370697
1443	60.81792831	78.09996033	65.91390991	73.96408844	80.02018738
1444	60.59636307	75.51504517	63.40284729	73.74252319	79.8724823
1445	59.04541016	71.97000885	64.28910828	71.52687836	77.58297729
1446	58.89770126	71.23146057	67.24330139	72.1915741	75.441185

	AO	AP	AQ	AR	AS
1397	50.7736702	310.4980774	100.4544983	3.21154881	20.00715637
1398	54.98339462	311.8977051	104.7380829	3.33432364	19.95804596
1399	58.60228348	309.9087524	102.8917084	3.97275329	18.3128624
1400	60.22708893	306.4465027	85.01883698	3.62898374	17.15877724
1401	57.27289581	304.3838806	31.99105644	1.83647013	17.4288826
1402	56.60820389	306.4465027	-30.49014664	1.49270034	19.85982513
1403	60.59636307	307.4041443	-21.55370903	1.95924497	20.20359612
1404	72.63470459	310.2033997	58.35723877	3.01510906	18.70574188
1405	78.69080353	311.8977051	104.3688049	4.36563301	17.57621193
1406	68.64654541	313.2236633	90.04096985	5.44605207	19.6879406
1407	54.0232811	313.076355	76.89480591	4.51296282	22.33987808
1408	52.02920151	312.7080078	90.04096985	2.81866932	22.56087303
1409	56.97747803	312.2660217	99.86366272	1.98379982	20.47369957
1410	60.00552368	313.3710022	93.80756378	3.89908862	20.00715446
1411	58.08530045	312.045044	88.85929108	6.87024117	20.42459106
1412	56.53434753	312.6343384	94.47225952	7.21401072	20.57192039
1413	57.42060471	313.9603272	97.20488739	4.68484783	18.92673492
1414	60.81792831	316.0229492	93.88141632	2.79411435	18.23919678
1415	60.59636307	312.2660217	86.49593353	3.80086851	18.04275703
1416	61.4087677	308.2881165	82.95090485	5.69160223	19.27050591
1417	62.14731598	307.0358276	81.69536591	5.54427195	20.08082008
1418	61.85189819	309.7614136	84.50185394	5.00406218	20.94024467
1419	57.64216995	310.7927246	90.04096985	7.33678579	20.32637024
1420	57.27289581	307.4041443	91.3703537	11.95312119	19.61427689
1421	56.97747803	304.7521973	86.93906403	13.69652557	19.2459507
1422	56.23892593	307.4778137	87.60375977	10.8972578	20.1299305
1423	54.1709938	311.7503662	93.88141632	7.45956039	20.52280998
1424	53.58015442	315.212616	99.64209747	5.54427195	21.03846359
1425	51.51221848	311.6030579	97.3526001	4.12008333	20.44914436
1426	51.29065323	307.9934692	94.91539001	4.7585125	20.5964756
1427	51.80763626	308.3617859	95.72779083	7.11579084	20.89113426
1428	53.8755722	311.455719	98.16500092	8.90830421	21.5050087
1429	54.1709938	312.6343384	99.19896698	8.07343483	21.5050087
1430	54.1709938	310.0560913	98.75583649	6.67380142	22.29076958
1431	52.69389343	310.0560913	100.085228	7.77877522	23.42029762
1432	52.84160614	313.076355	102.005455	9.39940453	23.59218407
1433	54.98339462	313.2973328	100.5283585	9.39940357	22.38898849
1434	59.63624954	312.1186829	99.71595001	8.36809444	21.9469986
1435	61.26105881	309.3930969	99.56824493	9.27662849	21.08757401
1436	62.22117233	308.8774414	101.119194	11.24102783	20.91568947
1437	63.1074295	309.1720886	100.8976288	11.97767639	21.33312416
1438	64.51067352	310.0560913	100.7499237	10.72537327	22.75731277
1439	64.06754303	310.9400635	102.3008728	9.32573891	23.17474747
1440	65.54463959	311.0874023	104.3688049	8.22076511	22.26621437
1441	66.28318787	310.5717468	105.4027786	6.87024069	19.88438034
1442	67.68643188	309.835083	104.2210999	7.21401072	19.39328194
1443	67.39100647	308.803772	102.7440033	9.17840862	19.36872673
1444	67.31715393	311.8240356	104.3688049	9.49762344	20.1544857
1445	65.76620483	314.1813049	105.6243439	8.73641968	19.19684029
1446	66.43090057	315.7282715	105.5504837	10.60259819	17.69898605

	AT	AU
1397	69.65589142	65.29846191
1398	70.14826202	66.65245819
1399	72.16695404	68.57268524
1400	72.41313934	69.28662109
1401	69.55741882	68.1541748
1402	68.47421265	68.10493469
1403	69.21276093	69.77898407
1404	69.38509369	74.99806213
1405	69.82821655	78.00148773
1406	72.06848145	74.40721893
1407	74.2348938	68.00646973
1408	74.45645905	66.30780792
1409	72.90550995	68.00646973
1410	71.72383118	69.23738098
1411	71.67459106	68.44960022
1412	71.50226593	67.88337708
1413	70.46829224	68.40036011
1414	70.07440186	70.32058716
1415	71.5022583	70.19749451
1416	73.2993927	69.85283661
1417	72.75779724	69.40970612
1418	71.30531311	69.31123352
1419	71.28070068	67.24330139
1420	71.7484436	66.38166046
1421	70.8868103	65.69235229
1422	69.82821655	65.02764893
1423	69.85283661	63.37822723
1424	70.17287445	61.90113449
1425	70.51753235	60.71945572
1426	71.94538879	61.4087677
1427	73.44710541	62.93510056
1428	72.70855713	65.19998169
1429	70.17287445	66.35704041
1430	69.33585358	67.07096863
1431	70.86219025	67.44024658
1432	72.29004669	67.46486664
1433	71.87153625	67.41562653
1434	71.03451538	68.8434906
1435	71.57611847	70.07440186
1436	71.8469162	70.93604279
1437	70.41905975	71.03451538
1438	67.80952454	71.60073853
1439	65.96315002	71.62535858
1440	65.66773224	71.37917328
1441	66.82479095	70.81295013
1442	68.20341492	72.26543427
1443	68.27726746	73.79176331
1444	66.50475311	73.6440506
1445	65.10150909	71.62535095
1446	65.79081726	71.35455322

	A	B	C	D	E	F	G	H	I	J	K
1447								.009410	5.15	59.05	13.55
1448								.009420	9.28	58.90	14.58
1449								.009430	13.11	58.75	16.72
1450								.009440	13.03	60.97	19.59
1451								.009450	8.69	62.59	17.82
1452								.009460	5.30	62.59	15.32
1453								.009470	6.33	60.15	15.02
1454								.009480	11.27	58.97	15.61
1455								.009490	13.99	60.08	13.33
1456								.009500	13.48	61.26	11.27
1457								.009510	10.60	60.52	10.01
1458								.009520	8.39	61.19	10.23
1459								.009530	7.95	62.81	10.68
1460								.009540	9.20	62.59	10.90
1461								.009550	10.46	58.82	9.06
1462								.009560	10.23	56.31	6.99
1463								.009570	8.39	56.83	6.55
1464								.009580	8.32	58.75	7.51
1465								.009590	9.87	58.45	6.62
1466								.009600	11.49	58.01	4.49
1467								.009610	10.75	58.60	4.27
1468								.009620	11.34	59.78	7.80
1469								.009630	11.85	59.49	10.68
1470								.009640	11.78	59.78	8.10
1471								.009650	9.72	59.34	3.83
1472								.009660	8.98	58.82	2.57
1473								.009670	10.90	59.12	3.68
1474								.009680	13.40	60.37	5.23
1475								.009690	12.96	60.30	4.86
1476								.009700	10.60	59.64	4.12
1477								.009710	9.87	60.23	3.60
1478								.009720	12.52	61.04	5.08
1479								.009730	15.32	60.82	5.81
1480								.009740	13.70	60.82	5.00
1481								.009750	10.97	63.03	3.24
1482								.009760	15.61	65.99	2.72
1483								.009770	24.53	64.95	2.65
1484								.009780	33.00	63.11	4.12
1485								.009790	38.45	63.55	5.89
1486								.009800	34.32	65.40	5.15
1487								.009810	24.75	64.95	1.62
1488								.009820	21.58	62.74	.51
1489								.009830	20.55	63.48	2.72
1490								.009840	15.83	65.99	4.93
1491								.009850	16.13	65.54	3.31
1492								.009860	23.27	63.26	2.50
1493								.009870	22.39	63.99	2.35
1494								.009880	14.73	64.81	2.35
1495								.009890	13.99	62.81	.51
1496								.009900	18.41	60.74	- 15

	L	M	N	O	P	Q	R	S	T
1447	71.97	7.51	64.29	21.95	71.53	15.54	77.58	20.11	65.77
1448	71.23	7.95	67.24	21.28	72.19	11.27	75.44	20.55	66.43
1449	73.23	11.19	69.83	17.23	72.49	11.85	76.48	20.69	65.99
1450	74.63	10.31	70.42	13.84	72.19	14.73	76.48	20.33	63.03
1451	72.78	8.17	73.08	14.29	72.19	14.51	75.15	17.53	58.60
1452	71.31	5.45	72.49	18.41	74.11	9.72	72.56	16.64	58.31
1453	71.01	6.48	70.64	19.22	74.26	9.87	73.59	15.91	58.90
1454	71.75	7.14	68.94	18.63	74.78	13.40	75.37	16.86	59.93
1455	72.12	8.39	71.16	16.05	73.67	15.61	75.88	16.50	59.49
1456	72.19	7.21	71.90	17.38	72.86	13.25	73.89	16.05	57.49
1457	71.08	8.10	71.53	18.71	71.31	12.15	72.78	16.20	55.72
1458	70.27	9.28	68.79	20.92	71.90	13.55	71.23	17.75	56.53
1459	70.27	10.23	70.27	24.45	71.16	23.71	71.75	18.71	58.01
1460	71.82	7.51	71.90	35.87	71.23	37.27	71.90	17.82	58.60
1461	73.96	5.59	71.45	46.99	70.27	43.75	73.00	16.13	59.34
1462	74.70	5.89	68.65	40.95	68.72	28.58	73.89	15.98	61.93
1463	72.71	8.25	69.83	20.84	66.43	7.66	75.96	15.39	61.48
1464	71.01	6.33	70.64	14.51	66.80	2.35	76.99	17.38	60.67
1465	70.49	2.87	70.27	21.28	67.61	11.34	78.99	19.15	61.26
1466	71.45	-.08	67.83	22.17	68.13	16.20	79.95	20.47	63.99
1467	71.67	1.32	67.69	14.43	67.61	14.14	80.98	19.30	63.62
1468	70.79	3.16	67.46	12.37	68.57	11.93	81.05	19.74	63.48
1469	71.01	3.83	66.87	15.32	69.46	15.76	83.20	19.37	62.74
1470	72.63	.36	66.14	17.09	71.08	18.63	84.16	17.97	62.30
1471	72.71	-1.77	66.21	13.03	71.90	19.15	84.01	14.88	60.82
1472	71.08	-.74	66.28	8.91	73.67	17.75	81.13	15.61	60.82
1473	70.94	2.65	67.32	7.44	73.82	19.00	79.72	18.56	59.78
1474	73.15	3.09	66.95	10.75	75.81	17.60	77.29	22.54	61.11
1475	74.11	3.09	66.87	12.74	78.99	15.46	75.81	22.39	62.15
1476	73.67	2.28	68.06	14.58	82.24	13.33	74.63	18.85	61.85
1477	73.82	2.94	70.94	15.24	81.20	13.70	75.74	16.57	59.49
1478	75.44	1.39	71.31	15.98	80.17	13.92	75.15	18.41	57.72
1479	76.18	1.62	73.15	13.40	78.84	15.61	75.74	16.94	55.13
1480	76.77	1.98	74.04	13.55	80.17	14.43	76.18	14.51	55.35
1481	77.07	1.98	73.52	14.88	79.80	13.92	78.76	14.43	57.49
1482	76.62	-.30	69.83	14.58	80.46	14.73	80.76	17.23	59.12
1483	73.59	-.15	69.31	6.99	81.57	16.50	80.39	17.82	57.72
1484	71.45	-1.18	70.42	4.64	83.71	14.58	77.80	17.97	56.83
1485	71.82	-2.22	73.08	11.04	82.83	12.37	78.03	17.67	55.57
1486	74.11	-2.80	72.63	18.48	80.76	10.53	79.21	18.26	55.20
1487	73.82	-.82	73.37	17.53	79.43	12.22	80.32	15.98	54.02
1488	71.31	-1.48	73.82	14.80	80.83	13.84	77.36	13.99	54.91
1489	69.09	-1.92	74.33	14.88	79.58	14.36	75.15	13.92	55.87
1490	69.46	-2.44	72.12	18.63	77.36	12.44	73.37	17.38	57.05
1491	69.09	-1.63	71.60	19.44	75.44	11.41	73.89	17.45	55.13
1492	69.53	-3.03	71.01	18.19	74.85	10.82	74.55	16.20	54.91
1493	71.23	-3.47	70.71	18.85	73.15	12.74	75.74	13.40	56.68
1494	72.27	-3.54	68.65	22.90	72.63	15.02	75.74	14.65	60.89
1495	70.57	-2.95	67.76	22.83	70.79	17.67	75.52	16.50	59.86
1496	69.39	-2.80	67.69	21.21	70.79	15.10	72.78	18.26	56.90

	U	V	W	X	Y	Z	AA	AB	AC	AD
1447	.009410	314.18	105.62	8.74	65.10	19.20	71.63		0.01442	13.10720634
1448	.009420	315.73	105.55	10.60	65.79	17.70	71.35		0.01443	13.03354073
1449	.009430	314.92	103.19	13.67	67.27	16.59	71.65		0.01444	8.68730927
1450	.009440	314.70	103.41	14.31	68.67	16.30	70.57		0.01445	5.29872227
1451	.009450	311.53	106.88	11.56	69.48	15.44	68.65		0.01446	6.33003139
1452	.009460	306.15	109.39	8.69	68.79	14.92	68.33		0.01447	11.26558208
1453	.009470	302.62	112.05	9.28	67.27	15.00	68.92		0.01448	13.99118519
1454	.009480	304.16	120.62	11.34	66.55	16.30	70.03		0.01449	13.47553062
1455	.009490	308.36	123.35	11.90	67.78	16.05	69.68		0.0145	10.60259819
1456	.009500	310.65	111.16	10.65	68.45	15.56	68.08		0.01451	8.39264965
1457	.009510	306.74	94.32	9.57	67.71	15.69	66.60		0.01452	7.95066023
1458	.009520	304.53	93.00	9.30	66.75	17.40	66.55		0.01453	9.20296383
1459	.009530	305.27	100.90	9.62	67.78	22.29	66.97		0.01454	10.45526791
1460	.009540	309.25	106.14	9.20	68.77	30.32	67.24		0.01455	10.23427296
1461	.009550	310.79	103.70	8.37	68.08	35.62	67.54		0.01456	8.39264965
1462	.009560	312.27	101.12	7.71	66.55	28.50	68.18		0.01457	8.31898499
1463	.009570	315.36	102.01	7.73	66.46	14.63	67.96		0.01458	9.86594868
1464	.009580	318.45	104.00	7.39	66.80	11.41	68.15		0.01459	11.48657703
1465	.009590	318.16	103.19	6.45	66.41	17.26	69.29		0.0146	10.74992752
1466	.009600	316.76	104.89	5.30	65.77	19.61	70.69		0.01461	11.3392477
1467	.009610	315.88	114.04	5.45	65.99	15.96	70.74		0.01462	11.85490227
1468	.009620	318.23	125.42	7.44	66.01	14.68	71.03		0.01463	11.78123665
1469	.009630	319.12	118.62	8.79	65.79	16.82	71.80		0.01464	9.71861839
1470	.009640	319.93	104.22	6.75	66.18	17.90	72.51		0.01465	8.98196888
1471	.009650	319.56	98.76	3.92	66.09	15.69	72.24		0.01466	10.8972578
1472	.009660	318.31	99.94	3.60	65.40	14.09	71.87		0.01467	13.40186596
1473	.009670	316.54	98.68	5.74	65.79	15.00	71.11		0.01468	12.95987606
1474	.009680	314.55	96.76	7.24	66.82	16.96	71.40		0.01469	10.60259819
1475	.009690	316.17	98.31	6.97	67.10	16.86	72.31		0.0147	9.86594868
1476	.009700	317.79	99.57	5.67	67.12	15.59	72.91		0.01471	12.51788616
1477	.009710	317.50	100.68	5.47	68.33	15.17	72.14		0.01472	15.31715393
1478	.009720	318.38	103.19	6.33	69.26	16.10	71.01		0.01473	13.69652557
1479	.009730	319.49	104.22	7.58	70.05	15.32	69.90		0.01474	10.97092247
1480	.009740	320.22	105.40	6.89	70.54	14.16	70.57		0.01475	15.61181355
1481	.009750	316.46	105.11	5.40	71.21	14.41	72.02		0.01476	24.52527237
1482	.009760	314.03	105.26	6.01	70.81	15.51	73.45		0.01477	32.99673843
1483	.009770	314.99	103.70	9.01	69.29	13.77	73.23		0.01478	38.44794464
1484	.009780	319.04	102.74	11.98	68.33	12.40	72.78		0.01479	34.32270813
1485	.009790	320.44	103.04	14.04	69.48	13.70	72.14		0.0148	24.74626732
1486	.009800	317.50	102.45	12.22	70.71	15.76	71.72		0.01481	21.57867432
1487	.009810	312.34	100.45	8.52	70.71	15.24	71.26		0.01482	20.54736519
1488	.009820	311.53	101.86	6.87	69.29	14.21	71.03		0.01483	15.83280849
1489	.009830	312.19	103.63	7.12	68.97	14.38	70.20		0.01484	16.12746811
1490	.009840	314.11	104.37	6.11	69.19	16.15	69.26		0.01485	23.27296829
1491	.009850	314.48	102.74	5.94	68.75	16.10	68.15		0.01486	22.38898849
1492	.009860	315.14	102.89	7.58	67.93	15.07	68.10		0.01487	14.7278347
1493	.009870	313.08	103.48	7.09	68.65	15.00	68.52		0.01488	13.99118519
1494	.009880	311.31	105.03	4.51	68.57	17.53	69.75		0.01489	18.41108131
1495	.009890	311.68	107.77	3.85	67.05	19.00	68.72		0.0149	19.07406616
1496	.009900	311.31	104.66	5.15	65.94	18.19	66.82		0.01491	16.34846306

	AE	AF	AG	AH	AI
1447	16.71678734	11.19191742	17.23244286	11.85490227	20.69469452
1448	19.58972168	10.30793858	13.84385586	14.7278347	20.32637024
1449	17.82176208	8.1716547	14.2858448	14.50683975	17.52710152
1450	15.31715393	5.44605207	18.41108131	9.71861839	16.64312363
1451	15.02249432	6.4773612	19.22139549	9.86594868	15.90647411
1452	15.61181355	7.14034557	18.63207626	13.40186596	16.86411858
1453	13.32820129	8.39264965	16.0538044	15.61181355	16.49579239
1454	11.26558208	7.21401072	17.37977219	13.25453568	16.0538044
1455	10.01327896	8.09799004	18.70574188	12.14956188	16.20113373
1456	10.23427296	9.27662945	20.91568947	13.54919529	17.74809647
1457	10.67626286	10.23427296	24.45160675	23.71495819	18.70574188
1458	10.8972578	7.50867033	35.86967087	37.26930618	17.82176208
1459	9.0556345	5.59338188	46.99308014	43.75181961	16.12746811
1460	6.99301577	5.88804197	40.9525528	28.57684326	15.98013878
1461	6.55102634	8.24532032	20.84202385	7.65600061	15.39081955
1462	7.50867033	6.33003139	14.50683975	2.35212469	17.37977219
1463	6.62469101	2.86777925	21.28401375	11.3392477	19.14773178
1464	4.48840809	-0.07881841	22.16799355	16.20113373	20.47369957
1465	4.26741314	1.32081544	14.43317509	14.13851547	19.29506111
1466	7.80333042	3.16243887	12.37055683	11.92856693	19.73705101
1467	10.67626286	3.82542348	15.31715393	15.75914383	19.36872673
1468	8.09799004	0.36317122	17.08511353	18.63207626	17.96909142
1469	3.82542348	-1.77311206	13.03354073	19.14773178	14.87516499
1470	2.5731194	-0.74180287	8.90830421	17.74809647	15.61181355
1471	3.67809367	2.64678431	7.43500566	19.00040054	18.55841255
1472	5.22505713	3.08877397	10.74992752	17.60076714	22.53631783
1473	4.85673285	3.08877397	12.73888111	15.46448421	22.38898849
1474	4.12008333	2.27845979	14.58050442	13.32820129	18.85307121
1475	3.60442853	2.94144416	15.24348927	13.69652557	16.56945801
1476	5.07772732	1.39448035	15.98013878	13.91752052	18.41108131
1477	5.81437683	1.61547518	13.40186596	15.61181355	16.93778229
1478	5.00406265	1.98379993	13.54919529	14.43317509	14.50683975
1479	3.23610401	1.98379993	14.87516499	13.91752052	14.43317509
1480	2.72044945	-0.29981324	14.58050442	14.7278347	17.23244286
1481	2.64678431	-0.15248336	6.99301577	16.49579239	17.82176208
1482	4.12008333	-1.18379247	4.6357379	14.58050442	17.96909142
1483	5.88804197	-2.21510172	11.04458809	12.37055683	17.67443275
1484	5.15139246	-2.80442119	18.48474693	10.52893353	18.26375198
1485	1.61547518	-0.81546783	17.52710152	12.22322655	15.98013878
1486	0.51050109	-1.47845232	14.80149937	13.84385586	13.99118519
1487	2.72044945	-1.92044199	14.87516499	14.35951042	13.91752052
1488	4.93039751	-2.43609643	18.63207626	12.4442215	17.37977219
1489	3.30976892	-1.62578213	19.44239044	11.41291237	17.45343781
1490	2.4994545	-3.02541614	18.19008636	10.82359314	16.20113373
1491	2.35212469	-3.4674058	18.85307121	12.73888111	13.40186596
1492	2.35212469	-3.5410707	22.90464401	15.02249432	14.65417004
1493	0.51050109	-2.95175099	22.83097839	17.67443275	16.49579239
1494	-0.15248336	-2.80442119	21.21035004	15.09615898	18.26375198
1495	-0.88913274	-3.09908104	20.32637024	12.29689121	18.11642265
1496	-0.81546783	-5.01436949	21.43134499	13.54919529	17.67443275

	AJ	AK	AL	AM	AN
1447	58.74999237	73.22554016	69.82821655	72.48699188	76.47515869
1448	60.96563721	74.62878418	70.41905975	72.1915741	76.47515869
1449	62.59044647	72.7824173	73.07783508	72.1915741	75.14576721
1450	62.59044647	71.30532074	72.48699188	74.11180115	72.56085205
1451	60.15323639	71.00989532	70.640625	74.25951385	73.59481812
1452	58.97155762	71.7484436	68.9419632	74.77649689	75.36733246
1453	60.07938004	72.11772156	71.15760803	73.66867065	75.88431549
1454	61.26105881	72.1915741	71.89615631	72.85626984	73.8902359
1455	60.52251053	71.08375549	71.52687836	71.30532074	72.7824173
1456	61.18720245	70.27134705	68.79425049	71.89615631	71.23146057
1457	62.8120079	70.27134705	70.27134705	71.15760803	71.7484436
1458	62.59044647	71.82230377	71.89615631	71.23146057	71.89615631
1459	58.82384872	73.96408844	71.45302582	70.27134705	73.00397491
1460	56.31278229	74.70263672	68.64654541	68.72039795	73.8902359
1461	56.82976532	72.70855713	69.82821655	66.43090057	75.95817566
1462	58.74999237	71.00989532	70.640625	66.8001709	76.99214172
1463	58.45457458	70.49291229	70.27134705	67.61257172	78.98622131
1464	58.01144409	71.45302582	67.83413696	68.12955475	79.94633484
1465	58.60228348	71.67459106	67.68643188	67.61257172	80.9803009
1466	59.78396225	70.78833008	67.46486664	68.57268524	81.05415344
1467	59.48854065	71.00989532	66.87402344	69.45894623	83.19594574
1468	59.78396225	72.63470459	66.13547516	71.08375549	84.15605927
1469	59.34083176	72.70855713	66.20933533	71.89615631	84.00835419
1470	58.82384872	71.08375549	66.28318787	73.66867065	81.12801361
1471	59.11926651	70.93604279	67.31715393	73.81638336	79.72476959
1472	60.37479782	73.15168762	66.94788361	75.81046295	77.28755951
1473	60.30094528	74.11180115	66.87402344	78.98622131	75.81046295
1474	59.63624954	73.66867065	68.05570221	82.23583221	74.62878418
1475	60.22708893	73.81638336	70.93604279	81.20186615	75.73661041
1476	61.03949356	75.441185	71.30532074	80.16790009	75.14576721
1477	60.81792831	76.17973328	73.15168762	78.83850861	75.73661041
1478	60.81792831	76.77057648	74.03794861	80.16790009	76.17973328
1479	63.03357315	77.06599426	73.52096558	79.79862213	78.76465607
1480	65.98777008	76.62286377	69.82821655	80.46331787	80.75873566
1481	64.95379639	73.59481812	69.31123352	81.5711441	80.38946533
1482	63.1074295	71.45302582	70.41905975	83.71292877	77.80454254
1483	63.55055618	71.82230377	73.07783508	82.82667542	78.02610779
1484	65.39692688	74.11180115	72.63470459	80.75873566	79.20778656
1485	64.95379639	73.81638336	73.37325287	79.42935181	80.31560516
1486	62.73815536	71.30532074	73.81638336	80.83259583	77.36141205
1487	63.47670364	69.08966827	74.33336639	79.57705688	75.14576721
1488	65.98777008	69.45894623	72.11772156	77.36141205	73.37325287
1489	65.54463959	69.08966827	71.60073853	75.441185	73.8902359
1490	63.2551384	69.53279877	71.00989532	74.85034943	74.55493164
1491	63.99368668	71.23146057	70.71447754	73.15168762	75.73661041
1492	64.80609131	72.26542664	68.64654541	72.63470459	75.73661041
1493	62.8120079	70.56676483	67.76028442	70.78833008	75.51504517
1494	60.74407196	69.38509369	67.68643188	70.78833008	72.7824173
1495	62.95972061	68.27726746	68.4988327	72.11772156	71.67459106
1496	66.57860565	68.20341492	67.16944885	73.81638336	73.37325287

	AO	AP	AQ	AR	AS
1447	65.98777008	314.9179688	103.1871338	13.67197037	16.59401321
1448	63.03357315	314.6969605	103.4086914	14.31040001	16.29935455
1449	58.60228348	311.5293884	106.8798752	11.5602417	15.43992901
1450	58.30686188	306.151825	109.3909378	8.68730927	14.92427444
1451	58.89770126	302.6159058	112.0497131	9.27662849	14.99793911
1452	59.93167114	304.1628723	120.6168747	11.33924675	16.29935455
1453	59.48854065	308.3617859	123.3495026	11.90401173	16.05380249
1454	57.49446106	310.6453857	111.1634522	10.65170765	15.56270409
1455	55.7219429	306.7411499	94.32454681	9.57128906	15.68547916
1456	56.53434753	304.5312195	92.99516296	9.3011837	17.40432739
1457	58.01144409	305.2678528	100.8976288	9.62039852	22.29076958
1458	58.60228348	309.2457581	106.1413269	9.20296383	30.32024574
1459	59.34083176	310.7927246	103.7041168	8.36809444	35.62412262
1460	61.92575073	312.2660217	101.119194	7.70511007	28.50317764
1461	61.48262024	315.3599548	102.005455	7.72966528	14.62961483
1462	60.67021942	318.4538879	103.9995346	7.38589573	11.41291237
1463	61.26105881	318.1592102	103.1871338	6.45280647	17.25699806
1464	63.99368668	316.7595825	104.885788	5.29872227	19.61427498
1465	63.62441254	315.8756104	114.0437927	5.44605207	15.95558357
1466	63.47670364	318.2328796	125.4174423	7.43500566	14.67872524
1467	62.73815536	319.1168823	118.6227951	8.78552914	16.81500816
1468	62.29502487	319.9271851	104.2210999	6.74746609	17.8954277
1469	60.81792831	319.5588684	98.75583649	3.92364335	15.68547916
1470	60.81792831	318.3065491	99.93751526	3.60442853	14.08940506
1471	59.78396225	316.5386047	98.68198395	5.74071217	14.99794006
1472	61.1133461	314.5496521	96.7617569	7.23856544	16.96233749
1473	62.14731598	316.1702576	98.31271362	6.96846104	16.86411858
1474	61.85189819	317.7908936	99.56824493	5.66704702	15.58725929
1475	59.48854065	317.4962463	100.6760635	5.47060728	15.1698246
1476	57.71602631	318.3802185	103.1871338	6.33003139	16.1029129
1477	55.13110352	319.485199	104.2210999	7.58233547	15.31715393
1478	55.35266876	320.2218323	105.4027786	6.89479589	14.16306973
1479	57.49446106	316.4649353	105.1073532	5.39694214	14.40861988
1480	59.11926651	314.0339966	105.2550659	6.01081657	15.51359367
1481	57.71602631	314.9916382	103.7041168	9.00652409	13.77019024
1482	56.82976532	319.0432129	102.7440033	11.97767639	12.39511108
1483	55.57423401	320.4428406	103.0394211	14.04029465	13.69652557
1484	55.20495987	317.4962463	102.4485855	12.22322655	15.75914383
1485	54.0232811	312.3396912	100.4544983	8.51542473	15.24348927
1486	54.90954208	311.5293884	101.8577423	6.87024117	14.21218014
1487	55.86965179	312.1923523	103.6302567	7.11579084	14.38406563
1488	57.05133057	314.107666	104.3688049	6.10903645	16.15202332
1489	55.13110352	314.4759827	102.7440033	5.93715143	16.1029129
1490	54.90954208	315.1389465	102.8917084	7.58233547	15.07160473
1491	56.68205643	313.076355	103.4825516	7.09123564	14.99793911
1492	60.89178467	311.3083801	105.0335007	4.51296282	17.52710342
1493	59.85781479	311.6766968	107.7661285	3.84997845	19.00040054
1494	56.90362167	311.3083801	104.6642304	5.15139246	18.19008636
1495	55.35266876	309.0984497	91.88733673	5.02861738	16.91322708
1496	58.15915298	309.2457581	85.46196747	3.50620866	17.55165863

	AT	AU
1447	67.26791382	71.64997101
1448	68.67115784	70.56677246
1449	69.48356628	68.64654541
1450	68.79425049	68.32650757
1451	67.26792145	68.91734314
1452	66.5539856	70.02516937
1453	67.78490448	69.68051147
1454	68.44960022	68.08032227
1455	67.71104431	66.60322571
1456	66.75093079	66.5539856
1457	67.78489685	66.97249603
1458	68.76963806	67.24330139
1459	68.08032227	67.53871918
1460	66.5539856	68.17879486
1461	66.455513	67.95722961
1462	66.8001709	68.1541748
1463	66.40628052	69.28662109
1464	65.76620483	70.68985748
1465	65.98777008	70.7390976
1466	66.01239014	71.03451538
1467	65.79081726	71.79768372
1468	66.18471527	72.51161194
1469	66.08624268	72.24081421
1470	65.39692688	71.87153625
1471	65.79081726	71.10836792
1472	66.82479095	71.40379333
1473	67.09558868	72.31466675
1474	67.12020874	72.90550232
1475	68.32650757	72.14234161
1476	69.26200104	71.00989532
1477	70.0497818	69.90207672
1478	70.5421524	70.56676483
1479	71.20684814	72.01924896
1480	70.81295013	73.44710541
1481	69.28661346	73.22554779
1482	68.32650757	72.78240967
1483	69.48356628	72.14234161
1484	70.71447754	71.72383118
1485	70.71447754	71.25608063
1486	69.28662109	71.03451538
1487	68.96658325	70.19749451
1488	69.1881485	69.26200104
1489	68.74501801	68.1541748
1490	67.93260956	68.10494232
1491	68.64654541	68.52345276
1492	68.57268524	69.75436401
1493	67.0463562	68.72039795
1494	65.93852997	66.82479095
1495	66.57860565	66.38166046
1496	67.31715393	68.44960022

	A	B	C	D	E	F	G	H	I	J	K
1497								.009910	19.07	62.96	-.89
1498								.009920	16.35	66.58	-.82
1499								.009930	14.95	66.95	.44
1500								.009940	14.06	64.14	4.19
1501								.009950	17.23	62.74	5.45
1502								.009960	29.90	64.36	4.71
1503								.009970	37.27	66.87	4.56
1504								.009980	21.80	67.10	5.59
1505								.009990	4.27	65.91	4.86
1506								.010000	15.91	57.05	11.93
1507								.010010	15.02	55.65	11.04
1508								.010020			
1509								.010030			
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1544								.010380			
1545								.010390			
1546								.010400			

	L	M	N	O	P	Q	R	S	T
1497	68.28	-3.10	68.50	20.33	72.12	12.30	71.67	18.12	55.35
1498	68.20	-5.01	67.17	21.43	73.82	13.55	73.37	17.67	58.16
1499	70.12	-5.09	66.80	18.34	71.53	17.75	77.36	14.65	58.60
1500	71.97	-4.28	67.39	16.72	70.57	17.38	77.44	12.37	57.64
1501	69.53	-3.61	68.72	19.07	71.75	16.13	76.40	12.08	57.49
1502	66.80	-7.37	67.76	24.01	74.63	16.05	75.81	14.58	58.75
1503	67.61	-8.48	67.91	24.38	75.29	15.76	78.40	15.61	58.16
1504	69.90	-5.01	68.72	23.27	75.81	11.93	79.95	15.91	57.05
1505	70.42	-.30	71.53	22.32	75.15	11.04	81.05	15.02	55.65
1506	79.95	23.27	75.81	-5.01	68.72	5.59	69.90	21.80	67.10
1507	81.05	22.32	75.15	-.30	71.53	4.86	70.42	4.27	65.91
1508									
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	U	V	W	X	Y	Z	AA	AB	AC	AD
1497	.009910	309.10	91.89	5.03	66.58	16.91	66.38		0.01492	14.94882965
1498	.009920	309.25	85.46	3.51	67.32	17.55	68.45		0.01493	14.06484985
1499	.009930	310.57	94.18	3.43	67.96	16.91	69.16		0.01494	17.23244286
1500	.009940	312.34	105.99	4.66	67.83	15.49	68.55		0.01495	29.90281296
1501	.009950	310.57	104.96	6.35	67.00	15.76	68.55		0.01496	37.26930618
1502	.009960	308.36	101.86	9.08	66.31	18.21	69.73		0.01497	21.79966927
1503	.009970	306.81	106.44	11.12	67.46	18.58	70.62		0.01498	4.26741314
1504	.009980	306.00	115.52	7.46	68.57	17.04	70.94		0.01497	15.90647411
1505	.009990	308.51	119.21	2.94	69.29	16.13	70.62		0.01498	15.02249432
1506	.010000	306.00	115.52							
1507	.010010	308.51	119.21							
1508	.010020									
1509	.010030									
1510	.010040									
1511	.010050									
1512	.010060									
1513	.010070									
1514	.010080									
1515	.010090									
1516	.010100									
1517	.010110									
1518	.010120									
1519	.010130									
1520	.010140									
1521	.010150									
1522	.010160									
1523	.010170									
1524	.010180									
1525	.010190									
1526	.010200									
1527	.010210									
1528	.010220									
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1530	.010240									
1531	.010250									
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1533	.010270									
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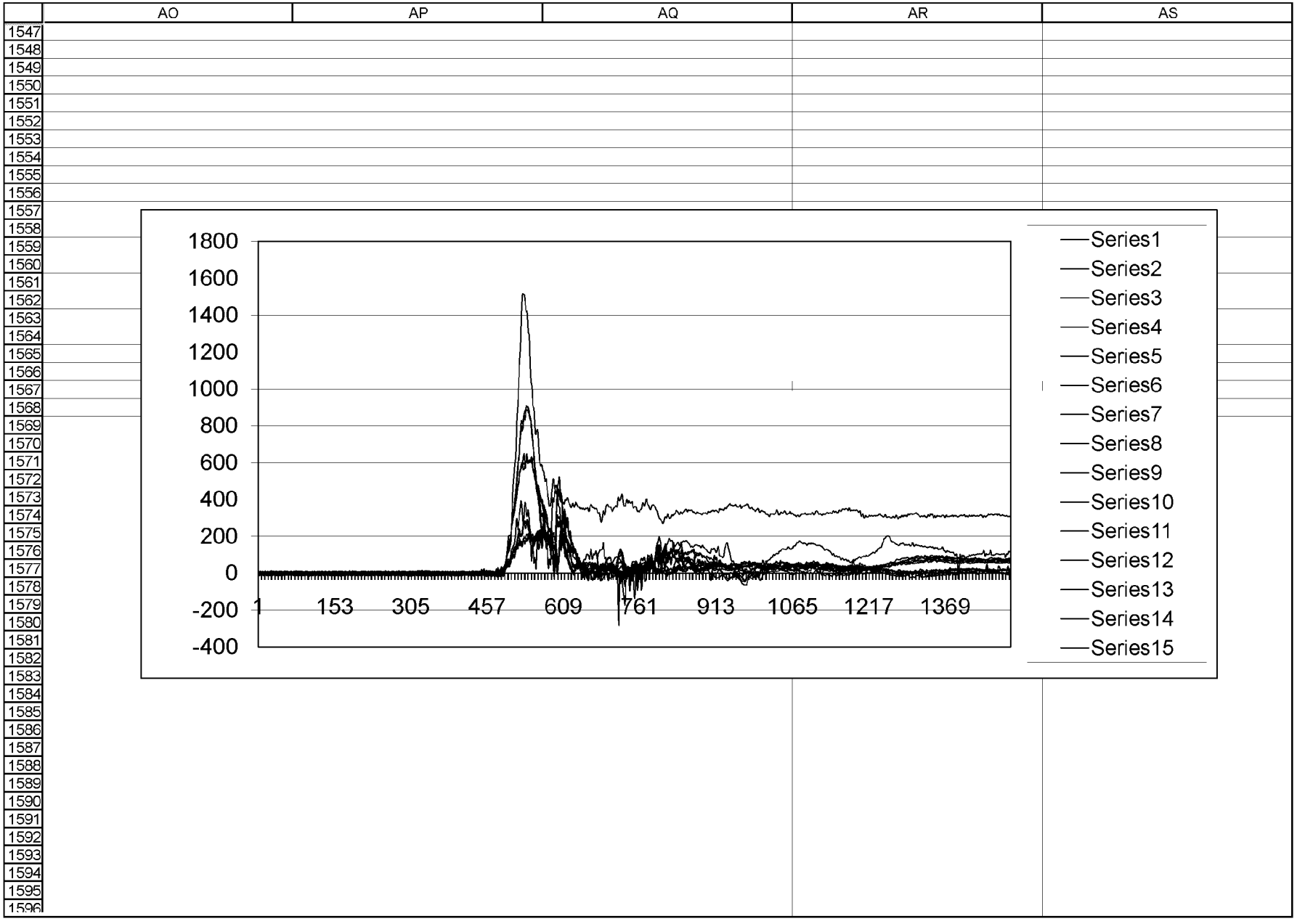
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	A	B	C	D	E	F	G	H	I	J	K
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	U	V	W	X	Y	Z	AA	AB	AC	AD
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1941	.014350									
1942	.014360									
1943	.014370									
1944	.014380									
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	A	B	C	D	E	F	G	H	I	J	K
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	U	V	W	X	Y	Z	AA	AB	AC	AD
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1950	.014440									
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1994	.014880									
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	A	B	C	D	E	F	G	H	I	J	K
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1998								.014920			
1999								.014930			
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2001								.014950			
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2003								.014970			
2004								.014980			
2005								.014970			
2006								.014980			

	U	V	W	X	Y	Z	AA	AB	AC	AD
1997	.014910									
1998	.014920									
1999	.014930									
2000	.014940									
2001	.014950									
2002	.014960									
2003	.014970									
2004	.014980									
2005	.014970									
2006	.014980									

- Any questions should be directed to James Urbon. If any clarification is required, please ask don't assume.
- Record all test progress and data on a Daily Log Sheet and in this TLW.
- Label rifles (All)
    - Label with the standard information; serial number, model number, TLW number, and Test ID number
    - Label the 300 Win Mag rifles with ID #'s A1, A2, etc.
    - Label the 30-06 rifles with ID #'s B1, B2, etc.
    - Label the 243 Win Youth rifles with ID #'s C1, C2, etc.
- Initial Measurement and Inspection. (All)
    - Generally visually inspect the overall condition of all of the rifles. Note and photograph any anomalies.
    - Measure the trigger pull on all of the rifles using the Dvorak.
    - Perform a safety function test on all of the rifles.
    - Measure the depth of the front take down screw hole located in the barrel on all of the rifles.
    - For rifles A1 – A3, B1 – B3, and C1 – C3, Measure the chamber dimension via chamber cast. Measure the bore and groove dimensions using best method available. Measure twist rate using best method available.
- Head Space / Proof / Head Space (All)
    - Measure and record headspace using chamber shoulder head space gauges.
    - Fire one standard proof cartridge per rifle in controlled environment via lanyard.
    - Measure and record headspace using chamber shoulder head space gauges following proof test.
- Extended Proof (A7)
    - Fire 100 standard proof cartridges in rifle A7.
    - Measure and record the head space using chamber shoulder head space gauges after every round for the first 10 rounds, then after every 5 rounds until round level 50 and then after every 10 rounds until the end of the test.
- Hi-Pressure:
    - Shoot 3 rds @ 60gr / 65gr & 1 @ 70gr > determine final load @ 120kpsi. >1 Aug 07
    - Fire 1 @ 71.5gr (120kpsi) 2 Aug 07 fired round. Gun: 300WM / A9 - 71378962
    - Video loc: Etownadc1/HighSpeedVideo/Tlw2305

- Accuracy (A1-6, B1-6, C1-6)
    - Clean and inspect each rifle prior to testing.
    - Shoot at a minimum five shoot to sight in and foul the rifle. Fire additional shots if required to sight in the rifle. Record the exact number of rounds fired.
    - Fire 3 five shot groups for each rifle at 100 yards.
    - Keep track of and mark the placement of each shot in each group. Number the shots in each group 1 – 5 in the order in which they were fired.
    - Measure and record the three shot group size in each group using shots 1 – 3.
    - Measure and record the five shot group size in each group using all five shots fired.
    - All groups are to be measured center to center.
    - Clean and inspect each rifle after completion of testing.
- Endurance (A1-6, B1-6, C1-6)
    - In each series, the guns are to be fired to the following round levels.
        - Guns 1 & 2 to 2000 RL.
        - Guns 3 & 4 to 1000 RL.
        - Guns 5 & 6 to 500 RL.
    - All guns are to be cooled to the touch every 20 rounds via shop air.
    - All guns are to be cleaned and inspected every 500 rounds.
- Metallurgical Evaluation
    - A sample of the endurance guns will be disassembled and have there barrels sectioned and mounted to check for possible barrel cracking and locking lug hardness.
- Environmental Testing (A8, B8)
    - Perform standard Hot test..
    - Perform standard Cold test.
    - Perform standard Thermal Cycle test.
- Dry Cycle (B7)
    - Dry cycle gun 10,000 cycles.
    - Lubricate gun every 500 cycles.
    - Photograph any where every 1000 cycles.
- High Pressure Abuse (A9)
    - Perform standard high pressure abuse test.
        - See S. Franz / J. Urbon for details.

Engineer: James Urbon **Project #:** 241230 **TLW #:** 2359

Date Submitted: 8/29/2007 **Requested Completion Date:** 9/21/2007

Test Description: T&P follow up testing on 270 Win and 7mm Rem Mag M/770 Stainless Steel Rifles.

Test Procedure:

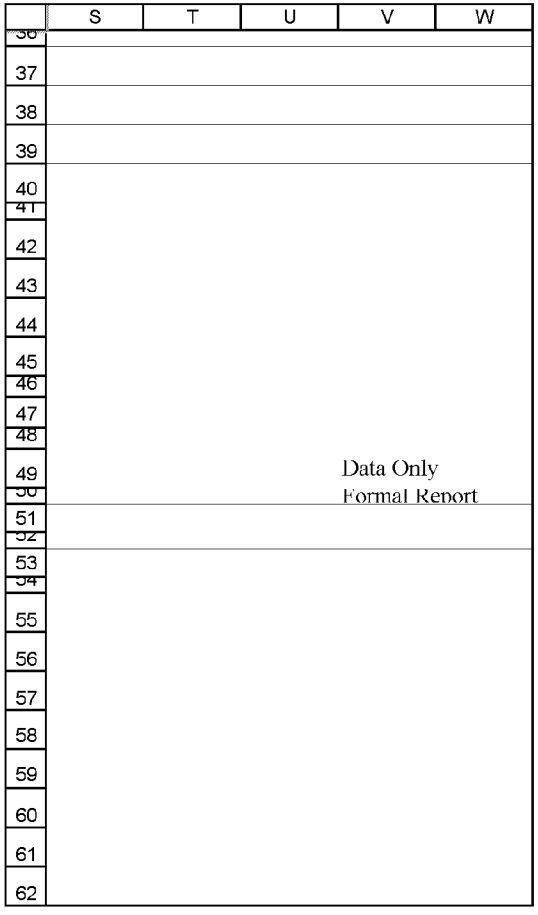
- Any questions should be directed to James Urbon. If any clarification is required, please ask don't assume.
- Record all test progress and data on a Daily Log Sheet and in this TLW.
- Label rifles (All)
  - Label with the standard information; serial number, model number, TLW number, and Test ID number
  - Label the 7mm Rem Mag rifles with ID #'s D1, D2, etc.
  - Label the 270 Win. rifles with ID #'s E1, E2, etc.
- Initial Measurement and Inspection. (All)
  - Generally visually inspect the overall condition of all of the rifles. Note and photograph any anomalies.
  - Measure the trigger pull on all of the rifles using the Spring Scale.
  - Perform a safety function test on all of the rifles.
- Head Space / Proof / Head Space (All)
  - Measure and record headspace using chamber shoulder head space gauges.
  - Fire one standard proof cartridge per rifle in controlled environment via lanyard.
  - Measure and record headspace using chamber shoulder head space gauges following proof test.
- Accuracy (D1-5, E1-5)
  - Clean and inspect each rifle prior to testing.
  - Shoot at a minimum five shoot to sight in and foul the rifle. Fire additional shots if required to sight in the rifle. Record the exact number of rounds fired.
  - Fire 3 five shot groups for each rifle at 100 yards.
  - Keep track of and mark the placement of each shot in each group. Number the shots in each group 1 – 5 in the order in which they were fired.
  - Measure and record the three shot group size in each group using shots 1 – 3.
  - Measure and record the five shot group size in each group using all five shots fired.
  - All groups are to be measured center to center.
  - Clean and inspect each rifle after completion of testing.

Special Requirements:	
Supplies Availability:	
Results Required:	Formal Report

********This section to be completed by Test Lab Manager*******

Assigned To:	Lee, Bob	**Start Date:**	9/4/2007
Assigned Date:	8/30/2007	**Completion Date:**	9/10/2007

Comments: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Formal Report

- Endurance (D1-5, E1-5)
  - In each series, the guns are to be fired to the following round levels.
    - Gun 1 to 1000 RL.
    - Gun 2 to 500 RL.
    - Guns 3, 4, & 5 to 100 RL.
  - All guns are to be cooled to the touch every 20 rounds via shop air.
  - All guns are to be cleaned and inspected every 500 rounds.
- Metallurgical Evaluation
  - A sample of the endurance guns will be disassembled and have there barrels sectioned and mounted to check for possible barrel cracking and locking lug hardness.

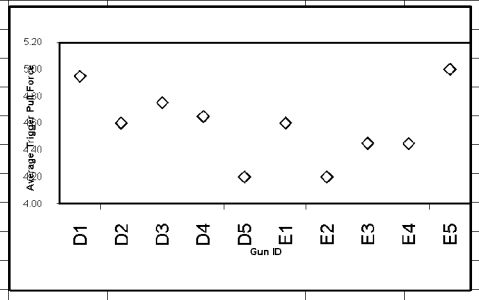
Model 770 Stainless Steel T&P Follow up Testing Summary										
Caliber	7mm Rem Mag					270 Win				
Serial #										
Test Discription \ Gun ID #	D1	D2	D3	D4	D5	E1	E2	E3	E4	E5
Visual Inspection	O	O	O	O	O	O	O	O	O	O
Trigger Pull	O	O	O	O	O	O	O	O	O	O
Safety Function	O	O	O	O	O	O	O	O	O	O
HS - Proof - HS	O	O	O	O	O	O	O	O	O	O
Accuracy	O	O	O	O	O	O	O	O	O	O
Endurance to 100 RL	O	O	O	O	O	O	O	O	O	O
Endurance to 500 RL	O	O				O	O			
Endurance to 1000 RL	O					O				
Metallurgical Evaulation of Barrel	O					O				
Final Round Level										

LEGEND

O = Planned	O = Completed Failed
O = In-Progress	Ø = Cancelled
O = Completed & Passed	= Not Planned

	A	B	C	D	E	F
1						
2						
3		Gun ID	Serial #	Cal	Visual Inspection	Safety Fcn Check
4		D1	71380501	7mm Rem Mag	GOOD	GOOD
5		D2	71384667	7mm Rem Mag	GOOD	GOOD
6		D3	71384729	7mm Rem Mag	GOOD	GOOD
7		D4	71385284	7mm Rem Mag	GOOD	GOOD
8		D5	71385225	7mm Rem Mag	GOOD	GOOD
9		E1	71390508	270 Win	GOOD	GOOD
10		E2	71384790	270 Win	GOOD	GOOD
11		E3	71384941	270 Win	GOOD	GOOD
12		E4	71385409	270 Win	GOOD	GOOD
13		E5	71386441	270 Win	GOOD	GOOD

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1																					
2																					
3																					
4					Trigger Pull																
5				Gun ID	#1	#2	#3	#4	#5	Avg											
6				D1	5	5	5	4.75	5	4.95											
7				D2	4.5	4.5	4.75	4.5	4.75	4.60											
8				D3	4.76	4.75	4.5	5	4.75	4.75											
9				D4	4.5	4.75	4.75	4.75	4.5	4.65											
10				D5	4	4.25	4	4.5	4.25	4.20											
11				E1	4.75	4.75	4.5	4.5	4.5	4.60											
12				E2	4.25	4.25	4.25	4.25	4	4.20											
13				E3	4.25	4.5	4.25	4.5	4.75	4.45											
14				E4	4	4.75	4.25	4.5	4.75	4.45											
15				E5	5	5	5	5	5	5.00											
16										4.59											



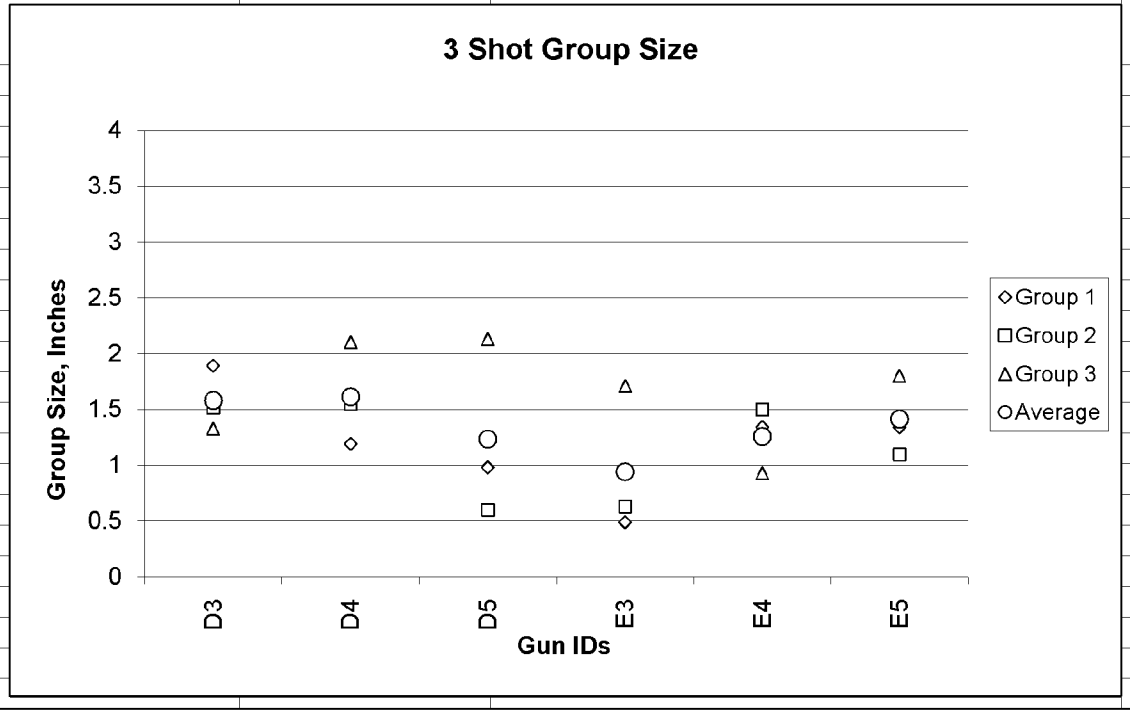
	Gun ID	Cal	Head Space before Proof	Head Space after Proof	Head Space Growth	Condition of Proof Case	
4	D1	7mm Rem Mag	0.002	0.002	0	GOOD	hard closing with rd in chamber
5	D2	7mm Rem Mag	0.002	0.003	0.001	GOOD	
6	D3	7mm Rem Mag	0.003	0.004	0.001	GOOD	
7	D4	7mm Rem Mag	0.002	0.002	0	GOOD	
8	D5	7mm Rem Mag	0.002	0.003	0.001	GOOD	
9	E1	270 Win	0.002	0.002	0	GOOD	
10	E2	270 Win	0.001	0.002	0.001	GOOD	
11	E3	270 Win	0.003	0.003	0	GOOD	
12	E4	270 Win	0.002	0.004	0.002	GOOD	
13	E5	270 Win	0.003	0.003	0	GOOD	

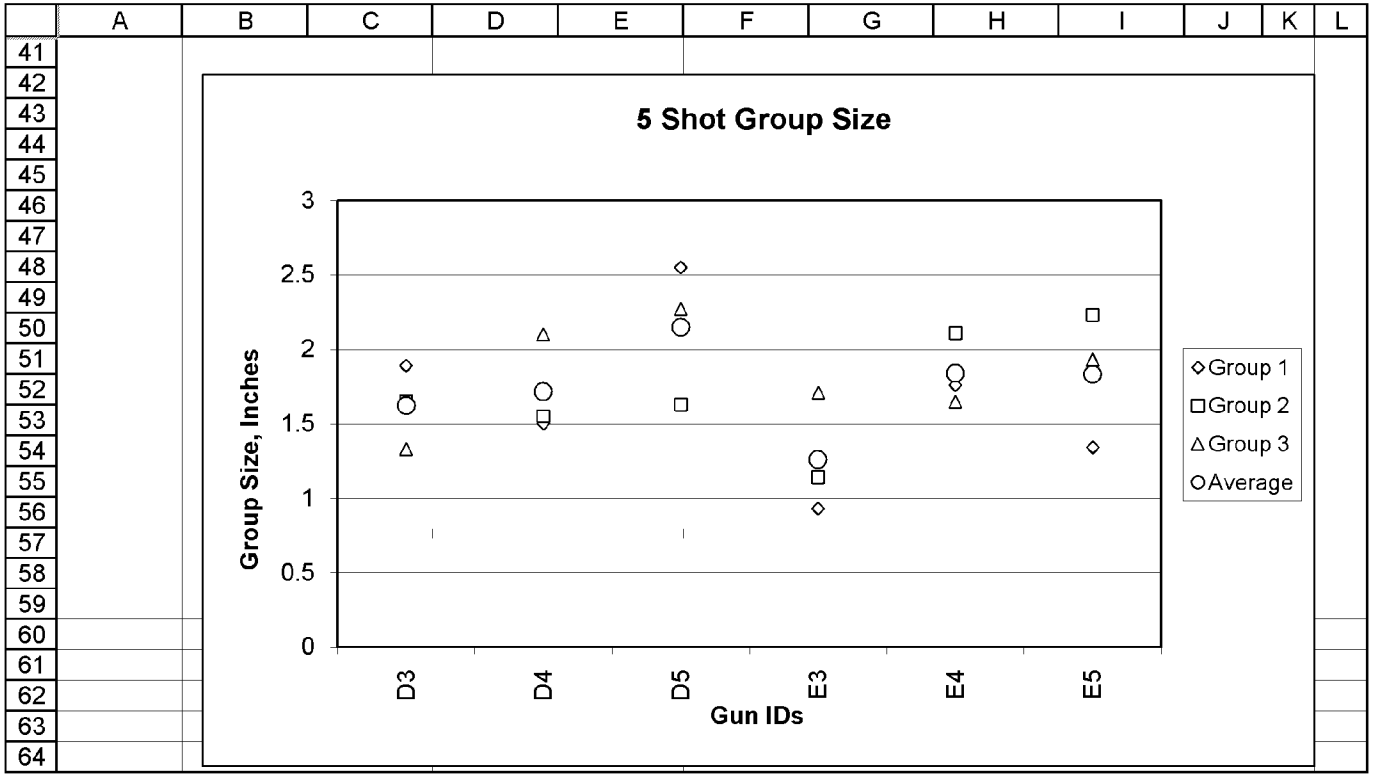
Shooter:

Note: Shoot accuracy at 100yds. From bench, utilizing standard 3 X 9 Bushnell scope provided with firearm

Ammo type. 270 Win 130 PSP CL R270W2 C20-VAI
7mm Rem Mag 150 PSP CL R7mmm2 C13-VB1

	3 shot groups				5 shot groups			
	Group 1	Group 2	Group 3	Average	Group 1	Group 2	Group 3	Average
D3	1.89	1.52	1.33	1.58	1.89	1.65	1.33	1.62
D4	1.19	1.55	2.1	1.61	1.5	1.55	2.1	1.72
D5	0.98	0.6	2.13	1.24	2.55	1.63	2.27	2.15
E3	0.49	0.63	1.71	0.94	0.93	1.14	1.71	1.26
E4	1.34	1.5	0.93	1.26	1.76	2.11	1.65	1.84
E5	1.34	1.1	1.8	1.41	1.34	2.23	1.93	1.83
				1.34				1.74




5 Shot Group Size
Group Size, Inches
3
2.5
2
1.5
1
0.5
0
D3
D4
D5
E3
E4
E5
Gun IDs
Group 1
Group 2
Group 3
Average

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1																					
2																					
3																					
4		Clean and Inspect Summary																			
5			D1	D2	D3	D4	D5	E1	E2	E3	E4	E5									
6		Before Test																			
7		100 RL																			
8		500 RL																			
9		1000 RO																			
10																					
11																					
12																					
13		Malfunction Summary																			
14			D1	D2	D3	D4	D5	E1	E2	E3	E4	E5	bolt locking lug was hitting front of follower								
15		100 RL	0	0	0	0	0	0	0	0	0	0	made chamfer on followers - D1,D2, E1,E2								
16		500 RL	0	0				0	0				corrected the problem								
17		1000 RO	0					0													

	A	B	C	D	E	F	G	H	I	J	K
1		PROJECT: 241230					M/770 STAINLESS STEEL				
2		TLW: 2359									
3				7MM REM MAG		Test Gun ID			.270 Win		
4	Round Level	D1	D2	D3	D4	D5	E1	E2	E3	E4	E5
5	1										
6	2										
7	3										
8	4										
9	5										
10	6										
11	7										
12	8										
13	9										
14	10										
15	11										
16	12										
17	13										
18	14										
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29	25										
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34	30										
35	31										
36	32										
37	33										
38	34										

	A	B	C	D	E	F	G	H	I	J	K
39	35										
40	36										
41	37										
42	38										
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45	41										
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74	70										
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76	72										
77	73										

	A	B	C	D	E	F	G	H	I	J	K
78	74										
79	75										
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84	80										
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99	95										
100	96										
101	97										
102	98										
103	99										
104	100										

	A	B	C	D	E
1					
2		7MM R M		.270 WIN	
3		Test Gun ID			
4	Round Level	D1	D2	E1	E2
5	101				
6	102				
7	103				
8	104				
9	105				
10	106				
11	107				
12	108				
13	109				
14	110				
15	111				
16	112				
17	113				
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28	124				
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34	130				
35	131				
36	132				
37	133				
38	134				

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42	138				
43	139				
44	140				
45	141				
46	142				
47	143				
48	144				
49	145				
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77	173				

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155	251				

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307	403				
308	404				
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311	407				

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389	485				

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398	494				
399	495				
400	496				
401	497				
402	498				
403	499				
404	500				

	A	B	C
1			
2		**7MM RM**	**.270 WIN**
3		**Test Gun ID**	
4	Round Level	**D1**	**E1**
5	501		
6	502		
7	503		
8	504		
9	505		
10	506		
11	507		
12	508		
13	509		
14	510		
15	511		
16	512		
17	513		
18	514		
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32	528		
33	529		
34	530		
35	531		
36	532		
37	533		
38	534		

	A	B	C
39	535		
40	536		
41	537		
42	538		
43	539		
44	540		
45	541		
46	542		
47	543		
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70	566		
71	567		
72	568		
73	569		
74	570		
75	571		
76	572		
77	573		

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79	575		
80	576		
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114	610		
115	611		
116	612		

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123	619		
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153	649		
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155	651		

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255	751		
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267	763		
268	764		
269	765		
270	766		
271	767		
272	768		

	A	B	C
273	769		
274	770		
275	771		
276	772		
277	773		
278	774		
279	775		
280	776		
281	777		
282	778		
283	779		
284	780		
285	781		
286	782		
287	783		
288	784		
289	785		
290	786		
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294	790		
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318	814		
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330	826		
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350	846		

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355	851		
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475	971		
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495	991		
496	992		
497	993		
498	994		
499	995		
500	996		
501	997		
502	998		
503	999		
504	1000		

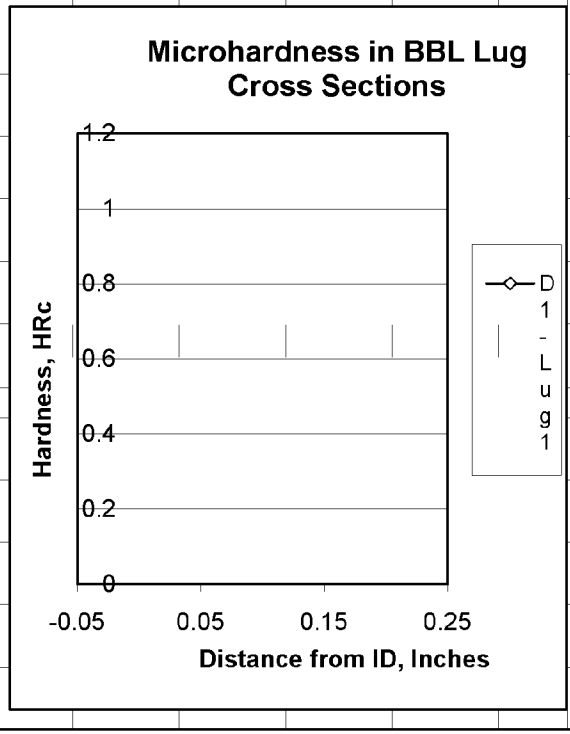
Microhardness

D1

	D1 - Lug 1		D1 - Lug 2		D1 - Lug 3	
	HRc	HV	HRc	HV	HRc	HV
0.01						
0.045						
0.085						
0.125						
0.165						
0.205						
0.24						

E1

	E1 - Lug 1		E1 - Lug 2		E1 - Lug 3	
	HRc	HV	HRc	HV	HRc	HV
0.01						
0.045						
0.085						
0.125						
0.165						
0.205						
0.24						



- Endurance (D1-5, E1-5)
    - In each series, the guns are to be fired to the following round levels.
        - Gun 1 to 1000 RL.
        - Gun 2 to 500 RL.
        - Guns 3, 4, & 5 to 100 RL.
    - All guns are to be cooled to the touch every 20 rounds via shop air.
    - All guns are to be cleaned and inspected every 500 rounds.
- Metallurgical Evaluation
    - A sample of the endurance guns will be disassembled and have there barrels sectioned and mounted to check for possible barrel cracking and locking lug hardness.

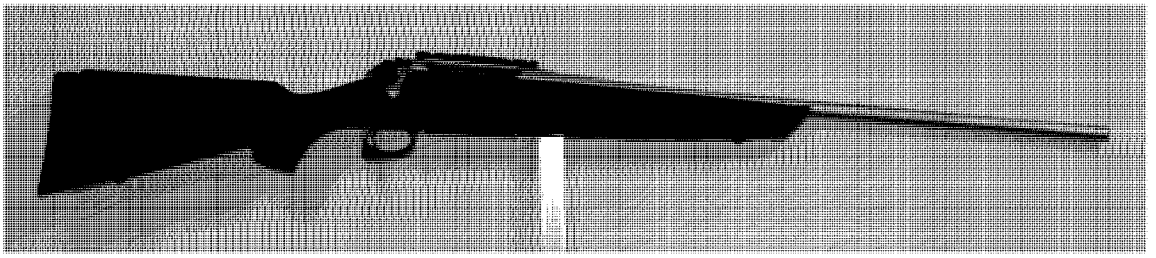
- Any questions should be directed to James Urbon. If any clarification is required, please ask don't assume.
- Record all test progress and data on a Daily Log Sheet and in this TLW.
- Label rifles (All)
    - Label with the standard information; serial number, model number, TLW number, and Test ID number
    - Label the 7mm Rem Mag rifles with ID #'s D1, D2, etc.
    - Label the 270 Win. rifles with ID #'s E1, E2, etc.
- Initial Measurement and Inspection. (All)
    - Generally visually inspect the overall condition of all of the rifles. Note and photograph any anomalies.
    - Measure the trigger pull on all of the rifles using the Spring Scale.
    - Perform a safety function test on all of the rifles.
- Head Space / Proof / Head Space (All)
    - Measure and record headspace using chamber shoulder head space gauges.
    - Fire one standard proof cartridge per rifle in controlled environment via lanyard.
    - Measure and record headspace using chamber shoulder head space gauges following proof test.
- Accuracy (D1-5, E1-5)
    - Clean and inspect each rifle prior to testing.
    - Shoot at a minimum five shoot to sight in and foul the rifle. Fire additional shots if required to sight in the rifle. Record the exact number of rounds fired.
    - Fire 3 five shot groups for each rifle at 100 yards.
    - Keep track of and mark the placement of each shot in each group. Number the shots in each group 1 – 5 in the order in which they were fired.
    - Measure and record the three shot group size in each group using shots 1 – 3.
    - Measure and record the five shot group size in each group using all five shots fired.
    - All groups are to be measured center to center.
    - Clean and inspect each rifle after completion of testing.

TRIAL AND PILOT TEST REPORT

Model 770 Stainless Steel
Bolt Action Rifle

TLW 2305
300 Win Mag
30-06 Sprg
243 Win Youth

TLW 2359
7mm Rem Mag
270 Win



Written by:
James E. Urbon

November 2007

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KINZER V. REMINGTON
R 2195370

INTRODUCTION

The testing for this Trial and Pilot (T&P) test was selected to evaluate the changes made to the M/770 to create the stainless steel version. The T&P test was conducted in two rounds, an initial thorough investigation of three calibers and a follow up confirmation of two additional calibers. TLW 2305 covers the initial testing of the M770 SS. It consisted of A series (300 Win Mag), B series (30-06 Sprg), and C series (243 Win Youth) rifles. TLW 2359 covers the follow up testing and consisted of on the D series (7mm Rem Mag) and E Series (270 Win).

RESULTS SUMMARY

The M770 Stainless Steel bolt action rifle tested in this Trial and Pilot (T&P) test represents a line extension to the current M770 rifle. The M770 rifle is an established tested current product. The stainless steel version of the M770 test replaces the standard carbon steel barrel with a stainless steel barrel. The barrel on the M770 contains the locking lugs which engage the bolt head. The barrel end containing these locking lugs is induction hardened. This stainless steel barrel requires a different set of parameters to induction harden the locking lugs in the barrel. Additionally, the receiver and bolt body were plated with Electroless Nickel for cosmetic reasons. In all other aspects the stainless steel version in the same as the standard carbon steel rifle. Table 1 summarizes the test matrix performed in this T&P test along with the results, which supports the conclusion that all M770 SS variants passed and are recommended for full scale production.

| Model 770 Stainless Steel Trial and Pilot Testing Summary | | |

metallurgical evaluation of the barrel showed no sign of stress induced cracking. Dry cycle testing and environmental testing also passed. Finally, high pressure abuse testing in which one rifle was subjected to a 120,000 psi abuse load was successfully passed. The barrel did take a permanent deformation set, but gun remained intact and did not come apart. In conclusion, all of the rifles functioned well and no safety issues were discovered. The Test and Measurement organization within the Elizabethtown Research and Development facility formally supports exit from Trial and Pilot testing of the M770 stainless steel rifle.

PROCEDURE & DETAILED RESULTS

Visual Inspection

Upon receipt, all of the rifles were given a thorough visual inspection. In general, the rifles looked very good. No visible mars were seen on any of the rifles. The electroless nickel plating on the receiver and bolt body looked good with no flaws observed. All of the rifles were hand cycled and most of the rifles cycled as expected for M770 actions. However, rifles, B10, C7, and D1 were more difficult to close. Upon closer inspection of gun C7 it was discovered that the firing pin assembly had an old vintage firing pin head. The shorter camming tab on the firing pin head did not allow the bolt head to travel far enough forward upon initial close up to engage the camming cuts in the barrel extension. This required a significant amount of forward force to be applied to the bolt handle compressing the main spring before the bolt could be cammed closed. Guns B10 and D1 were also difficult to close compared to the rest of the guns; however, they did have all of the correct components. Although not as difficult as C7 to close, they also required forward force to close the bolt. It was determined that the most likely reason for this issue was tolerance stack up that did not allow the bolt to come far enough forward during initial close up.

Trigger Pull

The trigger pull was measured on all of the rifles. The fire control on the M770 SS was not changed from that as found on the standard M770. This test was conducted as a standard safety check. The trigger pull is specified at 4.5 – 6.0 pound as found on the drawing Receiver Insert Assembly Complete (D-301412). During the initial test, TLW 2305, the trigger pull was measured using the Dvorak trigger scan device. Five scans were performed for each rifle. The average trigger pull for the A, B, and C series guns was 5.67 pounds with a standard deviation of 0.39 pounds. During the follow up test, TLW 2359, the trigger pull was measured using a Chatillon spring scale as a quick check. Five measurements were taken for each rifle. The average trigger pull for the D and E series guns was 4.54 pounds with a standard deviation of 0.27 pounds. It should be noted that previous testing comparing the Dvorak to the Chatillon spring scale showed a similar disparity when measuring the same sample of guns where the spring scale measured a lower trigger pull. These trigger pull tests showed that these M770 SS rifles had safe properly set triggers that were in spec.

Safety Function Check

As a standard safety check, the proper function of the safety was checked on all of the rifles. After checking to ensure that the rifle was unloaded, the bolt was closed and the trigger was pulled with the safety in the safe position. In all case the firing pin did not fall, indicating that the safety functioned as intended on all of the rifles.

Front take down screw hole depth

The front take down screw hole on the M770 is threaded directly in the barrel at the six o'clock position in roughly the middle of the chamber. In the development of the M710 Magnum it was determined that the depth of this hole needed to be shallower for magnum caliber rifles. Consequently, the maximum depth of this hole was changed from 0.227" for standard caliber rifles to 0.145" for magnum caliber rifles. These dimensions were not changed for the stainless steel version of the M770. However, as this hole is in the new stainless steel barrel, it

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was determined prudent to measure this hole depth on the initial series of guns to verify process capability. The average depth of this hole on the A series (300 Win Mag) guns was 0.138" with a maximum individual depth of 0.142. The average depth for the B (30-06 sprg) and C (243 Win) series guns was 0.220" with a maximum individual depth of 0.227". The front take down screw hole depth was not measured on the D and E series guns. This indicates that the process is capable of meeting specification requirements.

Chamber and Bore Dimensions

It was decided to inspect the chamber and bore on a sample of rifles during the initial T&P test to verify the chambering process in the stainless steel material. Chamber casts were made for rifles A1 – A3, B1 – B3, and C1 – C3 using 170 F Cerrosafe. These chamber casts were inspected along with a visual inspection of the chamber and bore. The chambers inspected were to found to be within specification. No abnormalities or irregularities were observed.

Proof

Proof testing consists of measuring the head space of the rifle before and after firing one standard SAAMI proof cartridge in each rifle. Head space was measured using graduated head space gages incremented in 0.001" steps. Typical acceptable head space growth through proof is 0.002". Additionally, the proof case is inspected for any sign of damage, specifically case bulging or stretching, and loose, bulged, or dropped primers. Gun C7 was not proof tested as it had an incorrect firing pin assembly and was not slated for any additional testing. All of the proof tested rifles passed without any signs of excessive head space growth or proof case damage. The maximum head space growth through proof testing was 0.002" and the maximum measured head space after proof was min + 0.006".

Extended Proof

One rifle, A7, was selected to go through extended proof testing. Extended proof testing is an internal Remington abuse test designed to test the robustness of the firearms lockup. The test consists of firing 100 proof cartridges through the rifle and measuring headspace to monitor headspace growth. Figure 1 shows a graph of the measured headspace growth of gun A7 as a function of proof rounds fired. Total heat space growth during extended proof testing was 0.001". This is considered acceptable head space grown for extended proof testing. Additionally, none of the fired proof cases showed any sign of damage.

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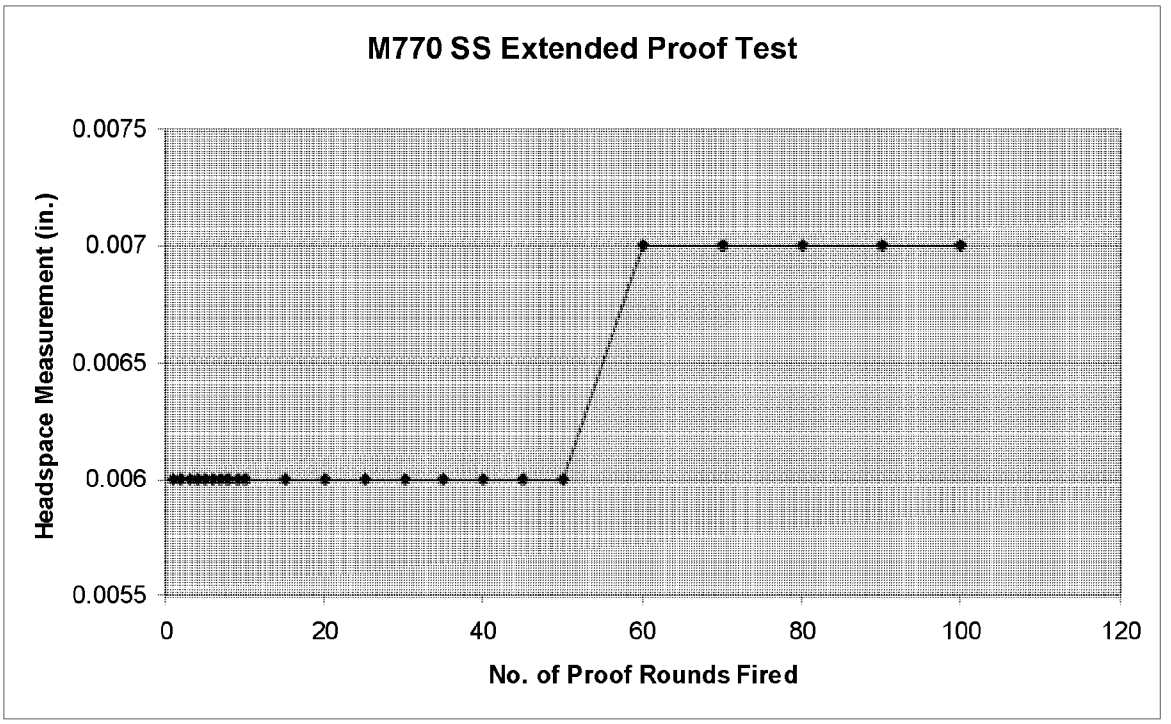

Figure 1: Headspace growth during Extended Proof of gun A7.

Accuracy

The accuracy of the M770 SS was evaluated via firing a sample of rifles from each of the five calibers tested. The rifles were fired from the bench using the lead sled with the standard Bushnell 3 x 9 scope supplied with the rifle. Three 5 shot groups were fired for each rifle at 100 yards. The order of the shots was recorded for each group. This was done so that the first three shots could be measured as a three shot group. This allowed us to compare the data to Mayfield's historical data. For the A, B, and C series rifles the Oehler acoustic target was used to capture the shot order and group size. Paper targets were used to confirm the Oehler data. For the D and E series rifles the amount of shooting did not justify setting up the Oehler acoustic target. So the groups were shot directly on paper targets to be measured manually using the range camera to track the shot order. Graphs of the 3 shot and 5 shot group sizes are shown in figures 2 and 3, respectively. The overall accuracy summary is shown in table 2. This table also contains a summary of the accuracy data provided by Mayfield prior to delivery of these test guns for comparison. The overall average Elizabethtown 3-shot groups size was 1.47 inches. This compares to the Mayfield Historical 3-shot average group size of 1.31 inches. A statistical comparison can not be made between the Elizabethtown and Mayfield data, because the conditions under which the data was collected differed significantly. However, this testing did show that the accuracy of the M/770 SS was comparable to that as measured in Mayfield.

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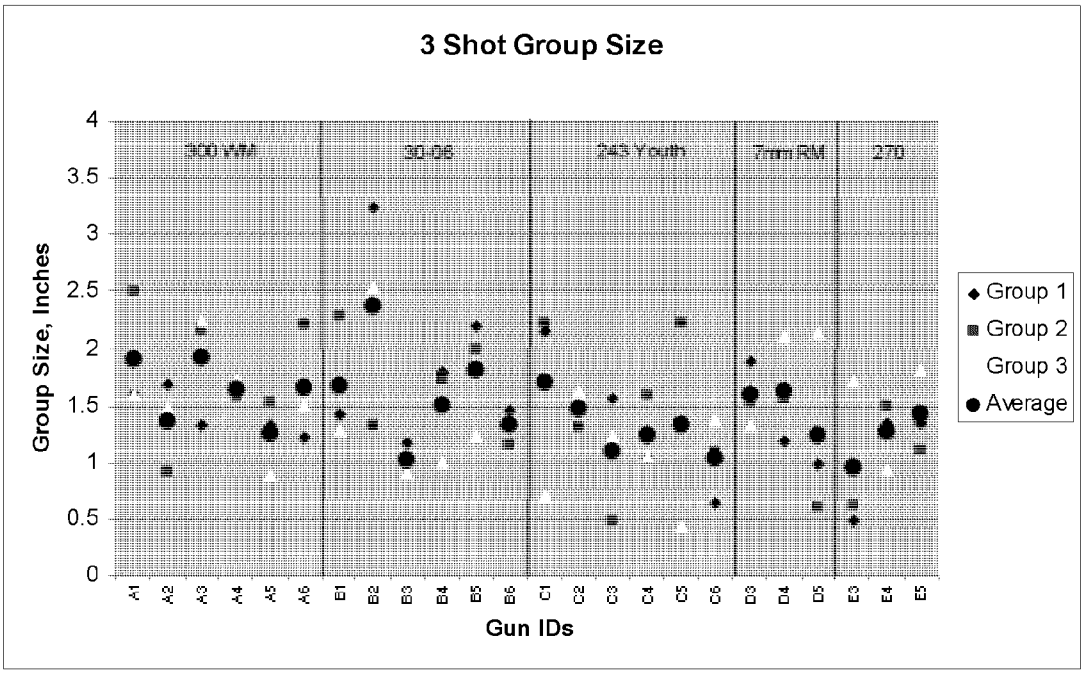

Figure 2: M770 SS 3 shot group accuracy graph.

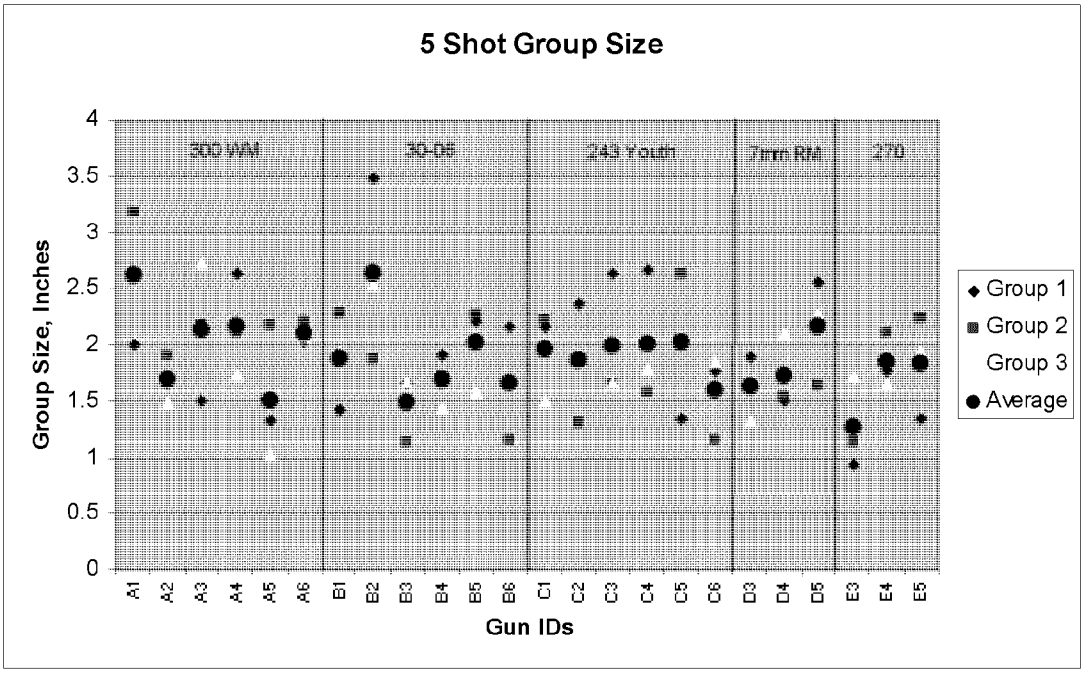

Figure 3: M770 SS 5 shot group accuracy graph.

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Overall Accuracy Summary						
Series	A	B	C	D	E	All Calibers
Caliber	300 Win Mag	30-06 Sprg	243 Win Youth	7mm Rem Mag	270 Win	Combined
Elizabethtown Accuracy Data						
3 Shot Group Average	**1.62**	**1.61**	**1.31**	**1.48**	**1.20**	**1.47**
3 Shot Group Standard Deviation	0.44	0.63	0.55	0.51	0.46	0.54
5 Shot Group Average	**2.03**	**1.89**	**1.90**	**1.83**	**1.64**	**1.89**
5 Shot Group Standard Deviation	0.54	0.56	0.47	0.40	0.44	0.50
# of guns fired	6	6	6	3	3	24
# of groups per gun	3	3	3	3	3	3
Mayfield Accuracy Data						
3 Shot Group Average	**1.40**	**1.20**	**1.03**	**1.29**	**1.31**	**1.31**
3 Shot Group Standard Deviation	0.31	0.30	0.24	0.31	0.27	0.31
# of guns fired	101	80	8	3	23	215
# of groups per gun	1	1	1	1	1	1

Table 2: M770 SS accuracy summary.

Endurance

A tiered endurance regime was conducted on the M770 SS rifles as outlined in the summary in table 1. The malfunction summary is shown in table 3. Overall, the rifles functioned well with minimal malfunctions. Gun A3 experienced two instances where the firing pin bound at round levels 638 and 697. The trigger would get heavy the few rounds prior to the malfunction. In both cases the condition cleared up on its own. At the end of the endurance segment the firing pin assembly was disassembled and inspected. The firing pin was found to be gouged, shown in figure 4. It was determined that a piece of debris, most likely a metal chip, must have been lodged between the firing pin, bolt plug, and main spring, and must have restricted movement of the firing pin during live fire testing. No burr was found that could have caused the gouge. During the second round of the test, when the D and E series rifles were tested, the lower locking lug on the bolt intermittently hit the magazine follower when the bolt was pulled back. This was not observed during the initial test with the A, B, and C series rifles. This observation and condition has nothing to do with the stainless or plated parts, the focus of this test. A very slight chamfer was sanded on the front of magazine follower on guns D1, D2, E1, and E2.

Malfunction Summary																											
	A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6	D1	D2	D3	D4	D5	E1	E2	E3	E4	E5
100 RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 [c]	0 [c]	0 [c]	0 [c]	0 [c]	0 [c]	0 [c]	0 [c]	0 [c]	0 [c]
500 RL	0	1 [a]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 [c]	0 [c]				0 [c]	0 [c]			
1000 RL	0	0	2 [b]	0			0	0	0	0			0	0	0	0			0 [c]					0 [c]				
1500 RL	0	0					0	0					0	0														
2000 RL	0	0					0	0					0	0														

[a] Fail to Eject on round 315
[b] A3 Firing pin bound on rounds 638,697. Trigger got heavy few rounds prior to malfunction, then no fire.
[c] Bolt locking lug intermittenly hit front of magazine follower.

Table 3: M770 endurance malfunction summary.

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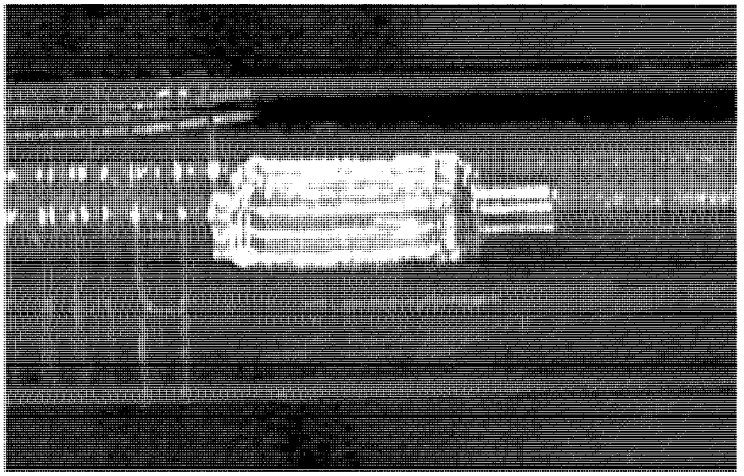

Figure 4: Gouged firing pin from gun A3.

Environmental Testing

Two rifles, B8 and C8, were environmentally tested via standard Remington hot and cold test procedure. Thermal cycle testing was initially planned; however, it was not performed due to equipment availability and a discussion as to the merits of conducting. The hot test consisted of placing the rifles in the Tenney environmental chamber set at 120F for 24 hours and then firing 20 rounds through each rifle at 2 hour intervals for a total of 100 rounds each. The cold test was conducted in a similar manner with the Tenney set -20F. No malfunctions were recorded during the hot test. One misfire was recorded during the cold test on gun B8 at round 22. The indent was good and appeared to be an ammunition malfunction.

Metallurgical Evaluation

Following endurance the barrels from rifles A1, B1, C1, D1, and E1 were removed from their receivers for metallurgical evaluation. The barrel of the M/770 rifle is manufactured with the locking lug machined integerally in to the barrel. The breech end of the barrel with these locking lugs is then induction hardened and tempered. The hardness specification for the barrel is HRc 37 – 45 as measured on the outside diameter of the hardened lug area. The hardness was inspected on the five barrels being evaluated in two locations; over one of the locking lugs and between two lugs. This data is show in figure 5.

Gun ID		A1	B1	C1	D1	E1
Location	Over Lug	43.0	44.4	41.4	39.4	42.9
	Between Lug	41.5	39.0	39.0	42.6	44.1

Figure 5: Hardness Inspection Data.

Each barrel was sectioned in four locations. Three of these sections were through the bore and the fourth section was cut through the center of the locking lugs, as seen in figure 6. Microhardness measurements were taken on each of the three lugs in each section to compare to the OD hardness data. These measurements were from the ID to the OD. The microhardness was preformed using the 500g Vickers scale. This data was then converted to HRc and is show graphically in figure 7. The specification states that the OD hardness should be between HRc 37 – 45, which they were. The microhardness data collected showed that the lugs were through hardened. Two locations at the ID of lug 3 on the barrel from gun E1 did show lower hardness. This most likely indicates that the ID of this particular lug got warmer then the rest during the temper cycle.

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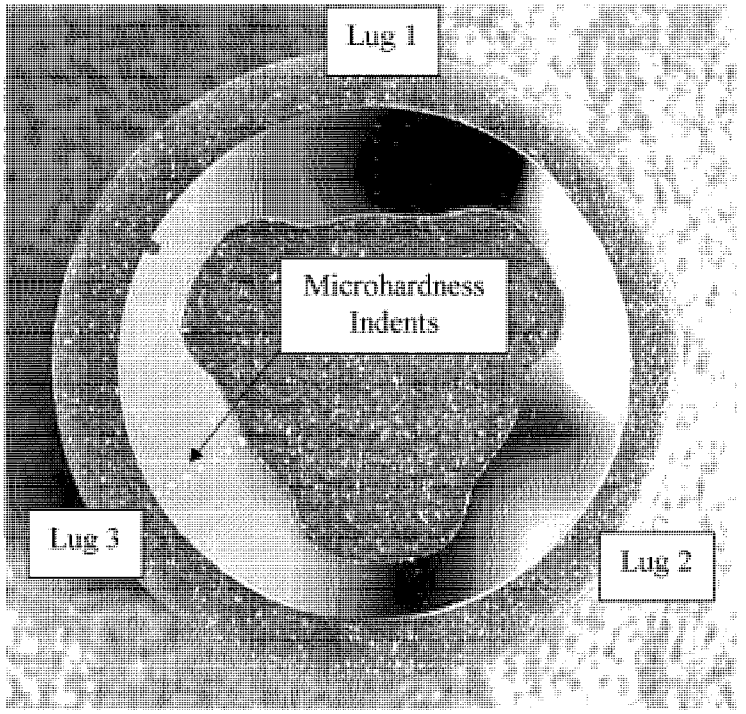

Figure 6: Representative lug section mount.

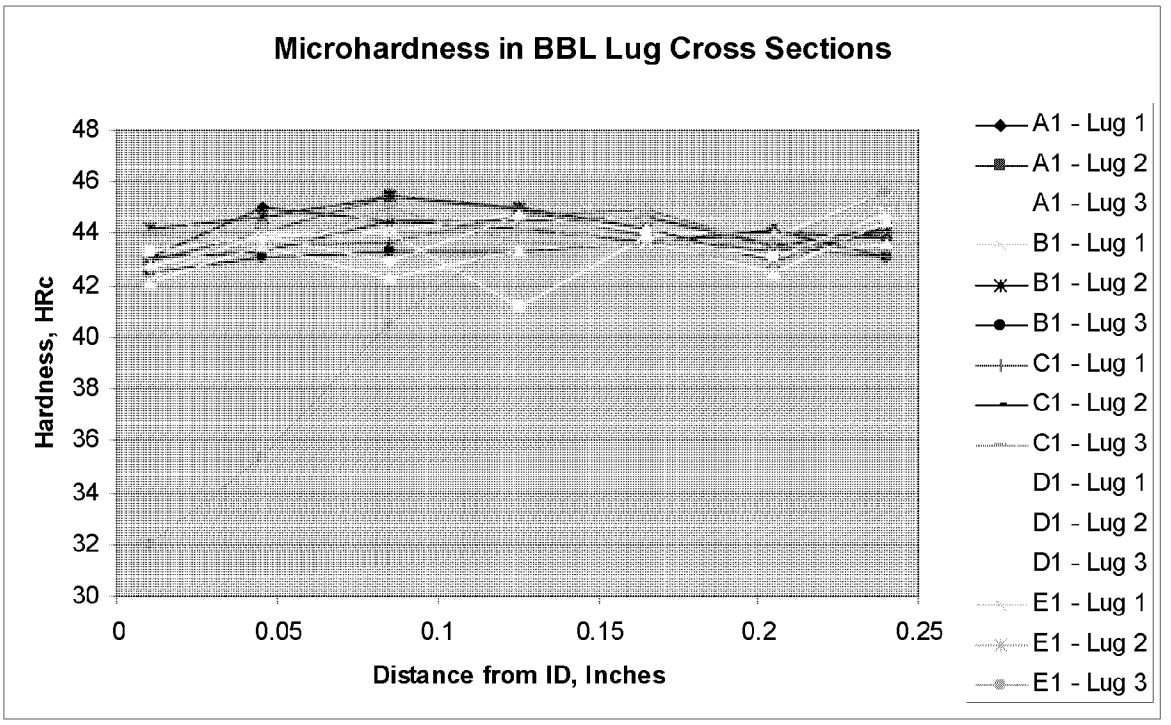

Figure 7: Locking Lug Microhardness Data.

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The barrel sections were cut at the throat of the chamber, one inch down bore from the throat, and two inches down bore from the throat. These sections were mounted, polished, and inspected using the Nikon stereoscope. Representative pictures of these bore sections are shown in figures 8 - 10. A moderate about of heat checking was seen as would be expected in rifles with 1000 to 2000 rounds on them. No evidence of stress induced cracking was seen. The maximum measured crack length was 0.011" with the average measured crack length being 0.0064".

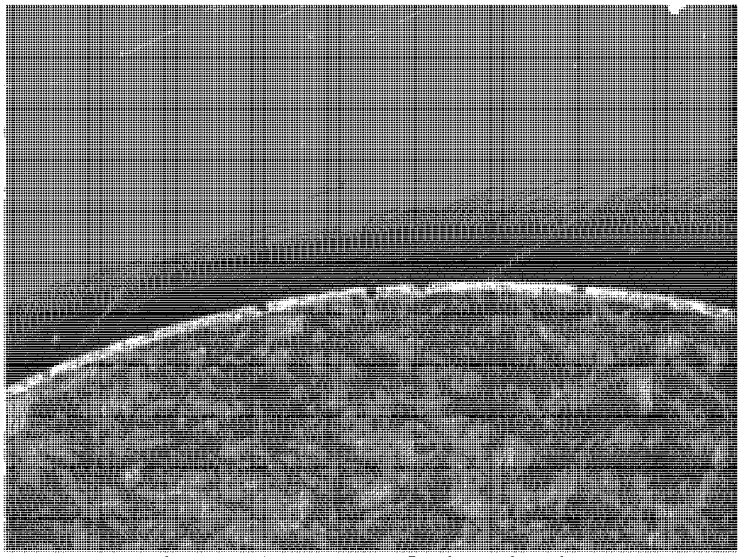

Figure 8: A1 (300 WM) @ Throat location.

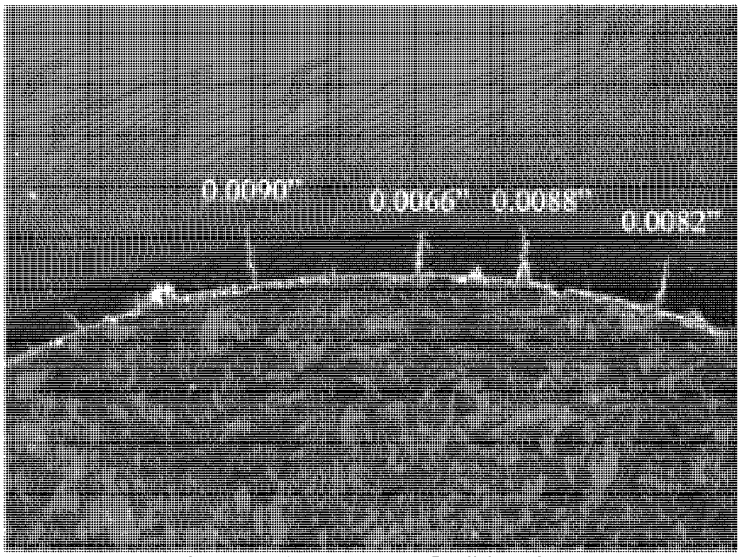

Figure 9: A1 (300 WM) @ 1" location.

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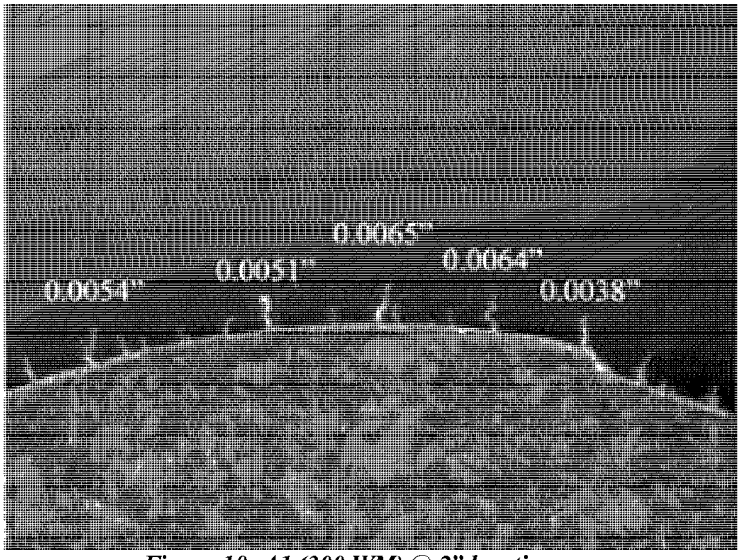

Figure 10: A1 (300 WM) @ 2" location.

Dry Cycle

One rifle, B7, was dry cycled using the pneumatic centerfire dry cycle machine. The action was cycled to 10,000 cycles stopping to lubricate every 500 round. No problems were discovered with the plating on the bolt or receiver. No appreciable wear was seen on the bolt.

High Pressure Abuse

High pressure abusive testing was performed on one rifle, A9, using SAAMI and Remington test procedures. The rifle selected for this test, A9, was chambered for the 300 Win Mag cartridge, representing the most sever scenario. The rifle had a strain gage place over the chamber portion of the barrel in the hoop direction. Three SAAMI reference rounds were fired through the rifle followed by three SAAMI Proof rounds. The rifle was then subjected to a 120,000 psi abuse round. The load for the abuse round was 71.5 grains of IMR 3031 Lot # E97AU19L1500. The result of this test were consistent with previously tested carbon steel product. The rifle remained intact; however, the strain data captured, seen in figure 11, shows that the barrel did take a permanent deformation set of approximately 300 μ" / ". The bolt required the use of a hammer to be opened. Figures 12 – 14 documents the condition of the rifle post test.

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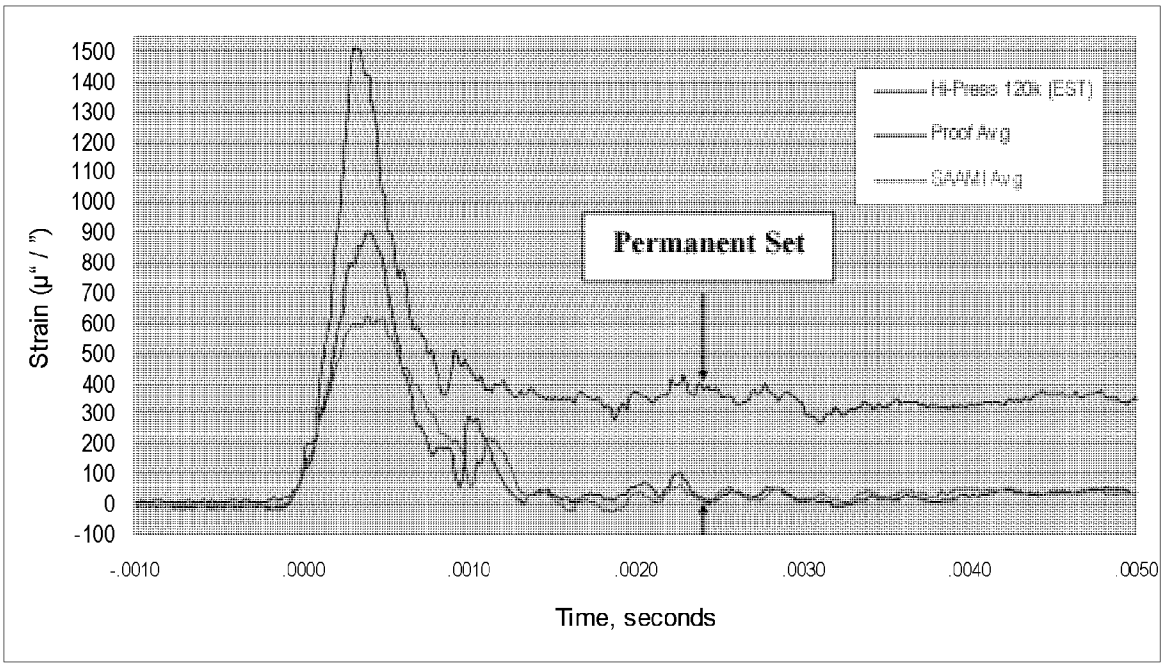

Figure 11: Strain Data for Abusive testing of gun A9.

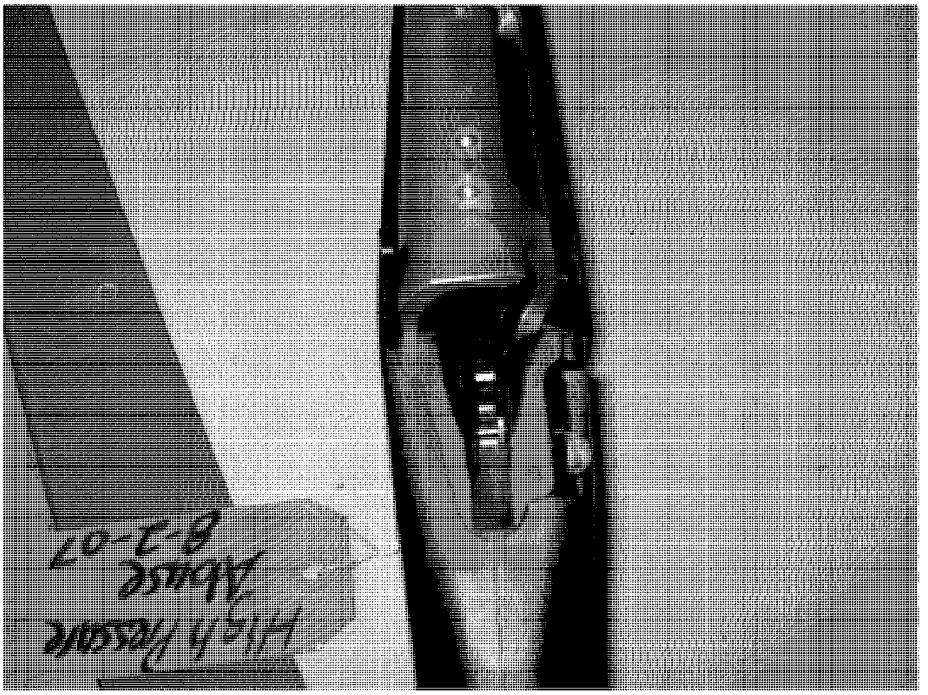

Figure 12: Gun A9 post abusive testing.

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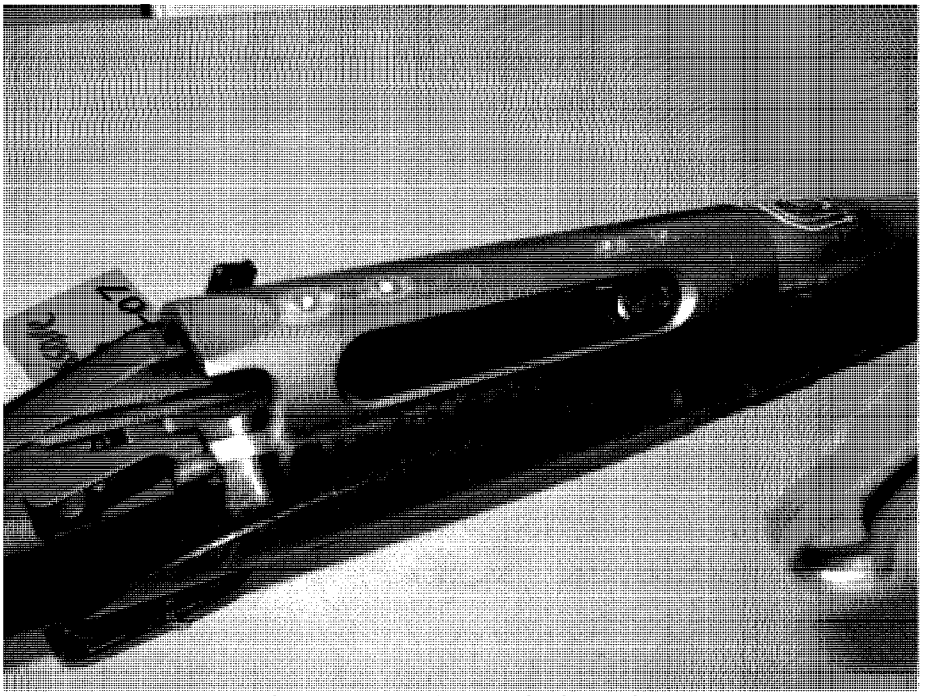

Figure 13: Gun A9 post abusive testing.

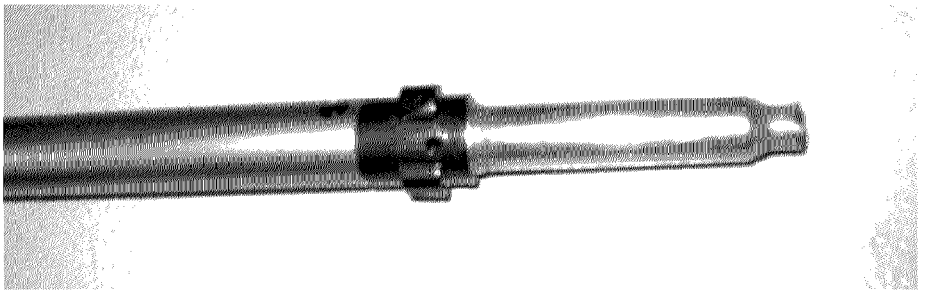

Figure 14: Gun A9 post abusive testing.

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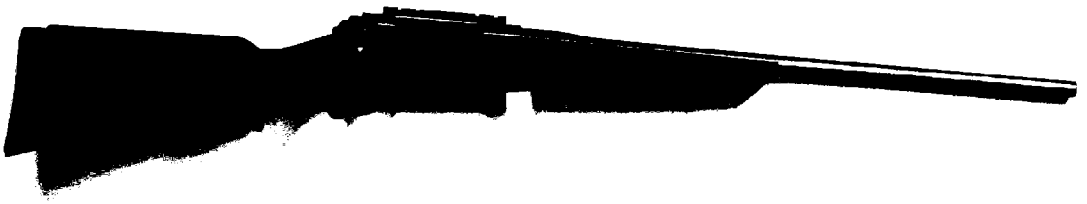
TRIAL AND PILOT TEST REPORT

Model 770 Stainless Steel
Bolt Action Rifle

TLW 2305
300 Win Mag
30-06 Sprg
243 Win Youth

TLW 2359
7mm Rem Mag
270 Win



Written by:
James E. Urbon

November 2007

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KINZER V. REMINGTON

R 2195383

INTRODUCTION

The testing for this Trial and Pilot (T&P) test was selected to evaluate the changes made to the M/770 to create the stainless steel version. The T&P test was conducted in two rounds, an initial thorough investigation of three calibers and a follow up confirmation of two additional calibers. TLW 2305 covers the initial testing of the M770 SS. It consisted of A series (300 Win Mag), B series (30-06 Sprg), and C series (243 Win Youth) rifles. TLW 2359 covers the follow up testing and consisted of on the D series (7mm Rem Mag) and E Series (270 Win).

RESULTS SUMMARY

The M770 Stainless Steel bolt action rifle tested in this Trial and Pilot (T&P) test represents a line extension to the current M770 rifle. The M770 rifle is an established tested current product. The stainless steel version of the M770 test replaces the standard carbon steel barrel with a stainless steel barrel. The barrel on the M770 contains the locking lugs which engage the bolt head. The barrel end containing these locking lugs is induction hardened. This stainless steel barrel requires a different set of parameters to induction harden the locking lugs in the barrel. Additionally, the receiver and bolt body were plated with Electroless Nickel for cosmetic reasons. In all other aspects the stainless steel version in the same as the standard carbon steel rifle. Table 1 summarizes the test matrix performed in this T&P test along with the results, which supports the conclusion that all M770 SS variants passed and are recommended for full scale production.

| Model 770 Stainless Steel Trial and Pilot Testing Summary | | |

metallurgical evaluation of the barrel showed no sign of stress induced cracking. Dry cycle testing and environmental testing also passed. Finally, high pressure abuse testing in which one rifle was subjected to a 120,000 psi abuse load was successfully passed. The barrel did take a permanent deformation set, but gun remained intact and did not come apart. In conclusion, all of the rifles functioned well and no safety issues were discovered. The Test and Measurement organization within the Elizabethtown Research and Development facility formally supports exit from Trial and Pilot testing of the M770 stainless steel rifle.

PROCEDURE & DETAILED RESULTS

Visual Inspection

Upon receipt, all of the rifles were given a thorough visual inspection. In general, the rifles looked very good. No visible mars were seen on any of the rifles. The electroless nickel plating on the receiver and bolt body looked good with no flaws observed. All of the rifles were hand cycled and most of the rifles cycled as expected for M770 actions. However, rifles, B10, C7, and D1 were more difficult to close. Upon closer inspection of gun C7 it was discovered that the firing pin assembly had an old vintage firing pin head. The shorter camming tab on the firing pin head did not allow the bolt head to travel far enough forward upon initial close up to engage the camming cuts in the barrel extension. This required a significant amount of forward force to be applied to the bolt handle compressing the main spring before the bolt could be cammed closed. Guns B10 and D1 were also difficult to close compared to the rest of the guns; however, they did have all of the correct components. Although not as difficult as C7 to close, they also required forward force to close the bolt. It was determined that the most likely reason for this issue was tolerance stack up that did not allow the bolt to come far enough forward during initial close up.

Trigger Pull

The trigger pull was measured on all of the rifles. The fire control on the M770 SS was not changed from that as found on the standard M770. This test was conducted as a standard safety check. The trigger pull is specified at 4.5 – 6.0 pound as found on the drawing Receiver Insert Assembly Complete (D-301412). During the initial test, TLW 2305, the trigger pull was measured using the Dvorak trigger scan device. Five scans were performed for each rifle. The average trigger pull for the A, B, and C series guns was 5.67 pounds with a standard deviation of 0.39 pounds. During the follow up test, TLW 2359, the trigger pull was measured using a Chatillon spring scale as a quick check. Five measurements were taken for each rifle. The average trigger pull for the D and E series guns was 4.54 pounds with a standard deviation of 0.27 pounds. It should be noted that previous testing comparing the Dvorak to the Chatillon spring scale showed a similar disparity when measuring the same sample of guns where the spring scale measured a lower trigger pull. These trigger pull tests showed that these M770 SS rifles had safe properly set triggers that were in spec.

Safety Function Check

As a standard safety check, the proper function of the safety was checked on all of the rifles. After checking to ensure that the rifle was unloaded, the bolt was closed and the trigger was pulled with the safety in the safe position. In all case the firing pin did not fall, indicating that the safety functioned as intended on all of the rifles.

Front take down screw hole depth

The front take down screw hole on the M770 is threaded directly in the barrel at the six o'clock position in roughly the middle of the chamber. In the development of the M710 Magnum it was determined that the depth of this hole needed to be shallower for magnum caliber rifles. Consequently, the maximum depth of this hole was changed from 0.227" for standard caliber rifles to 0.145" for magnum caliber rifles. These dimensions were not changed for the stainless steel version of the M770. However, as this hole is in the new stainless steel barrel, it

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was determined prudent to measure this hole depth on the initial series of guns to verify process capability. The average depth of this hole on the A series (300 Win Mag) guns was 0.138" with a maximum individual depth of 0.142. The average depth for the B (30-06 sprg) and C (243 Win) series guns was 0.220" with a maximum individual depth of 0.227". The front take down screw hole depth was not measured on the D and E series guns. This indicates that the process is capable of meeting specification requirements.

Chamber and Bore Dimensions

It was decided to inspect the chamber and bore on a sample of rifles during the initial T&P test to verify the chambering process in the stainless steel material. Chamber casts were made for rifles A1 – A3, B1 – B3, and C1 – C3 using 170 F Cerrosafe. These chamber casts were inspected along with a visual inspection of the chamber and bore. The chambers inspected were to found to be within specification. No abnormalities or irregularities were observed.

Proof

Proof testing consists of measuring the head space of the rifle before and after firing one standard SAAMI proof cartridge in each rifle. Head space was measured using graduated head space gages incremented in 0.001" steps. Typical acceptable head space growth through proof is 0.002". Additionally, the proof case is inspected for any sign of damage, specifically case bulging or stretching, and loose, bulged, or dropped primers. Gun C7 was not proof tested as it had an incorrect firing pin assembly and was not slated for any additional testing. All of the proof tested rifles passed without any signs of excessive head space growth or proof case damage. The maximum head space growth through proof testing was 0.002" and the maximum measured head space after proof was min + 0.006".

Extended Proof

One rifle, A7, was selected to go through extended proof testing. Extended proof testing is an internal Remington abuse test designed to test the robustness of the firearms lockup. The test consists of firing 100 proof cartridges through the rifle and measuring headspace to monitor headspace growth. Figure 1 shows a graph of the measured headspace growth of gun A7 as a function of proof rounds fired. Total heat space growth during extended proof testing was 0.001". This is considered acceptable head space grown for extended proof testing. Additionally, none of the fired proof cases showed any sign of damage.

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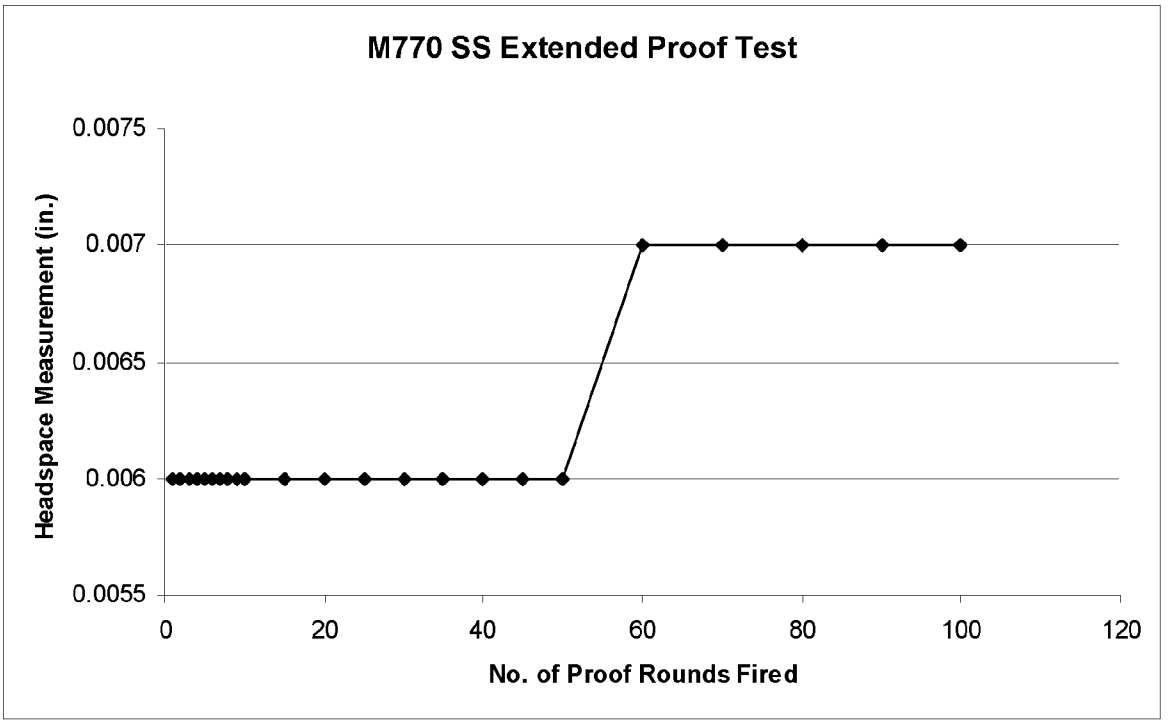

Figure 1: Headspace growth during Extended Proof of gun A7.

Accuracy

The accuracy of the M770 SS was evaluated via firing a sample of rifles from each of the five calibers tested. The rifles were fired from the bench using the lead sled with the standard Bushnell 3 x 9 scope supplied with the rifle. Three 5 shot groups were fired for each rifle at 100 yards. The order of the shots was recorded for each group. This was done so that the first three shots could be measured as a three shot group. This allowed us to compare the data to Mayfield's historical data. For the A, B, and C series rifles the Oehler acoustic target was used to capture the shot order and group size. Paper targets were used to confirm the Oehler data. For the D and E series rifles the amount of shooting did not justify setting up the Oehler acoustic target. So the groups were shot directly on paper targets to be measured manually using the range camera to track the shot order. Graphs of the 3 shot and 5 shot group sizes are shown in figures 2 and 3, respectively. The overall accuracy summary is shown in table 2. This table also contains a summary of the accuracy data provided by Mayfield prior to delivery of these test guns for comparison. The overall average Elizabethtown 3-shot groups size was 1.47 inches. This compares to the Mayfield Historical 3-shot average group size of 1.31 inches. A statistical comparison can not be made between the Elizabethtown and Mayfield data, because the conditions under which the data was collected differed significantly. However, this testing did show that the accuracy of the M/770 SS was comparable to that as measured in Mayfield.

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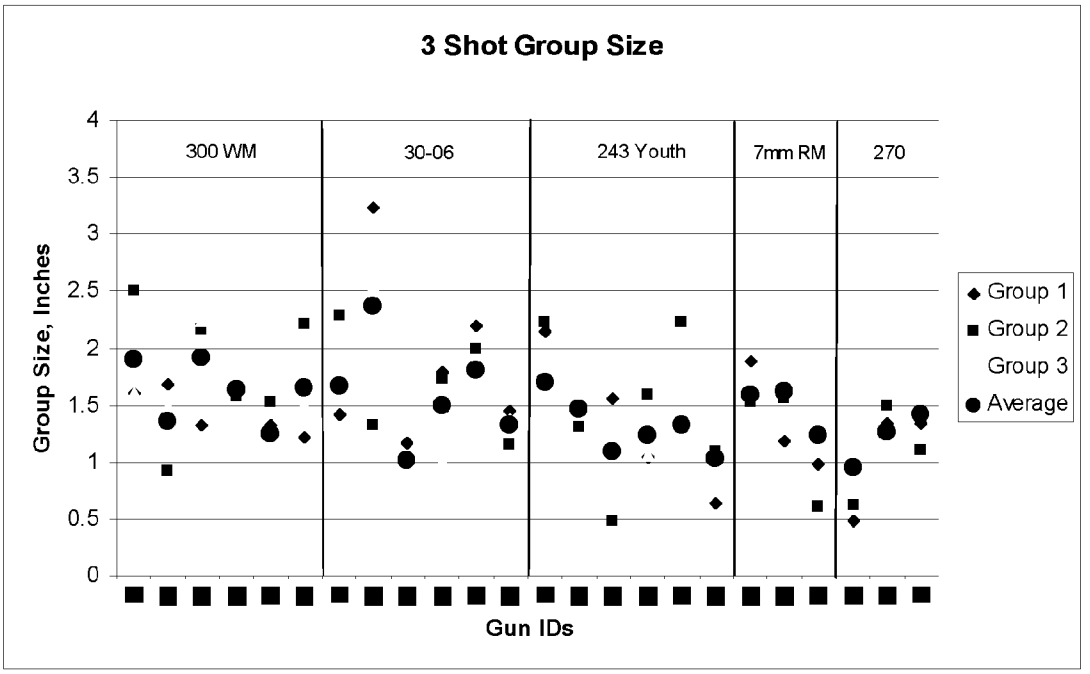

Figure 2: M770 SS 3 shot group accuracy graph.

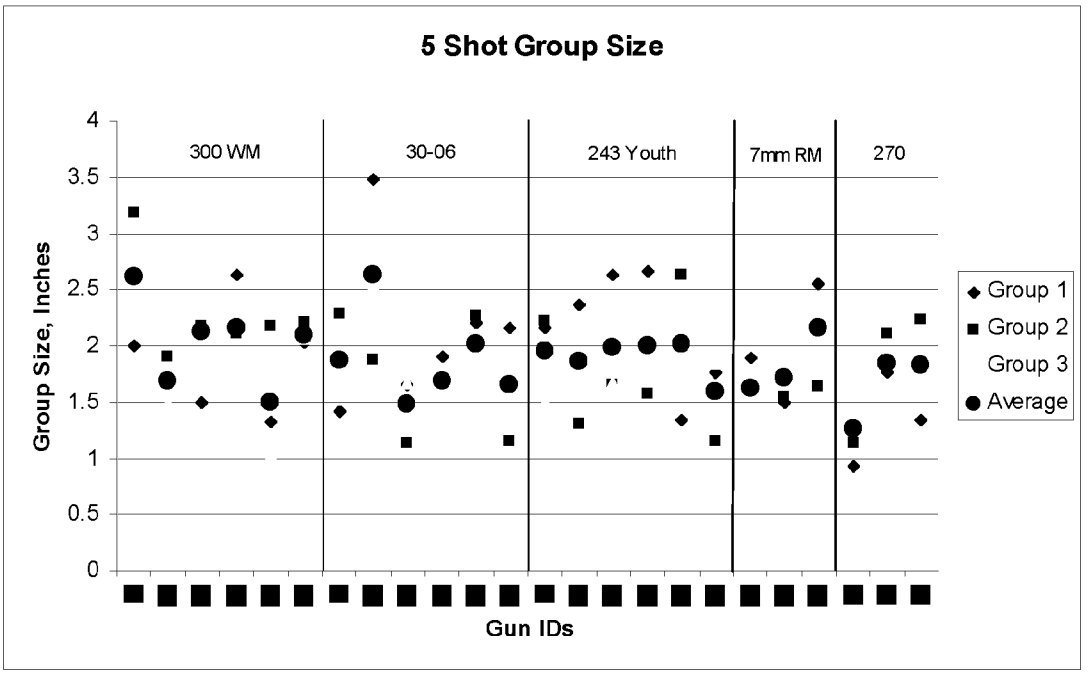

Figure 3: M770 SS 5 shot group accuracy graph.

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Overall Accuracy Summary						
Series	A	B	C	D	E	All Calibers
Caliber	300 Win Mag	30-06 Sprg	243 Win Youth	7mm Rem Mag	270 Win	Combined
Elizabethtown Accuracy Data						
3 Shot Group Average	**1.62**	**1.61**	**1.31**	**1.48**	**1.20**	**1.47**
3 Shot Group Standard Deviation	0.44	0.63	0.55	0.51	0.46	0.54
5 Shot Group Average	**2.03**	**1.89**	**1.90**	**1.83**	**1.64**	**1.89**
5 Shot Group Standard Deviation	0.54	0.56	0.47	0.40	0.44	0.50
# of guns fired	6	6	6	3	3	24
# of groups per gun	3	3	3	3	3	3
Mayfield Accuracy Data						
3 Shot Group Average	**1.40**	**1.20**	**1.03**	**1.29**	**1.31**	**1.31**
3 Shot Group Standard Deviation	0.31	0.30	0.24	0.31	0.27	0.31
# of guns fired	101	80	8	3	23	215
# of groups per gun	1	1	1	1	1	1

Table 2: M770 SS accuracy summary.

Endurance

A tiered endurance regime was conducted on the M770 SS rifles as outlined in the summary in table 1. The malfunction summary is shown in table 3. Overall, the rifles functioned well with minimal malfunctions. Gun A3 experienced two instances where the firing pin bound at round levels 638 and 697. The trigger would get heavy the few rounds prior to the malfunction. In both cases the condition cleared up on its own. At the end of the endurance segment the firing pin assembly was disassembled and inspected. The firing pin was found to be gouged, shown in figure 4. It was determined that a piece of debris, most likely a metal chip, must have been lodged between the firing pin, bolt plug, and main spring, and must have restricted movement of the firing pin during live fire testing. No burr was found that could have caused the gouge. During the second round of the test, when the D and E series rifles were tested, the lower locking lug on the bolt intermittently hit the magazine follower when the bolt was pulled back. This was not observed during the initial test with the A, B, and C series rifles. This observation and condition has nothing to do with the stainless or plated parts, the focus of this test. A very slight chamfer was sanded on the front of magazine follower on guns D1, D2, E1, and E2.

Malfunction Summary																											
	A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6	D1	D2	D3	D4	D5	E1	E2	E3	E4	E5
100 RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 [c]	0 [c]	0 [c]	0 [c]	0 [c]	0 [c]	0 [c]	0 [c]	0 [c]	0 [c]
500 RL	0	1 [a]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 [c]	0 [c]				0 [c]	0 [c]			
1000 RL	0	0	2 [b]	0			0	0	0	0			0	0	0	0			0 [c]					0 [c]				
1500 RL	0	0					0	0					0	0														
2000 RL	0	0					0	0					0	0														

[a] Fail to Eject on round 315
[b] A3 Firing pin bound on rounds 638,697. Trigger got heavy few rounds prior to malfunction, then no fire.
[c] Bolt locking lug intermittenly hit front of magazine follower.

Table 3: M770 endurance malfunction summary.

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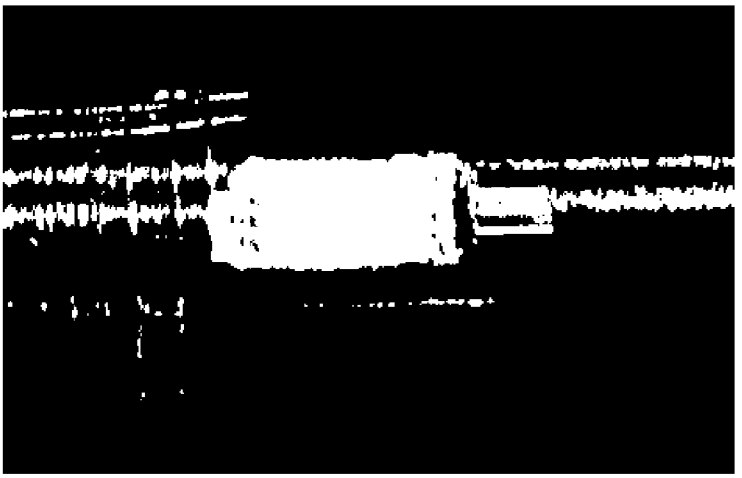

Figure 4: Gouged firing pin from gun A3.

Environmental Testing

Two rifles, B8 and C8, were environmentally tested via standard Remington hot and cold test procedure. Thermal cycle testing was initially planned; however, it was not performed due to equipment availability and a discussion as to the merits of conducting. The hot test consisted of placing the rifles in the Tenney environmental chamber set at 120F for 24 hours and then firing 20 rounds through each rifle at 2 hour intervals for a total of 100 rounds each. The cold test was conducted in a similar manner with the Tenney set -20F. No malfunctions were recorded during the hot test. One misfire was recorded during the cold test on gun B8 at round 22. The indent was good and appeared to be an ammunition malfunction.

Metallurgical Evaluation

Following endurance the barrels from rifles A1, B1, C1, D1, and E1 were removed from their receivers for metallurgical evaluation. The barrel of the M/770 rifle is manufactured with the locking lug machined integerally in to the barrel. The breech end of the barrel with these locking lugs is then induction hardened and tempered. The hardness specification for the barrel is HRc 37 – 45 as measured on the outside diameter of the hardened lug area. The hardness was inspected on the five barrels being evaluated in two locations; over one of the locking lugs and between two lugs. This data is show in figure 5.

Gun ID		A1	B1	C1	D1	E1
Location	Over Lug	43.0	44.4	41.4	39.4	42.9
	Between Lug	41.5	39.0	39.0	42.6	44.1

Figure 5: Hardness Inspection Data.

Each barrel was sectioned in four locations. Three of these sections were through the bore and the fourth section was cut through the center of the locking lugs, as seen in figure 6. Microhardness measurements were taken on each of the three lugs in each section to compare to the OD hardness data. These measurements were from the ID to the OD. The microhardness was preformed using the 500g Vickers scale. This data was then converted to HRc and is show graphically in figure 7. The specification states that the OD hardness should be between HRc 37 – 45, which they were. The microhardness data collected showed that the lugs were through hardened. Two locations at the ID of lug 3 on the barrel from gun E1 did show lower hardness. This most likely indicates that the ID of this particular lug got warmer then the rest during the temper cycle.

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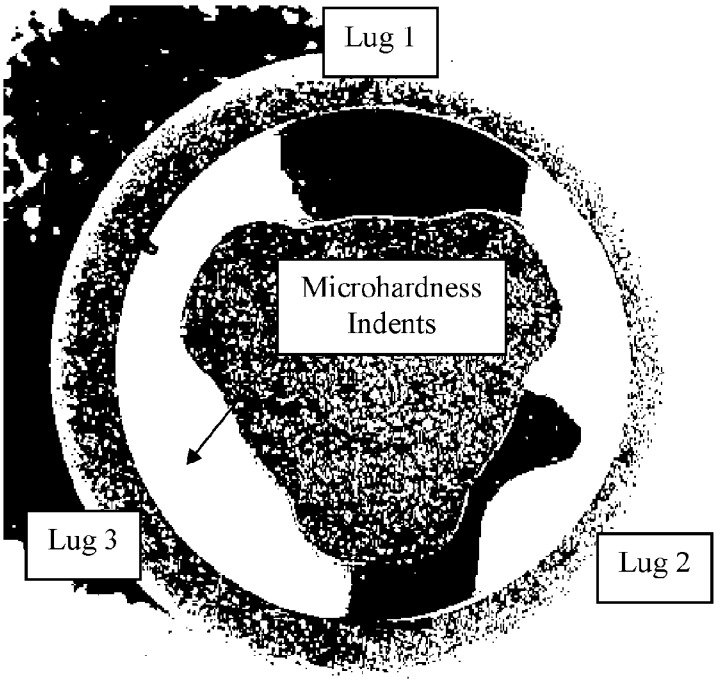

Figure 6: Representative lug section mount.

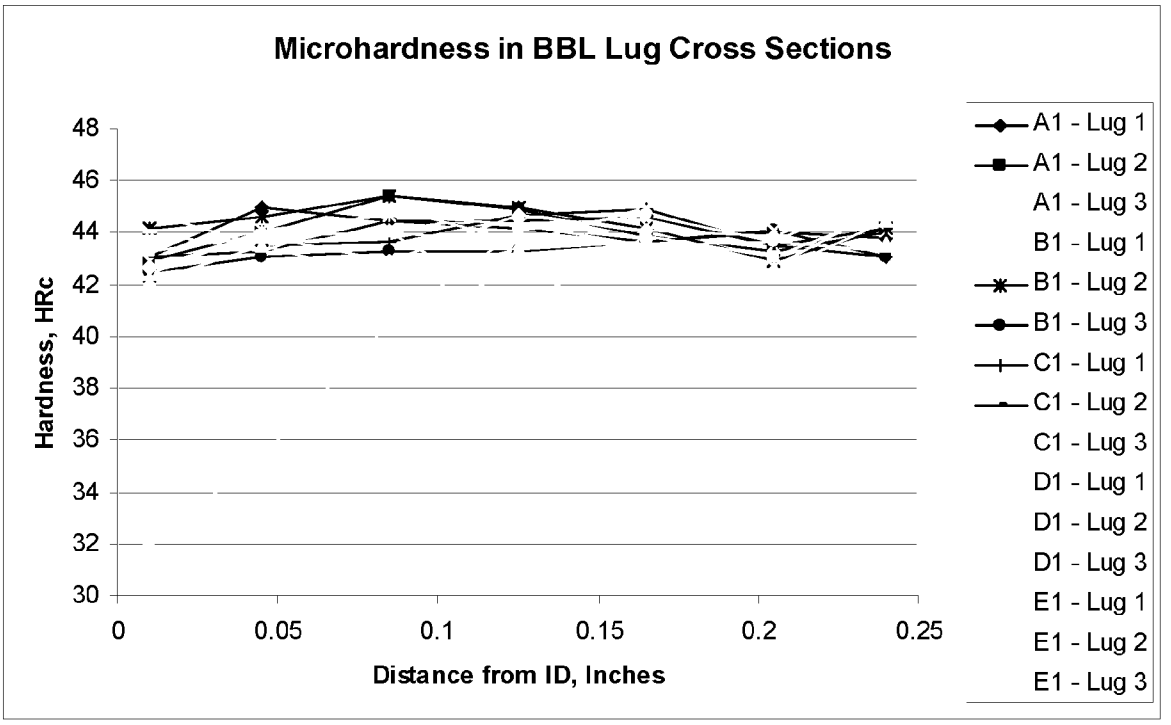

Figure 7: Locking Lug Microhardness Data.

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The barrel sections were cut at the throat of the chamber, one inch down bore from the throat, and two inches down bore from the throat. These sections were mounted, polished, and inspected using the Nikon stereoscope. Representative pictures of these bore sections are shown in figures 8 - 10. A moderate about of heat checking was seen as would be expected in rifles with 1000 to 2000 rounds on them. No evidence of stress induced cracking was seen. The maximum measured crack length was 0.011" with the average measured crack length being 0.0064".

Figure 8: A1 (300 WM) @ Throat location.

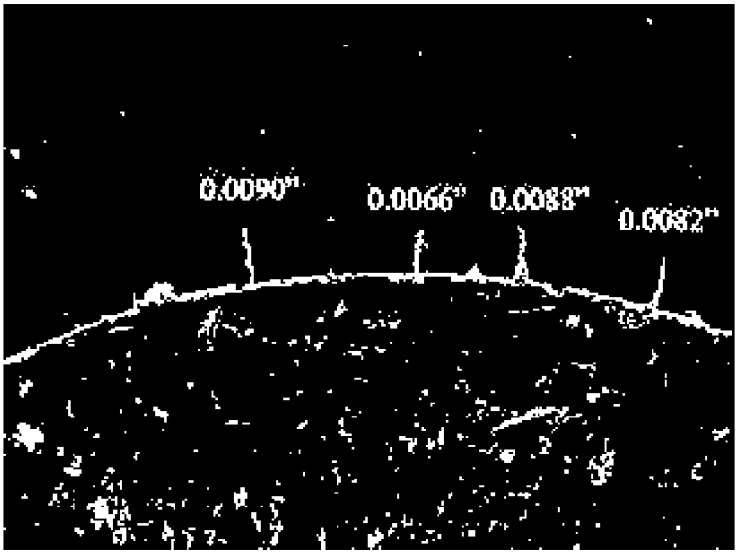

Figure 9: A1 (300 WM) @ 1" location.

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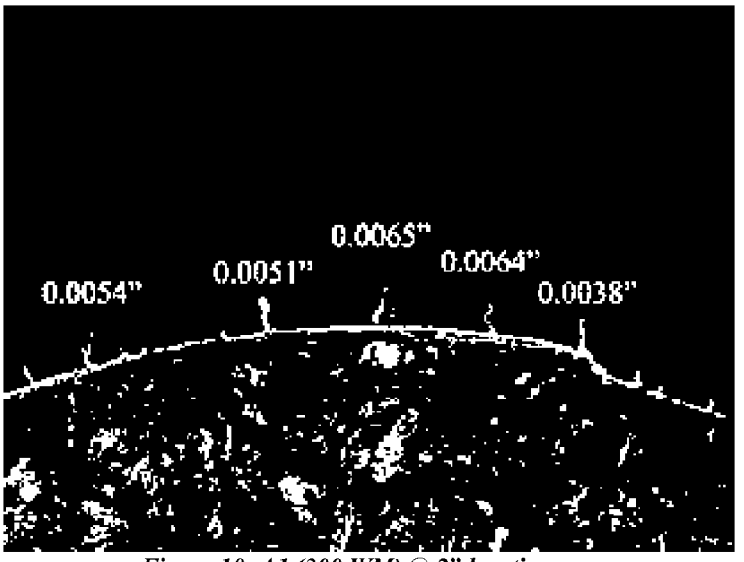

Figure 10: A1 (300 WM) @ 2" location.

Dry Cycle

One rifle, B7, was dry cycled using the pneumatic centerfire dry cycle machine. The action was cycled to 10,000 cycles stopping to lubricate every 500 round. No problems were discovered with the plating on the bolt or receiver. No appreciable wear was seen on the bolt.

High Pressure Abuse

High pressure abusive testing was performed on one rifle, A9, using SAAMI and Remington test procedures. The rifle selected for this test, A9, was chambered for the 300 Win Mag cartridge, representing the most sever scenario. The rifle had a strain gage place over the chamber portion of the barrel in the hoop direction. Three SAAMI reference rounds were fired through the rifle followed by three SAAMI Proof rounds. The rifle was then subjected to a 120,000 psi abuse round. The load for the abuse round was 71.5 grains of IMR 3031 Lot # E97AU19L1500. The result of this test were consistent with previously tested carbon steel product. The rifle remained intact; however, the strain data captured, seen in figure 11, shows that the barrel did take a permanent deformation set of approximately 300 μ" / ". The bolt required the use of a hammer to be opened. Figures 12 – 14 documents the condition of the rifle post test.

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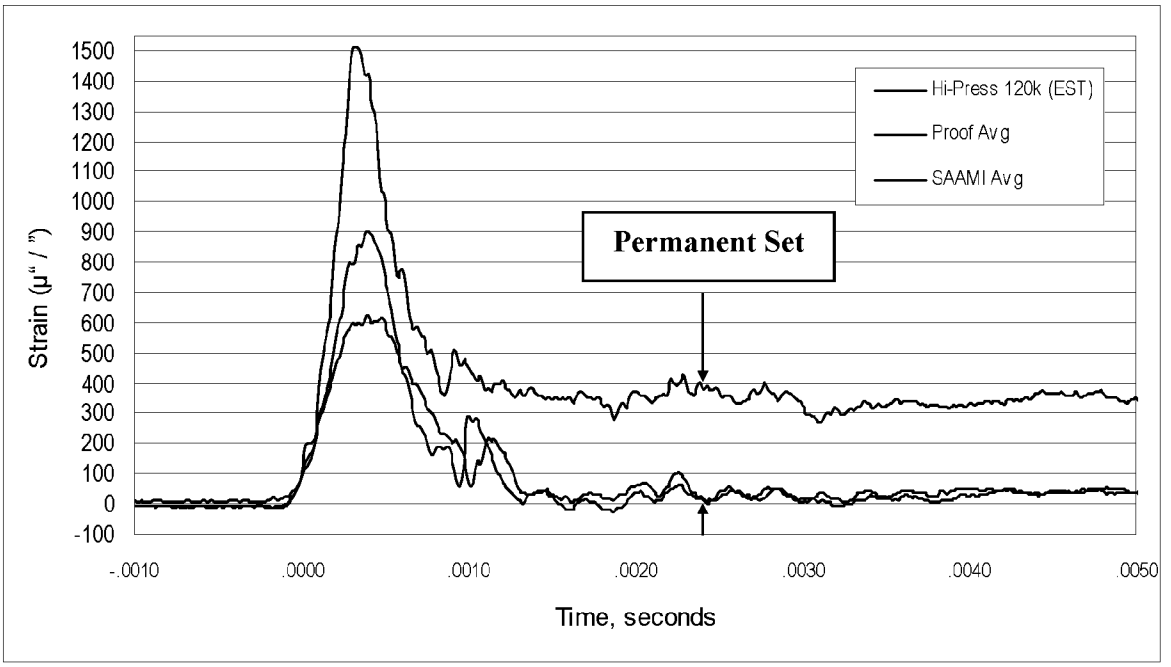

Figure 11: Strain Data for Abusive testing of gun A9.

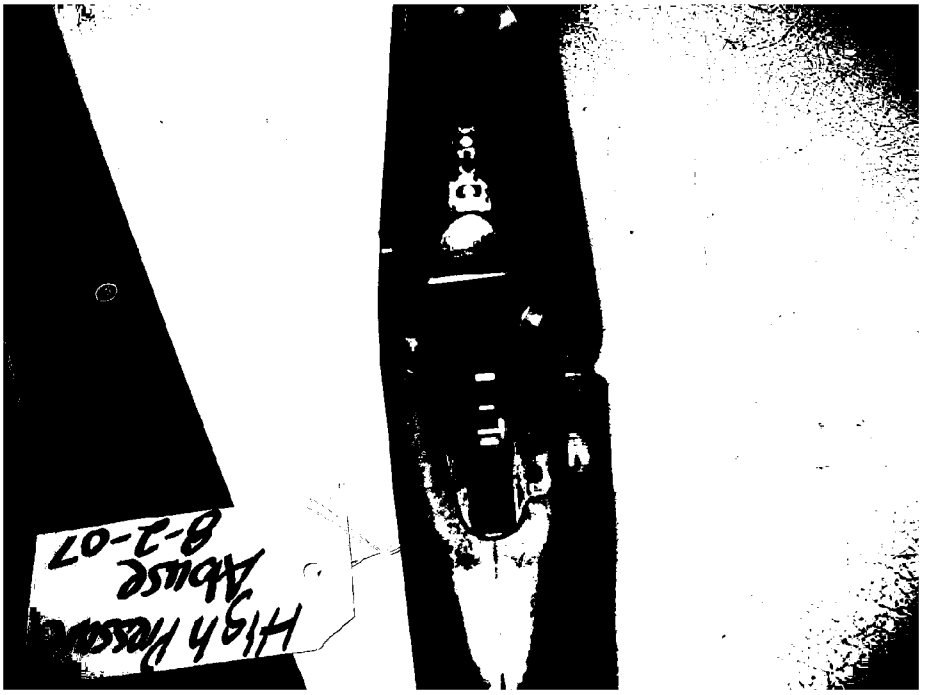

Figure 12: Gun A9 post abusive testing.

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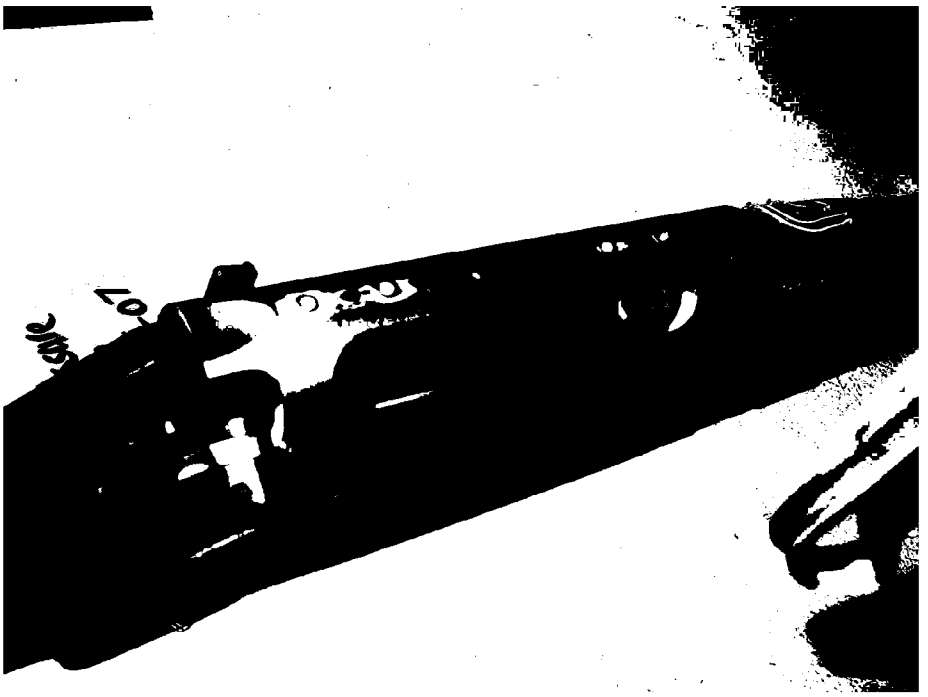

Figure 13: Gun A9 post abusive testing.

Figure 14: Gun A9 post abusive testing.

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Engineer:	James Urbon
Project #:	
TLW #:	2305
Date Submitted:	6/26/2007
Requested Completion Date:	7/6/2007
Completion Date Justification:	
Test Description:	T&P test of Stainless Steel Barreled M/770 rifles.

Test Procedure:

- Any questions should be directed to James Urbon. If any clarification is required, please ask don't assume.
- Record all test progress and data on a Daily Log Sheet and in this TLW.
- Label rifles (All)
  - Label with the standard information; serial number, model number, TLW number, and Test ID number
  - Label the 300 Win Mag rifles with ID #'s A1, A2, etc.
  - Label the 30-06 rifles with ID #'s B1, B2, etc.
  - Label the 243 Win Youth rifles with ID #'s C1, C2, etc.
- Initial Measurement and Inspection. (All)
  - Generally visually inspect the overall condition of all of the rifles. Note and photograph any anomalies.
  - Measure the trigger pull on all of the rifles using the Dvorak.
  - Perform a safety function test on all of the rifles.
  - Measure the depth of the front take down screw hole located in the barrel on all of the rifles.
  - For rifles A1 – A3, B1 – B3, and C1 – C3, Measure the chamber dimension via chamber cast. Measure the bore and groove dimensions using best method available. Measure twist rate using best method available.
- Head Space / Proof / Head Space (All)
  - Measure and record headspace using chamber shoulder head space gauges.
  - Fire one standard proof cartridge per rifle in controlled environment via lanyard.
  - Measure and record headspace using chamber shoulder head space gauges following proof test.
- Extended Proof (A7)
  - Fire 100 standard proof cartridges in rifle A7.
  - Measure and record the head space using chamber shoulder head space gauges after every round for the first 10 rounds, then after every 5 rounds until round level 50 and then after every 10 rounds until the end of the test.
- Hi-Pressure:
  - Shoot 3 rds @ 60gr / 65gr & 1 @ 70gr > determine final load @ 120kpsi. >1 Aug 07
  - Fire 1 @ 71.5gr (120kpsi) 2 Aug 07 fired round. Gun: 300WM / A9 - 71378962
  - Video loc: Etownadc1/HighSpeedVideo/Tlw2305

Special Requirements:	
Supplies Availability:	
Results Required:	Formal Report

********This section to be completed by Test Lab Manager*******

Assigned To:	Sims, Jonathan	**Start Date:**	
Assigned Date:	6/28/2007	**Completion Date:**	
Comments:			

- Accuracy (A1-6, B1-6, C1-6)
  - Clean and inspect each rifle prior to testing.
  - Shoot at a minimum five shoot to sight in and foul the rifle. Fire additional shots if required to sight in the rifle. Record the exact number of rounds fired.
  - Fire 3 five shot groups for each rifle at 100 yards.
  - Keep track of and mark the placement of each shot in each group. Number the shots in each group 1 – 5 in the order in which they were fired.
  - Measure and record the three shot group size in each group using shots 1 – 3.
  - Measure and record the five shot group size in each group using all five shots fired.
  - All groups are to be measured center to center.
  - Clean and inspect each rifle after completion of testing.
- Endurance (A1-6, B1-6, C1-6)
  - In each series, the guns are to be fired to the following round levels.
    - Guns 1 & 2 to 2000 RL.
    - Guns 3 & 4 to 1000 RL.
    - Guns 5 & 6 to 500 RL.
  - All guns are to be cooled to the touch every 20 rounds via shop air.
  - All guns are to be cleaned and inspected every 500 rounds.
- Metallurgical Evaluation
  - A sample of the endurance guns will be disassembled and have there barrels sectioned and mounted to check for possible barrel cracking and locking lug hardness.
- Environmental Testing (A8, B8)
  - Perform standard Hot test..
  - Perform standard Cold test.
  - Perform standard Thermal Cycle test.
- Dry Cycle (B7)
  - Dry cycle gun 10,000 cycles.
  - Lubricate gun every 500 cycles.
  - Photograph any wear every 1000 cycles.
- High Pressure Abuse (A9)
  - Perform standard high pressure abuse test.
    - See S. Franz / J. Urbon for details.

Engineer:	James Urbon
Project #:	241230
TLW #:	2359
Date Submitted:	8/29/2007
Requested Completion Date:	9/21/2007
Test Description:	T&P follow up testing on 270 Win and 7mm Rem Mag M/770 Stainless Steel Rifles.

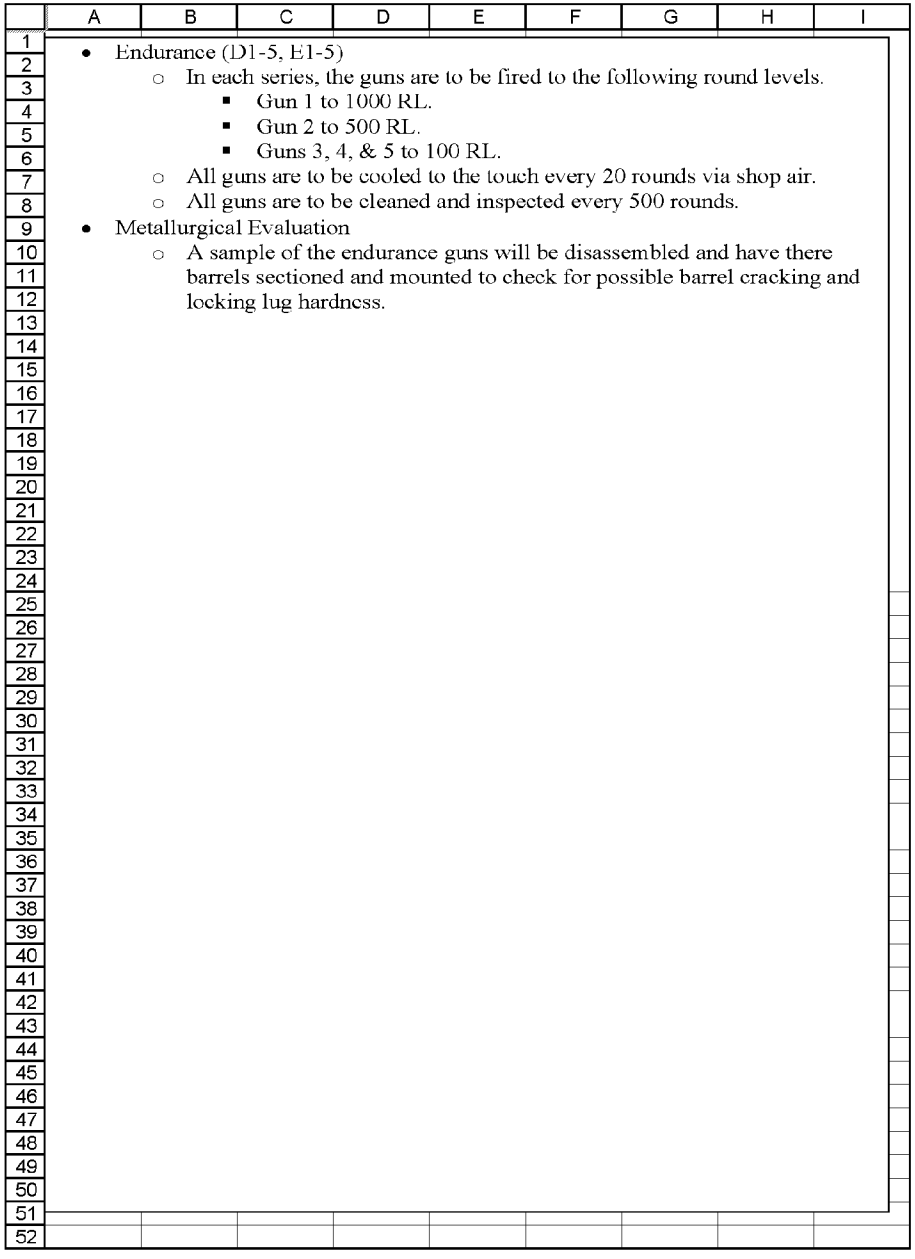
Test Procedure:

- Any questions should be directed to James Urbon. If any clarification is required, please ask don't assume.
- Record all test progress and data on a Daily Log Sheet and in this TLW.
- Label rifles (All)
  - Label with the standard information; serial number, model number, TLW number, and Test ID number
  - Label the 7mm Rem Mag rifles with ID #'s D1, D2, etc.
  - Label the 270 Win. rifles with ID #'s E1, E2, etc.
- Initial Measurement and Inspection. (All)
  - Generally visually inspect the overall condition of all of the rifles. Note and photograph any anomalies.
  - Measure the trigger pull on all of the rifles using the Spring Scale.
  - Perform a safety function test on all of the rifles.
- Head Space / Proof / Head Space (All)
  - Measure and record headspace using chamber shoulder head space gauges.
  - Fire one standard proof cartridge per rifle in controlled environment via lanyard.
  - Measure and record headspace using chamber shoulder head space gauges following proof test.
- Accuracy (D1-5, E1-5)
  - Clean and inspect each rifle prior to testing.
  - Shoot at a minimum five shoot to sight in and foul the rifle. Fire additional shots if required to sight in the rifle. Record the exact number of rounds fired.
  - Fire 3 five shot groups for each rifle at 100 yards.
  - Keep track of and mark the placement of each shot in each group. Number the shots in each group 1 – 5 in the order in which they were fired.
  - Measure and record the three shot group size in each group using shots 1 – 3.
  - Measure and record the five shot group size in each group using all five shots fired.
  - All groups are to be measured center to center.
  - Clean and inspect each rifle after completion of testing.

Special Requirements:		
Supplies Availability:		
Results Required:	Formal Report	

********This section to be completed by Test Lab Manager*******

Assigned To:	Lee, Bob	**Start Date:**	9/4/2007
Assigned Date:	8/30/2007	**Completion Date:**	9/10/2007
Comments:			



- Endurance (D1-5, E1-5)
  - In each series, the guns are to be fired to the following round levels.
    - Gun 1 to 1000 RL.
    - Gun 2 to 500 RL.
    - Guns 3, 4, & 5 to 100 RL.
  - All guns are to be cooled to the touch every 20 rounds via shop air.
  - All guns are to be cleaned and inspected every 500 rounds.
- Metallurgical Evaluation
  - A sample of the endurance guns will be disassembled and have there barrels sectioned and mounted to check for possible barrel cracking and locking lug hardness.

	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW
5	Model 770 Stainless Steel Trial and Pilot Testing Summary																																															
6										TLW 2305																																										
7	Caliber									300 Win Mag										30-06									243 Youth									7mm Rem Mag				270 Win					
8	Serial #									71378664	71378765	71378946	71378961	71378967	71378751	71378790	71378795	71378962	71378963	71378563	71378643	71378645	71378789	71378951	71378741	71378763	71378768	71378856	71378960	71378661	71378750	71378778	71378875	71378965	71378780	71378796	71378878	71380501	71384667	71384729	71385284	71385225	71390508	71384790	71384941	71385409	71386441
9	Test Discription \ Gun ID #									A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	C1	C2	C3	C4	C5	C6	C7	C8	D1	D2	D3	D4	D5	E1	E2	E3	E4	E5
10	Visual Inspection									O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
11	Trigger Pull									O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
12	Safety Function									O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
13	Front take down screw hole depth									O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O										
14	Chamber and Bore Dimensions									O	O	O								O	O	O								O	O	O															
15	HS - Proof - HS									O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	Ø	O	O	O	O	O	O	O	O	O	O	O	O
16	Extended Proof															O																																
17	Accuracy									O	O	O	O	O	O					O	O	O	O	O	O					O	O	O	O	O	O				O	O	O			O	O	O
18	Endurance to 100 RL									O	O	O	O	O	O					O	O	O	O	O	O					O	O	O	O	O	O			O	O	O	O	O	O	O	O	O
19	Endurance to 500 RL									O	O	O	O	O	O					O	O	O	O	O	O					O	O	O	O	O	O			O	O				O	O			
20	Endurance to 1000 RL									O	O	O	O							O	O	O	O							O	O	O	O					O					O				
21	Endurance to 2000 RL									O	O									O	O									O	O																
22	Hot Function																										O								O											
23	Cold Function																										O								O											
24	Thremal Cycle																										Ø								Ø											
25	Metallurgical Evaulation of Barrel									O										O										O								O					O				
26	Dry Cycle																									O																				
27	High Pressure Abuse																	O																												
28	Final Round Level									2021	2021	1021	1021	521	521	101	1	1 +	1	2021	2021	1021	1021	521	521	1 +	201	1	1	2021	2021	1021	1021	521	521	0	201	1001	501	120	120	121	1001	501	119	122	122
29	**LEGEND**									O	= Planned					O	= In-Progress			O	= Completed & Passed							O	= Completed Failed						Ø	= Cancelled				= Not Planned					

Gun ID	Serial #	Cal	Visual Inspection	Safety Fcn Check	Hole Depth
A1	71378664	300 Win Mag	OK	OK	0.136
A2	71378765	300 Win Mag	OK	OK	0.138
A3	71378946	300 Win Mag	OK	OK	0.137
A4	71378961	300 Win Mag	OK	OK	0.139
A5	71378967	300 Win Mag	OK	OK	0.138
A6	71378751	300 Win Mag	OK	OK	0.135
A7	71378790	300 Win Mag	OK	OK	0.14
A8	71378795	300 Win Mag	OK	OK	0.142
A9	71378962	300 Win Mag	OK	OK	0.139
A10	71378963	300 Win Mag	OK	OK	0.14
B1	71378563	30-06	OK	OK	0.222
B2	71378643	30-06	OK	OK	0.222
B3	71378645	30-06	OK	OK	0.22
B4	71378789	30-06	OK	OK	0.223
B5	71378951	30-06	OK	OK	0.22
B6	71378741	30-06	OK	OK	0.221
B7	71378763	30-06	OK	OK	0.227
B8	71378768	30-06	OK	OK	0.224
B9	71378856	30-06	OK	OK	0.224
B10	71378960	30-06	Bolt diff to close	OK	0.219
C1	71378661	243 Youth	OK	OK	0.22
C2	71378750	243 Youth	OK	OK	0.217
C3	71378778	243 Youth	OK	OK	0.217
C4	71378875	243 Youth	OK	OK	0.222
C5	71378965	243 Youth	OK	OK	0.219
C6	71378780	243 Youth	OK	OK	0.216
C7	71378796	243 Youth	Old Vint FP Head	OK	0.213
C8	71378878	243 Youth	OK	OK	0.219

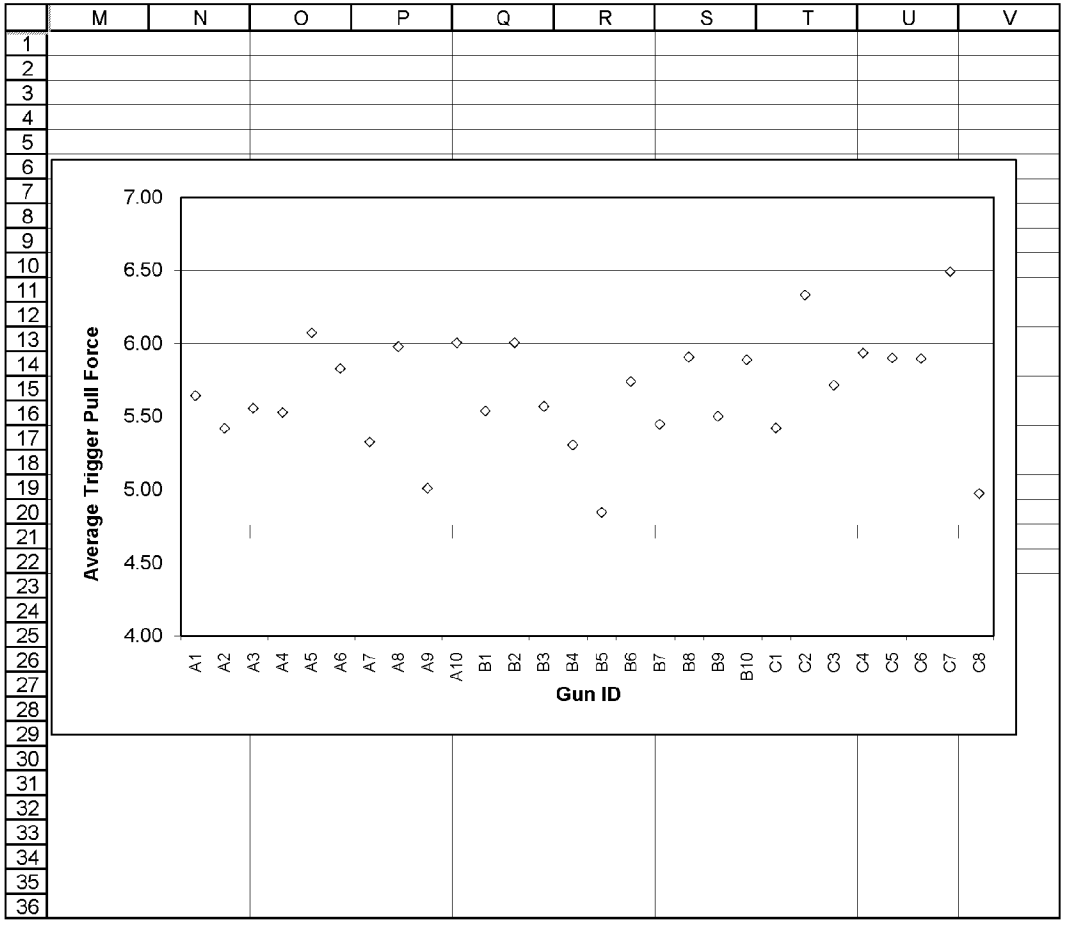
Max hole depth per Print	0.145
Average measured hole depth	0.1384
Max measured hole depth	0.142

Max hole depth per Print	0.227
Average measured hole depth	0.2222
Max measured hole depth	0.227

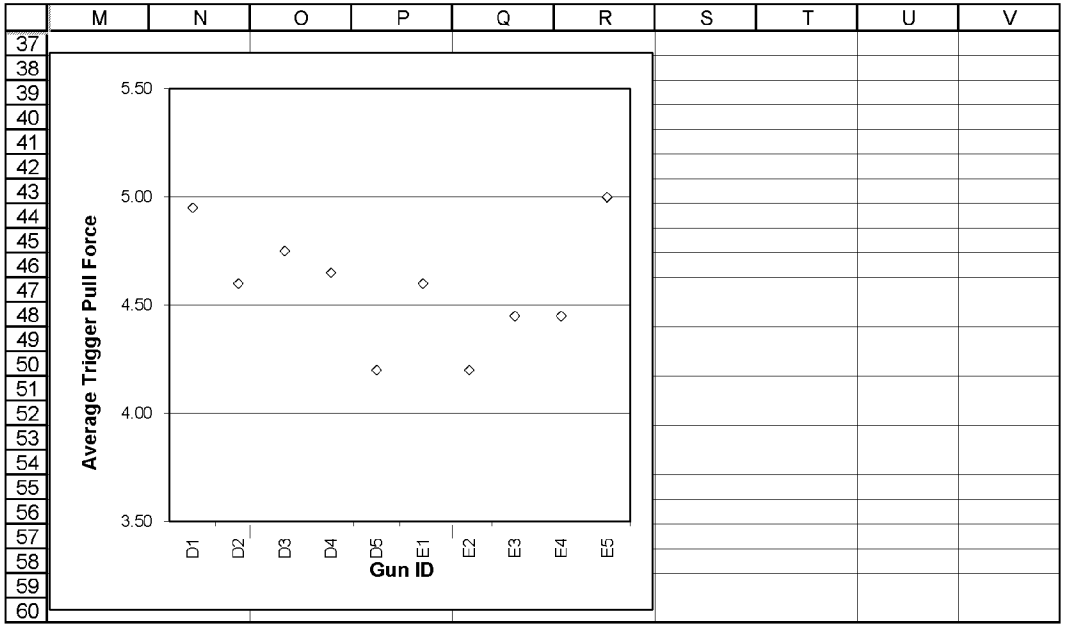
Max hole depth per Print	0.227	
Average measured hole depth	0.217875	0.220278
Max measured hole depth	0.222	0.227

Gun ID	Serial #	Cal	Visual Inspection	Safety Fcn Check
D1	71380501	7mm Rem Mag	GOOD	GOOD
D2	71384667	7mm Rem Mag	GOOD	GOOD
D3	71384729	7mm Rem Mag	GOOD	GOOD
D4	71385284	7mm Rem Mag	GOOD	GOOD
D5	71385225	7mm Rem Mag	GOOD	GOOD
E1	71390508	270 Win	GOOD	GOOD
E2	71384790	270 Win	GOOD	GOOD
E3	71384941	270 Win	GOOD	GOOD
E4	71385409	270 Win	GOOD	GOOD
E5	71386441	270 Win	GOOD	GOOD

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3												
4					Trigger Pull							
5				Gun ID	#1	#2	#3	#4	#5	Avg		
6				A1	5.509	5.837	5.588	5.569	5.719	5.64		
7				A2	5.248	5.706	4.986	5.607	5.552	5.42		
8				A3	4.909	5.123	6.217	5.756	5.777	5.56		
9				A4	5.709	5.58	5.494	5.443	5.415	5.53		
10				A5	6.15	6.059	6.075	6.029	6.047	6.07		
11				A6	5.917	5.964	5.872	5.712	5.676	5.83		
12				A7	5.393	5.463	5.262	5.308	5.202	5.33		
13				A8	5.842	5.842	6.736	5.75	5.724	5.98		
14				A9	5.064	4.911	4.824	5.042	5.204	5.01		
15				A10	6.147	6.25	6.05	5.853	5.72	6.00		
16				B1	5.542	5.749	5.501	5.466	5.43	5.54		
17				B2	6.091	6.142	6.02	5.945	5.836	6.01		
18				B3	5.447	5.712	5.627	5.444	5.618	5.57		
19				B4	5.435	5.272	5.21	5.333	5.281	5.31		
20				B5	4.8	4.798	5.02	4.628	4.977	4.84		
21				B6	5.86	5.829	5.936	5.637	5.447	5.74		
22				B7	5.528	5.604	5.484	5.28	5.348	5.45		
23				B8	5.977	6.161	5.929	5.958	5.508	5.91		
24				B9	5.612	5.501	5.48	5.52	5.39	5.50		
25				B10	5.972	5.761	6.269	5.672	5.772	5.89		
26				C1	5.164	5.729	5.642	5.122	5.462	5.42		
27				C2	6.322	6.505	6.345	6.226	6.272	6.33		
28				C3	5.869	5.678	5.658	5.542	5.836	5.72		
29				C4	6.067	5.997	5.939	5.912	5.767	5.94		
30				C5	5.974	5.95	5.926	5.784	5.88	5.90		
31				C6	5.92	5.623	5.855	5.685	6.398	5.90		
32				C7	6.791	6.315	6.279	6.583	6.49	6.49		
33				C8	5.007	4.893	5.031	4.909	5.04	4.98		
34										5.67	Average	
35										0.39		
36												


Average Trigger Pull Force
7.00
6.50
6.00
5.50
5.00
4.50
4.00
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 C1 C2 C3 C4 C5 C6 C7 C8
Gun ID

	A	B	C	D	E	F	G	H	I	J	K	L
37				D1	5	5	5	4.75	5	4.95		
38				D2	4.5	4.5	4.75	4.5	4.75	4.60		
39				D3	4.76	4.75	4.5	5	4.75	4.75		
40				D4	4.5	4.75	4.75	4.75	4.5	4.65		
41				D5	4	4.25	4	4.5	4.25	4.20		
42				E1	4.75	4.75	4.5	4.5	4.5	4.60		
43				E2	4.25	4.25	4.25	4.25	4	4.20		
44				E3	4.25	4.5	4.25	4.5	4.75	4.45		
45				E4	4	4.75	4.25	4.5	4.75	4.45		
46				E5	5	5	5	5	5	5.00		
47										4.54	Average	
48										0.27		
49												
50												
51												
52												
53												
54												
55												
56												
57												
58												
59												
60												

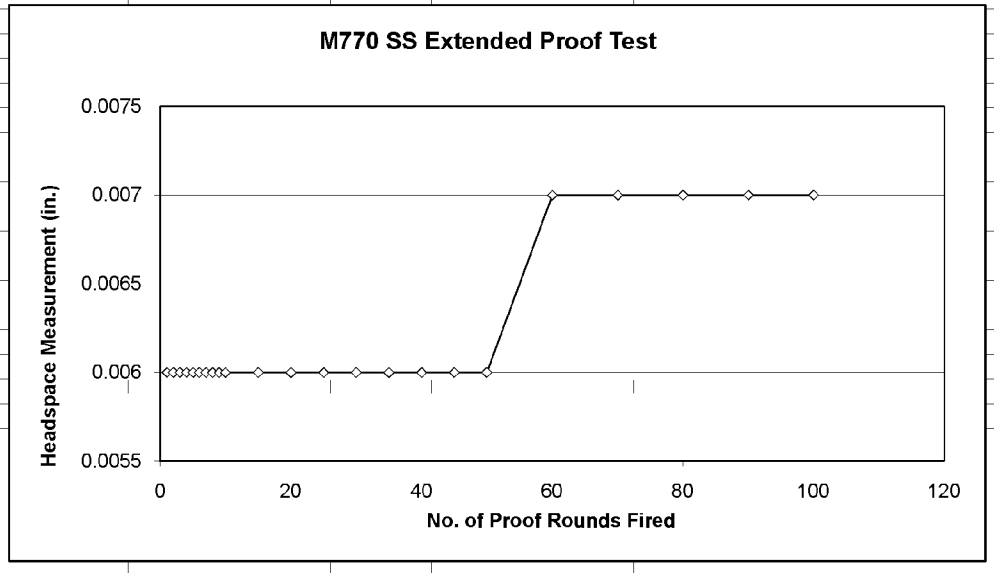

Average Trigger Pull Force
5.50
5.00
4.50
4.00
3.50
D1
D2
D3
D4
D5
E1
E2
E3
E4
E5
Gun ID

	A	B	C	D	E	F	G	H
1								
2								
3								
4								
5								
6								
7								
8								
9			Chamber Castings					
10			Note: + Guages were utilized to measure the bore dia.					
11								
12						A-1	A-2	A-3
13			A			0.4932	0.4922	0.493
14			B			0.5157	0.5164	0.5148
15			C			0.5459	0.5451	0.5459
16			D			0.3442	0.3438	0.3436
17			E			0.3432	0.3428	0.3428
18			F			0.3172	0.3175	0.3139
19			G			0.3093	0.3095	0.3102
20			H			0.3	0.3	0.3
21			Twist Rate			1:10"	1:10"	1:10"
22								
23								
24								
25								
26						B-1	B-2	B-3
27						0.4456	0.4453	0.4453
28						0.4725	0.474	0.4704
29						0.3432	0.3428	0.3431
30						0.3107	0.3105	0.3108
31						0.3074	0.3097	0.31
32						0.3	0.3	0.3
33								
34								
35						1:10"	1:10"	1:10"
36								
37								
38								
39								
40						C-1	C-2	C-3
41						0.457	0.4571	0.4577
42						0.4638	0.472	0.4736
43						0.2789	0.2783	0.2794
44						0.2413	0.2447	0.2444
45						0.2435	0.244	0.2433
46						0.237	0.237	0.237
47								
48								
49						1:9"	1:9"	1:9"

	A	B	C	D	E	F	G
1							
2							
3		Gun ID	Cal	Head Space before Proof	Head Space after Proof	Head Space Growth	Condition of Proof Case
4		A1	300 Win Mag	0.005	0.005	0.000	O.K.
5		A2	300 Win Mag	0.005	0.006	0.001	O.K.
6		A3	300 Win Mag	0.005	0.006	0.001	O.K.
7		A4	300 Win Mag	0.005	0.006	0.001	O.K.
8		A5	300 Win Mag	0.005	0.005	0.000	O.K.
9		A6	300 Win Mag	0.005	0.005	0.000	O.K.
10		A7	300 Win Mag	0.005	0.006	0.001	O.K.
11		A8	300 Win Mag	0.006	0.006	0.000	O.K.
12		A9	300 Win Mag	0.005	0.005	0.000	O.K.
13		A10	300 Win Mag	0.005	0.006	0.001	O.K.
14		B1	30-06	0.003	0.004	0.001	O.K.
15		B2	30-06	0.003	0.003	0.000	O.K.
16		B3	30-06	0.003	0.004	0.001	O.K.
17		B4	30-06	0.004	0.004	0.000	O.K.
18		B5	30-06	0.004	0.004	0.000	O.K.
19		B6	30-06	0.002	0.002	0.000	O.K.
20		B7	30-06	0.002	0.002	0.000	O.K.
21		B8	30-06	0.002	0.002	0.000	O.K.
22		B9	30-06	0.002	0.002	0.000	O.K.
23		B10	30-06	Min.	0.002	0.002	O.K.
24		C1	243 Youth	0.003	0.003	0.000	O.K.
25		C2	243 Youth	0.003	0.003	0.000	O.K.
26		C3	243 Youth	0.003	0.003	0.000	O.K.
27		C4	243 Youth	0.003	0.003	0.000	O.K.
28		C5	243 Youth	0.003	0.003	0.000	O.K.
29		C6	243 Youth	0.004	0.004	0.000	O.K.
30		C7	243 Youth	Out of test	Out of test	Out of test	Out of test
31		C8	243 Youth	0.003	0.003	0.000	O.K.
32		D1	7mm Rem Mag	0.002	0.002	0.000	O.K.
33		D2	7mm Rem Mag	0.002	0.003	0.001	O.K.
34		D3	7mm Rem Mag	0.003	0.004	0.001	O.K.
35		D4	7mm Rem Mag	0.002	0.002	0.000	O.K.
36		D5	7mm Rem Mag	0.002	0.003	0.001	O.K.
37		E1	270 Win	0.002	0.002	0.000	O.K.
38		E2	270 Win	0.001	0.002	0.001	O.K.
39		E3	270 Win	0.003	0.003	0.000	O.K.
40		E4	270 Win	0.002	0.004	0.002	O.K.
41		E5	270 Win	0.003	0.003	0.000	O.K.

Extended Proof

Gun I.D.	A-7(.300Win.Mag.)
1	0.006
2	0.006
3	0.006
4	0.006
5	0.006
6	0.006
7	0.006
8	0.006
9	0.006
10	0.006
15	0.006
20	0.006
25	0.006
30	0.006
35	0.006
40	0.006
45	0.006
50	0.006
60	0.007
70	0.007
80	0.007
90	0.007
100	0.007



TLW 2305
Guns A1-6, B1-6, C1-6
Shooter: J. Sims
Ammo type. R300W2, R30065, R243W3
Note: Accuracy was shot at 100yds. From bench, utilizing standard 3 X 9 Bushnell scope provided with firearm.
Data recorded with Oehler Accustic target
*A1 was not recorded with Oehler, measured grps. From paper target.
C1 group 1 was a four shot group.

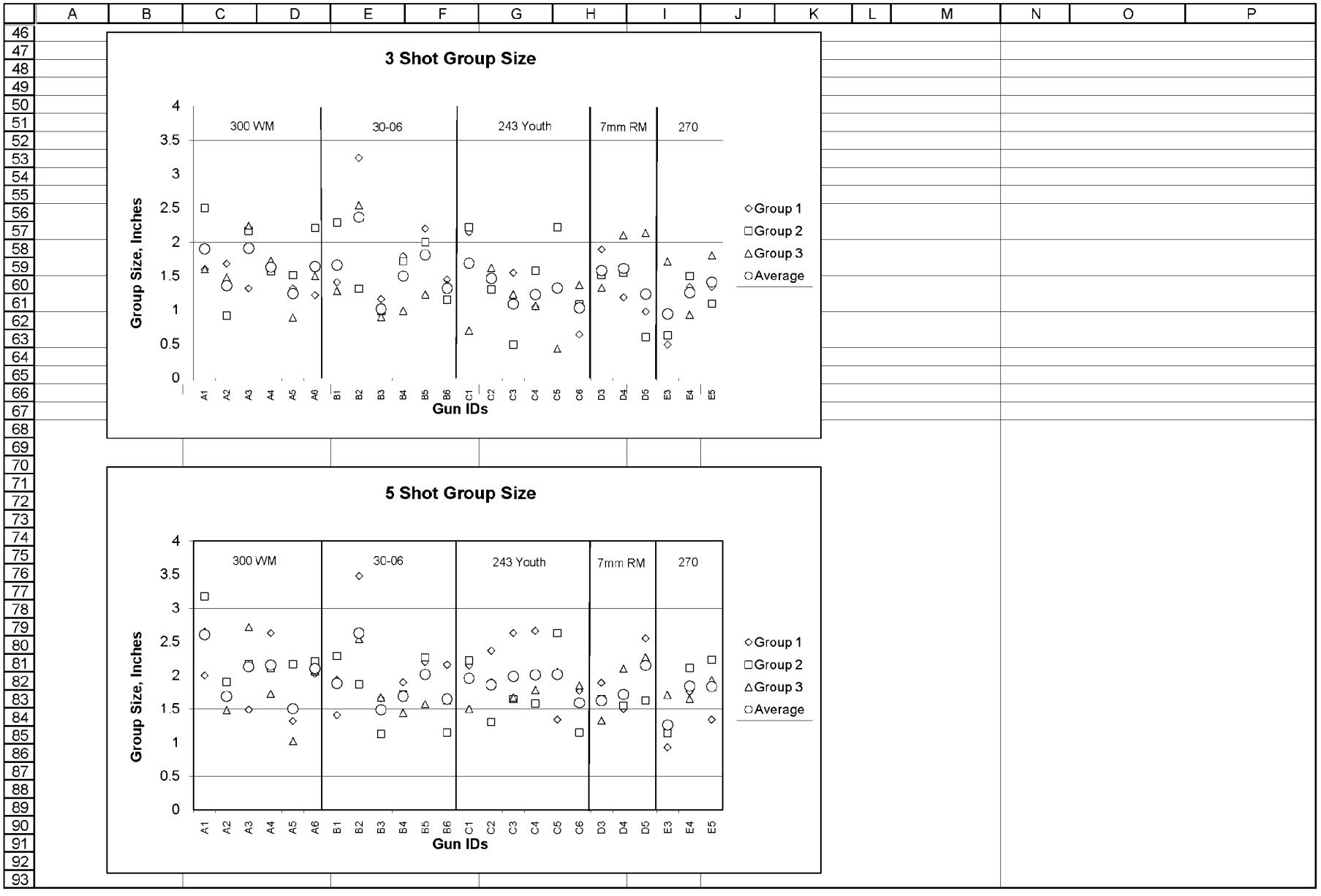
TLW 2359
Guns D3-5, E3-5
Shooter: PKR
Ammo type. 270 Win 130 PSP CL R270W2 C20-VAI
7mm Rem Mag 150 PSP CL R7mmm2 C13-VB1
Note: Accuracy was shot at 100yds. From bench, utilizing standard 3 X 9 Bushnell scope provided with firearm.
Groups were measured directly from paper targets.

	3 shot groups				**5 shot groups**			
	Group 1	Group 2	Group 3	Average	Group 1	Group 2	Group 3	Average
A1	1.6	2.5	1.6	1.90	2	3.175	2.65	2.61
A2	1.68	0.92	1.48	1.36	1.68	1.9	1.48	1.69
A3	1.32	2.17	2.24	1.91	1.49	2.17	2.72	2.13
A4	1.6	1.57	1.73	1.63	2.63	2.11	1.73	2.16
A5	1.32	1.52	0.89	1.24	1.32	2.17	1.02	1.50
A6	1.22	2.21	1.5	1.64	2.03	2.21	2.06	2.10
B1	1.41	2.29	1.28	1.66	1.41	2.29	1.94	1.88
B2	3.24	1.32	2.54	2.37	3.48	1.87	2.54	2.63
B3	1.16	0.99	0.9	1.02	1.66	1.13	1.67	1.49
B4	1.79	1.72	0.99	1.50	1.9	1.72	1.44	1.69
B5	2.2	2	1.23	1.81	2.2	2.27	1.57	2.01
B6	1.45	1.15	1.37	1.32	2.16	1.15	1.63	1.65
C1	2.15	2.22	0.7	1.69	2.15	2.22	1.5	1.96
C2	1.47	1.31	1.62	1.47	2.37	1.31	1.9	1.86
C3	1.55	0.49	1.23	1.09	2.63	1.65	1.67	1.98
C4	1.05	1.58	1.06	1.23	2.66	1.58	1.78	2.01
C5	1.34	2.22	0.43	1.33	1.34	2.63	2.06	2.01
C6	0.64	1.09	1.37	1.03	1.77	1.15	1.85	1.59
D3	1.89	1.52	1.33	1.58	1.89	1.65	1.33	1.62
D4	1.19	1.55	2.1	1.61	1.5	1.55	2.1	1.72
D5	0.98	0.6	2.13	1.24	2.55	1.63	2.27	2.15
E3	0.49	0.63	1.71	0.94	0.93	1.14	1.71	1.26
E4	1.34	1.5	0.93	1.26	1.76	2.11	1.65	1.84
E5	1.34	1.1	1.8	1.41	1.34	2.23	1.93	1.83

Overall Average group size

Series		A	B
Caliber		300 Win Mag	30-06 Sprg
E town			
3 shot	Avg	1.62	1.61
	Std Dev	0.44	0.63
5 shot	Avg	2.03	1.89
	Std Dev	0.54	0.56
# of guns fired		6	6

	Q	R	S	T
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22	C	D	E	All
23	243 Win Youth	7mm Rem Mag	270 Win	
24				
25				
26	1.31	1.48	1.20	1.47
27	0.55	0.51	0.46	0.54
28	1.90	1.83	1.64	1.89
29	0.47	0.40	0.44	0.50
30				
31	6	3	3	
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				


3 Shot Group Size
Group Size, Inches
4
3.5
3
2.5
2
1.5
1
0.5
0
300 WM
30-06
243 Youth
7mm RM
270
A1 A2 A3 A4 A5 A6 B1 B2 B3 B4 B5 B6 C1 C2 C3 C4 C5 C6 D3 D4 D5 E3 E4 E5
Gun IDs
Group 1
Group 2
Group 3
Average
5 Shot Group Size
Group Size, Inches
4
3.5
3
2.5
2
1.5
1
0.5
0
300 WM
30-06
243 Youth
7mm RM
270
A1 A2 A3 A4 A5 A6 B1 B2 B3 B4 B5 B6 C1 C2 C3 C4 C5 C6 D3 D4 D5 E3 E4 E5
Gun IDs
Group 1
Group 2
Group 3
Average

	A	B	C	D	E	F	G	H	I	J
1		GUN PERFORMANCE								
2		CALIBER	LOG DATE	STAMP#	SERIAL#	GROUP SIZE	ROUNDS	DISTANCE	STATUS	
3	1	M770 SS 300 WIN MAG	06/20/07	70	71378558	1.6250	3	100	PASS	
4	2	M770 SS 300 WIN MAG	06/21/07	66	71378562	1.7500	3	100	PASS	
5	3	M770 SS 300 WIN MAG	06/20/07	70	71378567	1.7500	3	100	PASS	
6	4	M770 SS 300 WIN MAG	06/21/07	66	71378568	1.2500	3	100	PASS	
7	5	M770 SS 300 WIN MAG	06/20/07	70	71378570	1.1250	3	100	PASS	
8	6	M770 SS 300 WIN MAG	06/21/07	12	71378571	1.2500	3	100	PASS	
9	7	M770 SS 300 WIN MAG	06/21/07	66	71378573	1.2500	3	100	PASS	
10	8	M770 SS 300 WIN MAG	06/21/07	66	71378641	0.8750	3	100	PASS	
11	9	M770 SS 300 WIN MAG	06/21/07	66	71378642	1.5000	3	100	PASS	
12	10	M770 SS 300 WIN MAG	06/20/07	70	71378644	1.7500	3	100	PASS	
13	11	M770 SS 300 WIN MAG	06/21/07	12	71378646	1.3750	3	100	PASS	
14	12	M770 SS 300 WIN MAG	06/20/07	70	71378649	1.2500	3	100	PASS	
15	13	M770 SS 300 WIN MAG	06/21/07	66	71378650	1.0000	3	100	PASS	
16	14	M770 SS 300 WIN MAG	06/21/07	12	71378651	2.2500	3	100	PASS	
17	15	M770 SS 300 WIN MAG	06/20/07	70	71378659	1.2500	3	100	PASS	
18	16	M770 SS 300 WIN MAG	06/20/07	70	71378664	1.6250	3	100	PASS	
19	17	M770 SS 300 WIN MAG	06/20/07	70	71378665	1.7500	3	100	PASS	
20	18	M770 SS 300 WIN MAG	06/20/07	70	71378666	1.6250	3	100	PASS	
21	19	M770 SS 300 WIN MAG	06/20/07	70	71378667	1.7500	3	100	PASS	
22	20	M770 SS 300 WIN MAG	06/21/07	66	71378669	1.5000	3	100	PASS	
23	21	M770 SS 300 WIN MAG	06/21/07	66	71378730	1.0000	3	100	PASS	
24	22	M770 SS 300 WIN MAG	06/21/07	66	71378731	1.6250	3	100	PASS	
25	23	M770 SS 300 WIN MAG	06/21/07	66	71378733	1.2500	3	100	PASS	
26	24	M770 SS 300 WIN MAG	06/21/07	66	71378734	1.6250	3	100	PASS	
27	25	M770 SS 300 WIN MAG	06/20/07	70	71378736	1.7500	3	100	PASS	
28	26	M770 SS 300 WIN MAG	06/21/07	66	71378738	1.0000	3	100	PASS	
29	27	M770 SS 300 WIN MAG	06/21/07	66	71378739	0.7500	3	100	PASS	
30	28	M770 SS 300 WIN MAG	06/21/07	66	71378740	1.1250	3	100	PASS	
31	29	M770 SS 300 WIN MAG	06/21/07	66	71378745	1.2500	3	100	PASS	
32	30	M770 SS 300 WIN MAG	06/21/07	66	71378749	1.3750	3	100	PASS	
33	31	M770 SS 300 WIN MAG	06/21/07	66	71378751	1.3750	3	100	PASS	
34	32	M770 SS 300 WIN MAG	06/21/07	66	71378752	1.7500	3	100	PASS	
35	33	M770 SS 300 WIN MAG	06/21/07	12	71378756	1.0000	3	100	PASS	
36	34	M770 SS 300 WIN MAG	06/20/07	70	71378757	1.3750	3	100	PASS	
37	35	M770 SS 300 WIN MAG	06/21/07	66	71378758	1.1250	3	100	PASS	
38	36	M770 SS 300 WIN MAG	06/20/07	70	71378759	1.7500	3	100	PASS	
39	37	M770 SS 300 WIN MAG	06/21/07	66	71378761	1.3750	3	100	PASS	
40	38	M770 SS 300 WIN MAG	06/20/07	70	71378762	1.3750	3	100	PASS	
41	39	M770 SS 300 WIN MAG	06/20/07	70	71378765	1.2500	3	100	PASS	
42	40	M770 SS 300 WIN MAG	06/21/07	12	71378767	1.7500	3	100	PASS	
43	41	M770 SS 300 WIN MAG	06/20/07	70	71378769	1.1250	3	100	PASS	
44	42	M770 SS 300 WIN MAG	06/21/07	12	71378772	1.6250	3	100	PASS	
45	43	M770 SS 300 WIN MAG	06/20/07	70	71378774	0.8125	3	100	PASS	
46	44	M770 SS 300 WIN MAG	06/21/07	66	71378775	1.5000	3	100	PASS	
47	45	M770 SS 300 WIN MAG	06/20/07	70	71378776	1.1250	3	100	PASS	
48	46	M770 SS 300 WIN MAG	06/20/07	70	71378779	0.8750	3	100	PASS	

	A	B	C	D	E	F	G	H	I	J
1		GUN PERFORMANCE								
2		CALIBER	LOG DATE	STAMP#	SERIAL#	GROUP SIZE	ROUNDS	DISTANCE	STATUS	
49	47	M770 SS 300 WIN MAG	06/20/07	70	71378781	1.6250	3	100	PASS	
50	48	M770 SS 300 WIN MAG	06/20/07	70	71378782	0.7500	3	100	PASS	
51	49	M770 SS 300 WIN MAG	06/21/07	66	71378783	1.7500	3	100	PASS	
52	50	M770 SS 300 WIN MAG	06/20/07	70	71378785	1.3750	3	100	PASS	
53	51	M770 SS 300 WIN MAG	06/21/07	66	71378786	1.3750	3	100	PASS	
54	52	M770 SS 300 WIN MAG	06/20/07	70	71378790	0.8750	3	100	PASS	
55	53	M770 SS 300 WIN MAG	06/21/07	66	71378791	0.7500	3	100	PASS	
56	54	M770 SS 300 WIN MAG	06/21/07	12	71378792	1.1250	3	100	PASS	
57	55	M770 SS 300 WIN MAG	06/21/07	66	71378794	1.1250	3	100	PASS	
58	56	M770 SS 300 WIN MAG	06/21/07	12	71378795	1.2500	3	100	PASS	
59	57	M770 SS 300 WIN MAG	06/21/07	66	71378797	1.0000	3	100	PASS	
60	58	M770 SS 300 WIN MAG	06/20/07	70	71378798	0.8750	3	100	PASS	
61	59	M770 SS 300 WIN MAG	06/20/07	70	71378799	1.2500	3	100	PASS	
62	60	M770 SS 300 WIN MAG	06/20/07	70	71378803	1.3750	3	100	PASS	
63	61	M770 SS 300 WIN MAG	06/20/07	70	71378804	1.0000	3	100	PASS	
64	62	M770 SS 300 WIN MAG	06/20/07	70	71378805	0.9375	3	100	PASS	
65	63	M770 SS 300 WIN MAG	06/21/07	66	71378807	1.2500	3	100	PASS	
66	64	M770 SS 300 WIN MAG	06/21/07	12	71378808	1.7500	3	100	PASS	
67	65	M770 SS 300 WIN MAG	06/20/07	70	71378809	1.5000	3	100	PASS	
68	66	M770 SS 300 WIN MAG	06/21/07	66	71378810	1.3750	3	100	PASS	
69	67	M770 SS 300 WIN MAG	06/20/07	70	71378811	1.2500	3	100	PASS	
70	68	M770 SS 300 WIN MAG	06/21/07	12	71378813	1.3750	3	100	PASS	
71	69	M770 SS 300 WIN MAG	06/20/07	70	71378815	1.6250	3	100	PASS	
72	70	M770 SS 300 WIN MAG	06/20/07	70	71378816	1.5000	3	100	PASS	
73	71	M770 SS 300 WIN MAG	06/21/07	12	71378817	1.6250	3	100	PASS	
74	72	M770 SS 300 WIN MAG	06/20/07	70	71378851	1.6250	3	100	PASS	
75	73	M770 SS 300 WIN MAG	06/21/07	66	71378852	1.3750	3	100	PASS	
76	74	M770 SS 300 WIN MAG	06/21/07	12	71378853	1.2500	3	100	PASS	
77	75	M770 SS 300 WIN MAG	06/21/07	66	71378854	1.2500	3	100	PASS	
78	76	M770 SS 300 WIN MAG	06/20/07	70	71378857	1.0000	3	100	PASS	
79	77	M770 SS 300 WIN MAG	06/20/07	70	71378858	1.6250	3	100	PASS	
80	78	M770 SS 300 WIN MAG	06/21/07	66	71378863	1.8750	3	100	PASS	
81	79	M770 SS 300 WIN MAG	06/21/07	12	71378864	2.0000	3	100	PASS	
82	80	M770 SS 300 WIN MAG	06/21/07	66	71378865	1.7500	3	100	PASS	
83	81	M770 SS 300 WIN MAG	06/20/07	70	71378867	1.3750	3	100	PASS	
84	82	M770 SS 300 WIN MAG	06/21/07	12	71378869	2.2500	3	100	PASS	
85	83	M770 SS 300 WIN MAG	06/20/07	70	71378871	1.7500	3	100	PASS	
86	84	M770 SS 300 WIN MAG	06/21/07	66	71378940	1.7500	3	100	PASS	
87	85	M770 SS 300 WIN MAG	06/20/07	70	71378941	1.3750	3	100	PASS	
88	86	M770 SS 300 WIN MAG	06/20/07	70	71378944	1.6250	3	100	PASS	
89	87	M770 SS 300 WIN MAG	06/21/07	66	71378945	1.7500	3	100	PASS	
90	88	M770 SS 300 WIN MAG	06/20/07	70	71378946	1.5000	3	100	PASS	
91	89	M770 SS 300 WIN MAG	06/20/07	70	71378946	1.2500	3	100	PASS	
92		M770 SS 300 WIN MAG	06/20/07	70	71378946	1.5000	3	100	PASS	
93		M770 SS 300 WIN MAG	06/20/07	70	71378946	1.2500	3	100	PASS	
94	90	M770 SS 300 WIN MAG	06/21/07	66	71378947	1.5000	3	100	PASS	

	A	B	C	D	E	F	G	H	I	J
1		GUN PERFORMANCE								
2		CALIBER	LOG DATE	STAMP#	SERIAL#	GROUP SIZE	ROUNDS	DISTANCE	STATUS	
95	91	M770 SS 300 WIN MAG	06/20/07	70	71378948	1.2500	3	100	PASS	
96	92	M770 SS 300 WIN MAG	06/20/07	70	71378955	1.5000	3	100	PASS	
97	93	M770 SS 300 WIN MAG	06/20/07	70	71378961	1.5000	3	100	PASS	
98	94	M770 SS 300 WIN MAG	06/21/07	66	71378962	1.3750	3	100	PASS	
99	95	M770 SS 300 WIN MAG	06/21/07	12	71378963	1.5000	3	100	PASS	
100	96	M770 SS 300 WIN MAG	06/21/07	66	71378964	1.2500	3	100	PASS	
101	97	M770 SS 300 WIN MAG	06/20/07	70	71378966	1.3750	3	100	PASS	
102	98	M770 SS 300 WIN MAG	06/20/07	70	71378967	1.1250	3	100	PASS	
103	99	M770 SS 300 WIN MAG	06/20/07	70	71378969	1.5000	3	100	PASS	
104										
105					**AVERAGE:**	**1.3964**				
106					**Std Dev:**	**0.3106**				
107		**1/1/07 TO 6/17/07CARBON STEEL BARREL AVERAGE:**				**1.7085**		**BETTER/WORSE:**	**0.3121**	
108										
109										
110	1	M770 SS 243 WIN YOUTH	06/20/07	70	71378661	1.3750	3	100	PASS	
111	2	M770 SS 243 WIN YOUTH	06/20/07	70	71378878	1.0000	3	100	PASS	
112	3	M770 SS 243 WIN YOUTH	06/20/07	70	71378965	1.3750	3	100	PASS	
113	4	M770 SS 243 WIN YOUTH	06/20/07	70	71378875	1.1250	3	100	PASS	
114	5	M770 SS 243 WIN YOUTH	06/20/07	70	71378750	0.7500	3	100	PASS	
115	6	M770 SS 243 WIN YOUTH	06/20/07	66	71378780	0.8125	3	100	PASS	
116	7	M770 SS 243 WIN YOUTH	06/20/07	66	71378778	0.9375	3	100	PASS	
117	8	M770 SS 243 WIN YOUTH	06/20/07	66	71378796	0.8750	3	100	PASS	
118										
119					**AVERAGE:**	**1.0313**				
120					**Std Dev:**	**0.2409**				
121		**1/1/07 TO 6/17/07CARBON STEEL BARREL AVERAGE:**				**1.1934**		**BETTER/WORSE:**	**0.1622**	
122										
123	1	M770 SS 30-06 SPRG	06/20/07	70	71366912	1.2500	3	100	PASS	
124	2	M770 SS 30-06 SPRG	06/18/07	70	71378550	0.7500	3	100	PASS	
125	3	M770 SS 30-06 SPRG	06/18/07	70	71378551	1.6250	3	100	PASS	
126	4	M770 SS 30-06 SPRG	06/21/07	66	71378555	0.8125	3	100	PASS	
127	5	M770 SS 30-06 SPRG	06/18/07	70	71378559	1.5000	3	100	PASS	
128	6	M770 SS 30-06 SPRG	06/18/07	70	71378560	0.7500	3	100	PASS	
129	7	M770 SS 30-06 SPRG	06/18/07	70	71378561	1.7500	3	100	PASS	
130	8	M770 SS 30-06 SPRG	06/18/07	70	71378563	1.5000	3	100	PASS	
131	9	M770 SS 30-06 SPRG	06/18/07	70	71378566	0.9375	3	100	PASS	
132	10	M770 SS 30-06 SPRG	06/18/07	70	71378569	1.5000	3	100	PASS	
133	11	M770 SS 30-06 SPRG	06/18/07	70	71378576	1.1250	3	100	PASS	
134	12	M770 SS 30-06 SPRG	06/18/07	70	71378640	1.1250	3	100	PASS	
135	13	M770 SS 30-06 SPRG	06/18/07	70	71378643	1.3750	3	100	PASS	
136	14	M770 SS 30-06 SPRG	06/18/07	70	71378645	1.1250	3	100	PASS	
137	15	M770 SS 30-06 SPRG	06/20/07	66	71378647	1.3750	3	100	PASS	
138	16	M770 SS 30-06 SPRG	06/18/07	70	71378648	1.3750	3	100	PASS	
139	17	M770 SS 30-06 SPRG	06/18/07	70	71378652	1.2500	3	100	PASS	
140	18	M770 SS 30-06 SPRG	06/20/07	70	71378653	1.3750	3	100	PASS	

	A	B	C	D	E	F	G	H	I	J
1		GUN PERFORMANCE								
2		CALIBER	LOG DATE	STAMP#	SERIAL#	GROUP SIZE	ROUNDS	DISTANCE	STATUS	
141	19	M770 SS 30-06 SPRG	06/18/07	70	71378654	1.1250	3	100	PASS	
142	20	M770 SS 30-06 SPRG	06/18/07	70	71378655	1.2500	3	100	PASS	
143	21	M770 SS 30-06 SPRG	06/21/07	66	71378656	1.1250	3	100	PASS	
144	22	M770 SS 30-06 SPRG	06/20/07	66	71378657	1.5000	3	100	PASS	
145	23	M770 SS 30-06 SPRG	06/18/07	70	71378658	1.3750	3	100	PASS	
146	24	M770 SS 30-06 SPRG	06/18/07	70	71378660	1.3750	3	100	PASS	
147	25	M770 SS 30-06 SPRG	06/18/07	70	71378662	1.1250	3	100	PASS	
148	26	M770 SS 30-06 SPRG	06/18/07	70	71378668	1.2500	3	100	PASS	
149	27	M770 SS 30-06 SPRG	06/20/07	66	71378732	1.3750	3	100	PASS	
150	28	M770 SS 30-06 SPRG	06/18/07	70	71378737	1.6250	3	100	PASS	
151	29	M770 SS 30-06 SPRG	06/20/07	66	71378741	1.2500	3	100	PASS	
152	30	M770 SS 30-06 SPRG	06/18/07	70	71378742	0.5000	3	100	PASS	
153	31	M770 SS 30-06 SPRG	06/18/07	70	71378743	1.0000	3	100	PASS	
154	32	M770 SS 30-06 SPRG	06/18/07	70	71378744	0.8750	3	100	PASS	
155	33	M770 SS 30-06 SPRG	06/18/07	70	71378746	1.2500	3	100	PASS	
156	34	M770 SS 30-06 SPRG	06/20/07	66	71378747	1.6250	3	100	PASS	
157	35	M770 SS 30-06 SPRG	06/21/07	66	71378748	1.0000	3	100	PASS	
158	36	M770 SS 30-06 SPRG	06/18/07	70	71378753	1.0000	3	100	PASS	
159	37	M770 SS 30-06 SPRG	06/18/07	70	71378755	0.8750	3	100	PASS	
160	38	M770 SS 30-06 SPRG	06/18/07	70	71378760	0.7189	3	100	PASS	
161	39	M770 SS 30-06 SPRG	06/18/07	70	71378763	1.7500	3	100	PASS	
162	40	M770 SS 30-06 SPRG	06/21/07	66	71378764	1.0000	3	100	PASS	
163	41	M770 SS 30-06 SPRG	06/18/07	70	71378770	1.3750	3	100	PASS	
164	42	M770 SS 30-06 SPRG	06/18/07	70	71378771	1.2500	3	100	PASS	
165	43	M770 SS 30-06 SPRG	06/18/07	70	71378773	0.8750	3	100	PASS	
166	44	M770 SS 30-06 SPRG	06/18/07	70	71378784	1.6250	3	100	PASS	
167	45	M770 SS 30-06 SPRG	06/20/07	66	71378787	1.6250	3	100	PASS	
168	46	M770 SS 30-06 SPRG	06/18/07	70	71378789	1.0000	3	100	PASS	
169	47	M770 SS 30-06 SPRG	06/21/07	66	71378793	1.1250	3	100	PASS	
170	48	M770 SS 30-06 SPRG	06/18/07	70	71378800	1.6250	3	100	PASS	
171	49	M770 SS 30-06 SPRG	06/18/07	70	71378801	1.2500	3	100	PASS	
172	50	M770 SS 30-06 SPRG	06/18/07	70	71378802	1.3750	3	100	PASS	
173	51	M770 SS 30-06 SPRG	06/20/07	66	71378806	1.6250	3	100	PASS	
174	52	M770 SS 30-06 SPRG	06/20/07	70	71378812	1.5000	3	100	PASS	
175	53	M770 SS 30-06 SPRG	06/18/07	70	71378814	1.5000	3	100	PASS	
176	54	M770 SS 30-06 SPRG	06/18/07	70	71378818	1.2500	3	100	PASS	
177	55	M770 SS 30-06 SPRG	06/21/07	66	71378819	1.1250	3	100	PASS	
178	56	M770 SS 30-06 SPRG	06/18/07	70	71378850	1.3750	3	100	PASS	
179	57	M770 SS 30-06 SPRG	06/18/07	70	71378856	1.2500	3	100	PASS	
180	58	M770 SS 30-06 SPRG	06/20/07	66	71378860	0.8125	3	100	PASS	
181	59	M770 SS 30-06 SPRG	06/18/07	70	71378862	1.5000	3	100	PASS	
182	60	M770 SS 30-06 SPRG	06/18/07	70	71378866	1.7500	3	100	PASS	
183	61	M770 SS 30-06 SPRG	06/18/07	70	71378868	1.1250	3	100	PASS	
184	62	M770 SS 30-06 SPRG	06/20/07	66	71378872	1.2500	3	100	PASS	
185	63	M770 SS 30-06 SPRG	06/18/07	70	71378873	1.7500	3	100	PASS	
186	64	M770 SS 30-06 SPRG	06/18/07	70	71378874	1.2500	3	100	PASS	

	A	B	C	D	E	F	G	H	I	J
1		GUN PERFORMANCE								
2		CALIBER	LOG DATE	STAMP#	SERIAL#	GROUP SIZE	ROUNDS	DISTANCE	STATUS	
187	65	M770 SS 30-06 SPRG	06/18/07	70	71378876	1.3750	3	100	PASS	
188	66	M770 SS 30-06 SPRG	06/20/07	66	71378877	1.0000	3	100	PASS	
189	67	M770 SS 30-06 SPRG	06/20/07	70	71378942	1.5000	3	100	PASS	
190	68	M770 SS 30-06 SPRG	06/21/07	66	71378943	1.1250	3	100	PASS	
191	69	M770 SS 30-06 SPRG	06/18/07	70	71378950	1.0000	3	100	PASS	
192	70	M770 SS 30-06 SPRG	06/18/07	70	71378951	1.5000	3	100	PASS	
193	71	M770 SS 30-06 SPRG	06/18/07	70	71378952	0.5000	3	100	PASS	
194	72	M770 SS 30-06 SPRG	06/18/07	70	71378953	1.6250	3	100	PASS	
195	73	M770 SS 30-06 SPRG	06/18/07	70	71378954	1.2500	3	100	PASS	
196	74	M770 SS 30-06 SPRG	06/18/07	70	71378956	1.3750	3	100	PASS	
197	75	M770 SS 30-06 SPRG	06/20/07	66	71378957	1.3750	3	100	PASS	
198	76	M770 SS 30-06 SPRG	06/18/07	70	71378958	1.3750	3	100	PASS	
199	77	M770 SS 30-06 SPRG	06/18/07	70	71378959	1.0000	3	100	PASS	
200	78	M770 SS 30-06 SPRG	06/18/07	70	71378960	0.9375	3	100	PASS	
201	79	M770 SS 30-06 SPRG	06/18/07	70	71378968	0.5312	3	100	PASS	
202	80	M770 SS 30-06 SPRG	06/20/07	66	714378768	1.3750	3	100	PASS	
203										
204					**AVERAGE:**	**1.2031**				
205					**Std Dev:**	**0.2976**				
206		**1/1/07 TO 6/17/07CARBON STEEL BARREL AVERAGE:**				**1.3402**		**BETTER/WORSE:**	**0.1371**	
207										
208										
209										
210		CALIBER	LOG DATE	STAMP#	SERIAL#	GROUP SIZE	ROUNDS	DISTANCE	STATUS	
211		M770 SS 270 WIN	08/14/07	78	71386134	1.2500	3	100	PASS	
212		M770 SS 270 WIN	08/14/07	78	71390499	1.5000	3	100	PASS	
213		M770 SS 270 WIN	08/14/07	12	71386318	1.0000	3	100	PASS	
214		M770 SS 270 WIN	08/14/07	12	71386624	1.2500	3	100	PASS	
215		M770 SS 270 WIN	08/14/07	78	71382323	1.6250	4	100	PASS	
216		M770 SS 270 WIN	08/14/07	78	71382826	1.5000	3	100	PASS	
217		M770 SS 270 WIN	08/14/07	66	71390505	1.1250	3	100	PASS	
218		M770 SS 270 WIN	08/14/07	66	71390510	0.8125	3	100	PASS	
219		M770 SS 270 WIN	08/14/07	66	71384640	1.1250	3	100	PASS	
220		M770 SS 270 WIN	08/14/07	66	71390489	1.1250	3	100	PASS	
221		M770 SS 270 WIN	08/14/07	66	71385392	1.3750	3	100	PASS	
222		M770 SS 270 WIN	08/15/07	70	71384962	1.3750	3	100	PASS	
223		M770 SS 270 WIN	08/15/07	70	71385413	1.5000	3	100	PASS	
224		M770 SS 270 WIN	08/15/07	70	71386308	1.6250	3	100	PASS	
225		M770 SS 270 WIN	08/15/07	70	71378766	1.3750	3	100	PASS	
226		M770 SS 270 WIN	08/15/07	78	71386245	1.1250	3	100	PASS	
227		M770 SS 270 WIN	08/15/07	78	71390468	0.7500	3	100	PASS	
228		M770 SS 270 WIN	08/15/07	78	71386319	1.0000	3	100	PASS	
229		M770 SS 270 WIN	08/15/07	78	71384728	1.6250	4	100	PASS	
230		M770 SS 270 WIN	08/15/07	12	71386441	1.2500	3	100	PASS	
231		M770 SS 270 WIN	08/15/07	12	71386352	1.5000	3	100	PASS	
232		M770 SS 270 WIN	08/15/07	78	71383830	1.7500	4	100	PASS	

	A	B	C	D	E	F	G	H	I	J
1		GUN PERFORMANCE								
2		CALIBER	LOG DATE	STAMP#	SERIAL#	GROUP SIZE	ROUNDS	DISTANCE	STATUS	
233		M770 SS 270 WIN	08/15/07	78	71381239	1.5000	3	100	PASS	
234					**AVERAGE:**	**1.3071**				
235					**Std Dev:**	**0.2684**				
236		**RAMAC #85652**	**CARBON STEEL1/1/07 to 8/1/07 AVERAGE:**			**1.3163**		**BETTER/WORSE:**	**0.0092**	
237										
238										
239		M770 SS 7MM REM MAG	08/15/07	66	71386635	1.2500	3	100	PASS	
240		M770 SS 7MM REM MAG	08/15/07	66	71385908	1.6250	3	100	PASS	
241		M770 SS 7MM REM MAG	08/15/07	66	71385400	1.0000	3	100	PASS	
242					**AVERAGE:**	**1.2917**				
243					**Std Dev:**	**0.3146**				
244		**RAMAC #85654**	**CARBON STEEL1/1/07 to 8/1/07 AVERAGE:**			**1.5155**		**BETTER/WORSE:**	**0.2238**	
245										
246										
247										
248					Overall	1.3108				
249					Overall	0.3089				

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	A	B	C	D	E	F	G	H
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2								
3		Overall Accuracy Summary						
4		Series	A	B	C	D	E	All Calibers
5		Caliber	300 Win Mag	30-06 Sprg	243 Win Youth	7mm Rem Mag	270 Win	Combined
6		Elizabethtown Accuracy Data						
7		3 Shot Group Average	**1.62**	**1.61**	**1.31**	**1.48**	**1.20**	**1.47**
8		3 Shot Group Standard Deviation	0.44	0.63	0.55	0.51	0.46	0.54
9		5 Shot Group Average	**2.03**	**1.89**	**1.90**	**1.83**	**1.64**	**1.89**
10		5 Shot Group Standard Deviation	0.54	0.56	0.47	0.40	0.44	0.50
11		# of guns fired	6	6	6	3	3	24
12		# of groups per gun	3	3	3	3	3	3
13		Mayfield Accuracy Data						
14		3 Shot Group Average	**1.40**	**1.20**	**1.03**	**1.29**	**1.31**	**1.31**
15		3 Shot Group Standard Deviation	0.31	0.30	0.24	0.31	0.27	0.31
16		# of guns fired	101	80	8	3	23	215
17		# of groups per gun	1	1	1	1	1	1

Clean and Inspect Summary

	A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6	D1	D2	D3	D4	D5	E1	E2	E3	E4	E5
Before Test	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
100 RL	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
500 RL	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK				OK	OK			
1000 RL	OK	OK	OK	OK			OK	OK	OK	OK			OK	OK	OK	OK			OK					OK				
1500 RL	OK	OK					OK	OK					OK	OK														
2000 RL	OK	OK					OK	OK					OK	OK														

Malfunction Summary

	A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6	D1	D2	D3	D4	D5	E1	E2	E3	E4	E5
100 RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 [c]	0 [c]	0 [c]	0 [c]	0 [c]	0 [c]	0 [c]	0 [c]	0 [c]	0 [c]
500 RL	0	1 [a]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 [c]	0 [c]				0 [c]	0 [c]			
1000 RL	0	0	2 [b]	0			0	0	0	0			0	0	0	0			0 [c]					0 [c]				
1500 RL	0	0					0	0					0	0														
2000 RL	0	0					0	0					0	0														

[a] Fail to Eject on round 315

[b] A3 Firing pin bound on rounds 638,697. Trigger got heavy few rounds prior to malfunction, then no fire.

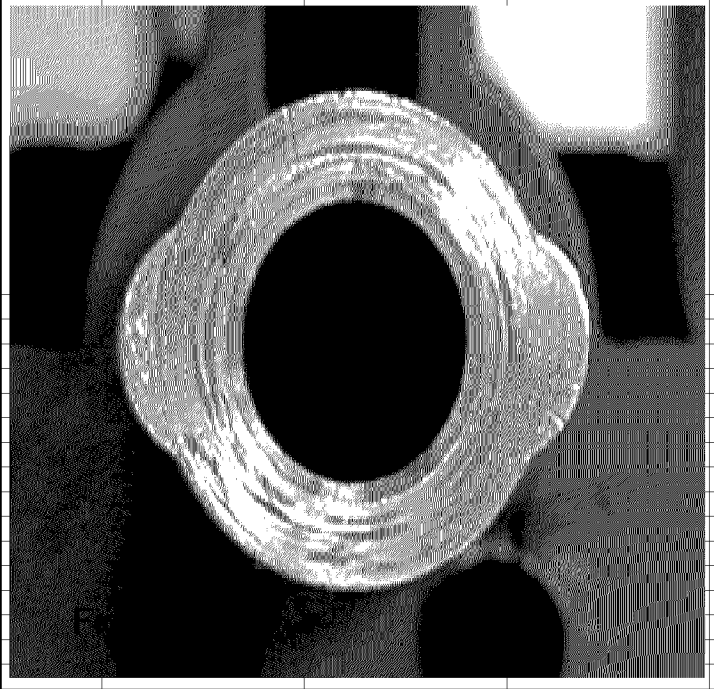
[c] Bolt locking lug intermittenly hit front of magazine follower.

bolt locking lug was hitting front of follower
made chamfer on followers - D1,D2, E1,E2
corrected the problem

A-3 Firing Pin would bind up occasionally during livefire testing.

Upon disassembly & inspection it was determined that a piece of debri (most likely a metal chip) must have been lodged between the firing pin, bolt plug and main spring.

This gouged into the firing pin as shown in Figures B & C and restricted the proper movment of the pin during livefire testing.



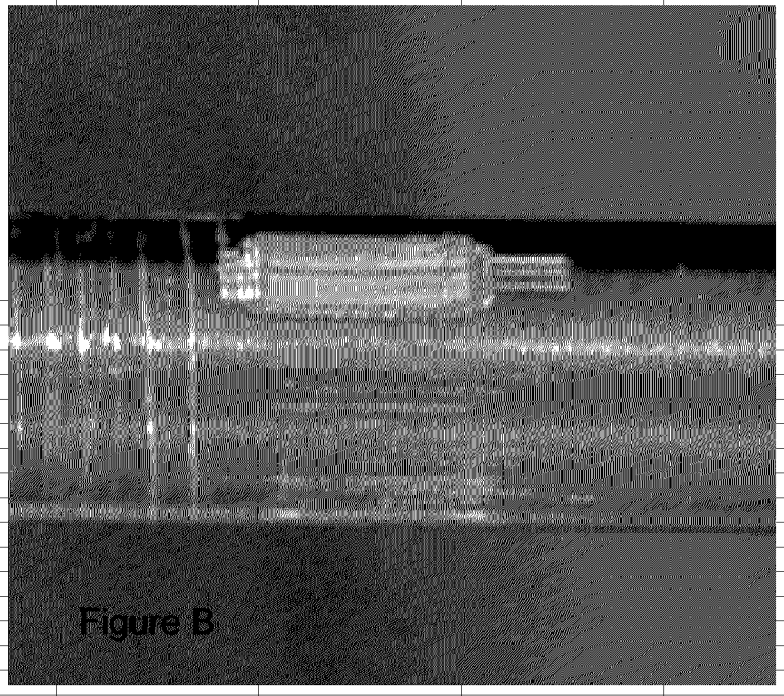


Figure B

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1																			
2																			
3		Test Gun ID																	
4	Round Level	A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6
5	1																		
6	2																		
7	3																		
8	4																		
9	5																		
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20	16																		
21	17																		
22	18																		
23	19																		
24	20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	21																		
26	22																		
27	23																		
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39	35																		
40	36																		
41	37																		
42	38																		
43	39																		
44	40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
45	41																		
46	42																		
47	43																		
48	44																		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
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64	60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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100	96																		
101	97																		
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103	99																		
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143	139																		
144	140	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
145	141																		
146	142																		
147	143																		
148	144																		

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247	243																		
248	244																		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
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257	253																		
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259	255																		
260	256																		
261	257																		
262	258																		
263	259																		
264	260	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
265	261																		
266	262																		
267	263																		
268	264																		
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284	280	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
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304	300	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
305	301																		
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317	313																		
318	314																		
319	315		FTE																
320	316																		
321	317																		
322	318																		
323	319																		
324	320	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
325	321																		
326	322																		
327	323																		
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341	337																		
342	338																		
343	339																		
344	340	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
345	341																		
346	342																		
347	343																		
348	344																		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
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364	360	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
365	361																		
366	362																		
367	363																		
368	364																		
369	365																		
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377	373																		
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380	376																		
381	377																		
382	378																		
383	379																		
384	380	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
385	381																		
386	382																		
387	383																		
388	384																		
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398	394																		

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401	397																		
402	398																		
403	399																		
404	400	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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406	402																		
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420	416																		
421	417																		
422	418																		
423	419																		
424	420	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
425	421																		
426	422																		
427	423																		
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438	434																		
439	435																		
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441	437																		
442	438																		
443	439																		
444	440	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
445	441																		
446	442																		
447	443																		
448	444																		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
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450	446																		
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452	448																		
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457	453																		
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459	455																		
460	456																		
461	457																		
462	458																		
463	459																		
464	460	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
465	461																		
466	462																		
467	463																		
468	464																		
469	465																		
470	466																		
471	467																		
472	468																		
473	469																		
474	470																		
475	471																		
476	472																		
477	473																		
478	474																		
479	475																		
480	476																		
481	477																		
482	478																		
483	479																		
484	480	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
485	481																		
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488	484																		
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497	493																		
498	494																		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
499	495																		
500	496																		
501	497																		
502	498																		
503	499																		
504	500	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

	A	B	C	D	E	F	G	H	I	J	K	L	M
1													
2													
3		Test Gun ID											
4	Round Level	A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
5	501												
6	502												
7	503												
8	504												
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16	512												
17	513												
18	514												
19	515												
20	516												
21	517												
22	518												
23	519												
24	520	X	X	X	X	X	X	X	X	X	X	X	X
25	521												
26	522												
27	523												
28	524												
29	525												
30	526												
31	527												
32	528												
33	529												
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35	531												
36	532												
37	533												
38	534												
39	535												
40	536												
41	537												
42	538												
43	539												
44	540	X	X	X	X	X	X	X	X	X	X	X	X
45	541												
46	542												
47	543												
48	544												

	A	B	C	D	E	F	G	H	I	J	K	L	M
49	545												
50	546												
51	547												
52	548												
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56	552												
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58	554												
59	555												
60	556												
61	557												
62	558												
63	559												
64	560	X	X	X	X	X	X	X	X	X	X	X	X
65	561												
66	562												
67	563												
68	564												
69	565												
70	566												
71	567												
72	568												
73	569												
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75	571												
76	572												
77	573												
78	574												
79	575												
80	576												
81	577												
82	578												
83	579												
84	580	X	X	X	X	X	X	X	X	X	X	X	X
85	581												
86	582												
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98	594												

	A	B	C	D	E	F	G	H	I	J	K	L	M
99	595												
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101	597												
102	598												
103	599												
104	600	X	X	X	X	X	X	X	X	X	X	X	X
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106	602												
107	603												
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116	612												
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119	615												
120	616												
121	617												
122	618												
123	619												
124	620	X	X	X	X	X	X	X	X	X	X	X	X
125	621												
126	622												
127	623												
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137	633												
138	634												
139	635												
140	636												
141	637												
142	638			Bolt bound									
143	639												
144	640	X	X	X	X	X	X	X	X	X	X	X	X
145	641												
146	642												
147	643												
148	644												

	A	B	C	D	E	F	G	H	I	J	K	L	M
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157	653												
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159	655												
160	656												
161	657												
162	658												
163	659												
164	660	X	X	X	X	X	X	X	X	X	X	X	X
165	661												
166	662												
167	663												
168	664												
169	665												
170	666												
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176	672												
177	673												
178	674												
179	675												
180	676												
181	677												
182	678												
183	679												
184	680	X	X	X	X	X	X	X	X	X	X	X	X
185	681												
186	682												
187	683												
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195	691												
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197	693												
198	694												

	A	B	C	D	E	F	G	H	I	J	K	L	M
199	695												
200	696												
201	697			BOUND									
202	698												
203	699												
204	700	X	X	X	X	X	X	X	X	X	X	X	X
205	701												
206	702												
207	703												
208	704												
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210	706												
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213	709												
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216	712												
217	713												
218	714												
219	715												
220	716												
221	717												
222	718												
223	719												
224	720	X	X	X	X	X	X	X	X	X	X	X	X
225	721												
226	722												
227	723												
228	724												
229	725												
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233	729												
234	730												
235	731												
236	732												
237	733												
238	734												
239	735												
240	736												
241	737												
242	738												
243	739												
244	740	X	X	X	X	X	X	X	X	X	X	X	X
245	741												
246	742												
247	743												
248	744												

	A	B	C	D	E	F	G	H	I	J	K	L	M
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258	754												
259	755												
260	756												
261	757												
262	758												
263	759												
264	760	X	X	X	X	X	X	X	X	X	X	X	X
265	761												
266	762												
267	763												
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269	765												
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276	772												
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278	774												
279	775												
280	776												
281	777												
282	778												
283	779												
284	780	X	X	X	X	X	X	X	X	X	X	X	X
285	781												
286	782												
287	783												
288	784												
289	785												
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291	787												
292	788												
293	789												
294	790												
295	791												
296	792												
297	793												
298	794												

	A	B	C	D	E	F	G	H	I	J	K	L	M
299	795												
300	796												
301	797												
302	798												
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304	800	X	X	X	X	X	X	X	X	X	X	X	X
305	801												
306	802												
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310	806												
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318	814												
319	815												
320	816												
321	817												
322	818												
323	819												
324	820	X	X	X	X	X	X	X	X	X	X	X	X
325	821												
326	822												
327	823												
328	824												
329	825												
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337	833												
338	834												
339	835												
340	836												
341	837												
342	838												
343	839												
344	840	X	X	X	X	X	X	X	X	X	X	X	X
345	841												
346	842												
347	843												
348	844												

	A	B	C	D	E	F	G	H	I	J	K	L	M
349	845												
350	846												
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355	851												
356	852												
357	853												
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359	855												
360	856												
361	857												
362	858												
363	859												
364	860	X	X	X	X	X	X	X	X	X	X	X	X
365	861												
366	862												
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368	864												
369	865												
370	866												
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376	872												
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378	874												
379	875												
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381	877												
382	878												
383	879												
384	880	X	X	X	X	X	X	X	X	X	X	X	X
385	881												
386	882												
387	883												
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398	894												

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399	895												
400	896												
401	897												
402	898												
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404	900	X	X	X	X	X	X	X	X	X	X	X	X
405	901												
406	902												
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417	913												
418	914												
419	915												
420	916												
421	917												
422	918												
423	919												
424	920	X	X	X	X	X	X	X	X	X	X	X	X
425	921												
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427	923												
428	924												
429	925												
430	926												
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437	933												
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440	936												
441	937												
442	938												
443	939												
444	940	X	X	X	X	X	X	X	X	X	X	X	X
445	941												
446	942												
447	943												
448	944												

	A	B	C	D	E	F	G	H	I	J	K	L	M
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456	952												
457	953												
458	954												
459	955												
460	956												
461	957												
462	958												
463	959												
464	960	X	X	X	X	X	X	X	X	X	X	X	X
465	961												
466	962												
467	963												
468	964												
469	965												
470	966												
471	967												
472	968												
473	969												
474	970												
475	971												
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477	973												
478	974												
479	975												
480	976												
481	977												
482	978												
483	979												
484	980	X	X	X	X	X	X	X	X	X	X	X	X
485	981												
486	982												
487	983												
488	984												
489	985												
490	986												
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492	988												
493	989												
494	990												
495	991												
496	992												
497	993												
498	994												

	A	B	C	D	E	F	G	H	I	J	K	L	M
499	995												
500	996												
501	997												
502	998												
503	999												
504	1000	X	X	X	X	X	X	X	X	X	X	X	X

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1															
2															
3		Test Gun ID							Test Gun ID						
4	Round Level	A1	A2	B1	B2	C1	C2		Round Level	A1	A2	B1	B2	C1	C2
5	1001								1501						
6	1002								1502						
7	1003								1503						
8	1004								1504						
9	1005								1505						
10	1006								1506						
11	1007								1507						
12	1008								1508						
13	1009								1509						
14	1010								1510						
15	1011								1511						
16	1012								1512						
17	1013								1513						
18	1014								1514						
19	1015								1515						
20	1016								1516						
21	1017								1517						
22	1018								1518						
23	1019								1519						
24	1020	X	X	X	X	X	X		1520	X	X	X	X	X	X
25	1021								1521						
26	1022								1522						
27	1023								1523						
28	1024								1524						
29	1025								1525						
30	1026								1526						
31	1027								1527						
32	1028								1528						
33	1029								1529						
34	1030								1530						
35	1031								1531						
36	1032								1532						
37	1033								1533						
38	1034								1534						
39	1035								1535						
40	1036								1536						
41	1037								1537						
42	1038								1538						
43	1039								1539						
44	1040	X	X	X	X	X	X		1540	X	X	X	X	X	X
45	1041								1541						
46	1042								1542						
47	1043								1543						
48	1044								1544						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
49	1045								1545						
50	1046								1546						
51	1047								1547						
52	1048								1548						
53	1049								1549						
54	1050								1550						
55	1051								1551						
56	1052								1552						
57	1053								1553						
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62	1058								1558						
63	1059								1559						
64	1060	X	X	X	X	X	X		1560	X	X	X	X	X	X
65	1061								1561						
66	1062								1562						
67	1063								1563						
68	1064								1564						
69	1065								1565						
70	1066								1566						
71	1067								1567						
72	1068								1568						
73	1069								1569						
74	1070								1570						
75	1071								1571						
76	1072								1572						
77	1073								1573						
78	1074								1574						
79	1075								1575						
80	1076								1576						
81	1077								1577						
82	1078								1578						
83	1079								1579						
84	1080	X	X	X	X	X	X		1580	X	X	X	X	X	X
85	1081								1581						
86	1082								1582						
87	1083								1583						
88	1084								1584						
89	1085								1585						
90	1086								1586						
91	1087								1587						
92	1088								1588						
93	1089								1589						
94	1090								1590						
95	1091								1591						
96	1092								1592						
97	1093								1593						
98	1094								1594						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
99	1095								1595						
100	1096								1596						
101	1097								1597						
102	1098								1598						
103	1099								1599						
104	1100	X	X	X	X	X	X		1600	X	X	X	X	X	X
105	1101								1601						
106	1102								1602						
107	1103								1603						
108	1104								1604						
109	1105								1605						
110	1106								1606						
111	1107								1607						
112	1108								1608						
113	1109								1609						
114	1110								1610						
115	1111								1611						
116	1112								1612						
117	1113								1613						
118	1114								1614						
119	1115								1615						
120	1116								1616						
121	1117								1617						
122	1118								1618						
123	1119								1619						
124	1120	X	X	X	X	X	X		1620	X	X	X	X	X	X
125	1121								1621						
126	1122								1622						
127	1123								1623						
128	1124								1624						
129	1125								1625						
130	1126								1626						
131	1127								1627						
132	1128								1628						
133	1129								1629						
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135	1131								1631						
136	1132								1632						
137	1133								1633						
138	1134								1634						
139	1135								1635						
140	1136								1636						
141	1137								1637						
142	1138								1638						
143	1139								1639						
144	1140	X	X	X	X	X	X		1640	X	X	X	X	X	X
145	1141								1641						
146	1142								1642						
147	1143								1643						
148	1144								1644						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
149	1145								1645						
150	1146								1646						
151	1147								1647						
152	1148								1648						
153	1149								1649						
154	1150								1650						
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156	1152								1652						
157	1153								1653						
158	1154								1654						
159	1155								1655						
160	1156								1656						
161	1157								1657						
162	1158								1658						
163	1159								1659						
164	1160	X	X	X	X	X	X		1660	X	X	X	X	X	X
165	1161								1661						
166	1162								1662						
167	1163								1663						
168	1164								1664						
169	1165								1665						
170	1166								1666						
171	1167								1667						
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175	1171								1671						
176	1172								1672						
177	1173								1673						
178	1174								1674						
179	1175								1675						
180	1176								1676						
181	1177								1677						
182	1178								1678						
183	1179								1679						
184	1180	X	X	X	X	X	X		1680	X	X	X	X	X	X
185	1181								1681						
186	1182								1682						
187	1183								1683						
188	1184								1684						
189	1185								1685						
190	1186								1686						
191	1187								1687						
192	1188								1688						
193	1189								1689						
194	1190								1690						
195	1191								1691						
196	1192								1692						
197	1193								1693						
198	1194								1694						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
199	1195								1695						
200	1196								1696						
201	1197								1697						
202	1198								1698						
203	1199								1699						
204	1200	X	X	X	X	X	X		1700	X	X	X	X	X	X
205	1201								1701						
206	1202								1702						
207	1203								1703						
208	1204								1704						
209	1205								1705						
210	1206								1706						
211	1207								1707						
212	1208								1708						
213	1209								1709						
214	1210								1710						
215	1211								1711						
216	1212								1712						
217	1213								1713						
218	1214								1714						
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220	1216								1716						
221	1217								1717						
222	1218								1718						
223	1219								1719						
224	1220	X	X	X	X	X	X		1720	X	X	X	X	X	X
225	1221								1721						
226	1222								1722						
227	1223								1723						
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229	1225								1725						
230	1226								1726						
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233	1229								1729						
234	1230								1730						
235	1231								1731						
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237	1233								1733						
238	1234								1734						
239	1235								1735						
240	1236								1736						
241	1237								1737						
242	1238								1738						
243	1239								1739						
244	1240	X	X	X	X	X	X		1740	X	X	X	X	X	X
245	1241								1741						
246	1242								1742						
247	1243								1743						
248	1244								1744						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
249	1245								1745						
250	1246								1746						
251	1247								1747						
252	1248								1748						
253	1249								1749						
254	1250								1750						
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256	1252								1752						
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260	1256								1756						
261	1257								1757						
262	1258								1758						
263	1259								1759						
264	1260	X	X	X	X	X	X		1760	X	X	X	X	X	X
265	1261								1761						
266	1262								1762						
267	1263								1763						
268	1264								1764						
269	1265								1765						
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271	1267								1767						
272	1268								1768						
273	1269								1769						
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276	1272								1772						
277	1273								1773						
278	1274								1774						
279	1275								1775						
280	1276								1776						
281	1277								1777						
282	1278								1778						
283	1279								1779						
284	1280	X	X	X	X	X	X		1780	X	X	X	X	X	X
285	1281								1781						
286	1282								1782						
287	1283								1783						
288	1284								1784						
289	1285								1785						
290	1286								1786						
291	1287								1787						
292	1288								1788						
293	1289								1789						
294	1290								1790						
295	1291								1791						
296	1292								1792						
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
299	1295								1795						
300	1296								1796						
301	1297								1797						
302	1298								1798						
303	1299								1799						
304	1300	X	X	X	X	X	X		1800	X	X	X	X	X	X
305	1301								1801						
306	1302								1802						
307	1303								1803						
308	1304								1804						
309	1305								1805						
310	1306								1806						
311	1307								1807						
312	1308								1808						
313	1309								1809						
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315	1311								1811						
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320	1316								1816						
321	1317								1817						
322	1318								1818						
323	1319								1819						
324	1320	X	X	X	X	X	X		1820	X	X	X	X	X	X
325	1321								1821						
326	1322								1822						
327	1323								1823						
328	1324								1824						
329	1325								1825						
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334	1330								1830						
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340	1336								1836						
341	1337								1837						
342	1338								1838						
343	1339								1839						
344	1340	X	X	X	X	X	X		1840	X	X	X	X	X	X
345	1341								1841						
346	1342								1842						
347	1343								1843						
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
349	1345								1845						
350	1346								1846						
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360	1356								1856						
361	1357								1857						
362	1358								1858						
363	1359								1859						
364	1360	X	X	X	X	X	X		1860	X	X	X	X	X	X
365	1361								1861						
366	1362								1862						
367	1363								1863						
368	1364								1864						
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379	1375								1875						
380	1376								1876						
381	1377								1877						
382	1378								1878						
383	1379								1879						
384	1380	X	X	X	X	X	X		1880	X	X	X	X	X	X
385	1381								1881						
386	1382								1882						
387	1383								1883						
388	1384								1884						
389	1385								1885						
390	1386								1886						
391	1387								1887						
392	1388								1888						
393	1389								1889						
394	1390								1890						
395	1391								1891						
396	1392								1892						
397	1393								1893						
398	1394								1894						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
399	1395								1895						
400	1396								1896						
401	1397								1897						
402	1398								1898						
403	1399								1899						
404	1400	X	X	X	X	X	X		1900	X	X	X	X	X	X
405	1401								1901						
406	1402								1902						
407	1403								1903						
408	1404								1904						
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420	1416								1916						
421	1417								1917						
422	1418								1918						
423	1419								1919						
424	1420	X	X	X	X	X	X		1920	X	X	X	X	X	X
425	1421								1921						
426	1422								1922						
427	1423								1923						
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431	1427								1927						
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434	1430								1930						
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436	1432								1932						
437	1433								1933						
438	1434								1934						
439	1435								1935						
440	1436								1936						
441	1437								1937						
442	1438								1938						
443	1439								1939						
444	1440	X	X	X	X	X	X		1940	X	X	X	X	X	X
445	1441								1941						
446	1442								1942						
447	1443								1943						
448	1444								1944						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
449	1445								1945						
450	1446								1946						
451	1447								1947						
452	1448								1948						
453	1449								1949						
454	1450								1950						
455	1451								1951						
456	1452								1952						
457	1453								1953						
458	1454								1954						
459	1455								1955						
460	1456								1956						
461	1457								1957						
462	1458								1958						
463	1459								1959						
464	1460	X	X	X	X	X	X		1960	X	X	X	X	X	X
465	1461								1961						
466	1462								1962						
467	1463								1963						
468	1464								1964						
469	1465								1965						
470	1466								1966						
471	1467								1967						
472	1468								1968						
473	1469								1969						
474	1470								1970						
475	1471								1971						
476	1472								1972						
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479	1475								1975						
480	1476								1976						
481	1477								1977						
482	1478								1978						
483	1479								1979						
484	1480	X	X	X	X	X	X		1980	X	X	X	X	X	X
485	1481								1981						
486	1482								1982						
487	1483								1983						
488	1484								1984						
489	1485								1985						
490	1486								1986						
491	1487								1987						
492	1488								1988						
493	1489								1989						
494	1490								1990						
495	1491								1991						
496	1492								1992						
497	1493								1993						
498	1494								1994						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
499	1495								1995						
500	1496								1996						
501	1497								1997						
502	1498								1998						
503	1499								1999						
504	1500	X	X	X	X	X	X		2000	X	X	X	X	X	X

	A	B	C	D	E	F	G	H	I	J	K
1		PROJECT: 241230				M/770 STAINLESS STEEL					
2		TLW: 2359									
3		7MM REM MAG				Test Gun ID		.270 Win			
4	Round Level	D1	D2	D3	D4	D5	E1	E2	E3	E4	E5
5	1										
6	2										
7	3										
8	4										
9	5	x	x	x	x	x	x	x	x	x	x
10	6										
11	7										
12	8										
13	9										
14	10	x	x	x	x	x	x	x	x	x	x
15	11										
16	12										
17	13										
18	14										
19	15	x	x	x	x	x	x	x	x	x	x
20	16										
21	17										
22	18										
23	19										
24	20	x	x	x	x	x	x	x	x	x	x
25	21										
26	22										
27	23										
28	24										
29	25	x	x	x	x	x	x	x	x	x	x
30	26										
31	27										
32	28										
33	29										
34	30	x	x	x	x	x	x	x	x	x	x
35	31										
36	32										
37	33										
38	34										
39	35	x	x	x	x	x	x	x	x	x	x
40	36										
41	37										
42	38										
43	39										
44	40	x	x	x	x	x	x	x	x	x	x
45	41										
46	42										
47	43										
48	44										

	A	B	C	D	E	F	G	H	I	J	K
49	45	x	x	x	x	x	x	x	x	x	x
50	46										
51	47										
52	48										
53	49										
54	50	x	x	x	x	x	x	x	x	x	x
55	51										
56	52										
57	53										
58	54										
59	55	x	x	x	x	x	x	x	x	x	x
60	56										
61	57										
62	58										
63	59										
64	60	x	x	x	x	x	x	x	x	x	x
65	61										
66	62										
67	63										
68	64										
69	65	x	x	x	x	x	x	x	x	x	x
70	66										
71	67										
72	68										
73	69										
74	70	x	x	x	x	x	x	x	x	x	x
75	71										
76	72										
77	73										
78	74										
79	75	x	x	x	x	x	x	x	x	x	x
80	76										
81	77										
82	78										
83	79										
84	80	x	x	x	x	x	x	x	x	x	x
85	81										
86	82										
87	83										

	A	B	C	D	E	F	G	H	I	J	K
88	84										
89	85	x	x	x	x	x	x	x	x	x	x
90	86										
91	87										
92	88										
93	89										
94	90	x	x	x	x	x	x	x	x	x	x
95	91										
96	92										
97	93										
98	94										
99	95	x	x	x	x	x	x	x	x	x	x
100	96										
101	97										
102	98										
103	99										
104	100	x	x	x	x	x	x	x	x	x	x

	A	B	C	D	E
1					
2		7MM R M		.270 WIN	
3		Test Gun ID			
4	Round Level	D1	D2	E1	E2
5	101				
6	102				
7	103				
8	104				
9	105	x	x	x	x
10	106				
11	107				
12	108				
13	109				
14	110	x	x	x	x
15	111				
16	112				
17	113				
18	114				
19	115	x	x	x	x
20	116				
21	117				
22	118				
23	119				
24	120	x	x	x	x
25	121				
26	122				
27	123				
28	124				
29	125	x	x	x	x
30	126				
31	127				
32	128				
33	129				
34	130	x	x	x	x
35	131				
36	132				
37	133				
38	134				
39	135	x	x	x	x
40	136				
41	137				
42	138				
43	139				
44	140	x	x	x	x
45	141				
46	142				
47	143				
48	144				

	A	B	C	D	E
49	145	x	x	x	x
50	146				
51	147				
52	148				
53	149				
54	150	x	x	x	x
55	151				
56	152				
57	153				
58	154				
59	155	x	x	x	x
60	156				
61	157				
62	158				
63	159				
64	160	x	x	x	x
65	161				
66	162				
67	163				
68	164				
69	165	x	x	x	x
70	166				
71	167				
72	168				
73	169				
74	170	x	x	x	x
75	171				
76	172				
77	173				
78	174				
79	175	x	x	x	x
80	176				
81	177				
82	178				
83	179				
84	180	x	x	x	x
85	181				
86	182				
87	183				
88	184				
89	185	x	x	x	x
90	186				
91	187				
92	188				
93	189				
94	190	x	x	x	x
95	191				
96	192				
97	193				
98	194				

	A	B	C	D	E
99	195	x	x	x	x
100	196				
101	197				
102	198				
103	199				
104	200	x	x	x	x
105	201				
106	202				
107	203				
108	204				
109	205	x	x	x	x
110	206				
111	207				
112	208				
113	209				
114	210	x	x	x	x
115	211				
116	212				
117	213				
118	214				
119	215	x	x	x	x
120	216				
121	217				
122	218				
123	219				
124	220	x	x	x	x
125	221				
126	222				
127	223				
128	224				
129	225	x	x	x	x
130	226				
131	227				
132	228				
133	229				
134	230	x	x	x	x
135	231				
136	232				
137	233				
138	234				
139	235	x	x	x	x
140	236				
141	237				
142	238				
143	239				
144	240	x	x	x	x
145	241				
146	242				
147	243				
148	244				

	A	B	C	D	E
149	245	x	x	x	x
150	246				
151	247				
152	248				
153	249				
154	250	x	x	x	x
155	251				
156	252				
157	253				
158	254				
159	255	x	x	x	x
160	256				
161	257				
162	258				
163	259				
164	260	x	x	x	x
165	261				
166	262				
167	263				
168	264				
169	265	x	x	x	x
170	266				
171	267				
172	268				
173	269				
174	270	x	x	x	x
175	271				
176	272				
177	273				
178	274				
179	275	x	x	x	x
180	276				
181	277				
182	278				
183	279				
184	280	x	x	x	x
185	281				
186	282				
187	283				
188	284				
189	285	x	x	x	x
190	286				
191	287				
192	288				
193	289				
194	290	x	x	x	x
195	291				
196	292				
197	293				
198	294				

	A	B	C	D	E
199	295	x	x	x	x
200	296				
201	297				
202	298				
203	299				
204	300	x	x	x	x
205	301				
206	302				
207	303				
208	304				
209	305	x	x	x	x
210	306				
211	307				
212	308				
213	309				
214	310	x	x	x	x
215	311				
216	312				
217	313				
218	314				
219	315	x	x	x	x
220	316				
221	317				
222	318				
223	319				
224	320	x	x	x	x
225	321				
226	322				
227	323				
228	324				
229	325	x	x	x	x
230	326				
231	327				
232	328				
233	329				
234	330	x	x	x	x
235	331				
236	332				
237	333				
238	334				
239	335	x	x	x	x
240	336				
241	337				
242	338				
243	339				
244	340	x	x	x	x
245	341				
246	342				
247	343				
248	344				

	A	B	C	D	E
249	345	x	x	x	x
250	346				
251	347				
252	348				
253	349				
254	350	x	x	x	x
255	351				
256	352				
257	353				
258	354				
259	355	x	x	x	x
260	356				
261	357				
262	358				
263	359				
264	360	x	x	x	x
265	361				
266	362				
267	363				
268	364				
269	365	x	x	x	x
270	366				
271	367				
272	368				
273	369				
274	370	x	x	x	x
275	371				
276	372				
277	373				
278	374				
279	375	x	x	x	x
280	376				
281	377				
282	378				
283	379				
284	380	x	x	x	x
285	381				
286	382				
287	383				
288	384				
289	385	x	x	x	x
290	386				
291	387				
292	388				
293	389				
294	390	x	x	x	x
295	391				
296	392				
297	393				
298	394				

	A	B	C	D	E
299	395	x	x	x	x
300	396				
301	397				
302	398				
303	399				
304	400	x	x	x	x
305	401				
306	402				
307	403				
308	404				
309	405	x	x	x	x
310	406				
311	407				
312	408				
313	409				
314	410	x	x	x	x
315	411				
316	412				
317	413				
318	414				
319	415	x	x	x	x
320	416				
321	417				
322	418				
323	419				
324	420	x	x	x	x
325	421				
326	422				
327	423				
328	424				
329	425	x	x	x	x
330	426				
331	427				
332	428				
333	429				
334	430	x	x	x	x
335	431				
336	432				
337	433				
338	434				
339	435	x	x	x	x
340	436				
341	437				
342	438				
343	439				
344	440	x	x	x	x
345	441				
346	442				
347	443				
348	444				

	A	B	C	D	E
349	445	x	x	x	x
350	446				
351	447				
352	448				
353	449				
354	450	x	x	x	x
355	451				
356	452				
357	453				
358	454				
359	455	x	x	x	x
360	456				
361	457				
362	458				
363	459				
364	460	x	x	x	x
365	461				
366	462				
367	463				
368	464				
369	465	x	x	x	x
370	466				
371	467				
372	468				
373	469				
374	470	x	x	x	x
375	471				
376	472				
377	473				
378	474				
379	475	x	x	x	x
380	476				
381	477				
382	478				
383	479				
384	480	x	x	x	x
385	481				
386	482				
387	483				
388	484				
389	485	x	x	x	x
390	486				
391	487				
392	488				
393	489				
394	490	x	x	x	x
395	491				
396	492				
397	493				
398	494				

	A	B	C	D	E
399	495	x	x	x	x
400	496				
401	497				
402	498				
403	499				
404	500	x	x	x	x

	A	B	C
1			
2		7MM RM	.270 WIN
3		Test Gun ID	
4	Round Level	D1	E1
5	501		
6	502		
7	503		
8	504		
9	505	x	x
10	506		
11	507		
12	508		
13	509		
14	510	x	x
15	511		
16	512		
17	513		
18	514		
19	515	x	x
20	516		
21	517		
22	518		
23	519		
24	520	x	x
25	521		
26	522		
27	523		
28	524		
29	525	x	x
30	526		
31	527		
32	528		
33	529		
34	530	x	x
35	531		
36	532		
37	533		
38	534		
39	535	x	x
40	536		
41	537		
42	538		
43	539		
44	540	x	x
45	541		
46	542		
47	543		
48	544		

	A	B	C
49	545	x	x
50	546		
51	547		
52	548		
53	549		
54	550	x	x
55	551		
56	552		
57	553		
58	554		
59	555	x	x
60	556		
61	557		
62	558		
63	559		
64	560	x	x
65	561		
66	562		
67	563		
68	564		
69	565	x	x
70	566		
71	567		
72	568		
73	569		
74	570	x	x
75	571		
76	572		
77	573		
78	574		
79	575	x	x
80	576		
81	577		
82	578		
83	579		
84	580	x	x
85	581		
86	582		
87	583		
88	584		
89	585	x	x
90	586		
91	587		
92	588		
93	589		
94	590	x	x
95	591		
96	592		
97	593		
98	594		

	A	B	C
99	595	x	x
100	596		
101	597		
102	598		
103	599		
104	600	x	x
105	601		
106	602		
107	603		
108	604		
109	605	x	x
110	606		
111	607		
112	608		
113	609		
114	610	x	x
115	611		
116	612		
117	613		
118	614		
119	615	x	x
120	616		
121	617		
122	618		
123	619		
124	620	x	x
125	621		
126	622		
127	623		
128	624		
129	625	x	x
130	626		
131	627		
132	628		
133	629		
134	630	x	x
135	631		
136	632		
137	633		
138	634		
139	635	x	x
140	636		
141	637		
142	638		
143	639		
144	640	x	x
145	641		
146	642		
147	643		
148	644		

	A	B	C
149	645	x	x
150	646		
151	647		
152	648		
153	649		
154	650	x	x
155	651		
156	652		
157	653		
158	654		
159	655	x	x
160	656		
161	657		
162	658		
163	659		
164	660	x	x
165	661		
166	662		
167	663		
168	664		
169	665	x	x
170	666		
171	667		
172	668		
173	669		
174	670	x	x
175	671		
176	672		
177	673		
178	674		
179	675	x	x
180	676		
181	677		
182	678		
183	679		
184	680	x	x
185	681		
186	682		
187	683		
188	684		
189	685	x	x
190	686		
191	687		
192	688		
193	689		
194	690	x	x
195	691		
196	692		
197	693		
198	694		

	A	B	C
199	695	x	x
200	696		
201	697		
202	698		
203	699		
204	700	x	x
205	701		
206	702		
207	703		
208	704		
209	705	x	x
210	706		
211	707		
212	708		
213	709		
214	710	x	x
215	711		
216	712		
217	713		
218	714		
219	715	x	x
220	716		
221	717		
222	718		
223	719		
224	720	x	x
225	721		
226	722		
227	723		
228	724		
229	725	x	x
230	726		
231	727		
232	728		
233	729		
234	730	x	x
235	731		
236	732		
237	733		
238	734		
239	735	x	x
240	736		
241	737		
242	738		
243	739		
244	740	x	x
245	741		
246	742		
247	743		
248	744		

	A	B	C
249	745	x	x
250	746		
251	747		
252	748		
253	749		
254	750	x	x
255	751		
256	752		
257	753		
258	754		
259	755	x	x
260	756		
261	757		
262	758		
263	759		
264	760	x	x
265	761		
266	762		
267	763		
268	764		
269	765	x	x
270	766		
271	767		
272	768		
273	769		
274	770	x	x
275	771		
276	772		
277	773		
278	774		
279	775	x	x
280	776		
281	777		
282	778		
283	779		
284	780	x	x
285	781		
286	782		
287	783		
288	784		
289	785	x	x
290	786		
291	787		
292	788		
293	789		
294	790	x	x
295	791		
296	792		
297	793		
298	794		

	A	B	C
299	795	x	x
300	796		
301	797		
302	798		
303	799		
304	800	x	x
305	801		
306	802		
307	803		
308	804		
309	805	x	x
310	806		
311	807		
312	808		
313	809		
314	810	x	x
315	811		
316	812		
317	813		
318	814		
319	815	x	x
320	816		
321	817		
322	818		
323	819		
324	820	x	x
325	821		
326	822		
327	823		
328	824		
329	825	x	x
330	826		
331	827		
332	828		
333	829		
334	830	x	x
335	831		
336	832		
337	833		
338	834		
339	835	x	x
340	836		
341	837		
342	838		
343	839		
344	840	x	x
345	841		
346	842		
347	843		
348	844		

	A	B	C
349	845	x	x
350	846		
351	847		
352	848		
353	849		
354	850	x	x
355	851		
356	852		
357	853		
358	854		
359	855	x	x
360	856		
361	857		
362	858		
363	859		
364	860	x	x
365	861		
366	862		
367	863		
368	864		
369	865	x	x
370	866		
371	867		
372	868		
373	869		
374	870	x	x
375	871		
376	872		
377	873		
378	874		
379	875	x	x
380	876		
381	877		
382	878		
383	879		
384	880	x	x
385	881		
386	882		
387	883		
388	884		
389	885	x	x
390	886		
391	887		
392	888		
393	889		
394	890	x	x
395	891		
396	892		
397	893		
398	894		

	A	B	C
399	895	x	x
400	896		
401	897		
402	898		
403	899		
404	900	x	x
405	901		
406	902		
407	903		
408	904		
409	905	x	x
410	906		
411	907		
412	908		
413	909		
414	910	x	x
415	911		
416	912		
417	913		
418	914		
419	915	x	x
420	916		
421	917		
422	918		
423	919		
424	920	x	x
425	921		
426	922		
427	923		
428	924		
429	925	x	x
430	926		
431	927		
432	928		
433	929		
434	930	x	x
435	931		
436	932		
437	933		
438	934		
439	935	x	x
440	936		
441	937		
442	938		
443	939		
444	940	x	x
445	941		
446	942		
447	943		
448	944		

	A	B	C
449	945	x	x
450	946		
451	947		
452	948		
453	949		
454	950	x	x
455	951		
456	952		
457	953		
458	954		
459	955	x	x
460	956		
461	957		
462	958		
463	959		
464	960	x	x
465	961		
466	962		
467	963		
468	964		
469	965	x	x
470	966		
471	967		
472	968		
473	969		
474	970	x	x
475	971		
476	972		
477	973		
478	974		
479	975	x	x
480	976		
481	977		
482	978		
483	979		
484	980	x	x
485	981		
486	982		
487	983		
488	984		
489	985	x	x
490	986		
491	987		
492	988		
493	989		
494	990	x	x
495	991		
496	992		
497	993		
498	994		

	A	B	C
499	995	x	x
500	996		
501	997		
502	998		
503	999		
504	1000	x	x

	A	B	C	D	E	F	G	H	I
1									
2	Shooter: B. Lee								
3	Date: 25,26Jul07								
4	Test Activity: Cold, Hot Testing								
5									
6	Cold Test								
7	Task: Given two firearms(B-8,.30.06; C-8,.243 youth), Said firearms were placed in -20.0F for 24 hrs. prior								
8	to test. After 24hrs. Of exposure to temperature, 20rds. Was fired through each firearm @ 2 hr. intervals,								
9	shooting a total of 100 rds. Through each firearm.								
10									
11	Hot Test								
12	Task: Given two firearms(B-8,.30.06; C-8,.243 youth), Said firearms were placed in 120.2F for 24 hrs. prior								
13	to test. After 24hrs. Of exposure to temperature, 20rds. Was fired through each firearm @ 2 hr. intervals,								
14	shooting a total of 100 rds. Through each firearm.								
15									
16									
17	Note: 1 misfire was recorded on B8 rd. 22 of Cold Test.								

Hardness on OD of barrel

Gun ID		A1	B1	C1	D1	E1
Location	Over Lug	43.0	44.4	41.4	39.4	42.9
	Between Lug	41.5	39.0	39.0	42.6	44.1

Microhardness

A1

	A1 - Lug 1		A1 - Lug 2		A1 - Lug 3	
	HRc	HV	HRc	HV	HRc	HV
0.01	43.1	424	42.9	422	42.3	416
0.045	45	445	44	434	44	434
0.085	44.5	441	45.4	450	44.1	436
0.125	44.2	436	44.9	445	44.8	443
0.165	43.7	431	43.9	433	44	434
0.205	44	434	43.3	427	43.1	424
0.24	43.8	431	44	434	43.6	429

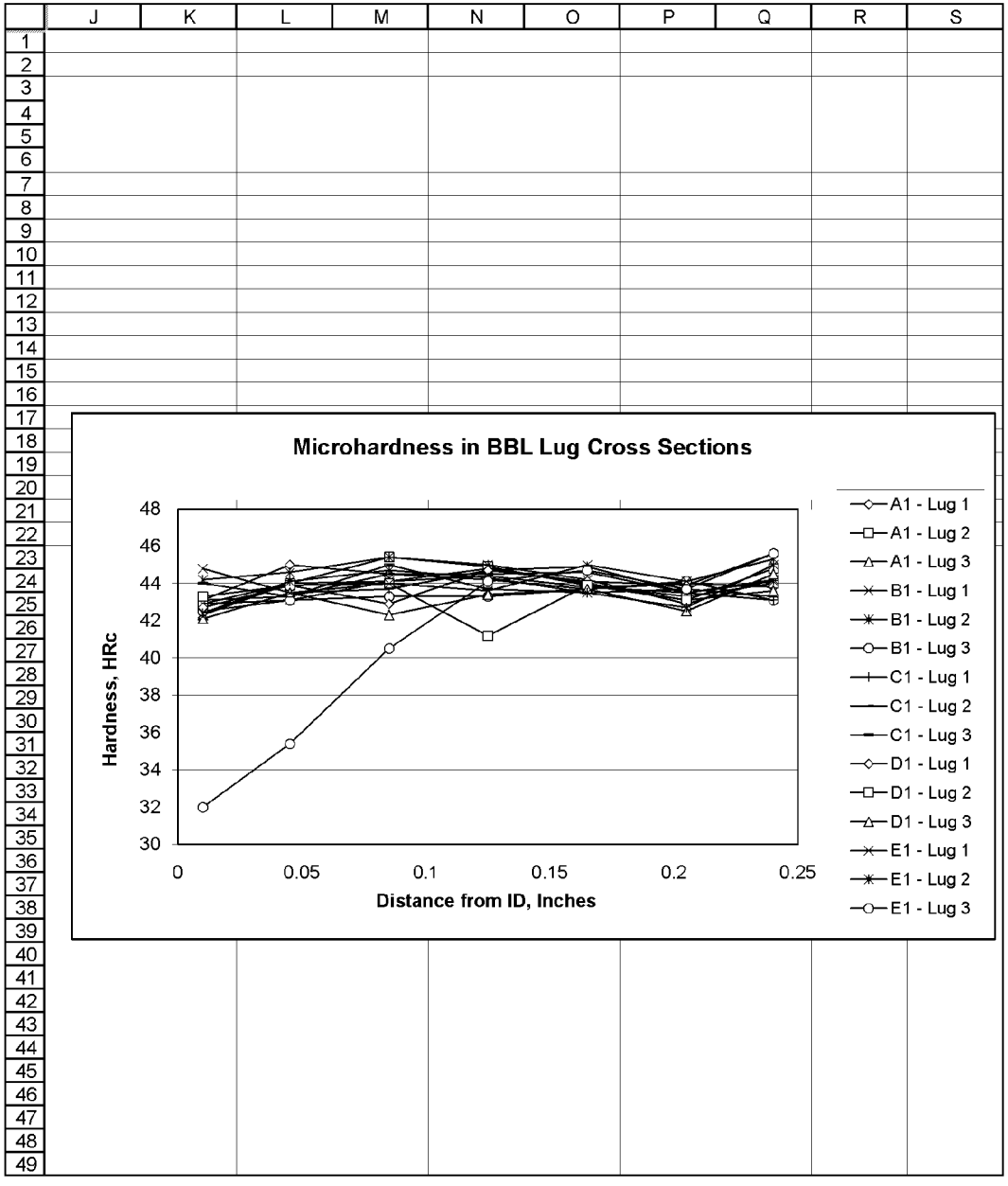
B1

	B1 - Lug 1		B1 - Lug 2		B1 - Lug 3	
	HRc	HV	HRc	HV	HRc	HV
0.01	42.9	422	44.2	436	42.5	418
0.045	43.1	425	44.6	441	43.1	424
0.085	44.1	436	45.4	450	43.3	426
0.125	44.4	438	45	445	43.3	427
0.165	43.8	431	44.2	436	43.7	431
0.205	43.5	429	42.9	422	44.1	436
0.24	44.1	436	44.2	436	43.1	424

C1

	C1 - Lug 1		C1 - Lug 2		C1 - Lug 3	
	HRc	HV	HRc	HV	HRc	HV
0.01	42.1	413	43.1	424	44	434
0.045	43.5	429	43.3	426	43.3	427
0.085	43.7	431	44.5	440	45	446
0.125	44.7	443	44.5	441	43.7	431
0.165	44.9	445	44.6	441	43.5	429
0.205	43.5	429	43.5	429	43.7	431
0.24	43.1	424	44.2	436	43.3	427

D1 7mm


Microhardness in BBL Lug Cross Sections
Hardness, HRc
48
46
44
42
40
38
36
34
32
30
0
0.05
0.1
0.15
0.2
0.25
Distance from ID, Inches
A1 - Lug 1
A1 - Lug 2
A1 - Lug 3
B1 - Lug 1
B1 - Lug 2
B1 - Lug 3
C1 - Lug 1
C1 - Lug 2
C1 - Lug 3
D1 - Lug 1
D1 - Lug 2
D1 - Lug 3
E1 - Lug 1
E1 - Lug 2
E1 - Lug 3

	A	B	C	D	E	F	G	H	I
50			D1 - Lug 1		D1 - Lug 2		D1 - Lug 3		
51			HRc	HV	HRc	HV	HRc	HV	
52		0.01	42.7	419	43.3	426	42.1	413	
53		0.045	43.9	433	43.9	433	43.5	429	
54		0.085	42.9	422	44	434	42.3	416	
55		0.125	44.7	443	41.2	404	43.4	427	
56		0.165	44.1	435	43.9	432	43.7	431	
57		0.205	43.9	433	43.1	424	42.5	417	
58		0.24	45.6	453	44.8	443	44.5	440	
59									
60									
61			E1	270					
62			E1 - Lug 1		E1 - Lug 2		E1 - Lug 3		
63			HRc	HV	HRc	HV	HRc	HV	
64		0.01	44.8	444	42.4	416	32	318	
65		0.045	43.5	429	44.1	435	35.4	346	
66		0.085	44	434	44.7	442	40.5	397	
67		0.125	43.6	430	44.3	439	44.1	435	
68		0.165	45	446	43.5	429	44.7	443	
69		0.205	44.1	435	42.7	420	43.7	431	
70		0.24	45.3	449	45	445	45.6	454	
71									
72									
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75									
76									
77									
78									
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80									
81									
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97									
98									
99									

TLW 2305
2 Aug. 2007

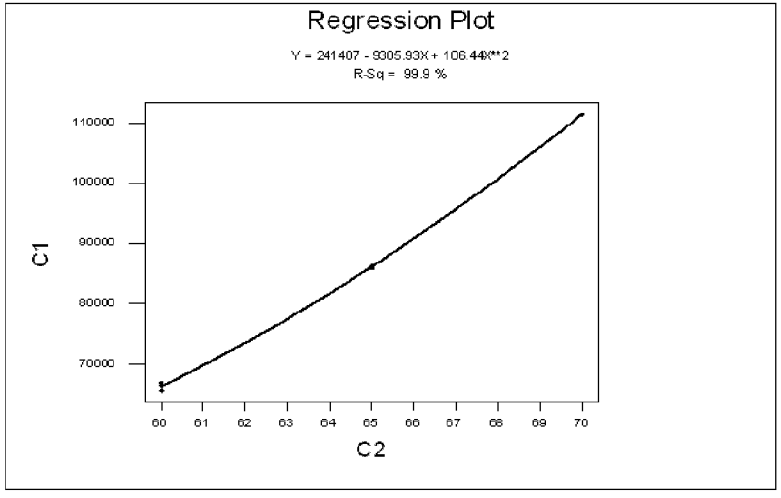
MINITAB CURVE FIT OF EXPERIMENTAL DATA
Quadratic fit with formula shown in Regression Plot

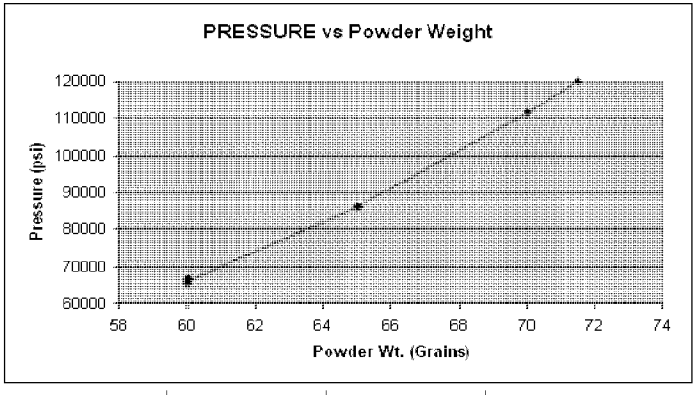
PRESSURE CHECK of HANDLOADED ROUNDS

(G. Howell - 1 Aug. 2007)

Constant = 241407

Pwd Wt(X) (Grains)	Pressure (Y) (psi)	Weight	W^2	Predicted Pressure
60	66821	60.0	3600.00	66235
60	65552	60.1	3612.01	66583
60	66333	60.2	3624.04	66933
65	86060	60.3	3636.09	67285
65	86352	60.4	3648.16	67639
65	86280	60.5	3660.25	67995
70	111548	60.6	3672.36	68354
71.47	**120004**	60.7	3684.49	68714
		60.8	3696.64	69077
		60.9	3708.81	69442
		61.0	3721.00	69809
		61.1	3733.21	70178
		61.2	3745.44	70549
		61.3	3757.69	70922
		61.4	3769.96	71297
		61.5	3782.25	71675
		61.6	3794.56	72055
		61.7	3806.89	72436
		61.8	3819.24	72820
		61.9	3831.61	73207
		62.0	3844.00	73595
		62.1	3856.41	73985
		62.2	3868.84	74377
		62.3	3881.29	74772
		62.4	3893.76	75169
		62.5	3906.25	75568
		62.6	3918.76	75969
		62.7	3931.29	76372
		62.8	3943.84	76777
		62.9	3956.41	77184
		63.0	3969.00	77594
		63.1	3981.61	78005
		63.2	3994.24	78419
		63.3	4006.89	78835
		63.4	4019.56	79253
		63.5	4032.25	79673
		63.6	4044.96	80095
		63.7	4057.69	80520
		63.8	4070.44	80946
		63.9	4083.21	81375
		64.0	4096.00	81806
		64.1	4108.81	82239
		64.2	4121.64	82674





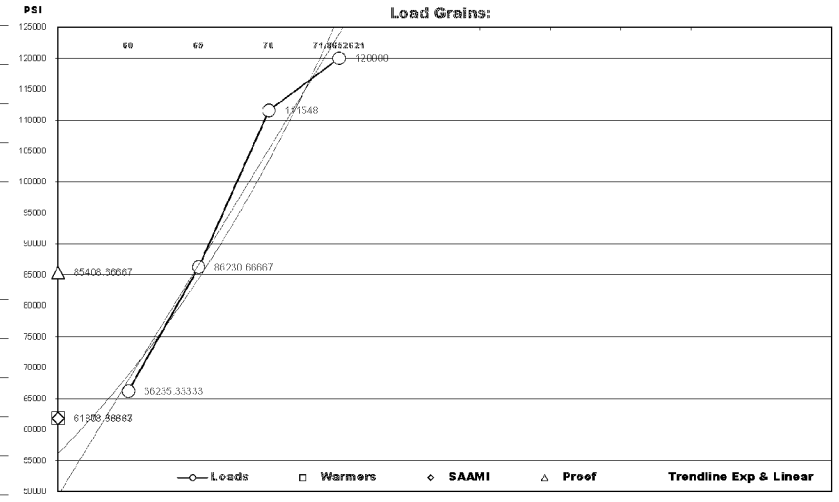
CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

770 Hi-Press Test

Caliber :	**300WM**	Case :	Remington	Powder :	IMR 3031 Cont 528
Date :	1-Aug-07	Primer :	9.5 Large	Lot # :	E97AU19 L1500
Test Lab Req :	Tlw 2305	Bullet / Pellets :	180gr SP	Barrel-Transd :	UR 46 / # 2123
Temp & Hum :	75 / 30			Sens-CF's :	.131 / Rem 9790
References :	Tlw2184			Date Calib :	Apr-07
Estimate Final Load >		**71.9**	grains		**Final Load :**
Target Pressure >		**120000**	psi		**71.5**
Last Load >		**71.0**	grains		grains

Notes: Strain location @ 2.029"

Ammo Type and Load	Warmers Fed GM300WM	SAAMI 300WM-180-8WW	Proof Std	60	65	70	TARGET 71.8653
Average	61874	61808	85409	66235	86231	111548	120000
1	62427	58716	85864	66821	86060	111548	
2	60767	63696	84302	65552	86352		
3	62427	63013	86060	66333	86280		
4							
5							
6							
7							
8							
9							
10							
Offset	9790	9790	9790	9790	9790	9790	
Range 1v=10kpsi	20000	20000	20000	20000	20000	20000	
Previous # :		62442	78377	68300	93298	113900	



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
54				64.3	4134.49	83111												
55				64.4	4147.36	83550												
56				64.5	4160.25	83992												
57				64.6	4173.16	84435												
58				64.7	4186.09	84881												
59				64.8	4199.04	85329												
60				64.9	4212.01	85778												
61				65.0	4225.00	86231												
62				65.1	4238.01	86685												
63				65.2	4251.04	87141												
64				65.3	4264.09	87600												
65				65.4	4277.16	88060												
66				65.5	4290.25	88523												
67				65.6	4303.36	88988												
68				65.7	4316.49	89455												
69				65.8	4329.64	89924												
70				65.9	4342.81	90395												
71				66.0	4356.00	90868												
72				66.1	4369.21	91344												
73				66.2	4382.44	91821												
74				66.3	4395.69	92301												
75				66.4	4408.96	92783												
76				66.5	4422.25	93267												
77				66.6	4435.56	93753												
78				66.7	4448.89	94241												
79				66.8	4462.24	94732												
80				66.9	4475.61	95224												
81				67.0	4489.00	95719												
82				67.1	4502.41	96216												
83				67.2	4515.84	96715												
84				67.3	4529.29	97216												
85				67.4	4542.76	97719												
86				67.5	4556.25	98224												
87				67.6	4569.76	98731												
88				67.7	4583.29	99241												
89				67.8	4596.84	99753												
90				67.9	4610.41	100266												
91				68.0	4624.00	100782												
92				68.1	4637.61	101300												
93				68.2	4651.24	101821												
94				68.3	4664.89	102343												
95				68.4	4678.56	102867												
96				68.5	4692.25	103394												
97				68.6	4705.96	103923												
98				68.7	4719.69	104453												
99				68.8	4733.44	104986												
100				68.9	4747.21	105521												
101				69.0	4761.00	106059												
102				69.1	4774.81	106598												
103				69.2	4788.64	107139												
104				69.3	4802.49	107683												
105				69.4	4816.36	108229												
106				69.5	4830.25	108777												
107				69.6	4844.16	109327												
108				69.7	4858.09	109879												
109				69.8	4872.04	110433												
110				69.9	4886.01	110989												
111				70.0	4900.00	111548												
112				70.1	4914.01	112109												
113				70.2	4928.04	112671												
114				70.3	4942.09	113236												
115				70.4	4956.16	113803												
116				70.5	4970.25	114372												

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
117				70.6	4984.36	114944												
118				70.7	4998.49	115517												
119				70.8	5012.64	116093												
120				70.9	5026.81	116670												
121				71.0	5041.00	117250												
122				71.1	5055.21	117832												
123				71.2	5069.44	118416												
124				71.3	5083.69	119002												
125				71.4	5097.96	119590												
126				71.41	5099.39	119649												
127				71.42	5100.82	119708												
128				71.43	5102.24	119767												
129				71.44	5103.67	119826												
130				71.45	5105.10	119885												
131				71.46	5106.53	119944												
132				**71.47**	**5107.96**	**120004**	**<<<-----USE LOAD OF 71.5 GRAINS IMR 3031 POWDER (Lot # E97AU19L1500)**											
133				71.48	5109.39	120063												
134				71.49	5110.82	120122												
135				71.50	5112.25	120181												
136																		
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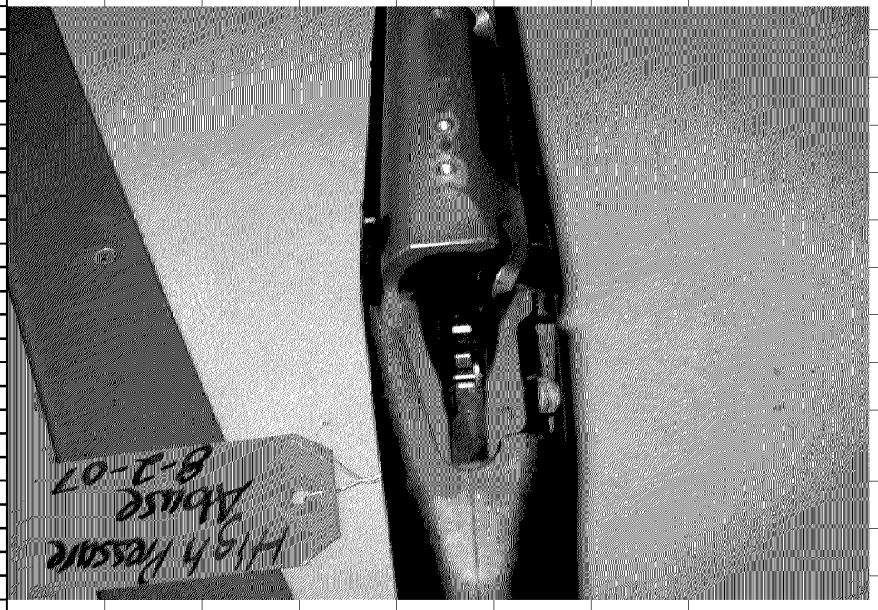
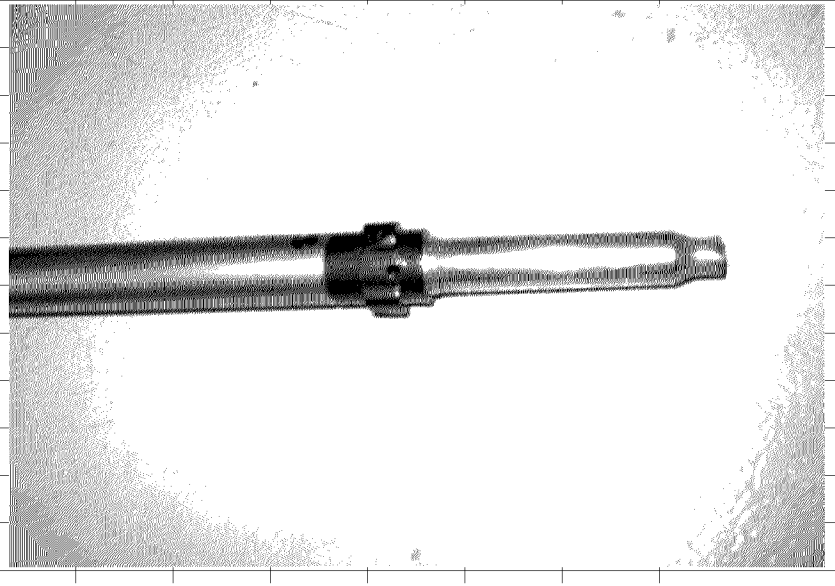
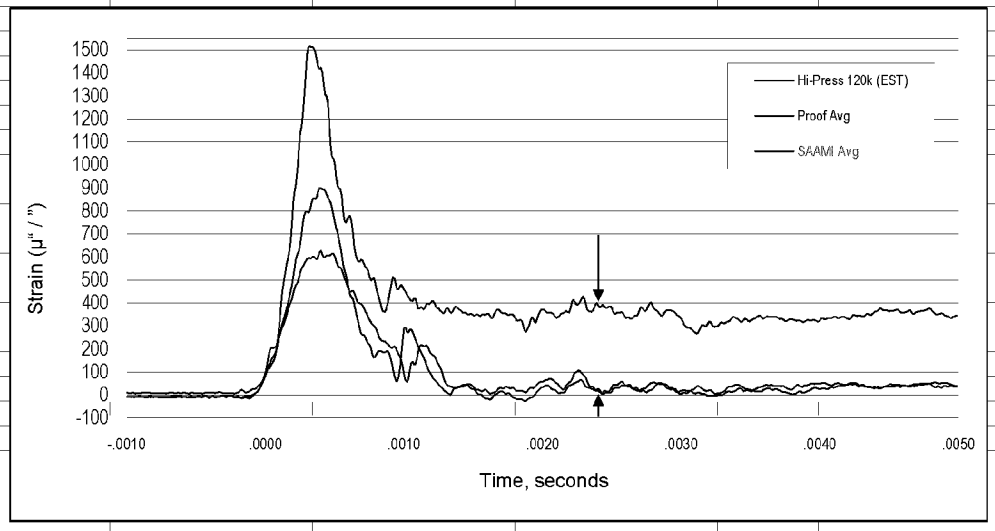
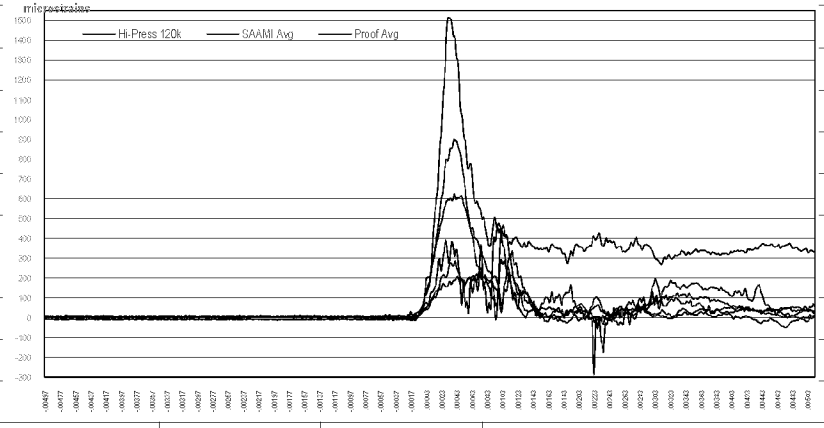


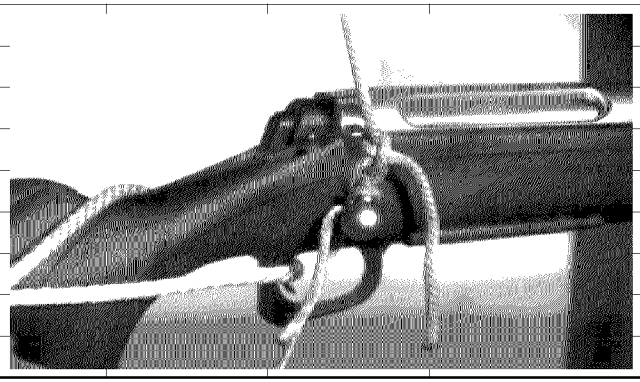



1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
-100
Strain (µ" / ")
-.0010
.0000
.0010
.0020
.0030
.0040
.0050
Time, seconds
Hi-Press 120k (EST)
Proof Avg
SAAMI Avg

770 Stainless Steel Barrels Strains

		Gage 1		Gage 2		
Tlr 2305		Hoop		Axial		Notes:
Date		Max	Min	Max	Min	
2-Aug-07						
1		650	-41	347	-38	SAAMI
2		620	-40	328	-96	SAAMI
3		631	-25	338	-72	SAAMI
4		907	-11	452	-53	Proof
5		887	-16	455	-65	Proof
6		907	-9	524	-136	Proof
7		1515	27	458	-284	Hi-Press 120k / 71.5 grains
Avg		627	-26	337	-31	SAAMI
Avg		900	-5	471	-50	Proof
		Microstains	Microstains	Microstains	Microstains	
> Somat System				Ohms	Pre	Post
> Gun: 300WM / A9 - 71378962				Hoop	120.1	NA
> Trig level 100ue				Axial	120.3	NA





	SAAMI	SAAMI	SAAMI	SAAMI	SAAMI	SAAMI
Time	Hoop Shot 1	Axial Shot 1	Hoop Shot 2	Axial Shot 2	Hoop Shot 3	Axial Shot 3
Seconds	microstrain	microstrain	microstrain	microstrain	microstrain	microstrain
Max	650.01	346.93	620.40	327.58	631.23	337.77
Min	-40.52	-37.85	-40.45	-95.61	-25.35	-72.05
-.004990	-4.57	3.51	-6.19	4.39	-8.70	6.24
-.004980	-3.25	5.28	-6.71	4.91	-10.17	6.53
-.004970	-3.25	3.95	-8.18	6.02	-10.24	5.94
-.004960	-4.65	2.03	-8.62	8.23	-9.73	6.61
-.004950	-4.06	2.99	-9.73	7.42	-9.58	8.23
-.004940	-2.66	3.21	-8.99	6.46	-9.73	7.05
-.004930	-2.29	1.73	-8.03	5.50	-10.02	4.98
-.004920	-4.72	-.04	-6.27	7.27	-10.17	5.94
-.004910	-5.16	.11	-5.90	7.35	-10.02	7.57
-.004900	-5.01	.11	-5.60	6.98	-11.13	5.43
-.004890	-4.72	.70	-7.37	5.57	-10.69	5.43
-.004880	-5.16	1.73	-7.37	5.35	-9.21	7.57
-.004870	-3.84	3.95	-7.37	5.28	-9.36	7.20
-.004860	-3.84	4.54	-6.78	6.46	-11.72	4.02
-.004850	-5.53	3.80	-8.18	7.35	-11.79	5.28
-.004840	-7.45	2.92	-8.99	9.27	-10.69	7.72
-.004830	-6.93	2.69	-10.02	8.75	-10.54	7.35
-.004820	-6.34	1.73	-8.62	7.57	-11.79	4.69
-.004810	-6.71	1.14	-7.15	5.57	-9.95	5.28
-.004800	-6.63	1.81	-6.05	6.02	-9.80	6.46
-.004790	-4.28	3.51	-6.34	6.76	-11.64	6.68
-.004780	-3.47	3.21	-5.46	8.16	-13.41	5.28
-.004770	-4.57	2.47	-5.82	7.20	-12.38	5.13
-.004760	-6.41	3.36	-7.00	5.57	-10.69	5.43
-.004750	-6.63	4.69	-8.40	4.69	-9.80	4.91
-.004740	-6.71	2.77	-8.18	5.57	-12.09	3.51
-.004730	-5.16	1.00	-8.26	5.94	-14.00	2.69
-.004720	-3.39	2.55	-8.03	6.02	-13.34	3.43
-.004710	-3.98	5.06	-7.96	6.39	-11.50	4.02
-.004700	-7.37	3.58	-8.18	7.57	-10.91	3.21
-.004690	-7.37	2.55	-9.88	6.98	-11.42	2.84
-.004680	-5.46	2.40	-8.84	7.86	-10.91	3.95
-.004670	-4.35	3.58	-7.59	7.20	-9.21	3.95
-.004660	-6.41	2.40	-6.19	7.64	-9.73	1.29
-.004650	-6.19	2.47	-6.56	7.64	-10.02	1.59
-.004640	-5.90	2.92	-5.46	8.09	-8.99	4.54
-.004630	-5.31	3.95	-6.56	7.42	-7.89	7.35
-.004620	-3.76	3.73	-8.33	7.64	-10.83	5.50
-.004610	-1.92	3.58	-9.14	7.79	-12.53	5.87
-.004600	-1.92	3.14	-7.30	8.31	-12.01	6.76
-.004590	-4.20	1.88	-6.93	7.86	-9.36	5.87
-.004580	-6.78	1.14	-7.67	8.82	-8.70	3.65
-.004570	-6.86	1.73	-9.36	8.68	-8.77	5.13
-.004560	-5.60	3.14	-9.43	7.79	-9.58	7.20
-.004550	-5.60	4.54	-8.99	5.94	-10.02	6.98
-.004540	-6.93	3.95	-5.82	6.46	-12.31	4.02
-.004530	-6.34	2.62	-5.16	7.35	-13.19	3.43
-.004520	-3.98	1.73	-6.63	9.12	-11.05	5.43
-.004510	-3.10	1.88	-9.43	8.97	-8.99	6.76
-.004500	-6.19	1.66	-10.32	8.53	-9.43	5.13

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1	**Modified Data**													
2	Proof	Proof	Proof	Proof	Proof	Proof		Hi-Press	Hi-Press	SAAMI	SAAMI	Proof	Proof	
3	Hoop Shot 4	Axial Shot 4	Hoop Shot 5	Axial Shot 5	Hoop Shot 6	Axial Shot 6	Time	Hoop Shot 7	Axial Shot 7	Hoop Avg	Axial Avg	Hoop Avg	Axial Avg	
4	microstrain	microstrain	microstrain	microstrain	microstrain	microstrain	Seconds	microstrain	microstrain	stain	stain	stain	stain	
5	907.47	451.81	886.77	455.06	907.25	523.67	Max	1515.07	458.43	626.76	337.43	900.50	470.76	
6	-19.45	-52.92	-16.14	-65.18	-8.99	-135.93	Min	5.16	-284.11	-25.84	-30.98	-10.32	-50.09	
7	-8.55	3.65	-4.94	-1.37	-4.28	1.96	-.004990	6.34	4.96	-6.49	4.71	-5.92	1.41	
8	-11.79	2.62	-3.39	-1.07	-2.07	3.21	-.004980	7.37	6.44	-6.71	5.57	-5.75	1.59	
9	-15.11	.92	-2.07	1.36	-2.80	1.66	-.004970	9.58	6.29	-7.22	5.30	-6.66	1.32	
10	-15.25	.92	-3.76	2.47	-4.13	-.33	-.004960	10.68	4.15	-7.67	5.62	-7.72	1.02	
11	-13.12	3.58	-4.20	3.65	-3.32	-.78	-.004950	9.87	3.19	-7.79	6.21	-6.88	2.15	
12	-12.38	4.84	-3.98	2.77	-1.40	1.88	-.004940	8.84	4.37	-7.13	5.57	-5.92	3.16	
13	-12.60	2.92	-4.13	.55	-2.14	2.77	-.004930	8.25	4.37	-6.78	4.07	-6.29	2.08	
14	-11.28	2.47	-6.12	-.78	-3.03	1.88	-.004920	10.24	4.22	-7.05	4.39	-6.81	1.19	
15	-9.43	3.65	-6.19	1.07	-3.61	-.04	-.004910	9.43	3.19	-7.03	5.01	-6.41	1.56	
16	-10.17	3.65	-5.31	2.25	-2.80	.33	-.004900	9.06	4.89	-7.25	4.17	-6.09	2.08	
17	-11.50	2.69	-2.66	2.32	-2.36	1.81	-.004890	7.66	5.26	-7.59	3.90	-5.51	2.28	
18	-11.64	2.99	-1.77	2.03	-3.25	2.10	-.004880	8.91	5.70	-7.25	4.89	-5.55	2.37	
19	-11.57	2.77	-1.92	4.10	-5.60	.55	-.004870	9.65	5.18	-6.86	5.48	-6.36	2.47	
20	-12.01	1.73	-3.98	4.32	-5.46	.70	-.004860	8.55	5.40	-7.45	5.01	-7.15	2.25	
21	-11.35	2.62	-4.28	3.14	-4.57	.55	-.004850	7.07	7.25	-8.50	5.48	-6.73	2.10	
22	-10.83	3.21	-5.01	.55	-3.76	-.48	-.004840	8.10	7.62	-9.04	6.63	-6.54	1.09	
23	-9.95	1.59	-4.79	-.11	-4.06	-.63	-.004830	9.87	4.66	-9.16	6.26	-6.27	.28	
24	-10.24	.70	-4.43	1.44	-3.39	2.62	-.004820	11.79	2.82	-8.92	4.66	-6.02	1.59	
25	-11.20	2.92	-3.17	4.32	-2.80	3.06	-.004810	9.28	2.67	-7.94	4.00	-5.73	3.43	
26	-13.41	4.39	-5.01	3.80	-2.44	.26	-.004800	7.74	5.26	-7.49	4.76	-6.95	2.82	
27	-12.68	4.47	-4.94	2.69	-3.32	-1.96	-.004790	7.81	6.07	-7.42	5.65	-6.98	1.73	
28	-11.87	2.40	-4.28	.92	-2.88	-.41	-.004780	9.50	6.14	-7.45	5.55	-6.34	.97	
29	-11.94	1.36	-1.70	1.44	-2.51	.85	-.004770	9.58	5.11	-7.59	4.93	-5.38	1.22	
30	-13.04	2.40	-1.92	1.44	-1.55	2.25	-.004760	8.84	4.22	-8.03	4.79	-5.51	2.03	
31	-11.72	4.54	-2.58	1.88	-2.66	1.07	-.004750	8.55	6.14	-8.28	4.76	-5.65	2.50	
32	-9.88	3.06	-4.13	1.36	-3.10	-.19	-.004740	7.22	7.77	-8.99	3.95	-5.70	1.41	
33	-10.32	-.63	-5.09	2.62	-2.44	-.70	-.004730	6.85	7.47	-9.14	3.21	-5.95	.43	
34	-9.95	-.41	-5.82	2.55	-.89	1.29	-.004720	10.31	5.33	-8.26	4.00	-5.55	1.14	
35	-8.99	2.77	-4.65	2.84	-2.07	2.18	-.004710	12.82	3.63	-7.81	5.16	-5.24	2.60	
36	-11.42	4.02	-2.95	2.77	-3.17	1.96	-.004700	12.89	4.96	-8.82	4.79	-5.85	2.92	
37	-14.59	2.55	-1.99	3.95	-4.13	-.04	-.004690	10.46	5.55	-9.56	4.12	-6.91	2.15	
38	-13.71	2.84	-4.06	3.14	-4.28	-.04	-.004680	10.68	6.95	-8.40	4.74	-7.35	1.98	
39	-11.42	3.65	-5.46	.55	-5.31	-.19	-.004670	9.95	5.70	-7.05	4.91	-7.40	1.34	
40	-11.50	2.77	-4.65	-1.22	-3.84	-.63	-.004660	10.02	4.37	-7.45	3.78	-6.66	.31	
41	-11.20	2.10	-2.22	.85	-1.63	-1.52	-.004650	10.17	4.30	-7.59	3.90	-5.01	.48	
42	-9.73	2.77	-3.10	1.29	-1.18	.40	-.004640	10.31	6.44	-6.78	5.18	-4.67	1.49	
43	-8.99	3.95	-3.47	.55	-2.22	2.69	-.004630	9.28	7.32	-6.59	6.24	-4.89	2.40	
44	-11.35	3.06	-3.25	-.48	-1.77	2.99	-.004620	9.80	7.40	-7.64	5.62	-5.46	1.86	
45	-13.26	2.40	-1.85	.77	-2.36	1.07	-.004610	9.43	5.77	-7.86	5.75	-5.82	1.41	
46	-12.90	1.88	-3.54	1.73	-3.17	.63	-.004600	9.87	5.11	-7.08	6.07	-6.54	1.41	
47	-11.79	3.80	-4.43	2.77	-5.31	.18	-.004590	8.99	3.85	-6.83	5.21	-7.18	2.25	
48	-12.38	5.13	-5.16	1.59	-4.87	1.00	-.004580	9.80	4.00	-7.72	4.54	-7.47	2.57	
49	-12.53	5.21	-3.39	1.22	-2.80	1.66	-.004570	9.13	4.07	-8.33	5.18	-6.24	2.69	
50	-12.75	3.14	-2.88	.77	-2.36	1.22	-.004560	9.28	5.26	-8.21	6.04	-6.00	1.71	
51	-11.13	3.65	-3.32	1.44	-6.05	-1.81	-.004550	9.87	5.85	-8.21	5.82	-6.83	1.09	
52	-10.61	3.80	-5.01	.55	-7.30	-2.18	-.004540	11.57	6.22	-8.35	4.81	-7.64	.72	
53	-12.01	2.03	-2.80	-.33	-5.31	.11	-.004530	11.34	6.07	-8.23	4.47	-6.71	.60	
54	-13.26	.40	-2.07	-.78	-3.54	1.44	-.004520	10.17	5.48	-7.22	5.43	-6.29	.36	
55	-11.79	1.66	-3.10	.85	-4.13	-.92	-.004510	10.09	5.18	-7.18	5.87	-6.34	.53	
56	-10.32	3.88	-4.13	2.62	-3.25	-1.00	-.004500	10.76	5.11	-8.65	5.11	-5.90	1.83	

	AC	AD	AE	AF	AG	AH
1						
2		Gages@H1_4538.RN_1_Burst_1	Gages@H1_4538.RN_1_Burst_2	Gages@H1_4538.RN_1_Burst_3	Gages@H1_4538.RN_1_Burst_4	Gages@H1_4538.RN_1_Burst_5
3	Time	H1_4538	H1_4538	H1_4538	H1_4538	H1_4538
4	Seconds	microstrain	microstrain	microstrain	microstrain	microstrain
5	0	-4.57237959	-6.19300842	-8.69761658	-8.55028629	-4.94070435
6	0.00001	-3.24641085	-6.70866299	-10.1709156	-11.79154396	-3.39374065
7	0.00002	-3.24641085	-8.18196201	-10.24458027	-15.10646629	-2.06777191
8	0.00003	-4.64604473	-8.62395191	-9.7289257	-15.25379658	-3.76206541
9	0.00004	-4.05672503	-9.7289257	-9.58159542	-13.1175127	-4.20405531
10	0.00005	-2.65709138	-8.99227619	-9.7289257	-12.38086319	-3.98306036
11	0.00006	-2.28876662	-8.03463173	-10.02358532	-12.60185814	-4.13039017
12	0.00007	-4.71970987	-6.26667356	-10.1709156	-11.2758894	-6.11934376
13	0.00008	-5.1616993	-5.89834881	-10.02358532	-9.43426609	-6.19300842
14	0.00009	-5.01436949	-5.60368919	-11.12855911	-10.1709156	-5.3090291
15	0.0001	-4.71970987	-7.37164736	-10.68657017	-11.49688435	-2.65709138
16	0.00011	-5.1616993	-7.37164736	-9.21327114	-11.64421368	-1.77311206
17	0.00012	-3.83573031	-7.37164736	-9.36060143	-11.57054901	-1.92044199
18	0.00013	-3.83573031	-6.78232813	-11.7178793	-12.01253891	-3.98306036
19	0.00014	-5.53002405	-8.18196201	-11.79154396	-11.34955406	-4.27771997
20	0.00015	-7.4453125	-8.99227619	-10.68657017	-10.8338995	-5.01436949
21	0.00016	-6.92965794	-10.02358532	-10.53923988	-9.94992065	-4.79337454
22	0.00017	-6.34033823	-8.62395191	-11.79154396	-10.24458027	-4.42504978
23	0.00018	-6.70866299	-7.15065289	-9.94992065	-11.20222473	-3.17274594
24	0.00019	-6.63499832	-6.04567862	-9.80259037	-13.41217232	-5.01436949
25	0.0002	-4.27771997	-6.34033823	-11.64421368	-12.67552376	-4.94070435
26	0.00021	-3.4674058	-5.45635891	-13.41217232	-11.86520863	-4.27771997
27	0.00022	-4.57237959	-5.82468367	-12.38086319	-11.93887424	-1.69944715
28	0.00023	-6.41400337	-7.00332308	-10.68657017	-13.04384804	-1.92044199
29	0.00024	-6.63499832	-8.40295696	-9.80259037	-11.7178793	-2.58342648
30	0.00025	-6.70866299	-8.18196201	-12.08620358	-9.87625599	-4.13039017
31	0.00026	-5.1616993	-8.25562668	-14.0014925	-10.31824493	-5.08803463
32	0.00027	-3.39374065	-8.03463173	-13.33650765	-9.94992065	-5.82468367
33	0.00028	-3.98306036	-7.96096706	-11.49688435	-8.99227619	-4.64604473
34	0.00029	-7.37164736	-8.18196201	-10.90756512	-11.42321968	-2.95175099
35	0.0003	-7.37164736	-9.87625599	-11.42321968	-14.59081173	-1.99410689
36	0.00031	-5.45635891	-8.84494591	-10.90756512	-13.70683289	-4.05672503
37	0.00032	-4.35138512	-7.59264231	-9.21327114	-11.42321968	-5.45635891
38	0.00033	-6.41400337	-6.19300842	-9.7289257	-11.49688435	-4.64604473
39	0.00034	-6.19300842	-6.56133318	-10.02358532	-11.20222473	-2.21510172
40	0.00035	-5.89834881	-5.45635891	-8.99227619	-9.7289257	-3.09908104
41	0.00036	-5.3090291	-6.56133318	-7.88730192	-8.99227619	-3.4674058
42	0.00037	-3.76206541	-8.32929134	-10.8338995	-11.34955406	-3.24641085
43	0.00038	-1.92044199	-9.13960648	-12.52819347	-13.26484299	-1.84677696
44	0.00039	-1.92044199	-7.29798269	-12.01253891	-12.89651775	-3.5410707
45	0.0004	-4.20405531	-6.92965794	-9.36060143	-11.79154396	-4.42504978
46	0.00041	-6.78232813	-7.66630745	-8.69761658	-12.38086319	-5.1616993
47	0.00042	-6.85599279	-9.36060143	-8.77128124	-12.52819347	-3.39374065
48	0.00043	-5.60368919	-9.43426609	-9.58159542	-12.74918842	-2.87808609
49	0.00044	-5.60368919	-8.99227619	-10.02358532	-11.12855911	-3.32007575
50	0.00045	-6.92965794	-5.82468367	-12.30719852	-10.61290455	-5.01436949
51	0.00046	-6.34033823	-5.1616993	-13.19117832	-12.01253891	-2.80442119
52	0.00047	-3.98306036	-6.63499832	-11.05489445	-13.26484299	-2.06777191
53	0.00048	-3.09908104	-9.43426609	-8.99227619	-11.79154396	-3.09908104
54	0.00049	-6.19300842	-10.31824493	-9.43426609	-10.31824493	-4.13039017
55	0.0005	-8.25562668	-10.46557522	-10.98122978	-11.57054901	-2.14143682
56	0.00051	-5.89834881	-7.4453125	-11.49688435	-11.79154396	-2.65709138

	AI	AJ	AK	AL	AM	AN
1	**RAW Data**					
2	Gages@H1_4538.RN_1_Burst_6	Gages@A1_4691.RN_1_Burst_1	Gages@A1_4691.RN_1_Burst_2	Gages@A1_4691.RN_1_Burst_3	Gages@A1_4691.RN_1_Burst_4	Gages@A1_4691.RN_1_Burst_5
3	H1_4538	A1_4691	A1_4691	A1_4691	A1_4691	A1_4691
4	microstrain	microstrain	microstrain	microstrain	microstrain	microstrain
5	-4.27771997	3.50656581	4.39282417	6.23919535	3.65427542	-1.36785424
6	-2.06777191	5.2790823	4.90980816	6.53461456	2.62030768	-1.07243478
7	-2.80442119	3.94969487	6.01763058	5.94377565	0.92164612	1.36477518
8	-4.13039017	2.02946877	8.23327637	6.60846949	0.92164612	2.47259784
9	-3.32007575	2.98958182	7.42087269	8.23327637	3.58042073	3.65427542
10	-1.4047873	3.21114635	6.46075964	7.05159855	4.83595324	2.76801729
11	-2.14143682	1.73404944	5.50064659	4.98366261	2.9157269	0.55237186
12	-3.02541614	-0.03846694	7.27316332	5.94377565	2.47259784	-0.77701545
13	-3.6147356	0.10924275	7.34701777	7.56858253	3.65427542	1.06935585
14	-2.80442119	0.10924275	6.97774363	5.42679167	3.65427542	2.25103331
15	-2.36243153	0.70008153	5.57450151	5.42679167	2.69416237	2.32488823
16	-3.24641085	1.73404944	5.35293722	7.56858253	2.98958182	2.02946877
17	-5.60368919	3.94969487	5.2790823	7.1993084	2.76801729	4.09740448
18	-5.45635891	4.54053354	6.46075964	4.02354956	1.73404944	4.31896925
19	-4.57237959	3.80198526	7.34701777	5.2790823	2.62030768	3.13729167
20	-3.76206541	2.9157269	9.26724434	7.71629238	3.21114635	0.55237186
21	-4.05672503	2.69416237	8.75026035	7.34701777	1.58633971	-0.11232179
22	-3.39374065	1.73404944	7.56858253	4.68824339	0.70008153	1.43862998
23	-2.80442119	1.14321065	5.57450151	5.2790823	2.9157269	4.31896925
24	-2.43609643	1.80790424	6.01763058	6.46075964	4.39282417	3.80198526
25	-3.32007575	3.50656581	6.75617933	6.68232441	4.46667862	2.69416237
26	-2.87808609	3.21114635	8.15942097	5.2790823	2.39874315	0.92164612
27	-2.50976157	2.47259784	7.1993084	5.13137245	1.36477518	1.43862998
28	-1.55211723	3.3588562	5.57450151	5.42679167	2.39874315	1.43862998
29	-2.65709138	4.68824339	4.68824339	4.90980816	4.54053354	1.88175917
30	-3.09908104	2.76801729	5.57450151	3.50656581	3.06343675	1.36477518
31	-2.43609643	0.99550092	5.94377565	2.69416237	-0.62930572	2.62030768
32	-0.88913274	2.54645276	6.01763058	3.43271089	-0.40774119	2.54645276
33	-2.06777191	5.05751753	6.38690472	4.02354956	2.76801729	2.84187222
34	-3.17274594	3.58042073	7.56858253	3.21114635	4.02354956	2.76801729
35	-4.13039017	2.54645276	6.97774363	2.84187222	2.54645276	3.94969487
36	-4.27771997	2.39874315	7.86400175	3.94969487	2.84187222	3.13729167
37	-5.3090291	3.58042073	7.1993084	3.94969487	3.65427542	0.55237186
38	-3.83573031	2.39874315	7.64243746	1.29092038	2.76801729	-1.22014451
39	-1.62578213	2.47259784	7.64243746	1.58633971	2.1033237	0.84779125
40	-1.18379247	2.9157269	8.08556652	4.54053354	2.76801729	1.29092038
41	-2.21510172	3.94969487	7.42087269	7.34701777	3.94969487	0.55237186
42	-1.77311206	3.72813034	7.64243746	5.50064659	3.06343675	-0.48159602
43	-2.36243153	3.58042073	7.79014683	5.86992073	2.39874315	0.77393639
44	-3.17274594	3.13729167	8.30713081	6.75617933	1.88175917	1.73404944
45	-5.3090291	1.88175917	7.86400175	5.86992073	3.80198526	2.76801729
46	-4.86703968	1.14321065	8.8241148	3.65427542	5.13137245	1.58633971
47	-2.80442119	1.73404944	8.67640495	5.13137245	5.20522738	1.21706545
48	-2.36243153	3.13729167	7.79014683	7.1993084	3.13729167	0.77393639
49	-6.04567862	4.54053354	5.94377565	6.97774363	3.65427542	1.43862998
50	-7.29798269	3.94969487	6.46075964	4.02354956	3.80198526	0.55237186
51	-5.3090291	2.62030768	7.34701777	3.43271089	2.02946877	-0.33388633
52	-3.5410707	1.73404944	9.11953449	5.42679167	0.40466216	-0.77701545
53	-4.13039017	1.88175917	8.97182465	6.75617933	1.66019464	0.84779125
54	-3.24641085	1.66019464	8.52869511	5.13137245	3.87583995	2.62030768
55	-2.87808609	1.43862998	7.12545347	2.98958182	3.21114635	3.87583995
56	-3.24641085	2.9157269	6.75617933	3.80198526	0.99550092	2.9157269

	AO	AP	AQ	AR	AS	AT
1						
2	Gages@A1_4691.RN_1_Burst_6	Gages@H1_4538.RN_2_Burst_1	Gages@A1_4691.RN_2_Burst_1	SAAMI Hoop Avg	Proof Hoop Avg	SAAMI Axial Avg
3	A1_4691	H1_4538	A1_4691	Computed	Computed	Computed
4	microstrain	microstrain	microstrain	stain	stain	stain
5	1.95561397	6.3355279	4.96018124	-6.48766804	-5.92290354	4.71286201
6	3.21114635	7.36683702	6.43727827	-6.70866299	-5.751019	5.57450151
7	1.66019464	9.57678509	6.28956842	-7.22431755	-6.65955305	5.30370045
8	-0.33388633	10.68175983	4.14777803	-7.66630745	-7.71541739	5.62373829
9	-0.77701545	9.87144566	3.18766499	-7.78908205	-6.880548	6.21457672
10	1.88175917	8.84013653	4.3693428	-7.12609768	-5.92290354	5.57450151
11	2.76801729	8.25081635	4.3693428	-6.78232765	-6.29122829	4.07278633
12	1.88175917	10.23976994	4.22163296	-7.05243301	-6.80688286	4.39282417
13	-0.03846694	9.42945576	3.18766499	-7.02787781	-6.41400337	5.00828123
14	0.3308073	9.06113052	4.88632631	-7.24887276	-6.09478855	4.1712594
15	1.80790424	7.66149712	5.25560093	-7.59264231	-5.50546932	3.90045834
16	2.1033237	8.91380119	5.69872999	-7.24887276	-5.55457878	4.88518953
17	0.55237186	9.65045071	5.18174601	-6.85599327	-6.36489344	5.47602844
18	0.70008153	8.54547596	5.4033103	-7.4453125	-7.15065289	5.00828075
19	0.55237186	7.07217741	7.24968147	-8.50117683	-6.73321772	5.47602844
20	-0.48159602	8.10348701	7.61895609	-9.0413866	-6.53677797	6.63308811
21	-0.62930572	9.87144566	4.66476202	-9.16416073	-6.26667356	6.2638135
22	2.62030768	11.78673363	2.81839085	-8.91861153	-6.02112341	4.66362524
23	3.06343675	9.28212547	2.670681	-7.93641233	-5.72646379	3.99893141
24	0.25695246	7.73516178	5.25560093	-7.49442244	-6.95421267	4.76209831
25	-1.95869303	7.80882692	6.06800413	-7.42075729	-6.97876787	5.64835644
26	-0.40774119	9.50312042	6.14185905	-7.4453125	-6.34033823	5.54988337
27	0.84779125	9.57678509	5.10789108	-7.59264231	-5.38269424	4.93442631
28	2.25103331	8.84013653	4.22163296	-8.03463173	-5.50546932	4.78671646
29	1.06935585	8.54547596	6.14185905	-8.28018188	-5.65279913	4.76209831
30	-0.18617664	7.21950722	7.76666546	-8.99227619	-5.70190907	3.94969487
31	-0.70316058	6.85118246	7.47124624	-9.13960648	-5.94745874	3.21114635
32	1.29092038	10.3134346	5.32945538	-8.25562668	-5.55457878	3.99893141
33	2.17717862	12.81804276	3.63079405	-7.81363726	-5.23536444	5.1559906
34	1.95561397	12.89170742	4.96018124	-8.82039165	-5.84923887	4.78671646
35	-0.03846694	10.46076488	5.55102015	-9.55704117	-6.90510273	4.12202263
36	-0.03846694	10.68175983	6.95426226	-8.40295696	-7.34709263	4.73748016
37	-0.18617664	9.94511032	5.69872999	-7.05243301	-7.39620256	4.90980816
38	-0.62930572	10.01877499	4.3693428	-7.4453125	-6.65955305	3.77736712
39	-1.51556396	10.16610527	4.29548788	-7.59264231	-5.01436949	3.90045834
40	0.40466216	10.3134346	6.43727827	-6.78232813	-4.67059994	5.18060875
41	2.69416237	9.28212547	7.3235364	-6.58588791	-4.89159441	6.23919487
42	2.98958182	9.79778004	7.39739132	-7.64175224	-5.45635891	5.62373829
43	1.06935585	9.42945576	5.77258492	-7.86274719	-5.82468367	5.74682951
44	0.62622672	9.87144566	5.10789108	-7.07698774	-6.53677797	6.06686735
45	0.1830976	8.98746586	3.85235858	-6.83143806	-7.17520761	5.20522738
46	0.99550092	9.79778004	4.00006819	-7.71541739	-7.46986723	4.54053354
47	1.66019464	9.13479614	4.07392311	-8.3292923	-6.24211836	5.18060875
48	1.21706545	9.28212547	5.25560093	-8.20651722	-5.99656868	6.04224873
49	-1.8109833	9.87144566	5.84643936	-8.20651722	-6.83143806	5.82068443
50	-2.18025756	11.56573868	6.21571398	-8.35384655	-7.64175224	4.81133461
51	0.10924275	11.34474373	6.06800413	-8.23107147	-6.70866299	4.46667862
52	1.43862998	10.16610527	5.47716522	-7.22431755	-6.29122829	5.42679167
53	-0.92472512	10.09243965	5.18174601	-7.17520761	-6.34033823	5.86992121
54	-0.99857998	10.7554245	5.10789108	-8.64850616	-5.89834881	5.1067543
55	0.03538791	9.28212547	3.9262135	-9.90081024	-5.53002405	3.8512218
56	1.29092038	8.98746586	4.22163296	-8.28018188	-5.89834881	4.49129725

	AU
1	
2	SAAMI Axial Avg
3	Computed
4	stain
5	1.41401172
6	1.58633971
7	1.31553864
8	1.02011919
9	2.15256023
10	3.16190982
11	2.07870531
12	1.19244719
13	1.56172144
14	2.07870531
15	2.27565169
16	2.37412477
17	2.47259784
18	2.25103331
19	2.1033237
20	1.09397411
21	0.28157073
22	1.58633971
23	3.43271089
24	2.81725407
25	1.73404932
26	0.97088271
27	1.21706545
28	2.02946877
29	2.49721622
30	1.41401172
31	0.42928046
32	1.14321065
33	2.5956893
34	2.9157269
35	2.15256023
36	1.98023236
37	1.34015691
38	0.30618903
39	0.478517
40	1.48786664
41	2.39874315
42	1.8571409
43	1.41401184
44	1.41401172
45	2.25103331
46	2.57107115
47	2.69416237
48	1.70943117
49	1.09397399
50	0.72469985
51	0.6016084
52	0.35542557
53	0.52775359
54	1.83252251
55	2.37412477
56	1.73404944

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
57								-.004490	-8.26	1.44	-10.47	7.13	-10.98	2.99
58								-.004480	-5.90	2.92	-7.45	6.76	-11.50	3.80
59								-.004470	-3.25	6.39	-5.38	6.46	-11.35	6.46
60								-.004460	-4.20	5.43	-5.60	7.13	-11.20	6.90
61								-.004450	-4.43	2.47	-8.84	7.49	-11.05	5.72
62								-.004440	-4.35	.48	-8.70	8.90	-10.91	5.43
63								-.004430	-4.87	2.69	-7.67	8.53	-8.99	6.83
64								-.004420	-7.81	3.29	-6.19	7.64	-7.81	7.27
65								-.004410	-7.67	2.92	-7.08	6.09	-7.52	7.49
66								-.004400	-5.60	2.40	-7.08	6.17	-9.80	6.68
67								-.004390	-3.47	3.73	-7.52	6.98	-10.61	7.27
68								-.004380	-3.32	4.17	-6.12	8.60	-10.54	6.98
69								-.004370	-4.13	3.36	-5.90	7.94	-9.73	6.90
70								-.004360	-4.06	2.84	-5.16	8.16	-9.51	6.31
71								-.004350	-3.39	3.58	-5.82	7.49	-8.55	6.76
72								-.004340	-5.01	2.92	-7.00	6.46	-9.43	6.09
73								-.004330	-5.60	2.47	-8.40	4.54	-9.51	6.46
74								-.004320	-5.09	2.55	-8.48	4.69	-10.24	6.90
75								-.004310	-4.43	2.62	-8.26	5.21	-10.02	7.72
76								-.004300	-4.79	1.59	-7.00	5.60	-11.05	6.46
77								-.004290	-5.01	1.44	-8.11	5.28	-11.28	6.61
78								-.004280	-4.20	3.29	-8.92	6.31	-10.91	7.27
79								-.004270	-3.69	4.25	-8.26	6.02	-10.83	6.90
80								-.004260	-3.98	3.06	-5.31	5.35	-12.38	5.21
81								-.004250	-3.54	2.47	-5.01	5.13	-12.97	4.39
82								-.004240	-3.25	3.06	-6.86	6.98	-11.57	2.99
83								-.004230	-4.28	3.65	-9.14	7.94	-9.88	2.77
84								-.004220	-7.00	2.32	-9.43	8.23	-10.32	4.47
85								-.004210	-7.00	3.21	-9.36	8.16	-10.54	6.61
86								-.004200	-4.87	4.02	-8.84	8.53	-10.17	6.02
87								-.004190	-3.10	3.65	-9.43	7.49	-10.17	4.10
88								-.004180	-5.24	1.29	-9.43	6.68	-10.91	3.21
89								-.004170	-6.34	1.22	-11.05	6.17	-9.58	4.84
90								-.004160	-5.31	2.03	-9.66	7.64	-10.10	5.28
91								-.004150	-3.25	2.62	-7.52	8.68	-11.13	5.28
92								-.004140	-3.39	2.47	-5.46	8.75	-12.09	6.02
93								-.004130	-5.09	2.92	-6.63	6.46	-12.75	6.90
94								-.004120	-5.60	3.29	-7.52	6.17	-12.53	5.65
95								-.004110	-4.20	3.14	-7.37	7.35	-9.58	5.43
96								-.004100	-4.72	3.36	-7.30	7.27	-8.55	4.98
97								-.004090	-6.41	4.25	-9.21	5.35	-10.39	4.98
98								-.004080	-6.12	3.29	-10.17	6.02	-12.90	4.84
99								-.004070	-4.72	1.51	-8.84	8.09	-12.01	6.39
100								-.004060	-5.09	.55	-7.96	8.82	-9.51	6.90
101								-.004050	-5.46	1.96	-11.35	6.39	-8.77	5.57
102								-.004040	-4.65	4.47	-11.50	7.20	-9.51	4.10
103								-.004030	-3.69	5.65	-9.88	9.19	-10.24	4.54
104								-.004020	-4.72	2.25	-8.70	10.89	-11.13	6.53
105								-.004010	-5.75	.55	-8.99	10.23	-11.28	7.72
106								-.004000	-5.53	1.66	-8.40	9.93	-11.35	7.64
107								-.003990	-3.76	3.88	-8.55	8.31	-11.64	6.53
108								-.003980	-4.79	2.99	-9.36	7.27	-12.53	4.54
109								-.003970	-6.78	.85	-9.58	7.79	-12.23	4.91
110								-.003960	-7.00	-.19	-8.26	8.62	-11.94	5.94
111								-.003950	-3.47	2.18	-7.37	7.64	-10.91	5.87
112								-.003940	-2.36	4.25	-6.78	6.39	-9.58	4.84
113								-.003930	-3.98	4.25	-7.30	6.31	-7.52	6.02
114								-.003920	-5.24	3.51	-7.81	6.83	-9.14	6.17
115								-.003910	-4.43	4.32	-7.52	6.98	-11.20	5.06

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
57	-11.57	3.21	-2.14	3.88	-2.88	.04	-.004490	9.28	3.93	-9.90	3.85	-5.53	2.37	
58	-11.79	1.00	-2.66	2.92	-3.25	1.29	-.004480	8.99	4.22	-8.28	4.49	-5.90	1.73	
59	-10.83	1.44	-5.75	.92	-5.01	.33	-.004470	7.96	4.89	-6.66	6.44	-7.20	.90	
60	-10.76	3.36	-7.00	.04	-4.35	.70	-.004460	7.51	6.14	-7.00	6.49	-7.37	1.36	
61	-11.57	4.84	-5.16	1.73	-3.39	1.14	-.004450	8.91	6.22	-8.11	5.23	-6.71	2.57	
62	-12.23	4.17	-5.01	2.32	-1.63	2.40	-.004440	10.98	4.66	-7.99	4.93	-6.29	2.96	
63	-12.68	2.55	-3.61	2.03	-2.95	1.73	-.004430	11.93	3.19	-7.18	6.02	-6.41	2.10	
64	-12.09	.70	-2.66	1.44	-5.60	2.40	-.004420	11.57	3.85	-7.27	6.07	-6.78	1.51	
65	-9.73	.77	-1.77	2.32	-6.78	2.32	-.004410	9.72	4.44	-7.42	5.50	-6.09	1.81	
66	-9.43	1.29	-3.98	2.32	-4.65	.92	-.004400	10.17	5.11	-7.49	5.08	-6.02	1.51	
67	-10.83	2.32	-4.43	3.29	-3.69	-1.22	-.004390	10.31	4.44	-7.20	5.99	-6.32	1.46	
68	-11.50	3.06	-5.31	1.29	-4.65	-.63	-.004380	11.49	6.29	-6.66	6.58	-7.15	1.24	
69	-10.91	3.43	-4.87	.11	-4.72	2.18	-.004370	10.09	6.29	-6.59	6.07	-6.83	1.91	
70	-11.57	2.10	-5.46	-1.37	-3.84	2.62	-.004360	8.77	5.55	-6.24	5.77	-6.95	1.12	
71	-10.76	3.14	-3.76	-.56	-4.28	-1.37	-.004350	8.40	4.66	-5.92	5.94	-6.27	.40	
72	-9.88	3.73	-3.98	-.33	-3.54	-3.44	-.004340	8.25	3.63	-7.15	5.16	-5.80	-.01	
73	-10.54	2.92	-3.25	1.07	-2.66	-2.48	-.004330	8.99	4.22	-7.84	4.49	-5.48	.50	
74	-11.57	1.44	-3.10	1.59	-2.58	-.48	-.004320	9.95	4.07	-7.94	4.71	-5.75	.85	
75	-10.91	2.47	-3.47	1.22	-5.16	-.04	-.004310	10.68	4.59	-7.57	5.18	-6.51	1.22	
76	-10.17	2.99	-5.90	-.56	-5.38	1.00	-.004300	10.90	5.92	-7.62	4.61	-7.15	1.14	
77	-10.17	2.32	-5.16	-.11	-3.54	1.36	-.004290	8.91	5.55	-8.13	4.44	-6.29	1.19	
78	-10.61	1.44	-4.06	-.63	-1.55	1.81	-.004280	8.03	4.44	-8.01	5.62	-5.41	.87	
79	-9.73	1.14	-4.20	-.70	-2.95	.18	-.004270	7.81	3.19	-7.59	5.72	-5.63	.21	
80	-9.36	.63	-5.31	.26	-4.13	.18	-.004260	9.58	4.74	-7.22	4.54	-6.27	.36	
81	-10.91	.63	-4.43	1.96	-4.43	.40	-.004250	10.24	6.29	-7.18	4.00	-6.59	1.00	
82	-12.53	1.73	-3.25	1.51	-1.77	2.18	-.004240	9.43	7.32	-7.22	4.34	-5.85	1.81	
83	-13.41	1.88	-2.36	1.88	-1.99	1.00	-.004230	9.87	7.91	-7.76	4.79	-5.92	1.59	
84	-12.97	2.03	-2.88	3.21	-2.95	.04	-.004220	11.49	6.73	-8.92	5.01	-6.27	1.76	
85	-11.64	3.29	-3.17	4.10	-3.17	-.78	-.004210	12.16	5.70	-8.97	5.99	-6.00	2.20	
86	-12.38	3.58	-3.25	3.36	-2.22	-.11	-.004200	11.05	6.07	-7.96	6.19	-5.95	2.28	
87	-12.38	2.69	-1.55	3.65	-2.66	-.19	-.004190	10.02	6.14	-7.57	5.08	-5.53	2.05	
88	-12.45	1.29	-2.36	2.18	-1.70	.48	-.004180	10.76	6.36	-8.53	3.73	-5.51	1.32	
89	-11.13	1.66	-3.69	1.81	-.74	.55	-.004170	9.65	5.62	-8.99	4.07	-5.19	1.34	
90	-11.57	.85	-4.13	2.25	-.23	.85	-.004160	9.72	4.89	-8.35	4.98	-5.31	1.32	
91	-11.35	.70	-2.73	3.88	-1.99	-.33	-.004150	9.58	3.34	-7.30	5.53	-5.36	1.41	
92	-11.20	.92	-4.94	2.03	-3.32	.11	-.004140	10.24	4.22	-6.98	5.75	-6.49	1.02	
93	-10.32	2.69	-6.19	1.29	-4.28	.70	-.004130	10.39	6.51	-8.16	5.43	-6.93	1.56	
94	-10.47	2.99	-5.68	.55	-3.76	.85	-.004120	9.72	6.66	-8.55	5.03	-6.63	1.46	
95	-11.35	3.51	-3.98	1.00	-3.84	.48	-.004110	9.72	5.77	-7.05	5.30	-6.39	1.66	
96	-12.23	3.43	-4.65	-.11	-4.57	.04	-.004100	9.87	4.44	-6.86	5.21	-7.15	1.12	
97	-11.79	3.95	-5.01	.55	-5.01	-.92	-.004090	9.50	4.07	-8.67	4.86	-7.27	1.19	
98	-12.09	3.58	-5.46	-.26	-2.29	-.41	-.004080	7.88	4.52	-9.73	4.71	-6.61	.97	
99	-11.50	4.69	-3.84	-.85	-1.04	-.63	-.004070	6.26	4.37	-8.53	5.33	-5.46	1.07	
100	-12.31	3.88	-3.39	-.56	-4.06	-1.52	-.004060	7.37	5.70	-7.52	5.43	-6.59	.60	
101	-13.26	2.92	-3.54	2.10	-7.89	-1.07	-.004050	8.10	5.40	-8.53	4.64	-8.23	1.32	
102	-13.71	2.92	-4.57	1.73	-6.41	1.88	-.004040	7.37	5.11	-8.55	5.25	-8.23	2.18	
103	-13.78	2.55	-2.36	1.88	-5.68	1.73	-.004030	7.07	5.26	-7.94	6.46	-7.27	2.05	
104	-12.82	1.81	-2.22	1.22	-6.63	-.04	-.004020	8.03	5.85	-8.18	6.56	-7.22	1.00	
105	-10.47	2.84	-4.50	1.73	-6.49	.11	-.004010	9.95	5.55	-8.67	6.17	-7.15	1.56	
106	-9.29	3.80	-6.12	1.73	-2.07	2.69	-.004000	10.02	3.78	-8.43	6.41	-5.82	2.74	
107	-10.39	2.25	-3.84	2.55	-1.40	1.59	-.003990	9.95	3.56	-7.99	6.24	-5.21	2.13	
108	-10.98	1.44	-2.66	.70	-3.25	-.56	-.003980	9.95	5.85	-8.89	4.93	-5.63	.53	
109	-10.17	3.06	-3.76	.18	-5.38	-1.37	-.003970	7.81	6.29	-9.53	4.52	-6.44	.63	
110	-11.35	2.99	-6.78	1.59	-3.76	.55	-.003960	8.10	6.14	-9.07	4.86	-7.30	1.71	
111	-12.97	1.14	-5.75	4.17	-2.51	1.44	-.003950	8.77	4.66	-7.25	5.23	-7.08	2.25	
112	-14.37	.70	-2.80	3.51	-1.48	1.73	-.003940	8.91	5.03	-6.24	5.16	-6.22	1.98	
113	-13.71	3.21	-.74	2.47	-2.22	.18	-.003930	8.91	6.14	-6.27	5.53	-5.55	1.96	
114	-11.79	4.32	-3.25	1.73	-2.44	.40	-.003920	9.13	6.51	-7.40	5.50	-5.82	2.15	
115	-10.47	3.95	-4.79	2.25	-2.44	.04	-.003910	9.21	5.85	-7.72	5.45	-5.90	2.08	

	AC	AD	AE	AF	AG	AH
57	0.00052	-3.24641085	-5.38269424	-11.34955406	-10.8338995	-5.751019
58	0.00053	-4.20405531	-5.60368919	-11.20222473	-10.76023483	-7.00332308
59	0.00054	-4.42504978	-8.84494591	-11.05489445	-11.57054901	-5.1616993
60	0.00055	-4.35138512	-8.69761658	-10.90756512	-12.23353386	-5.01436949
61	0.00056	-4.86703968	-7.66630745	-8.99227619	-12.67552376	-3.6147356
62	0.00057	-7.81363726	-6.19300842	-7.81363726	-12.08620358	-2.65709138
63	0.00058	-7.66630745	-7.07698774	-7.51897764	-9.7289257	-1.77311206
64	0.00059	-5.60368919	-7.07698774	-9.80259037	-9.43426609	-3.98306036
65	0.0006	-3.4674058	-7.51897764	-10.61290455	-10.8338995	-4.42504978
66	0.00061	-3.32007575	-6.11934376	-10.53923988	-11.49688435	-5.3090291
67	0.00062	-4.13039017	-5.89834881	-9.7289257	-10.90756512	-4.86703968
68	0.00063	-4.05672503	-5.1616993	-9.50793076	-11.57054901	-5.45635891
69	0.00064	-3.39374065	-5.82468367	-8.55028629	-10.76023483	-3.76206541
70	0.00065	-5.01436949	-7.00332308	-9.43426609	-9.87625599	-3.98306036
71	0.00066	-5.60368919	-8.40295696	-9.50793076	-10.53923988	-3.24641085
72	0.00067	-5.08803463	-8.47662163	-10.24458027	-11.57054901	-3.09908104
73	0.00068	-4.42504978	-8.25562668	-10.02358532	-10.90756512	-3.4674058
74	0.00069	-4.79337454	-7.00332308	-11.05489445	-10.1709156	-5.89834881
75	0.0007	-5.01436949	-8.10829735	-11.2758894	-10.1709156	-5.1616993
76	0.00071	-4.20405531	-8.91861153	-10.90756512	-10.61290455	-4.05672503
77	0.00072	-3.68840051	-8.25562668	-10.8338995	-9.7289257	-4.20405531
78	0.00073	-3.98306036	-5.3090291	-12.38086319	-9.36060143	-5.3090291
79	0.00074	-3.5410707	-5.01436949	-12.97018337	-10.90756512	-4.42504978
80	0.00075	-3.24641085	-6.85599279	-11.57054901	-12.52819347	-3.24641085
81	0.00076	-4.27771997	-9.13960648	-9.87625599	-13.41217232	-2.36243153
82	0.00077	-7.00332308	-9.43426609	-10.31824493	-12.97018337	-2.87808609
83	0.00078	-7.00332308	-9.36060143	-10.53923988	-11.64421368	-3.17274594
84	0.00079	-4.86703968	-8.84494591	-10.1709156	-12.38086319	-3.24641085
85	0.0008	-3.09908104	-9.43426609	-10.1709156	-12.38086319	-1.55211723
86	0.00081	-5.23536444	-9.43426609	-10.90756512	-12.45452881	-2.36243153
87	0.00082	-6.34033823	-11.05489445	-9.58159542	-11.12855911	-3.68840051
88	0.00083	-5.3090291	-9.65526104	-10.09724998	-11.57054901	-4.13039017
89	0.00084	-3.24641085	-7.51897764	-11.12855911	-11.34955406	-2.73075628
90	0.00085	-3.39374065	-5.45635891	-12.08620358	-11.20222473	-4.94070435
91	0.00086	-5.08803463	-6.63499832	-12.74918842	-10.31824493	-6.19300842
92	0.00087	-5.60368919	-7.51897764	-12.52819347	-10.46557522	-5.67735386
93	0.00088	-4.20405531	-7.37164736	-9.58159542	-11.34955406	-3.98306036
94	0.00089	-4.71970987	-7.29798269	-8.55028629	-12.23353386	-4.64604473
95	0.0009	-6.41400337	-9.21327114	-10.39191055	-11.79154396	-5.01436949
96	0.00091	-6.11934376	-10.1709156	-12.89651775	-12.08620358	-5.45635891
97	0.00092	-4.71970987	-8.84494591	-12.01253891	-11.49688435	-3.83573031
98	0.00093	-5.08803463	-7.96096706	-9.50793076	-12.30719852	-3.39374065
99	0.00094	-5.45635891	-11.34955406	-8.77128124	-13.26484299	-3.5410707
100	0.00095	-4.64604473	-11.49688435	-9.50793076	-13.70683289	-4.57237959
101	0.00096	-3.68840051	-9.87625599	-10.24458027	-13.78049755	-2.36243153
102	0.00097	-4.71970987	-8.69761658	-11.12855911	-12.82285309	-2.21510172
103	0.00098	-5.751019	-8.99227619	-11.2758894	-10.46557522	-4.49871492
104	0.00099	-5.53002405	-8.40295696	-11.34955406	-9.28693581	-6.11934376
105	0.001	-3.76206541	-8.55028629	-11.64421368	-10.39191055	-3.83573031
106	0.00101	-4.79337454	-9.36060143	-12.52819347	-10.98122978	-2.65709138
107	0.00102	-6.78232813	-9.58159542	-12.23353386	-10.1709156	-3.76206541
108	0.00103	-7.00332308	-8.25562668	-11.93887424	-11.34955406	-6.78232813
109	0.00104	-3.4674058	-7.37164736	-10.90756512	-12.97018337	-5.751019
110	0.00105	-2.36243153	-6.78232813	-9.58159542	-14.36981678	-2.80442119
111	0.00106	-3.98306036	-7.29798269	-7.51897764	-13.70683289	-0.74160287
112	0.00107	-5.23536444	-7.81363726	-9.13960648	-11.79154396	-3.24641085
113	0.00108	-4.42504978	-7.51897764	-11.20222473	-10.46557522	-4.79337454
114	0.00109	-5.23536444	-6.19300842	-11.12855911	-11.42321968	-4.42504978
115	0.0011	-8.03463173	-6.70866299	-8.77128124	-12.52819347	-2.73075628

	AI	AJ	AK	AL	AM	AN
57	-5.01436949	6.38690472	6.46075964	6.46075964	1.43862998	0.92164612
58	-4.35138512	5.42679167	7.12545347	6.9038887	3.3588562	0.03538791
59	-3.39374065	2.47259784	7.49472761	5.72221136	4.83595324	1.73404944
60	-1.62578213	0.478517	8.8979702	5.42679167	4.1712594	2.32488823
61	-2.95175099	2.69416237	8.52869511	6.83003378	2.54645276	2.02946877
62	-5.60368919	3.28500128	7.64243746	7.27316332	0.70008153	1.43862998
63	-6.78232813	2.9157269	6.0914855	7.49472761	0.77393639	2.32488823
64	-4.64604473	2.39874315	6.16534042	6.68232441	1.29092038	2.32488823
65	-3.68840051	3.72813034	6.97774363	7.27316332	2.32488823	3.28500128
66	-4.64604473	4.1712594	8.60255051	6.97774363	3.06343675	1.29092038
67	-4.71970987	3.3588562	7.93785667	6.9038887	3.43271089	0.10924275
68	-3.83573031	2.84187222	8.15942097	6.31305027	2.1033237	-1.36785424
69	-4.27771997	3.58042073	7.49472761	6.75617933	3.13729167	-0.55545086
70	-3.5410707	2.9157269	6.46075964	6.0914855	3.72813034	-0.33388633
71	-2.65709138	2.47259784	4.54053354	6.46075964	2.9157269	1.06935585
72	-2.58342648	2.54645276	4.68824339	6.9038887	1.43862998	1.58633971
73	-5.1616993	2.62030768	5.20522738	7.71629238	2.47259784	1.21706545
74	-5.38269424	1.58633971	5.79606628	6.46075964	2.98958182	-0.55545086
75	-3.5410707	1.43862998	5.2790823	6.60846949	2.32488823	-0.11232179
76	-1.55211723	3.28500128	6.31305027	7.27316332	1.43862998	-0.62930572
77	-2.95175099	4.24511433	6.01763058	6.9038887	1.14321065	-0.70316058
78	-4.13039017	3.06343675	5.35293722	5.20522738	0.62622672	0.25695246
79	-4.42504978	2.47259784	5.13137245	4.39282417	0.62622672	1.95561397
80	-1.77311206	3.06343675	6.97774363	2.98958182	1.73404944	1.51248491
81	-1.99410689	3.65427542	7.93785667	2.76801729	1.88175917	1.88175917
82	-2.95175099	2.32488823	8.23327637	4.46667862	2.02946877	3.21114635
83	-3.17274594	3.21114635	8.15942097	6.60846949	3.28500128	4.09740448
84	-2.21510172	4.02354956	8.52869511	6.01763058	3.58042073	3.3588562
85	-2.65709138	3.65427542	7.49472761	4.09740448	2.69416237	3.65427542
86	-1.69944715	1.29092038	6.68232441	3.21114635	1.29092038	2.17717862
87	-0.74180287	1.21706545	6.16534042	4.83595324	1.66019464	1.80790424
88	-0.22614829	2.02946877	7.64243746	5.2790823	0.84779125	2.25103331
89	-1.99410689	2.62030768	8.67640495	5.2790823	0.70008153	3.87583995
90	-3.32007575	2.47259784	8.75026035	6.01763058	0.92164612	2.02946877
91	-4.27771997	2.9157269	6.46075964	6.9038887	2.69416237	1.29092038
92	-3.76206541	3.28500128	6.16534042	5.64835644	2.98958182	0.55237186
93	-3.83573031	3.13729167	7.34701777	5.42679167	3.50656581	0.99550092
94	-4.57237959	3.3588562	7.27316332	4.98366261	3.43271089	-0.11232179
95	-5.01436949	4.24511433	5.35293722	4.98366261	3.94969487	0.55237186
96	-2.28876662	3.28500128	6.01763058	4.83595324	3.58042073	-0.26003149
97	-1.03646266	1.51248491	8.08556652	6.38690472	4.68824339	-0.85087025
98	-4.05672503	0.55237186	8.8241148	6.9038887	3.87583995	-0.55545086
99	-7.88730192	1.95561397	6.38690472	5.57450151	2.9157269	2.1033237
100	-6.41400337	4.46667862	7.1993084	4.09740448	2.9157269	1.73404944
101	-5.67735386	5.64835644	9.19338894	4.54053354	2.54645276	1.88175917
102	-6.63499832	2.25103331	10.89205074	6.53461456	1.80790424	1.21706545
103	-6.48766804	0.55237186	10.22735691	7.71629238	2.84187222	1.73404944
104	-2.06777191	1.66019464	9.93193722	7.64243746	3.80198526	1.73404944
105	-1.4047873	3.87583995	8.30713081	6.53461456	2.25103331	2.54645276
106	-3.24641085	2.98958182	7.27316332	4.54053354	1.43862998	0.70008153
107	-5.38269424	0.84779125	7.79014683	4.90980816	3.06343675	0.1830976
108	-3.76206541	-0.18617664	8.8241148	5.94377565	2.98958182	1.58633971
109	-2.50976157	2.17717862	7.64243746	5.86992073	1.14321065	4.1712594
110	-1.47845232	4.24511433	6.38690472	4.83595324	0.70008153	3.50656581
111	-2.21510172	4.24511433	6.31305027	6.01763058	3.21114635	2.47259784
112	-2.43609643	3.50656581	6.83003378	6.16534042	4.31896925	1.73404944
113	-2.43609643	4.31896925	6.97774363	5.05751753	3.94969487	2.25103331
114	-1.62578213	4.54053354	7.12545347	4.54053354	2.39874315	1.95561397
115	-2.43609643	2.84187222	6.46075964	5.72221136	1.29092038	1.88175917

	AO	AP	AQ	AR	AS	AT
57	0.3308073	7.95615673	4.88632631	-6.65955305	-7.19976282	6.43614149
58	0.70008153	7.51416731	6.14185905	-7.00332308	-7.37164783	6.48537779
59	1.14321065	8.91380119	6.21571398	-8.10829639	-6.70866299	5.22984552
60	2.39874315	10.97641945	4.66476202	-7.98552227	-6.29122829	4.93442631
61	1.73404944	11.93406391	3.18766499	-7.17520761	-6.41400337	6.01763058
62	2.39874315	11.56573868	3.85235858	-7.27342749	-6.78232813	6.06686735
63	2.32488823	9.72411537	4.44319725	-7.42075777	-6.09478855	5.50064659
64	0.92164612	10.16610527	5.10789108	-7.49442244	-6.02112389	5.08213615
65	-1.22014451	10.3134346	4.44319725	-7.19976282	-6.3157835	5.99301243
66	-0.62930572	11.49207401	6.28956842	-6.65955305	-7.15065289	6.58385134
67	2.17717862	10.09243965	6.28956842	-6.58588839	-6.83143806	6.06686735
68	2.62030768	8.76647091	5.55102015	-6.24211836	-6.95421267	5.77144766
69	-1.36785424	8.39814663	4.66476202	-5.92290354	-6.26667356	5.94377613
70	-3.43579006	8.25081635	3.63079405	-7.15065289	-5.80012894	5.1559906
71	-2.47567701	8.98746586	4.22163296	-7.83819246	-5.48091412	4.49129677
72	-0.48159602	9.94511032	4.07392311	-7.93641233	-5.751019	4.71286154
73	-0.03846694	10.68175983	4.5909071	-7.5680871	-6.51222324	5.18060923
74	0.99550092	10.90275478	5.92029428	-7.61719751	-7.15065289	4.61438847
75	1.36477518	8.91380119	5.55102015	-8.13285255	-6.29122829	4.44206047
76	1.80790424	8.0298214	4.44319725	-8.01007748	-5.40724897	5.62373829
77	0.1830976	7.80882692	3.18766499	-7.59264231	-5.62824392	5.72221136
78	0.1830976	9.57678509	4.73861694	-7.22431755	-6.26667356	4.54053402
79	0.40466216	10.23976994	6.28956842	-7.17520809	-6.58588839	3.99893141
80	2.17717862	9.42945576	7.3235364	-7.22431755	-5.84923887	4.3435874
81	0.99550092	9.87144566	7.91437531	-7.76452732	-5.92290354	4.78671646
82	0.03538791	11.49207401	6.73269796	-8.91861153	-6.26667356	5.00828123
83	-0.77701545	12.15505886	5.69872999	-8.96772194	-5.99656868	5.99301243
84	-0.11232179	11.05008411	6.06800413	-7.96096706	-5.94745874	6.18995857
85	-0.18617664	10.01877499	6.14185905	-7.56808758	-5.53002405	5.08213568
86	0.478517	10.7554245	6.36342335	-8.52573204	-5.50546932	3.72813034
87	0.55237186	9.65045071	5.62487507	-8.99227619	-5.18625402	4.07278633
88	0.84779125	9.72411537	4.88632631	-8.35384655	-5.3090291	4.98366261
89	-0.33388633	9.57678509	3.33537459	-7.29798269	-5.35813904	5.52526474
90	0.10924275	10.23976994	4.22163296	-6.97876787	-6.48766804	5.74682951
91	0.70008153	10.38710022	6.51113319	-8.15740681	-6.92965794	5.42679167
92	0.84779125	9.72411537	6.65884304	-8.55028725	-6.63499832	5.03289938
93	0.478517	9.72411537	5.77258492	-7.05243254	-6.38944817	5.30370045
94	0.03538791	9.87144566	4.44319725	-6.85599279	-7.15065289	5.20522738
95	-0.92472512	9.50312042	4.07392311	-8.67306137	-7.27342749	4.86057138
96	-0.40774119	7.88249207	4.51705217	-9.7289257	-6.61044312	4.71286154
97	-0.62930572	6.26186323	4.3693428	-8.52573204	-5.45635891	5.3283186
98	-1.51556396	7.36683702	5.69872999	-7.51897764	-6.58588791	5.42679167
99	-1.07243478	8.10348701	5.4033103	-8.52573109	-8.23107147	4.63900661
100	1.88175917	7.36683702	5.10789108	-8.55028629	-8.23107147	5.25446367
101	1.73404944	7.07217741	5.25560093	-7.93641233	-7.27342749	6.46075964
102	-0.03846694	8.0298214	5.84643936	-8.18196201	-7.22431755	6.55923271
103	0.10924275	9.94511032	5.55102015	-8.67306137	-7.15065289	6.16534042
104	2.69416237	10.01877499	3.77850389	-8.42751122	-5.82468367	6.41152287
105	1.58633971	9.94511032	3.55693913	-7.98552179	-5.21080923	6.23919487
106	-0.55545086	9.94511032	5.84643936	-8.89405632	-5.62824392	4.93442631
107	-1.36785424	7.80882692	6.28956842	-9.53248596	-6.43855858	4.51591539
108	0.55237186	8.10348701	6.14185905	-9.06594086	-7.29798269	4.86057138
109	1.43862998	8.76647091	4.66476202	-7.24887276	-7.07698822	5.22984552
110	1.73404944	8.91380119	5.03403616	-6.24211836	-6.21756363	5.1559906
111	0.1830976	8.91380119	6.14185905	-6.26667356	-5.55457926	5.52526522
112	0.40466216	9.13479614	6.51113319	-7.39620256	-5.82468367	5.50064659
113	0.03538791	9.20846081	5.84643936	-7.71541739	-5.89834881	5.45141029
114	-0.11232179	8.10348701	5.77258492	-7.51897717	-5.82468367	5.40217352
115	-0.62930572	8.76647091	7.3235364	-7.83819199	-5.89834881	5.00828123

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57	0.89702779
58	1.36477518
59	2.57107115
60	2.96496367
61	2.1033237
62	1.51248491
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65	1.46324837
66	1.24168384
67	1.90637743
68	1.11859238
69	0.40466219
70	-0.01384868
71	0.50313526
72	0.84779119
73	1.21706545
74	1.14321065
75	1.19244719
76	0.87240952
77	0.20771588
78	0.3554256
79	0.99550092
80	1.80790436
81	1.58633971
82	1.75866771
83	2.20179677
84	2.27565169
85	2.05408716
86	1.31553864
87	1.34015691
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89	1.41401172
90	1.02011919
91	1.56172144
92	1.46324825
93	1.66019464
94	1.11859238
95	1.19244719
96	0.97088265
97	1.06935585
98	0.6016084
99	1.31553864
100	2.17717838
101	2.05408716
102	0.99550092
103	1.56172144
104	2.74339914
105	2.12794185
106	0.52775353
107	0.62622672
108	1.70943117
109	2.25103331
110	1.98023224
111	1.95561397
112	2.15256023
113	2.07870531
114	1.41401172
115	0.84779125

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
116								-.003900	-5.24	4.54	-6.19	7.13	-11.13	4.54
117								-.003890	-8.03	2.84	-6.71	6.46	-8.77	5.72
118								-.003880	-10.02	2.03	-8.26	5.50	-9.43	6.61
119								-.003870	-7.67	3.51	-8.62	4.61	-11.87	6.76
120								-.003860	-4.50	3.36	-6.78	5.13	-12.31	6.17
121								-.003850	-3.17	1.44	-7.89	5.06	-9.80	4.69
122								-.003840	-2.95	-.19	-9.29	5.72	-9.07	3.14
123								-.003830	-2.07	1.29	-8.26	8.09	-10.02	3.65
124								-.003820	-2.58	3.06	-5.75	9.56	-10.91	4.10
125								-.003810	-4.43	4.54	-7.81	6.39	-11.20	3.95
126								-.003800	-6.93	5.28	-10.54	3.06	-11.35	4.98
127								-.003790	-5.75	6.39	-10.91	3.73	-10.98	6.90
128								-.003780	-4.13	5.43	-9.21	6.98	-10.32	7.27
129								-.003770	-2.36	4.61	-9.21	8.16	-9.95	6.31
130								-.003760	-4.20	4.10	-7.30	8.97	-9.43	5.72
131								-.003750	-5.90	3.95	-4.87	8.97	-10.17	5.13
132								-.003740	-5.97	2.77	-3.39	8.38	-11.57	4.76
133								-.003730	-3.84	2.47	-5.01	7.27	-11.50	5.43
134								-.003720	-3.98	2.25	-8.70	7.64	-10.32	5.87
135								-.003710	-3.84	2.47	-11.20	7.64	-10.32	6.02
136								-.003700	-4.13	1.14	-9.43	6.76	-11.42	4.98
137								-.003690	-3.61	.85	-6.93	7.05	-9.36	6.09
138								-.003680	-4.57	1.88	-7.15	8.68	-7.30	5.94
139								-.003670	-3.76	4.98	-8.84	8.82	-8.18	4.76
140								-.003660	-2.36	5.72	-7.37	8.31	-10.47	4.69
141								-.003650	-2.80	3.88	-5.97	7.57	-10.39	6.90
142								-.003640	-4.87	1.81	-6.19	7.86	-9.88	7.49
143								-.003630	-5.24	2.77	-8.33	7.20	-10.61	6.98
144								-.003620	-5.01	3.14	-8.55	7.64	-11.50	6.76
145								-.003610	-5.97	2.10	-8.18	8.82	-9.80	6.90
146								-.003600	-7.22	1.96	-8.48	8.97	-8.70	5.43
147								-.003590	-7.00	2.47	-8.84	7.57	-9.14	3.95
148								-.003580	-7.37	1.59	-8.84	6.02	-10.39	3.95
149								-.003570	-7.08	1.00	-9.29	5.13	-10.17	5.28
150								-.003560	-7.37	1.22	-8.99	5.60	-9.07	5.65
151								-.003550	-5.46	2.99	-7.89	7.35	-9.21	4.84
152								-.003540	-4.57	3.06	-6.05	8.23	-10.17	4.54
153								-.003530	-3.54	3.06	-5.90	6.39	-9.14	5.43
154								-.003520	-4.28	2.10	-7.81	5.21	-7.08	5.57
155								-.003510	-5.82	1.59	-10.39	4.91	-8.99	3.80
156								-.003500	-6.41	1.73	-10.10	4.54	-12.53	3.73
157								-.003490	-4.87	3.06	-6.93	4.76	-11.28	6.61
158								-.003480	-4.06	2.84	-5.46	5.87	-7.52	8.01
159								-.003470	-4.72	2.92	-5.60	6.61	-7.81	6.31
160								-.003460	-5.46	2.77	-7.15	5.43	-11.79	2.77
161								-.003450	-2.95	3.65	-8.70	5.50	-11.20	4.69
162								-.003440	-2.66	3.14	-9.51	6.83	-7.96	8.68
163								-.003430	-3.91	2.99	-9.14	7.35	-7.67	8.45
164								-.003420	-6.12	2.77	-8.18	6.53	-11.64	4.10
165								-.003410	-7.00	3.43	-7.00	7.35	-13.78	3.58
166								-.003400	-6.71	3.06	-5.82	9.56	-12.53	6.61
167								-.003390	-6.71	.55	-6.86	8.45	-10.69	7.20
168								-.003380	-7.81	-1.29	-8.11	5.43	-10.61	4.69
169								-.003370	-5.90	1.07	-7.59	3.95	-10.47	4.69
170								-.003360	-1.55	4.76	-6.49	6.24	-9.43	6.90
171								-.003350	-1.33	4.61	-6.78	7.94	-8.70	8.53
172								-.003340	-6.27	.85	-7.52	7.42	-9.88	6.76
173								-.003330	-7.22	1.07	-6.93	6.90	-11.05	5.28
174								-.003320	-4.65	3.14	-6.93	7.57	-11.50	6.17

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
116	-11.42	2.40	-4.43	1.96	-1.63	-.11	-.003900	8.10	5.77	-7.52	5.40	-5.82	1.41	
117	-12.53	1.29	-2.73	1.88	-2.44	-.63	-.003890	8.77	7.32	-7.84	5.01	-5.90	.85	
118	-12.09	1.29	-2.07	2.55	-3.25	.33	-.003880	9.43	7.32	-9.24	4.71	-5.80	1.39	
119	-11.05	4.10	-3.10	4.10	-4.43	.48	-.003870	8.99	6.29	-9.39	4.96	-6.19	2.89	
120	-11.42	5.13	-5.16	4.32	-4.94	.92	-.003860	8.77	7.69	-7.86	4.89	-7.18	3.46	
121	-10.47	4.61	-5.75	2.18	-5.31	.77	-.003850	9.36	8.65	-6.95	3.73	-7.18	2.52	
122	-9.73	2.92	-5.31	-.85	-3.61	1.51	-.003840	10.61	7.10	-7.10	2.89	-6.22	1.19	
123	-10.39	1.96	-2.80	-.78	-4.13	1.29	-.003830	9.43	3.70	-6.78	4.34	-5.78	.82	
124	-12.60	1.59	-2.51	.11	-5.38	1.88	-.003820	7.66	2.60	-6.41	5.57	-6.83	1.19	
125	-12.75	2.40	-4.06	1.00	-6.63	1.44	-.003810	7.66	5.18	-7.81	4.96	-7.81	1.61	
126	-11.28	1.96	-7.08	.40	-5.16	1.29	-.003800	7.88	5.62	-9.61	4.44	-7.84	1.22	
127	-10.54	.85	-6.93	.70	-3.54	-.26	-.003790	9.43	5.85	-9.21	5.67	-7.00	.43	
128	-10.32	1.22	-5.38	1.29	-2.29	.70	-.003780	9.58	6.66	-7.89	6.56	-6.00	1.07	
129	-10.17	2.62	-2.80	2.55	-4.13	1.73	-.003770	8.69	6.36	-7.18	6.36	-5.70	2.30	
130	-10.24	3.51	-3.47	.85	-3.17	2.32	-.003760	9.65	5.40	-6.98	6.26	-5.63	2.23	
131	-10.32	4.10	-2.73	.63	-1.55	.70	-.003750	9.87	4.30	-6.98	6.02	-4.87	1.81	
132	-11.87	3.43	-2.66	-.26	-.45	-1.88	-.003740	9.50	4.96	-6.98	5.30	-4.99	.43	
133	-13.12	2.92	-3.10	-.48	-3.17	-2.84	-.003730	8.40	5.26	-6.78	5.06	-6.46	-.14	
134	-13.19	2.25	-5.60	-1.29	-4.20	.70	-.003720	8.25	4.44	-7.67	5.25	-7.67	.55	
135	-11.50	2.84	-5.01	1.44	-4.65	1.96	-.003710	9.58	3.93	-8.45	5.38	-7.05	2.08	
136	-11.64	2.32	-3.76	2.32	-3.10	1.29	-.003700	10.24	3.70	-8.33	4.29	-6.17	1.98	
137	-11.42	1.66	-4.06	.18	-2.29	-.19	-.003690	10.76	4.66	-6.63	4.66	-5.92	.55	
138	-11.64	1.00	-5.46	-2.55	-1.85	.40	-.003680	9.43	5.70	-6.34	5.50	-6.32	-.38	
139	-11.57	1.14	-4.50	-.92	-3.25	-.48	-.003670	8.62	5.55	-6.93	6.19	-6.44	-.09	
140	-13.12	2.03	-3.98	1.29	-4.20	-1.59	-.003660	7.96	5.03	-6.73	6.24	-7.10	.58	
141	-12.68	4.17	-4.94	2.32	-4.28	-1.59	-.003650	8.40	4.30	-6.39	6.12	-7.30	1.64	
142	-11.64	4.61	-6.63	.85	-2.80	.40	-.003640	9.65	4.37	-6.98	5.72	-7.03	1.96	
143	-11.57	3.80	-5.97	-.04	-2.36	1.73	-.003630	9.87	5.77	-8.06	5.65	-6.63	1.83	
144	-12.09	2.77	-4.06	-.19	-2.07	2.69	-.003620	9.72	6.44	-8.35	5.85	-6.07	1.76	
145	-10.54	2.77	-1.92	1.44	-4.50	.70	-.003610	10.39	5.26	-7.99	5.94	-5.65	1.64	
146	-9.43	1.73	-3.84	1.36	-5.53	-.78	-.003600	9.28	3.04	-8.13	5.45	-6.27	.77	
147	-10.54	.70	-5.68	.92	-4.35	-.78	-.003590	8.84	4.30	-8.33	4.66	-6.86	.28	
148	-13.19	.11	-6.19	.33	-2.66	.92	-.003580	8.25	6.73	-8.87	3.85	-7.35	.45	
149	-13.19	.70	-3.32	1.07	-3.69	2.25	-.003570	8.55	7.40	-8.84	3.80	-6.73	1.34	
150	-11.72	.48	-3.17	.04	-3.61	3.65	-.003560	9.36	6.07	-8.48	4.22	-6.17	1.39	
151	-11.50	.48	-4.43	-.04	-3.39	2.77	-.003550	9.28	4.89	-7.52	5.06	-6.44	1.07	
152	-12.97	.55	-4.57	2.03	-2.88	2.55	-.003540	9.58	4.66	-6.93	5.28	-6.81	1.71	
153	-13.19	1.29	-2.66	3.95	-2.66	2.18	-.003530	9.28	4.89	-6.19	4.96	-6.17	2.47	
154	-12.90	1.59	-4.43	.48	-.15	3.14	-.003520	8.32	6.14	-6.39	4.29	-5.82	1.73	
155	-12.09	2.03	-5.01	-1.37	-.30	1.88	-.003510	8.55	6.51	-8.40	3.43	-5.80	.85	
156	-12.01	1.66	-4.13	.11	-1.92	1.59	-.003500	8.55	4.44	-9.68	3.33	-6.02	1.12	
157	-12.23	1.73	-2.80	2.77	-3.47	.63	-.003490	9.50	3.78	-7.69	4.81	-6.17	1.71	
158	-11.42	1.73	-5.01	1.88	-2.80	-.04	-.003480	9.87	4.81	-5.68	5.57	-6.41	1.19	
159	-10.24	2.32	-5.24	1.81	-3.17	-1.07	-.003470	10.02	6.73	-6.05	5.28	-6.22	1.02	
160	-11.94	2.03	-3.25	2.47	-3.32	-.63	-.003460	10.02	6.14	-8.13	3.65	-6.17	1.29	
161	-12.60	2.92	-2.44	4.10	-3.32	-1.15	-.003450	9.87	4.89	-7.62	4.61	-6.12	1.96	
162	-11.35	2.69	-4.28	4.39	-2.88	-1.96	-.003440	9.72	5.33	-6.71	6.21	-6.17	1.71	
163	-8.77	.77	-4.94	4.10	-3.25	-1.96	-.003430	10.02	6.66	-6.91	6.26	-5.65	.97	
164	-9.58	-2.03	-4.87	2.92	-3.54	-.04	-.003420	10.39	5.77	-8.65	4.47	-6.00	.28	
165	-10.76	-.19	-4.28	2.69	-5.24	-.04	-.003410	11.27	4.44	-9.26	4.79	-6.76	.82	
166	-11.50	3.95	-5.46	.77	-5.09	-.48	-.003400	9.72	3.19	-8.35	6.41	-7.35	1.41	
167	-11.50	5.35	-5.53	-.19	-2.88	-.63	-.003390	8.69	4.00	-8.08	5.40	-6.63	1.51	
168	-12.09	3.14	-4.28	.85	-.67	.63	-.003380	8.84	3.93	-8.84	2.94	-5.68	1.54	
169	-12.16	1.00	-2.22	3.43	-2.51	.92	-.003370	11.34	4.59	-7.99	3.24	-5.63	1.78	
170	-10.61	1.59	-3.54	1.96	-4.50	1.14	-.003360	10.98	4.22	-5.82	5.97	-6.22	1.56	
171	-10.47	3.14	-4.28	.48	-4.72	.11	-.003350	8.99	4.96	-5.60	7.03	-6.49	1.24	
172	-13.19	3.36	-3.69	1.73	-2.22	-.19	-.003340	8.91	5.33	-7.89	5.01	-6.36	1.64	
173	-15.33	1.96	-3.32	4.47	-1.11	.11	-.003330	10.17	4.15	-8.40	4.42	-6.59	2.18	
174	-13.85	1.73	-6.63	2.69	-1.40	1.14	-.003320	9.87	4.52	-7.69	5.62	-7.30	1.86	

	AC	AD	AE	AF	AG	AH
116	0.00111	-10.02358532	-8.25562668	-9.43426609	-12.08620358	-2.06777191
117	0.00112	-7.66630745	-8.62395191	-11.86520863	-11.05489445	-3.09908104
118	0.00113	-4.49871492	-6.78232813	-12.30719852	-11.42321968	-5.1616993
119	0.00114	-3.17274594	-7.88730192	-9.80259037	-10.46557522	-5.751019
120	0.00115	-2.95175099	-9.28693581	-9.06594086	-9.7289257	-5.3090291
121	0.00116	-2.06777191	-8.25562668	-10.02358532	-10.39191055	-2.80442119
122	0.00117	-2.58342648	-5.751019	-10.90756512	-12.60185814	-2.50976157
123	0.00118	-4.42504978	-7.81363726	-11.20222473	-12.74918842	-4.05672503
124	0.00119	-6.92965794	-10.53923988	-11.34955406	-11.2758894	-7.07698774
125	0.0012	-5.751019	-10.90756512	-10.98122978	-10.53923988	-6.92965794
126	0.00121	-4.13039017	-9.21327114	-10.31824493	-10.31824493	-5.38269424
127	0.00122	-2.36243153	-9.21327114	-9.94992065	-10.1709156	-2.80442119
128	0.00123	-4.20405531	-7.29798269	-9.43426609	-10.24458027	-3.4674058
129	0.00124	-5.89834881	-4.86703968	-10.1709156	-10.31824493	-2.73075628
130	0.00125	-5.97201347	-3.39374065	-11.57054901	-11.86520863	-2.65709138
131	0.00126	-3.83573031	-5.01436949	-11.49688435	-13.1175127	-3.09908104
132	0.00127	-3.98306036	-8.69761658	-10.31824493	-13.19117832	-5.60368919
133	0.00128	-3.83573031	-11.20222473	-10.31824493	-11.49688435	-5.01436949
134	0.00129	-4.13039017	-9.43426609	-11.42321968	-11.64421368	-3.76206541
135	0.0013	-3.6147356	-6.92965794	-9.36060143	-11.42321968	-4.05672503
136	0.00131	-4.57237959	-7.15065289	-7.29798269	-11.64421368	-5.45635891
137	0.00132	-3.76206541	-8.84494591	-8.18196201	-11.57054901	-4.49871492
138	0.00133	-2.36243153	-7.37164736	-10.46557522	-13.1175127	-3.98306036
139	0.00134	-2.80442119	-5.97201347	-10.39191055	-12.67552376	-4.94070435
140	0.00135	-4.86703968	-6.19300842	-9.87625599	-11.64421368	-6.63499832
141	0.00136	-5.23536444	-8.32929134	-10.61290455	-11.57054901	-5.97201347
142	0.00137	-5.01436949	-8.55028629	-11.49688435	-12.08620358	-4.05672503
143	0.00138	-5.97201347	-8.18196201	-9.80259037	-10.53923988	-1.92044199
144	0.00139	-7.22431755	-8.47662163	-8.69761658	-9.43426609	-3.83573031
145	0.0014	-7.00332308	-8.84494591	-9.13960648	-10.53923988	-5.67735386
146	0.00141	-7.37164736	-8.84494591	-10.39191055	-13.19117832	-6.19300842
147	0.00142	-7.07698774	-9.28693581	-10.1709156	-13.19117832	-3.32007575
148	0.00143	-7.37164736	-8.99227619	-9.06594086	-11.7178793	-3.17274594
149	0.00144	-5.45635891	-7.88730192	-9.21327114	-11.49688435	-4.42504978
150	0.00145	-4.57237959	-6.04567862	-10.1709156	-12.97018337	-4.57237959
151	0.00146	-3.5410707	-5.89834881	-9.13960648	-13.19117832	-2.65709138
152	0.00147	-4.27771997	-7.81363726	-7.07698774	-12.89651775	-4.42504978
153	0.00148	-5.82468367	-10.39191055	-8.99227619	-12.08620358	-5.01436949
154	0.00149	-6.41400337	-10.09724998	-12.52819347	-12.01253891	-4.13039017
155	0.0015	-4.86703968	-6.92965794	-11.2758894	-12.23353386	-2.80442119
156	0.00151	-4.05672503	-5.45635891	-7.51897764	-11.42321968	-5.01436949
157	0.00152	-4.71970987	-5.60368919	-7.81363726	-10.24458027	-5.23536444
158	0.00153	-5.45635891	-7.15065289	-11.79154396	-11.93887424	-3.24641085
159	0.00154	-2.95175099	-8.69761658	-11.20222473	-12.60185814	-2.43609643
160	0.00155	-2.65709138	-9.50793076	-7.96096706	-11.34955406	-4.27771997
161	0.00156	-3.90939546	-9.13960648	-7.66630745	-8.77128124	-4.94070435
162	0.00157	-6.11934376	-8.18196201	-11.64421368	-9.58159542	-4.86703968
163	0.00158	-7.00332308	-7.00332308	-13.78049755	-10.76023483	-4.27771997
164	0.00159	-6.70866299	-5.82468367	-12.52819347	-11.49688435	-5.45635891
165	0.0016	-6.70866299	-6.85599279	-10.68657017	-11.49688435	-5.53002405
166	0.00161	-7.81363726	-8.10829735	-10.61290455	-12.08620358	-4.27771997
167	0.00162	-5.89834881	-7.59264231	-10.46557522	-12.15986919	-2.21510172
168	0.00163	-1.55211723	-6.48766804	-9.43426609	-10.61290455	-3.5410707
169	0.00164	-1.3311224	-6.78232813	-8.69761658	-10.46557522	-4.27771997
170	0.00165	-6.26667356	-7.51897764	-9.87625599	-13.19117832	-3.68840051
171	0.00166	-7.22431755	-6.92965794	-11.05489445	-15.32746124	-3.32007575
172	0.00167	-4.64604473	-6.92965794	-11.49688435	-13.85416222	-6.63499832
173	0.00168	-2.36243153	-8.77128124	-11.79154396	-10.09724998	-6.63499832
174	0.00169	-3.5410707	-9.94992065	-12.30719852	-9.21327114	-4.42504978

	AI	AJ	AK	AL	AM	AN
116	-3.24641085	2.02946877	5.50064659	6.60846949	1.29092038	2.54645276
117	-4.42504978	3.50656581	4.61438847	6.75617933	4.09740448	4.09740448
118	-4.94070435	3.3588562	5.13137245	6.16534042	5.13137245	4.31896925
119	-5.3090291	1.43862998	5.05751753	4.68824339	4.61438847	2.17717862
120	-3.6147356	-0.18617664	5.72221136	3.13729167	2.9157269	-0.85087025
121	-4.13039017	1.29092038	8.08556652	3.65427542	1.95561397	-0.77701545
122	-5.38269424	3.06343675	9.56266308	4.09740448	1.58633971	0.10924275
123	-6.63499832	4.54053354	6.38690472	3.94969487	2.39874315	0.99550092
124	-5.1616993	5.2790823	3.06343675	4.98366261	1.95561397	0.40466216
125	-3.5410707	6.38690472	3.72813034	6.9038887	0.84779125	0.70008153
126	-2.28876662	5.42679167	6.97774363	7.27316332	1.21706545	1.29092038
127	-4.13039017	4.61438847	8.15942097	6.31305027	2.62030768	2.54645276
128	-3.17274594	4.09740448	8.97182465	5.72221136	3.50656581	0.84779125
129	-1.55211723	3.94969487	8.97182465	5.13137245	4.09740448	0.62622672
130	-0.44714311	2.76801729	8.38098621	4.76209831	3.43271089	-0.26003149
131	-3.17274594	2.47259784	7.27316332	5.42679167	2.9157269	-0.48159602
132	-4.20405531	2.25103331	7.64243746	5.86992073	2.25103331	-1.29399931
133	-4.64604473	2.47259784	7.64243746	6.01763058	2.84187222	1.43862998
134	-3.09908104	1.14321065	6.75617933	4.98366261	2.32488823	2.32488823
135	-2.28876662	0.84779125	7.05159855	6.0914855	1.66019464	0.1830976
136	-1.84677696	1.88175917	8.67640495	5.94377565	0.99550092	-2.5495317
137	-3.24641085	4.98366261	8.8241148	4.76209831	1.14321065	-0.92472512
138	-4.20405531	5.72221136	8.30713081	4.68824339	2.02946877	1.29092038
139	-4.27771997	3.87583995	7.56858253	6.9038887	4.1712594	2.32488823
140	-2.80442119	1.80790424	7.86400175	7.49472761	4.61438847	0.84779125
141	-2.36243153	2.76801729	7.1993084	6.97774363	3.80198526	-0.03846694
142	-2.06777191	3.13729167	7.64243746	6.75617933	2.76801729	-0.18617664
143	-4.49871492	2.1033237	8.8241148	6.9038887	2.76801729	1.43862998
144	-5.53002405	1.95561397	8.97182465	5.42679167	1.73404944	1.36477518
145	-4.35138512	2.47259784	7.56858253	3.94969487	0.70008153	0.92164612
146	-2.65709138	1.58633971	6.01763058	3.94969487	0.10924275	0.3308073
147	-3.68840051	0.99550092	5.13137245	5.2790823	0.70008153	1.06935585
148	-3.6147356	1.21706545	5.79606628	5.64835644	0.478517	0.03538791
149	-3.39374065	2.98958182	7.34701777	4.83595324	0.478517	-0.03846694
150	-2.87808609	3.06343675	8.23327637	4.54053354	0.55237186	2.02946877
151	-2.65709138	3.06343675	6.38690472	5.42679167	1.29092038	3.94969487
152	-0.15248336	2.1033237	5.20522738	5.57450151	1.58633971	0.478517
153	-0.29981324	1.58633971	4.90980816	3.80198526	2.02946877	-1.36785424
154	-1.92044199	1.73404944	4.54053354	3.72813034	1.66019464	0.10924275
155	-3.4674058	3.06343675	4.76209831	6.60846949	1.73404944	2.76801729
156	-2.80442119	2.84187222	5.86992073	6.01171112	1.73404944	1.88175917
157	-3.17274594	2.9157269	6.60846949	6.31305027	2.32488823	1.80790424
158	-3.32007575	2.76801729	5.42679167	2.76801729	2.02946877	2.47259784
159	-3.32007575	3.65427542	5.50064659	4.68824339	2.9157269	4.09740448
160	-2.87808609	3.13729167	6.83003378	8.67640495	2.69416237	4.39282417
161	-3.24641085	2.98958182	7.34701777	8.45484066	0.77393639	4.09740448
162	-3.5410707	2.76801729	6.53461456	4.09740448	-2.03254795	2.9157269
163	-5.23536444	3.43271089	7.34701777	3.58042073	-0.18617664	2.69416237
164	-5.08803463	3.06343675	9.56266308	6.60846949	3.94969487	0.77393639
165	-2.87808609	0.55237186	8.45484066	7.1993084	5.35293722	-0.18617664
166	-0.66813797	-1.29399931	5.42679167	4.68824339	3.13729167	0.84779125
167	-2.50976157	1.06935585	3.94969487	4.68824339	0.99550092	3.43271089
168	-4.49871492	4.76209831	6.23919535	6.9038887	1.58633971	1.95561397
169	-4.71970987	4.61438847	7.93785667	8.52869511	3.13729167	0.478517
170	-2.21510172	0.84779125	7.42087269	6.75617933	3.3588562	1.73404944
171	-1.11012757	1.06935585	6.9038887	5.2790823	1.95561397	4.46667862
172	-1.4047873	3.13729167	7.56858253	6.16534042	1.73404944	2.69416237
173	-3.24641085	4.39282417	6.31305027	6.23919535	4.09740448	1.88175917
174	-3.02541614	2.9157269	5.2790823	4.1712594	4.39282417	2.76801729

	AO	AP	AQ	AR	AS	AT
116	0.3308073	9.42945576	7.3235364	-9.23782635	-5.80012894	4.71286154
117	0.478517	8.98746586	6.28956842	-9.38515568	-6.19300842	4.95904446
118	0.92164612	8.76647091	7.69281054	-7.86274719	-7.17520761	4.88518953
119	0.77393639	9.35579109	8.65292358	-6.95421267	-7.17520761	3.72813034
120	1.51248491	10.60809422	7.1019721	-7.10154247	-6.21756363	2.89110875
121	1.29092038	9.42945576	3.70464897	-6.78232813	-5.77557373	4.3435874
122	1.88175917	7.66149712	2.59682631	-6.41400337	-6.83143806	5.57450151
123	1.43862998	7.66149712	5.18174601	-7.81363726	-7.81363726	4.95904446
124	1.29092038	7.88249207	5.62487507	-9.60615063	-7.83819199	4.44206047
125	-0.26003149	9.42945576	5.84643936	-9.21327114	-7.0033226	5.67297459
126	0.70008153	9.57678509	6.65884304	-7.88730192	-5.99656868	6.55923271
127	1.73404944	8.69280624	6.36342335	-7.17520761	-5.70190907	6.36228657
128	2.32488823	9.65045071	5.4033103	-6.97876787	-5.62824392	6.2638135
129	0.70008153	9.87144566	4.29548788	-6.97876787	-4.86703968	6.01763058
130	-1.8848381	9.50312042	4.96018124	-6.97876787	-4.98981428	5.30370045
131	-2.84495115	8.39814663	5.25560093	-6.78232813	-6.46311331	5.05751753
132	0.70008153	8.25081635	4.44319725	-7.66630745	-7.66630745	5.25446367
133	1.95561397	9.57678509	3.9262135	-8.45206642	-7.05243301	5.37755537
134	1.29092038	10.23976994	3.70464897	-8.3292923	-6.16845322	4.29435062
135	-0.18617664	10.7554245	4.66476202	-6.63499832	-5.92290401	4.66362524
136	0.40466216	9.42945576	5.69872999	-6.34033823	-6.31578302	5.50064659
137	-0.48159602	8.61914158	5.55102015	-6.92965794	-6.4385581	6.18995857
138	-1.58941877	7.95615673	5.03403616	-6.73321819	-7.10154295	6.23919535
139	-1.58941877	8.39814663	4.29548788	-6.38944817	-7.29798269	6.11610365
140	0.40466216	9.65045071	4.3693428	-6.97876787	-7.02787781	5.72221136
141	1.73404944	9.87144566	5.77258492	-8.05918694	-6.63499784	5.64835644
142	2.69416237	9.72411537	6.43727827	-8.35384655	-6.07023335	5.84530258
143	0.70008153	10.38710022	5.25560093	-7.98552179	-5.65279913	5.94377565
144	-0.77701545	9.28212547	3.03995538	-8.1328516	-6.26667356	5.45141029
145	-0.77701545	8.84013653	4.29548788	-8.3292923	-6.85599279	4.66362524
146	0.92164612	8.25081635	6.73269796	-8.86950111	-7.34709263	3.8512218
147	2.25103331	8.54547596	7.39739132	-8.84494591	-6.73321819	3.80198526
148	3.65427542	9.35579109	6.06800413	-8.47662163	-6.16845369	4.22049618
149	2.76801729	9.28212547	4.88632631	-7.51897717	-6.4385581	5.05751753
150	2.54645276	9.57678509	4.66476202	-6.92965794	-6.80688286	5.2790823
151	2.17717862	9.28212547	4.88632631	-6.19300842	-6.16845369	4.95904446
152	3.13729167	8.32448196	6.14185905	-6.38944817	-5.82468367	4.29435062
153	1.88175917	8.54547596	6.51113319	-8.40295696	-5.80012894	3.43271112
154	1.58633971	8.54547596	4.44319725	-9.67981529	-6.02112389	3.33423781
155	0.62622672	9.50312042	3.77850389	-7.69086218	-6.16845369	4.81133461
156	-0.03846694	9.87144566	4.81247187	-5.67735386	-6.41400337	5.57450151
157	-1.07243478	10.01877499	6.73269796	-6.04567862	-6.21756363	5.2790823
158	-0.62930572	10.01877499	6.14185905	-8.1328516	-6.16845369	3.65427542
159	-1.14628971	9.87144566	4.88632631	-7.61719751	-6.11934328	4.61438847
160	-1.95869303	9.72411537	5.32945538	-6.70866299	-6.16845322	6.21457672
161	-1.95869303	10.01877499	6.65884304	-6.90510321	-5.65279865	6.2638135
162	-0.03846694	10.38710022	5.77258492	-8.64850616	-5.99656868	4.46667862
163	-0.03846694	11.27107906	4.44319725	-9.26238155	-6.75777292	4.78671646
164	-0.48159602	9.72411537	3.18766499	-8.35384655	-7.34709263	6.41152287
165	-0.62930572	8.69280624	4.00006819	-8.08374214	-6.63499832	5.40217352
166	0.62622672	8.84013653	3.9262135	-8.84494591	-5.67735386	2.94034529
167	0.92164612	11.34474373	4.5909071	-7.98552227	-5.6282444	3.23576474
168	1.14321065	10.97641945	4.22163296	-5.82468367	-6.21756363	5.96839428
169	0.10924275	8.98746586	4.96018124	-5.60368919	-6.48766851	7.02697992
170	-0.18617664	8.91380119	5.32945538	-7.8873024	-6.36489344	5.00828123
171	0.10924275	10.16610527	4.14777803	-8.40295696	-6.58588839	4.41744232
172	1.14321065	9.87144566	4.51705217	-7.69086218	-7.29798269	5.62373829
173	0.55237186	9.35579109	5.03403616	-7.64175224	-6.65955305	5.64835644
174	0.99550092	9.87144566	5.32945538	-8.59939671	-5.55457878	4.12202263

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116	1.38939345
117	2.89110875
118	3.45732927
119	2.52183437
120	1.19244719
121	0.82317299
122	1.19244719
123	1.61095798
124	1.21706545
125	0.42928043
126	1.06935573
127	2.30027008
128	2.22641516
129	1.80790424
130	0.42928043
131	-0.13694009
132	0.55237186
133	2.07870531
134	1.98023224
135	0.55237186
136	-0.38312286
137	-0.0877035
138	0.57699013
139	1.63557625
140	1.95561397
141	1.83252263
142	1.75866771
143	1.63557625
144	0.77393639
145	0.28157073
146	0.45389873
147	1.34015691
148	1.38939345
149	1.06935573
150	1.70943117
151	2.47259808
152	1.73404944
153	0.84779125
154	1.11859238
155	1.70943117
156	1.19244719
157	1.02011919
158	1.29092026
159	1.95561385
160	1.70943117
161	0.97088259
162	0.28157067
163	0.82317293
164	1.41401172
165	1.51248491
166	1.53710318
167	1.78328598
168	1.56172144
169	1.24168384
170	1.63557637
171	2.17717838
172	1.85714078
173	2.17717838
174	2.71878076

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
175								-.003310	-2.36	4.39	-8.77	6.31	-11.79	6.24
176								-.003300	-3.54	2.92	-9.95	5.28	-12.31	4.17
177								-.003290	-4.57	2.40	-10.32	5.72	-11.87	1.88
178								-.003280	-4.79	2.62	-10.91	7.13	-10.91	2.92
179								-.003270	-4.87	2.92	-11.64	6.83	-9.29	6.31
180								-.003260	-5.53	2.32	-12.82	6.02	-8.77	7.49
181								-.003250	-4.28	2.47	-10.91	6.39	-9.43	6.39
182								-.003240	-3.10	1.22	-8.92	6.09	-10.32	5.35
183								-.003230	-1.63	2.62	-7.89	5.43	-9.80	5.21
184								-.003220	-3.03	3.65	-7.52	5.60	-8.99	4.98
185								-.003210	-5.46	3.21	-6.56	7.86	-8.03	4.25
186								-.003200	-6.05	2.03	-7.22	7.86	-10.02	3.95
187								-.003190	-5.16	2.92	-8.99	5.57	-10.54	5.43
188								-.003180	-6.34	3.21	-9.51	4.10	-10.61	5.65
189								-.003170	-7.08	3.06	-8.92	4.84	-10.32	4.25
190								-.003160	-5.01	1.66	-7.00	6.76	-11.05	3.36
191								-.003150	-1.40	1.51	-6.86	6.46	-10.76	5.28
192								-.003140	-3.10	1.29	-8.70	4.39	-10.32	5.80
193								-.003130	-5.60	3.06	-8.84	3.95	-10.32	5.06
194								-.003120	-5.24	3.58	-6.63	6.68	-10.24	6.24
195								-.003110	-2.44	3.21	-6.93	7.86	-10.24	7.79
196								-.003100	-3.47	.85	-9.36	7.79	-10.76	6.02
197								-.003090	-4.79	.85	-9.73	7.49	-10.32	4.25
198								-.003080	-5.60	2.62	-6.41	8.53	-10.32	4.02
199								-.003070	-4.65	3.88	-5.16	8.53	-10.02	4.54
200								-.003060	-4.57	2.03	-8.03	7.49	-10.32	3.06
201								-.003050	-3.32	2.55	-9.95	6.61	-9.14	5.28
202								-.003040	-3.84	4.76	-7.67	6.53	-9.07	8.31
203								-.003030	-5.46	5.87	-6.41	6.90	-10.69	8.60
204								-.003020	-7.59	3.51	-8.84	7.27	-12.23	5.72
205								-.003010	-6.63	1.73	-9.58	8.62	-10.98	4.84
206								-.003000	-4.94	2.03	-8.03	8.68	-9.73	5.57
207								-.002990	-4.28	4.61	-6.71	7.27	-10.61	6.90
208								-.002980	-5.75	5.06	-8.99	6.31	-11.35	7.20
209								-.002970	-5.01	3.80	-10.24	8.90	-10.91	5.57
210								-.002960	-3.84	3.36	-9.14	9.64	-9.88	4.54
211								-.002950	-4.28	4.54	-6.78	8.16	-7.37	6.09
212								-.002940	-7.37	3.51	-6.34	6.90	-7.59	8.38
213								-.002930	-7.74	1.73	-7.08	7.79	-10.17	8.38
214								-.002920	-4.94	2.77	-7.81	8.68	-12.31	7.64
215								-.002910	-3.10	5.35	-6.78	9.34	-10.47	7.94
216								-.002900	-5.01	4.54	-5.53	8.16	-9.21	7.42
217								-.002890	-5.46	3.95	-6.93	7.13	-10.17	5.72
218								-.002880	-5.38	4.25	-9.43	6.90	-11.72	5.35
219								-.002870	-6.05	5.13	-7.96	6.68	-11.64	6.98
220								-.002860	-7.67	3.51	-7.15	5.50	-10.91	7.57
221								-.002850	-5.82	3.65	-9.14	5.35	-10.61	7.20
222								-.002840	-3.69	3.88	-9.66	6.31	-10.17	6.61
223								-.002830	-2.95	4.39	-7.08	6.83	-9.58	6.90
224								-.002820	-4.50	2.92	-5.90	6.31	-10.02	7.79
225								-.002810	-4.50	2.55	-6.63	6.46	-10.83	8.45
226								-.002800	-4.13	3.14	-7.45	7.94	-12.23	7.20
227								-.002790	-2.95	5.43	-7.22	9.86	-12.23	5.28
228								-.002780	-3.47	5.72	-8.03	9.64	-11.72	5.13
229								-.002770	-4.06	4.32	-8.55	8.53	-10.10	7.27
230								-.002760	-5.31	2.25	-8.11	7.94	-9.07	8.38
231								-.002750	-4.72	2.92	-6.71	9.05	-8.33	8.53
232								-.002740	-5.46	3.36	-8.33	9.12	-9.14	8.09
233								-.002730	-6.71	3.21	-8.77	9.27	-9.73	8.68

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
175	-10.10	4.10	-6.63	1.88	-3.25	.55	-.003310	9.36	5.03	-7.64	5.65	-6.66	2.18	
176	-9.21	4.39	-4.43	2.77	-3.03	1.00	-.003300	9.87	5.33	-8.60	4.12	-5.55	2.72	
177	-11.57	2.62	-2.58	3.88	-2.88	-.26	-.003290	10.90	5.99	-8.92	3.33	-5.68	2.08	
178	-14.08	1.00	-4.43	3.06	-2.29	-1.07	-.003280	8.84	5.55	-8.87	4.22	-6.93	1.00	
179	-12.68	2.32	-4.28	3.36	-2.66	-1.81	-.003270	8.03	5.77	-8.60	5.35	-6.54	1.29	
180	-11.64	2.32	-4.57	2.62	-1.48	.26	-.003260	7.88	5.48	-9.04	5.28	-5.90	1.73	
181	-10.83	1.88	-3.61	2.32	-.96	1.07	-.003250	9.21	4.37	-8.21	5.08	-5.14	1.76	
182	-12.68	1.81	-4.28	1.88	-1.92	.85	-.003240	10.61	3.19	-7.45	4.22	-6.29	1.51	
183	-13.71	5.28	-4.13	3.51	-4.65	-1.07	-.003230	11.64	2.89	-6.44	4.42	-7.49	2.57	
184	-13.56	5.43	-4.50	3.06	-4.43	-.63	-.003220	10.68	4.66	-6.51	4.81	-7.49	2.62	
185	-10.47	4.61	-3.69	2.03	-5.01	-.19	-.003210	8.99	6.29	-6.68	5.11	-6.39	2.15	
186	-8.99	3.06	-3.39	.48	-5.01	1.22	-.003200	7.66	5.85	-7.76	4.61	-5.80	1.59	
187	-9.07	3.43	-3.98	-.04	-4.87	1.66	-.003190	9.28	5.99	-8.23	4.64	-5.97	1.68	
188	-11.35	3.43	-3.84	.55	-2.80	3.06	-.003180	7.74	4.74	-8.82	4.32	-6.00	2.35	
189	-12.09	4.02	-2.73	1.73	-2.29	3.21	-.003170	7.37	4.96	-8.77	4.05	-5.70	2.99	
190	-12.68	3.65	-5.16	1.00	-4.13	2.77	-.003160	7.59	4.15	-7.69	3.93	-7.32	2.47	
191	-11.20	3.65	-6.34	2.92	-7.08	.33	-.003150	10.53	4.81	-6.34	4.42	-8.21	2.30	
192	-10.47	2.69	-5.75	4.98	-6.19	.48	-.003140	12.60	4.07	-7.37	3.83	-7.47	2.72	
193	-10.91	1.88	-3.25	4.32	-3.54	1.73	-.003130	10.90	3.34	-8.26	4.02	-5.90	2.64	
194	-12.09	2.18	-3.10	.70	-2.51	1.81	-.003120	8.10	4.37	-7.37	5.50	-5.90	1.56	
195	-11.20	3.65	-3.10	.40	-4.13	-.19	-.003110	8.18	7.03	-6.54	6.29	-6.14	1.29	
196	-11.05	4.47	-4.57	1.44	-4.28	-.85	-.003100	10.31	7.77	-7.86	4.89	-6.63	1.68	
197	-12.01	3.36	-3.98	2.62	-4.65	-.63	-.003090	12.45	6.88	-8.28	4.20	-6.88	1.78	
198	-12.53	1.36	-4.06	1.22	-4.72	.40	-.003080	11.34	4.52	-7.45	5.06	-7.10	1.00	
199	-10.91	1.81	-4.20	1.22	-5.16	.18	-.003070	10.61	5.03	-6.61	5.65	-6.76	1.07	
200	-10.76	3.80	-5.09	1.22	-3.84	-.33	-.003060	9.87	4.96	-7.64	4.20	-6.56	1.56	
201	-11.13	4.54	-3.84	2.62	-3.10	-1.37	-.003050	9.36	6.88	-7.47	4.81	-6.02	1.93	
202	-11.13	3.14	-2.95	1.81	-2.58	.11	-.003040	9.43	8.28	-6.86	6.53	-5.55	1.68	
203	-9.88	3.58	-2.29	.85	-4.57	1.66	-.003030	10.61	6.73	-7.52	7.13	-5.58	2.03	
204	-10.17	5.13	-4.13	.11	-5.90	2.77	-.003020	11.20	3.93	-9.56	5.50	-6.73	2.67	
205	-10.10	6.90	-3.98	3.29	-6.12	1.22	-.003010	10.02	2.89	-9.07	5.13	-6.73	3.80	
206	-12.16	5.72	-4.20	5.13	-3.84	2.32	-.003000	7.96	3.04	-7.57	5.43	-6.73	4.39	
207	-12.90	4.10	-4.20	3.80	-4.79	3.36	-.002990	7.96	5.03	-7.20	6.26	-7.30	3.75	
208	-12.82	3.36	-4.57	-.19	-4.43	3.21	-.002980	6.78	4.07	-8.70	6.19	-7.27	2.13	
209	-10.47	5.21	-3.61	-1.22	-3.32	2.18	-.002970	8.40	3.63	-8.72	6.09	-5.80	2.05	
210	-10.61	4.39	-2.88	.33	-1.92	3.88	-.002960	8.69	2.89	-7.62	5.85	-5.14	2.87	
211	-11.42	2.92	-1.99	1.88	-3.98	3.95	-.002950	9.28	5.40	-6.14	6.26	-5.80	2.92	
212	-12.01	2.25	-2.95	1.81	-5.53	3.95	-.002940	8.25	7.10	-7.10	6.26	-6.83	2.67	
213	-11.50	3.73	-3.39	1.66	-5.46	3.21	-.002930	8.99	6.73	-8.33	5.97	-6.78	2.87	
214	-12.53	3.73	-3.98	1.44	-3.69	3.21	-.002920	9.50	5.18	-8.35	6.36	-6.73	2.79	
215	-12.68	4.32	-4.43	1.07	-2.58	3.73	-.002910	10.09	5.26	-6.78	7.54	-6.56	3.04	
216	-13.41	3.06	-7.00	.33	-1.99	4.02	-.002900	9.43	5.99	-6.59	6.71	-7.47	2.47	
217	-12.82	1.73	-6.56	1.44	-2.29	2.62	-.002890	10.02	6.73	-7.52	5.60	-7.22	1.93	
218	-12.38	1.00	-4.57	1.14	-2.14	1.96	-.002880	9.36	5.55	-8.84	5.50	-6.36	1.36	
219	-11.35	2.25	-2.80	1.36	-3.54	1.00	-.002870	10.31	5.92	-8.55	6.26	-5.90	1.54	
220	-11.20	3.43	-3.84	.55	-4.13	1.14	-.002860	9.43	6.14	-8.57	5.53	-6.39	1.71	
221	-10.91	3.58	-3.61	.40	-3.10	1.73	-.002850	9.72	7.03	-8.53	5.40	-5.87	1.91	
222	-11.87	2.92	-4.06	-1.37	-1.40	3.88	-.002840	10.68	7.25	-7.84	5.60	-5.78	1.81	
223	-12.23	3.36	-4.13	-1.52	-5.09	2.92	-.002830	11.64	7.32	-6.54	6.04	-7.15	1.59	
224	-12.23	3.51	-5.31	-1.00	-8.55	.85	-.002820	11.20	8.65	-6.81	5.67	-8.70	1.12	
225	-10.91	3.36	-4.13	.48	-7.15	.48	-.002810	8.69	8.80	-7.32	5.82	-7.40	1.44	
226	-10.69	1.73	-3.84	-.70	-2.29	3.36	-.002800	7.07	7.03	-7.94	6.09	-5.60	1.46	
227	-10.91	2.18	-3.17	-.70	-2.66	3.95	-.002790	8.40	6.29	-7.47	6.85	-5.58	1.81	
228	-11.79	3.80	-4.35	.18	-4.43	2.62	-.002780	9.95	6.58	-7.74	6.83	-6.86	2.20	
229	-11.50	4.39	-4.65	1.73	-4.20	-.48	-.002770	11.34	7.62	-7.57	6.71	-6.78	1.88	
230	-12.09	3.06	-5.16	1.36	-1.18	-2.18	-.002760	10.39	5.85	-7.49	6.19	-6.14	.75	
231	-12.23	2.84	-4.06	1.00	-2.22	-3.36	-.002750	10.02	5.99	-6.59	6.83	-6.17	.16	
232	-12.53	3.21	-5.16	-.48	-3.76	-1.07	-.002740	8.03	5.11	-7.64	6.85	-7.15	.55	
233	-12.09	3.06	-5.68	-.63	-4.57	1.59	-.002730	9.65	6.22	-8.40	7.05	-7.45	1.34	

	AC	AD	AE	AF	AG	AH
175	0.0017	-4.57237959	-10.31824493	-11.86520863	-11.57054901	-2.58342648
176	0.00171	-4.79337454	-10.90756512	-10.90756512	-14.07515717	-4.42504978
177	0.00172	-4.86703968	-11.64421368	-9.28693581	-12.67552376	-4.27771997
178	0.00173	-5.53002405	-12.82285309	-8.77128124	-11.64421368	-4.57237959
179	0.00174	-4.27771997	-10.90756512	-9.43426609	-10.8338995	-3.6147356
180	0.00175	-3.09908104	-8.91861153	-10.31824493	-12.67552376	-4.27771997
181	0.00176	-1.62578213	-7.88730192	-9.80259037	-13.70683289	-4.13039017
182	0.00177	-3.02541614	-7.51897764	-8.99227619	-13.5595026	-4.49871492
183	0.00178	-5.45635891	-6.56133318	-8.03463173	-10.46557522	-3.68840051
184	0.00179	-6.04567862	-7.22431755	-10.02358532	-8.99227619	-3.39374065
185	0.0018	-5.1616993	-8.99227619	-10.53923988	-9.06594086	-3.98306036
186	0.00181	-6.34033823	-9.50793076	-10.61290455	-11.34955406	-3.83573031
187	0.00182	-7.07698774	-8.91861153	-10.31824493	-12.08620358	-2.73075628
188	0.00183	-5.01436949	-7.00332308	-11.05489445	-12.67552376	-5.1616993
189	0.00184	-1.4047873	-6.85599279	-10.76023483	-11.20222473	-6.34033823
190	0.00185	-3.09908104	-8.69761658	-10.31824493	-10.46557522	-5.751019
191	0.00186	-5.60368919	-8.84494591	-10.31824493	-10.90756512	-3.24641085
192	0.00187	-5.23536444	-6.63499832	-10.24458027	-12.08620358	-3.09908104
193	0.00188	-2.43609643	-6.92965794	-10.24458027	-11.20222473	-3.09908104
194	0.00189	-3.4674058	-9.36060143	-10.76023483	-11.05489445	-4.57237959
195	0.0019	-4.79337454	-9.7289257	-10.31824493	-12.01253891	-3.98306036
196	0.00191	-5.60368919	-6.41400337	-10.31824493	-12.52819347	-4.05672503
197	0.00192	-4.64604473	-5.1616993	-10.02358532	-10.90756512	-4.20405531
198	0.00193	-4.57237959	-8.03463173	-10.31824493	-10.76023483	-5.08803463
199	0.00194	-3.32007575	-9.94992065	-9.13960648	-11.12855911	-3.83573031
200	0.00195	-3.83573031	-7.66630745	-9.06594086	-11.12855911	-2.95175099
201	0.00196	-5.45635891	-6.41400337	-10.68657017	-9.87625599	-2.28876662
202	0.00197	-7.59264231	-8.84494591	-12.23353386	-10.1709156	-4.13039017
203	0.00198	-6.63499832	-9.58159542	-10.98122978	-10.09724998	-3.98306036
204	0.00199	-4.94070435	-8.03463173	-9.7289257	-12.15986919	-4.20405531
205	0.002	-4.27771997	-6.70866299	-10.61290455	-12.89651775	-4.20405531
206	0.00201	-5.751019	-8.99227619	-11.34955406	-12.82285309	-4.57237959
207	0.00202	-5.01436949	-10.24458027	-10.90756512	-10.46557522	-3.6147356
208	0.00203	-3.83573031	-9.13960648	-9.87625599	-10.61290455	-2.87808609
209	0.00204	-4.27771997	-6.78232813	-7.37164736	-11.42321968	-1.99410689
210	0.00205	-7.37164736	-6.34033823	-7.59264231	-12.01253891	-2.95175099
211	0.00206	-7.73997211	-7.07698774	-10.1709156	-11.49688435	-3.39374065
212	0.00207	-4.94070435	-7.81363726	-12.30719852	-12.52819347	-3.98306036
213	0.00208	-3.09908104	-6.78232813	-10.46557522	-12.67552376	-4.42504978
214	0.00209	-5.01436949	-5.53002405	-9.21327114	-13.41217232	-7.00332308
215	0.0021	-5.45635891	-6.92965794	-10.1709156	-12.82285309	-6.56133318
216	0.00211	-5.38269424	-9.43426609	-11.7178793	-12.38086319	-4.57237959
217	0.00212	-6.04567862	-7.96096706	-11.64421368	-11.34955406	-2.80442119
218	0.00213	-7.66630745	-7.15065289	-10.90756512	-11.20222473	-3.83573031
219	0.00214	-5.82468367	-9.13960648	-10.61290455	-10.90756512	-3.6147356
220	0.00215	-3.68840051	-9.65526104	-10.1709156	-11.86520863	-4.05672503
221	0.00216	-2.95175099	-7.07698774	-9.58159542	-12.23353386	-4.13039017
222	0.00217	-4.49871492	-5.89834881	-10.02358532	-12.23353386	-5.3090291
223	0.00218	-4.49871492	-6.63499832	-10.8338995	-10.90756512	-4.13039017
224	0.00219	-4.13039017	-7.4453125	-12.23353386	-10.68657017	-3.83573031
225	0.0022	-2.95175099	-7.22431755	-12.23353386	-10.90756512	-3.17274594
226	0.00221	-3.4674058	-8.03463173	-11.7178793	-11.79154396	-4.35138512
227	0.00222	-4.05672503	-8.55028629	-10.09724998	-11.49688435	-4.64604473
228	0.00223	-5.3090291	-8.10829735	-9.06594086	-12.08620358	-5.1616993
229	0.00224	-4.71970987	-6.70866299	-8.32929134	-12.23353386	-4.05672503
230	0.00225	-5.45635891	-8.32929134	-9.13960648	-12.52819347	-5.1616993
231	0.00226	-6.70866299	-8.77128124	-9.7289257	-12.08620358	-5.67735386
232	0.00227	-6.41400337	-7.73997211	-10.1709156	-12.45452881	-4.64604473
233	0.00228	-3.09908104	-5.89834881	-10.53923988	-12.23353386	-2.28876662

	AI	AJ	AK	AL	AM	AN
175	-2.87808609	2.39874315	5.72221136	1.88175917	2.62030768	3.87583995
176	-2.28876662	2.62030768	7.12545347	2.9157269	0.99550092	3.06343675
177	-2.65709138	2.9157269	6.83003378	6.31305027	2.32488823	3.3588562
178	-1.47845232	2.32488823	6.01763058	7.49472761	2.32488823	2.62030768
179	-0.9627977	2.47259784	6.38690472	6.38690472	1.88175917	2.32488823
180	-1.92044199	1.21706545	6.0914855	5.35293722	1.80790424	1.88175917
181	-4.64604473	2.62030768	5.42679167	5.20522738	5.2790823	3.50656581
182	-4.42504978	3.65427542	5.79606628	4.98366261	5.42679167	3.06343675
183	-5.01436949	3.21114635	7.86400175	4.24511433	4.61438847	2.02946877
184	-5.01436949	2.02946877	7.86400175	3.94969487	3.06343675	0.478517
185	-4.86703968	2.9157269	5.57450151	5.42679167	3.43271089	-0.03846694
186	-2.80442119	3.21114635	4.09740448	5.64835644	3.43271089	0.55237186
187	-2.28876662	3.06343675	4.83595324	4.24511433	4.02354956	1.73404944
188	-4.13039017	1.66019464	6.75617933	3.3588562	3.65427542	0.99550092
189	-7.07698774	1.51248491	6.46075964	5.2790823	3.65427542	2.9157269
190	-6.19300842	1.29092038	4.39282417	5.79606628	2.69416237	4.98366261
191	-3.5410707	3.06343675	3.94969487	5.05751753	1.88175917	4.31896925
192	-2.50976157	3.58042073	6.68232441	6.23919535	2.17717862	0.70008153
193	-4.13039017	3.21114635	7.86400175	7.79014683	3.65427542	0.40466216
194	-4.27771997	0.84779125	7.79014683	6.01763058	4.46667862	1.43862998
195	-4.64604473	0.84779125	7.49472761	4.24511433	3.3588562	2.62030768
196	-4.71970987	2.62030768	8.52869511	4.02354956	1.36477518	1.21706545
197	-5.1616993	3.87583995	8.52869511	4.54053354	1.80790424	1.21706545
198	-3.83573031	2.02946877	7.49472761	3.06343675	3.80198526	1.21706545
199	-3.09908104	2.54645276	6.60846949	5.2790823	4.54053354	2.62030768
200	-2.58342648	4.76209831	6.53461456	8.30713081	3.13729167	1.80790424
201	-4.57237959	5.86992073	6.9038887	8.60255051	3.58042073	0.84779125
202	-5.89834881	3.50656581	7.27316332	5.72221136	5.13137245	0.10924275
203	-6.11934376	1.73404944	8.8241148	4.83595324	6.9038887	3.28500128
204	-3.83573031	2.02946877	8.67640495	5.57450151	5.72221136	5.13137245
205	-4.79337454	4.61438847	7.27316332	6.9038887	4.09740448	3.80198526
206	-4.42504978	5.05751753	6.31305027	7.1993084	3.3588562	-0.18617664
207	-3.32007575	3.80198526	8.8979702	5.57450151	5.20522738	-1.22014451
208	-1.92044199	3.3588562	9.63651848	4.54053354	4.39282417	0.3308073
209	-3.98306036	4.54053354	8.15942097	6.0914855	2.9157269	1.88175917
210	-5.53002405	3.50656581	6.9038887	8.38098621	2.25103331	1.80790424
211	-5.45635891	1.73404944	7.79014683	8.38098621	3.72813034	1.66019464
212	-3.68840051	2.76801729	8.67640495	7.64243746	3.72813034	1.43862998
213	-2.58342648	5.35293722	9.34109879	7.93785667	4.31896925	1.06935585
214	-1.99410689	4.54053354	8.15942097	7.42087269	3.06343675	0.3308073
215	-2.28876662	3.94969487	7.12545347	5.72221136	1.73404944	1.43862998
216	-2.14143682	4.24511433	6.9038887	5.35293722	0.99550092	1.14321065
217	-3.5410707	5.13137245	6.68232441	6.97774363	2.25103331	1.36477518
218	-4.13039017	3.50656581	5.50064659	7.56858253	3.43271089	0.55237186
219	-3.09908104	3.65427542	5.35293722	7.1993084	3.58042073	0.40466216
220	-1.4047873	3.87583995	6.31305027	6.60846949	2.9157269	-1.36785424
221	-5.08803463	4.39282417	6.83003378	6.9038887	3.3588562	-1.51556396
222	-8.55028629	2.9157269	6.31305027	7.79014683	3.50656581	-0.99857998
223	-7.15065289	2.54645276	6.46075964	8.45484066	3.3588562	0.478517
224	-2.28876662	3.13729167	7.93785667	7.1993084	1.73404944	-0.70316058
225	-2.65709138	5.42679167	9.85808277	5.2790823	2.17717862	-0.70316058
226	-4.42504978	5.72221136	9.63651848	5.13137245	3.80198526	0.1830976
227	-4.20405531	4.31896925	8.52869511	7.27316332	4.39282417	1.73404944
228	-1.18379247	2.25103331	7.93785667	8.38098621	3.06343675	1.36477518
229	-2.21510172	2.9157269	9.04567909	8.52869511	2.84187222	0.99550092
230	-3.76206541	3.3588562	9.11953449	8.08556652	3.21114635	-0.48159602
231	-4.57237959	3.21114635	9.26724434	8.67640495	3.06343675	-0.62930572
232	-3.83573031	2.1033237	9.04567909	9.71037292	1.58633971	-0.03846694
233	-4.13039017	2.9157269	9.19338894	10.00579262	2.54645276	1.88175917

	AO	AP	AQ	AR	AS	AT
175	-0.26003149	10.90275478	5.99414921	-8.91861153	-5.67735386	3.33423781
176	-1.07243478	8.84013653	5.55102015	-8.86950111	-6.92965794	4.22049618
177	-1.8109833	8.0298214	5.77258492	-8.59939671	-6.53677845	5.35293674
178	0.25695246	7.88249207	5.47716522	-9.04138565	-5.89834833	5.2790823
179	1.06935585	9.20846081	4.3693428	-8.20651722	-5.13714409	5.08213568
180	0.84779125	10.60809422	3.18766499	-7.4453125	-6.29122877	4.22049618
181	-1.07243478	11.6394043	2.89224553	-6.4385581	-7.49442244	4.41744232
182	-0.62930572	10.68175983	4.66476202	-6.51222324	-7.49442244	4.81133461
183	-0.18617664	8.98746586	6.28956842	-6.68410778	-6.38944817	5.1067543
184	1.21706545	7.66149712	5.84643936	-7.76452732	-5.80012894	4.61438847
185	1.66019464	9.28212547	5.99414921	-8.23107147	-5.97201347	4.63900661
186	3.06343675	7.73516178	4.73861694	-8.8203907	-5.99656868	4.31896925
187	3.21114635	7.36683702	4.96018124	-8.77128124	-5.70190907	4.04816818
188	2.76801729	7.58783197	4.14777803	-7.69086218	-7.3225379	3.92507672
189	0.3308073	10.53442955	4.81247187	-6.34033823	-8.20651722	4.41744232
190	0.478517	12.59704781	4.07392311	-7.37164736	-7.46986771	3.82660365
191	1.73404944	10.90275478	3.33537459	-8.25562668	-5.89834881	4.02354956
192	1.80790424	8.10348701	4.3693428	-7.37164783	-5.89834881	5.50064659
193	-0.18617664	8.17715168	7.02811718	-6.53677845	-6.14389849	6.28843164
194	-0.85087025	10.3134346	7.76666546	-7.86274719	-6.63499784	4.88518953
195	-0.62930572	12.44971848	6.88040733	-8.28018188	-6.880548	4.19587755
196	0.40466216	11.34474373	4.51705217	-7.4453125	-7.10154295	5.05751753
197	0.1830976	10.60809422	5.03403616	-6.61044312	-6.7577734	5.64835644
198	-0.33388633	9.87144566	4.96018124	-7.64175224	-6.56133318	4.19587755
199	-1.36785424	9.35579109	6.88040733	-7.46986771	-6.02112341	4.81133461
200	0.10924275	9.42945576	8.28364944	-6.85599279	-5.55457878	6.53461456
201	1.66019464	10.60809422	6.73269796	-7.51897764	-5.57913399	7.12545347
202	2.76801729	11.1974144	3.9262135	-9.55704117	-6.73321819	5.50064659
203	1.21706545	10.01877499	2.89224553	-9.06594086	-6.73321819	5.13137245
204	2.32488823	7.95615673	3.03995538	-7.5680871	-6.73321819	5.42679167
205	3.3588562	7.95615673	5.03403616	-7.19976234	-7.29798269	6.2638135
206	3.21114635	6.7775178	4.07392311	-8.69761658	-7.27342749	6.18995857
207	2.17717862	8.39814663	3.63079405	-8.72217178	-5.80012894	6.0914855
208	3.87583995	8.69280624	2.89224553	-7.61719751	-5.13714409	5.84530258
209	3.94969487	9.28212547	5.4033103	-6.14389849	-5.80012894	6.2638135
210	3.94969487	8.25081635	7.1019721	-7.10154247	-6.83143806	6.2638135
211	3.21114635	8.98746586	6.73269796	-8.3292923	-6.78232813	5.96839428
212	3.21114635	9.50312042	5.18174601	-8.35384655	-6.73321819	6.36228657
213	3.72813034	10.09243965	5.25560093	-6.78232813	-6.56133318	7.54396439
214	4.02354956	9.42945576	5.99414921	-6.58588839	-7.46986723	6.70694256
215	2.62030768	10.01877499	6.73269796	-7.51897764	-7.22431755	5.59912014
216	1.95561397	9.35579109	5.55102015	-8.84494686	-6.36489296	5.50064659
217	0.99550092	10.3134346	5.92029428	-8.55028629	-5.89834881	6.2638135
218	1.14321065	9.42945576	6.14185905	-8.5748415	-6.38944817	5.52526474
219	1.73404944	9.72411537	7.02811718	-8.52573204	-5.87379408	5.40217352
220	3.87583995	10.68175983	7.24968147	-7.83819246	-5.77557373	5.59912014
221	2.9157269	11.6394043	7.3235364	-6.53677797	-7.15065289	6.04224873
222	0.84779125	11.1974144	8.65292358	-6.80688286	-8.69761658	5.67297459
223	0.478517	8.69280624	8.80063343	-7.32253742	-7.39620256	5.82068443
224	3.3588562	7.07217741	7.02811718	-7.93641233	-5.60368919	6.0914855
225	3.94969487	8.39814663	6.28956842	-7.46986771	-5.57913399	6.8546524
226	2.62030768	9.94511032	6.58498812	-7.73997211	-6.85599279	6.83003426
227	-0.48159602	11.34474373	7.61895609	-7.5680871	-6.78232813	6.70694256
228	-2.18025756	10.38710022	5.84643936	-7.49442244	-6.14389849	6.18995857
229	-3.36193514	10.01877499	5.99414921	-6.58588791	-6.16845369	6.83003378
230	-1.07243478	8.0298214	5.10789108	-7.64175224	-7.15065289	6.8546524
231	1.58633971	9.65045071	6.21571398	-8.40295696	-7.4453125	7.05159855
232	2.69416237	11.41840935	5.4033103	-8.10829735	-6.97876787	6.953125
233	1.29092038	11.05008411	4.00006819	-6.51222324	-6.21756363	7.37163639

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200	1.6848129
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
234								-.002720	-6.41	2.10	-7.74	9.05	-10.17	9.71
235								-.002710	-3.10	2.92	-5.90	9.19	-10.54	10.01
236								-.002700	-4.06	3.21	-6.19	8.45	-10.61	10.15
237								-.002690	-6.63	4.25	-6.86	7.57	-10.69	11.11
238								-.002680	-7.37	3.36	-7.81	6.02	-11.50	10.67
239								-.002670	-4.35	2.47	-8.11	6.31	-11.79	9.27
240								-.002660	-3.84	2.32	-8.33	8.53	-12.23	7.94
241								-.002650	-4.94	4.54	-8.84	10.08	-12.16	7.86
242								-.002640	-4.43	5.21	-8.03	9.71	-11.79	8.23
243								-.002630	-2.66	3.21	-6.63	7.49	-11.28	7.94
244								-.002620	-4.06	1.59	-6.41	6.09	-10.83	7.64
245								-.002610	-6.19	3.95	-6.93	6.76	-10.69	7.13
246								-.002600	-6.41	6.24	-7.67	7.05	-10.54	6.90
247								-.002590	-4.28	5.43	-7.81	8.01	-11.05	6.39
248								-.002580	-3.84	1.88	-8.77	8.45	-11.05	5.65
249								-.002570	-5.60	.55	-8.26	8.68	-10.61	6.68
250								-.002560	-7.30	1.00	-6.71	7.64	-10.91	8.38
251								-.002550	-4.72	2.25	-5.24	8.23	-12.38	8.16
252								-.002540	-3.32	2.92	-6.78	8.90	-12.97	6.90
253								-.002530	-3.10	4.10	-9.43	8.16	-10.76	6.46
254								-.002520	-4.50	3.06	-11.35	5.35	-10.02	6.31
255								-.002510	-4.72	3.14	-9.73	5.50	-11.79	5.72
256								-.002500	-5.60	3.36	-7.59	7.49	-13.26	4.25
257								-.002490	-5.60	4.10	-7.37	7.86	-10.91	4.98
258								-.002480	-5.75	3.65	-8.99	6.02	-8.26	4.91
259								-.002470	-4.94	3.21	-8.33	5.50	-8.48	3.95
260								-.002460	-5.75	2.55	-8.11	4.98	-10.91	4.47
261								-.002450	-6.86	4.10	-7.96	5.35	-11.57	6.90
262								-.002440	-7.81	3.95	-8.55	6.68	-10.98	7.79
263								-.002430	-5.46	2.62	-8.33	8.53	-11.94	6.39
264								-.002420	-4.72	.11	-8.84	7.20	-12.68	5.13
265								-.002410	-4.72	-.56	-9.66	5.28	-11.87	5.57
266								-.002400	-6.12	-.04	-9.58	5.87	-11.20	6.31
267								-.002390	-6.78	1.73	-7.74	8.75	-10.61	5.87
268								-.002380	-5.75	3.73	-6.19	9.41	-9.88	5.72
269								-.002370	-3.98	4.76	-5.46	8.68	-9.36	5.43
270								-.002360	-3.84	3.06	-8.18	6.02	-9.43	4.02
271								-.002350	-4.50	1.81	-10.61	5.43	-9.80	1.73
272								-.002340	-5.60	1.36	-10.47	6.46	-10.10	2.84
273								-.002330	-5.46	2.32	-6.41	9.64	-11.20	6.61
274								-.002320	-4.87	2.69	-5.46	9.27	-12.68	8.16
275								-.002310	-2.80	3.95	-7.45	7.05	-12.53	6.09
276								-.002300	-3.84	4.84	-8.62	4.69	-10.91	4.54
277								-.002290	-6.41	4.10	-7.37	4.84	-8.48	5.94
278								-.002280	-6.93	2.32	-7.22	4.10	-7.96	6.24
279								-.002270	-4.65	3.06	-7.96	4.61	-9.73	4.47
280								-.002260	-3.61	4.69	-8.55	6.61	-12.23	2.47
281								-.002250	-4.72	4.54	-7.96	8.68	-11.64	3.21
282								-.002240	-5.46	3.14	-8.11	7.27	-10.17	4.54
283								-.002230	-4.94	3.06	-7.22	5.43	-9.73	4.47
284								-.002220	-5.46	2.18	-6.78	6.09	-10.02	2.25
285								-.002210	-4.65	3.36	-7.00	7.57	-8.84	1.36
286								-.002200	-4.50	4.02	-7.52	7.05	-8.70	4.25
287								-.002190	-4.65	2.77	-6.78	6.02	-11.13	5.87
288								-.002180	-5.90	.04	-6.34	6.02	-12.97	4.91
289								-.002170	-4.87	1.00	-6.49	6.98	-11.13	3.95
290								-.002160	-4.65	4.10	-6.63	7.20	-8.26	3.21
291								-.002150	-5.16	5.43	-6.63	6.76	-9.80	2.92
292								-.002140	-5.53	2.84	-8.26	5.50	-11.35	2.62

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
234	-12.45	1.59	-4.65	-.04	-3.84	2.69	-.002720	11.42	5.40	-8.11	6.95	-6.98	1.41	
235	-12.23	2.55	-2.29	1.88	-4.13	1.29	-.002710	11.05	4.00	-6.51	7.37	-6.22	1.91	
236	-12.45	3.80	-2.95	2.18	-3.76	.77	-.002700	8.99	3.41	-6.95	7.27	-6.39	2.25	
237	-11.42	4.61	-3.76	1.07	-3.98	.63	-.002690	8.25	4.59	-8.06	7.64	-6.39	2.10	
238	-11.57	3.29	-4.20	.04	-2.36	1.73	-.002680	7.66	4.52	-8.89	6.68	-6.05	1.68	
239	-12.23	1.88	-2.80	.55	-1.92	1.51	-.002670	8.18	3.63	-8.08	6.02	-5.65	1.32	
240	-13.04	.70	-2.22	1.00	-2.58	.92	-.002660	8.91	3.19	-8.13	6.26	-5.95	.87	
241	-11.28	2.18	-2.22	1.66	-4.43	.26	-.002650	11.42	5.18	-8.65	7.49	-5.97	1.36	
242	-9.73	3.14	-3.98	.70	-2.73	1.73	-.002640	10.76	6.58	-8.08	7.72	-5.48	1.86	
243	-10.32	2.25	-3.61	1.22	-2.07	1.66	-.002630	8.99	7.84	-6.86	6.21	-5.33	1.71	
244	-12.45	1.07	-3.25	.40	-2.95	1.36	-.002620	8.55	8.51	-7.10	5.11	-6.22	.95	
245	-10.98	2.25	-2.22	-.19	-4.43	1.22	-.002610	9.36	7.40	-7.94	5.94	-5.87	1.09	
246	-9.95	1.22	-3.10	-1.37	-2.44	1.36	-.002600	9.36	4.30	-8.21	6.73	-5.16	.40	
247	-11.42	-.78	-1.92	.40	-2.36	-.41	-.002590	9.72	3.70	-7.72	6.61	-5.24	-.26	
248	-13.78	-.33	-2.14	.48	-2.36	-.04	-.002580	10.02	7.03	-7.89	5.33	-6.09	.04	
249	-12.97	4.10	-1.99	.11	-4.35	.55	-.002570	11.05	11.61	-8.16	5.30	-6.44	1.59	
250	-11.20	3.65	-3.39	.11	-4.57	.63	-.002560	9.72	8.51	-8.30	5.67	-6.39	1.46	
251	-10.61	-.70	-3.32	2.40	-4.28	-1.44	-.002550	10.17	5.11	-7.45	6.21	-6.07	.08	
252	-12.60	-2.84	-4.28	1.44	-1.99	-.48	-.002540	8.84	4.22	-7.69	6.24	-6.29	-.63	
253	-12.60	1.29	-4.43	-.41	-2.07	1.44	-.002530	9.80	8.51	-7.76	6.24	-6.36	.77	
254	-13.26	3.73	-4.79	.11	-3.25	3.14	-.002520	9.43	8.95	-8.62	4.91	-7.10	2.32	
255	-13.04	2.69	-4.20	3.06	-4.94	1.14	-.002510	9.65	6.81	-8.75	4.79	-7.40	2.30	
256	-13.41	-.04	-3.54	2.55	-3.32	-.78	-.002500	7.66	5.70	-8.82	5.03	-6.76	.58	
257	-12.53	.63	-2.07	1.14	-1.92	-1.07	-.002490	6.48	7.10	-7.96	5.65	-5.51	.23	
258	-12.31	2.10	-3.10	.77	-1.18	-.19	-.002480	7.96	7.47	-7.67	4.86	-5.53	.90	
259	-10.61	3.14	-4.28	2.47	-2.44	-1.00	-.002470	10.31	6.51	-7.25	4.22	-5.78	1.54	
260	-11.20	1.59	-4.43	2.40	-3.54	-2.55	-.002460	8.99	4.37	-8.26	4.00	-6.39	.48	
261	-10.54	.92	-3.61	4.76	-4.06	-2.25	-.002450	8.55	4.81	-8.80	5.45	-6.07	1.14	
262	-9.95	.70	-5.31	4.69	-3.39	.04	-.002440	9.36	4.07	-9.12	6.14	-6.22	1.81	
263	-9.88	.92	-5.16	2.92	-3.47	.70	-.002430	12.45	5.33	-8.57	5.85	-6.17	1.51	
264	-12.53	-.26	-2.88	1.29	-3.17	.11	-.002420	11.93	5.99	-8.75	4.15	-6.19	.38	
265	-12.53	-.63	-.96	3.29	-2.51	-.78	-.002410	9.13	5.85	-8.75	3.43	-5.33	.63	
266	-11.42	.85	-4.43	3.88	-2.22	-.04	-.002400	6.92	5.26	-8.97	4.05	-6.02	1.56	
267	-12.01	1.22	-5.46	4.91	-3.54	1.00	-.002390	7.88	5.85	-8.38	5.45	-7.00	2.37	
268	-13.93	.40	-5.60	4.17	-2.66	1.51	-.002380	10.46	5.92	-7.27	6.29	-7.40	2.03	
269	-13.12	1.88	-6.05	3.80	-1.63	-.04	-.002370	10.90	6.14	-6.27	6.29	-6.93	1.88	
270	-11.79	4.10	-7.08	2.40	-1.26	-1.00	-.002360	7.66	4.37	-7.15	4.37	-6.71	1.83	
271	-12.09	3.14	-3.84	3.21	-3.91	-1.29	-.002350	8.03	5.26	-8.30	2.99	-6.61	1.68	
272	-13.19	.48	-2.22	2.55	-5.46	-.41	-.002340	8.32	5.62	-8.72	3.56	-6.95	.87	
273	-12.09	1.66	-2.80	2.77	-5.53	-1.07	-.002330	9.21	7.18	-7.69	6.19	-6.81	1.12	
274	-11.87	2.55	-4.28	2.47	-3.76	-.41	-.002320	7.81	6.58	-7.67	6.71	-6.63	1.54	
275	-10.98	2.69	-3.84	2.18	-3.54	-.92	-.002310	8.69	7.03	-7.59	5.70	-6.12	1.32	
276	-11.79	2.25	-3.25	2.62	-3.10	-.04	-.002300	10.09	6.66	-7.79	4.69	-6.05	1.61	
277	-11.42	3.21	-3.91	3.95	-2.73	-.63	-.002290	11.34	5.77	-7.42	4.96	-6.02	2.18	
278	-11.13	2.40	-6.56	3.73	-1.11	.26	-.002280	10.76	5.40	-7.37	4.22	-6.27	2.13	
279	-10.39	1.59	-8.40	2.92	-2.14	.40	-.002270	11.05	5.55	-7.45	4.05	-6.98	1.64	
280	-12.31	.33	-7.52	4.02	-2.95	1.88	-.002260	10.02	3.70	-8.13	4.59	-7.59	2.08	
281	-12.09	2.47	-5.60	6.53	-3.69	1.96	-.002250	9.28	2.97	-8.11	5.48	-7.13	3.65	
282	-10.83	5.06	-6.93	6.02	-3.47	1.73	-.002240	7.44	2.23	-7.91	4.98	-7.08	4.27	
283	-10.02	5.50	-7.37	5.06	-3.91	1.88	-.002230	8.25	4.52	-7.30	4.32	-7.10	4.15	
284	-12.90	1.73	-6.19	5.43	-3.32	2.99	-.002220	8.99	5.40	-7.42	3.51	-7.47	3.38	
285	-12.01	1.00	-5.53	6.46	-3.03	2.62	-.002210	11.05	6.14	-6.83	4.10	-6.86	3.36	
286	-10.02	3.14	-8.62	5.43	-2.80	2.77	-.002200	10.02	4.66	-6.91	5.11	-7.15	3.78	
287	-9.66	6.53	-8.26	6.53	-2.66	3.65	-.002190	8.40	3.48	-7.52	4.89	-6.86	5.57	
288	-12.90	5.87	-5.68	8.45	-2.80	4.98	-.002180	8.10	3.34	-8.40	3.65	-7.13	6.44	
289	-12.38	5.94	-3.76	10.08	-4.06	4.61	-.002170	10.24	5.55	-7.49	3.97	-6.73	6.88	
290	-10.61	5.94	-6.41	6.98	-2.51	4.98	-.002160	11.79	5.85	-6.51	4.84	-6.51	5.97	
291	-11.05	5.28	-7.81	5.57	-.89	5.43	-.002150	12.60	5.62	-7.20	5.03	-6.59	5.43	
292	-13.56	2.99	-6.93	5.72	-.74	5.50	-.002140	9.28	4.07	-8.38	3.65	-7.08	4.74	

	AC	AD	AE	AF	AG	AH
234	0.00229	-4.05672503	-6.19300842	-10.61290455	-12.45452881	-2.95175099
235	0.0023	-6.63499832	-6.85599279	-10.68657017	-11.42321968	-3.76206541
236	0.00231	-7.37164736	-7.81363726	-11.49688435	-11.57054901	-4.20405531
237	0.00232	-4.35138512	-8.10829735	-11.79154396	-12.23353386	-2.80442119
238	0.00233	-3.83573031	-8.32929134	-12.23353386	-13.04384804	-2.21510172
239	0.00234	-4.94070435	-8.84494591	-12.15986919	-11.2758894	-2.21510172
240	0.00235	-4.42504978	-8.03463173	-11.79154396	-9.7289257	-3.98306036
241	0.00236	-2.65709138	-6.63499832	-11.2758894	-10.31824493	-3.6147356
242	0.00237	-4.05672503	-6.41400337	-10.8338995	-12.45452881	-3.24641085
243	0.00238	-6.19300842	-6.92965794	-10.68657017	-10.98122978	-2.21510172
244	0.00239	-6.41400337	-7.66630745	-10.53923988	-9.94992065	-3.09908104
245	0.0024	-4.27771997	-7.81363726	-11.05489445	-11.42321968	-1.92044199
246	0.00241	-3.83573031	-8.77128124	-11.05489445	-13.78049755	-2.14143682
247	0.00242	-5.60368919	-8.25562668	-10.61290455	-12.97018337	-1.99410689
248	0.00243	-7.29798269	-6.70866299	-10.90756512	-11.20222473	-3.39374065
249	0.00244	-4.71970987	-5.23536444	-12.38086319	-10.61290455	-3.32007575
250	0.00245	-3.32007575	-6.78232813	-12.97018337	-12.60185814	-4.27771997
251	0.00246	-3.09908104	-9.43426609	-10.76023483	-12.60185814	-4.42504978
252	0.00247	-4.49871492	-11.34955406	-10.02358532	-13.26484299	-4.79337454
253	0.00248	-4.71970987	-9.7289257	-11.79154396	-13.04384804	-4.20405531
254	0.00249	-5.60368919	-7.59264231	-13.26484299	-13.41217232	-3.5410707
255	0.0025	-5.60368919	-7.37164736	-10.90756512	-12.52819347	-2.06777191
256	0.00251	-5.751019	-8.99227619	-8.25562668	-12.30719852	-3.09908104
257	0.00252	-4.94070435	-8.32929134	-8.47662163	-10.61290455	-4.27771997
258	0.00253	-5.751019	-8.10829735	-10.90756512	-11.20222473	-4.42504978
259	0.00254	-6.85599279	-7.96096706	-11.57054901	-10.53923988	-3.6147356
260	0.00255	-7.81363726	-8.55028629	-10.98122978	-9.94992065	-5.3090291
261	0.00256	-5.45635891	-8.32929134	-11.93887424	-9.87625599	-5.1616993
262	0.00257	-4.71970987	-8.84494591	-12.67552376	-12.52819347	-2.87808609
263	0.00258	-4.71970987	-9.65526104	-11.86520863	-12.52819347	-0.9627977
264	0.00259	-6.11934376	-9.58159542	-11.20222473	-11.42321968	-4.42504978
265	0.0026	-6.78232813	-7.73997211	-10.61290455	-12.01253891	-5.45635891
266	0.00261	-5.751019	-6.19300842	-9.87625599	-13.92782688	-5.60368919
267	0.00262	-3.98306036	-5.45635891	-9.36060143	-13.1175127	-6.04567862
268	0.00263	-3.83573031	-8.18196201	-9.43426609	-11.79154396	-7.07698774
269	0.00264	-4.49871492	-10.61290455	-9.80259037	-12.08620358	-3.83573031
270	0.00265	-5.60368919	-10.46557522	-10.09724998	-13.19117832	-2.21510172
271	0.00266	-5.45635891	-6.41400337	-11.20222473	-12.08620358	-2.80442119
272	0.00267	-4.86703968	-5.45635891	-12.67552376	-11.86520863	-4.27771997
273	0.00268	-2.80442119	-7.4453125	-12.52819347	-10.98122978	-3.83573031
274	0.00269	-3.83573031	-8.62395191	-10.90756512	-11.79154396	-3.24641085
275	0.0027	-6.41400337	-7.37164736	-8.47662163	-11.42321968	-3.90939546
276	0.00271	-6.92965794	-7.22431755	-7.96096706	-11.12655911	-6.56133318
277	0.00272	-4.64604473	-7.96096706	-9.7289257	-10.39191055	-8.40295696
278	0.00273	-3.6147356	-8.55028629	-12.23353386	-12.30719852	-7.51897764
279	0.00274	-4.71970987	-7.96096706	-11.64421368	-12.08620358	-5.60368919
280	0.00275	-5.45635891	-8.10829735	-10.1709156	-10.8338995	-6.92965794
281	0.00276	-4.94070435	-7.22431755	-9.7289257	-10.02358532	-7.37164736
282	0.00277	-5.45635891	-6.78232813	-10.02358532	-12.89651775	-6.19300842
283	0.00278	-4.64604473	-7.00332308	-8.84494591	-12.01253891	-5.53002405
284	0.00279	-4.49871492	-7.51897764	-8.69761658	-10.02358532	-8.62395191
285	0.0028	-4.64604473	-6.78232813	-11.12655911	-9.65526104	-8.25562668
286	0.00281	-5.89834881	-6.34033823	-12.97018337	-12.89651775	-5.67735386
287	0.00282	-4.86703968	-6.48766804	-11.12655911	-12.38086319	-3.76206541
288	0.00283	-4.64604473	-6.63499832	-8.25562668	-10.61290455	-6.41400337
289	0.00284	-5.1616993	-6.63499832	-9.80259037	-11.05489445	-7.81363726
290	0.00285	-5.53002405	-8.25562668	-11.34955406	-13.5595026	-6.92965794
291	0.00286	-3.39374065	-9.43426609	-10.1709156	-14.44348145	-3.02541614
292	0.00287	-3.24641085	-9.36060143	-9.80259037	-13.70683289	-2.14143682

	AI	AJ	AK	AL	AM	AN
234	-3.76206541	3.21114635	8.45484066	10.15350246	3.80198526	2.17717862
235	-3.98306036	4.24511433	7.56858253	11.11361504	4.61438847	1.06935585
236	-2.36243153	3.3588562	6.01763058	10.67048645	3.28500128	0.03538791
237	-1.92044199	2.47259784	6.31305027	9.26724434	1.88175917	0.55237186
238	-2.58342648	2.32488823	8.52869511	7.93785667	0.70008153	0.99550092
239	-4.42504978	4.54053354	10.07964706	7.86400175	2.17717862	1.66019464
240	-2.73075628	5.20522738	9.71037292	8.23327637	3.13729167	0.70008153
241	-2.06777191	3.21114635	7.49472761	7.93785667	2.25103331	1.21706545
242	-2.95175099	1.58633971	6.0914855	7.64243746	1.06935585	0.40466216
243	-4.42504978	3.94969487	6.75617933	7.12545347	2.25103331	-0.18617664
244	-2.43609643	6.23919535	7.05159855	6.9038887	1.21706545	-1.36785424
245	-2.36243153	5.42679167	8.01171112	6.38690472	-0.77701545	0.40466216
246	-2.36243153	1.88175917	8.45484066	5.64835644	-0.33388633	0.478517
247	-4.35138512	0.55237186	8.67640495	6.68232441	4.09740448	0.10924275
248	-4.57237959	0.99550092	7.64243746	8.38098621	3.65427542	0.10924275
249	-4.27771997	2.25103331	8.23327637	8.15942097	-0.70316058	2.39874315
250	-1.99410689	2.9157269	8.8979702	6.9038887	-2.84495115	1.43862998
251	-2.06777191	4.09740448	8.15942097	6.46075964	1.29092038	-0.40774119
252	-3.24641085	3.06343675	5.35293722	6.31305027	3.72813034	0.10924275
253	-4.94070435	3.13729167	5.50064659	5.72221136	2.69416237	3.06343675
254	-3.32007575	3.3588562	7.49472761	4.24511433	-0.03846694	2.54645276
255	-1.92044199	4.09740448	7.86400175	4.98366261	0.62622672	1.14321065
256	-1.18379247	3.65427542	6.01763058	4.90980816	2.1033237	0.77393639
257	-2.43609643	3.21114635	5.50064659	3.94969487	3.13729167	2.47259784
258	-3.5410707	2.54645276	4.98366261	4.46667862	1.58633971	2.39874315
259	-4.05672503	4.09740448	5.35293722	6.9038887	0.92164612	4.76209831
260	-3.39374065	3.94969487	6.68232441	7.79014683	0.70008153	4.68824339
261	-3.4674058	2.62030768	8.52869511	6.38690472	0.92164612	2.9157269
262	-3.17274594	0.10924275	7.1993084	5.13137245	-0.26003149	1.29092038
263	-2.50976157	-0.55545086	5.2790823	5.57450151	-0.62930572	3.28500128
264	-2.21510172	-0.03846694	5.86992073	6.31305027	0.84779125	3.87583995
265	-3.5410707	1.73404944	8.75026035	5.86992073	1.21706545	4.90980816
266	-2.65709138	3.72813034	9.41495323	5.72221136	0.40466216	4.1712594
267	-1.62578213	4.76209831	8.67640495	5.42679167	1.88175917	3.80198526
268	-1.25745749	3.06343675	6.01763058	4.02354956	4.09740448	2.39874315
269	-3.90939546	1.80790424	5.42679167	1.73404944	3.13729167	3.21114635
270	-5.45635891	1.36477518	6.46075964	2.84187222	0.478517	2.54645276
271	-5.53002405	2.32488823	9.63651848	6.60846949	1.66019464	2.76801729
272	-3.76206541	2.69416237	9.26724434	8.15942097	2.54645276	2.47259784
273	-3.5410707	3.94969487	7.05159855	6.0914855	2.69416237	2.17717862
274	-3.09908104	4.83595324	4.68824339	4.54053354	2.25103331	2.62030768
275	-2.73075628	4.09740448	4.83595324	5.94377565	3.21114635	3.94969487
276	-1.11012757	2.32488823	4.09740448	6.23919535	2.39874315	3.72813034
277	-2.14143682	3.06343675	4.61438847	4.46667862	1.58633971	2.9157269
278	-2.95175099	4.68824339	6.60846949	2.47259784	0.3308073	4.02354956
279	-3.68840051	4.54053354	8.67640495	3.21114635	2.47259784	6.53461456
280	-3.4674058	3.13729167	7.27316332	4.54053354	5.05751753	6.01763058
281	-3.90939546	3.06343675	5.42679167	4.46667862	5.50064659	5.05751753
282	-3.32007575	2.17717862	6.0914855	2.25103331	1.73404944	5.42679167
283	-3.02541614	3.3588562	7.56858253	1.36477518	0.99550092	6.46075964
284	-2.80442119	4.02354956	7.05159855	4.24511433	3.13729167	5.42679167
285	-2.65709138	2.76801729	6.01763058	5.86992073	6.53461456	6.53461456
286	-2.80442119	0.03538791	6.01763058	4.90980816	5.86992073	8.45484066
287	-4.05672503	0.99550092	6.97774363	3.94969487	5.94377565	10.07964706
288	-2.50976157	4.09740448	7.1993084	3.21114635	5.94377565	6.97774363
289	-0.88913274	5.42679167	6.75617933	2.9157269	5.2790823	5.57450151
290	-0.74180287	2.84187222	5.50064659	2.62030768	2.98958182	5.72221136
291	-4.94070435	0.10924275	4.68824339	3.50656581	2.39874315	8.38098621
292	-6.78232813	-0.62930572	4.24511433	4.02354956	3.3588562	8.23327637

	AO	AP	AQ	AR	AS	AT
234	0.77393639	8.98746586	3.40922952	-6.95421267	-6.38944817	7.27316332
235	0.62622672	8.25081635	4.5909071	-8.05918694	-6.38944864	7.64243746
236	1.73404944	7.66149712	4.51705217	-8.89405632	-6.04567862	6.68232441
237	1.51248491	8.17715168	3.63079405	-8.08374214	-5.65279913	6.01763058
238	0.92164612	8.91380119	3.18766499	-8.1328516	-5.94745874	6.2638135
239	0.25695246	11.41840935	5.18174601	-8.64850616	-5.97201347	7.49472761
240	1.73404944	10.7554245	6.58498812	-8.08374214	-5.48091412	7.71629238
241	1.66019464	8.98746586	7.84052038	-6.85599327	-5.33358431	6.21457672
242	1.36477518	8.54547596	8.50521374	-7.10154247	-6.21756363	5.1067543
243	1.21706545	9.35579109	7.39739132	-7.93641233	-5.8737936	5.94377613
244	1.36477518	9.35579109	4.29548788	-8.20651722	-5.1616993	6.73156071
245	-0.40774119	9.72411537	3.70464897	-7.71541739	-5.23536444	6.60846901
246	-0.03846694	10.01877499	7.02811718	-7.88730192	-6.09478855	5.3283186
247	0.55237186	11.05008411	11.60711765	-8.15740681	-6.43855858	5.30370045
248	0.62622672	9.72411537	8.50521374	-8.30473709	-6.38944817	5.67297506
249	-1.44170904	10.16610527	5.10789108	-7.4453125	-6.07023335	6.21457672
250	-0.48159602	8.84013653	4.22163296	-7.69086266	-6.29122829	6.23919535
251	1.43862998	9.79778004	8.50521374	-7.76452732	-6.36489344	6.23919487
252	3.13729167	9.42945576	8.94834328	-8.62395096	-7.10154295	4.90980816
253	1.14321065	9.65045071	6.80655241	-8.74672699	-7.39620256	4.78671646
254	-0.77701545	7.66149712	5.69872999	-8.82039165	-6.75777292	5.03289938
255	-1.07243478	6.48285818	7.1019721	-7.96096706	-5.50546932	5.64835644
256	-0.18617664	7.95615673	7.47124624	-7.66630745	-5.53002405	4.86057138
257	-0.99857998	10.3134346	6.51113319	-7.24887228	-5.77557373	4.22049618
258	-2.5495317	8.98746586	4.3693428	-8.25562668	-6.38944817	3.99893141
259	-2.25411248	8.54547596	4.81247187	-8.79583645	-6.07023335	5.45141029
260	0.03538791	9.35579109	4.07392311	-9.11505127	-6.21756363	6.14072227
261	0.70008153	12.44971848	5.32945538	-8.5748415	-6.16845369	5.84530258
262	0.10924275	11.93406391	5.99414921	-8.74672699	-6.19300842	4.14664125
263	-0.77701545	9.13479614	5.84643936	-8.74672699	-5.33358431	3.43271089
264	-0.03846694	6.9248476	5.25560093	-8.96772099	-6.02112389	4.04816818
265	0.99550092	7.88249207	5.84643936	-8.37840176	-7.0033226	5.45141029
266	1.51248491	10.46076488	5.92029428	-7.27342796	-7.39620256	6.28843164
267	-0.03846694	10.90275478	6.14185905	-6.26667356	-6.92965794	6.28843164
268	-0.99857998	7.66149712	4.3693428	-7.15065289	-6.70866299	4.36820555
269	-1.29399931	8.0298214	5.25560093	-8.30473709	-6.61044312	2.98958182
270	-0.40774119	8.32448196	5.62487507	-8.72217178	-6.95421314	3.55580235
271	-1.07243478	9.20846081	7.17582703	-7.69086218	-6.80688286	6.18995857
272	-0.40774119	7.80882692	6.58498812	-7.66630745	-6.63499784	6.70694256
273	-0.92472512	8.69280624	7.02811718	-7.59264231	-6.11934376	5.69759274
274	-0.03846694	10.09243965	6.65884304	-7.78908253	-6.04567862	4.68824339
275	-0.62930572	11.34474373	5.77258492	-7.42075729	-6.02112389	4.95904446
276	0.25695246	10.7554245	5.4033103	-7.37164736	-6.26667309	4.22049618
277	0.40466216	11.05008411	5.55102015	-7.4453125	-6.97876835	4.04816818
278	1.88175917	10.01877499	3.70464897	-8.1328516	-7.59264231	4.58977032
279	1.95561397	9.28212547	2.96610045	-8.10829735	-7.12609768	5.47602844
280	1.73404944	7.44050217	2.22755194	-7.91185713	-7.07698774	4.98366261
281	1.88175917	8.25081635	4.51705217	-7.29798269	-7.10154247	4.31896877
282	2.98958182	8.98746586	5.4033103	-7.42075729	-7.46986723	3.50656581
283	2.62030768	11.05008411	6.14185905	-6.83143806	-6.85599327	4.09740448
284	2.76801729	10.01877499	4.66476202	-6.90510321	-7.15065289	5.1067543
285	3.65427542	8.39814663	3.48308444	-7.51897717	-6.85599327	4.88518953
286	4.98366261	8.10348701	3.33537459	-8.40295696	-7.12609768	3.65427566
287	4.61438847	10.23976994	5.55102015	-7.49442244	-6.73321772	3.97431326
288	4.98366261	11.78673363	5.84643936	-6.51222324	-6.51222324	4.83595324
289	5.42679167	12.59704781	5.62487507	-7.19976282	-6.58588791	5.03289938
290	5.50064659	9.28212547	4.07392311	-8.37840176	-7.07698774	3.65427542
291	2.76801729	9.20846081	5.4033103	-7.66630745	-7.46986723	2.76801729
292	2.32488823	9.20846081	4.73861694	-7.46986771	-7.54353237	2.54645276

	AU
234	2.25103331
235	2.1033237
236	1.6848129
237	1.31553864
238	0.87240952
239	1.36477518
240	1.8571409
241	1.70943117
242	0.94626439
243	1.09397399
244	0.40466213
245	-0.26003149
246	0.03538791
247	1.58633971
248	1.46324825
249	0.08462451
250	-0.62930572
251	0.77393639
252	2.32488823
253	2.30026984
254	0.57699013
255	0.2323342
256	0.89702779
257	1.53710318
258	0.47851706
259	1.14321065
260	1.80790424
261	1.51248479
262	0.38004386
263	0.62622672
264	1.56172144
265	2.37412477
266	2.02946877
267	1.88175917
268	1.83252251
269	1.6848129
270	0.87240952
271	1.11859238
272	1.53710318
273	1.31553864
274	1.61095798
275	2.17717838
276	2.12794209
277	1.63557625
278	2.07870531
279	3.65427542
280	4.26973248
281	4.14664125
282	3.38347435
283	3.3588562
284	3.77736688
285	5.57450151
286	6.43614149
287	6.87927055
288	5.9683938
289	5.42679167
290	4.73748016
291	4.51591539
292	4.63900709

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
293								-.002130	-3.39	.11	-9.43	4.69	-10.17	3.51
294								-.002120	-3.25	-.63	-9.36	4.25	-9.80	4.02
295								-.002110	-5.38	2.32	-7.81	4.91	-12.23	4.02
296								-.002100	-7.22	5.72	-7.37	4.25	-13.41	4.02
297								-.002090	-6.19	6.31	-6.93	4.32	-11.28	5.50
298								-.002080	-5.90	3.29	-7.52	4.25	-10.91	4.76
299								-.002070	-6.19	2.03	-8.84	5.94	-11.50	3.65
300								-.002060	-6.63	3.14	-10.39	6.90	-11.42	4.61
301								-.002050	-5.75	4.69	-9.07	8.01	-11.35	6.31
302								-.002040	-5.60	5.28	-7.67	7.35	-10.61	6.98
303								-.002030	-5.31	4.84	-6.27	7.13	-9.88	7.05
304								-.002020	-5.16	4.54	-6.49	5.57	-10.54	6.90
305								-.002010	-3.98	5.87	-6.63	5.80	-10.83	7.13
306								-.002000	-4.65	6.31	-7.52	6.90	-10.02	6.31
307								-.001990	-6.34	4.98	-8.70	7.72	-8.92	5.13
308								-.001980	-6.93	2.84	-9.95	8.68	-10.91	3.29
309								-.001970	-5.01	3.80	-8.55	10.45	-12.97	3.80
310								-.001960	-6.19	5.50	-8.55	8.23	-11.87	6.31
311								-.001950	-8.70	6.09	-11.42	5.35	-9.36	7.94
312								-.001940	-8.77	5.35	-14.37	4.39	-11.05	6.02
313								-.001930	-5.38	6.31	-12.53	7.35	-12.68	4.84
314								-.001920	-4.72	6.31	-8.99	8.38	-11.64	5.13
315								-.001910	-5.24	6.24	-7.52	7.64	-10.47	3.65
316								-.001900	-5.60	5.28	-8.18	7.49	-10.10	2.69
317								-.001890	-5.01	6.17	-7.81	9.05	-10.91	5.28
318								-.001880	-5.75	6.68	-6.34	10.89	-11.20	8.09
319								-.001870	-4.87	7.86	-5.24	11.34	-10.91	7.27
320								-.001860	-3.84	6.31	-7.30	8.75	-11.72	4.10
321								-.001850	-4.28	4.39	-8.55	7.13	-12.68	5.65
322								-.001840	-6.63	3.95	-10.02	7.20	-12.60	9.64
323								-.001830	-7.22	6.24	-9.66	9.71	-11.35	10.60
324								-.001820	-7.30	6.76	-9.51	9.41	-10.61	9.34
325								-.001810	-6.34	5.28	-8.99	9.19	-12.09	9.71
326								-.001800	-6.05	5.72	-7.59	10.67	-11.87	12.07
327								-.001790	-6.41	8.53	-6.49	12.44	-10.54	14.29
328								-.001780	-8.84	7.86	-8.55	10.60	-10.61	13.62
329								-.001770	-9.36	6.90	-9.43	10.23	-12.53	11.41
330								-.001760	-9.51	7.05	-9.07	12.30	-13.12	11.19
331								-.001750	-8.55	7.72	-8.26	14.51	-12.23	13.11
332								-.001740	-9.43	5.87	-9.43	13.18	-11.79	12.81
333								-.001730	-7.81	6.61	-9.43	12.15	-11.50	11.04
334								-.001720	-5.75	7.57	-9.36	12.89	-10.17	11.26
335								-.001710	-4.57	7.79	-8.77	13.85	-9.73	14.29
336								-.001700	-5.90	6.90	-8.84	11.48	-12.53	15.18
337								-.001690	-5.68	7.79	-7.74	11.26	-15.03	13.11
338								-.001680	-5.82	7.64	-7.08	12.37	-13.49	10.52
339								-.001670	-6.34	6.76	-7.45	12.37	-11.64	10.08
340								-.001660	-7.96	6.17	-8.55	10.74	-12.31	12.07
341								-.001650	-6.71	8.53	-8.18	12.37	-12.38	14.29
342								-.001640	-4.72	9.93	-7.96	14.58	-11.50	14.44
343								-.001630	-4.50	9.05	-7.52	14.58	-12.97	12.52
344								-.001620	-7.00	6.76	-8.48	12.59	-15.70	10.45
345								-.001610	-7.30	6.39	-8.33	13.33	-13.71	11.04
346								-.001600	-5.68	6.02	-9.73	13.77	-10.10	11.70
347								-.001590	-3.98	6.24	-10.39	12.52	-9.58	11.34
348								-.001580	-6.78	4.84	-10.39	9.78	-12.45	10.15
349								-.001570	-9.07	5.13	-8.70	10.30	-12.68	10.74
350								-.001560	-7.67	6.39	-7.22	12.59	-10.61	11.63
351								-.001550	-3.98	7.94	-7.08	12.81	-8.77	11.41

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
293	-14.44	2.40	-3.03	8.38	-4.94	2.77	-.002130	9.21	5.40	-7.67	2.77	-7.47	4.52	
294	-13.71	3.36	-2.14	8.23	-6.78	2.32	-.002120	9.21	4.74	-7.47	2.55	-7.54	4.64	
295	-12.31	5.13	-3.03	8.31	-6.05	2.69	-.002110	10.61	5.40	-8.48	3.75	-7.13	5.38	
296	-12.97	5.57	-5.75	7.94	-1.85	4.54	-.002100	9.87	4.59	-9.34	4.66	-6.86	6.02	
297	-12.68	5.57	-6.12	8.23	-1.70	4.17	-.002090	10.17	3.93	-8.13	5.38	-6.83	5.99	
298	-11.94	4.17	-5.90	6.61	-3.69	2.10	-.002080	10.17	2.60	-8.11	4.10	-7.18	4.29	
299	-9.14	4.61	-5.90	6.46	-6.12	-.70	-.002070	10.98	3.93	-8.84	3.88	-7.05	3.46	
300	-11.20	4.17	-5.82	7.94	-2.95	1.00	-.002060	10.83	4.81	-9.48	4.89	-6.66	4.37	
301	-13.49	5.06	-5.46	7.79	-1.33	3.65	-.002050	10.68	4.22	-8.72	6.34	-6.76	5.50	
302	-13.12	6.61	-5.97	4.91	-2.66	6.46	-.002040	8.99	2.30	-7.96	6.53	-7.25	5.99	
303	-9.73	7.64	-4.87	3.95	-5.90	7.20	-.002030	10.39	3.56	-7.15	6.34	-6.83	6.26	
304	-10.17	5.87	-4.06	4.84	-5.46	6.90	-.002020	9.87	5.26	-7.40	5.67	-6.56	5.87	
305	-12.45	6.76	-4.50	7.05	-5.01	3.73	-.002010	7.66	6.44	-7.15	6.26	-7.32	5.85	
306	-13.71	7.57	-6.56	6.17	-6.34	2.92	-.002000	6.19	4.74	-7.40	6.51	-8.87	5.55	
307	-13.41	6.90	-5.90	4.02	-7.81	5.06	-.001990	7.29	3.63	-7.99	5.94	-9.04	5.33	
308	-14.66	4.10	-4.13	2.92	-6.78	6.31	-.001980	8.99	3.93	-9.26	4.93	-8.53	4.44	
309	-14.15	4.98	-1.70	6.17	-5.38	5.43	-.001970	8.55	4.30	-8.84	6.02	-7.08	5.53	
310	-14.08	6.90	-4.28	7.05	-4.43	6.24	-.001960	8.62	3.04	-8.87	6.68	-7.59	6.73	
311	-14.44	7.57	-6.93	6.39	-6.05	7.27	-.001950	10.90	2.97	-9.83	6.46	-9.14	7.08	
312	-15.62	6.68	-7.45	6.46	-5.82	7.27	-.001940	11.34	3.04	-11.40	5.25	-9.63	6.81	
313	-14.81	7.57	-4.43	7.79	-5.38	4.84	-.001930	11.42	5.33	-10.20	6.17	-8.21	6.73	
314	-14.52	7.49	-3.98	4.32	-4.65	3.80	-.001920	8.77	5.55	-8.45	6.61	-7.72	5.21	
315	-13.56	7.94	-3.25	1.73	-7.08	4.25	-.001910	8.25	6.29	-7.74	5.85	-7.96	4.64	
316	-14.15	8.16	-3.84	2.47	-6.63	7.64	-.001900	8.10	5.11	-7.96	5.16	-8.21	6.09	
317	-13.71	8.90	-3.54	4.54	-5.16	9.19	-.001890	9.58	3.93	-7.91	6.83	-7.47	7.54	
318	-12.82	7.94	-5.09	3.36	-4.72	8.97	-.001880	9.87	3.26	-7.76	8.55	-7.54	6.76	
319	-10.10	8.53	-5.38	4.02	-7.59	6.68	-.001870	10.02	4.07	-7.00	8.82	-7.69	6.41	
320	-11.05	8.45	-8.26	4.10	-6.19	7.42	-.001860	9.13	4.30	-7.62	6.39	-8.50	6.66	
321	-12.68	8.53	-8.84	4.25	-5.01	6.39	-.001850	9.43	4.81	-8.50	5.72	-8.84	6.39	
322	-13.19	7.94	-6.12	2.99	-5.60	5.72	-.001840	7.96	4.22	-9.75	6.93	-8.30	5.55	
323	-10.76	8.53	-2.22	3.80	-8.18	6.17	-.001830	7.96	5.11	-9.41	8.85	-7.05	6.17	
324	-11.35	7.64	-2.36	5.28	-7.08	9.56	-.001820	6.92	4.66	-9.14	8.50	-6.93	7.49	
325	-12.60	6.46	-4.50	6.68	-6.19	9.27	-.001810	8.84	5.55	-9.14	8.06	-7.76	7.47	
326	-12.68	7.20	-7.15	6.76	-5.46	7.57	-.001800	8.55	6.14	-8.50	9.49	-8.43	7.17	
327	-10.54	10.08	-7.37	6.09	-5.31	6.61	-.001790	7.66	5.77	-7.81	11.75	-7.74	7.59	
328	-11.20	10.52	-5.82	3.14	-5.24	7.64	-.001780	7.81	4.89	-9.34	10.70	-7.42	7.10	
329	-11.72	8.82	-2.07	2.32	-5.68	7.64	-.001770	9.13	4.74	-10.44	9.51	-6.49	6.26	
330	-12.45	6.83	-2.88	1.81	-5.60	6.46	-.001760	9.58	5.26	-10.56	10.18	-6.98	5.03	
331	-12.31	6.46	-5.46	2.55	-5.46	4.39	-.001750	8.32	5.40	-9.68	11.78	-7.74	4.47	
332	-11.79	6.39	-7.45	3.36	-4.20	5.94	-.001740	6.41	4.89	-10.22	10.62	-7.81	5.23	
333	-9.21	6.83	-4.50	5.57	-3.76	7.20	-.001730	7.00	5.92	-9.58	9.93	-5.82	6.53	
334	-9.88	5.43	-4.06	4.17	-4.50	5.35	-.001720	7.22	6.14	-8.43	10.57	-6.14	4.98	
335	-10.76	5.57	-3.61	2.47	-6.56	.48	-.001710	8.25	7.40	-7.69	11.98	-6.98	2.84	
336	-11.87	5.35	-4.20	1.22	-4.28	1.14	-.001700	7.96	7.69	-9.09	11.19	-6.78	2.57	
337	-11.35	5.28	-3.39	1.88	-2.44	3.88	-.001690	9.13	9.10	-9.48	10.72	-5.73	3.68	
338	-13.71	4.25	-4.72	1.00	-3.10	4.98	-.001680	10.17	9.17	-8.80	10.18	-7.18	3.41	
339	-13.71	6.90	-3.54	1.96	-5.46	2.18	-.001670	11.27	9.24	-8.48	9.73	-7.57	3.68	
340	-13.12	8.75	-2.29	1.59	-5.31	1.29	-.001660	11.05	8.65	-9.61	9.66	-6.91	3.88	
341	-12.97	7.86	-1.33	1.29	-5.09	1.29	-.001650	10.61	8.95	-9.09	11.73	-6.46	3.48	
342	-14.00	6.61	-3.54	1.51	-3.47	2.62	-.001640	7.66	8.87	-8.06	12.98	-7.00	3.58	
343	-12.16	9.86	-5.38	3.43	-4.20	1.29	-.001630	6.92	9.39	-8.33	12.05	-7.25	4.86	
344	-10.39	9.12	-5.82	2.69	-2.36	1.29	-.001620	6.92	7.91	-10.39	9.93	-6.19	4.37	
345	-9.43	6.31	-3.54	1.66	-1.99	1.44	-.001610	8.25	8.65	-9.78	10.25	-4.99	3.14	
346	-10.91	6.02	-3.03	1.22	-1.48	3.29	-.001600	7.07	9.10	-8.50	10.50	-5.14	3.51	
347	-13.26	8.68	-4.57	1.59	-4.28	2.92	-.001590	7.81	11.02	-7.99	10.03	-7.37	4.39	
348	-14.74	7.94	-5.60	.85	-5.31	4.10	-.001580	10.76	11.46	-9.88	8.26	-8.55	4.29	
349	-11.72	5.87	-3.69	.40	-4.87	7.13	-.001570	11.71	9.98	-10.15	8.73	-6.76	4.47	
350	-10.02	4.91	-1.48	-.19	-4.43	8.90	-.001560	10.68	9.83	-8.50	10.20	-5.31	4.54	
351	-10.32	6.90	-1.70	.11	-5.97	7.35	-.001550	10.02	11.83	-6.61	10.72	-6.00	4.79	

	AC	AD	AE	AF	AG	AH
293	0.00288	-5.38269424	-7.81363726	-12.23353386	-12.30719852	-3.02541614
294	0.00289	-7.22431755	-7.37164736	-13.41217232	-12.97018337	-5.751019
295	0.0029	-6.19300842	-6.92965794	-11.2758894	-12.67552376	-6.11934376
296	0.00291	-5.89834881	-7.51897764	-10.90756512	-11.93887424	-5.89834881
297	0.00292	-6.19300842	-8.84494591	-11.49688435	-9.13960648	-5.89834881
298	0.00293	-6.63499832	-10.39191055	-11.42321968	-11.20222473	-5.82468367
299	0.00294	-5.751019	-9.06594086	-11.34955406	-13.48583794	-5.45635891
300	0.00295	-5.60368919	-7.66630745	-10.61290455	-13.1175127	-5.97201347
301	0.00296	-5.3090291	-6.26667356	-9.87625599	-9.7289257	-4.86703968
302	0.00297	-5.1616993	-6.48766804	-10.53923988	-10.1709156	-4.05672503
303	0.00298	-3.98306036	-6.63499832	-10.8338995	-12.45452881	-4.49871492
304	0.00299	-4.64604473	-7.51897764	-10.02358532	-13.70683289	-6.56133318
305	0.003	-6.34033823	-8.69761658	-8.91861153	-13.41217232	-5.89834881
306	0.00301	-6.92965794	-9.94992065	-10.90756512	-14.66447639	-4.13039017
307	0.00302	-5.01436949	-8.55028629	-12.97018337	-14.14882183	-1.69944715
308	0.00303	-6.19300842	-8.55028629	-11.86520863	-14.07515717	-4.27771997
309	0.00304	-8.69761658	-11.42321968	-9.36060143	-14.44348145	-6.92965794
310	0.00305	-8.77128124	-14.36981678	-11.05489445	-15.62212086	-7.4453125
311	0.00306	-5.38269424	-12.52819347	-12.67552376	-14.81180668	-4.42504978
312	0.00307	-4.71970987	-8.99227619	-11.64421368	-14.51714706	-3.98306036
313	0.00308	-5.23536444	-7.51897764	-10.46557522	-13.5595026	-3.24641085
314	0.00309	-5.60368919	-8.18196201	-10.09724998	-14.14882183	-3.83573031
315	0.0031	-5.01436949	-7.81363726	-10.90756512	-13.70683289	-3.5410707
316	0.00311	-5.751019	-6.34033823	-11.20222473	-12.82285309	-5.08803463
317	0.00312	-4.86703968	-5.23536444	-10.90756512	-10.09724998	-5.38269424
318	0.00313	-3.83573031	-7.29798269	-11.7178793	-11.05489445	-8.25562668
319	0.00314	-4.27771997	-8.55028629	-12.67552376	-12.67552376	-8.84494591
320	0.00315	-6.63499832	-10.02358532	-12.60185814	-13.19117832	-6.11934376
321	0.00316	-7.22431755	-9.65526104	-11.34955406	-10.76023483	-2.21510172
322	0.00317	-7.29798269	-9.50793076	-10.61290455	-11.34955406	-2.36243153
323	0.00318	-6.34033823	-8.99227619	-12.08620358	-12.60185814	-4.49871492
324	0.00319	-6.04567862	-7.59264231	-11.86520863	-12.67552376	-7.15065289
325	0.0032	-6.41400337	-6.48766804	-10.53923988	-10.53923988	-7.37164736
326	0.00321	-8.84494591	-8.55028629	-10.61290455	-11.20222473	-5.82468367
327	0.00322	-9.36060143	-9.43426609	-12.52819347	-11.7178793	-2.06777191
328	0.00323	-9.50793076	-9.06594086	-13.1175127	-12.45452881	-2.87808609
329	0.00324	-8.55028629	-8.25562668	-12.23353386	-12.30719852	-5.45635891
330	0.00325	-9.43426609	-9.43426609	-11.79154396	-11.79154396	-7.4453125
331	0.00326	-7.81363726	-9.43426609	-11.49688435	-9.21327114	-4.49871492
332	0.00327	-5.751019	-9.36060143	-10.1709156	-9.87625599	-4.05672503
333	0.00328	-4.57237959	-8.77128124	-9.7289257	-10.76023483	-3.6147356
334	0.00329	-5.89834881	-8.84494591	-12.52819347	-11.86520863	-4.20405531
335	0.0033	-5.67735386	-7.73997211	-15.03280163	-11.34955406	-3.39374065
336	0.00331	-5.82468367	-7.07698774	-13.48583794	-13.70683289	-4.71970987
337	0.00332	-6.34033823	-7.4453125	-11.64421368	-13.70683289	-3.5410707
338	0.00333	-7.96096706	-8.55028629	-12.30719852	-13.1175127	-2.28876662
339	0.00334	-6.70866299	-8.18196201	-12.38086319	-12.97018337	-1.3311224
340	0.00335	-4.71970987	-7.96096706	-11.49688435	-14.0014925	-3.5410707
341	0.00336	-4.49871492	-7.51897764	-12.97018337	-12.15986919	-5.38269424
342	0.00337	-7.00332308	-8.47662163	-15.69578552	-10.39191055	-5.82468367
343	0.00338	-7.29798269	-8.32929134	-13.70683289	-9.43426609	-3.5410707
344	0.00339	-5.67735386	-9.7289257	-10.09724998	-10.90756512	-3.02541614
345	0.0034	-3.98306036	-10.39191055	-9.58159542	-13.26484299	-4.57237959
346	0.00341	-6.78232813	-10.39191055	-12.45452881	-14.73814201	-5.60368919
347	0.00342	-9.06594086	-8.69761658	-12.67552376	-11.7178793	-3.68640051
348	0.00343	-7.66630745	-7.22431755	-10.61290455	-10.02358532	-1.47845232
349	0.00344	-3.98306036	-7.07698774	-8.77128124	-10.31824493	-1.69944715
350	0.00345	-4.57237959	-8.84494591	-9.43426609	-13.5595026	-3.98306036
351	0.00346	-6.11934376	-8.69761658	-10.31824493	-14.22248745	-4.71970987

	AI	AJ	AK	AL	AM	AN
293	-6.04567862	2.32488823	4.90980816	4.02354956	5.13137245	8.30713081
294	-1.84677696	5.72221136	4.24511433	4.02354956	5.57450151	7.93785667
295	-1.69944715	6.31305027	4.31896925	5.50064659	5.57450151	8.23327637
296	-3.68840051	3.28500128	4.24511433	4.76209831	4.1712594	6.60846949
297	-6.11934376	2.02946877	5.94377565	3.65427542	4.61438847	6.46075964
298	-2.95175099	3.13729167	6.9038887	4.61438847	4.1712594	7.93785667
299	-1.3311224	4.68824339	8.01171112	6.31305027	5.05751753	7.79014683
300	-2.65709138	5.2790823	7.34701777	6.97774363	6.60846949	4.90980816
301	-5.89834881	4.83595324	7.12545347	7.05159855	7.64243746	3.94969487
302	-5.45635891	4.54053354	5.57450151	6.9038887	5.86992073	4.83595324
303	-5.01436949	5.86992073	5.79606628	7.12545347	6.75617933	7.05159855
304	-6.34033823	6.31305027	6.9038887	6.31305027	7.56858253	6.16534042
305	-7.81363726	4.98366261	7.71629238	5.13137245	6.9038887	4.02354956
306	-6.78232813	2.84187222	8.67640495	3.28500128	4.09740448	2.9157269
307	-5.38269424	3.80198526	10.4489212	3.80198526	4.98366261	6.16534042
308	-4.42504978	5.50064659	8.23327637	6.31305027	6.9038887	7.05159855
309	-6.04567862	6.0914855	5.35293722	7.93785667	7.56858253	6.38690472
310	-5.82468367	5.35293722	4.39282417	6.01763058	6.68232441	6.46075964
311	-5.38269424	6.31305027	7.34701777	4.83595324	7.56858253	7.79014683
312	-4.64604473	6.31305027	8.38098621	5.13137245	7.49472761	4.31896925
313	-7.07698774	6.23919535	7.64243746	3.65427542	7.93785667	1.73404944
314	-6.63499832	5.2790823	7.49472761	2.69416237	8.15942097	2.47259784
315	-5.1616993	6.16534042	9.04567909	5.2790823	8.8979702	4.54053354
316	-4.71970987	6.68232441	10.89205074	8.08556652	7.93785667	3.3588562
317	-7.59264231	7.86400175	11.33517933	7.27316332	8.52869511	4.02354956
318	-6.19300842	6.31305027	8.75026035	4.09740448	8.45484066	4.09740448
319	-5.01436949	4.39282417	7.12545347	5.64835644	8.52869511	4.24511433
320	-5.60368919	3.94969487	7.1993084	9.63651848	7.93785667	2.98958182
321	-8.18196201	6.23919535	9.71037292	10.59663105	8.52869511	3.80198526
322	-7.07698774	6.75617933	9.41495323	9.34109879	7.64243746	5.2790823
323	-6.19300842	5.2790823	9.19338894	9.71037292	6.46075964	6.68232441
324	-5.45635891	5.72221136	10.67048645	12.07372856	7.1993084	6.75617933
325	-5.3090291	8.52869511	12.4430027	14.2893734	10.07964706	6.0914855
326	-5.23536444	7.86400175	10.59663105	13.62468052	10.5227766	3.13729167
327	-5.67735386	6.9038887	10.22735691	11.40903473	8.8241148	2.32488823
328	-5.60368919	7.05159855	12.29529285	11.18747044	6.83003378	1.80790424
329	-5.45635891	7.71629238	14.51093864	13.10769653	6.46075964	2.54645276
330	-4.20405531	5.86992073	13.18155098	12.81227684	6.38690472	3.3588562
331	-3.76206541	6.60846949	12.14758301	11.03976059	6.83003378	5.57450151
332	-4.49871492	7.56858253	12.88613129	11.26132488	5.42679167	4.1712594
333	-6.56133318	7.79014683	13.84624481	14.2893734	5.57450151	2.47259784
334	-4.27771997	6.9038887	11.48288918	15.17563152	5.35293722	1.21706545
335	-2.43609643	7.79014683	11.26132488	13.10769653	5.2790823	1.88175917
336	-3.09908104	7.64243746	12.3691473	10.5227766	4.24511433	0.99550092
337	-5.45635891	6.75617933	12.3691473	10.07964706	6.9038887	1.95561397
338	-5.3090291	6.16534042	10.7443409	12.07372856	8.75026035	1.58633971
339	-5.08803463	8.52869511	12.3691473	14.2893734	7.86400175	1.29092038
340	-3.4674058	9.93193722	14.58479309	14.43708324	6.60846949	1.51248491
341	-4.20405531	9.04567909	14.58479309	12.51685715	9.85808277	3.43271089
342	-2.36243153	6.75617933	12.59071255	10.4489212	9.11953449	2.69416237
343	-1.99410689	6.38690472	13.32926083	11.03976059	6.31305027	1.66019464
344	-1.47845232	6.01763058	13.77238941	11.70445442	6.01763058	1.21706545
345	-4.27771997	6.23919535	12.51685715	11.33517933	8.67640495	1.58633971
346	-5.3090291	4.83595324	9.78422832	10.15350246	7.93785667	0.84779125
347	-4.86703968	5.13137245	10.30121231	10.7443409	5.86992073	0.40466216
348	-4.42504978	6.38690472	12.59071255	11.63059902	4.90980816	-0.18617664
349	-5.97201347	7.93785667	12.81227684	11.40903473	6.9038887	0.10924275
350	-7.00332308	6.46075964	9.11953449	10.00579262	7.12545347	0.55237186
351	-6.19300842	5.57450151	7.05159855	9.71037292	6.46075964	2.39874315

	AO	AP	AQ	AR	AS	AT
293	2.69416237	10.60809422	5.4033103	-8.47662163	-7.12609768	3.75274873
294	4.54053354	9.87144566	4.5909071	-9.33604622	-6.85599327	4.66362524
295	4.1712594	10.16610527	3.9262135	-8.1328516	-6.83143806	5.37755537
296	2.1033237	10.16610527	2.59682631	-8.10829735	-7.17520809	4.09740448
297	-0.70316058	10.97641945	3.9262135	-8.84494591	-7.05243301	3.87583995
298	0.99550092	10.82908916	4.81247187	-9.4833765	-6.65955305	4.88518953
299	3.65427542	10.68175983	4.22163296	-8.72217178	-6.75777292	6.33766842
300	6.46075964	8.98746586	2.30140686	-7.96096706	-7.24887276	6.53461456
301	7.1993084	10.38710022	3.55693913	-7.15065289	-6.83143806	6.33766842
302	6.9038887	9.87144566	5.25560093	-7.39620256	-6.56133318	5.67297459
303	3.72813034	7.66149712	6.43727827	-7.15065289	-7.3225379	6.2638135
304	2.9157269	6.18819809	4.73861694	-7.39620256	-8.86950111	6.50999641
305	5.05751753	7.29317236	3.63079405	-7.98552227	-9.04138565	5.94377565
306	6.31305027	8.98746586	3.9262135	-9.26238155	-8.52573204	4.93442631
307	5.42679167	8.54547596	4.29548788	-8.84494591	-7.07698774	6.01763058
308	6.23919535	8.61914158	3.03995538	-8.86950111	-7.59264231	6.68232441
309	7.27316332	10.90275478	2.96610045	-9.82714558	-9.13960648	6.46075964
310	7.27316332	11.34474373	3.03995538	-11.39866447	-9.63070583	5.25446415
311	4.83595324	11.41840935	5.32945538	-10.19547081	-8.20651722	6.16534042
312	3.80198526	8.76647091	5.55102015	-8.45206642	-7.71541739	6.60846949
313	4.24511433	8.25081635	6.28956842	-7.73997259	-7.96096706	5.84530258
314	7.64243746	8.10348701	5.10789108	-7.96096706	-8.20651722	5.1559906
315	9.19338894	9.57678509	3.9262135	-7.91185713	-7.46986771	6.83003378
316	8.97182465	9.87144566	3.26151991	-7.76452732	-7.54353237	8.55331421
317	6.68232441	10.01877499	4.07392311	-7.00332308	-7.69086218	8.8241148
318	7.42087269	9.13479614	4.29548788	-7.61719751	-8.50117683	6.38690519
319	6.38690472	9.42945576	4.81247187	-8.50117683	-8.84494591	5.72221136
320	5.72221136	7.95615673	4.22163296	-9.75348091	-8.30473709	6.92850733
321	6.16534042	7.95615673	5.10789108	-9.40971088	-7.05243301	8.84873295
322	9.56266308	6.9248476	4.66476202	-9.13960648	-6.92965794	8.50407696
323	9.26724434	8.84013653	5.55102015	-9.13960648	-7.76452732	8.06094837
324	7.56858253	8.54547596	6.14185905	-8.50117683	-8.42751217	9.48880863
325	6.60846949	7.66149712	5.77258492	-7.81363726	-7.73997211	11.75369072
326	7.64243746	7.80882692	4.88632631	-9.33604527	-7.42075777	10.6951046
327	7.64243746	9.13479614	4.73861694	-10.44102001	-6.48766851	9.51342678
328	6.46075964	9.57678509	5.25560093	-10.56379509	-6.97876787	10.17812061
329	4.39282417	8.32448196	5.4033103	-9.67981529	-7.73997211	11.77830887
330	5.94377565	6.40919304	4.88632631	-10.22002506	-7.81363726	10.6212492
331	7.1993084	6.99851274	5.92029428	-9.58159637	-5.82468367	9.93193817
332	5.35293722	7.21950722	6.14185905	-8.42751217	-6.14389849	10.5720129
333	0.478517	8.25081635	7.39739132	-7.69086218	-6.97876787	11.97525501
334	1.14321065	7.95615673	7.69281054	-9.09049606	-6.78232813	11.18746948
335	3.87583995	9.13479614	9.09605312	-9.48337555	-5.72646379	10.71972275
336	4.98366261	10.16610527	9.16990757	-8.79583645	-7.17520809	10.17812061
337	2.17717862	11.27107906	9.24376297	-8.47662163	-7.56808758	9.73499107
338	1.29092038	11.05008411	8.65292358	-9.60615063	-6.90510273	9.66113663
339	1.29092038	10.60809422	8.94834328	-9.09049606	-6.46311331	11.72907162
340	2.62030768	7.66149712	8.87448788	-8.05918694	-7.00332308	12.98460484
341	1.29092038	6.9248476	9.39147186	-8.3292923	-7.24887276	12.04910946
342	1.29092038	6.9248476	7.91437531	-10.39191055	-6.19300842	9.93193817
343	1.43862998	8.25081635	8.65292358	-9.77803612	-4.98981476	10.25197506
344	3.28500128	7.07217741	9.09605312	-8.50117683	-5.13714457	10.49815845
345	2.9157269	7.80882692	11.01627922	-7.98552227	-7.37164736	10.03041077
346	4.09740448	10.7554245	11.45940781	-9.87625599	-6.55028725	8.25789452
347	7.12545347	11.71306896	9.98231125	-10.1463604	-6.7577734	8.7256422
348	8.8979702	10.68175983	9.8346014	-8.50117683	-5.3090291	10.20273876
349	7.34701777	10.01877499	11.82868195	-6.61044312	-5.99656868	10.71972275
350	4.46667862	8.61914158	12.41952133	-7.61719704	-8.18196201	8.52869606
351	2.9157269	8.25081635	11.16398907	-8.37840176	-8.37840176	7.44549084

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293	5.37755537
294	6.01763058
295	5.99301243
296	4.29435062
297	3.45732927
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301	6.2638135
302	5.86992073
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304	5.54988337
305	5.3283186
306	4.44206047
307	5.52526474
308	6.73156071
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318	6.65770578
319	6.38690472
320	5.54988337
321	6.16534042
322	7.49472761
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343	3.13729167
344	3.50656581
345	4.3928237
346	4.29435062
347	4.46667862
348	4.54053402
349	4.78671646
350	4.04816818
351	3.92507648

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
352								-.001540	-4.57	6.46	-8.84	9.12	-9.43	10.01
353								-.001530	-6.12	5.57	-8.70	7.05	-10.32	9.71
354								-.001520	-6.49	5.43	-7.37	8.68	-11.35	9.27
355								-.001510	-5.31	5.13	-6.78	11.04	-11.64	9.05
356								-.001500	-5.38	3.29	-10.47	9.19	-11.35	8.38
357								-.001490	-5.46	4.10	-11.79	7.79	-10.47	7.94
358								-.001480	-6.71	5.13	-9.58	8.53	-10.47	7.72
359								-.001470	-6.19	5.87	-5.46	9.71	-10.83	8.82
360								-.001460	-5.82	5.43	-5.75	7.35	-11.87	9.19
361								-.001450	-5.53	6.17	-8.26	5.60	-11.35	8.38
362								-.001440	-5.01	7.05	-9.14	6.90	-9.58	7.94
363								-.001430	-4.57	7.94	-6.63	9.93	-10.02	8.68
364								-.001420	-6.78	6.68	-6.41	10.30	-11.94	9.41
365								-.001410	-7.81	5.43	-8.11	10.89	-12.53	10.30
366								-.001400	-7.45	4.10	-8.70	11.19	-10.61	11.04
367								-.001390	-6.05	4.17	-6.93	11.85	-9.73	9.78
368								-.001380	-7.30	3.29	-7.67	10.89	-10.32	6.90
369								-.001370	-8.55	4.76	-8.55	11.19	-11.72	4.17
370								-.001360	-6.63	6.61	-8.70	10.60	-11.05	5.35
371								-.001350	-3.54	7.20	-6.71	10.45	-9.66	7.64
372								-.001340	-4.72	4.10	-7.74	8.45	-10.69	7.64
373								-.001330	-5.68	4.32	-8.62	7.42	-12.53	6.09
374								-.001320	-4.65	7.20	-8.99	8.09	-12.01	6.24
375								-.001310	-2.66	9.05	-7.37	10.15	-9.88	7.86
376								-.001300	-5.38	5.72	-7.67	9.27	-8.48	8.31
377								-.001290	-6.41	3.73	-7.15	8.82	-9.29	6.61
378								-.001280	-3.76	4.54	-7.37	8.97	-10.76	5.06
379								-.001270	-1.40	6.90	-7.22	9.93	-11.05	4.25
380								-.001260	-2.95	5.57	-8.84	8.53	-10.02	5.21
381								-.001250	-3.39	4.25	-9.07	8.60	-9.14	7.94
382								-.001240	-2.95	4.98	-9.14	9.27	-11.28	8.90
383								-.001230	-3.54	6.90	-7.37	9.93	-13.26	8.23
384								-.001220	-6.12	6.31	-7.37	8.16	-11.42	7.72
385								-.001210	-6.93	4.69	-8.03	7.57	-8.84	7.86
386								-.001200	-6.56	3.36	-7.96	8.23	-10.17	7.13
387								-.001190	-4.13	3.88	-6.78	9.71	-12.38	4.98
388								-.001180	-4.28	2.69	-7.96	7.57	-11.13	3.21
389								-.001170	-5.24	1.73	-9.21	4.02	-8.99	4.25
390								-.001160	-6.63	.92	-7.81	3.36	-9.43	7.42
391								-.001150	-4.20	2.69	-5.01	6.68	-11.72	8.23
392								-.001140	-3.84	2.69	-6.05	7.49	-12.01	6.76
393								-.001130	-5.01	1.88	-7.89	6.90	-10.39	6.90
394								-.001120	-6.86	.26	-8.18	6.24	-9.58	7.42
395								-.001110	-5.75	1.00	-5.60	8.53	-9.95	6.90
396								-.001100	-5.82	1.96	-4.94	8.31	-10.17	6.02
397								-.001090	-5.46	3.51	-5.31	7.64	-9.58	6.31
398								-.001080	-6.27	2.92	-7.15	6.53	-9.14	7.42
399								-.001070	-4.87	3.58	-6.49	7.94	-10.17	6.90
400								-.001060	-2.66	3.36	-6.19	7.79	-10.83	6.90
401								-.001050	-1.33	2.92	-6.05	8.09	-9.73	8.16
402								-.001040	-4.72	1.00	-7.15	6.76	-8.99	8.45
403								-.001030	-6.63	1.73	-5.90	7.27	-10.69	6.31
404								-.001020	-6.05	2.99	-5.90	7.49	-13.04	3.88
405								-.001010	-4.06	3.51	-6.49	7.64	-11.35	4.54
406								-.001000	-4.50	2.03	-8.55	4.84	-8.99	5.35
407								-.000990	-4.72	2.69	-6.78	4.10	-11.20	4.84
408								-.000980	-6.49	2.32	-4.20	5.13	-13.85	4.10
409								-.000970	-7.08	1.51	-4.20	6.83	-12.01	4.47
410								-.000960	-5.31	1.14	-7.96	6.02	-8.99	4.17

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
352	-13.56	7.13	-3.98	.55	-7.00	4.47	-.001540	8.62	12.42	-7.62	8.53	-8.18	4.05	
353	-14.22	6.46	-4.72	2.40	-6.19	2.92	-.001530	8.25	11.16	-8.38	7.45	-8.38	3.93	
354	-14.08	4.39	-4.65	1.73	-4.72	2.77	-.001520	7.44	9.10	-8.40	7.79	-7.81	2.96	
355	-12.82	4.54	-1.99	1.29	-4.57	2.92	-.001510	8.47	9.98	-7.91	8.41	-6.46	2.92	
356	-12.53	4.76	-1.33	.18	-3.39	4.69	-.001500	8.10	11.02	-9.07	6.95	-5.75	3.21	
357	-12.16	5.13	-.74	.48	-3.17	4.39	-.001490	8.03	11.02	-9.24	6.61	-5.36	3.33	
358	-12.75	3.14	-2.29	-.19	-2.80	4.54	-.001480	6.78	8.21	-8.92	7.13	-5.95	2.50	
359	-12.01	3.51	-1.63	.85	-4.57	3.80	-.001470	7.74	8.73	-7.49	8.13	-6.07	2.72	
360	-13.41	4.98	-2.66	.40	-5.16	1.81	-.001460	9.13	11.46	-7.81	7.32	-7.08	2.40	
361	-14.37	6.24	-2.07	1.00	-5.46	-.63	-.001450	9.13	12.49	-8.38	6.78	-7.30	2.20	
362	-14.15	4.69	-3.17	.70	-4.43	1.22	-.001440	6.56	9.83	-7.91	7.30	-7.25	2.20	
363	-11.79	3.95	-4.79	2.40	-6.56	2.47	-.001430	6.92	9.76	-7.08	8.85	-7.72	2.94	
364	-11.42	2.99	-6.63	2.03	-7.30	2.47	-.001420	6.34	10.28	-8.38	8.80	-8.45	2.50	
365	-12.01	2.99	-4.87	1.44	-5.01	.55	-.001410	6.41	10.57	-9.48	8.87	-7.30	1.66	
366	-13.93	1.44	-3.54	.40	-1.33	1.29	-.001400	5.16	8.80	-8.92	8.77	-6.27	1.04	
367	-13.34	1.73	-2.58	.55	-2.73	.70	-.001390	8.03	10.06	-7.57	8.60	-6.22	1.00	
368	-11.87	2.55	-4.06	-.92	-3.98	1.59	-.001380	8.99	10.28	-8.43	7.03	-6.63	1.07	
369	-9.73	4.32	-4.87	-1.81	-4.06	2.03	-.001370	8.03	9.02	-9.61	6.71	-6.22	1.51	
370	-10.54	3.06	-6.27	-2.55	-3.25	2.18	-.001360	6.92	6.58	-8.80	7.52	-6.68	.90	
371	-11.35	3.21	-5.53	-.11	-4.13	.77	-.001350	8.10	5.18	-6.63	8.43	-7.00	1.29	
372	-12.97	3.95	-5.31	1.36	-3.25	.55	-.001340	10.02	6.44	-7.72	6.73	-7.18	1.96	
373	-12.53	5.13	-4.94	1.29	-3.91	.70	-.001330	9.21	7.62	-8.94	5.94	-7.13	2.37	
374	-12.31	3.73	-5.46	1.14	-4.79	1.88	-.001320	6.78	7.47	-8.55	7.17	-7.52	2.25	
375	-12.23	3.36	-3.91	3.43	-5.09	2.92	-.001310	7.59	6.14	-6.63	9.02	-7.08	3.24	
376	-13.56	3.43	-3.25	4.25	-4.57	2.69	-.001300	9.58	4.52	-7.18	7.77	-7.13	3.46	
377	-12.68	4.84	-2.95	4.02	-4.13	.63	-.001290	11.49	6.29	-7.62	6.39	-6.59	3.16	
378	-12.09	3.43	-4.35	2.10	-1.63	-.48	-.001280	9.87	7.03	-7.30	6.19	-6.02	1.68	
379	-10.91	2.55	-3.76	1.59	-.59	-2.40	-.001270	8.32	7.91	-6.56	7.03	-5.09	.58	
380	-10.98	2.18	-4.06	1.00	-2.22	-2.99	-.001260	7.44	8.21	-7.27	6.44	-5.75	.06	
381	-11.42	2.55	-4.50	2.18	-6.34	-1.81	-.001250	7.29	8.58	-7.20	6.93	-7.42	.97	
382	-12.38	2.03	-6.78	2.03	-5.82	1.29	-.001240	8.32	8.21	-7.79	7.72	-8.33	1.78	
383	-10.17	2.32	-5.90	2.92	-3.10	1.00	-.001230	10.76	6.73	-8.06	8.36	-6.39	2.08	
384	-9.73	2.18	-6.34	1.73	-2.22	-.92	-.001220	9.28	5.40	-8.30	7.40	-6.09	1.00	
385	-10.32	2.25	-5.82	2.47	-5.31	-2.62	-.001210	7.74	6.66	-7.94	6.71	-7.15	.70	
386	-12.60	1.00	-6.49	2.18	-5.60	-1.15	-.001200	7.37	6.58	-8.23	6.24	-8.23	.68	
387	-11.72	-.19	-4.94	3.21	-5.16	-1.07	-.001190	10.39	8.06	-7.76	6.19	-7.27	.65	
388	-11.50	-1.52	-4.65	3.21	-2.44	-.63	-.001180	10.24	7.18	-7.79	4.49	-6.19	.36	
389	-10.76	-.33	-4.28	4.54	-2.36	-2.25	-.001170	8.10	6.51	-7.81	3.33	-5.80	.65	
390	-11.57	.55	-5.31	4.17	-2.29	-2.77	-.001160	6.85	6.73	-7.96	3.90	-6.39	.65	
391	-12.82	-.48	-4.28	4.91	-3.10	-2.70	-.001150	7.88	8.65	-6.98	5.87	-6.73	.58	
392	-14.66	-3.21	-4.43	3.88	-2.36	.26	-.001140	8.99	10.79	-7.30	5.65	-7.15	.31	
393	-14.00	-1.29	-5.90	3.58	-2.80	.55	-.001130	8.10	10.50	-7.76	5.23	-7.57	.95	
394	-13.71	1.00	-6.56	4.69	-2.73	.85	-.001120	6.04	8.65	-8.21	4.64	-7.67	2.18	
395	-12.68	2.25	-4.28	6.46	-2.95	1.51	-.001110	6.70	8.65	-7.10	5.48	-6.63	3.41	
396	-12.09	1.73	-3.98	5.28	-2.73	1.59	-.001100	8.40	7.32	-6.98	5.43	-6.27	2.87	
397	-10.17	3.21	-5.24	2.92	-3.47	-.48	-.001090	10.61	7.10	-6.78	5.82	-6.29	1.88	
398	-10.54	4.54	-5.90	1.44	-2.36	-1.37	-.001080	9.58	6.51	-7.52	5.62	-6.27	1.54	
399	-12.53	5.28	-4.57	.92	-1.63	-1.52	-.001070	8.91	6.88	-7.18	6.14	-6.24	1.56	
400	-14.30	4.98	-4.57	-.78	-1.63	-.41	-.001060	8.69	7.18	-6.56	6.02	-6.83	1.27	
401	-12.09	6.09	-5.46	-1.81	-2.14	.11	-.001050	8.40	5.55	-5.70	6.39	-6.56	1.46	
402	-11.79	5.06	-6.78	-3.21	-2.58	.85	-.001040	7.81	4.22	-6.95	5.40	-7.05	.90	
403	-12.53	4.69	-5.46	-3.21	-4.43	-.11	-.001030	7.59	5.03	-7.74	5.11	-7.47	.45	
404	-14.15	3.36	-4.06	-1.96	-4.72	.11	-.001020	8.40	6.29	-8.33	4.79	-7.64	.50	
405	-13.56	3.95	-3.47	-.19	-3.98	1.22	-.001010	10.46	7.18	-7.30	5.23	-7.00	1.66	
406	-13.26	5.13	-5.46	-2.70	-2.36	3.65	-.001000	9.28	4.44	-7.35	4.07	-7.03	2.03	
407	-13.04	6.09	-4.06	-2.11	-2.95	3.73	-.000990	9.28	4.30	-7.57	3.88	-6.68	2.57	
408	-15.25	3.73	-1.92	.11	-2.51	4.91	-.000980	8.84	4.89	-8.18	3.85	-6.56	2.92	
409	-14.89	2.92	-1.63	1.00	-4.57	2.84	-.000970	10.39	6.66	-7.76	4.27	-7.03	2.25	
410	-12.97	3.73	-6.05	-1.81	-5.75	1.81	-.000960	9.36	6.51	-7.42	3.78	-8.26	1.24	

	AC	AD	AE	AF	AG	AH
352	0.00347	-6.48766804	-7.37164736	-11.34955406	-14.07515717	-4.64604473
353	0.00348	-5.3090291	-6.78232813	-11.64421368	-12.82285309	-1.99410689
354	0.00349	-5.38269424	-10.46557522	-11.34955406	-12.52819347	-1.3311224
355	0.0035	-5.45635891	-11.79154396	-10.46557522	-12.15986919	-0.74180287
356	0.00351	-6.70866299	-9.58159542	-10.46557522	-12.74918842	-2.28876662
357	0.00352	-6.19300842	-5.45635891	-10.8338995	-12.01253891	-1.62578213
358	0.00353	-5.82468367	-5.751019	-11.86520863	-13.41217232	-2.65709138
359	0.00354	-5.53002405	-8.25562668	-11.34955406	-14.36981678	-2.06777191
360	0.00355	-5.01436949	-9.13960648	-9.58159542	-14.14682183	-3.17274594
361	0.00356	-4.57237959	-6.63499832	-10.02358532	-11.79154396	-4.79337454
362	0.00357	-6.78232813	-6.41400337	-11.93687424	-11.42321968	-6.63499832
363	0.00358	-7.81363726	-8.10829735	-12.52819347	-12.01253891	-4.86703968
364	0.00359	-7.4453125	-8.69761658	-10.61290455	-13.92782688	-3.5410707
365	0.0036	-6.04567862	-6.92965794	-9.7289257	-13.33650765	-2.58342648
366	0.00361	-7.29798269	-7.66630745	-10.31824493	-11.86520863	-4.05672503
367	0.00362	-8.55028629	-8.55028629	-11.7178793	-9.7289257	-4.86703968
368	0.00363	-6.63499832	-8.69761658	-11.05489445	-10.53923988	-6.26667356
369	0.00364	-3.5410707	-6.70866299	-9.65526104	-11.34955406	-5.53002405
370	0.00365	-4.71970987	-7.73997211	-10.68657017	-12.97018337	-5.3090291
371	0.00366	-5.67735386	-8.62395191	-12.52819347	-12.52819347	-4.94070435
372	0.00367	-4.64604473	-8.99227619	-12.01253891	-12.30719852	-5.45635891
373	0.00368	-2.65709138	-7.37164736	-9.87625599	-12.23353386	-3.90939546
374	0.00369	-5.38269424	-7.66630745	-8.47662163	-13.5595026	-3.24641085
375	0.0037	-6.41400337	-7.15065289	-9.28693581	-12.67552376	-2.95175099
376	0.00371	-3.76206541	-7.37164736	-10.76023483	-12.08620358	-4.35138512
377	0.00372	-1.4047873	-7.22431755	-11.05489445	-10.90756512	-3.76206541
378	0.00373	-2.95175099	-8.84494591	-10.02358532	-10.98122978	-4.05672503
379	0.00374	-3.39374065	-9.06594086	-9.13960648	-11.42321968	-4.49871492
380	0.00375	-2.95175099	-9.13960648	-11.2758894	-12.38086319	-6.78232813
381	0.00376	-3.5410707	-7.37164736	-13.26484299	-10.1709156	-5.89834881
382	0.00377	-6.11934376	-7.37164736	-11.42321968	-9.7289257	-6.34033823
383	0.00378	-6.92965794	-8.03463173	-8.84494591	-10.31824493	-5.82468367
384	0.00379	-6.56133318	-7.96096706	-10.1709156	-12.60185814	-6.48766804
385	0.0038	-4.13039017	-6.78232813	-12.38086319	-11.7178793	-4.94070435
386	0.00381	-4.27771997	-7.96096706	-11.12855911	-11.49688435	-4.64604473
387	0.00382	-5.23536444	-9.21327114	-8.99227619	-10.76023483	-4.27771997
388	0.00383	-6.63499832	-7.81363726	-9.43426609	-11.57054901	-5.3090291
389	0.00384	-4.20405531	-5.01436949	-11.7178793	-12.82285309	-4.27771997
390	0.00385	-3.83573031	-6.04567862	-12.01253891	-14.66447639	-4.42504978
391	0.00386	-5.01436949	-7.88730192	-10.39191055	-14.0014925	-5.89834881
392	0.00387	-6.85599279	-8.18196201	-9.58159542	-13.70683289	-6.56133318
393	0.00388	-5.751019	-5.60368919	-9.94992065	-12.67552376	-4.27771997
394	0.00389	-5.82468367	-4.94070435	-10.1709156	-12.08620358	-3.98306036
395	0.0039	-5.45635891	-5.3090291	-9.58159542	-10.1709156	-5.23536444
396	0.00391	-6.26667356	-7.15065289	-9.13960648	-10.53923988	-5.89834881
397	0.00392	-4.86703968	-6.48766804	-10.1709156	-12.52819347	-4.57237959
398	0.00393	-2.65709138	-6.19300842	-10.8338995	-14.29615211	-4.57237959
399	0.00394	-1.3311224	-6.04567862	-9.7289257	-12.08620358	-5.45635891
400	0.00395	-4.71970987	-7.15065289	-8.99227619	-11.79154396	-6.78232813
401	0.00396	-6.63499832	-5.89834881	-10.68657017	-12.52819347	-5.45635891
402	0.00397	-6.04567862	-5.89834881	-13.04384804	-14.14682183	-4.05672503
403	0.00398	-4.05672503	-6.48766804	-11.34955406	-13.5595026	-3.4674058
404	0.00399	-4.49871492	-8.55028629	-8.99227619	-13.26484299	-5.45635891
405	0.004	-4.71970987	-6.78232813	-11.20222473	-13.04384804	-4.05672503
406	0.00401	-6.48766804	-4.20405531	-13.85416222	-15.25379658	-1.92044199
407	0.00402	-7.07698774	-4.20405531	-12.01253891	-14.88547134	-1.62578213
408	0.00403	-5.3090291	-7.96096706	-8.99227619	-12.97018337	-6.04567862
409	0.00404	-1.92044199	-8.18196201	-10.1709156	-10.76023483	-5.89834881
410	0.00405	-2.87808609	-6.63499832	-12.52819347	-11.64421368	-4.57237959

	AI	AJ	AK	AL	AM	AN
352	-4.71970987	5.42679167	8.67640495	9.26724434	4.39282417	1.73404944
353	-4.57237959	5.13137245	11.03976059	9.04567909	4.54053354	1.29092038
354	-3.39374065	3.28500128	9.19338894	8.38098621	4.76209831	0.1830976
355	-3.17274594	4.09740448	7.79014683	7.93785667	5.13137245	0.478517
356	-2.80442119	5.13137245	8.52869511	7.71629238	3.13729167	-0.18617664
357	-4.57237959	5.86992073	9.71037292	8.8241148	3.50656581	0.84779125
358	-5.1616993	5.42679167	7.34701777	9.19338894	4.98366261	0.40466216
359	-5.45635891	6.16534042	5.79606628	8.38098621	6.23919535	0.99550092
360	-4.42504978	7.05159855	6.9038887	7.93785667	4.68824339	0.70008153
361	-6.56133318	7.93785667	9.93193722	8.67640495	3.94969487	2.39874315
362	-7.29798269	6.68232441	10.30121231	9.41495323	2.98958182	2.02946877
363	-5.01436949	5.42679167	10.89205074	10.30121231	2.98958182	1.43862998
364	-1.3311224	4.09740448	11.18747044	11.03976059	1.43862998	0.40466216
365	-2.73075628	4.1712594	11.85216331	9.78422832	1.73404944	0.55237186
366	-3.98306036	3.28500128	10.89205074	6.9038887	2.54645276	-0.92472512
367	-4.05672503	4.76209831	11.18747044	4.1712594	4.31896925	-1.8109833
368	-3.24641085	6.60846949	10.59663105	5.35293722	3.06343675	-2.5495317
369	-4.13039017	7.1993084	10.4489212	7.64243746	3.21114635	-0.11232179
370	-3.24641085	4.09740448	8.45484066	7.64243746	3.94969487	1.36477518
371	-3.90939546	4.31896925	7.42087269	6.0914855	5.13137245	1.29092038
372	-4.79337454	7.1993084	8.08556652	6.23919535	3.72813034	1.14321065
373	-5.08803463	9.04567909	10.15350246	7.86400175	3.3588562	3.43271089
374	-4.57237959	5.72221136	9.26724434	8.30713081	3.43271089	4.24511433
375	-4.13039017	3.72813034	8.8241148	6.60846949	4.83595324	4.02354956
376	-1.62578213	4.54053354	8.97182465	5.05751753	3.43271089	2.1033237
377	-0.594473	6.9038887	9.93193722	4.24511433	2.54645276	1.58633971
378	-2.21510172	5.57450151	8.52869511	5.20522738	2.17717862	0.99550092
379	-6.34033823	4.24511433	8.60255051	7.93785667	2.54645276	2.17717862
380	-5.82468367	4.98366261	9.26724434	8.8979702	2.02946877	2.02946877
381	-3.09908104	6.9038887	9.93193722	8.23327637	2.32488823	2.9157269
382	-2.21510172	6.31305027	8.15942097	7.71629238	2.17717862	1.73404944
383	-5.3090291	4.68824339	7.56858253	7.86400175	2.25103331	2.47259784
384	-5.60368919	3.3588562	8.23327637	7.12545347	0.99550092	2.17717862
385	-5.1616993	3.87583995	9.71037292	4.98366261	-0.18617664	3.21114635
386	-2.43609643	2.69416237	7.56858253	3.21114635	-1.51556396	3.21114635
387	-2.36243153	1.73404944	4.02354956	4.24511433	-0.33388633	4.54053354
388	-2.28876662	0.92164612	3.3588562	7.42087269	0.55237186	4.1712594
389	-3.09908104	2.69416237	6.68232441	8.23327637	-0.48159602	4.90980816
390	-2.36243153	2.69416237	7.49472761	6.75617933	-3.21422553	3.87583995
391	-2.80442119	1.88175917	6.9038887	6.9038887	-1.29399931	3.58042073
392	-2.73075628	0.25695246	6.23919535	7.42087269	0.99550092	4.68824339
393	-2.95175099	0.99550092	8.52869511	6.9038887	2.25103331	6.46075964
394	-2.73075628	1.95561397	8.30713081	6.01763058	1.73404944	5.2790823
395	-3.4674058	3.50656581	7.64243746	6.31305027	3.21114635	2.9157269
396	-2.36243153	2.9157269	6.53461456	7.42087269	4.54053354	1.43862998
397	-1.62578213	3.58042073	7.93785667	6.9038887	5.2790823	0.92164612
398	-1.62578213	3.3588562	7.79014683	6.9038887	4.98366261	-0.77701545
399	-2.14143682	2.9157269	8.08556652	8.15942097	6.0914855	-1.8109833
400	-2.58342648	0.99550092	6.75617933	8.45484066	5.05751753	-3.21422553
401	-4.42504978	1.73404944	7.27316332	6.31305027	4.68824339	-3.21422553
402	-4.71970987	2.98958182	7.49472761	3.87583995	3.3588562	-1.95869303
403	-3.98306036	3.50656581	7.64243746	4.54053354	3.94969487	-0.18617664
404	-2.36243153	2.02946877	4.83595324	5.35293722	5.13137245	-2.69724154
405	-2.95175099	2.69416237	4.09740448	4.83595324	6.0914855	-2.10640264
406	-2.50976157	2.32488823	5.13137245	4.09740448	3.72813034	0.10924275
407	-4.57237959	1.51248491	6.83003378	4.46667862	2.9157269	0.99550092
408	-5.751019	1.14321065	6.01763058	4.1712594	3.72813034	-1.8109833
409	-7.4453125	3.43271089	5.57450151	3.06343675	4.98366261	-1.66327357
410	-5.01436949	5.86992073	5.13137245	4.39282417	1.66019464	0.55237186

	AO	AP	AQ	AR	AS	AT
352	2.76801729	7.44050217	9.09605312	-8.40295601	-7.81363726	7.79014683
353	2.9157269	8.47181129	9.98231125	-7.91185713	-6.46311331	8.40560436
354	4.68824339	8.10348701	11.01627922	-9.06594086	-5.751019	6.95312548
355	4.39282417	8.0298214	11.01627922	-9.23782635	-5.35813951	6.60846949
356	4.54053354	6.7775178	8.209795	-8.91861153	-5.94745874	7.12545347
357	3.80198526	7.73516178	8.72677898	-7.49442244	-6.07023335	8.13480282
358	1.80790424	9.13479614	11.45940781	-7.81363726	-7.07698774	7.32239962
359	-0.62930572	9.13479614	12.49337578	-8.37840176	-7.29798269	6.78079748
360	1.21706545	6.55652285	9.8346014	-7.91185713	-7.24887276	7.29778147
361	2.47259784	6.9248476	9.76074696	-7.07698774	-7.71541739	8.84873295
362	2.47259784	6.3355279	10.27773094	-8.37840176	-8.45206642	8.79949665
363	0.55237186	6.40919304	10.57314968	-9.48337555	-7.29798269	8.87335205
364	1.29092038	5.15688896	8.80063343	-8.91861153	-6.26667309	8.7748785
365	0.70008153	8.0298214	10.0561657	-7.56808758	-6.21756363	8.60255051
366	1.58633971	8.98746586	10.27773094	-8.42751122	-6.63499784	7.0269804
367	2.02946877	8.0298214	9.02219772	-9.60615063	-6.21756363	6.70694256
368	2.17717862	6.9248476	6.58498812	-8.79583645	-6.68410826	7.51934576
369	0.77393639	8.10348701	5.18174601	-6.63499832	-7.0033226	8.43022251
370	0.55237186	10.01877499	6.43727827	-7.71541739	-7.17520761	6.73156071
371	0.70008153	9.20846081	7.61895609	-8.94316673	-7.12609768	5.94377565
372	1.88175917	6.7775178	7.47124624	-8.55028629	-7.51897717	7.17469025
373	2.9157269	7.58783197	6.14185905	-6.63499832	-7.07698822	9.02106094
374	2.69416237	9.57678509	4.51705217	-7.17520761	-7.12609768	7.76552868
375	0.62622672	11.49207401	6.28956842	-7.61719751	-6.58588839	6.38690472
376	-0.48159602	9.87144566	7.02811718	-7.29798269	-6.02112341	6.18995857
377	-2.40182209	8.32448196	7.91437531	-6.56133318	-5.08803463	7.02697992
378	-2.992661	7.44050217	8.209795	-7.27342749	-5.751019	6.43614149
379	-1.8109833	7.29317236	8.57906914	-7.19976282	-7.42075777	6.92850733
380	1.29092038	8.32448196	8.209795	-7.78908253	-8.32929134	7.71629238
381	0.99550092	10.7554245	6.73269796	-8.05918694	-6.38944864	8.35636711
382	-0.92472512	9.28212547	5.4033103	-8.30473709	-6.09478855	7.39625454
383	-2.62338662	7.73516178	6.65884304	-7.93641186	-7.15065241	6.70694256
384	-1.14628971	7.36683702	6.58498812	-8.23107147	-8.23107147	6.23919535
385	-1.07243478	10.38710022	8.06208515	-7.76452732	-7.27342749	6.18995857
386	-0.62930572	10.23976994	7.17582703	-7.78908205	-6.19300842	4.49129725
387	-2.25411248	8.10348701	6.51113319	-7.81363726	-5.80012894	3.33423781
388	-2.77109623	6.85118246	6.73269796	-7.96096706	-6.38944817	3.90045834
389	-2.69724154	7.88249207	8.65292358	-6.97876787	-6.73321819	5.86992121
390	0.25695246	8.98746586	10.79471397	-7.29798269	-7.15065241	5.64835644
391	0.55237186	8.10348701	10.49929523	-7.76452732	-7.56808758	5.22984552
392	0.84779125	6.04086828	8.65292358	-8.20651627	-7.66630745	4.63900661
393	1.51248491	6.70385265	8.65292358	-7.10154295	-6.63499832	5.47602844
394	1.58633971	8.39814663	7.3235364	-6.97876787	-6.26667356	5.42679167
395	-0.48159602	10.60809422	7.1019721	-6.78232765	-6.29122877	5.82068443
396	-1.36785424	9.57678509	6.51113319	-7.51897764	-6.26667356	5.62373829
397	-1.51556396	8.91380119	6.88040733	-7.17520761	-6.24211836	6.14072227
398	-0.40774119	8.69280624	7.17582703	-6.56133318	-6.83143806	6.01763058
399	0.10924275	8.39814663	5.55102015	-5.70190907	-6.56133318	6.38690472
400	0.84779125	7.80882692	4.22163296	-6.95421314	-7.05243301	5.40217352
401	-0.11232179	7.58783197	5.03403616	-7.73997259	-7.46986723	5.1067543
402	0.10924275	8.39814663	6.28956842	-8.3292923	-7.64175224	4.78671646
403	1.21706545	10.46076488	7.17582703	-7.29798222	-7.00332308	5.22984552
404	3.65427542	9.28212547	4.44319725	-7.34709263	-7.02787781	4.07278633
405	3.72813034	9.28212547	4.29548788	-7.56808758	-6.68410778	3.87583995
406	4.90980816	8.84013653	4.88632631	-8.18196201	-6.56133318	3.8512218
407	2.84187222	10.38710022	6.65884304	-7.76452732	-7.02787781	4.26973248
408	1.80790424	9.35579109	6.51113319	-7.42075729	-8.25562668	3.77736688
409	2.02946877	7.44050217	6.58498812	-6.7577734	-8.03463173	4.02354956
410	4.39282417	8.25081635	8.72677898	-7.34709263	-7.07698774	5.13137245

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352	2.96496367
353	2.9157269
354	3.21114635
355	3.33423781
356	2.49721622
357	2.71878076
358	2.39874291
359	2.20179677
360	2.20179677
361	2.94034529
362	2.49721622
363	1.66019452
364	1.04473746
365	0.99550092
366	1.06935573
367	1.51248491
368	0.89702791
369	1.29092026
370	1.95561397
371	2.37412477
372	2.25103331
373	3.23576474
374	3.45732927
375	3.16190982
376	1.6848129
377	0.57699013
378	0.06000618
379	0.97088271
380	1.78328598
381	2.07870531
382	0.99550098
383	0.70008153
384	0.67546326
385	0.65084499
386	0.35542557
387	0.65084493
388	0.65084499
389	0.57699019
390	0.30618897
391	0.94626445
392	2.17717862
393	3.4080925
394	2.86649036
395	1.88175905
396	1.53710306
397	1.56172144
398	1.26630199
399	1.46324837
400	0.89702773
401	0.4538987
402	0.50313532
403	1.66019452
404	2.02946877
405	2.57107115
406	2.91572714
407	2.25103331
408	1.24168372
409	1.78328598
410	2.20179701

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
411								-.000950	-1.92	3.43	-8.18	5.57	-10.17	3.06
412								-.000940	-2.88	5.87	-6.63	5.13	-12.53	4.39
413								-.000930	-6.05	6.68	-5.16	6.09	-12.01	6.76
414								-.000920	-7.37	4.84	-6.19	6.17	-9.66	6.46
415								-.000910	-4.28	4.39	-6.19	7.72	-8.84	3.65
416								-.000900	-3.69	2.92	-7.37	8.38	-9.14	2.69
417								-.000890	-5.90	2.55	-8.55	8.16	-9.88	5.94
418								-.000880	-8.03	3.29	-9.43	6.90	-11.35	8.45
419								-.000870	-7.45	5.87	-7.37	7.64	-11.13	6.68
420								-.000860	-7.67	4.61	-6.49	8.23	-10.32	5.13
421								-.000850	-7.15	3.06	-7.00	8.53	-10.02	6.68
422								-.000840	-6.12	3.21	-9.43	6.76	-9.80	8.68
423								-.000830	-4.57	3.95	-9.36	6.90	-9.58	7.86
424								-.000820	-6.19	1.73	-9.21	7.49	-9.73	5.72
425								-.000810	-6.05	.92	-6.93	10.01	-9.29	6.09
426								-.000800	-4.94	2.69	-7.96	8.97	-7.67	8.82
427								-.000790	-3.91	6.02	-9.21	8.53	-8.55	8.45
428								-.000780	-5.31	6.17	-11.13	7.79	-12.09	5.87
429								-.000770	-5.97	6.17	-9.73	8.23	-14.44	6.17
430								-.000760	-5.46	7.20	-8.84	8.09	-12.97	9.12
431								-.000750	-5.24	7.79	-8.70	7.94	-11.20	10.15
432								-.000740	-6.12	4.98	-9.88	7.64	-11.42	9.86
433								-.000730	-6.63	3.65	-7.96	9.05	-12.01	10.01
434								-.000720	-7.74	4.17	-7.81	8.68	-11.35	10.45
435								-.000710	-6.05	6.76	-8.62	8.97	-11.50	7.94
436								-.000700	-4.43	6.83	-10.02	9.19	-11.79	6.24
437								-.000690	-4.06	6.02	-8.11	9.86	-12.53	6.46
438								-.000680	-6.49	5.43	-7.96	8.97	-13.34	7.86
439								-.000670	-6.86	6.17	-9.07	8.23	-14.59	7.86
440								-.000660	-5.16	5.43	-9.43	7.64	-14.44	7.27
441								-.000650	-2.88	5.50	-5.53	7.79	-11.72	7.72
442								-.000640	-3.47	5.43	-3.84	6.76	-9.29	7.20
443								-.000630	-3.91	5.13	-5.90	6.17	-9.66	6.76
444								-.000620	-4.35	3.65	-9.07	5.50	-11.50	7.27
445								-.000610	-4.20	3.36	-7.81	6.98	-12.60	7.49
446								-.000600	-5.01	3.06	-6.34	6.61	-12.53	5.72
447								-.000590	-4.13	2.92	-7.37	6.98	-12.09	4.84
448								-.000580	-3.39	1.22	-10.02	8.23	-13.12	5.57
449								-.000570	-2.51	1.73	-9.14	11.04	-13.93	6.09
450								-.000560	-4.87	1.22	-8.99	9.19	-13.78	6.24
451								-.000550	-5.53	.70	-7.67	5.94	-14.08	5.87
452								-.000540	-5.75	4.39	-8.77	3.95	-13.71	4.10
453								-.000530	-7.45	12.07	-9.88	11.19	-12.68	4.39
454								-.000520	-7.96	12.07	-11.50	19.83	-12.68	12.66
455								-.000510	-3.47	.77	-7.67	18.87	-11.79	20.49
456								-.000500	-1.48	-8.31	-5.16	5.21	-8.40	12.96
457								-.000490	-4.79	-3.88	-6.34	.70	-6.41	-1.37
458								-.000480	-8.48	6.31	-9.95	12.07	-7.96	1.59
459								-.000470	-6.12	13.18	-9.95	22.04	-11.50	17.69
460								-.000460	-2.14	12.37	-7.81	17.39	-13.12	23.74
461								-.000450	-.01	7.20	-2.88	8.90	-11.13	12.15
462								-.000440	-4.35	.55	-.89	4.10	-7.67	.77
463								-.000430	-9.58	2.92	-5.31	6.61	-8.26	-.63
464								-.000420	-11.57	9.41	-13.12	12.00	-13.19	4.25
465								-.000410	-5.46	9.41	-11.64	16.65	-16.51	8.82
466								-.000400	-.30	-2.11	-4.20	10.15	-13.56	9.19
467								-.000390	-1.04	-10.53	-2.14	-1.81	-9.58	.33
468								-.000380	-7.08	-9.05	-8.99	-4.77	-10.47	-11.12
469								-.000370	-7.67	-2.33	-10.32	4.61	-13.04	-10.67

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
411	-10.76	4.98	-5.90	-1.66	-7.45	2.03	-.000950	7.44	6.58	-6.76	4.02	-8.03	1.78	
412	-11.64	1.66	-4.57	.55	-5.01	4.39	-.000940	8.25	8.73	-7.35	5.13	-7.08	2.20	
413	-11.72	-.92	-2.88	2.40	-2.66	3.58	-.000930	9.43	10.57	-7.74	6.51	-5.75	1.68	
414	-11.94	-1.37	-2.36	.11	-1.55	2.77	-.000920	9.36	9.91	-7.74	5.82	-5.28	.50	
415	-11.79	1.44	-2.36	-2.77	-4.28	2.40	-.000910	9.43	7.62	-6.44	5.25	-6.14	.36	
416	-13.19	2.55	-3.98	-2.77	-5.53	4.10	-.000900	10.46	6.73	-6.73	4.66	-7.57	1.29	
417	-12.31	2.47	-3.76	-.11	-5.31	3.43	-.000890	12.23	8.36	-8.11	5.55	-7.13	1.93	
418	-11.20	1.73	-3.39	-.41	-4.13	3.21	-.000880	11.27	8.65	-9.61	6.21	-6.24	1.51	
419	-10.47	3.65	-3.17	-2.03	-5.53	3.43	-.000870	11.34	6.81	-8.65	6.73	-6.39	1.68	
420	-11.35	5.21	-3.61	-3.29	-5.46	3.73	-.000860	11.49	3.56	-8.16	5.99	-6.81	1.88	
421	-10.02	6.31	-1.99	-1.81	-4.28	.48	-.000850	10.31	2.30	-8.06	6.09	-5.43	1.66	
422	-9.58	5.13	-4.06	-1.96	-2.14	-2.25	-.000840	8.99	3.78	-8.45	6.21	-5.26	.31	
423	-8.99	4.10	-5.68	.48	-2.36	-3.66	-.000830	8.03	3.70	-7.84	6.24	-5.68	.31	
424	-11.50	3.29	-5.75	2.77	-2.36	-2.25	-.000820	8.84	2.60	-8.38	4.98	-6.54	1.27	
425	-11.64	4.47	-3.17	3.21	-4.43	-2.40	-.000810	8.99	3.93	-7.42	5.67	-6.41	1.76	
426	-11.20	4.25	-4.28	.04	-5.16	-2.99	-.000800	8.18	5.26	-6.86	6.83	-6.88	.43	
427	-10.02	4.10	-4.43	-.11	-4.94	-2.55	-.000790	8.40	4.81	-7.22	7.67	-6.46	.48	
428	-12.60	2.18	-4.72	1.29	-3.39	-.63	-.000780	8.03	1.71	-9.51	6.61	-6.91	.95	
429	-13.71	2.25	-5.01	1.59	-4.28	-1.22	-.000770	9.13	1.86	-10.05	6.85	-7.67	.87	
430	-13.12	1.22	-7.59	-1.37	-4.43	-.70	-.000760	8.55	2.89	-9.09	6.13	-8.38	-.28	
431	-10.98	.85	-5.53	-1.15	-4.50	.11	-.000750	8.62	4.59	-8.38	6.63	-7.00	-.06	
432	-11.64	-.48	-3.84	.26	-2.14	2.99	-.000740	7.66	4.81	-9.14	7.49	-5.87	.92	
433	-11.79	1.59	-2.80	1.00	-3.47	3.21	-.000730	7.37	5.26	-8.87	7.57	-6.02	1.93	
434	-12.68	2.25	-2.95	-.63	-5.46	2.77	-.000720	8.10	6.44	-8.97	7.77	-7.03	1.46	
435	-11.50	1.73	-2.07	-1.22	-7.00	1.44	-.000710	9.28	5.85	-8.72	7.89	-6.86	.65	
436	-11.28	-.78	-2.44	-.63	-4.87	2.62	-.000700	10.61	4.96	-8.75	7.42	-6.19	.40	
437	-10.47	-.92	-2.22	.26	-3.47	1.44	-.000690	11.71	4.44	-8.23	7.45	-5.38	.26	
438	-11.13	-.78	-2.66	-1.22	-2.29	.26	-.000680	10.61	4.07	-9.26	7.42	-5.36	-.58	
439	-10.54	-.85	-1.48	-2.55	-3.03	-.92	-.000670	8.40	4.96	-10.17	7.42	-5.01	-1.44	
440	-10.76	-1.96	-.67	-2.77	-2.80	.77	-.000660	7.81	6.07	-9.68	6.78	-4.74	-1.32	
441	-9.66	-1.66	.22	-1.74	-4.13	.18	-.000650	9.87	6.14	-6.71	7.00	-4.52	-1.07	
442	-9.36	-.78	-.89	-6.09	-3.91	-2.11	-.000640	10.17	5.11	-5.53	6.46	-4.72	-2.99	
443	-9.14	.33	-1.33	-11.26	-3.54	-3.66	-.000630	8.10	3.93	-6.49	6.02	-4.67	-4.86	
444	-11.87	-.63	-1.04	-10.53	-3.54	-1.88	-.000620	7.81	5.40	-8.30	5.48	-5.48	-4.35	
445	-12.01	-.48	-.15	-2.03	-4.87	-.33	-.000610	9.36	7.69	-8.21	5.94	-5.68	-.95	
446	-10.76	-1.88	-2.88	1.51	-4.57	-.48	-.000600	10.90	8.51	-7.96	5.13	-6.07	-.28	
447	-9.36	-1.29	-5.16	-.11	-4.57	-2.25	-.000590	10.46	7.91	-7.86	4.91	-6.36	-1.22	
448	-12.82	.33	-6.34	-3.95	-5.46	-2.18	-.000580	7.66	7.03	-8.84	5.01	-8.21	-1.93	
449	-13.49	2.84	-4.13	-6.76	-7.08	-.78	-.000570	6.78	8.65	-8.53	6.29	-8.23	-1.56	
450	-12.38	2.77	-2.36	-8.90	-4.87	.85	-.000560	7.37	9.24	-9.21	5.55	-6.54	-1.76	
451	-10.02	3.21	-1.63	-4.40	-3.47	-.04	-.000550	10.31	9.10	-9.09	4.17	-5.04	-.41	
452	-11.35	2.62	-3.54	2.92	-3.10	-1.07	-.000540	11.05	7.18	-9.41	4.15	-6.00	1.49	
453	-11.50	2.92	-2.66	7.94	-4.43	-.78	-.000530	10.02	5.40	-10.00	9.22	-6.19	3.36	
454	-11.35	2.77	-4.72	4.47	-3.84	1.66	-.000520	8.69	4.81	-10.71	14.86	-6.63	2.96	
455	-9.80	4.69	-6.27	-.48	-4.57	.55	-.000510	8.25	4.44	-7.64	13.38	-6.88	1.59	
456	-10.47	5.87	-5.09	-2.77	-2.73	.40	-.000500	8.99	5.55	-5.01	3.29	-6.09	1.17	
457	-10.69	6.31	-2.29	-2.84	-2.73	-1.22	-.000490	9.58	7.03	-5.85	-1.52	-5.24	.75	
458	-10.61	3.21	-4.35	-7.42	-2.44	-2.40	-.000480	8.69	6.88	-8.80	6.66	-5.80	-2.20	
459	-10.32	1.66	-5.60	-12.52	-3.61	-5.36	-.000470	7.07	4.66	-9.19	17.64	-6.51	-5.41	
460	-12.53	1.88	-2.73	-12.74	-.82	-4.54	-.000460	7.51	2.60	-7.69	17.83	-5.36	-5.13	
461	-12.97	3.95	.51	-6.98	-.01	-5.73	-.000450	9.65	4.37	-4.67	9.41	-4.15	-2.92	
462	-12.60	3.65	-1.85	-1.15	-.82	-10.38	-.000440	11.79	6.73	-4.30	1.81	-5.09	-2.62	
463	-9.36	1.73	-5.16	4.54	-2.22	-15.10	-.000430	11.20	5.33	-7.72	2.96	-5.58	-2.94	
464	-8.84	-3.29	-7.74	9.34	-.45	-11.26	-.000420	11.12	2.89	-12.63	6.55	-5.68	-1.74	
465	-9.88	-8.61	-6.78	9.86	-.67	-4.91	-.000410	10.68	.75	-11.20	11.63	-5.78	-1.22	
466	-11.87	-12.00	-5.46	5.28	-1.33	-.85	-.000400	11.20	1.93	-6.02	5.75	-6.22	-2.52	
467	-11.05	-10.45	-2.80	6.83	-2.44	-2.84	-.000390	11.49	4.66	-4.25	-4.00	-5.43	-2.16	
468	-12.68	-7.28	-2.80	11.63	-2.14	-6.98	-.000380	9.58	5.18	-8.84	-8.31	-5.87	-.88	
469	-13.49	-2.33	-2.80	13.92	-1.70	-10.45	-.000370	9.87	6.58	-10.34	-2.80	-6.00	.38	

	AC	AD	AE	AF	AG	AH
411	0.00406	-6.04567862	-5.1616993	-12.01253891	-11.7178793	-2.87808609
412	0.00407	-7.37164736	-6.19300842	-9.65526104	-11.93887424	-2.36243153
413	0.00408	-4.27771997	-6.19300842	-8.84494591	-11.79154396	-2.36243153
414	0.00409	-3.68840051	-7.37164736	-9.13960648	-13.19117832	-3.98306036
415	0.0041	-5.89834881	-8.55028629	-9.87625599	-12.30719852	-3.76206541
416	0.00411	-8.03463173	-9.43426609	-11.34955406	-11.20222473	-3.39374065
417	0.00412	-7.4453125	-7.37164736	-11.12855911	-10.46557522	-3.17274594
418	0.00413	-7.66630745	-6.48766804	-10.31824493	-11.34955406	-3.6147356
419	0.00414	-7.15065289	-7.00332308	-10.02358532	-10.02358532	-1.99410689
420	0.00415	-6.11934376	-9.43426609	-9.80259037	-9.58159542	-4.05672503
421	0.00416	-4.57237959	-9.36060143	-9.58159542	-8.99227619	-5.67735386
422	0.00417	-6.19300842	-9.21327114	-9.7289257	-11.49688435	-5.751019
423	0.00418	-6.04567862	-6.92965794	-9.28693581	-11.64421368	-3.17274594
424	0.00419	-4.94070435	-7.96096706	-7.66630745	-11.20222473	-4.27771997
425	0.0042	-3.90939546	-9.21327114	-8.55028629	-10.02358532	-4.42504978
426	0.00421	-5.3090291	-11.12855911	-12.08620358	-12.60185814	-4.71970987
427	0.00422	-5.97201347	-9.7289257	-14.44348145	-13.70683289	-5.01436949
428	0.00423	-5.45635891	-8.84494591	-12.97018337	-13.1175127	-7.59264231
429	0.00424	-5.23536444	-8.69761658	-11.20222473	-10.98122978	-5.53002405
430	0.00425	-6.11934376	-9.87625599	-11.42321968	-11.64421368	-3.83573031
431	0.00426	-6.63499832	-7.96096706	-12.01253891	-11.79154396	-2.80442119
432	0.00427	-7.73997211	-7.81363726	-11.34955406	-12.67552376	-2.95175099
433	0.00428	-6.04567862	-8.62395191	-11.49688435	-11.49688435	-2.06777191
434	0.00429	-4.42504978	-10.02358532	-11.79154396	-11.2758894	-2.43609643
435	0.0043	-4.05672503	-8.10829735	-12.52819347	-10.46557522	-2.21510172
436	0.00431	-6.48766804	-7.96096706	-13.33850765	-11.12855911	-2.65709138
437	0.00432	-6.85599279	-9.06594086	-14.59081173	-10.53923988	-1.47845232
438	0.00433	-5.1616993	-9.43426609	-14.44348145	-10.76023483	-0.66813797
439	0.00434	-2.87808609	-5.53002405	-11.7178793	-9.65526104	0.21584135
440	0.00435	-3.4674058	-3.83573031	-9.28693581	-9.36060143	-0.88913274
441	0.00436	-3.90939546	-5.89834881	-9.65526104	-9.13960648	-1.3311224
442	0.00437	-4.35138512	-9.06594086	-11.49688435	-11.86520863	-1.03646266
443	0.00438	-4.20405531	-7.81363726	-12.60185814	-12.01253891	-0.15248336
444	0.00439	-5.01436949	-6.34033823	-12.52819347	-10.76023483	-2.87808609
445	0.0044	-4.13039017	-7.37164736	-12.08620358	-9.36060143	-5.1616993
446	0.00441	-3.39374065	-10.02358532	-13.1175127	-12.82285309	-6.34033823
447	0.00442	-2.50976157	-9.13960648	-13.92782688	-13.48583794	-4.13039017
448	0.00443	-4.86703968	-8.99227619	-13.78049755	-12.38086319	-2.36243153
449	0.00444	-5.53002405	-7.66630745	-14.07515717	-10.02358532	-1.62578213
450	0.00445	-5.751019	-8.77128124	-13.70683289	-11.34955406	-3.5410707
451	0.00446	-7.4453125	-9.87625599	-12.67552376	-11.49688435	-2.65709138
452	0.00447	-7.96096706	-11.49688435	-12.67552376	-11.34955406	-4.71970987
453	0.00448	-3.4674058	-7.66630745	-11.79154396	-9.80259037	-6.26667356
454	0.00449	-1.47845232	-5.1616993	-8.40295696	-10.46557522	-5.08803463
455	0.0045	-4.79337454	-6.34033823	-6.41400337	-10.68657017	-2.28876662
456	0.00451	-8.47662163	-9.94992065	-7.96096706	-10.61290455	-4.35138512
457	0.00452	-6.11934376	-9.94992065	-11.49688435	-10.31824493	-5.60368919
458	0.00453	-2.14143682	-7.81363726	-13.1175127	-12.52819347	-2.73075628
459	0.00454	-0.00515347	-2.87808609	-11.12855911	-12.97018337	0.51050109
460	0.00455	-4.35138512	-0.88913274	-7.66630745	-12.60185814	-1.84677696
461	0.00456	-9.58159542	-5.3090291	-8.25562668	-9.36060143	-5.1616993
462	0.00457	-11.57054901	-13.1175127	-13.19117832	-8.84494591	-7.73997211
463	0.00458	-5.45635891	-11.64421368	-16.5060997	-9.87625599	-6.78232813
464	0.00459	-0.29981324	-4.20405531	-13.5595026	-11.86520863	-5.45635891
465	0.0046	-1.03646266	-2.14143682	-9.58159542	-11.05489445	-2.80442119
466	0.00461	-7.07698774	-8.99227619	-10.46557522	-12.67552376	-2.80442119
467	0.00462	-7.66630745	-10.31824493	-13.04384804	-13.48583794	-2.80442119
468	0.00463	-5.67735386	-6.85599279	-12.23353386	-13.1175127	-4.71970987
469	0.00464	-3.98306036	-4.94070435	-7.96096706	-9.94992065	-6.34033823

	AI	AJ	AK	AL	AM	AN
411	-2.65709138	6.68232441	6.0914855	6.75617933	-0.92472512	2.39874315
412	-1.55211723	4.83595324	6.16534042	6.46075964	-1.36785424	0.10924275
413	-4.27771997	4.39282417	7.71629238	3.65427542	1.43862998	-2.77109623
414	-5.53002405	2.9157269	8.38098621	2.69416237	2.54645276	-2.77109623
415	-5.3090291	2.54645276	8.15942097	5.94377565	2.47259784	-0.11232179
416	-4.13039017	3.28500128	6.9038887	8.45484066	1.73404944	-0.40774119
417	-5.53002405	5.86992073	7.64243746	6.68232441	3.65427542	-2.03254795
418	-5.45635891	4.61438847	8.23327637	5.13137245	5.20522738	-3.28808022
419	-4.27771997	3.06343675	8.52869511	6.68232441	6.31305027	-1.8109833
420	-2.14143682	3.21114635	6.75617933	8.67640495	5.13137245	-1.95869303
421	-2.36243153	3.94969487	6.9038887	7.86400175	4.09740448	0.478517
422	-2.36243153	1.73404944	7.49472761	5.72221136	3.28500128	2.76801729
423	-4.42504978	0.92164612	10.00579262	6.0914855	4.46667862	3.21114635
424	-5.1616993	2.69416237	8.97182465	8.8241148	4.24511433	0.03538791
425	-4.94070435	6.01763058	8.52869511	8.45484066	4.09740448	-0.11232179
426	-3.39374065	6.16534042	7.79014683	5.86992073	2.17717862	1.29092038
427	-4.27771997	6.16534042	8.23327637	6.16534042	2.25103331	1.58633971
428	-4.42504978	7.1993084	8.08556652	9.11953449	1.21706545	-1.36785424
429	-4.49871492	7.79014683	7.93785667	10.15350246	0.84779125	-1.14628971
430	-2.14143682	4.98366261	7.64243746	9.85808277	-0.48159602	0.25695246
431	-3.4674058	3.65427542	9.04567909	10.00579262	1.58633971	0.99550092
432	-5.45635891	4.1712594	8.67640495	10.4489212	2.25103331	-0.62930572
433	-7.00332308	6.75617933	8.97182465	7.93785667	1.73404944	-1.22014451
434	-4.86703968	6.83003378	9.19338894	6.23919535	-0.77701545	-0.62930572
435	-3.4674058	6.01763058	9.85808277	6.46075964	-0.92472512	0.25695246
436	-2.28876662	5.42679167	8.97182465	7.86400175	-0.77701545	-1.22014451
437	-3.02541614	6.16534042	8.23327637	7.86400175	-0.85087025	-2.5495317
438	-2.80442119	5.42679167	7.64243746	7.27316332	-1.95869303	-2.77109623
439	-4.13039017	5.50064659	7.79014683	7.71629238	-1.66327357	-1.7371285
440	-3.90939546	5.42679167	6.75617933	7.1993084	-0.77701545	-6.09456444
441	-3.5410707	5.13137245	6.16534042	6.75617933	0.3308073	-11.2644043
442	-3.5410707	3.65427542	5.50064659	7.27316332	-0.62930572	-10.52585506
443	-4.86703968	3.3588562	6.97774363	7.49472761	-0.48159602	-2.03254795
444	-4.57237959	3.06343675	6.60846949	5.72221136	-1.8848381	1.51248491
445	-4.57237959	2.9157269	6.97774363	4.83595324	-1.29399931	-0.11232179
446	-5.45635891	1.21706545	8.23327637	5.57450151	0.3308073	-3.95277381
447	-7.07698774	1.73404944	11.03976059	6.0914855	2.84187222	-6.75925827
448	-4.86703968	1.21706545	9.19338894	6.23919535	2.76801729	-8.90104866
449	-3.4674058	0.70008153	5.94377565	5.86992073	3.21114635	-4.39590311
450	-3.09908104	4.39282417	3.94969487	4.09740448	2.62030768	2.9157269
451	-4.42504978	12.07372856	11.18747044	4.39282417	2.9157269	7.93785667
452	-3.83573031	12.07372856	19.8284874	12.66456699	2.76801729	4.46667862
453	-4.57237959	0.77393639	18.86837387	20.49318123	4.68824339	-0.48159602
454	-2.73075628	-8.31021023	5.20522738	12.95998669	5.86992073	-2.77109623
455	-2.73075628	-3.87891912	0.70008153	-1.36785424	6.31305027	-2.84495115
456	-2.43609643	6.31305027	12.07372856	1.58633971	3.21114635	-7.42395163
457	-3.6147356	13.18155098	22.04413223	17.68669701	1.66019464	-12.51993656
458	-0.81546783	12.3691473	17.39127731	23.74279404	1.88175917	-12.74150085
459	-0.00515347	7.1993084	8.8979702	12.14758301	3.94969487	-6.98082256
460	-0.81546783	0.55237186	4.09740448	0.77393639	3.65427542	-1.14628971
461	-2.21510172	2.9157269	6.60846949	-0.62930572	1.73404944	4.54053354
462	-0.44714311	9.41495323	11.99987316	4.24511433	-3.28808022	9.34109879
463	-0.66813797	9.41495323	16.65272903	8.8241148	-8.60562897	9.85808277
464	-1.3311224	-2.10640264	10.15350246	9.19338894	-12.00295258	5.2790823
465	-2.43609643	-10.52585506	-1.8109833	0.3308073	-10.45200062	6.83003378
466	-2.14143682	-9.04875851	-4.76517725	-11.11669445	-7.27624226	11.63059902
467	-1.69944715	-2.32796717	4.61438847	-10.67356491	-2.32796717	13.92009926
468	0.28950629	-4.54361248	6.46075964	-2.992661	-1.22014451	9.71037292
469	-0.29981324	-6.5376935	-3.14037061	-3.36193514	-0.62930572	4.1712594

	AO	AP	AQ	AR	AS	AT
411	3.58042073	9.42945576	10.57314968	-7.73997211	-5.751019	6.50999641
412	2.76801729	9.35579109	9.90845585	-7.73997211	-5.28447437	5.82068443
413	2.39874315	9.42945576	7.61895609	-6.4385581	-6.14389849	5.25446415
414	4.09740448	10.46076488	6.73269796	-6.73321819	-7.56808758	4.66362524
415	3.43271089	12.22872353	8.35750484	-8.10829735	-7.12609768	5.54988289
416	3.21114635	11.27107906	8.65292358	-9.60615063	-6.24211836	6.21457672
417	3.43271089	11.34474373	6.80655241	-8.64850616	-6.38944817	6.73156071
418	3.72813034	11.49207401	3.55693913	-8.15740681	-6.80688286	5.99301243
419	0.478517	10.3134346	2.30140686	-8.05918694	-5.43180418	6.0914855
420	-2.25411248	8.98746586	3.77850389	-8.45206642	-5.25991917	6.21457672
421	-3.65735459	8.0298214	3.70464897	-7.83819199	-5.67735386	6.23919487
422	-2.25411248	8.84013653	2.59682631	-8.37840176	-6.53677845	4.98366261
423	-2.40182209	8.98746586	3.9262135	-7.42075729	-6.41400337	5.67297459
424	-2.992661	8.17715168	5.25560093	-6.85599279	-6.880548	6.83003378
425	-2.5495317	8.39814663	4.81247187	-7.22431755	-6.46311331	7.66705561
426	-0.62930572	8.0298214	1.71056807	-9.50793076	-6.90510273	6.60846949
427	-1.22014451	9.13479614	1.85827768	-10.04814053	-7.66630745	6.8546524
428	-0.70316058	8.54547596	2.89224553	-9.09049606	-8.37840176	8.13480282
429	0.10924275	8.61914158	4.5909071	-8.37840176	-7.00332308	8.62716866
430	2.98958182	7.66149712	4.81247187	-9.13960648	-5.8737936	7.49472761
431	3.21114635	7.36683702	5.25560093	-8.86950111	-6.02112389	7.56858253
432	2.76801729	8.10348701	6.43727827	-8.96772099	-7.02787781	7.76552868
433	1.43862998	9.28212547	5.84643936	-8.72217178	-6.85599327	7.88862038
434	2.62030768	10.60809422	4.96018124	-8.74672604	-6.19300842	7.42087269
435	1.43862998	11.71306896	4.44319725	-8.23107147	-5.38269424	7.44549084
436	0.25695246	10.60809422	4.07392311	-9.2623806	-5.35813904	7.42087269
437	-0.92472512	8.39814663	4.96018124	-10.1709156	-5.01436949	7.42087269
438	0.77393639	7.80882692	6.06800413	-9.67981529	-4.7442646	6.78079748
439	0.1830976	9.87144566	6.14185905	-6.70866299	-4.52327013	7.00236177
440	-2.10640264	10.16610527	5.10789108	-5.53002405	-4.71970987	6.46075964
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442	-1.8848381	7.80882692	5.4033103	-8.30473709	-5.48091412	5.47602844
443	-0.33388633	9.35579109	7.69281054	-8.20651722	-5.67735386	5.94377565
444	-0.48159602	10.90275478	8.50521374	-7.96096706	-6.07023335	5.13137245
445	-2.25411248	10.46076488	7.91437531	-7.86274719	-6.36489344	4.90980816
446	-2.18025756	7.66149712	7.02811718	-8.84494591	-8.20651627	5.00828123
447	-0.77701545	6.7775178	8.65292358	-8.52573204	-8.23107147	6.28843164
448	0.84779125	7.36683702	9.24376297	-9.21327114	-6.53677797	5.54988337
449	-0.03846694	10.3134346	9.09605312	-9.09049606	-5.03892422	4.1712594
450	-1.07243478	11.05008411	7.17582703	-9.40971088	-5.99656868	4.14664125
451	-0.77701545	10.01877499	5.4033103	-9.99903107	-6.19300842	9.21800804
452	1.66019464	8.69280624	4.81247187	-10.71112537	-6.63499832	14.85559464
453	0.55237186	8.25081635	4.44319725	-7.64175224	-6.880548	13.37849712
454	0.40466216	8.98746586	5.55102015	-5.01436949	-6.09478855	3.28500128
455	-1.22014451	9.57678509	7.02811718	-5.84923887	-5.23536444	-1.51556396
456	-2.40182209	8.69280624	6.88040733	-8.79583645	-5.80012894	6.65770626
457	-5.35601616	7.07217741	4.66476202	-9.18871593	-6.51222324	17.63746071
458	-4.54361248	7.51416731	2.59682631	-7.69086218	-5.35813904	17.8344059
459	-5.7252903	9.65045071	4.3693428	-4.67059946	-4.15494537	9.41495419
460	-10.37814617	11.78673363	6.73269796	-4.30227518	-5.08803415	1.80790424
461	-15.10485649	11.1974144	5.32945538	-7.71541691	-5.57913399	2.96496344
462	-11.2644043	11.12374878	2.89224553	-12.62641335	-5.67735386	8.55331326
463	-4.9128871	10.68175983	0.75045496	-11.20222378	-5.77557421	11.63059902
464	-0.85087025	11.1974144	1.9321326	-6.02112389	-6.21756315	5.74682951
465	-2.84495115	11.49207401	4.66476202	-4.25316477	-5.43180418	-4.00201035
466	-6.98082256	9.57678509	5.18174601	-8.84494591	-5.87379408	-8.31021023
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468	-9.86116219	11.27107906	7.02811718	-8.25562668	-5.84923887	-0.35850462
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437	-1.44170904
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440	-2.99266076
441	-4.86365032
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
470								-.000360	-5.68	-4.54	-6.86	6.46	-12.23	-2.99
471								-.000350	-3.98	-6.54	-4.94	-3.14	-7.96	-3.36
472								-.000340	-4.13	-1.81	-7.81	-12.08	-6.49	-13.63
473								-.000330	-1.55	2.69	-6.05	-10.23	-6.49	-15.10
474								-.000320	.29	-7.50	-2.51	-7.79	-7.00	-3.73
475								-.000310	-3.54	-18.50	-1.40	-5.36	-7.22	3.95
476								-.000300	-9.73	-10.60	-7.67	-.92	-7.30	-.41
477								-.000290	-6.41	4.32	-11.79	6.98	-7.96	-2.11
478								-.000280	3.09	2.25	-10.17	7.64	-7.00	4.69
479								-.000270	8.54	-10.90	-4.57	5.13	-5.38	6.53
480								-.000260	2.65	-17.25	-2.88	.33	-3.84	-.19
481								-.000250	-6.63	-8.68	-4.13	-7.57	-5.31	-5.06
482								-.000240	-9.43	6.46	-7.52	-10.53	-8.55	2.18
483								-.000230	-2.80	16.21	-7.96	2.77	-13.71	16.73
484								-.000220	4.41	12.81	-7.00	15.91	-15.77	23.45
485								-.000210	3.53	5.13	-6.78	10.23	-11.64	11.34
486								-.000200	-7.22	2.99	-10.10	-3.73	-5.60	-9.42
487								-.000190	-14.96	8.97	-11.94	-2.03	-7.67	-22.05
488								-.000180	-13.49	14.14	-12.38	10.30	-15.77	-18.35
489								-.000170	-5.97	13.99	-11.50	17.98	-18.42	-3.44
490								-.000160	-3.69	9.41	-10.02	13.70	-14.89	10.30
491								-.000150	-6.19	7.49	-5.60	8.82	-15.03	12.37
492								-.000140	-10.91	5.13	-7.37	11.04	-17.83	7.57
493								-.000130	-10.98	4.10	-14.37	23.45	-16.06	9.27
494								-.000120	-8.55	5.43	-17.61	34.97	-11.13	16.95
495								-.000110	-3.98	7.05	-9.88	29.36	-8.26	20.86
496								-.000100	2.06	-2.70	-1.55	7.27	-7.67	20.86
497								-.000090	12.37	-16.43	3.53	.40	-5.31	21.38
498								-.000080	20.92	-13.78	6.11	18.57	2.50	20.35
499								-.000070	23.42	7.79	13.48	33.34	12.96	20.12
500								-.000060	26.07	23.00	23.27	18.57	22.83	30.02
501								-.000050	37.56	21.31	36.39	3.36	29.83	41.91
502								-.000040	51.78	17.39	47.95	18.65	39.63	37.78
503								-.000030	62.17	23.23	56.57	46.19	56.05	23.67
504								-.000020	69.98	30.54	66.81	51.66	76.97	26.99
505								-.000010	84.56	39.40	87.80	40.06	93.11	48.56
506								.000000	106.51	45.01	111.08	35.12	102.83	65.99
507								.000010	130.82	42.28	124.93	39.84	114.03	67.54
508								.000020	149.76	35.49	129.87	40.29	131.41	61.41
509								.000030	165.08	37.92	141.28	35.56	147.18	54.17
510								.000040	175.39	43.68	158.96	34.75	155.28	51.22
511								.000050	185.48	46.93	169.57	47.38	162.35	54.02
512								.000060	195.94	52.18	173.70	64.36	177.90	60.67
513								.000070	208.17	66.36	194.18	75.59	205.23	77.58
514								.000080	225.11	77.80	230.93	78.99	234.69	100.99
515								.000090	255.17	77.80	263.27	83.71	255.17	113.40
516								.000100	288.39	76.70	276.31	92.06	271.08	110.82
517								.000110	306.59	93.61	286.40	100.85	288.47	102.92
518								.000120	315.28	116.95	303.35	98.26	304.08	99.37
519								.000130	337.82	122.49	321.47	86.00	316.02	100.92
520								.000140	368.32	113.11	331.56	81.94	334.21	100.48
521								.000150	385.26	117.39	350.42	94.50	365.23	102.03
522								.000160	385.85	132.16	380.92	120.12	395.72	114.51
523								.000170	393.81	136.74	409.42	142.35	405.96	137.70
524								.000180	422.68	134.60	425.12	146.49	407.29	159.41
525								.000190	459.37	136.59	441.54	140.06	427.84	161.85
526								.000200	477.79	135.26	460.40	137.33	462.91	150.55
527								.000210	481.84	132.46	478.15	150.33	477.20	148.34
528								.000220	493.62	143.83	495.02	166.13	475.35	162.66

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
470	-13.12	-1.22	-4.72	9.71	.29	-9.86	-.000360	11.27	7.03	-8.26	-.36	-5.85	-.46	
471	-9.95	-.63	-6.34	4.17	-.30	-7.35	-.000350	14.00	5.55	-5.63	-4.35	-5.53	-1.27	
472	-9.43	1.00	-6.34	-2.11	-1.63	-3.58	-.000340	13.33	.90	-6.14	-9.17	-5.80	-1.56	
473	-7.59	7.27	-3.54	-3.73	-1.92	.92	-.000330	10.83	.38	-4.70	-7.55	-4.35	1.49	
474	-5.90	9.27	-4.43	-1.22	-1.55	3.65	-.000320	8.91	5.99	-3.07	-6.34	-3.96	3.90	
475	-6.27	7.49	-5.60	2.25	-4.43	1.07	-.000310	8.62	10.50	-4.06	-6.64	-5.43	3.61	
476	-9.51	5.13	-5.53	1.44	-4.43	-.78	-.000300	9.50	9.83	-8.23	-3.98	-6.49	1.93	
477	-10.61	7.94	-2.51	1.59	-2.07	-.56	-.000290	9.95	6.29	-8.72	3.06	-5.06	2.99	
478	-12.38	9.12	-2.22	-.48	1.17	.33	-.000280	9.36	5.40	-4.70	4.86	-4.47	2.99	
479	-13.26	8.09	-2.66	-1.96	-.15	-3.44	-.000270	9.28	7.62	-.47	.26	-5.36	.90	
480	-12.53	5.57	-3.10	-.63	-.01	-5.65	-.000260	7.96	7.62	-1.36	-5.70	-5.21	-.24	
481	-10.76	1.51	-2.95	4.84	-1.63	-6.17	-.000250	7.66	5.85	-5.36	-7.10	-5.11	.06	
482	-11.35	-3.36	-3.84	6.24	-2.29	1.07	-.000240	7.00	3.26	-8.50	-.63	-5.82	1.32	
483	-12.60	-3.36	-4.28	4.98	-5.46	9.78	-.000230	7.37	1.12	-8.16	11.90	-7.45	3.80	
484	-16.21	-.04	-6.34	5.80	-6.78	15.03	-.000220	9.72	3.48	-6.12	17.39	-9.78	6.93	
485	-18.72	2.32	-6.19	9.12	-6.05	12.59	-.000210	10.83	9.98	-4.97	8.90	-10.32	8.01	
486	-19.45	.11	-5.60	9.27	-3.25	9.34	-.000200	14.81	21.80	-7.64	-3.39	-9.43	6.24	
487	-18.64	-3.14	-5.82	6.24	-3.25	8.23	-.000190	20.92	30.37	-11.52	-5.04	-9.24	3.78	
488	-18.35	-6.69	-7.96	.11	-4.20	9.56	-.000180	23.28	27.78	-13.88	2.03	-10.17	1.00	
489	-15.11	-8.01	-4.94	-1.81	-3.25	9.19	-.000170	18.42	16.63	-11.96	9.51	-7.76	-.21	
490	-12.23	-8.38	-1.92	2.18	-1.33	6.61	-.000160	12.08	7.91	-9.53	11.14	-5.16	.13	
491	-9.51	-5.80	-2.73	8.97	-2.58	.40	-.000150	11.20	12.35	-8.94	9.56	-4.94	1.19	
492	-9.36	-3.95	-5.90	7.20	-2.95	-4.62	-.000140	13.70	22.32	-12.04	7.91	-6.07	-.46	
493	-7.81	1.07	-4.57	3.43	-2.29	-7.13	-.000130	16.57	22.39	-13.81	12.27	-4.89	-.88	
494	-7.45	6.53	-3.25	2.69	-.08	-5.36	-.000120	19.74	10.13	-12.43	19.11	-3.59	1.29	
495	-5.16	13.11	-1.11	5.57	2.50	-3.44	-.000110	24.02	-.21	-7.37	19.09	-1.26	5.08	
496	-2.07	15.18	1.91	10.82	6.62	.55	-.000100	27.11	.01	-2.39	8.48	2.16	8.85	
497	3.46	16.36	6.40	21.45	10.16	4.69	-.000090	26.81	5.70	3.53	1.78	6.67	14.17	
498	6.77	19.31	8.10	29.95	13.70	6.90	-.000080	28.58	11.68	9.84	8.38	9.52	18.72	
499	10.46	27.14	12.96	32.09	17.16	4.54	-.000070	35.21	22.09	16.62	20.42	13.52	21.26	
500	16.57	31.42	22.09	29.06	24.45	6.61	-.000060	42.65	37.68	24.06	23.87	21.04	22.36	
501	27.40	30.61	34.99	28.25	32.41	13.92	-.000050	47.96	46.76	34.59	22.19	31.60	24.26	
502	38.74	28.91	46.85	32.01	44.05	23.89	-.000040	53.04	43.81	46.45	24.60	43.21	28.27	
503	51.27	34.53	61.87	40.21	57.31	27.73	-.000030	62.84	43.44	58.26	31.03	56.82	34.16	
504	65.92	39.70	78.96	43.91	76.90	30.83	-.000020	78.23	56.22	71.25	36.40	73.93	38.14	
505	85.30	37.04	96.79	43.39	97.90	34.01	-.000010	99.01	69.14	88.49	42.67	93.33	38.14	
506	102.98	33.64	108.60	43.76	114.18	36.37	.000000	130.39	74.53	106.81	48.71	108.65	37.92	
507	111.01	41.91	115.60	48.41	118.74	34.75	.000010	166.78	75.34	123.26	49.89	115.18	41.69	
508	112.11	55.28	124.49	50.18	121.69	39.18	.000020	194.84	77.49	137.01	45.73	119.43	48.21	
509	119.92	64.58	139.00	53.73	129.94	51.22	.000030	203.76	74.09	151.18	42.55	129.62	56.51	
510	132.15	67.46	149.90	59.49	142.54	63.18	.000040	203.46	66.85	163.21	43.22	141.53	63.38	
511	143.94	69.53	158.67	60.67	154.18	67.83	.000050	205.30	70.03	172.47	49.44	152.26	66.01	
512	159.04	71.97	177.38	56.83	171.78	70.79	.000060	208.18	90.48	182.51	59.07	169.40	66.53	
513	190.20	77.95	212.15	66.14	200.58	79.65	.000070	215.10	118.25	202.52	73.18	200.98	74.58	
514	226.96	85.49	247.21	85.85	238.82	95.75	.000080	246.04	131.55	230.25	85.93	237.66	89.03	
515	256.64	91.62	272.85	103.28	271.97	106.09	.000090	311.53	130.37	257.87	91.64	267.15	100.33	
516	278.37	94.35	290.62	110.89	295.54	108.23	.000100	388.21	132.58	278.60	93.19	288.25	104.49	
517	302.46	101.59	308.21	118.57	314.40	109.27	.000110	446.12	139.97	293.82	99.12	308.36	109.81	
518	325.67	111.33	326.55	127.44	336.79	119.75	.000120	488.10	147.65	307.57	104.86	329.67	119.51	
519	347.55	119.90	350.35	133.34	356.46	131.13	.000130	527.37	152.82	325.10	103.80	351.45	128.12	
520	368.76	124.78	376.35	132.90	373.33	139.69	.000140	563.76	161.31	344.70	98.51	372.81	132.46	
521	390.42	132.31	402.57	130.83	391.89	143.39	.000150	593.15	180.14	366.97	104.64	394.96	135.51	
522	408.84	140.66	430.57	127.73	422.17	140.43	.000160	618.86	212.94	387.50	122.27	420.52	136.27	
523	432.04	149.44	461.43	130.54	457.68	128.03	.000170	663.21	256.21	403.06	138.93	450.38	136.00	
524	462.68	160.00	490.16	141.17	491.49	127.88	.000180	746.82	293.44	418.36	146.83	481.44	143.02	
525	500.92	175.96	526.85	159.49	519.33	153.28	.000190	837.72	296.83	442.92	146.17	515.70	162.91	
526	543.35	192.06	572.22	181.50	552.85	188.22	.000200	889.58	265.74	467.03	141.05	556.14	187.26	
527	582.61	202.77	603.97	205.43	591.45	199.37	.000210	918.16	236.27	479.06	143.71	592.68	202.52	
528	605.82	207.94	608.17	224.78	623.35	190.80	.000220	981.44	250.01	488.00	157.54	612.45	207.84	

	AC	AD	AE	AF	AG	AH
470	0.00465	-4.13039017	-7.81363726	-6.48766804	-9.43426609	-6.34033823
471	0.00466	-1.55211723	-6.04567862	-6.48766804	-7.59264231	-3.5410707
472	0.00467	0.28950629	-2.50976157	-7.00332308	-5.89834881	-4.42504978
473	0.00468	-3.5410707	-1.4047873	-7.22431755	-6.26667356	-5.60368919
474	0.00469	-9.7289257	-7.66630745	-7.29798269	-9.50793076	-5.53002405
475	0.0047	-6.41400337	-11.79154396	-7.96096706	-10.61290455	-2.50976157
476	0.00471	3.08877397	-10.1709156	-7.00332308	-12.38086319	-2.21510172
477	0.00472	8.53997993	-4.57237959	-5.38269424	-13.26484299	-2.65709138
478	0.00473	2.64678431	-2.87808609	-3.83573031	-12.52619347	-3.09908104
479	0.00474	-6.63499832	-4.13039017	-5.3090291	-10.76023483	-2.95175099
480	0.00475	-9.43426609	-7.51897764	-8.55028629	-11.34955406	-3.83573031
481	0.00476	-2.80442119	-7.96096706	-13.70683289	-12.60185814	-4.27771997
482	0.00477	4.41474295	-7.00332308	-15.76945114	-16.21144104	-6.34033823
483	0.00478	3.53076363	-6.78232813	-11.64421368	-18.71604919	-6.19300842
484	0.00479	-7.22431755	-10.09724998	-5.60368919	-19.45269775	-5.60368919
485	0.0048	-14.95913601	-11.93887424	-7.66630745	-18.64238358	-5.82468367
486	0.00481	-13.48583794	-12.38086319	-15.76945114	-18.34772301	-7.96096706
487	0.00482	-5.97201347	-11.49688435	-18.42138863	-15.10646629	-4.94070435
488	0.00483	-3.68840051	-10.02358532	-14.88547134	-12.23353386	-1.92044199
489	0.00484	-6.19300842	-5.60368919	-15.03280163	-9.50793076	-2.73075628
490	0.00485	-10.90756512	-7.37164736	-17.8320694	-9.36060143	-5.89834881
491	0.00486	-10.98122978	-14.36981678	-16.0641098	-7.81363726	-4.57237959
492	0.00487	-8.55028629	-17.61107445	-11.12855911	-7.4453125	-3.24641085
493	0.00488	-3.98306036	-9.87625599	-8.25562668	-5.1616993	-1.11012757
494	0.00489	2.05746484	-1.55211723	-7.66630745	-2.06777191	1.91013503
495	0.0049	12.37055683	3.53076363	-5.3090291	3.45709872	6.40369654
496	0.00491	20.91568947	6.10903645	2.4994545	6.77202129	8.09799004
497	0.00492	23.42029762	13.47553062	12.95987606	10.45526791	12.95987606
498	0.00493	26.07223511	23.27296829	22.83097839	16.56945801	22.09432793
499	0.00494	37.56396484	36.38532639	29.62914734	27.3982048	34.98569489
500	0.00495	51.78129959	47.95072174	39.6265831	38.74260712	46.8457489
501	0.00496	62.16805649	56.56952286	56.05386734	51.26564407	61.87339783
502	0.00497	69.97653961	66.8089447	76.97470856	65.9249649	78.96366119
503	0.00498	84.56220245	87.80345917	93.10733032	85.29885101	96.79058075
504	0.00499	106.5143509	111.0815811	102.8311005	102.9784317	108.797966
505	0.005	130.8237763	124.9305878	114.0281754	111.0079117	115.796135
506	0.00501	149.7556763	129.6661346	131.4131012	112.1128845	124.4885941
507	0.00502	165.0779724	141.2642102	147.1773987	119.9213715	139.0005951
508	0.00503	175.3910675	158.9637909	155.2805481	132.1497498	149.9029999
509	0.00504	185.4831696	169.5715332	162.3523712	143.936142	158.6691284
510	0.00505	195.9435883	173.6967773	177.8956757	159.0374603	177.3800201
511	0.00506	208.1719666	194.1756287	205.2253723	190.1977234	212.1498718
512	0.00507	225.1148987	230.934433	234.6913452	226.9565277	247.214386
513	0.00508	255.1701965	263.273346	255.1701965	256.6434937	272.8497925
514	0.00509	288.3930969	276.3120422	271.0818176	278.3746643	290.8240356
515	0.0051	306.5883179	286.4041443	288.4667664	302.4631043	308.2089539
516	0.00511	315.2807922	303.3470764	304.0837097	325.6675415	326.5515442
517	0.00512	337.8222656	321.4686585	316.0174561	347.546051	350.3453064
518	0.00513	368.3195496	331.5607605	334.212677	368.7615356	376.3490295
519	0.00514	385.2624817	350.4189758	365.2256165	390.4190369	402.573761
520	0.00515	385.8518066	380.9162598	395.7229004	408.8352661	430.5664368
521	0.00516	393.8076172	409.4245911	405.9623413	432.0397339	461.4320374
522	0.00517	422.6842651	425.1152344	407.2882996	462.6843262	490.161377
523	0.00518	459.3694153	441.542511	427.8408203	500.9164429	526.8464966
524	0.00519	477.7856445	460.4007263	462.9053345	543.3474731	572.2241211
525	0.0052	481.8372192	478.1539917	477.1963196	582.6108398	603.9736939
526	0.00521	493.6236267	495.0232544	475.3547058	605.8153076	608.1726074
527	0.00522	518.0067139	516.3861084	492.1503296	624.157898	612.5186599
528	0.00523	537.6752319	533.918335	529.6667603	658.1911011	645.7416992

	AI	AJ	AK	AL	AM	AN
470	-1.62578213	-1.8109833	-12.07680702	-13.62775898	0.99550092	-2.10640264
471	-1.92044199	2.69416237	-10.23043633	-15.10485649	7.27316332	-3.73120928
472	-1.55211723	-7.49780655	-7.79322624	-3.73120928	9.26724434	-1.22014451
473	-4.42504978	-18.50217819	-5.35601616	3.94969487	7.49472761	2.25103331
474	-4.42504978	-10.59971046	-0.92472512	-0.40774119	5.13137245	1.43862998
475	-2.06777191	4.31896925	6.97774363	-2.10640264	7.93785667	1.58633971
476	1.17348564	2.25103331	7.64243746	4.68824339	9.11953449	-0.48159602
477	-0.15248336	-10.89513016	5.13137245	6.53461456	8.08556652	-1.95869303
478	-0.00515347	-17.24664688	0.3308073	-0.18617664	5.57450151	-0.62930572
479	-1.62578213	-8.67948437	-7.57166147	-5.06059647	1.51248491	4.83595324
480	-2.28876662	6.46075964	-10.52585506	2.17717862	-3.36193514	6.23919535
481	-5.45635891	16.20960045	2.76801729	16.72658348	-3.36193514	4.98366261
482	-6.78232813	12.81227684	15.91418076	23.44737434	-0.03846694	5.79606628
483	-6.04567862	5.13137245	10.22735691	11.33517933	2.32488823	9.11953449
484	-3.24641085	2.98958182	-3.73120928	-9.41803265	0.10924275	9.26724434
485	-3.24641085	8.97182465	-2.03254795	-22.0472126	-3.14037061	6.23919535
486	-4.20405531	14.14166355	10.30121231	-18.3544693	-6.68540335	0.10924275
487	-3.24641085	13.99395466	17.9821167	-3.43579006	-8.01479053	-1.8109833
488	-1.3311224	9.41495323	13.69853497	10.30121231	-8.38406467	2.17717862
489	-2.58342648	7.49472761	8.8241148	12.3691473	-5.79914522	8.97182465
490	-2.95175099	5.13137245	11.03976059	7.56858253	-3.95277381	7.1993084
491	-2.28876662	4.09740448	23.44737434	9.26724434	1.06935585	3.43271089
492	-0.07881841	5.42679167	34.96873093	16.94814873	6.53461456	2.69416237
493	2.4994545	7.05159855	29.35576248	20.86245537	13.10769653	5.57450151
494	6.62469101	-2.69724154	7.27316332	20.86245537	15.17563152	10.8181963
495	10.16060829	-16.43424416	0.40466216	21.3794384	16.35730934	21.45329475
496	13.69652557	-13.77546883	18.57295418	20.34547043	19.31150436	29.94660187
497	17.15877724	7.79014683	33.34392548	20.12390709	27.14011765	32.08839417
498	24.45160675	23.00424576	18.57295418	30.02045631	31.42369843	29.06034279
499	32.40742111	21.30558395	3.3588562	41.91108704	30.6112957	28.24794006
500	44.04648209	17.39127731	18.64681053	37.77521515	28.9126339	32.01453781
501	57.30617142	23.225811	46.19466782	23.66893959	34.52560043	40.21242523
502	76.90104675	30.53744125	51.65992737	26.99240685	39.6954422	43.90516663
503	97.89555359	39.4000206	40.06471634	48.55802536	37.03666687	43.38818359
504	114.1755066	45.01298904	35.11643982	65.98777008	33.63934326	43.75745773
505	118.7427292	42.28036118	39.84315109	67.53871918	41.91108704	48.41031265
506	121.6893311	35.48571396	40.28628159	61.4087677	55.27881622	50.18283081
507	129.9398041	37.92292404	35.55957031	54.1709938	64.58452606	53.72786331
508	142.5365143	43.68360519	34.74716568	51.21679688	67.46486664	59.48854065
509	154.1755676	46.93321609	47.37634659	54.0232811	69.53279877	60.67021942
510	171.7814941	52.1769104	64.36296082	60.67021942	71.97000885	56.82976532
511	200.5844879	66.35704041	75.58889771	77.58297729	77.95225525	66.13547516
512	238.8165894	77.80454254	78.98622131	100.9949646	85.48545074	85.85472107
513	271.9658203	77.80454254	83.71292877	113.4025803	91.61540222	103.2844696
514	295.5385742	76.69672394	92.05853271	110.8176575	94.34803009	110.8915176
515	314.3968201	93.60948181	100.8472595	102.9151917	101.5858078	118.5724182
516	336.7909546	116.9476166	98.26233673	99.37016296	111.3346481	127.4350052
517	356.4595032	122.4867249	87.99651337	100.9211121	119.9018097	133.3433838
518	373.3287659	113.1071625	81.94041443	100.4779816	124.7762299	132.9002533
519	391.892334	117.3907394	94.4957428	102.0289307	132.3094177	130.8323212
520	422.1686096	132.1617127	120.1233749	114.5104065	140.655014	127.730423
521	457.6751099	136.7407074	142.3536835	137.7008209	149.4437408	130.536911
522	491.4873352	134.5989227	146.4895477	159.4141541	160.0049896	141.1719971
523	519.3327026	136.5930023	140.0641785	161.8513641	175.9576416	159.4880066
524	552.8502197	135.2636108	137.3315582	150.5515747	192.0579987	181.4967499
525	591.4506836	132.4571381	150.3300018	148.3359222	202.7669525	205.4257202
526	623.3475952	143.83078	166.1349487	162.6637573	207.9367828	224.7756958
527	643.0897827	170.1231079	168.1290283	178.4687042	214.4360199	236.4447632
528	666.8098755	181.644455	155.7952576	187.8482666	216.4241791	237.1833038

	AO	AP	AQ	AR	AS	AT
470	-3.58349967	13.33369732	0.89816469	-6.14389849	-5.80012894	-9.1718502
471	0.92164612	10.82908916	0.38118073	-4.69515467	-4.35138512	-7.54704332
472	3.65427542	8.91380119	5.99414921	-3.07452607	-3.95850515	-6.34074736
473	1.06935585	8.61914158	10.49929523	-4.05672503	-5.43180418	-6.63616657
474	-0.77701545	9.50312042	9.8346014	-8.23107147	-6.48766804	-3.9773922
475	-0.55545086	9.94511032	6.28956842	-8.72217178	-5.06347942	3.06343675
476	0.3308073	9.35579109	5.4033103	-4.69515514	-4.47415972	4.86057138
477	-3.43579006	9.28212547	7.61895609	-0.47169796	-5.35813904	0.25695229
478	-5.65143538	7.95615673	7.61895609	-1.35567737	-5.21080923	-5.70067215
479	-6.16841936	7.66149712	5.84643936	-5.35813904	-5.11258936	-7.10391426
480	1.06935585	6.99851274	3.26151991	-8.50117683	-5.82468367	-0.6293056
481	9.78422832	7.36683702	1.11972928	-8.15740681	-7.4453125	11.90140057
482	15.02792263	9.72411537	3.48308444	-6.11934376	-9.77803612	17.39127731
483	12.59071255	10.82908916	9.98231125	-4.96525955	-10.31824493	8.89796925
484	9.34109879	14.80699635	21.79908752	-7.64175224	-9.43426609	-3.38655329
485	8.23327637	20.92118645	30.36624908	-11.52143955	-9.23782635	-5.03597879
486	9.56266308	23.27846527	27.78133011	-13.87871742	-10.1709156	2.02946877
487	9.19338894	18.41657829	16.62924767	-11.9634285	-7.76452732	9.51342678
488	6.60846949	12.08139324	7.91437531	-9.53248596	-5.1616993	11.13823318
489	0.40466216	11.1974144	12.34566593	-8.94316673	-4.94070435	9.56266308
490	-4.6174674	13.70202255	22.31607056	-12.03709412	-6.07023382	7.91323853
491	-7.12853241	16.57495499	22.389925	-13.8050518	-4.89159441	12.27067471
492	-5.35601616	19.74254799	10.1300211	-12.4299736	-3.59018064	19.11455727
493	-3.43579006	24.01511383	-0.20965806	-7.37164783	-1.25745749	19.08993912
494	0.55237186	27.10904121	0.0119065	-2.38698673	2.15568471	8.47945881
495	4.68824339	26.81438255	5.69872999	3.53076386	6.67380142	1.7832855
496	6.9038887	28.58234024	11.68097305	9.84139347	9.52217865	8.38098526
497	4.54053354	35.21218491	22.09450722	16.61856842	13.52464008	20.41932678
498	6.60846949	42.65234375	37.67787933	24.05872726	21.03846359	23.86588478
499	13.92009926	47.95621872	46.76202393	34.59281158	31.59710693	22.19184303
500	23.89050484	53.03910065	43.80783081	46.45286942	43.2116127	24.60443497
501	27.73095703	62.83653641	43.43855667	58.26381683	56.81507111	31.02980614
502	30.83285904	78.23251343	56.21544647	71.25339508	73.92989349	36.39659119
503	34.0086174	99.00602722	69.14004517	88.49099731	93.32833099	42.67425537
504	36.37197495	130.3872833	74.53144836	106.8090134	108.6506348	48.70573425
505	34.74716568	166.777771	75.34384918	123.260849	115.1822586	49.88740921
506	39.17845917	194.8441162	77.48564148	137.0116425	119.4302673	45.72692108
507	51.21679688	203.7575684	74.08831787	151.1798554	129.6205902	42.55116272
508	63.18128204	203.4629059	66.85054779	163.2118073	141.5297546	43.21585464
509	67.83413696	205.3045349	70.02630615	172.4690247	152.2602844	49.44428253
510	70.78833008	208.1774597	90.48409271	182.5120087	169.3996582	59.07003021
511	79.65091705	215.1019745	118.2535172	202.5243225	200.977356	73.17630768
512	95.75127411	246.0412445	131.5473938	230.2468872	237.6625061	85.92857361
513	106.09095	311.5293884	130.3657074	257.8712463	267.1530457	91.64001465
514	108.2327423	388.2145691	132.5813599	278.5956421	288.2457581	93.19097137
515	109.2667084	446.1152344	139.9668427	293.8197327	308.3562927	99.12397766
516	119.754097	488.1042481	147.6477509	307.5705261	329.6700134	104.8600388
517	131.1277466	527.3676758	152.8175812	325.1027832	351.4502869	103.8014526
518	139.6949005	563.7581177	161.3108978	344.6976624	372.8131104	98.50852203
519	143.3876495	593.1504517	180.1438751	366.9690247	394.9617004	104.6384735
520	140.4334564	618.8594971	212.9354401	387.4969788	420.5234375	122.2651672
521	128.0258484	663.2058106	256.214386	403.0648499	450.3822937	138.9317322
522	127.8781281	746.8154907	293.4372253	418.3626099	481.4443359	146.8342133
523	153.284195	837.7180786	296.8345337	442.917572	515.6985474	146.1695099
524	188.2175446	889.578186	265.7416382	467.0305786	556.140625	141.0489197
525	199.3696289	918.1601563	236.2735748	479.0625	592.6784058	143.7076874
526	190.8024597	981.4383545	250.0105743	488.0005188	612.4451904	157.5431671
527	187.5528565	1071.972534	290.5568848	508.8477173	626.5888672	172.2402802
528	199.517334	1137.828979	319.0648499	533.8201294	656.9142456	175.095993

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470	-1.5648005
471	1.48786676
472	3.90045834
473	3.60503888
474	1.9309957
475	2.98958182
476	2.98958182
477	0.89702779
478	-0.23541319
479	0.06000626
480	1.31553864
481	3.80198526
482	6.92850733
483	8.01171207
484	6.23919535
485	3.77736712
486	0.9955008
487	-0.21079497
488	0.13386114
489	1.19244719
490	-0.45697761
491	-0.87548858
492	1.29092026
493	5.08213615
494	8.84873295
495	14.16628265
496	18.72066498
497	21.25634766
498	22.36417007
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507	56.50972748
508	63.37823105
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521	136.0021668
522	143.0183716
523	162.9099426
524	187.257431
525	202.5207672
526	207.8383179
527	212.8112183
528	218.374939

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
529								.000230	516.01	170.12	516.39	168.13	492.15	178.47
530								.000240	537.68	181.64	533.92	155.80	529.87	187.85
531								.000250	549.24	175.00	544.16	149.15	555.72	183.27
532								.000260	560.59	169.53	555.13	153.80	562.21	165.91
533								.000270	577.53	174.11	571.19	156.68	565.45	151.07
534								.000280	590.35	172.56	582.91	149.44	574.43	150.63
535								.000290	598.82	163.33	591.08	144.57	586.96	160.30
536								.000300	604.27	160.15	598.15	152.40	587.03	169.16
537								.000310	614.51	174.11	597.86	170.86	570.75	176.40
538								.000320	634.77	184.60	590.64	182.24	559.85	186.96
539								.000330	650.01	175.15	591.52	176.55	563.97	194.42
540								.000340	631.38	158.82	598.23	162.44	574.43	191.69
541								.000350	589.02	159.78	601.54	163.55	587.55	187.41
542								.000360	570.01	178.69	599.77	171.90	600.81	188.37
543								.000370	598.89	199.81	607.14	174.92	605.59	188.14
544								.000380	640.44	210.82	617.75	174.78	609.35	183.20
545								.000390	648.91	211.85	616.72	176.25	614.66	178.91
546								.000400	619.66	207.79	603.16	176.33	611.56	183.86
547								.000410	594.54	209.71	598.30	184.67	600.51	197.01
548								.000420	597.93	214.66	602.80	200.55	596.83	207.49
549								.000430	613.99	206.68	607.58	211.48	600.22	208.82
550								.000440	614.80	180.61	607.29	208.60	601.98	199.89
551								.000450	606.11	164.66	610.53	205.06	603.31	184.89
552								.000460	602.28	173.23	618.12	204.39	610.97	183.42
553								.000470	604.93	193.98	620.40	197.38	622.46	198.11
554								.000480	601.98	207.20	608.91	182.53	631.23	205.57
555								.000490	590.71	212.22	590.64	172.63	622.68	193.24
556								.000500	570.60	212.29	577.16	166.28	594.99	181.79
557								.000510	553.88	211.04	571.19	153.43	567.58	180.83
558								.000520	547.18	200.18	563.97	147.01	559.70	178.54
559								.000530	549.61	185.41	550.12	164.88	562.35	169.16
560								.000540	546.66	176.18	530.60	189.62	559.26	167.10
561								.000550	533.62	182.38	512.11	196.64	539.66	182.97
562								.000560	513.00	196.71	501.36	184.89	508.58	202.18
563								.000570	492.37	204.10	501.51	182.38	479.70	210.96
564								.000580	472.41	194.94	497.53	196.93	455.17	214.58
565								.000590	460.62	179.28	478.96	207.94	433.14	221.82
566								.000600	467.03	170.12	450.53	196.05	426.22	227.73
567								.000610	477.64	173.00	434.84	178.99	441.17	222.49
568								.000620	467.91	176.33	435.58	175.74	455.83	213.11
569								.000630	449.35	177.07	436.98	189.40	445.23	216.21
570								.000640	438.89	180.17	421.65	205.20	416.86	225.81
571								.000650	432.48	191.39	400.00	210.82	394.10	222.78
572								.000660	420.18	191.91	387.47	202.18	391.74	208.75
573								.000670	408.69	169.31	387.47	193.54	398.01	194.94
574								.000680	397.49	152.25	388.80	193.76	402.50	196.12
575								.000690	387.10	178.03	379.22	203.36	402.35	213.85
576								.000700	375.69	223.52	361.84	212.52	393.59	233.64
577								.000710	367.44	243.98	349.17	214.44	373.33	233.56
578								.000720	360.29	232.75	337.67	204.98	356.53	214.88
579								.000730	352.56	217.61	322.79	192.43	342.98	192.57
580								.000740	347.40	208.53	310.27	189.55	321.17	180.46
581								.000750	346.28	204.91	308.06	197.15	292.74	185.85
582								.000760	335.98	204.39	311.23	203.36	277.27	201.29
583								.000770	312.33	211.04	315.28	206.98	277.86	205.87
584								.000780	290.68	214.14	320.29	206.16	275.80	199.15
585								.000790	277.93	208.53	316.53	195.68	258.56	197.82
586								.000800	267.69	193.90	288.47	177.07	244.93	203.65
587								.000810	257.16	172.93	251.34	167.76	245.45	202.32

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
529	624.16	214.44	612.52	236.44	643.09	187.55	.000230	1071.97	290.56	508.85	172.24	626.59	212.81	
530	658.19	218.42	645.74	237.18	666.81	199.52	.000240	1137.83	319.06	533.82	175.10	656.91	218.37	
531	704.89	216.06	703.42	226.33	700.70	210.08	.000250	1172.23	335.53	549.71	169.14	703.00	217.49	
532	740.70	210.74	756.75	208.01	751.82	211.19	.000260	1220.63	365.08	559.31	163.08	749.76	209.98	
533	765.15	210.00	781.58	197.89	802.80	203.87	.000270	1304.83	392.70	571.39	160.62	783.18	203.92	
534	789.68	207.35	777.31	201.73	827.77	201.66	.000280	1403.69	386.35	582.56	157.54	798.25	203.58	
535	799.19	205.13	771.41	218.65	821.29	212.66	.000290	1481.11	351.19	592.29	156.07	797.30	212.15	
536	782.32	213.33	780.11	237.33	811.93	234.67	.000300	1514.70	309.98	596.48	160.57	791.45	228.44	
537	783.86	238.07	805.45	256.75	820.03	256.61	.000310	1515.07	277.56	594.37	173.79	803.11	250.48	
538	821.95	261.56	830.79	271.90	841.62	275.07	.000320	1513.52	276.01	595.08	184.60	831.45	269.51	
539	854.58	274.33	844.78	277.43	861.21	282.97	.000330	1513.15	311.83	601.84	182.04	853.53	278.25	
540	846.70	279.80	844.27	268.05	874.32	281.13	.000340	1505.64	359.69	601.35	170.98	855.10	276.33	
541	831.01	284.45	845.08	252.47	880.73	276.77	.000350	1486.19	385.46	592.70	170.25	852.27	271.23	
542	845.30	282.01	858.12	240.43	888.54	272.19	.000360	1454.29	380.88	590.20	179.65	863.99	264.88	
543	883.46	276.33	879.48	244.20	898.63	266.13	.000370	1424.31	358.28	603.88	187.63	887.19	262.22	
544	907.47	277.51	886.77	260.15	907.25	272.78	.000380	1418.57	327.71	622.51	189.60	900.50	270.15	
545	906.81	287.70	884.12	275.14	905.78	288.59	.000390	1424.09	308.36	626.76	189.01	898.90	283.81	
546	899.00	291.39	884.12	271.90	902.83	291.69	.000400	1400.37	320.39	611.46	189.33	895.32	284.99	
547	897.82	279.35	884.71	255.57	901.21	270.79	.000410	1344.31	344.25	597.79	197.13	894.58	268.57	
548	889.87	258.90	875.26	239.55	897.68	249.22	.000420	1307.70	342.55	599.19	207.57	887.61	249.22	
549	869.54	247.67	865.41	229.43	881.17	239.25	.000430	1297.61	302.00	607.26	209.00	872.04	238.78	
550	850.82	245.38	858.93	216.80	857.16	234.08	.000440	1262.03	259.09	608.03	196.37	855.64	232.09	
551	845.37	239.10	852.15	201.29	838.45	220.34	.000450	1168.99	229.11	606.65	184.87	845.32	220.25	
552	836.39	221.75	836.09	193.17	832.48	204.39	.000460	1074.62	184.80	610.46	187.01	834.99	206.44	
553	806.77	203.06	814.21	197.67	821.73	193.39	.000470	1035.51	110.42	615.93	196.49	814.24	198.04	
554	760.59	188.22	789.09	202.18	792.78	189.18	.000480	1028.29	66.04	614.04	198.43	780.82	193.19	
555	732.52	175.51	756.68	194.57	755.28	180.32	.000490	999.19	106.73	601.35	192.70	748.16	183.47	
556	731.05	163.18	715.87	174.04	727.44	164.21	.000500	946.15	181.10	580.92	186.79	724.78	167.14	
557	723.38	159.93	685.67	162.00	703.94	148.78	.000510	908.14	188.05	564.22	181.77	704.33	156.90	
558	682.50	164.66	669.39	169.98	678.30	144.94	.000520	898.93	114.86	556.95	175.24	676.73	159.86	
559	630.79	173.52	653.77	184.67	647.07	147.52	.000530	894.96	53.63	554.03	173.15	643.98	168.57	
560	587.33	183.71	617.97	187.85	613.99	153.88	.000540	862.84	62.57	545.51	177.63	606.43	175.15	
561	555.94	196.71	571.93	189.84	580.77	165.77	.000550	799.78	84.43	528.47	187.33	569.55	184.11	
562	530.97	205.72	537.16	198.85	554.69	177.80	.000560	754.48	56.88	507.64	194.59	540.94	194.13	
563	514.03	210.37	517.12	207.35	530.09	179.06	.000570	751.38	22.98	491.19	199.15	520.41	198.93	
564	495.61	210.82	493.70	203.65	493.55	176.92	.000580	766.12	72.09	475.04	202.15	494.29	197.13	
565	471.60	213.40	467.03	196.64	446.04	179.72	.000590	777.31	166.78	457.58	203.01	461.55	196.59	
566	450.01	215.91	438.45	195.68	420.99	188.44	.000600	778.27	193.29	447.93	197.97	436.48	200.01	
567	443.24	215.62	408.47	206.31	427.77	195.31	.000610	754.18	151.93	451.22	191.49	426.49	205.75	
568	441.10	209.27	379.96	222.41	427.25	197.97	.000620	703.13	127.63	453.11	188.39	416.10	209.88	
569	436.68	213.03	364.66	233.34	380.84	195.23	.000630	645.31	137.46	443.85	194.22	394.13	213.87	
570	424.01	227.36	354.54	225.22	318.96	191.76	.000640	610.31	162.71	425.80	203.73	365.84	214.78	
571	399.85	235.71	337.67	209.12	281.39	186.37	.000650	592.05	190.41	408.86	208.33	339.64	210.40	
572	360.44	228.17	310.05	205.28	269.17	192.21	.000660	580.19	203.85	399.80	200.95	313.22	208.55	
573	320.07	215.47	283.60	217.24	253.25	212.89	.000670	580.33	188.19	398.06	185.93	285.64	215.20	
574	306.66	207.20	261.87	225.29	233.00	232.38	.000680	588.44	157.84	396.26	180.71	267.18	221.62	
575	321.32	204.61	241.91	221.08	222.76	232.60	.000690	584.16	137.31	389.56	198.41	262.00	219.43	
576	327.36	204.54	221.06	216.65	231.60	232.46	.000700	568.10	147.72	377.04	223.22	260.01	217.88	
577	302.46	214.66	204.12	224.70	241.69	249.81	.000710	556.02	207.54	363.31	230.66	249.42	229.72	
578	265.04	236.59	193.59	234.23	241.91	271.97	.000720	551.97	304.52	351.50	217.54	233.51	247.60	
579	245.30	250.92	195.21	231.50	234.18	272.34	.000730	539.67	370.02	339.44	200.87	224.89	251.59	
580	231.82	238.66	201.03	217.69	224.60	250.48	.000740	516.61	354.74	326.28	192.85	219.15	235.61	
581	204.64	215.47	197.42	209.64	210.23	220.05	.000750	498.34	263.38	316.36	195.97	204.10	215.05	
582	166.04	201.81	177.90	205.94	195.50	200.55	.000760	503.28	167.59	308.16	203.01	179.81	202.77	
583	137.38	203.58	167.07	206.90	185.48	202.32	.000770	511.09	138.56	301.82	207.96	163.31	204.27	
584	128.98	206.09	175.98	215.62	188.72	219.61	.000780	493.11	159.98	295.59	206.48	164.56	213.77	
585	139.00	202.47	188.06	224.92	206.40	225.07	.000790	460.33	160.13	284.34	200.67	177.82	217.49	
586	152.70	191.54	187.62	216.43	225.70	204.83	.000800	438.01	112.20	267.03	191.54	188.68	204.27	
587	163.09	180.91	189.09	198.04	225.34	174.55	.000810	419.74	49.27	251.32	181.00	192.51	184.50	

	AC	AD	AE	AF	AG	AH
529	0.00524	549.2406616	544.1577759	555.7231445	704.8946533	703.4213867
530	0.00525	560.585022	555.1338501	562.2056885	740.6958008	756.7547607
531	0.00526	577.5279541	571.1928101	565.4469605	765.1525879	781.579895
532	0.00527	590.3457031	582.9055176	574.434082	789.6829834	777.307312
533	0.00528	598.8171387	591.0823364	586.9570923	799.185791	771.4141235
534	0.00529	604.2683716	598.1541748	587.0307617	782.3165283	780.1065674
535	0.0053	614.5078125	597.8594971	570.7507935	783.8634644	805.4473267
536	0.00531	634.765625	590.6403198	559.8483887	821.9482422	830.7880249
537	0.00532	650.0142822	591.524292	563.9736328	854.5818481	844.7843628
538	0.00533	631.3770752	598.2278442	574.434082	846.699707	844.2687378
539	0.00534	589.0197144	601.5427246	587.5463867	831.0090332	845.0790405
540	0.00535	570.0141602	599.7747803	600.8060913	845.3000488	858.1177368
541	0.00536	598.8908081	607.1412964	605.5942993	883.4584961	879.4805908
542	0.00537	640.4378662	617.7490234	609.3512573	907.4732666	886.7733765
543	0.00538	648.9093018	616.7177124	614.6550903	906.8102417	884.12146
544	0.00539	619.6643066	603.1633911	611.5611572	899.00177	884.12146
545	0.0054	594.5445557	598.3015137	600.5114746	897.8231201	884.7108154
546	0.00541	597.9331665	602.795044	596.828186	889.8673096	875.2816773
547	0.00542	613.9921265	607.583252	600.2167969	869.5358276	865.4105835
548	0.00543	614.8024292	607.2886353	601.9847412	850.6248901	858.9280396
549	0.00544	606.1099854	610.5298462	603.31073	845.3737183	852.1508789
550	0.00545	602.279419	618.1173706	610.9718628	836.3865967	836.091919
551	0.00546	604.9313355	620.401001	622.4636231	806.7732544	814.2134399
552	0.00547	601.9847412	608.9092407	631.2297363	760.5853882	789.093689
553	0.00548	590.7139893	590.6403198	622.6845703	732.519043	756.6810913
554	0.00549	570.6034546	577.159668	594.9865723	731.0457153	715.8707275
555	0.0055	553.8815308	571.1928101	567.5831909	723.3845825	685.6680908
556	0.00551	547.1780396	563.9736328	559.7010498	682.5005493	669.3881836
557	0.00552	549.6089478	550.1246338	562.3530273	630.7877197	653.7711792
558	0.00553	546.6623535	530.6033936	559.2590942	587.3254395	617.9700317
559	0.00554	533.6236572	512.1135254	539.6641846	555.9441528	571.9294434
560	0.00555	512.9974976	501.358429	508.5776062	530.9717407	537.1596069
561	0.00556	492.3713074	501.5057678	479.7009277	514.0288086	517.1227417
562	0.00557	472.4081116	497.5278626	455.1705017	495.6125794	493.6972656
563	0.00558	460.6217346	478.9642944	433.1446838	471.5978088	467.0305786
564	0.00559	467.0305786	450.5296326	426.2201843	450.0139771	438.4485779
565	0.0056	477.6383362	434.8389893	441.1741638	443.2367859	408.4669495
566	0.00561	467.9145508	435.5756531	455.8334961	441.1005249	379.9586182
567	0.00562	449.3509827	436.9752808	445.2257385	436.680603	364.8572998
568	0.00563	438.890564	421.6529541	416.8647461	424.0102539	354.54422
569	0.00564	432.48172	399.9954834	394.1022949	399.6481445	337.6749268
570	0.00565	420.179657	387.4724426	391.7449951	360.4374085	310.0505676
571	0.00566	408.6879273	387.4724426	398.0065308	320.0690002	283.6048584
572	0.00567	397.4908752	388.7984009	402.5000916	306.6619873	261.8737183
573	0.00568	387.104126	379.2219544	402.3527527	321.3213196	241.9105072
574	0.00569	375.6860352	361.8370361	393.5866394	327.3618469	221.0633392
575	0.0057	367.4355774	349.1666565	373.3287659	302.4631043	204.1203919
576	0.00571	360.2900696	337.6749268	356.5331726	265.0412903	193.5863037
577	0.00572	352.5552673	322.7946167	342.9788208	245.2991028	195.2069397
578	0.00573	347.3987122	310.2715759	321.1739807	231.8184204	201.026474
579	0.00574	348.2826843	308.061615	292.7393189	204.6360474	197.4166854
580	0.00575	335.9806519	311.2292175	277.2696838	166.0356293	177.8956757
581	0.00576	312.334198	315.2807922	277.8590088	137.3799591	167.0669251
582	0.00577	290.6766968	320.2900085	275.7963867	128.9821625	175.9803925
583	0.00578	277.9326782	316.5331116	258.5587769	139.0005951	188.0614471
584	0.00579	267.6932373	288.4667664	244.9307709	152.7022705	187.6194458
585	0.0058	257.1591492	251.3396301	245.4464264	163.0890198	189.0927429
586	0.00581	246.3304138	229.0191498	245.3727722	165.0043182	197.7115479
587	0.00582	243.3101502	227.0301971	236.0173187	162.8680267	202.057785

	AI	AJ	AK	AL	AM	AN
529	700.6957398	174.9975281	149.1483307	183.2692719	216.0608215	226.3266449
530	751.8192139	169.5322723	153.801178	165.9133759	210.7432709	208.0106354
531	802.7953491	174.1112671	156.6815186	151.0685577	210.0047302	197.8925324
532	827.7677612	172.560318	149.4437408	150.6254273	207.3459473	201.7329865
533	821.2852783	163.3284607	144.5693207	160.300415	205.1303101	218.6457367
534	811.9298096	160.1526947	152.397934	169.1629944	213.328186	237.3310242
535	820.032959	174.1112671	170.8616486	176.4007721	238.0695648	256.7548523
536	841.6168213	184.5986481	182.2353058	186.9620056	261.5554199	271.8950806
537	861.2116699	175.1452332	176.5484772	194.4213562	274.3323059	277.4342041
538	874.3240356	158.8233185	162.4421997	191.6887207	279.7975464	268.0546265
539	880.7329102	159.783432	163.5500183	187.4051361	284.4504089	252.4712677
540	888.5413818	178.6902618	171.8956146	188.3652496	282.0132141	240.4329224
541	898.6334839	199.8127594	174.9236755	188.143692	276.3263855	244.1995239
542	907.2522583	210.8171234	174.7759552	183.1954193	277.5080566	260.1521606
543	905.7789307	211.8510895	176.2530518	178.9118347	287.7000122	275.1447144
544	902.8323364	207.7890778	176.3269043	183.8601074	291.3927612	271.8950806
545	901.211731	209.7093048	184.6725159	197.0062714	279.3544312	255.5731659
546	897.6758423	214.6575775	200.5513001	207.4936523	258.896637	239.5466614
547	881.1748657	206.6812592	211.4818268	208.8230438	247.6707001	229.4285431
548	857.1600952	180.6104889	208.6014862	199.8866119	245.3811951	216.7993622
549	838.4492188	164.6578522	205.0564423	184.8940735	239.1035309	201.289856
550	832.4823608	173.2250061	204.3917542	183.4169769	221.7476502	193.1658173
551	821.7272339	193.9782257	197.3755493	198.11409	203.0623627	197.6709595
552	792.7769165	207.1982422	182.5307159	205.5734253	188.2175446	202.1761017
553	755.2814941	212.2203674	172.6341705	193.2396698	175.5145111	194.5690613
554	727.4361572	212.29422	166.2826538	181.7921753	163.1807556	174.0374146
555	703.9370117	211.0386963	153.4319153	180.8320618	159.9311371	161.9990692
556	678.3016357	200.1820221	147.0065308	178.5425568	164.6578522	169.9753876
557	647.067688	185.4110565	164.8794098	169.1629944	173.5204315	184.6725159
558	613.9921265	176.1791992	189.6207886	167.0950623	183.7124023	187.8482666
559	580.7692261	182.3830109	196.6369934	182.9738464	196.710846	189.8423462
560	554.6918335	196.710846	184.8940735	202.1761017	205.7211456	198.8526459
561	530.0877686	204.0963287	182.3830109	210.9648285	210.3739929	207.3459473
562	493.5499573	194.9383392	196.9324188	214.583725	210.8171234	203.6532135
563	446.0360718	179.2811127	207.9367828	221.8215027	213.4020386	196.6369934
564	420.9899902	170.1231079	196.0461578	227.7298889	215.9131165	195.6768799
565	427.7671509	173.0034485	178.9856873	222.4861908	215.617691	206.3119812
566	427.2514954	176.3269043	175.7360687	213.1066284	209.2661743	222.4123383
567	380.8425903	177.0654602	189.3992157	216.2085266	213.0327759	233.3428497
568	318.9640503	180.1673584	205.2041626	225.8096619	227.360611	225.2188263
569	281.394928	191.3932953	210.8171234	222.7816162	235.7062073	209.1184692
570	269.1665344	191.9102783	202.1761017	208.7491913	228.1730194	205.2780151
571	253.2549133	169.3106995	193.5350952	194.9383392	215.469986	217.2424927
572	232.9970551	152.2502289	193.7566528	196.1200104	207.1982422	225.2926788
573	222.7576294	178.0255737	203.3577881	213.8451691	204.6133118	221.0829468
574	231.5974274	223.5201569	212.5157929	233.6382752	204.5394592	216.6516571
575	241.6895142	243.9779511	214.4360199	233.5644226	214.6575775	224.7018433
576	241.9105072	232.7520142	204.9825897	214.8791504	236.5924683	234.2291107
577	234.1756897	217.6117706	192.4272614	192.5749817	250.9203033	231.4964905
578	224.5992584	208.5276184	189.546936	180.4627838	238.6604004	217.6856232
579	210.2345886	204.9087372	197.1539764	185.854187	215.469986	209.6354523
580	195.5016022	204.3917542	203.3577881	201.289856	201.806839	205.9427033
581	185.4831696	211.0386963	206.9766693	205.8688507	203.5793457	206.9028168
582	188.7244263	214.1405945	206.1642761	199.148056	206.0904083	215.617691
583	206.404007	208.5276184	195.6768799	197.8186798	202.4715271	224.9234009
584	225.7042236	193.9043732	177.0654602	203.6532135	191.5410156	216.4300995
585	225.335907	172.929596	167.7597504	202.323822	180.9059143	198.0402374
586	210.3082581	155.5737	171.0093689	193.5350952	168.2767334	183.1215515
587	199.4795075	163.6977387	171.4524994	184.6725159	157.7893524	174.8498077

	AO	AP	AQ	AR	AS	AT
529	210.0785828	1172.230591	335.5344849	549.7072144	703.0039063	169.138382
530	211.1864014	1220.628418	365.076416	559.3081665	749.7565918	163.0822754
531	203.8747711	1304.827393	392.6981506	571.3892212	783.1759644	160.6204529
532	201.6591187	1403.685791	386.3466187	582.5617676	798.2526856	157.5431671
533	212.6634979	1481.107666	351.1917114	592.2855225	797.295044	156.0660706
534	234.6722412	1514.698853	309.9807129	596.484436	791.4509888	160.5712128
535	256.6071472	1515.067139	277.5584412	594.3726807	803.114563	173.7912293
536	275.0708313	1513.520264	276.0074768	595.0847778	831.4510498	184.5986481
537	282.9733276	1513.151855	311.8270874	601.8374023	853.5259399	182.0383606
538	281.1269531	1505.638062	359.6850281	601.3463135	855.0974731	170.9847412
539	276.7695007	1486.190552	385.4603577	592.7029419	852.2736816	170.2462006
540	272.1904907	1454.293579	380.8813477	590.1983643	863.9863892	179.6503754
541	266.1343994	1424.312012	358.2817688	603.8754883	887.1908569	187.626709
542	272.7813416	1418.566162	327.7058716	622.5126953	900.4996338	189.5961609
543	288.5862732	1424.090942	308.355896	626.7606812	898.9035645	189.0053253
544	291.6881714	1400.37085	320.3942261	611.4629517	895.3185425	189.3253632
545	270.787262	1344.31189	344.2493591	597.7858276	894.5819092	197.129364
546	249.2216492	1307.700317	342.5506897	599.1854858	887.6082764	207.5675049
547	239.251236	1297.608276	302.0043945	607.2640381	872.0404053	208.9953766
548	234.0814056	1262.028076	259.0947266	608.0252686	855.6376953	196.3661957
549	220.3444061	1168.989258	229.1096497	606.6502075	845.324585	184.8694611
550	204.3917542	1074.624512	184.7967377	610.4562378	834.9869385	187.0112457
551	193.3873749	1035.508423	110.4249039	615.9320068	814.2379761	196.4892883
552	189.1776581	1028.289307	66.03813934	614.0412598	780.8186646	198.4341278
553	180.3150787	999.1915894	106.7321625	601.3463135	748.1605225	192.6980743
554	164.2147217	946.152832	181.1039887	580.9165649	724.7841797	186.7896881
555	148.7790527	908.1417236	188.0463562	564.2191773	704.329895	181.7675629
556	144.9385986	898.9335938	114.8561935	556.9509277	676.7301025	175.2436981
557	147.5235138	894.9556885	53.6305275	554.0288696	643.8755493	173.1511536
558	153.8750305	862.8377686	62.5669632	545.5083008	606.4291992	177.6316834
559	165.7656708	799.7805786	84.4280014	528.4671021	569.5476074	187.3312836
560	177.8040161	754.4766846	56.8801384	507.6445007	540.94104	194.5936737
561	179.0595398	751.3827515	22.98076439	491.1926575	520.4130859	199.148056
562	176.9177551	766.1157227	72.09423828	475.0354919	494.2865906	202.1514893
563	179.7242279	777.3128052	166.7761536	457.5769043	461.5548096	203.0131378
564	188.4391022	778.2704468	193.2900391	447.9267883	436.4841919	197.9663849
565	195.3076019	754.1820068	151.9313355	451.2171631	426.4902954	191.4917755
566	197.9663849	703.1322022	127.6330872	453.1079102	416.1035461	188.3898621
567	195.2337494	645.3052368	137.45578	443.8506775	394.1268311	194.2243958
568	191.7625732	610.3143921	162.7141419	425.8027649	365.8395081	203.727066
569	186.37117	592.0454712	190.4097138	408.8598328	339.6393433	208.3306732
570	192.2057037	580.1854248	203.8512878	399.7990418	313.2181702	200.9451904
571	212.8850555	580.3327637	188.1940613	398.0556335	285.6429138	185.9280396
572	232.3827362	588.4359131	157.8397217	396.2631226	267.1775818	180.7089691
573	232.6043091	584.1633301	137.308075	389.5596008	261.9964905	198.4095154
574	232.456604	568.1043701	147.7216034	377.0365601	260.0075378	223.2247467
575	249.8124847	556.0233154	207.5440369	363.3103333	249.4243317	230.6594696
576	271.9689331	551.9717407	304.5154419	351.4993897	233.5126953	217.5379181
577	272.3382263	539.6696777	370.0246887	339.4429016	224.8939056	200.8713379
578	250.4771729	516.6125488	354.7367554	326.2814331	219.148056	192.8457794
579	220.0489807	498.3436585	263.3782959	316.3612061	204.0958405	195.9723053
580	200.5513001	503.2792053	167.588562	308.1598511	179.8109741	203.0131378
581	202.323822	511.0877075	138.5635986	301.8246765	163.3100128	207.9614105
582	219.6058502	493.1134644	159.9815064	295.5877075	164.5623322	206.484314
583	225.071106	460.3325501	160.1292114	284.3415222	177.8220215	200.6743927
584	204.8348846	438.012085	112.1974182	267.0302734	188.6753082	191.5410156
585	174.5543976	419.7431641	49.27309036	251.3150635	192.5058899	181.0043945
586	159.783432	394.770752	26.378088	240.2407837	191.0080414	173.3727264
587	157.2723541	370.9769898	55.3291893	235.4525604	188.1351013	173.2742462

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529	217.488678
530	209.9801025
531	203.9240112
532	203.5793457
533	212.1465149
534	228.4438171
535	250.4771881
536	269.5071106
537	278.2466126
538	276.3263855
539	271.2304077
540	264.8788757
541	262.2200928
542	270.1471863
543	283.8103333
544	284.9920044
545	268.5716248
546	249.2216492
547	238.783493
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551	198.0402374
552	193.1904297
553	183.466217
554	167.1443024
555	156.9030914
556	159.8572846
557	168.5721588
558	175.1452332
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572	221.6245575
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574	217.8825684
575	229.7239685
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580	202.7669525
581	204.2686615
582	213.7713165
583	217.488678
584	204.2686615
585	184.5001831
586	170.3939056
587	163.303833

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
588								.000820	246.33	155.57	229.02	171.01	245.37	193.54
589								.000830	243.31	163.70	227.03	171.45	236.02	184.67
590								.000840	243.75	192.43	232.26	161.33	227.25	180.32
591								.000850	234.54	211.19	236.68	161.26	227.84	182.16
592								.000860	215.69	192.35	229.53	174.11	237.34	192.87
593								.000870	209.72	154.02	215.02	180.61	243.24	205.72
594								.000880	211.19	135.56	205.23	169.31	234.10	209.86
595								.000890	203.31	149.59	206.40	152.10	217.16	200.99
596								.000900	191.82	161.11	210.53	143.24	211.04	185.56
597								.000910	196.46	153.73	213.03	148.11	217.53	170.34
598								.000920	204.64	138.07	212.37	151.88	219.88	163.77
599								.000930	200.95	128.17	206.63	139.69	205.74	163.70
600								.000940	189.02	128.69	194.76	124.48	186.07	164.81
601								.000950	182.98	144.86	178.19	126.40	172.52	161.48
602								.000960	176.94	149.30	155.35	121.75	167.36	152.99
603								.000970	159.85	124.55	129.13	82.09	157.20	133.12
604								.000980	124.93	88.88	100.84	26.70	131.41	98.04
605								.000990	92.81	71.60	71.67	-4.91	95.02	52.55
606								.001000	75.87	58.53	48.25	.26	65.78	23.74
607								.001010	78.45	52.40	41.17	37.04	50.31	38.00
608								.001020	95.91	79.13	59.37	85.19	57.82	88.44
609								.001030	121.84	133.93	104.30	129.50	93.18	142.87
610								.001040	134.43	158.45	146.81	160.97	132.89	182.38
611								.001050	129.65	141.32	155.35	175.74	145.11	212.96
612								.001060	126.11	143.54	134.95	179.58	139.07	239.99
613								.001070	136.19	195.16	120.07	193.83	143.79	254.61
614								.001080	160.73	262.37	129.35	223.45	170.46	270.05
615								.001090	189.98	306.90	158.89	256.24	202.21	296.71
616								.001100	220.03	313.77	187.18	273.96	219.88	316.36
617								.001110	239.70	306.02	198.89	277.80	217.45	314.44
618								.001120	240.44	311.48	197.49	285.78	207.95	309.56
619								.001130	229.53	334.38	201.10	309.41	203.16	321.08
620								.001140	217.90	346.93	215.39	327.58	207.95	337.77
621								.001150	214.95	331.72	223.64	312.96	211.12	329.21
622								.001160	213.62	302.99	211.41	274.18	204.27	301.66
623								.001170	205.52	285.34	193.29	246.27	189.17	283.27
624								.001180	187.77	274.41	184.82	248.41	175.91	288.00
625								.001190	176.50	263.48	182.98	271.16	168.39	301.29
626								.001200	173.62	250.11	178.12	281.72	167.44	297.52
627								.001210	168.91	231.42	167.66	255.35	167.66	264.95
628								.001220	149.02	205.94	152.63	213.25	165.96	228.84
629								.001230	124.71	197.67	137.97	191.54	159.92	215.99
630								.001240	109.53	209.86	128.61	190.36	152.11	223.89
631								.001250	105.78	220.79	121.32	187.85	138.56	229.06
632								.001260	97.90	204.83	105.26	178.84	115.80	216.73
633								.001270	79.85	162.00	81.91	170.27	87.29	191.84
634								.001280	62.54	125.81	60.40	164.81	65.48	171.53
635								.001290	57.16	129.50	45.23	160.37	54.51	163.77
636								.001300	54.88	145.75	33.81	152.77	47.95	159.49
637								.001310	50.38	135.04	31.38	145.53	39.04	149.30
638								.001320	45.45	110.01	36.83	139.92	32.63	139.47
639								.001330	41.25	109.34	43.60	136.67	29.46	133.05
640								.001340	27.55	121.60	44.27	134.23	32.11	128.40
641								.001350	10.31	116.36	45.23	133.12	35.21	117.54
642								.001360	10.01	95.83	47.73	128.32	33.88	104.10
643								.001370	29.98	86.74	45.81	117.98	28.50	92.13
644								.001380	42.87	89.18	38.89	106.90	27.99	88.00
645								.001390	42.72	84.97	38.01	99.30	27.18	82.09
646								.001400	40.51	67.32	45.89	92.21	24.23	70.35

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
588	165.00	168.28	197.71	183.12	210.31	159.78	.000820	394.77	26.38	240.24	173.37	191.01	170.39	
589	162.87	157.79	202.06	174.85	199.48	157.27	.000830	370.98	55.33	235.45	173.27	188.14	163.30	
590	161.54	149.96	194.91	165.32	200.44	155.65	.000840	363.76	77.34	234.42	178.03	185.63	156.98	
591	170.53	139.40	190.86	150.48	197.86	138.07	.000850	362.21	49.20	233.02	184.87	186.42	142.65	
592	184.30	121.75	195.35	123.08	191.23	108.60	.000860	369.80	43.44	227.52	186.45	190.30	117.81	
593	189.09	114.66	199.18	93.46	187.25	86.67	.000870	395.43	124.46	222.66	180.12	191.84	98.26	
594	178.93	127.95	183.13	77.21	186.07	86.81	.000880	429.47	253.41	216.84	171.58	182.71	97.33	
595	162.72	145.60	155.28	81.35	173.99	94.50	.000890	458.71	358.80	208.96	167.56	164.00	107.15	
596	144.97	132.16	130.16	77.58	147.10	89.84	.000900	489.43	410.05	204.46	163.30	140.74	99.86	
597	121.98	80.46	108.60	42.95	106.37	61.04	.000910	511.75	406.44	209.01	157.40	112.38	61.48	
598	92.81	23.82	83.31	-6.39	70.71	25.37	.000920	506.82	386.35	212.30	151.24	82.26	14.26	
599	68.13	-11.12	59.66	-31.57	57.75	11.85	.000930	479.12	395.28	204.44	143.86	61.85	-10.28	
600	60.47	-15.47	48.02	-6.91	71.23	36.67	.000940	459.01	436.12	189.95	139.33	59.91	4.76	
601	82.20	37.41	67.62	74.55	93.84	83.93	.000950	461.88	458.43	177.90	144.25	81.22	65.30	
602	127.44	140.43	118.01	177.95	121.10	140.73	.000960	476.02	445.36	166.55	141.34	122.18	153.04	
603	185.04	248.56	185.56	267.32	169.87	223.82	.000970	477.64	431.69	148.72	113.25	180.15	246.56	
604	246.48	337.18	250.09	334.45	246.63	343.61	.000980	468.29	443.07	119.06	71.21	247.73	338.41	
605	284.05	393.90	289.20	387.33	306.15	441.24	.000990	457.53	450.90	86.50	39.74	293.13	407.49	
606	275.80	412.07	288.17	426.47	315.94	473.00	.001000	447.66	425.34	63.30	27.51	293.30	437.18	
607	253.18	420.05	272.11	451.81	300.25	477.95	.001010	436.47	384.57	56.64	42.48	275.18	449.93	
608	251.78	437.99	268.72	455.06	297.60	502.32	.001020	427.18	364.12	71.03	84.25	272.70	465.12	
609	267.91	451.81	279.26	436.81	304.60	523.67	.001030	417.75	361.01	106.44	135.44	283.92	470.76	
610	274.25	434.38	283.09	408.67	303.49	504.76	.001040	410.68	353.78	138.04	167.27	286.94	449.27	
611	261.43	401.07	276.68	394.20	289.87	455.57	.001050	409.28	320.02	143.37	176.67	275.99	416.95	
612	234.99	386.81	265.41	399.81	276.39	428.39	.001060	419.60	273.87	133.38	187.70	258.93	405.01	
613	212.00	394.20	253.25	411.48	263.27	432.31	.001070	421.00	244.77	134.02	214.53	242.84	412.66	
614	198.01	389.18	236.61	400.33	247.80	431.64	.001080	401.33	245.87	153.51	251.95	227.47	407.05	
615	187.91	359.19	222.83	363.33	229.24	400.25	.001090	378.05	253.48	183.69	286.62	213.33	374.26	
616	173.70	318.13	211.93	326.18	216.72	359.56	.001100	376.06	242.33	209.03	301.36	200.78	334.62	
617	156.68	286.37	206.26	310.96	204.05	326.17	.001110	383.35	213.45	218.68	299.42	188.99	308.50	
618	141.65	271.01	200.58	301.29	188.43	308.60	.001120	380.55	184.65	215.29	302.27	176.89	293.63	
619	132.08	256.02	188.67	283.71	169.42	282.53	.001130	373.11	151.86	211.27	321.62	163.46	274.09	
620	124.64	223.15	166.99	266.43	151.74	244.86	.001140	381.66	115.74	213.75	337.43	147.79	244.81	
621	113.07	184.89	147.62	251.07	132.30	207.72	.001150	394.48	89.23	216.57	324.63	131.00	214.56	
622	96.13	165.54	135.02	220.79	114.62	189.47	.001160	398.09	94.10	209.77	292.94	115.26	191.93	
623	84.12	166.43	125.74	187.26	100.92	187.77	.001170	395.14	116.33	195.99	271.62	103.59	180.49	
624	79.26	168.20	110.79	170.86	91.19	185.12	.001180	400.44	129.18	182.83	270.27	93.75	174.73	
625	74.84	161.41	92.52	167.32	79.33	162.00	.001190	409.06	116.55	175.96	278.64	82.23	163.57	
626	68.65	145.31	74.54	152.03	69.90	131.64	.001200	408.18	86.50	173.06	276.45	71.03	142.99	
627	63.13	129.65	65.41	129.21	64.08	114.58	.001210	396.32	53.19	168.07	250.58	64.21	124.48	
628	53.62	121.53	66.00	119.61	60.47	112.81	.001220	384.75	44.55	155.87	216.01	60.03	117.98	
629	43.24	122.56	67.91	126.84	51.56	113.62	.001230	379.23	80.37	140.87	201.73	54.24	121.01	
630	37.49	124.48	60.69	130.17	37.78	115.99	.001240	375.54	130.22	130.09	208.04	45.32	123.55	
631	39.48	123.59	49.20	126.77	25.26	122.71	.001250	367.81	138.93	121.89	212.57	37.98	124.36	
632	37.42	117.61	38.89	125.37	20.47	132.83	.001260	360.44	118.40	106.32	200.13	32.26	125.27	
633	25.04	112.59	33.66	131.72	19.74	130.98	.001270	354.77	115.30	83.02	174.70	26.15	125.10	
634	7.66	114.44	28.06	134.23	21.06	119.16	.001280	360.07	135.54	62.81	154.05	18.93	122.61	
635	2.87	124.63	21.87	132.90	18.12	116.14	.001290	372.08	136.27	52.30	151.22	14.29	124.55	
636	4.86	130.24	17.38	132.97	12.74	127.29	.001300	379.08	108.87	45.54	152.67	11.66	130.17	
637	-1.11	125.66	17.09	136.22	3.97	130.32	.001310	371.86	86.50	40.27	143.29	6.65	130.73	
638	-10.54	118.57	12.15	132.97	1.03	121.60	.001320	361.33	86.27	38.30	129.80	.88	124.38	
639	.58	123.30	11.04	127.29	5.67	113.25	.001330	356.91	86.35	38.10	126.35	5.77	121.28	
640	26.51	130.68	17.23	121.67	16.20	114.29	.001340	365.16	79.33	34.64	128.08	19.98	122.22	
641	42.20	122.56	24.08	115.91	24.16	111.85	.001350	376.87	75.12	30.25	122.34	30.15	116.78	
642	41.76	98.34	24.30	103.58	28.28	99.15	.001360	385.49	79.18	30.54	109.41	31.45	100.35	
643	41.76	81.72	26.51	86.15	26.37	81.20	.001370	382.47	78.00	34.76	98.95	31.55	83.02	
644	49.79	88.22	26.37	67.54	26.00	73.96	.001380	376.50	71.72	36.58	94.69	34.05	76.57	
645	60.11	107.57	22.68	59.49	28.36	74.55	.001390	370.90	62.71	35.97	88.78	37.05	80.54	
646	64.82	103.95	22.98	59.41	32.85	71.01	.001400	365.45	55.77	36.88	76.62	40.22	78.12	

	AC	AD	AE	AF	AG	AH
588	0.00583	243.7521362	232.2604065	227.2511902	161.5420685	194.9122772
589	0.00584	234.5440216	236.6802979	227.8405151	170.5291901	190.8607025
590	0.00585	215.685791	229.5348053	237.3432922	184.3045349	195.3542633
591	0.00586	209.7189331	215.0228119	243.2364807	189.0927429	199.184845
592	0.00587	211.1922302	205.2253723	234.1020355	178.9269867	183.125885
593	0.00588	203.3100891	206.404007	217.1590881	162.7207031	155.2805481
594	0.00589	191.8183594	210.5292511	211.0449066	144.967453	130.1607971
595	0.0059	196.4592438	213.0338593	217.52742	121.9839859	108.797966
596	0.00591	204.6360474	212.3708649	219.8846893	92.81267548	83.30989838
597	0.00592	200.9528046	206.625	205.7410278	68.13491821	59.66344833
598	0.00593	189.0190888	194.7649536	186.0724945	60.47376251	48.02436736
599	0.00594	182.9785614	178.1903381	172.5181427	82.20491791	67.6192627
600	0.00595	176.9380341	155.3542023	167.3615875	127.4351959	118.0060806
601	0.00596	159.8477631	129.1294861	157.1958313	185.0411835	185.556839
602	0.00597	124.9305878	100.8421478	131.4131012	246.4777374	250.0873261
603	0.00598	92.81267548	71.6708374	95.02262115	284.0468445	289.2033997
604	0.00599	75.86973572	48.24538422	65.7776413	275.7963867	288.1720886
605	0.006	78.44800568	41.17354965	50.30800247	253.1812439	272.1131287
606	0.00601	95.90660095	59.36878967	57.82182693	251.7816162	268.7245483
607	0.00602	121.8366623	104.3044052	93.16099976	267.9142456	279.2586365
608	0.00603	134.4333649	146.8090668	132.8863983	274.2494202	283.0892029
609	0.00604	129.6451416	155.3542023	145.1147766	261.4317322	276.6803589
610	0.00605	126.1092224	134.9490204	139.0742493	234.9860077	265.4096375
611	0.00606	138.1902771	120.0687027	143.7888184	212.0025482	253.2549133
612	0.00607	160.7317505	129.3504791	170.4555206	198.0062103	236.6066437
613	0.00608	189.9767304	158.8901215	202.2051086	187.9141083	222.8312988
614	0.00609	220.0320282	187.1774597	219.8846893	173.6967773	211.9288788
615	0.0061	239.7005615	198.8901825	217.4537506	156.6801758	206.2566834
616	0.00611	240.4372101	197.4905548	207.9509735	141.6525269	200.5844879
617	0.00612	229.5348053	201.1001282	203.1627502	132.0760803	188.8717499
618	0.00613	217.8957367	215.3911285	207.9509735	124.6359253	166.9932709
619	0.00614	214.9491425	223.6416016	211.1185608	113.0705338	147.6193848
620	0.00615	213.623169	211.4132233	204.2677307	96.12759399	135.0226898
621	0.00616	205.5200348	193.2916565	189.1664124	84.12020874	125.7408981
622	0.00617	187.7667847	184.8201904	175.906723	79.25832367	110.7869186
623	0.00618	176.496048	182.9785614	168.3928986	74.83842468	92.518013
624	0.00619	173.6231079	178.1166687	167.435257	68.65057373	74.54376984
625	0.0062	168.9085541	167.65625	167.65625	63.1257019	65.40931702
626	0.00621	149.0190277	152.6286011	165.9619598	53.6229248	65.99863434
627	0.00622	124.7095947	137.9692841	159.9214325	43.23616791	67.91392517
628	0.00623	109.5346146	128.6138306	152.1129456	37.49030304	60.69475937
629	0.00624	105.7777023	121.3210068	138.5585938	39.47925568	49.20302582
630	0.00625	97.89555359	105.2620468	115.796135	37.41663742	38.88993454
631	0.00626	79.84764099	81.91026306	87.28780365	25.04092598	33.65972519
632	0.00627	62.53638077	60.40009689	65.48297882	7.65600061	28.06118965
633	0.00628	57.15884018	45.22512054	54.5069046	2.86777925	21.87333488
634	0.00629	54.87522888	33.80705261	47.95072174	4.85673285	17.37977219
635	0.0063	50.38166428	31.37611198	39.03726578	-1.11012757	17.08511353
636	0.00631	45.44611359	36.82731628	32.62841415	-10.53923988	12.14956188
637	0.00632	41.24721527	43.60449219	29.46082306	0.58416605	11.04458809
638	0.00633	27.54553413	44.26747513	32.11276245	26.51422501	17.23244286
639	0.00634	10.30793858	45.22512054	35.20668793	42.20485687	24.08328247
640	0.00635	10.01327896	47.7297287	33.88071823	41.76286697	24.30427742
641	0.00636	29.97647667	45.81443787	28.50317955	41.76286697	26.51422501
642	0.00637	42.86784363	38.88993454	27.98752403	49.79234695	26.36689568
643	0.00638	42.72051239	38.00595474	27.17720985	60.10543823	22.68364906
644	0.00639	40.5105629	45.88810349	24.2306118	64.81999207	22.97830772
645	0.0064	41.24721527	51.11831665	23.56762695	64.15701294	32.11276245
646	0.00641	38.15328598	47.2877388	30.19747162	64.30433655	38.30061722

	AI	AJ	AK	AL	AM	AN
588	200.4371491	192.4272614	161.3343811	180.3150787	149.9607239	165.3225403
589	197.8588715	211.1864014	161.2605286	182.161438	139.3994904	150.4777222
590	191.2290344	192.3534088	174.1112671	192.8703919	121.7481766	123.0775681
591	187.2511292	154.0227509	180.6104889	205.7211456	114.6581116	93.4617691
592	186.0724945	135.5590363	169.3106995	209.8570099	127.9519882	77.21370697
593	173.9914398	149.5914612	152.1025238	200.9944305	145.603302	81.34957886
594	147.1037293	161.1128082	143.2399445	185.5587616	132.1617127	77.58297729
595	106.3670197	153.7273254	148.1143646	170.3446655	80.46331787	42.94505692
596	70.71318817	138.0700989	151.8809509	163.7715912	23.81664848	-6.38998413
597	57.74816132	128.1735535	139.6949005	163.6977387	-11.11669445	-31.57448769
598	71.22884369	128.6905365	124.4808044	164.8055573	-15.47413063	-6.90696764
599	93.84397888	144.8647461	126.4010315	161.4820862	37.40594101	74.55493164
600	121.1000061	149.2960358	121.7481766	152.9887848	140.4334564	177.9517212
601	169.8661957	124.5546646	82.08812714	133.1218262	248.5569611	267.3160706
602	246.625061	88.88277435	26.69698906	98.04077148	337.1827698	334.4501343
603	306.1463318	71.60073853	-4.9128871	52.54618454	393.9032898	387.3302002
604	315.9437866	58.52842712	0.25695246	23.74279404	412.0715942	426.4732971
605	300.2531433	52.39847565	37.03666687	37.9967804	420.0479126	451.8055115
606	297.6011963	79.13393402	85.19002533	88.43964386	437.9946289	455.0551148
607	304.5993652	133.9342346	129.502945	142.8706665	451.8055115	436.8129578
608	303.4944153	158.4540405	160.9651032	182.3830109	434.3757629	408.6742554
609	289.866394	141.3197174	175.7360687	212.9589233	401.0672302	394.1987305
610	276.3857117	143.5353546	179.5765228	239.9897919	386.8132324	399.811676
611	263.273346	195.1598969	193.8305054	254.6130524	394.1987305	411.4807434
612	247.8037109	262.3677979	223.4463043	270.0487061	389.1765747	400.3286743
613	229.2401428	306.9022827	256.237854	296.7103272	359.1915283	363.3273926
614	216.7171021	313.7707825	273.9630127	316.3557129	318.1282349	326.1784058
615	204.0467377	306.0160217	277.8034668	314.4354858	286.370636	310.9642944
616	188.4297638	311.4812927	285.7797852	309.5610657	271.0088196	301.2893066
617	169.4242096	334.3762817	309.4133606	321.082428	256.0162964	283.711853
618	151.7446289	346.9316101	327.5816345	337.7736206	223.1508789	266.4298401
619	132.2970734	331.7174988	312.958374	329.2064514	184.8940735	251.0680237
620	114.6174927	302.9879761	274.1846008	301.6585999	165.5440979	220.7875366
621	100.9158173	285.3366699	246.2674561	283.2687378	166.4303589	187.257431
622	91.19204712	274.4061585	248.4092407	287.9954529	168.2028809	170.8616486
623	79.33198547	263.475647	271.1565247	301.2893066	161.4082336	167.3166199
624	69.90287781	250.1079102	281.7177734	297.5227051	145.3078766	152.0286713
625	64.08334351	231.4226227	255.351593	264.9527283	129.65065	129.2075195
626	60.47376251	205.9427033	213.2543335	228.8377075	121.5266113	119.6063843
627	51.56030655	197.6709595	191.5410156	215.986969	122.560585	126.844162
628	37.7849617	209.8570099	190.3593292	223.8894348	124.4808044	130.1676331
629	25.26192093	220.7875366	187.8482666	229.0592804	123.5945511	126.7703095
630	20.47369957	204.8348846	178.8379822	216.7255096	117.6123047	125.3670654
631	19.73705101	161.9990692	170.270813	191.8364258	112.5901794	131.7185822
632	21.0630188	125.8101959	164.8055573	171.5263519	114.4365463	134.2296448
633	18.11642265	129.502945	160.3742676	163.7715912	124.6285172	132.9002533
634	12.73888111	145.7510071	152.7672119	159.4880066	130.2414856	132.9741211
635	3.97275329	135.0420532	145.5294342	149.2960358	125.6624832	136.2237244
636	1.02615571	110.0052567	139.9164734	139.4733429	118.5724182	132.9741211
637	5.66704702	109.3405609	136.6668549	133.0479736	123.2991333	127.2872925
638	16.20113373	121.6004715	134.2296448	128.3951111	130.6846161	121.674324
639	24.15694809	116.3567734	133.1218262	117.5384522	122.560585	115.9136429
640	28.2821846	95.82512665	128.3212585	104.0968704	98.33618927	103.5798874
641	26.36689568	86.74098206	117.9815826	92.13238525	81.71884918	86.15013885
642	25.9985714	89.17819214	106.9033508	87.99651337	88.21807861	67.53871918
643	28.35584831	84.96846771	99.2963028	82.08812714	107.5680466	59.48854065
644	32.84941101	67.31715393	92.20623779	70.34520721	103.9491577	59.41468811
645	32.92307663	52.39847565	80.9803009	58.45457458	65.2492218	56.38663864
646	32.62841415	45.0868454	65.69234467	60.22708893	28.764925	46.41623306

	AO	AP	AQ	AR	AS	AT
588	155.6475525	363.7578125	77.3379364	234.4212494	185.6304932	178.0255737
589	138.0700989	362.210846	49.19923401	233.0216065	186.4162598	184.8694611
590	108.6020126	369.7983398	43.43855667	227.5213013	190.2959442	186.4450226
591	86.66712189	395.4337463	124.4573288	222.6594086	191.8429108	180.1181335
592	86.81483459	429.4669495	253.407898	216.8398743	182.7084503	171.5755768
593	94.4957428	458.7119446	358.7987671	208.9577332	163.9975586	167.5628052
594	89.84288025	489.4302063	410.0540161	204.4641724	140.743988	163.303833
595	61.03949356	511.7507019	406.4351502	209.0068359	112.382988	157.3954468
596	25.36760139	506.8151245	386.3466187	212.2971954	82.27858734	151.2408752
597	11.85216331	479.1171265	395.2830505	204.4396057	61.84884262	143.8553925
598	36.66739273	459.0065918	436.1247864	189.952179	59.90899658	139.3256378
599	83.93449402	461.8795166	458.4289551	177.8956757	81.22271729	144.2492828
600	140.7288818	476.0231934	445.3566589	166.5512695	122.1804276	141.3443298
601	223.8155823	477.6438294	431.693512	148.7243652	180.1547394	113.2548752
602	343.6081543	468.2883606	443.0671387	119.0619431	247.7300415	71.20684814
603	441.2442627	457.5332947	450.895752	86.50204468	293.1322022	39.7446785
604	473.0018311	447.6622009	425.34198	63.29758835	293.3040772	27.50939178
605	477.9501038	436.4651184	384.5740967	56.64318466	275.1824951	42.47730637
606	502.3222046	427.1833496	364.1163025	71.03240967	272.7024536	84.25453186
607	523.6662598	417.7542114	361.0144043	106.4406891	283.9240723	135.4359436
608	504.7594299	410.6824036	353.7766419	138.0429382	286.9443359	167.2673798
609	455.5720825	409.2827454	320.0249634	143.3713684	275.9928284	176.6715698
610	428.3935242	419.5958557	273.8656921	133.3775024	258.927124	187.7005615
611	432.3078308	420.9954834	244.7668762	134.0159302	242.8435974	214.5344849
612	431.6431274	401.3269348	245.8746948	153.5125885	227.4721832	251.9542694
613	400.2548218	378.0488281	253.4817505	183.6906586	213.3285217	286.6168213
614	359.560791	376.0598755	242.3296661	209.0313873	200.7809143	301.3631592
615	328.1724854	383.3526917	213.4524231	218.6815033	188.9945374	299.418335
616	308.6009522	380.5534363	184.6490326	215.2929077	176.8889313	302.2740479
617	282.5301819	373.1132813	151.8574829	211.2658997	163.4573517	321.6240234
618	244.864212	381.6584168	115.7424545	213.7459412	147.791275	337.4289551
619	207.7152252	394.4761047	89.2285614	216.5697632	130.9956665	324.6274414
620	189.4730682	398.0856934	94.10298157	209.7680359	115.255928	292.9437256
621	187.7744141	395.1390991	116.3332901	195.9927063	103.592308	271.6242981
622	185.1156464	400.4429627	129.1840363	182.8312378	93.74576569	270.2702942
623	161.9990692	409.0617676	116.5548554	175.9558411	82.22947693	278.6405029
624	131.6447296	408.1777954	86.49593353	173.0583496	71.03240967	276.4494629
625	114.584259	396.3177185	53.187397	168.0736847	64.20612335	250.5756531
626	112.8117447	384.7523193	44.54637909	155.8698578	60.03177261	216.0115814
627	113.6241455	379.2274475	80.36598206	140.8667755	54.23680115	201.7329865
628	115.9875031	375.54422	130.2180023	130.0871277	45.32334137	208.0352631
629	122.7082901	367.8093872	138.9328766	121.8857651	37.98139954	212.565033
630	132.8264008	360.4429016	118.4012299	106.3179092	32.26008987	200.1327972
631	130.9800415	354.7706909	115.299324	83.0152359	26.14590073	174.7021027
632	119.1632614	360.074585	135.535553	62.80648422	18.92673683	154.0473633
633	116.1352081	372.0819702	136.2741089	52.29695511	14.28584576	151.2162628
634	127.2872925	379.0801392	108.8739548	45.54433441	11.65846252	152.668747
635	130.3153381	371.8609619	86.49593353	40.26501465	6.64924622	143.2891693
636	121.6004715	361.3268738	86.27436829	38.3006134	0.8788259	129.7983551
637	113.2548676	356.9069824	86.34822845	38.10417557	5.7652669	126.351799
638	114.2888413	365.1574402	79.33201599	34.641922	19.98260117	128.0750732
639	111.8516312	376.8701782	75.12228394	30.24658203	30.14836311	122.3390198
640	99.14859772	385.4889832	79.18430328	30.5412426	31.4497757	109.4144211
641	81.20186615	382.4687195	78.00262451	34.76469803	31.54799652	98.95165253
642	73.96408844	376.5018616	71.72496796	36.58176804	34.05260468	94.69268799
643	74.55493164	370.9033203	62.71467209	35.96789169	37.04831314	88.78430176
644	71.00989532	365.4521179	55.77231598	36.8764267	40.21590424	76.62286377
645	58.60228348	359.48526	63.01009369	38.64438629	43.06428528	63.94445038
646	49.14886093	358.6012878	84.2802887	38.54616547	45.07778931	57.00209427

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588	156.976944
589	142.6491089
590	117.8092499
591	98.26233673
592	97.32684326
593	107.1495438
594	99.86252594
595	61.48262405
596	14.26475525
597	-10.27967262
598	4.76209831
599	65.29845428
600	153.0380249
601	246.5628662
602	338.4136963
603	407.4925842
604	437.182251
605	449.9345093
606	465.1239929
607	470.7615662
608	449.2698059
609	416.9460144
610	405.006134
611	412.6624451
612	407.049469
613	374.2579041
614	334.622467
615	308.5024719
616	293.6330261
617	274.0861206
618	244.8149719
619	214.5591126
620	191.934906
621	180.4873962
622	174.7267304
623	163.574646
624	142.9937592
625	124.4808121
626	117.9815826
627	121.0096283
628	123.545311
629	124.3577194
630	125.2685928
631	125.0962677
632	122.6098175
633	124.554657
634	130.1676331
635	130.7338562
636	124.3823395
637	121.2804337
638	122.2159271
639	116.7752838
640	100.3548889
641	83.02362061
642	76.57363129
643	80.53717041
644	78.12458038
645	60.07938004
646	41.4433403

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
647								.001410	41.25	52.40	51.12	80.98	23.57	58.45
648								.001420	38.15	45.09	47.29	65.69	30.20	60.23
649								.001430	40.58	39.55	43.90	53.28	39.63	68.79
650								.001440	46.11	26.99	46.40	46.42	44.78	56.39
651								.001450	45.08	13.92	49.20	34.38	39.33	22.04
652								.001460	32.26	6.09	47.88	13.99	30.12	7.49
653								.001470	20.11	7.27	43.90	3.80	24.89	25.00
654								.001480	19.15	5.80	38.30	8.62	26.15	42.50
655								.001490	24.69	-7.05	33.37	12.52	24.30	37.78
656								.001500	23.27	-25.44	30.20	7.20	15.02	24.26
657								.001510	9.79	-26.18	27.69	3.29	3.31	20.94
658								.001520	-4.20	-4.62	21.80	6.90	-.89	26.84
659								.001530	-5.16	13.55	15.39	10.74	-.15	31.57
660								.001540	.22	9.12	10.16	1.59	-.30	32.09
661								.001550	-.08	-3.73	4.41	-11.12	-4.79	29.43
662								.001560	-9.80	-9.64	-4.65	-12.00	-9.21	23.89
663								.001570	-18.57	-6.24	-12.53	1.00	-11.79	16.51
664								.001580	-24.46	-4.10	-12.82	12.74	-9.73	16.95
665								.001590	-29.54	-7.13	-5.90	12.81	-9.58	22.12
666								.001600	-37.87	-14.07	-1.04	5.26	-12.60	24.19
667								.001610	-40.52	-15.55	-1.48	.11	-17.17	21.45
668								.001620	-29.99	-11.71	-3.54	-.04	-16.06	21.82
669								.001630	-7.59	-5.58	-2.07	4.10	-10.61	25.66
670								.001640	7.07	-.63	1.32	10.01	-5.75	26.55
671								.001650	11.49	1.59	5.89	12.89	-4.28	25.66
672								.001660	13.11	-4.54	11.63	10.08	-3.47	25.29
673								.001670	20.40	-13.11	14.95	6.02	-.59	14.73
674								.001680	27.25	-18.80	14.06	3.14	3.97	-.92
675								.001690	29.31	-25.30	16.20	3.36	5.81	-.19
676								.001700	21.87	-37.85	21.65	4.64	5.15	18.13
677								.001710	9.42	-36.97	21.51	4.32	.81	24.19
678								.001720	2.65	-15.70	15.32	-.48	-1.92	6.68
679								.001730	8.39	1.88	10.53	-4.03	.14	-19.54
680								.001740	11.63	-6.54	9.72	-1.59	6.48	-33.94
681								.001750	4.41	-21.75	7.36	1.29	7.95	-24.63
682								.001760	-6.93	-21.75	.29	-.70	2.79	.77
683								.001770	-12.38	-9.20	-6.05	-1.96	-4.65	16.36
684								.001780	-17.10	-1.07	-10.24	2.62	-6.27	15.77
685								.001790	-21.44	5.57	-14.37	10.38	-4.13	6.90
686								.001800	-23.14	13.99	-19.75	15.84	-5.01	-.33
687								.001810	-21.74	11.93	-20.63	20.64	-12.09	-5.58
688								.001820	-19.82	-4.40	-17.83	25.81	-15.33	1.44
689								.001830	-17.24	-11.93	-19.23	27.44	-13.71	19.68
690								.001840	-17.61	-2.99	-28.22	24.26	-10.17	32.61
691								.001850	-19.60	8.53	-36.84	20.86	-11.94	32.31
692								.001860	-21.00	13.77	-40.45	22.86	-16.06	32.75
693								.001870	-15.92	21.01	-39.64	23.67	-18.86	38.07
694								.001880	-6.49	27.29	-38.38	19.68	-14.08	43.54
695								.001890	.44	29.28	-36.84	21.08	-5.01	44.57
696								.001900	-2.22	34.08	-32.12	30.83	.73	45.01
697								.001910	-7.08	45.01	-24.24	35.85	-.37	45.16
698								.001920	-4.79	49.44	-16.21	27.07	-.82	45.31
699								.001930	3.68	41.54	-7.37	8.62	3.24	42.65
700								.001940	8.83	27.07	3.97	-6.98	11.78	42.13
701								.001950	14.80	15.47	11.63	-10.16	19.59	45.46
702								.001960	26.22	7.42	14.14	-3.88	25.48	48.11
703								.001970	37.78	6.02	19.30	-.56	26.96	42.43
704								.001980	38.01	7.49	30.05	-5.28	30.05	32.46
705								.001990	32.70	2.77	38.15	-14.66	35.35	24.48

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
647	64.16	65.25	32.11	56.39	32.92	58.60	.001410	359.49	63.01	38.64	63.94	43.06	60.08	
648	64.30	28.76	36.30	46.42	32.63	49.15	.001420	358.60	84.28	38.55	57.00	45.08	41.44	
649	64.60	28.62	41.69	43.68	33.14	48.85	.001430	359.34	83.98	41.37	53.88	46.48	40.38	
650	59.37	45.97	44.12	56.02	35.50	56.09	.001440	355.95	47.80	45.77	43.27	46.33	52.69	
651	53.33	53.95	49.42	65.69	39.77	55.94	.001450	349.91	13.68	44.54	23.45	47.51	58.53	
652	49.42	52.47	49.65	46.12	46.11	47.30	.001460	351.01	15.15	36.75	9.19	48.39	48.63	
653	45.74	55.94	44.34	23.89	48.17	43.24	.001470	352.93	25.64	29.63	12.02	46.08	41.02	
654	38.23	57.20	36.24	28.47	46.92	36.89	.001480	351.97	29.63	27.86	19.04	40.46	40.85	
655	30.34	49.59	29.90	50.18	44.05	15.25	.001490	346.37	31.10	27.52	14.41	34.76	38.34	
656	22.98	38.07	23.71	60.60	41.10	10.30	.001500	346.37	40.19	22.83	2.00	29.26	36.32	
657	18.56	36.45	19.00	57.35	39.26	37.78	.001510	350.94	52.67	13.60	-.65	25.61	43.86	
658	15.17	42.13	15.46	49.52	40.66	63.55	.001520	350.57	65.96	5.57	9.71	23.76	51.73	
659	14.73	47.89	16.35	47.01	36.61	59.19	.001530	344.83	74.31	3.36	18.62	22.56	51.36	
660	12.67	49.89	18.12	48.78	27.10	44.87	.001540	344.16	74.01	3.36	14.26	19.30	47.84	
661	10.01	53.73	19.52	50.33	18.56	38.29	.001550	348.88	72.32	-.15	4.86	16.03	47.45	
662	12.22	57.57	19.88	46.27	22.09	39.40	.001560	351.97	80.74	-7.89	.75	18.07	47.75	
663	19.52	58.68	22.17	42.21	29.76	36.45	.001570	349.32	93.07	-14.30	3.75	23.81	45.78	
664	22.02	57.49	19.81	40.43	31.08	29.95	.001580	349.91	102.67	-15.67	8.53	24.30	42.63	
665	14.43	57.13	15.10	43.76	22.68	26.18	.001590	353.15	103.19	-15.01	9.27	17.40	42.35	
666	1.84	55.43	12.15	47.82	13.70	31.72	.001600	352.93	102.01	-17.17	5.13	9.23	44.99	
667	-3.84	53.06	12.52	52.25	8.83	40.66	.001610	343.28	101.27	-19.72	2.00	5.84	48.66	
668	-.23	53.14	11.93	55.43	11.78	47.97	.001620	334.59	91.37	-16.53	3.36	7.83	52.18	
669	6.26	51.51	12.89	58.75	13.92	51.00	.001630	337.90	76.30	-6.76	8.06	11.02	53.75	
670	10.97	44.87	12.67	60.08	13.84	50.33	.001640	353.08	81.70	.88	11.98	12.49	51.76	
671	14.29	43.98	15.54	59.64	14.29	38.37	.001650	365.16	108.73	4.37	13.38	14.70	47.33	
672	18.48	51.14	21.65	53.58	20.11	25.59	.001660	371.86	131.10	7.09	10.28	20.08	43.44	
673	23.49	55.06	30.34	47.15	27.99	31.28	.001670	371.57	124.01	11.58	2.55	27.28	44.50	
674	27.32	48.56	31.45	41.76	37.20	52.55	.001680	367.44	98.02	15.10	-5.53	31.99	47.62	
675	27.99	37.04	23.49	42.95	44.19	58.45	.001690	359.78	75.86	17.11	-7.37	31.89	46.15	
676	27.40	29.73	11.71	47.82	48.76	44.50	.001700	356.24	79.18	16.23	-4.96	29.29	40.68	
677	31.38	30.24	9.57	51.66	51.04	32.01	.001710	355.58	97.43	10.58	-2.82	30.66	37.97	
678	36.39	32.75	16.64	50.18	54.21	36.74	.001720	355.07	105.26	5.35	-3.16	35.75	39.89	
679	36.83	33.12	25.19	51.07	50.46	46.64	.001730	351.90	99.49	6.35	-7.23	37.49	43.61	
680	30.34	33.93	27.99	55.06	43.02	53.58	.001740	348.95	101.86	9.28	-14.02	33.76	47.52	
681	25.92	42.21	26.22	55.20	37.93	52.47	.001750	348.58	113.53	6.58	-15.03	30.03	49.96	
682	25.48	44.64	22.39	42.13	41.54	48.56	.001760	351.46	120.84	-1.28	-7.23	29.80	45.11	
683	26.51	27.29	23.49	28.91	45.23	44.72	.001770	350.87	109.98	-7.69	1.73	31.74	33.64	
684	23.27	.33	24.08	39.10	44.34	44.72	.001780	346.52	84.28	-11.20	5.77	30.57	28.05	
685	16.86	-9.42	21.36	69.83	34.76	44.64	.001790	335.32	65.23	-13.31	7.62	24.33	35.02	
686	13.62	-3.29	19.07	78.84	24.16	46.79	.001800	325.89	78.52	-15.97	9.83	18.95	40.78	
687	14.06	-2.25	25.04	43.24	15.32	45.09	.001810	323.24	103.04	-18.15	9.00	18.14	28.69	
688	9.87	-8.46	33.00	-9.79	13.25	37.33	.001820	325.75	113.08	-17.66	7.62	18.71	6.36	
689	.29	-3.88	37.20	-25.15	18.26	25.81	.001830	326.78	115.08	-16.73	11.73	18.58	-1.07	
690	-5.53	15.18	31.74	7.20	28.58	21.82	.001840	318.97	122.39	-18.67	17.96	18.26	14.73	
691	-3.54	34.89	21.58	47.30	30.71	22.41	.001850	298.86	127.63	-22.79	20.57	16.25	34.87	
692	1.47	44.87	12.67	47.75	25.04	21.01	.001860	279.93	127.56	-25.84	23.13	13.06	37.87	
693	7.95	46.34	9.87	22.41	19.59	18.06	.001870	274.92	126.16	-24.81	27.58	12.47	28.94	
694	19.44	45.90	11.34	18.35	24.82	21.75	.001880	288.32	129.48	-19.65	30.17	18.53	28.67	
695	35.50	42.35	16.94	41.62	29.90	23.15	.001890	301.88	130.22	-13.81	31.65	27.45	35.71	
696	46.55	36.74	21.14	54.91	28.43	14.29	.001900	319.63	147.20	-11.20	36.64	32.04	35.31	
697	49.65	36.30	23.57	50.70	21.87	8.82	.001910	336.94	166.63	-10.56	42.01	31.70	31.94	
698	47.73	40.29	25.48	43.54	19.22	22.12	.001920	335.62	147.50	-7.27	40.61	30.81	35.31	
699	45.96	40.29	35.06	41.91	21.65	36.15	.001930	318.82	101.86	-.15	31.01	34.22	39.45	
700	45.52	31.50	46.11	39.40	29.90	35.34	.001940	314.48	79.78	8.20	20.74	40.51	35.41	
701	51.71	22.63	55.39	37.18	35.28	27.14	.001950	330.61	85.17	15.34	16.92	47.46	28.99	
702	60.92	21.90	62.46	37.63	36.46	27.58	.001960	351.09	85.76	21.95	17.22	53.28	29.04	
703	66.00	28.17	69.02	39.55	33.73	28.91	.001970	363.98	72.76	28.01	15.96	56.25	32.21	
704	66.59	31.87	70.71	36.45	34.69	20.79	.001980	371.12	60.79	32.70	11.56	57.33	29.70	
705	72.55	32.31	71.16	32.75	34.69	10.52	.001990	372.82	51.19	35.40	4.20	59.47	25.20	

	AC	AD	AE	AF	AG	AH
647	0.00642	40.58422852	43.89915085	39.6265831	64.59899902	41.68920135
648	0.00643	46.10910034	46.403759	44.76313065	59.36878967	44.12014771
649	0.00644	45.07778931	49.20302582	39.33192444	53.32826233	49.42402267
650	0.00645	32.26008987	47.87705994	30.12380791	49.42402267	49.64501572
651	0.00646	20.10537529	43.89915085	24.69359665	45.74077606	44.34114075
652	0.00647	19.14773178	38.30061722	26.14590073	38.2269516	36.23799896
653	0.00648	24.89359665	33.36506653	24.30427742	30.34480286	29.90281296
654	0.00649	23.27296829	30.19747162	15.02249432	22.97830772	23.71495819
655	0.0065	9.79228401	27.69286346	3.30976892	18.55641255	19.00040054
656	0.00651	-4.20405531	21.79966927	-0.88913274	15.1698246	15.46446421
657	0.00652	-5.1616993	15.39081955	-0.15248336	14.7278347	16.34846306
658	0.00653	0.21584135	10.16060829	-0.29981324	12.66521645	18.11642265
659	0.00654	-0.07881841	4.41474295	-4.79337454	10.01327896	19.51605606
660	0.00655	-9.80259037	-4.64604473	-9.21327114	12.22322655	19.88436034
661	0.00656	-18.56871796	-12.52819347	-11.79154396	19.51605606	22.16799355
662	0.00657	-24.46191406	-12.82285309	-9.7289257	22.02066422	19.81071472
663	0.00658	-29.54479408	-5.89834881	-9.58159542	14.43317509	15.09615898
664	0.00659	-37.86893463	-1.03646266	-12.60185814	1.83647001	12.14956188
665	0.0066	-40.52087021	-1.47845232	-17.16908455	-3.83573031	12.51788616
666	0.00661	-29.98678398	-3.5410707	-16.0641098	-0.22614829	11.92856693
667	0.00662	-7.59264231	-2.06777191	-10.61290455	6.25636673	12.8862114
668	0.00663	7.06668091	1.32081544	-5.751019	10.97092247	12.66521645
669	0.00664	11.48657703	5.88804197	-4.27771997	14.2858448	15.53814888
670	0.00665	13.10720634	11.63390732	-3.4674058	18.48474693	21.65233994
671	0.00666	20.40003586	14.94882965	-0.594473	23.49396324	30.34480286
672	0.00667	27.25087547	14.06484985	3.97275329	27.32453918	31.4497757
673	0.00668	29.31349373	16.20113373	5.81437683	27.98752403	23.49396324
674	0.00669	21.87333488	21.65233994	5.15139246	27.3982048	11.70757198
675	0.0067	9.42395878	21.5050087	0.80516088	31.37611198	9.57128906
676	0.00671	2.64678431	15.31715393	-1.92044199	36.38532639	16.64312363
677	0.00672	8.39264965	10.52893353	0.1421764	36.82731628	25.18825722
678	0.00673	11.63390732	9.71861839	6.4773612	30.34480286	27.98752403
679	0.00674	4.41474295	7.36134052	7.95066023	25.92490578	26.21956635
680	0.00675	-6.92965794	0.28950629	2.79411435	25.46291588	22.38898849
681	0.00676	-12.38086319	-6.04567862	-4.64604473	26.51422501	23.49396324
682	0.00677	-17.09541893	-10.24458027	-6.26667356	23.27296829	24.08328247
683	0.00678	-21.44165039	-14.36981678	-4.13039017	16.86411858	21.35767937
684	0.00679	-23.13594437	-19.74735832	-5.01436949	13.62286091	19.07406616
685	0.0068	-21.73631096	-20.63133621	-12.08620358	14.06484985	25.04092598
686	0.00681	-19.82102203	-17.8320694	-15.32746124	9.86594868	32.99673843
687	0.00682	-17.24275017	-19.2317028	-13.70663289	0.28950629	37.19564056
688	0.00683	-17.61107445	-28.21882629	-10.1709156	-5.53002405	31.74443626
689	0.00684	-19.60002708	-36.8376236	-11.93887424	-3.5410707	21.57867432
690	0.00685	-20.9996624	-40.44720459	-16.0641098	1.46814537	12.66521645
691	0.00686	-15.91678047	-39.63689041	-18.86337852	7.95066023	9.86594868
692	0.00687	-6.48766804	-38.38458633	-14.07515717	19.44239044	11.3392477
693	0.00688	0.43683618	-36.8376236	-5.01436949	35.50134659	16.93778229
694	0.00689	-2.21510172	-32.12306595	0.73149592	46.55109024	21.13668442
695	0.0069	-7.07698774	-24.24091911	-0.37347817	49.64501572	23.56762695
696	0.00691	-4.79337454	-16.21144104	-0.81546783	47.7297287	25.48291588
697	0.00692	3.67809367	-7.37164736	3.23610401	45.9617691	35.05935669
698	0.00693	8.83463955	3.97275329	11.78123665	45.51977921	46.10910034
699	0.00694	14.80149937	11.63390732	19.58972168	51.70763397	55.39088058
700	0.00695	26.21956635	14.13851547	25.48291588	60.91575241	62.46271515
701	0.00696	37.7849617	19.29506111	26.9562149	65.99863434	69.01889801
702	0.00697	38.00595474	30.05014229	30.05014229	66.58795166	70.71318817
703	0.00698	32.70207977	38.15328598	35.35401917	72.55480957	71.15518188
704	0.00699	32.77574539	41.32087708	40.21590424	81.32093811	73.95444489
705	0.007	40.14223862	43.82548523	38.88993454	83.75188446	80.58428955

	AI	AJ	AK	AL	AM	AN
647	33.14406967	39.54773331	53.28473282	68.79425049	28.6172142	43.68360519
648	35.50134659	26.99240685	46.41623306	56.38663864	45.97310257	56.0173645
649	39.77391434	13.92009926	34.37789154	22.04413223	53.94942856	65.69234467
650	46.10910034	6.0914855	13.99395466	7.49472761	52.472332	46.12081528
651	48.1717186	7.27316332	3.80198526	24.99832726	55.94350815	23.89050484
652	46.91941452	5.79606628	8.8241148	42.50192642	57.19903946	28.46950531
653	44.04648209	-7.05467749	12.51685715	37.77521515	49.59199142	50.18283081
654	41.09988403	-25.4445343	7.1993084	24.25977898	38.07063675	60.59636307
655	39.25825882	-26.18308258	3.28500128	20.93630981	36.44582748	57.34675217
656	40.65789413	-4.6174674	6.9038887	26.84469795	42.13265228	49.51813507
657	36.60632324	13.55082512	10.7443409	31.57140923	47.89332962	47.00707245
658	27.10354424	9.11953449	1.58633971	32.08839417	49.88740921	48.77958679
659	18.55841255	-3.73120928	-11.11669445	29.42961693	53.72786331	50.3305397
660	22.09432793	-9.63959694	-12.00295258	23.89050484	57.5683136	46.26852417
661	29.75548172	-6.24227428	0.99550092	16.50501823	58.67613602	42.20650482
662	31.08145142	-4.10048342	12.73842144	16.94814873	57.49446106	40.43399048
663	22.68364906	-7.12853241	12.81227684	22.11798859	57.12518692	43.75745773
664	13.69652557	-14.07088852	5.2790823	24.18592262	55.42652512	47.81947327
665	8.83463955	-15.54798508	0.10924275	21.45329475	53.06316757	52.25076675
666	11.78123665	-11.70753288	-0.03846694	21.82256889	53.13702393	55.42652512
667	13.91752052	-5.57758045	4.09740448	25.66302109	51.51221848	58.74999237
668	13.84385586	-0.62930572	10.00579262	26.54927826	44.86528015	60.07938004
669	14.2858448	1.58633971	12.88613129	25.66302109	43.97902298	59.63624954
670	20.10537529	-4.54361248	10.07964706	25.29374695	51.14294434	53.58015442
671	27.98752403	-13.11077499	6.01763058	14.73250294	55.05725098	47.15478134
672	37.19564056	-18.79759789	3.13729167	-0.92472512	48.55802536	41.76337814
673	44.19380951	-25.29682541	3.3588562	-0.18617664	37.03666687	42.94505692
674	48.76103592	-37.85214996	4.83595324	18.12982559	29.72503662	47.81947327
675	51.04465103	-36.96589279	4.31896925	24.18592262	30.24202156	51.65992737
676	54.21224213	-15.69569492	-0.48159602	6.68232441	32.75308609	50.18283081
677	50.4553299	1.88175917	-4.02662897	-19.53614616	33.12236023	51.06908798
678	43.01517105	-6.5376935	-1.58941877	-33.93784332	33.93476486	55.05725098
679	37.93229294	-21.75179291	1.29092038	-24.63213158	42.20650482	55.20495987
680	41.54187393	-21.75179291	-0.70316058	0.77393639	44.6437149	42.13265228
681	45.22512054	-9.19646835	-1.95869303	16.35730934	27.28782654	28.9126339
682	44.34114075	-1.07243478	2.62030768	15.76647091	0.3308073	39.10460281
683	34.76469803	5.57450151	10.37506676	6.9038887	-9.41803265	69.82821655
684	24.15694809	13.99395466	15.84032536	-0.33388633	-3.28808022	78.83850861
685	15.31715393	11.92601871	20.64089012	-5.57758045	-2.25411248	43.2404747
686	13.25453568	-4.39590311	25.81072998	1.43862998	-8.45792007	-9.78730679
687	18.26375198	-11.92909718	27.43553734	19.6807785	-3.87891912	-25.14911461
688	28.57684326	-2.992661	24.25977898	32.6053772	15.17563152	7.1993084
689	30.71312714	8.52869511	20.86245537	32.3099556	34.89487839	47.30249023
690	25.04092598	13.77238941	22.85653687	32.75308609	44.86528015	47.74562073
691	19.58972168	21.01016426	23.66893959	38.07063675	46.34237671	22.41340637
692	24.81993103	27.28782654	19.6807785	43.53589249	45.89925003	18.35139084
693	29.90281296	29.28190804	21.08402061	44.56986237	42.35421753	41.61566925
694	28.42951393	34.08247375	30.83285904	45.01298904	36.74124908	54.90954208
695	21.87333488	45.01298904	35.8549881	45.16070175	36.29811859	50.69981384
696	19.22139549	49.44428253	27.0662632	45.30841064	40.28628159	43.53589249
697	21.65233994	41.5418129	8.8241148	42.64963531	40.28628159	41.91108704
698	29.90281296	27.0662632	-6.98082256	42.13265228	31.49755287	39.4000206
699	35.28035355	15.47105122	-10.15658092	45.45611954	22.63497162	37.18437576
700	36.458992	7.42087269	-3.87891912	48.11489487	21.89642334	37.62750626
701	33.73339081	6.01763058	-0.55545086	42.42807007	28.17408562	39.54773331
702	34.69103241	7.49472761	-5.28216124	32.4576683	31.86682701	36.44582748
703	34.69103241	2.76801729	-14.66172695	24.48134232	32.3099556	32.75308609
704	31.37611198	-10.74742031	-29.4326973	24.11206818	36.1504097	31.34984398
705	27.54553413	-25.4445343	-40.58477783	24.25977898	44.27444077	33.49163437

	AO	AP	AQ	AR	AS	AT
647	48.85344315	359.3379211	83.98487091	41.36998749	46.47742462	53.8755722
648	56.09121704	355.9493408	47.7959938	45.76533127	46.33009338	43.26509094
649	55.94350815	349.9088135	13.6750536	44.53757858	47.50873184	23.44737434
650	47.30249023	351.013794	15.15215015	36.75365448	48.39271164	9.19338894
651	43.2404747	352.9290772	25.63953972	29.6327076	46.08454514	12.02449226
652	36.88895798	351.9714356	29.62770081	27.86474991	40.4614563	19.04070282
653	15.24948692	346.3728943	31.10479736	27.52098083	34.76469803	14.4124651
654	10.30121231	346.3728943	40.18894577	22.83097839	29.26438332	2.0048511
655	37.77521515	350.9401245	52.67041397	13.5983057	25.60569	-0.65392381
656	63.55055618	350.5718079	65.9642868	5.56882715	23.7640686	9.71037292
657	59.19312286	344.8259277	74.30988312	3.35887885	22.56087303	18.62219238
658	44.86528015	344.1629334	74.01446533	3.35887885	19.29506111	14.2647562
659	38.29219818	348.8775024	72.31580353	-0.15248333	16.02924919	4.86057091
660	39.4000206	351.9714356	80.73525238	-7.88730192	18.06731224	0.74931842
661	36.44582748	349.3194885	93.0690155	-14.29615211	23.81317711	3.75274825
662	29.94660187	349.9088135	102.6701431	-15.67123127	24.30427742	8.52869606
663	26.18000412	353.1500549	103.1871338	-15.00824642	17.40432739	9.26724434
664	31.71911812	352.9290772	102.005455	-17.16908455	9.22751904	5.13137197
665	40.65555573	343.2789612	101.2669067	-19.72280312	5.83893204	2.00485086
666	47.96718597	334.5865173	91.3703537	-16.53065491	7.82788515	3.35885644
667	50.99523544	337.9014282	76.30396271	-6.75777292	11.02003288	8.06094837
668	50.3305397	353.076416	81.69536591	0.87882578	12.49333191	11.97525501
669	38.36605453	365.1574402	108.7262421	4.36563301	14.7032795	13.37849712
670	25.58916473	371.8609619	131.1042633	7.09123611	20.08082008	10.27659416
671	31.27598953	371.5663147	124.0141983	11.58479786	27.27543068	2.54645276
672	52.54618454	367.4410706	98.01728821	15.09615993	31.98998451	-5.52834368
673	58.45457458	359.7799072	75.86083984	17.10966873	31.89176559	-7.37471533
674	44.49600601	356.243988	79.18430328	16.22568893	29.28893661	-4.96212387
675	32.01453781	355.5810242	97.42645264	10.57804298	30.66401672	-2.82033372
676	36.74124908	355.0653687	105.2550659	5.3478322	35.74689865	-3.16498876
677	46.63779831	351.8977661	99.49438477	6.3545866	37.49030304	-7.22700548
678	53.58015442	348.9511719	101.8577423	9.27662849	33.78250122	-14.02165222
679	52.472332	348.5828552	113.5268097	6.57558107	30.02558899	-15.03100109
680	48.55802536	351.45578	120.8384399	-1.28201246	29.80459213	-7.22700548
681	44.71757126	350.8664551	109.9817734	-7.69086218	31.74443626	1.73404932
682	44.71757126	346.5202332	84.2802887	-11.20222473	30.56579781	5.77144814
683	44.6437149	335.3231506	65.22573853	-13.31395245	24.32883263	7.61781883
684	46.7855072	325.894043	78.51960754	-15.96589088	18.95129204	9.83346462
685	45.0868454	323.242096	103.0394211	-18.15128326	18.14097595	8.99644279
686	37.33208466	325.7467041	113.0836792	-17.66018486	18.70574188	7.61781883
687	25.81072998	326.7780151	115.0777588	-16.72709465	18.58296585	11.72907257
688	21.82256889	318.9695435	122.389389	-18.66693878	18.26375198	17.95749855
689	22.41340637	298.8590088	127.6330872	-22.79217529	16.25024414	20.56703568
690	21.01016426	279.927124	127.559227	-25.83699226	13.05809593	23.12733841
691	18.05597115	274.9179077	126.1559906	-24.80568314	12.4687767	27.58324623
692	21.74871254	288.3249207	129.4794617	-19.6491375	18.53385544	30.16816521
693	23.15195465	301.8792725	130.2180023	-13.80505276	27.44731331	31.64526367
694	14.2893734	319.6325073	147.2046204	-11.20222378	32.03909683	36.64277267
695	8.8241148	336.9437866	166.6284485	-10.56379509	31.69532585	42.00955963
696	22.11798859	335.6178284	147.5000458	-7.27342796	30.81134605	40.60631943
697	36.1504097	318.8222046	101.8577423	-0.15248322	34.2244873	31.00518799
698	35.33800507	314.4759827	79.77514648	8.19620991	40.5105629	20.73936462
699	27.14011765	330.6086121	85.16654968	15.34170914	47.45962143	16.92353058
700	27.58324623	351.0874634	85.75738525	21.9469986	53.27915192	17.21895027
701	28.9126339	363.9788208	72.75893402	28.01207924	56.25030899	15.96341705
702	20.78860092	371.1243286	60.79444885	32.70207977	57.33072281	11.55674458
703	10.5227766	372.8186035	51.19331741	35.40312958	59.46700668	4.19587755
704	13.32926083	370.6086731	46.02347565	38.10417557	62.21716309	-5.35601664
705	21.01016426	363.0948486	46.31889725	40.9525528	63.96057129	-13.92317772

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647	40.38475418
648	52.69389343
649	58.52842712
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651	41.02482986
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653	38.34143829
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661	45.77615738
662	42.62501907
663	42.35421753
664	44.9883728
665	48.65649796
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669	47.32711029
670	43.43741989
671	44.49600601
672	47.62252808
673	46.14543152
674	40.68017197
675	37.97216034
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697	39.44926071
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699	28.98648834
700	29.03572464
701	32.211483
702	29.70041847
703	25.19527245
704	26.94317245
705	32.92541504

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
706								.002000	32.78	-10.75	41.32	-29.43	40.22	24.11
707								.002010	40.14	-25.44	43.83	-40.58	38.89	24.26
708								.002020	46.26	-33.27	47.66	-31.13	34.76	20.79
709								.002030	45.96	-29.58	48.47	-9.34	30.12	13.85
710								.002040	37.56	-25.30	45.23	2.69	24.97	9.19
711								.002050	29.31	-26.77	41.25	2.40	16.20	5.87
712								.002060	26.07	-28.18	37.78	-1.07	11.04	7.13
713								.002070	29.39	-20.42	33.59	-2.70	10.16	12.44
714								.002080	28.43	-12.00	24.75	-8.97	11.49	18.06
715								.002090	21.58	-12.08	13.18	-22.05	7.66	18.28
716								.002100	14.60	-20.27	6.99	-22.86	1.39	18.94
717								.002110	15.46	-21.90	7.95	-5.80	.88	23.82
718								.002120	16.20	-16.58	10.38	7.49	7.95	28.91
719								.002130	17.16	-11.63	9.42	3.65	10.09	25.37
720								.002140	20.03	-13.78	9.13	-6.39	4.19	14.66
721								.002150	27.25	-15.10	16.20	-9.79	.14	4.10
722								.002160	36.61	-14.88	26.44	-8.61	10.90	3.14
723								.002170	51.12	-16.51	31.89	-7.50	23.64	11.93
724								.002180	66.59	-22.19	35.13	-4.47	23.20	23.67
725								.002190	76.97	-20.72	41.54	2.16	12.52	27.88
726								.002200	77.79	-14.51	49.35	5.50	11.19	24.63
727								.002210	78.15	-12.15	53.25	-4.62	16.27	6.02
728								.002220	83.60	-14.81	52.74	-22.64	21.14	-19.91
729								.002230	89.28	-10.23	54.51	-28.40	22.46	-26.63
730								.002240	90.01	3.06	58.34	-14.96	25.41	-6.02
731								.002250	93.64	14.58	60.99	.63	29.61	10.89
732								.002260	101.36	11.04	60.25	-.19	36.09	6.61
733								.002270	103.94	-1.96	56.79	-11.86	38.15	-5.06
734								.002280	91.56	-11.26	50.16	-12.00	36.24	-.41
735								.002290	72.19	-7.50	40.22	-.92	27.77	10.23
736								.002300	58.19	-.04	31.01	3.06	20.11	7.94
737								.002310	56.79	-.11	27.10	-10.82	18.63	-8.75
738								.002320	51.49	-8.09	25.48	-31.50	24.01	-25.00
739								.002330	37.71	-12.89	24.30	-30.32	30.05	-48.63
740								.002340	26.37	-13.92	24.23	-6.98	32.78	-72.05
741								.002350	23.86	-7.94	24.75	11.78	29.68	-60.97
742								.002360	20.64	-3.14	22.39	14.51	24.38	-17.54
743								.002370	24.60	-7.35	17.45	2.77	18.19	7.27
744								.002380	32.26	-14.07	13.62	-10.08	15.91	.55
745								.002390	30.05	-12.74	12.52	-10.23	17.23	-3.95
746								.002400	13.70	-9.64	11.56	-.78	16.35	6.17
747								.002410	5.89	-6.61	8.98	.92	8.32	13.03
748								.002420	17.01	1.36	10.01	-21.38	3.02	15.03
749								.002430	29.76	17.91	17.38	-69.91	3.60	20.27
750								.002440	24.23	26.55	23.86	-95.61	8.98	29.13
751								.002450	15.46	21.60	20.62	-52.11	12.37	31.28
752								.002460	19.74	12.66	11.34	11.48	10.97	24.48
753								.002470	39.18	8.09	7.58	24.26	4.71	13.62
754								.002480	56.86	1.36	17.31	2.84	5.45	3.88
755								.002490	62.32	-.26	33.88	-7.79	15.32	-1.22
756								.002500	60.18	8.90	44.19	-6.09	28.21	4.47
757								.002510	61.73	23.15	46.11	-1.22	31.23	13.11
758								.002520	63.49	29.87	46.40	16.87	29.09	17.32
759								.002530	61.87	32.09	48.47	36.22	29.17	14.73
760								.002540	59.37	35.56	52.74	38.66	37.93	13.11
761								.002550	63.35	38.59	57.75	19.61	48.47	14.14
762								.002560	66.59	23.89	57.60	8.53	53.25	16.36
763								.002570	62.83	-11.56	48.54	14.95	50.38	15.62
764								.002580	51.19	-30.47	36.83	22.12	45.96	16.87

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
706	81.32	36.15	73.95	31.35	31.38	13.33	.002000	370.61	46.02	38.10	-5.36	62.22	26.94	
707	83.75	44.27	80.58	33.49	27.55	21.01	.002010	363.09	46.32	40.95	-13.92	63.96	32.93	
708	80.07	44.27	85.52	33.79	31.52	29.36	.002020	358.45	52.23	42.89	-14.54	65.70	35.81	
709	79.41	30.83	88.61	30.24	38.45	36.37	.002030	357.64	56.07	41.52	-8.36	68.82	32.48	
710	82.65	13.85	86.92	25.44	45.37	40.58	.002040	357.94	53.56	35.92	-4.47	71.65	26.62	
711	81.76	6.53	81.69	26.55	50.46	38.22	.002050	357.86	46.47	28.92	-6.17	71.30	23.77	
712	73.66	10.45	70.49	33.64	57.16	35.41	.002060	355.29	37.09	24.97	-7.37	67.10	26.50	
713	63.94	18.72	57.75	42.95	60.18	30.46	.002070	347.40	19.88	24.38	-3.56	60.62	30.71	
714	58.48	27.80	49.20	46.19	59.59	26.40	.002080	340.77	5.11	21.55	-.97	55.76	33.47	
715	53.62	36.89	46.62	46.49	57.75	22.19	.002090	336.06	6.14	14.14	-5.28	52.67	35.19	
716	42.72	44.57	39.99	47.45	58.63	18.87	.002100	339.52	23.13	7.73	-8.06	47.12	36.96	
717	27.69	49.44	25.92	50.11	63.13	14.81	.002110	345.64	35.39	8.10	-1.29	38.91	38.12	
718	12.67	47.67	9.57	46.56	71.08	13.77	.002120	352.41	35.24	11.51	6.61	31.11	36.00	
719	.07	38.88	2.65	38.29	74.40	14.88	.002130	356.10	27.71	12.22	5.80	25.70	30.69	
720	-8.99	29.73	6.99	28.47	79.04	19.75	.002140	357.20	17.44	11.12	-1.84	25.68	25.98	
721	-8.55	30.61	22.39	23.37	84.41	24.48	.002150	361.55	5.03	14.53	-6.93	32.75	26.16	
722	.29	39.03	38.01	20.79	87.88	27.51	.002160	366.56	-3.83	24.65	-6.78	42.06	29.11	
723	11.63	43.46	50.23	19.31	87.66	24.85	.002170	360.81	-4.94	35.55	-4.03	49.84	29.21	
724	19.30	35.49	59.44	15.54	87.51	20.35	.002180	359.41	.82	41.64	-1.00	55.42	23.79	
725	26.07	17.91	69.24	10.01	81.98	11.78	.002190	377.31	-12.99	43.68	3.11	59.10	13.23	
726	42.72	-3.36	82.65	3.58	79.26	4.32	.002200	405.01	-98.88	46.11	5.21	68.21	1.51	
727	71.45	-11.86	101.65	3.80	81.47	.26	.002210	414.29	-243.56	49.23	-3.58	84.86	-2.60	
728	92.89	-2.11	113.29	10.15	84.49	.48	.002220	405.30	-284.11	52.49	-19.12	96.89	2.84	
729	103.49	7.35	115.06	16.14	79.99	-2.99	.002230	394.40	-154.79	55.42	-21.75	99.52	6.83	
730	117.71	4.10	116.31	13.40	74.76	-13.55	.002240	392.19	-22.44	57.92	-5.97	102.93	1.32	
731	131.12	-3.58	119.55	7.49	71.16	-30.69	.002250	397.64	-14.91	61.48	8.70	107.28	-8.93	
732	130.01	-4.17	113.81	5.35	69.09	-37.34	.002260	406.85	-55.60	65.90	5.82	104.30	-12.05	
733	120.51	-2.92	103.72	9.78	63.64	-27.96	.002270	418.71	-40.02	66.29	-6.29	95.96	-7.03	
734	114.76	-13.18	94.43	12.81	59.37	-15.99	.002280	428.36	5.99	59.32	-7.89	89.52	-5.45	
735	110.79	-27.00	88.76	11.04	55.46	-14.96	.002290	420.33	-10.99	46.72	.60	85.00	-10.30	
736	98.34	-20.27	81.62	.33	49.13	-18.21	.002300	397.20	-78.94	36.43	3.65	76.36	-12.72	
737	78.01	7.20	70.86	-12.30	35.65	-15.10	.002310	374.37	-117.34	34.18	-6.56	61.51	-6.73	
738	60.55	23.30	56.05	-3.88	21.73	-3.14	.002320	365.67	-124.88	33.66	-21.53	46.11	5.43	
739	54.80	14.73	45.52	23.37	14.88	3.21	.002330	363.09	-156.93	30.69	-30.61	38.40	13.77	
740	53.33	1.29	44.05	33.71	18.56	-5.80	.002340	362.28	-172.88	27.79	-30.98	38.64	9.73	
741	45.67	4.98	47.80	20.12	19.30	-24.71	.002350	366.93	-120.08	26.10	-19.04	37.59	.13	
742	34.03	20.05	43.53	1.07	10.60	-24.56	.002360	379.37	-48.66	22.54	-2.06	29.39	-1.15	
743	29.61	31.05	33.44	-5.43	2.50	-2.99	.002370	395.29	-24.88	20.08	.90	21.85	7.54	
744	32.55	33.27	27.40	5.57	9.72	18.50	.002380	401.62	-32.85	20.60	-7.87	23.22	19.11	
745	32.55	31.05	31.30	27.73	17.60	27.29	.002390	390.13	-27.54	19.93	-8.97	27.15	28.69	
746	22.61	22.86	30.71	36.59	13.84	33.64	.002400	381.14	-7.67	13.87	-1.42	22.39	31.03	
747	12.22	12.22	20.62	25.52	-.89	33.79	.002410	386.00	-3.09	7.73	2.45	10.65	23.84	
748	7.88	7.64	8.69	9.12	-8.99	25.96	.002420	391.90	-12.32	10.01	-1.66	2.52	14.24	
749	9.50	14.58	6.77	6.83	-5.01	14.58	.002430	387.99	-12.84	16.91	-10.58	3.75	12.00	
750	11.04	24.04	9.64	14.44	6.48	14.95	.002440	381.58	-10.25	19.02	-13.31	9.06	17.81	
751	11.56	27.73	11.78	19.98	11.04	17.76	.002450	378.93	-19.04	16.15	.26	11.46	21.82	
752	11.85	26.84	12.00	15.25	9.28	3.21	.002460	381.14	-8.78	14.02	16.21	11.04	15.10	
753	12.96	24.19	11.56	5.13	6.55	-24.41	.002470	385.27	31.33	17.16	15.32	10.36	1.64	
754	16.05	17.61	9.72	-8.09	10.16	-41.99	.002480	386.00	51.34	26.54	2.69	11.98	-10.82	
755	23.64	9.34	13.70	-15.47	17.53	-42.43	.002490	375.69	30.29	37.17	-3.09	18.29	-16.19	
756	32.26	2.47	21.95	-21.38	25.41	-28.25	.002500	361.18	11.02	44.19	2.42	26.54	-15.72	
757	36.97	.77	29.68	-24.12	29.02	-24.12	.002510	351.97	18.18	46.35	11.68	31.89	-15.82	
758	36.53	2.40	29.90	-16.14	29.76	-60.16	.002520	355.95	39.82	46.33	21.35	32.06	-24.63	
759	37.12	4.10	27.99	4.84	30.05	-120.50	.002530	360.07	44.84	46.50	28.35	31.72	-37.19	
760	41.76	4.10	26.15	24.92	31.97	-135.93	.002540	359.93	21.80	50.01	29.11	33.29	-35.64	
761	47.88	-6.09	31.60	30.24	32.55	-90.29	.002550	360.07	-1.24	56.52	24.11	37.34	-22.05	
762	50.53	-38.00	39.18	15.84	36.02	-38.30	.002560	360.96	15.08	59.15	16.26	41.91	-20.15	
763	48.02	-52.92	42.87	-1.88	39.48	-24.26	.002570	354.70	51.56	53.92	6.34	43.46	-26.36	
764	45.08	-12.74	39.33	-15.77	42.72	-53.51	.002580	341.95	58.65	44.66	2.84	42.38	-27.34	

	AC	AD	AE	AF	AG	AH
706	0.00701	46.25642776	47.65606308	34.76469803	80.06863403	85.51984406
707	0.00702	45.9617691	48.46637726	30.12380791	79.40565491	88.61376953
708	0.00703	37.56396484	45.22512054	24.96726227	82.64691162	86.91947937
709	0.00704	29.31349373	41.24721527	16.20113373	81.76293182	81.68926239
710	0.00705	26.07223511	37.7849617	11.04458809	73.65979004	70.49219513
711	0.00706	29.38715744	33.58605957	10.16060829	63.93601608	57.74816132
712	0.00707	28.42951393	24.74626732	11.48657703	58.48480988	49.20302582
713	0.00708	21.57867432	13.18087101	7.65600061	53.6229248	46.62475586
714	0.00709	14.80149937	6.99301577	1.39448035	42.72051239	39.99491119
715	0.0071	15.46448421	7.95066023	0.67882584	27.69286346	25.92490578
716	0.00711	16.20113373	10.38160324	7.95066023	12.66521645	9.57128906
717	0.00712	17.15877724	9.42395878	10.08694363	0.06851147	2.64678431
718	0.00713	20.03170967	9.12929916	4.193748	-8.99227619	6.99301577
719	0.00714	27.25087547	16.20113373	0.1421764	-8.55028629	22.38898849
720	0.00715	36.60632324	26.44055939	10.8972578	0.28950629	38.00595474
721	0.00716	51.11831665	31.89176559	23.64129257	11.63390732	50.23433685
722	0.00717	66.58795166	35.13302231	23.19930267	19.29506111	59.44245529
723	0.00718	76.97470856	41.54187393	12.51788616	26.07223511	69.23989105
724	0.00719	77.78502655	49.35035706	11.19191742	42.72051239	82.64691162
725	0.0072	78.15335083	53.25460052	16.27479935	71.44983673	101.6524658
726	0.00721	83.60455322	52.73894501	21.13668442	92.88633728	113.2915268
727	0.00722	89.27675629	54.5069046	22.46265411	103.4940872	115.0594864
728	0.00723	90.01340485	58.33747864	25.40925026	117.7114258	116.3117905
729	0.00724	93.84397888	60.98941803	29.60815239	131.1184387	119.5530472
730	0.00725	101.3578033	60.25276947	36.09066772	130.0134735	113.8071823
731	0.00726	103.9360809	56.7905159	38.15328598	120.5106888	103.7150803
732	0.00727	91.5603714	50.16067123	36.23799896	114.7648239	94.43330383
733	0.00728	72.18648529	40.21590424	27.76652908	110.7869186	88.76110077
734	0.00729	58.19015121	31.0077858	20.10537529	98.33753967	81.61560059
735	0.0073	56.7905159	27.10354424	18.63207626	78.00601959	70.86051941
736	0.00731	51.48664093	25.48291588	24.00961685	60.54742813	56.05386734
737	0.00732	37.71129608	24.30427742	30.05014229	54.80156326	45.51977921
738	0.00733	26.36689568	24.2306118	32.77574539	53.32626233	44.04648209
739	0.00734	23.86228752	24.74626732	29.68181801	45.66711044	47.80339432
740	0.00735	20.84202385	22.38898849	24.37794113	34.02804947	43.53082657
741	0.00736	24.59893608	17.45343781	18.19008636	29.60815239	33.43872833
742	0.00737	32.26008987	13.62286091	15.90647411	32.55474854	27.3982048
743	0.00738	30.05014229	12.51788616	17.23244286	32.55474854	31.30244637
744	0.00739	13.69652557	11.56024265	16.34846306	22.60998344	30.71312714
745	0.0074	5.88804197	8.98196888	8.31898499	12.22322655	20.62103081
746	0.00741	17.01144791	10.01327896	3.01510906	7.87699509	8.68730927
747	0.00742	29.75548172	17.37977219	3.60442853	9.49762344	6.77202129
748	0.00743	24.2306118	23.86228752	8.98196888	11.04458809	9.64495373
749	0.00744	15.46448421	20.62103081	12.37055683	11.56024265	11.78123665
750	0.00745	19.73705101	11.3392477	10.97092247	11.85490227	12.0022316
751	0.00746	39.1845932	7.58233547	4.70940256	12.95987606	11.56024265
752	0.00747	56.86418152	17.30610847	5.44605207	16.0538044	9.71861839
753	0.00748	62.31538773	33.88071823	15.31715393	23.64129257	13.69652557
754	0.00749	60.17910385	44.19380951	28.20851898	32.26008987	21.9469986
755	0.0075	61.72606659	46.10910034	31.22878075	36.97464752	29.68181801
756	0.00751	63.49402618	46.403759	29.09249878	36.53265762	29.90281296
757	0.00752	61.87339783	48.46637726	29.16616249	37.12197495	27.98752403
758	0.00753	59.36878967	52.73894501	37.93229294	41.76286697	26.14590073
759	0.00754	63.34669495	57.74816132	48.46637726	47.87705994	31.59710693
760	0.00755	66.58795166	57.60083008	53.25460052	50.52899551	39.1845932
761	0.00756	62.83103943	48.54004288	50.38166428	48.02438736	42.86784363
762	0.00757	51.19198227	36.82731628	45.9617691	45.07778931	39.33192444
763	0.00758	42.42585373	35.42768478	40.65789413	42.86784363	33.73339081
764	0.00759	41.68920135	44.26747513	38.88993454	39.6265831	29.60815239

	AI	AJ	AK	AL	AM	AN
706	31.52344131	-33.27314758	-31.1313591	20.78860092	44.27444077	33.78705215
707	38.44794464	-29.58040619	-9.3441782	13.84624481	30.83285904	30.24202156
708	45.37245178	-25.29682541	2.69416237	9.19338894	13.84624481	25.44145584
709	50.4553299	-26.77392197	2.39874315	5.86992073	6.53461456	26.54927826
710	57.15884018	-28.17716408	-1.07243478	7.12545347	10.4489212	33.63934326
711	60.17910385	-20.42240524	-2.69724154	12.4430027	18.72066498	42.94505692
712	59.58978271	-12.00295258	-8.97490406	18.05597115	27.80481148	46.19466782
713	57.74816132	-12.07680702	-22.0472126	18.27753639	36.88895798	46.49008942
714	58.63214111	-20.27469635	-22.85961533	18.94222832	44.56986237	47.45019913
715	63.1257019	-21.8995018	-5.79914522	23.81664848	49.44428253	50.10897446
716	71.08151245	-16.58195305	7.49472761	28.9126339	47.67176437	46.56394196
717	74.3964386	-11.63367844	3.65427542	25.36760139	38.88303757	38.29219818
718	79.03733063	-13.77546883	-6.38998413	14.65864754	29.72503662	28.46950531
719	84.41487122	-15.10485649	-9.78730679	4.09740448	30.6112957	23.3735199
720	87.87712097	-14.88329124	-8.60562897	3.13729167	39.03074646	20.78860092
721	87.65612793	-16.5080986	-7.49780655	11.92601871	43.46203995	19.31150436
722	87.50879669	-22.19492149	-4.46975803	23.66893959	35.48571396	15.54490662
723	81.98392487	-20.71782494	2.17717862	27.87866592	17.90826225	10.00579262
724	79.25832367	-14.51401711	5.50064659	24.62905312	-3.36193514	3.58042073
725	81.46826935	-12.15066242	-4.6174674	6.01763058	-11.85524273	3.80198526
726	84.48853302	-14.8094368	-22.63805008	-19.9054203	-2.10640264	10.15350246
727	79.99497223	-10.23043633	-28.39872932	-26.62621307	7.34701777	16.13574409
728	74.76476288	3.06343675	-14.95714664	-6.02070951	4.09740448	13.40311527
729	71.15518188	14.58479309	0.62622672	10.89205074	-3.58349967	7.49472761
730	69.09255981	11.03976059	-0.18617664	6.60846949	-4.17433834	5.35293722
731	63.64135361	-1.95869303	-11.85524273	-5.06059647	-2.91880608	9.78422832
732	59.36878967	-11.2644043	-12.00295258	-0.40774119	-13.18463039	12.81227684
733	55.4645462	-7.49780655	-0.92472512	10.22735691	-26.99548721	11.03976059
734	49.1293602	-0.03846694	3.06343675	7.93785667	-20.27469635	0.3308073
735	35.64867783	-0.11232179	-10.82127476	-8.75333881	7.1993084	-12.29837227
736	21.72600365	-8.08864498	-31.50063324	-25.00140572	23.29966545	-3.87891912
737	14.87516499	-12.8892107	-30.31895447	-48.63495636	14.73250294	23.3735199
738	18.55841255	-13.92317867	-6.98082256	-72.04694366	1.29092038	33.71319962
739	19.29506111	-7.94093561	11.77830887	-60.96871567	4.98366261	20.12390709
740	10.60259819	-3.14037061	14.51093864	-17.54206657	20.05005264	1.06935585
741	2.4994545	-7.35009718	2.76801729	7.27316332	31.05442429	-5.42987108
742	9.71861839	-14.07088852	-10.08272648	0.55237186	33.27006912	5.57450151
743	17.60076714	-12.74150085	-10.23043633	-3.95277381	31.05442429	27.73095703
744	13.84385586	-9.63959694	-0.77701545	6.16534042	22.85653687	36.59353638
745	-0.88913274	-6.61154842	0.92164612	13.03384113	12.22143841	25.51531029
746	-8.99227619	1.36477518	-21.38251877	15.02792263	7.64243746	9.11953449
747	-5.01436949	17.90826225	-69.90515137	20.27161598	14.58479309	6.83003378
748	6.4773612	26.54927826	-95.60664368	29.13419914	24.03821373	14.43708324
749	11.04458809	21.60100365	-52.10613632	31.27598953	27.73095703	19.97619629
750	9.27662945	12.66456699	11.48288918	24.48134232	26.84469795	15.24948692
751	6.55102634	8.08556652	24.25977898	13.62468052	24.18592262	5.13137245
752	10.16060829	1.36477518	2.84187222	3.87583995	17.61284256	-8.08864498
753	17.52710152	-0.26003149	-7.79322624	-1.22014451	9.34109879	-15.47413063
754	25.40925026	8.8979702	-6.09456444	4.46667862	2.47259784	-21.38251877
755	29.01883316	23.15195465	-1.22014451	13.10769653	0.77393639	-24.11514854
756	29.75548172	29.87274742	16.87429428	17.31742287	2.39874315	-16.13882446
757	30.05014229	32.08839417	38.21834564	14.73250294	4.09740448	4.83595324
758	31.96543121	35.55957031	38.66147232	13.10769653	4.09740448	24.92447281
759	32.55474854	38.58761978	19.60692215	14.14166355	-6.09456444	30.24202156
760	36.01700211	23.89050484	8.52869511	16.35730934	-37.99985886	15.84032536
761	39.47925568	-11.55982304	14.95406723	15.61876106	-52.91853714	-1.8848381
762	42.72051239	-30.46666527	22.11798859	16.87429428	-12.74150085	-15.76954937
763	44.41480637	-2.84495115	18.86837387	19.5330677	30.98056984	-35.48879623
764	46.10910034	32.67922974	15.84032536	6.97774363	24.85061646	-47.82255554

	AO	AP	AQ	AR	AS	AT
706	29.35576248	358.453949	52.22728348	42.89239502	65.70397186	-14.53863525
707	36.37197495	357.6436462	56.06773758	41.51731873	68.82245636	-8.35944653
708	40.58169937	357.9382935	53.55667114	35.91878128	71.64627838	-4.46975803
709	38.21834564	357.864624	46.46660614	28.92061424	71.30250549	-6.16841936
710	35.41186142	355.2863464	37.08703995	24.96726227	67.10360718	-7.37471533
711	30.4635849	347.4042053	19.87886047	24.37794113	60.62109375	-3.55888128
712	26.40156937	340.774353	5.10789108	21.55411911	55.75920486	-0.97396183
713	22.19184303	336.0598145	6.14185905	14.13851547	52.66527939	-5.28216124
714	18.86837387	339.5220642	23.12847328	7.72966528	47.11585617	-8.06402779
715	14.80635738	345.636261	35.38837814	8.09799004	38.91448975	-1.29399955
716	13.77238941	352.4134216	35.24066925	11.51113224	31.10600662	6.60846949
717	14.88021278	356.0966797	27.70747566	12.22322655	25.70391083	5.79606628
718	19.75463295	357.2016296	17.44165039	11.1182518	25.67935753	-1.83560181
719	24.48134232	361.5478821	5.03403616	14.53139496	32.75119019	-6.93158627
720	27.50939178	366.5570984	-3.82854557	24.64804649	42.05752563	-6.78387642
721	24.85061646	360.8112183	-4.93636847	35.550457	49.84145737	-4.02662897
722	20.34547043	359.4115906	0.82430983	41.64009094	55.41543579	-0.99857998
723	11.77830887	377.3121643	-12.98654652	43.67815781	59.0986824	3.11267328
724	4.31896925	405.0101929	-98.87973785	46.10910034	68.20858002	5.20522738
725	0.25695246	414.2919617	-243.5613861	49.22758484	84.8568573	-3.58349967
726	0.478517	405.3048401	-284.1076965	52.49339294	96.88880157	-19.11763573
727	-2.992661	394.4024353	-154.7878571	55.41543961	99.51618195	-21.75179291
728	-13.55390453	392.1924744	-22.43996811	57.92004395	102.9293289	-5.97147322
729	-30.68822861	397.6437073	-14.90677261	61.48051453	107.2755585	8.7010231
730	-37.33516693	406.8518066	-55.60079575	65.90041351	104.3044052	5.82068443
731	-27.95559883	418.711853	-40.01742172	66.29329681	95.95570374	-6.29151058
732	-15.99111462	428.361969	5.99414921	59.31967926	89.52230835	-7.89169931
733	-14.95714664	420.332489	-10.99246597	46.72297287	85.00418854	0.6016084
734	-18.20676041	397.2016907	-78.9389267	36.4344368	76.36083221	3.65427542
735	-15.10485649	374.3655701	-117.3434448	34.17537689	61.50507355	-6.56231165
736	-3.14037061	365.6730957	-124.8766403	33.65972519	46.10910034	-21.53022766
737	3.21114635	363.0948486	-156.9296417	30.68857193	38.39883423	-30.61437416
738	-5.79914522	362.2845154	-172.8822937	27.79108429	38.64438629	-30.9836483
739	-24.70598602	366.925415	-120.0760803	26.09679031	37.58852386	-19.04378128
740	-24.55827713	379.3747864	-48.65843964	22.53631783	29.38715744	-2.0571661
741	-2.992661	395.2864075	-24.87717819	20.08082008	21.84877777	0.89702779
742	18.49909973	401.6216126	-32.85350037	20.5964756	23.22385788	-7.86708117
743	27.28782654	390.1298828	-27.53595161	19.93349075	27.15265465	-8.97490406
744	33.63934326	381.1427612	-7.66899776	13.86841011	22.38898849	-1.41709065
745	33.78705215	386.0046387	-3.08999705	7.72966528	10.6517086	2.44797969
746	25.95843887	391.8978272	-12.32185364	10.01327896	2.52400947	-1.66327369
747	14.58479309	387.9935913	-12.83883762	16.91322708	3.75175834	-10.57509136
748	14.95406723	381.5847473	-10.25391769	19.02495575	9.0556345	-13.30772209
749	17.76055145	378.9328003	-19.0426445	16.15202332	11.46202278	0.25695229
750	3.21114635	381.1427612	-8.77682018	14.01574039	11.04458809	16.20959854
751	-24.41056633	385.2679749	31.32636261	17.15877724	10.35704803	15.32334232
752	-41.98802185	386.0046387	51.34102631	26.53878021	11.97767735	2.69416237
753	-42.43114853	375.6915283	30.29239464	37.17108536	18.28830719	-3.09113407
754	-28.25101852	361.1795349	11.01627922	44.19380951	26.53878021	2.42336154
755	-24.11514854	351.9714356	18.18019867	46.35464859	31.89176559	11.67983532
756	-60.15631485	355.9493408	39.81967163	46.33009338	32.06365204	21.35482216
757	-120.4957275	360.074585	44.84180069	46.50197983	31.71988106	28.34641457
758	-135.9313812	359.9272461	21.79908752	50.01334381	33.29140091	29.10957909
759	-90.28909302	360.074585	-1.24362588	56.52041245	37.3429718	24.11206818
760	-38.29528046	360.9585571	15.07829571	59.14779282	41.91019821	16.25883675
761	-24.26285744	354.6970215	51.56259155	53.91758347	43.45716095	6.33766842
762	-53.50937653	341.9530029	58.65265656	44.66035461	42.37674332	2.84187245
763	-92.57859039	334.2918396	34.94525146	39.50381088	40.33868027	11.85216331
764	-71.97309113	336.7227783	15.07829571	41.61553574	38.44794464	18.49909973

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706	35.8057518
707	32.48228455
708	26.62313271
709	23.76741219
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711	30.7097683
712	33.46701813
713	35.19029617
714	36.96281052
715	38.11987305
716	36.00269699
717	30.68515015
718	25.98305893
719	26.15538597
720	29.10957909
721	29.20805359
722	23.79203033
723	13.23078823
724	1.51248491
725	-2.59876823
726	2.84187222
727	6.83003378
728	1.31553841
729	-8.92566681
730	-12.05218887
731	-7.03005886
732	-5.45448923
733	-10.30429077
734	-12.71688271
735	-6.73464012
736	5.42679214
737	13.77238941
738	9.73499203
739	0.13386123
740	-1.14628959
741	7.54396391
742	19.11455727
743	28.69106865
744	31.02980614
745	23.84126663
746	14.2401371
747	11.99987316
748	17.80978775
749	21.82256889
750	15.10177708
751	1.63557625
752	-10.82127476
753	-16.18806076
754	-15.72031307
755	-15.81878662
756	-24.63213158
757	-37.18745804
758	-35.63650131
759	-22.0472126
760	-20.1516037
761	-26.35541153
762	-27.3401413
763	-32.36227417
764	-31.64834404

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
765								.002590	42.43	-2.84	35.43	18.87	40.66	19.53
766								.002600	41.69	32.68	44.27	15.84	38.89	6.98
767								.002610	43.60	38.44	50.68	17.83	40.95	-19.76
768								.002620	37.86	30.09	47.36	23.96	43.53	-18.35
769								.002630	28.43	36.52	37.56	38.51	41.54	17.10
770								.002640	22.98	48.26	28.36	50.48	38.23	49.44
771								.002650	27.10	47.67	26.37	45.01	33.59	54.17
772								.002660	31.23	40.73	31.23	33.05	33.22	45.68
773								.002670	27.10	42.80	30.86	29.06	34.40	39.25
774								.002680	14.06	50.04	23.27	31.28	33.00	40.29
775								.002690	3.24	52.92	19.74	31.72	24.60	39.40
776								.002700	1.47	51.59	28.13	34.89	20.99	39.33
777								.002710	3.53	54.02	37.49	41.25	23.27	40.66
778								.002720	.73	58.45	35.21	43.09	26.74	42.50
779								.002730	-.01	58.75	22.98	37.04	20.03	39.33
780								.002740	9.72	52.10	18.04	33.20	8.98	32.75
781								.002750	22.98	47.52	25.78	35.85	2.65	25.96
782								.002760	19.81	48.11	38.01	40.43	7.36	23.82
783								.002770	5.00	46.34	45.67	40.06	16.27	32.46
784								.002780	1.91	41.02	49.20	36.67	21.73	65.47
785								.002790	20.55	47.38	51.56	38.44	19.81	101.36
786								.002800	40.66	49.52	56.72	49.30	19.88	87.11
787								.002810	50.38	21.67	61.51	61.85	25.85	33.12
788								.002820	50.68	-3.21	62.61	76.40	36.31	7.72
789								.002830	46.18	18.94	57.45	78.47	43.46	6.90
790								.002840	44.78	56.98	51.56	52.18	47.73	7.49
791								.002850	51.12	67.39	47.44	31.28	47.58	26.18
792								.002860	54.21	59.93	45.67	46.27	44.27	62.00
793								.002870	50.16	58.75	40.51	69.39	36.02	80.02
794								.002880	43.09	61.04	34.10	64.81	27.25	70.94
795								.002890	38.96	60.67	27.40	27.95	22.83	57.42
796								.002900	32.19	59.64	23.27	-1.81	26.07	56.98
797								.002910	25.48	62.37	22.09	15.32	26.81	51.22
798								.002920	26.07	63.48	24.89	59.49	22.68	25.37
799								.002930	36.09	62.66	25.34	80.68	16.86	8.82
800								.002940	41.25	63.03	22.24	71.82	18.41	33.49
801								.002950	34.54	67.10	18.41	64.36	19.52	68.20
802								.002960	20.69	68.20	15.76	72.86	13.33	77.73
803								.002970	13.25	67.24	10.31	79.95	1.17	64.51
804								.002980	14.43	69.24	4.05	72.78	-4.28	66.73
805								.002990	20.62	76.33	2.57	63.03	-4.72	89.40
806								.003000	24.01	81.35	7.21	80.24	-1.77	94.79
807								.003010	19.74	80.76	10.16	129.06	3.09	71.90
808								.003020	8.54	75.52	11.34	154.17	9.87	61.70
809								.003030	4.12	72.63	12.67	120.86	11.56	78.54
810								.003040	14.73	67.76	14.06	76.25	8.83	93.46
811								.003050	31.67	61.70	17.45	67.61	4.86	86.22
812								.003060	38.01	68.50	25.92	82.83	4.41	76.03
813								.003070	35.80	84.75	32.92	92.13	3.90	78.84
814								.003080	40.81	85.78	30.64	91.25	3.09	87.33
815								.003090	60.25	73.45	25.11	86.74	4.34	90.29
816								.003100	76.75	67.24	25.11	100.11	11.78	91.10
817								.003110	78.74	74.85	26.66	126.11	15.54	93.90
818								.003120	69.61	84.60	26.59	136.67	14.21	95.38
819								.003130	58.78	90.95	24.16	116.36	12.22	92.72
820								.003140	47.73	92.28	22.83	96.05	15.02	104.76
821								.003150	41.03	89.77	18.85	95.09	13.55	138.29
822								.003160	37.56	85.12	13.55	104.10	9.13	155.65
823								.003170	36.24	79.13	8.25	105.87	8.25	123.89

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
765	42.87	30.98	33.73	-35.49	44.41	-92.58	.002590	334.29	34.95	39.50	11.85	40.34	-32.36	
766	39.63	24.85	29.61	-47.82	46.11	-71.97	.002600	336.72	15.08	41.62	18.50	38.45	-31.65	
767	34.18	.63	33.00	-19.46	43.83	-3.14	.002610	336.65	14.41	45.08	12.17	37.00	-7.33	
768	29.24	7.20	35.94	29.43	42.35	41.76	.002620	333.26	29.18	42.92	11.90	35.85	26.13	
769	24.23	34.75	33.44	48.11	39.41	38.81	.002630	332.38	45.65	35.85	30.71	32.36	40.56	
770	17.38	52.32	27.47	33.49	36.75	38.14	.002640	338.64	57.10	29.85	49.40	27.20	41.32	
771	11.27	59.41	26.59	27.73	33.37	38.81	.002650	343.87	63.90	29.02	48.95	23.74	41.98	
772	4.41	55.94	27.18	38.22	35.06	-17.54	.002660	344.60	71.36	31.89	39.82	22.22	25.54	
773	.66	25.52	26.74	30.69	33.88	-90.51	.002670	346.23	79.26	30.79	37.04	20.42	-11.44	
774	3.53	-14.81	22.68	-6.91	31.23	-75.07	.002680	356.83	79.78	23.44	40.53	19.15	-32.26	
775	7.73	-12.67	22.54	-22.34	32.26	-1.96	.002690	373.33	72.17	15.86	41.34	20.84	-12.32	
776	7.36	27.07	28.58	4.84	38.01	39.33	.002700	381.66	69.36	16.86	41.94	24.65	23.74	
777	8.61	40.43	37.71	28.99	37.56	35.56	.002710	376.06	77.63	21.43	45.31	27.96	34.99	
778	13.92	12.81	41.84	13.18	31.30	36.00	.002720	368.55	89.01	20.89	48.02	29.02	20.67	
779	17.09	-4.62	44.12	-22.27	27.91	42.65	.002730	365.08	86.05	14.33	45.04	29.71	5.25	
780	18.78	6.24	46.11	-42.87	36.61	26.55	.002740	372.01	73.05	12.25	39.35	33.83	-3.36	
781	25.78	16.06	50.38	-41.62	49.06	2.18	.002750	385.71	61.39	17.13	36.45	41.74	-7.79	
782	37.78	15.62	52.22	-30.32	56.64	2.92	.002760	399.19	57.84	21.73	37.46	48.88	-3.93	
783	47.58	19.31	54.58	-6.54	55.69	9.34	.002770	403.39	60.94	22.32	39.62	52.62	7.37	
784	52.89	27.58	56.94	30.17	52.08	13.40	.002780	391.46	65.67	24.28	47.72	53.97	23.72	
785	53.03	31.72	60.84	74.55	51.12	38.81	.002790	376.35	72.91	30.64	62.39	55.00	48.36	
786	48.76	39.25	57.23	88.44	55.69	73.08	.002800	370.83	85.54	39.09	61.97	53.89	66.92	
787	45.30	49.59	50.68	56.31	59.52	76.48	.002810	368.84	95.36	45.91	38.88	51.83	60.79	
788	47.80	42.43	47.29	22.86	60.18	55.94	.002820	363.91	96.54	49.87	26.97	51.76	40.41	
789	51.12	28.54	50.68	31.05	57.90	42.65	.002830	353.89	86.64	49.03	34.77	53.23	34.08	
790	48.32	37.04	51.34	52.40	58.71	46.05	.002840	345.93	78.22	48.02	38.88	52.79	45.16	
791	42.65	71.31	51.27	48.41	56.64	46.05	.002850	343.87	82.43	48.71	41.62	50.19	55.25	
792	41.25	92.50	52.44	24.78	52.15	40.14	.002860	349.91	97.43	48.05	56.07	48.61	52.47	
793	44.34	75.37	55.24	24.19	44.56	33.34	.002870	360.88	102.89	42.23	69.39	48.05	44.30	
794	44.05	52.18	54.14	50.04	40.36	30.76	.002880	367.74	83.10	34.81	65.59	46.16	44.32	
795	36.75	50.18	47.44	68.06	36.97	27.68	.002890	369.50	60.57	29.73	48.68	40.39	48.71	
796	27.25	52.55	38.82	62.74	35.50	29.67	.002900	370.02	59.76	27.18	38.27	33.86	48.39	
797	24.89	48.41	36.39	51.51	34.18	34.01	.002910	368.69	66.48	24.80	42.97	31.82	44.64	
798	27.55	52.84	37.86	48.26	33.29	39.40	.002920	366.70	66.41	24.55	49.44	32.90	46.83	
799	23.49	66.80	37.71	54.47	26.96	43.39	.002930	364.42	69.07	26.10	50.72	29.39	54.88	
800	15.61	73.52	32.41	67.17	16.13	52.55	.002940	361.99	82.88	27.30	56.12	21.38	64.41	
801	13.70	68.79	27.10	79.58	3.97	69.53	.002950	354.92	97.94	24.16	66.55	14.92	72.63	
802	16.05	66.28	23.64	86.67	.66	94.42	.002960	347.26	117.44	16.59	72.93	13.45	82.46	
803	16.50	74.63	24.45	117.83	4.56	126.25	.002970	342.98	142.55	8.25	70.57	15.17	106.24	
804	18.19	85.85	24.67	160.30	8.32	154.76	.002980	339.01	157.10	4.73	69.58	17.06	133.64	
805	22.39	86.52	24.75	133.49	9.28	155.28	.002990	330.83	160.87	6.16	76.25	18.80	125.10	
806	24.08	65.25	23.94	57.27	13.92	135.78	.003000	318.90	169.36	9.82	85.46	20.65	86.10	
807	22.39	33.27	23.86	40.73	17.23	122.71	.003010	306.15	185.46	11.00	93.90	21.16	65.57	
808	21.80	46.79	21.51	80.68	17.90	122.86	.003020	298.49	196.39	9.92	97.13	20.40	83.44	
809	23.71	119.75	18.71	97.30	17.38	120.20	.003030	294.51	190.04	9.45	90.68	19.93	112.42	
810	24.75	150.48	16.50	78.03	20.33	112.52	.003040	294.14	176.01	12.54	79.16	20.52	113.67	
811	24.38	73.08	16.94	64.51	20.40	103.36	.003050	291.93	164.19	17.99	71.85	20.57	80.32	
812	23.94	5.06	12.81	44.57	17.09	95.90	.003060	287.44	154.37	22.78	75.79	17.94	48.51	
813	21.51	38.88	4.86	11.70	12.44	89.03	.003070	282.73	132.14	24.21	85.24	12.94	46.54	
814	17.75	96.27	-2.66	13.11	11.41	86.81	.003080	277.13	101.93	24.84	88.12	8.83	65.40	
815	14.88	97.01	-2.88	59.71	9.72	82.97	.003090	271.68	94.55	29.90	84.16	7.24	79.90	
816	13.55	67.02	2.57	109.27	10.53	79.13	.003100	268.66	112.05	37.88	86.15	8.88	85.14	
817	14.06	58.23	7.66	115.03	10.38	73.96	.003110	272.12	129.33	40.31	98.29	10.70	82.41	
818	15.76	77.14	5.00	63.92	10.53	65.47	.003120	283.91	137.16	36.80	105.55	10.43	68.84	
819	13.99	107.79	-1.77	18.72	9.35	50.55	.003130	296.35	142.63	31.72	100.01	7.19	59.02	
820	9.94	111.85	-5.90	27.58	11.63	40.88	.003140	305.12	154.00	28.53	97.70	5.23	60.10	
821	7.51	80.02	-3.54	57.72	12.44	43.39	.003150	304.31	159.83	24.48	107.72	5.47	60.37	
822	6.77	60.23	-4.43	63.26	11.93	55.94	.003160	298.27	156.58	20.08	114.95	4.76	59.81	
823	2.79	72.78	-11.35	54.10	8.61	68.35	.003170	299.30	153.85	17.58	102.96	.02	65.08	

	AC	AD	AE	AF	AG	AH
765	0.0076	43.60449219	50.67632675	40.9525528	34.17538071	32.99673843
766	0.00761	37.85862732	47.36140442	43.53082657	29.23982811	35.94333649
767	0.00762	28.42951393	37.56396484	41.54187393	24.2306118	33.43872833
768	0.00763	22.97830772	28.35584831	38.2269516	17.37977219	27.47187042
769	0.00764	27.10354424	26.36689568	33.58605957	11.26558208	26.58789063
770	0.00765	31.22878075	31.22878075	33.21773529	4.41474295	27.17720985
771	0.00766	27.10354424	30.86045647	34.39637375	0.65783101	26.73521996
772	0.00767	14.06484985	23.27296829	32.99673843	3.53076363	22.68364906
773	0.00768	3.23610401	19.73705101	24.59893608	7.72966528	22.53631783
774	0.00769	1.46814537	28.13485336	20.98935509	7.36134052	28.57684326
775	0.0077	3.53076363	37.49030304	23.27296829	8.6136446	37.71129608
776	0.00771	0.73149592	35.20668793	26.73521996	13.91752052	41.83653259
777	0.00772	-0.00515347	22.97830772	20.03170967	17.08511353	44.12014771
778	0.00773	9.71861839	18.04275703	8.98196888	18.77940559	46.10910034
779	0.00774	22.97830772	25.77757645	2.64678431	25.77757645	50.38166428
780	0.00775	19.81071472	38.00595474	7.36134052	37.7849617	52.22328949
781	0.00776	5.00406265	45.66711044	16.27479935	47.58239746	54.58056641
782	0.00777	1.91013503	49.20302582	21.72600365	52.88627243	56.93784714
783	0.00778	20.54736519	51.56030655	19.81071472	53.03360367	60.84208679
784	0.00779	40.65789413	56.71685028	19.68436034	48.76103592	57.2325058
785	0.0078	50.38166428	61.50507355	25.85124016	45.29678616	50.67632675
786	0.00781	50.67632675	62.61004639	36.31166077	47.80339432	47.2877388
787	0.00782	46.18276596	57.45349884	43.45716095	51.11831665	50.67632675
788	0.00783	44.78313065	51.56030655	47.7297287	48.31904602	51.33930969
789	0.00784	51.11831665	47.43507004	47.58239746	42.64684677	51.26564407
790	0.00785	54.21224213	45.66711044	44.26747513	41.24721527	52.44428635
791	0.00786	50.16067123	40.5105629	36.01700211	44.34114075	55.24355316
792	0.00787	43.08883667	34.10171509	27.25087547	44.04648209	54.13857651
793	0.00788	38.96360016	27.3982048	22.83097839	36.75365067	47.43507004
794	0.00789	32.18642426	23.27296829	26.07223511	27.25087547	38.81626892
795	0.0079	25.48291588	22.09432793	26.80888557	24.89359665	36.38532639
796	0.00791	26.07223511	24.89359665	22.68364906	27.54553413	37.85862732
797	0.00792	36.09066772	25.33558655	16.86411858	23.49396324	37.71129608
798	0.00793	41.24721527	22.24165916	18.41108131	15.61181355	32.40742111
799	0.00794	34.54370499	18.41108131	19.51605606	13.69652557	27.10354424
800	0.00795	20.69469452	15.75914383	13.32820129	16.0538044	23.64129257
801	0.00796	13.25453568	10.30793858	1.17348564	16.49579239	24.45160675
802	0.00797	14.43317509	4.04641819	-4.27771997	18.19008636	24.6726017
803	0.00798	20.62103081	2.5731194	-4.71970987	22.38698849	24.74626732
804	0.00799	24.00961685	7.21401072	-1.77311206	24.08328247	23.93595314
805	0.008	19.73705101	10.16060829	3.08877397	22.38698849	23.86226752
806	0.00801	8.53997993	11.3392477	9.86594868	21.79966927	21.5050087
807	0.00802	4.12008333	12.66521645	11.56024265	23.71495819	18.70574188
808	0.00803	14.7278347	14.06484985	8.83463955	24.74626732	16.49579239
809	0.00804	31.67077065	17.45343781	4.85673285	24.37794113	16.93778229
810	0.00805	38.00595474	25.92490578	4.41474295	23.93595314	12.81254578
811	0.00806	35.79600906	32.92307663	3.89908838	21.5050087	4.85673285
812	0.00807	40.80522537	30.63946152	3.08877397	17.74809647	-2.65709138
813	0.00808	60.25276947	25.1145916	4.3410778	14.87516499	-2.87808609
814	0.00809	76.75371552	25.1145916	11.78123665	13.54919529	2.5731194
815	0.0081	78.74266815	26.66155434	15.53614888	14.06484985	7.65600061
816	0.00811	69.60821533	26.58789063	14.21218014	15.75914383	5.00406265
817	0.00812	58.77946854	24.15694809	12.22322655	13.99118519	-1.77311206
818	0.00813	47.7297287	22.83097839	15.02249432	9.93961334	-5.89634881
819	0.00814	41.02621841	18.85307121	13.54919529	7.50867033	-3.5410707
820	0.00815	37.56396484	13.54919529	9.12929916	6.77202129	-4.42504978
821	0.00816	36.23799896	8.24532032	8.24532032	2.79411435	-11.34955406
822	0.00817	32.92307663	7.28767586	16.56945801	-2.28876662	-16.13777542
823	0.00818	28.50317955	10.67626286	24.96726227	-4.64604473	-10.61290455

	AI	AJ	AK	AL	AM	AN
765	43.82548523	38.43991089	17.8344059	-19.75771141	0.62622672	-19.46229172
766	42.35218811	30.09431076	23.96435928	-18.3544693	7.1993084	29.42961693
767	39.40559006	36.51968384	38.51376343	17.09585762	34.74716568	48.11489487
768	36.75365067	48.26260376	50.4782486	49.44428253	52.32461929	33.49163437
769	33.36506653	47.67176437	45.01298904	54.1709938	59.41468811	27.73095703
770	35.05935669	40.72940826	33.04850388	45.67768478	55.94350815	38.21834564
771	33.88071823	42.79734421	29.06034279	39.25231171	25.51531029	30.68515015
772	31.22878075	50.03512192	31.27598953	40.28628159	-14.8094368	-6.90696764
773	32.26008987	52.91545868	31.71911812	39.4000206	-12.66764641	-22.34263039
774	38.00595474	51.58607101	34.89487839	39.32616806	27.0662632	4.83595324
775	37.56396484	54.0232811	41.24639511	40.65555573	40.43399048	28.98648834
776	31.30244637	58.45457458	43.09276581	42.50192642	12.81227684	13.18155098
777	27.91385841	58.74999237	37.03666687	39.32616806	-4.6174674	-22.26877594
778	36.60632324	52.10305786	33.19621658	32.75308609	6.23919535	-42.87427902
779	49.05569839	47.52405548	35.8549881	25.95843887	16.06188965	-41.61874771
780	56.64318466	48.11489487	40.43399048	23.81664848	15.61876106	-30.31895447
781	55.68554306	46.34237671	40.06471634	32.4576683	19.31150436	-6.5376935
782	52.07595825	41.02482986	36.66739273	65.47078705	27.58324623	30.16816711
783	51.11831665	47.37634659	38.43991089	101.3642426	31.71911812	74.55493164
784	55.68554306	49.51813507	49.29657364	87.11025238	39.25231171	88.43964386
785	59.5161171	21.67485809	61.85189819	33.12236023	49.59199142	56.31278229
786	60.17910385	-3.21422553	76.40129852	7.71629238	42.42807007	22.85653687
787	57.89548874	18.94222832	78.46923828	6.9038887	28.54335976	31.05442429
788	58.70580292	56.97747803	52.1769104	7.49472761	37.03666687	52.39847565
789	56.64318466	67.39100647	31.27598953	26.18000412	71.30532074	48.41031265
790	52.14962387	59.93167114	46.26852417	61.99960709	92.50165558	24.77676201
791	44.5621376	58.74999237	69.38509369	80.02018738	75.36733246	24.18592262
792	40.36323547	61.03949356	64.80609131	70.93604279	52.1769104	50.03512192
793	36.97464752	60.67021942	27.95252037	57.42060471	50.18283081	68.05570221
794	35.50134659	59.63624954	-1.8109833	56.97747803	52.54618454	62.73815536
795	34.17538071	62.36888123	15.32334137	51.21679688	48.41031265	51.51221848
796	33.29140091	63.47670364	59.48854065	25.36760139	52.84160614	48.26260376
797	26.9562149	62.66429901	80.68488312	8.8241148	66.8001709	54.46641159
798	16.12746811	63.03357315	71.82230377	33.49163437	73.52096558	67.16944885
799	3.97275329	67.09558868	64.36296082	68.20341492	68.79425049	79.57705688
800	0.65783101	68.20341492	72.85626984	77.73069	66.28318787	86.66712189
801	4.56207275	67.24330139	79.94633484	64.51067352	74.62878418	117.8338699
802	8.31898499	69.23738098	72.7824173	66.72631836	85.85472107	160.300415
803	9.27662945	76.32744598	63.03357315	89.39975739	86.51941681	133.4911041
804	13.91752052	81.34957886	80.24175262	94.79116058	65.2492218	57.27289581
805	17.23244286	80.75873566	129.0598145	71.89615631	33.27006912	40.72940826
806	17.8954277	75.51504517	154.1704559	61.70418549	46.7855072	80.68488312
807	17.37977219	72.63470459	120.8619232	78.54309082	119.754097	97.30222321
808	20.32637024	67.76028442	76.25359344	93.4617691	150.4777222	78.02610779
809	20.40003586	61.70418549	67.61257172	86.22399902	73.07783508	64.51067352
810	17.08511353	68.4988327	82.82667542	76.0320282	5.05751753	44.56986237
811	12.4442215	84.74690247	92.13238525	78.83850861	38.88303757	11.70445442
812	11.41291237	85.78086853	91.24612427	87.33181763	96.26825714	13.10769653
813	9.71861839	73.44710541	88.73506165	90.28601074	97.00680542	59.7101059
814	10.52893353	67.24330139	100.1087112	91.09841919	67.02173615	109.2667084
815	10.38160324	74.85034943	126.1056137	93.9048996	58.23300934	115.0273895
816	10.52893353	84.59918976	136.6668549	95.38199615	77.1398468	63.91983032
817	9.35029411	90.95070648	116.3567734	92.72322083	107.7896118	18.72066498
818	11.63390732	92.28009033	96.04669189	104.7615662	111.8516312	27.58324623
819	12.4442215	89.76902771	95.08657837	138.2916718	80.02018738	57.71602631
820	11.92856693	85.11617279	104.0968704	155.6475525	60.22708893	63.2551384
821	8.6136446	79.13393402	105.8693848	123.8899689	72.7824173	54.09713745
822	6.18270159	75.81046295	102.1766434	89.62132263	86.07628632	57.12518692
823	1.46814537	83.56522369	100.8472595	92.3539505	74.92420197	77.21370697

	AO	AP	AQ	AR	AS	AT
765	-3.14037061	336.6491089	14.41360188	45.07778931	36.99920273	12.17220211
766	41.76337814	333.2605286	29.18457222	42.91695404	35.84511566	11.90140057
767	38.80918503	332.3765564	45.65420151	35.84511566	32.3583107	30.7097683
768	38.14448929	338.6380615	57.10170364	29.85370255	27.20176506	49.39504623
769	38.80918503	343.8682861	63.89635086	29.01883316	23.7395134	48.95191574
770	-17.54206657	344.60495	71.35569	31.89176559	22.21710396	39.81853104
771	-90.51065826	346.2255554	79.25815582	30.78679085	20.42458916	37.03666687
772	-75.07499695	356.833313	79.77514648	23.44485283	19.14773178	40.53246307
773	-1.95869303	373.334259	72.16809082	15.8573637	20.84202385	41.34486389
774	39.32616806	381.6584168	69.36161041	16.86411858	24.64804649	41.93570709
775	35.55957031	376.0598755	77.63335419	21.43134499	27.96296883	45.30841064
776	36.00270081	368.546051	89.00699615	20.89113426	29.01883316	48.01642227
777	42.64963531	365.0838013	86.05280304	14.33495426	29.70637321	45.0376091
778	26.54927826	372.0083008	73.05435181	12.24778175	33.83161163	39.35078812
779	2.17717862	385.7099609	61.38528442	17.13422203	41.73831177	36.44582748
780	2.9157269	399.1906433	57.84025192	21.72600365	48.88381195	37.45517731
781	9.34109879	403.3895569	60.94215775	22.31532478	52.61616898	39.62158585
782	13.40311527	391.4558411	65.66886902	24.27972221	53.96669388	47.72100449
783	38.80918503	376.3545227	72.9066391	30.63946152	54.9980011	62.39350128
784	73.07783508	370.8296509	85.53582001	39.08637619	53.89302826	61.97498703
785	76.47515869	368.8406982	95.35851288	45.91265869	51.83041	38.88303757
786	55.94350815	363.9051514	96.54019165	49.86601257	51.75674438	26.9677887
787	42.64963531	353.8867188	86.64364624	49.03114319	53.23004532	34.77178574
788	46.04695892	345.9309082	78.22418976	48.02438736	52.78805161	38.88303757
789	46.04695892	343.8682861	82.43391418	48.71192932	50.18522644	41.61566544
790	40.13856888	349.9088135	97.42645264	48.04894257	48.6137085	56.0666008
791	33.34392548	360.8848877	102.8917084	42.22941208	48.04894257	69.38509369
792	30.75900459	367.7357178	83.09860992	34.81380844	46.18276596	65.59387207
793	27.87866592	369.5036926	60.57288361	29.73092842	40.38779068	48.6811142
794	29.87274742	370.0193481	59.76047897	27.17720985	33.85616302	38.26758194
795	34.0086174	368.6933594	66.48126984	24.79537582	31.81810188	42.96967316
796	39.4000206	366.7044067	66.4074173	24.54982758	32.89852142	49.44428253
797	43.38818359	364.4208069	69.06619263	26.09679031	29.38715744	50.7244339
798	52.54618454	361.9898682	82.87704468	27.29998589	21.38223457	56.1158371
799	69.53279877	354.9180298	97.94343567	24.15694809	14.92427444	66.5539856
800	94.42188263	347.2568665	117.4411163	16.59401321	13.45097637	72.93012238
801	126.2533264	342.984314	142.5517578	8.24532032	15.16982365	70.56677246
802	154.7612915	339.0064087	157.1011658	4.73395777	17.06055832	69.58203888
803	155.2782745	330.8295898	160.8677673	6.15814686	18.80396271	76.25359344
804	135.7805939	318.895874	169.3610687	9.81683826	20.64558601	85.46083069
805	122.7082901	306.151825	185.4614258	10.99547768	21.16123962	93.9048996
806	122.8560028	298.4906921	196.3919525	9.91505909	20.40003586	97.12989807
807	120.1972275	294.5127869	190.0404358	9.44851398	19.93349075	90.67990875
808	112.5163193	294.1444397	176.0080109	12.54244137	20.52280998	79.15854645
809	103.3583221	291.9345093	164.1912384	17.99364662	20.57192039	71.8469162
810	95.89897919	287.4409485	154.3685455	22.78186798	17.94453812	75.7858429
811	89.03047943	282.7263794	132.1382294	24.2060585	12.93532085	85.23926544
812	86.81483459	277.1278381	101.9315949	24.84448624	8.83463955	88.11960602
813	82.97438049	271.6766357	94.54611206	29.90281296	7.23856592	84.15605927
814	79.13393402	268.6563721	112.0497131	37.88318253	8.88374901	86.15014648
815	73.96408844	272.1186218	129.3317413	40.31412506	10.70081806	98.28695679
816	65.47078705	283.9050293	137.1603546	36.80276108	10.43071365	105.5493469
817	50.55210495	296.3544006	142.6256256	31.71988106	7.18945599	100.010231
818	40.87712097	305.1205139	153.9992676	28.52773285	5.22505713	97.69611359
819	43.38818359	304.3102112	159.8338013	24.47616196	5.4706068	107.7157593
820	55.94350815	298.2696838	156.5841827	20.08082008	4.75851297	114.9535294
821	68.35112	299.3009949	153.8515625	17.57621384	0.01940163	102.9644318
822	79.2816391	310.0560913	156.1410523	18.92673683	-4.08128023	89.20281219
823	86.22399902	320.7374878	163.8219605	21.38223457	-4.5969348	92.25547791

	AU
765	-7.32547855
766	26.13076782
767	40.55708313
768	41.32024765
769	41.98494339
770	25.53992844
771	-11.43673229
772	-32.26380157
773	-12.32299042
774	23.74279404
775	34.99335098
776	20.66551018
777	5.25446415
778	-3.36193514
779	-7.79322624
780	-3.92815542
781	7.37163639
782	23.71817589
783	48.36107635
784	66.92326355
785	60.79331207
786	40.40937042
787	34.08247375
788	45.16070175
789	55.25419617
790	52.47232819
791	44.29906082
792	44.32367706
793	48.70573425
794	48.38569641
795	44.6437149
796	46.8347435
797	54.88492203
798	64.41220093
799	72.63470459
800	82.45739746
801	106.2386627
802	133.6388092
803	125.0962677
804	86.10090637
805	65.56925964
806	83.44213104
807	112.4178467
808	113.6733856
809	80.31561279
810	48.50878525
811	46.5393219
812	65.39692688
813	79.89709473
814	85.14079285
815	82.40816498
816	68.8434906
817	59.02079391
818	60.10400009
819	60.37479782
820	59.80857849
821	65.07688904
822	74.16104126
823	79.45397186

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
824								.003180	32.92	75.81	7.29	102.18	16.57	89.62
825								.003190	28.50	83.57	10.68	100.85	24.97	92.35
826								.003200	20.25	98.34	17.01	103.51	28.43	112.96
827								.003210	9.87	108.53	18.93	107.27	23.86	114.07
828								.003220	2.06	108.53	14.51	111.19	19.74	101.88
829								.003230	-1.70	105.43	5.89	112.22	17.23	95.23
830								.003240	-3.76	105.28	1.84	110.30	20.40	104.17
831								.003250	-4.43	108.09	2.79	107.86	25.04	114.95
832								.003260	-1.99	109.19	4.93	109.12	26.59	118.57
833								.003270	5.00	108.45	4.93	112.07	20.40	114.29
834								.003280	13.64	109.27	4.19	109.93	14.43	112.96
835								.003290	22.02	115.69	1.91	99.15	14.51	125.37
836								.003300	27.47	122.56	3.53	88.44	21.36	157.27
837								.003310	34.47	122.71	10.75	84.60	26.66	166.73
838								.003320	42.43	115.47	20.62	90.36	32.41	137.48
839								.003330	52.15	112.89	24.23	103.28	34.54	108.90
840								.003340	61.58	117.61	21.80	117.83	30.05	101.88
841								.003350	68.72	125.29	20.40	118.57	20.18	100.99
842								.003360	69.24	127.44	26.00	107.05	19.59	109.41
843								.003370	67.62	124.85	32.26	101.22	26.96	121.53
844								.003380	67.18	121.08	36.31	106.53	35.06	126.99
845								.003390	68.43	119.61	36.24	110.82	33.59	122.12
846								.003400	66.07	121.38	37.56	120.20	29.68	119.02
847								.003410	60.03	126.25	36.83	117.32	28.65	119.31
848								.003420	52.44	130.39	33.29	88.22	34.69	118.72
849								.003430	47.44	131.94	25.41	68.20	38.60	110.30
850								.003440	41.69	141.91	18.34	78.32	39.04	102.62
851								.003450	32.85	165.69	16.42	88.59	35.35	103.80
852								.003460	22.54	170.71	21.43	84.23	33.95	117.76
853								.003470	16.35	140.73	27.47	80.17	33.07	133.64
854								.003480	11.71	110.74	29.31	86.52	33.73	139.33
855								.003490	7.73	107.20	25.78	91.69	35.65	124.63
856								.003500	7.21	113.40	21.06	86.96	38.82	105.28
857								.003510	11.78	110.60	19.59	79.58	37.71	95.75
858								.003520	18.71	103.58	21.95	79.72	34.76	97.60
859								.003530	27.55	105.50	22.90	82.46	32.70	100.99
860								.003540	36.83	111.93	23.20	81.72	34.40	105.20
861								.003550	44.71	113.55	22.39	77.36	36.24	106.76
862								.003560	49.94	108.09	21.21	76.92	35.87	104.54
863								.003570	55.83	103.88	20.69	79.06	32.55	100.26
864								.003580	60.99	106.90	23.71	84.01	31.45	100.11
865								.003590	66.15	113.92	28.43	86.44	30.93	100.03
866								.003600	69.68	116.50	32.41	90.80	31.08	102.03
867								.003610	71.60	115.18	31.08	88.00	28.95	104.98
868								.003620	71.82	113.40	28.95	83.27	29.76	112.59
869								.003630	71.01	114.95	28.06	77.51	31.89	116.14
870								.003640	66.15	116.36	29.90	75.00	36.83	114.73
871								.003650	58.93	117.32	28.58	73.23	38.30	109.71
872								.003660	54.65	118.72	27.40	74.26	36.83	110.60
873								.003670	56.13	121.08	27.40	75.22	34.62	118.65
874								.003680	57.60	120.12	28.13	75.22	37.20	124.92
875								.003690	54.58	116.80	26.29	71.45	40.51	119.24
876								.003700	49.35	114.44	25.11	65.84	42.72	119.53
877								.003710	46.55	112.29	27.99	61.70	40.81	130.76
878								.003720	46.70	109.41	30.57	58.90	40.51	125.00
879								.003730	46.33	108.75	29.39	55.50	39.04	96.34
880								.003740	38.96	110.89	26.22	52.40	36.83	81.28
881								.003750	28.65	111.93	22.17	52.32	34.84	91.39
882								.003760	22.54	108.82	18.85	54.32	36.46	102.99

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
824	-2.29	86.08	-16.14	57.13	6.18	79.28	.003180	310.06	156.14	18.93	89.20	-4.08	74.16	
825	-4.65	74.92	-10.61	77.21	1.47	86.22	.003190	320.74	163.82	21.38	92.26	-4.60	79.45	
826	-3.47	60.15	-3.76	94.13	-3.32	91.39	.003200	318.09	173.20	21.90	104.93	-3.52	81.89	
827	-1.48	72.19	-1.48	97.89	-6.49	91.76	.003210	307.04	182.80	17.55	109.96	-3.15	87.28	
828	-2.80	94.79	-4.28	94.94	-5.01	89.18	.003220	298.86	189.15	12.10	107.20	-4.03	92.97	
829	-5.75	98.19	-6.12	94.20	-1.48	92.72	.003230	296.94	186.94	7.14	104.29	-4.45	95.04	
830	-6.34	81.05	-4.57	91.54	1.32	109.86	.003240	298.27	179.26	6.16	106.58	-3.20	94.15	
831	-3.54	59.05	.51	82.24	.73	129.43	.003250	299.23	174.97	7.80	110.30	-.77	90.24	
832	-1.85	45.68	2.65	74.26	1.62	136.45	.003260	303.65	176.01	9.84	112.29	.81	85.46	
833	-2.66	58.75	1.91	79.28	4.41	127.66	.003270	312.05	178.08	10.11	111.61	1.22	88.56	
834	-3.25	89.62	-.15	89.18	7.51	116.65	.003280	316.91	177.19	10.82	110.72	1.37	98.48	
835	-.59	105.50	1.10	96.79	5.00	105.94	.003290	314.18	170.54	12.81	113.40	1.84	102.74	
836	5.00	100.92	3.46	98.34	7.36	97.45	.003300	311.16	160.65	17.45	122.76	5.27	98.90	
837	9.35	94.72	6.33	95.68	16.94	92.06	.003310	315.21	155.62	23.96	124.68	10.87	94.15	
838	13.40	94.42	5.89	88.66	26.44	93.31	.003320	320.15	154.15	31.82	114.44	15.24	92.13	
839	16.20	90.06	5.45	82.53	26.22	92.87	.003330	320.88	150.82	36.97	108.36	15.96	88.49	
840	16.13	77.80	5.67	78.84	24.30	88.14	.003340	323.68	146.69	37.81	112.44	15.37	81.60	
841	14.43	72.12	5.81	78.10	23.13	75.88	.003350	330.61	147.65	36.43	114.95	14.46	75.37	
842	15.17	77.14	4.19	74.85	23.79	65.54	.003360	338.86	153.11	38.28	114.63	14.38	72.51	
843	17.67	80.68	6.04	72.19	23.57	62.07	.003370	339.60	157.84	42.28	115.86	15.76	71.65	
844	19.15	79.13	10.46	74.26	27.10	63.33	.003380	335.91	161.31	46.18	118.20	18.90	72.24	
845	20.18	79.13	17.01	79.36	32.85	59.56	.003390	333.56	167.22	46.08	117.51	23.35	72.68	
846	20.92	81.20	22.09	77.66	39.26	56.90	.003400	330.68	167.74	44.44	120.20	27.42	71.92	
847	20.47	79.87	27.69	74.70	41.54	61.93	.003410	324.27	161.09	41.84	120.96	29.90	72.17	
848	19.30	80.39	27.84	74.26	38.60	75.81	.003420	317.50	153.56	40.14	112.44	28.58	76.82	
849	17.01	85.41	20.77	73.82	31.23	90.06	.003430	319.04	150.16	37.15	103.48	23.00	83.10	
850	13.18	85.26	13.84	68.35	26.29	95.53	.003440	327.74	152.82	33.02	107.62	17.77	83.05	
851	12.67	75.74	18.12	64.88	24.16	91.47	.003450	332.08	158.87	28.21	119.36	18.31	77.36	
852	18.12	67.76	27.03	67.46	20.84	91.54	.003460	329.06	164.93	25.97	124.23	22.00	75.59	
853	22.98	79.21	30.64	69.31	13.70	99.07	.003470	322.06	166.41	25.63	116.18	22.44	82.53	
854	20.92	108.53	26.06	58.90	8.69	99.96	.003480	320.44	166.55	24.92	112.20	19.22	89.13	
855	14.88	108.38	27.10	43.24	8.25	89.92	.003490	324.49	170.25	23.05	107.84	16.74	80.51	
856	11.85	67.17	28.87	35.12	11.27	86.52	.003500	328.40	174.53	22.36	101.88	17.33	62.94	
857	11.93	39.77	31.97	39.92	10.90	89.33	.003510	331.20	175.42	23.03	95.31	18.26	56.34	
858	11.63	53.95	29.83	43.39	9.42	86.52	.003520	333.41	173.05	25.14	93.63	16.96	61.29	
859	10.31	74.85	27.40	38.07	8.69	75.29	.003530	337.53	172.39	27.72	96.32	15.46	62.74	
860	8.61	73.89	27.77	34.01	12.44	72.19	.003540	343.06	174.09	31.47	99.62	16.27	60.03	
861	6.33	64.07	29.17	41.39	14.21	76.77	.003550	346.67	174.97	34.45	99.22	16.57	60.74	
862	8.32	66.28	25.11	51.29	13.62	82.24	.003560	345.86	176.08	35.67	96.51	15.69	66.60	
863	14.43	75.15	23.13	54.39	11.49	84.16	.003570	339.15	174.97	36.36	94.40	16.35	71.23	
864	20.62	79.72	27.32	53.14	15.39	87.18	.003580	332.82	171.95	38.72	97.01	21.11	73.35	
865	23.35	79.72	31.67	56.68	21.06	88.00	.003590	334.66	168.18	41.84	100.80	25.36	74.80	
866	25.19	78.54	29.90	60.82	27.47	86.59	.003600	339.82	163.45	44.39	103.11	27.52	75.32	
867	28.28	73.96	30.05	60.52	29.46	81.42	.003610	342.10	161.38	43.87	102.72	29.26	71.97	
868	30.64	65.69	34.25	55.50	27.99	77.44	.003620	340.26	159.02	43.51	103.09	30.96	66.21	
869	28.72	58.97	34.84	51.00	23.71	74.33	.003630	340.11	153.70	43.65	102.87	29.09	61.43	
870	22.98	55.06	26.81	45.83	23.42	72.49	.003640	341.14	145.28	44.29	102.03	24.40	57.79	
871	21.36	54.17	20.47	39.77	24.89	65.54	.003650	340.70	140.93	41.93	100.08	22.24	53.16	
872	25.34	50.33	20.62	31.79	27.91	55.13	.003660	341.07	144.25	39.63	101.19	24.62	45.75	
873	28.80	42.21	24.67	27.21	28.58	44.72	.003670	340.92	147.35	39.38	104.98	27.35	38.05	
874	26.81	36.52	23.57	25.81	27.99	39.03	.003680	338.71	145.58	40.98	106.76	26.12	33.79	
875	21.95	37.18	19.88	26.40	26.22	33.71	.003690	335.03	142.26	40.46	102.50	22.68	32.43	
876	19.15	46.64	15.46	31.28	24.23	28.69	.003700	331.27	141.00	39.06	99.94	19.61	35.53	
877	19.88	66.50	11.93	57.57	18.12	25.68	.003710	331.86	144.69	38.45	101.59	16.64	49.99	
878	23.13	69.53	7.80	85.63	11.49	28.47	.003720	330.53	147.65	39.26	97.77	14.14	61.21	
879	25.04	39.77	6.62	69.83	6.70	31.42	.003730	326.63	150.45	38.25	86.86	12.79	47.01	
880	22.83	15.54	7.95	23.45	8.25	33.42	.003740	322.14	153.41	34.00	81.52	13.01	24.14	
881	15.91	24.63	8.69	6.24	9.42	31.87	.003750	321.62	154.44	28.55	85.21	11.34	20.91	
882	9.72	43.09	5.52	21.23	10.60	31.87	.003760	326.19	153.63	25.95	88.71	8.61	32.06	

	AC	AD	AE	AF	AG	AH
824	0.00819	20.25270462	17.01144791	28.42951393	-3.4674058	-3.76206541
825	0.0082	9.86594868	18.92673683	23.86228752	-1.47845232	-1.47845232
826	0.00821	2.05746484	14.50683975	19.73705101	-2.80442119	-4.27771997
827	0.00822	-1.69944715	5.88804197	17.23244286	-5.751019	-6.11934376
828	0.00823	-3.76206541	1.83647001	20.40003586	-6.34033823	-4.57237959
829	0.00824	-4.42504978	2.79411435	25.04092598	-3.5410707	0.51050109
830	0.00825	-1.99410689	4.93039751	26.58789063	-1.84677696	2.64678431
831	0.00826	5.00406265	4.93039751	20.40003586	-2.65709138	1.91013503
832	0.00827	13.84385586	4.193748	14.43317509	-3.24641085	-0.15248336
833	0.00828	22.02066422	1.91013503	14.50683975	-0.594473	1.09962061
834	0.00829	27.47187042	3.53076363	21.35767937	5.00406265	3.45709872
835	0.0083	34.47003937	10.74992752	26.66155434	9.35029411	6.33003139
836	0.00831	42.42585373	20.62103081	32.40742111	13.40186596	5.88804197
837	0.00832	52.14962387	24.2306118	34.54370499	16.20113373	5.44605207
838	0.00833	61.57873535	21.79966927	30.05014229	16.12746811	5.66704702
839	0.00834	68.72423553	20.40003586	20.17904091	14.43317509	5.81437683
840	0.00835	69.23989105	25.9985714	19.58972168	15.1698246	4.193748
841	0.00836	67.6192627	32.26008987	26.9562149	17.67443275	6.03537178
842	0.00837	67.17726898	36.31166077	35.05935669	19.14773178	10.45526791
843	0.00838	68.42957306	36.23799896	33.58605957	20.17904091	17.01144791
844	0.00839	66.07229614	37.56396484	29.68181801	20.91568947	22.09432793
845	0.0084	60.03177261	36.82731628	28.65050888	20.47369957	27.69286346
846	0.00841	52.44428635	33.29140091	34.69103241	19.29506111	27.8401947
847	0.00842	47.43507004	25.40925026	38.59527588	17.01144791	20.76836014
848	0.00843	41.68920135	18.3374176	39.03726578	13.18087101	13.84385586
849	0.00844	32.84941101	16.42212868	35.35401917	12.66521645	18.11642265
850	0.00845	22.53631783	21.43134499	33.95438385	18.11642265	27.02988052
851	0.00846	16.34846306	27.47187042	33.07040405	22.97830772	30.63946152
852	0.00847	11.70757198	29.31349373	33.73339081	20.91568947	28.06118965
853	0.00848	7.72966528	25.77757645	35.64867783	14.87516499	27.10354424
854	0.00849	7.21401072	21.0630188	38.81626892	11.85490227	28.87150383
855	0.0085	11.78123665	19.58972168	37.71129608	11.92856693	31.96543121
856	0.00851	18.70574188	21.9469986	34.76469803	11.63390732	29.82914734
857	0.00852	27.54553413	22.90464401	32.70207977	10.30793858	27.3982048
858	0.00853	36.82731628	23.19930267	34.39637375	8.6136446	27.76652908
859	0.00854	44.70946503	22.38898849	36.23799896	6.33003139	29.16616249
860	0.00855	49.93967819	21.21035004	35.86967087	8.31898499	25.1145916
861	0.00856	55.83287048	20.69469452	32.55474854	14.43317509	23.12563705
862	0.00857	60.98941803	23.71495819	31.4497757	20.62103081	27.32453918
863	0.00858	66.14596558	28.42951393	30.93412209	23.346632	31.67077065
864	0.00859	69.68187714	32.40742111	31.08145142	25.18625722	29.90281296
865	0.0086	71.59716797	31.08145142	28.94516754	28.2821846	30.05014229
866	0.00861	71.81816101	28.94516754	29.75548172	30.63946152	34.24904251
867	0.00862	71.00785065	28.06118965	31.89176559	28.72417259	34.83836365
868	0.00863	66.14596558	29.90281296	36.82731628	22.97830772	26.80888557
869	0.00864	58.92679977	28.57684326	38.30061722	21.35767937	20.47369957
870	0.00865	54.65423203	27.3982048	36.82731628	25.33558655	20.62103081
871	0.00866	56.12753296	27.3982048	34.61737061	28.79783821	24.6726017
872	0.00867	57.60083008	28.13485336	37.19564056	26.80888557	23.56762695
873	0.00868	54.58056641	26.29323006	40.5105629	21.9469986	19.88436034
874	0.00869	49.35035706	25.1145916	42.72051239	19.14773178	15.46446421
875	0.0087	46.55109024	27.98752403	40.60522537	19.88436034	11.92856693
876	0.00871	46.69841766	30.56579781	40.5105629	23.12563705	7.80333042
877	0.00872	46.33009338	29.38715744	39.03726578	25.04092598	6.62469101
878	0.00873	38.96360016	26.21956635	36.82731628	22.83097839	7.95066023
879	0.00874	28.65050888	22.16799355	34.83836365	15.90647411	8.68730927
880	0.00875	22.53631783	18.85307121	36.458992	9.71861839	5.51971722
881	0.00876	20.32637024	16.49579239	37.04831314	7.50867033	2.20479465
882	0.00877	15.31715393	17.37977219	37.26930618	8.98196888	-1.62578213

	AI	AJ	AK	AL	AM	AN
824	-3.32007575	98.33618927	103.5060272	112.9594498	60.15323639	94.12646484
825	-6.48766804	108.5281601	107.2726288	114.067276	72.1915741	97.89305878
826	-5.01436949	108.5281601	111.1869354	101.8812256	94.79116058	94.93886566
827	-1.47845232	105.4262543	112.2209015	95.23429108	98.18848419	94.20031738
828	1.32081544	105.2785492	110.3006744	104.170723	81.05415344	91.54154205
829	0.73149592	108.0850296	107.8634644	114.9535294	59.04541016	82.23583221
830	1.61547518	109.1928558	109.1190033	118.5724182	45.67768478	74.25951385
831	4.41474295	108.4543076	112.0731964	114.2888413	58.74999237	79.2816391
832	7.50867033	109.2667084	109.9314041	112.9594498	89.62132263	89.17819214
833	5.00406265	115.6920776	99.14859772	125.3670654	105.5001144	96.78524017
834	7.36134052	122.560585	88.43964386	157.2723541	100.9211121	98.33618927
835	16.93778229	122.7082901	84.59918976	166.7257843	94.71730042	95.67741394
836	26.44055939	115.47052	90.35987091	137.4792633	94.42188263	88.66120911
837	26.21956635	112.8855972	103.2844696	108.8974381	90.0644455	82.53125763
838	24.30427742	117.6123047	117.8338699	101.8812256	77.80454254	78.83850861
839	23.12563705	125.2932129	118.5724182	100.9949646	72.11772156	78.09996033
840	23.7886219	127.4350052	107.0510635	109.4144211	77.1398468	74.85034943
841	23.56762695	124.8500824	101.2165299	121.5266113	80.68488312	72.1915741
842	27.10354424	121.0834885	106.5340805	126.9918747	79.13393402	74.25951385
843	32.84941101	119.6063843	110.8176575	122.1174545	79.13393402	79.35549927
844	39.25825882	121.3789063	120.1972275	119.0155487	81.20186615	77.65683746
845	41.54187393	126.2533264	117.3168869	119.3109665	79.8724823	74.70263672
846	38.59527588	130.3891907	88.21807861	118.7201309	80.38946533	74.25951385
847	31.22878075	131.940155	68.20341492	110.3006744	85.41159058	73.81638336
848	26.29323006	141.910553	78.32152557	102.6197739	85.2638855	68.35112
849	24.15694809	165.6918182	88.58734894	103.8014526	75.73661041	64.87994385
850	20.84202385	170.7139435	84.2299118	117.7600174	67.76028442	67.46486664
851	13.69652557	140.7288818	80.16790009	133.6388092	79.20778656	69.31123352
852	8.68730927	110.7438049	86.51941681	139.3256378	108.5281601	58.89770126
853	8.24532032	107.1987763	91.68925476	124.6285172	108.3804474	43.2404747
854	11.26558208	113.4025803	86.9625473	105.2785492	67.16944885	35.11643982
855	10.8972578	110.5960999	79.57705688	95.75127411	39.76929474	39.91700745
856	9.42395878	103.5798874	79.72476959	97.59764099	53.94942856	43.38818359
857	8.68730927	105.5001144	82.45739746	100.9949646	74.85034943	38.07063675
858	12.4442215	111.9254837	81.71884918	105.204689	73.8902359	34.0086174
859	14.21218014	113.550293	77.36141205	106.7556458	64.06754303	41.394104
860	13.62286091	108.0850296	76.91828918	104.5400009	66.28318787	51.29065323
861	11.48657703	103.8753052	79.06007385	100.2564163	75.14576721	54.39255524
862	15.39081955	106.9033508	84.00835419	100.1087112	79.72476959	53.13702393
863	21.0630188	113.9195633	88.43964386	100.0348511	79.72476959	56.68205643
864	27.47187042	116.5044861	90.80299377	102.0289307	78.54309082	60.81792831
865	29.46082306	115.1750946	87.99651337	104.9831314	73.96408844	60.52251053
866	27.98752403	113.4025803	83.26980591	112.5901794	65.69234467	55.50037766
867	23.71495819	114.9535294	77.50912476	116.1352081	58.97155762	50.99523544
868	23.42029762	116.3567734	74.99806213	114.7319717	55.05725098	45.82539368
869	24.89359665	117.3168869	73.22554016	109.7098389	54.1709938	39.76929474
870	27.91385841	118.7201309	74.25951385	110.5960999	50.3305397	31.79297256
871	28.57684326	121.0834885	75.21962738	118.6462784	42.20650482	27.21397209
872	27.98752403	120.1233749	75.21962738	124.9239349	36.51968384	25.81072998
873	26.21956635	116.7999039	71.45302582	119.237114	37.18437576	26.40156937
874	24.2306118	114.4365463	65.84005737	119.5325317	46.63779831	31.27598953
875	18.11642265	112.2947617	61.70418549	130.7584686	66.50475311	57.5683136
876	11.48657703	109.4144211	58.89770126	124.9977951	69.53279877	85.63315582
877	6.69835615	108.7497253	55.50037766	96.34210968	39.76929474	69.82821655
878	8.24532032	110.8915176	52.39847565	81.27571869	15.54490662	23.44737434
879	9.42395878	111.9254837	52.32461929	91.39383698	24.62905312	6.23919535
880	10.60259819	108.8235779	54.3187027	102.9890442	43.09276581	21.23172951
881	10.30793858	107.494194	54.90954208	99.81328583	44.42215347	31.42369843
882	11.48657703	109.7098389	62.88586426	95.52970886	37.18437576	22.85653687

	AO	AP	AQ	AR	AS	AT
824	91.39383698	318.0855713	173.2015228	21.89788818	-3.51651573	104.9338913
825	91.7631073	307.0358276	182.8026581	17.55165863	-3.14819098	109.9560242
826	89.17819214	298.8590088	189.1541748	12.10045147	-4.0321703	107.1987763
827	92.72322083	296.9437256	186.9385223	7.14034605	-4.44960499	104.2938156
828	109.8575516	298.2696838	179.2576294	6.15814686	-3.19730091	106.583313
829	129.4290772	299.2273254	174.9740448	7.80333042	-0.7663579	110.3006744
830	136.4452972	303.6472168	176.0080109	9.84139347	0.80516082	112.2947617
831	127.6565628	312.045044	178.075943	10.11149883	1.22259557	111.6054459
832	116.6521912	316.9069214	177.189682	10.82359314	1.36992538	110.7191849
833	105.9432373	314.1813049	170.5427551	12.81254673	1.83647013	113.4025803
834	97.44993591	311.1610413	160.6462097	17.45343781	5.27416706	122.7575302
835	92.05853271	315.212616	155.6240692	23.96050644	10.8727026	124.6777573
836	93.31406403	320.1481628	154.1469727	31.81810188	15.24348927	114.436554
837	92.87093353	320.8848267	150.8235016	36.97464752	15.95558357	108.355835
838	88.14422607	323.684082	146.6876373	37.80951691	15.36626434	112.4424667
839	75.88431549	330.6086121	147.6477509	36.4344368	14.45772934	114.9535294
840	65.54463959	338.8590698	153.1130066	38.27606201	14.38406467	114.6334992
841	62.07345963	339.5957336	157.8397217	42.27852249	15.75914383	115.8644104
842	63.32899475	335.9124756	161.3108978	46.18276215	18.90218163	118.2031479
843	59.562397	333.5552063	167.2192841	46.08454514	23.34663391	117.5138321
844	56.90362167	330.682251	167.7362671	44.43936157	27.4227581	120.1972275
845	61.92575073	324.273407	161.089325	41.83653259	29.90281296	120.9603958
846	75.81046295	317.4962463	153.5561371	40.14223862	28.57684326	112.4424667
847	90.0644455	319.0432129	150.1588135	37.14653015	23.00286293	103.4814148
848	95.52970886	327.7356567	152.8175812	33.02129364	17.77265167	107.6172867
849	91.46768951	332.0819092	158.8736877	28.20851898	18.3128624	119.3602066
850	91.54154205	329.0616455	164.9297791	25.97401619	21.99610901	124.2346268
851	99.07473755	322.0634766	166.4068756	25.63024521	22.43809891	118.1785278
852	99.96099854	320.4428406	166.554596	24.91815186	19.22139549	112.1962891
853	89.91674042	324.4944153	170.2473297	23.05197334	16.74134254	107.8388519
854	86.51941681	328.3986511	174.5309143	22.36443329	17.33066177	101.8812256
855	89.32589722	331.1979065	175.4171753	23.02741814	18.26375198	95.30814362
856	86.51941681	333.4078674	173.0538178	25.1391468	16.96233749	93.63410187
857	75.29347992	337.5331116	172.3891296	27.71741867	15.46448421	96.31748962
858	72.1915741	343.0579834	174.0877838	31.4743309	16.27479935	99.61634064
859	76.77057648	346.6675415	174.9740448	34.44548416	16.56945801	99.22245026
860	82.23583221	345.8572388	176.0818634	35.67323303	15.68547916	96.51444244
861	84.15605927	339.153717	174.9740448	36.36077118	16.34846306	94.39726257
862	87.18411255	332.8185425	171.9459992	38.71805191	21.11212921	97.00680542
863	87.99651337	334.6601563	168.1793976	41.83653259	25.36013985	100.7980194
864	86.59326935	339.8167114	163.4526825	44.39025116	27.52098083	103.1121368
865	81.4234314	342.1003418	161.3847504	43.87459564	29.26438332	102.7182465
866	77.43527222	340.2586975	159.0213928	43.50627136	30.95867538	103.0875244
867	74.33336639	340.1113892	153.7038422	43.6536026	29.09249878	102.8659515
868	72.48699188	341.1426697	145.2843933	44.29203033	24.40249634	102.0289383
869	65.54463959	340.7006836	140.9269562	41.93475342	22.24165916	100.0840912
870	55.13110352	341.0690308	144.2504273	39.6265831	24.62349129	101.1919174
871	44.71757126	340.9216919	147.3523254	39.38103485	27.34909439	104.9831314
872	39.03074646	338.711731	145.5798187	40.977108	26.12134552	106.7556458
873	33.71319962	335.0285034	142.2563477	40.46145248	22.68364906	102.4966812
874	28.69106865	331.2715759	141.0008087	39.06182098	19.61427689	99.93637848
875	25.88458443	331.8609009	144.6935577	38.44794464	16.64312363	101.5858078
876	28.46950531	330.5349426	147.6477509	39.25825882	14.13851452	97.76997375
877	31.42369843	326.6306763	150.4542389	38.25150681	12.78799057	86.86407471
878	33.41777802	322.1371155	153.408432	34.00349426	13.00898647	81.52190399
879	31.86682701	321.62146	154.4423981	28.55228806	11.3392477	85.21464539
880	31.86682701	326.1886902	153.6299896	25.94946098	8.6136446	88.71044159
881	31.86682701	330.3876038	152.891449	24.62349129	6.67380142	87.40567017
882	34.89487839	331.0505981	152.5960236	23.3220768	6.28092146	89.37513733

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824	81.89118195
825	87.28257751
826	92.96940613
827	95.03733826
828	94.1510849
829	90.23677063
830	85.46083069
831	88.56272888
832	98.48390198
833	102.7428665
834	98.90241241
835	94.1510849
836	92.13238525
837	88.48887634
838	81.59575653
839	75.36733246
840	72.51161194
841	71.64997101
842	72.24081421
843	72.6839447
844	71.92077637
845	72.16695404
846	76.81981659
847	83.09747314
848	83.04824066
849	77.36141205
850	75.58889771
851	82.53125
852	89.12895203
853	80.51255798
854	62.93510056
855	56.33739853
856	61.28567505
857	62.73815536
858	60.03014374
859	60.74407578
860	66.60322571
861	71.23146057
862	73.34863281
863	74.80111694
864	75.31809998
865	71.97000885
866	66.20933533
867	61.43338776
868	57.78987885
869	53.16164398
870	45.75153732
871	38.04601669
872	33.78705215
873	32.43304825
874	35.53495026
875	49.98588562
876	61.2118187
877	47.00706863
878	24.13668633
879	20.91169167
880	32.06377411
881	35.90422821
882	31.64526367

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
883								.003770	20.33	107.49	16.50	54.91	37.05	99.81
884								.003780	15.32	109.71	17.38	62.89	37.27	95.53
885								.003790	14.14	109.49	19.22	75.44	36.75	96.27
886								.003800	28.87	105.43	20.33	73.15	38.01	97.82
887								.003810	55.17	104.61	20.03	56.02	38.15	95.97
888								.003820	71.01	107.35	22.24	48.34	38.45	96.49
889								.003830	71.97	109.56	24.23	53.73	38.01	98.56
890								.003840	61.87	108.53	25.11	56.90	39.48	102.92
891								.003850	47.44	106.16	22.09	52.10	41.47	104.47
892								.003860	37.34	102.32	23.13	52.69	45.67	101.07
893								.003870	40.22	99.52	27.10	60.74	46.55	90.51
894								.003880	50.09	96.34	31.52	67.69	44.34	84.97
895								.003890	55.63	94.20	29.98	63.99	41.98	86.74
896								.003900	54.60	93.90	30.27	56.39	45.23	91.10
897								.003910	53.18	95.90	34.47	50.77	50.31	90.58
898								.003920	57.16	94.79	39.33	49.89	53.92	88.14
899								.003930	63.35	89.92	40.07	47.97	51.41	85.04
900								.003940	65.41	86.74	39.33	46.93	48.10	83.42
901								.003950	60.03	85.93	40.81	46.64	46.77	84.38
902								.003960	53.55	82.53	44.49	44.72	50.38	90.21
903								.003970	51.12	76.48	44.93	38.96	53.92	93.02
904								.003980	50.75	69.31	44.64	33.49	54.73	89.33
905								.003990	49.28	65.25	46.55	31.57	52.74	84.60
906								.004000	51.27	64.73	50.46	34.08	53.55	85.49
907								.004010	56.20	62.44	51.41	35.71	54.43	84.89
908								.004020	57.53	57.86	50.38	36.96	54.14	79.43
909								.004030	54.51	56.24	48.76	38.22	49.94	75.00
910								.004040	50.53	58.90	51.27	43.31	45.30	79.28
911								.004050	47.58	61.85	51.41	44.57	40.73	82.46
912								.004060	45.30	60.67	48.47	39.10	39.04	80.46
913								.004070	46.62	58.68	42.20	30.24	37.93	76.33
914								.004080	52.37	59.49	40.07	27.58	38.15	74.70
915								.004090	57.16	60.45	41.10	27.29	40.07	72.86
916								.004100	57.45	61.78	45.96	25.81	46.11	71.31
917								.004110	54.43	75.96	51.41	22.63	49.87	68.65
918								.004120	50.38	97.45	56.94	23.74	50.09	65.84
919								.004130	48.47	94.35	56.50	25.22	45.96	62.00
920								.004140	50.01	73.23	52.15	26.25	41.47	60.74
921								.004150	51.41	74.19	48.17	24.19	37.56	59.19
922								.004160	50.23	88.22	49.94	24.04	38.30	56.90
923								.004170	48.02	76.48	51.12	23.67	40.44	50.92
924								.004180	49.57	48.93	50.01	22.04	40.07	45.01
925								.004190	53.11	41.17	48.32	19.31	38.30	41.91
926								.004200	57.90	55.43	49.72	19.90	42.79	44.27
927								.004210	60.77	68.13	51.56	21.75	47.80	48.56
928								.004220	61.06	64.14	54.29	22.41	47.14	49.74
929								.004230	59.44	49.44	57.16	22.41	41.98	45.68
930								.004240	57.45	40.43	61.06	23.15	40.36	44.35
931								.004250	53.77	41.62	61.28	22.41	41.25	48.63
932								.004260	48.83	44.13	57.09	22.78	40.66	54.84
933								.004270	45.52	42.65	46.62	22.56	37.05	56.46
934								.004280	46.26	40.29	38.96	24.48	34.76	54.69
935								.004290	48.39	40.36	34.91	24.04	34.62	51.73
936								.004300	48.76	39.18	34.18	23.00	37.20	51.22
937								.004310	47.58	36.74	32.41	21.08	36.68	49.67
938								.004320	47.29	33.79	33.14	21.97	34.40	49.30
939								.004330	47.36	32.31	30.79	21.60	31.08	50.40
940								.004340	46.85	30.54	24.67	21.38	34.69	52.99
941								.004350	44.49	29.21	16.57	22.63	41.54	51.36

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
883	7.51	44.42	2.20	31.42	10.31	31.67	.003770	330.39	152.89	24.62	87.41	6.67	35.90	
884	8.98	37.18	-1.63	22.86	11.49	34.69	.003780	331.05	152.60	23.32	89.38	6.28	31.65	
885	8.98	36.89	-4.28	13.99	10.09	39.18	.003790	330.02	151.86	23.37	93.73	4.93	30.02	
886	8.25	43.98	-5.31	13.11	9.20	46.71	.003800	327.81	150.08	29.07	92.13	4.05	34.60	
887	7.29	46.56	-2.80	16.14	10.38	51.07	.003810	324.94	148.83	37.78	85.53	4.95	37.92	
888	8.17	45.01	.07	18.13	17.23	54.61	.003820	322.36	148.68	43.90	84.06	8.49	39.25	
889	11.04	43.24	4.41	21.90	23.20	58.16	.003830	323.68	149.12	44.73	87.28	12.89	41.10	
890	14.29	40.14	9.79	24.19	23.94	62.07	.003840	324.27	144.55	42.16	89.45	16.00	42.13	
891	15.91	33.71	11.27	23.74	20.18	61.26	.003850	322.43	138.27	37.00	87.58	15.76	39.57	
892	15.17	26.18	2.20	19.68	20.03	58.45	.003860	319.56	138.49	35.38	85.36	12.47	34.77	
893	15.91	21.08	-6.34	16.43	22.90	54.76	.003870	317.05	145.58	37.96	83.59	10.82	30.76	
894	17.45	19.24	-6.86	13.11	25.04	50.77	.003880	318.82	151.49	41.98	83.00	11.88	27.71	
895	18.34	16.87	.44	13.99	24.89	45.75	.003890	323.61	150.08	42.60	81.64	14.56	25.54	
896	20.18	14.73	5.89	17.61	26.37	42.13	.003900	326.41	142.55	43.43	80.46	17.48	24.83	
897	23.13	15.54	8.47	22.04	27.99	36.82	.003910	325.97	138.56	45.99	79.08	19.86	24.80	
898	26.59	18.20	8.91	24.19	31.08	28.84	.003920	323.83	139.08	50.14	77.61	22.19	23.74	
899	29.46	19.39	12.96	25.96	36.61	20.27	.003930	325.38	138.19	51.61	74.31	26.34	21.87	
900	32.26	18.87	18.56	25.37	42.28	16.21	.003940	326.63	131.70	50.95	72.36	31.03	20.15	
901	33.88	16.36	23.71	25.96	40.95	14.14	.003950	326.93	128.81	49.20	72.31	32.85	18.82	
902	35.80	14.29	24.08	28.17	35.43	13.70	.003960	323.83	129.33	49.47	72.49	31.77	18.72	
903	36.90	13.85	23.86	32.01	27.99	12.59	.003970	320.59	127.71	49.99	69.48	29.58	19.48	
904	37.05	15.47	20.84	29.28	25.70	15.77	.003980	320.74	121.36	50.04	64.04	27.86	20.17	
905	37.34	15.84	16.26	23.23	25.04	19.98	.003990	326.85	116.33	49.52	60.47	26.88	19.68	
906	41.25	14.95	16.64	15.91	26.37	24.92	.004000	333.78	114.27	51.76	61.43	28.09	18.60	
907	43.90	10.82	19.44	9.86	25.34	24.92	.004010	334.95	114.19	54.02	61.01	29.56	15.20	
908	40.58	3.43	22.17	3.88	26.22	25.59	.004020	330.90	111.61	54.02	58.09	29.66	10.97	
909	33.73	-12.30	24.53	.85	25.63	28.62	.004030	330.09	108.87	51.07	56.49	27.96	5.72	
910	31.23	-35.19	23.86	-3.07	26.22	32.16	.004040	332.38	109.69	49.03	60.50	27.10	-2.03	
911	32.19	-38.89	26.44	-7.57	26.51	30.46	.004050	335.91	119.73	46.58	62.96	28.38	-5.33	
912	32.26	-10.08	33.59	-11.41	31.01	28.40	.004060	336.35	132.14	44.27	60.08	32.26	2.30	
913	30.05	16.06	40.95	-12.89	34.84	25.59	.004070	335.18	134.35	42.25	55.08	35.26	9.59	
914	31.08	11.70	40.36	-14.22	33.22	21.31	.004080	336.65	129.33	43.53	53.92	34.89	6.26	
915	36.24	-2.70	37.42	-10.82	26.51	17.61	.004090	340.33	126.82	46.11	53.53	33.39	1.36	
916	40.95	-5.65	36.46	-6.09	24.23	18.35	.004100	340.33	129.55	49.84	52.96	33.86	2.20	
917	42.65	-4.32	38.30	-2.70	28.21	17.83	.004110	338.86	135.09	51.90	55.75	36.39	3.61	
918	42.94	-10.38	40.14	-2.40	36.24	16.51	.004120	335.10	135.09	52.47	62.34	39.77	1.24	
919	42.87	-19.54	42.72	-.92	37.12	14.29	.004130	335.91	131.33	50.31	60.52	40.90	-2.06	
920	42.43	-22.93	43.02	.55	33.00	15.03	.004140	338.56	123.35	47.88	53.41	39.46	-2.45	
921	43.09	-21.16	44.27	.40	30.93	19.02	.004150	340.33	116.04	45.72	52.52	39.43	-.58	
922	44.71	-20.64	46.77	-1.07	34.47	26.84	.004160	339.30	112.79	46.16	56.39	41.98	1.71	
923	45.74	-24.04	49.94	.04	36.24	32.46	.004170	338.27	116.92	46.53	60.36	43.97	2.82	
924	48.10	-25.89	50.31	2.92	37.49	35.71	.004180	335.69	127.71	46.55	38.66	45.30	4.25	
925	52.44	-24.41	51.27	8.53	38.67	37.11	.004190	332.60	143.22	46.58	34.13	47.46	7.08	
926	57.09	-21.75	51.71	13.55	39.70	39.40	.004200	328.91	146.91	50.14	39.87	49.50	10.40	
927	59.88	-22.93	49.87	17.91	34.84	35.78	.004210	331.79	130.51	53.38	46.15	48.20	10.25	
928	63.42	-24.26	42.28	20.20	32.33	29.36	.004220	340.04	107.62	54.16	45.43	46.01	8.43	
929	68.58	-22.64	37.42	21.90	33.44	20.64	.004230	348.29	95.88	52.86	39.18	46.48	6.63	
930	70.42	-18.87	37.93	20.35	37.12	14.81	.004240	348.21	92.55	52.96	35.98	48.49	5.43	
931	61.73	-15.99	39.63	17.32	35.50	9.41	.004250	345.12	91.81	52.10	37.55	45.62	3.58	
932	50.23	-12.74	36.09	13.77	32.85	7.13	.004260	343.72	91.15	48.86	40.58	39.72	2.72	
933	47.14	-8.53	32.19	11.70	30.42	3.80	.004270	345.78	90.78	43.06	40.56	36.56	2.32	
934	50.38	-6.46	32.33	6.31	35.28	2.77	.004280	346.08	87.60	39.99	39.82	39.33	.87	
935	51.04	-7.87	38.82	-1.59	42.50	.70	.004290	342.84	84.28	39.31	38.71	44.12	-2.92	
936	46.26	-10.60	45.23	-9.94	46.26	-.11	.004300	340.63	87.23	40.04	37.80	45.91	-6.88	
937	38.60	-11.34	46.85	-14.51	41.91	-1.52	.004310	344.24	99.42	38.89	35.83	42.45	-9.12	
938	34.10	-7.57	41.03	-18.80	36.83	-1.07	.004320	349.61	116.41	38.28	35.02	37.32	-9.15	
939	35.35	-2.84	37.56	-21.75	33.44	-.63	.004330	353.89	134.65	36.41	34.77	35.45	-8.41	
940	41.10	-2.25	37.93	-27.66	32.78	-2.25	.004340	351.31	147.06	35.40	34.97	37.27	-10.72	
941	45.89	-5.87	38.37	-31.50	31.08	-6.54	.004350	349.54	155.40	34.20	34.40	38.45	-14.64	

	AC	AD	AE	AF	AG	AH
883	0.00878	14.13851547	19.22139549	36.75365067	8.98196888	-4.27771997
884	0.00879	28.87150383	20.32637024	38.00595474	8.24532032	-5.3090291
885	0.0088	55.16988754	20.03170967	38.15328598	7.28767586	-2.80442119
886	0.00881	71.00785065	22.24165916	38.44794464	8.1716547	0.06851147
887	0.00882	71.96549225	24.2306118	38.00595474	11.04458809	4.41474295
888	0.00883	61.87339783	25.1145916	39.47925568	14.2858448	9.79228401
889	0.00884	47.43507004	22.09432793	41.46820831	15.90647411	11.26558208
890	0.00885	37.3429718	23.12563705	45.66711044	15.1698246	2.20479465
891	0.00886	40.21590424	27.10354424	46.55109024	15.90647411	-6.34033823
892	0.00887	50.08700562	31.52344131	44.34114075	17.45343781	-6.85599279
893	0.00888	55.83287048	29.97647667	41.98386383	18.3374176	0.43663618
894	0.00889	54.80156326	30.27113724	45.22512054	20.17904091	5.88804197
895	0.0089	53.18093491	34.47003937	50.30800247	23.12563705	8.46631432
896	0.00891	57.15884018	39.33192444	53.91758347	26.58789063	8.90830421
897	0.00892	63.34669495	40.068573	51.41297531	29.46082306	12.95987606
898	0.00893	65.40931702	39.33192444	48.09805298	32.26008987	18.55841255
899	0.00894	60.03177261	40.80522537	46.77208328	33.88071823	23.71495819
900	0.00895	53.54925919	44.48847198	50.38166428	35.79600906	24.08328247
901	0.00896	51.11831665	44.93046188	53.91758347	36.9009819	23.86228752
902	0.00897	50.74999237	44.63579941	54.72789764	37.04631314	20.84202385
903	0.00898	49.27669144	46.55109024	52.73894501	37.3429718	18.26375198
904	0.00899	51.26564407	50.4553299	53.54925919	41.24721527	16.64312363
905	0.009	56.20119476	51.41297531	54.43323898	43.89915085	19.44239044
906	0.00901	57.52716446	50.38166428	54.13857651	40.58422852	22.16799355
907	0.00902	54.5069046	48.76103592	49.93967819	33.73339081	24.52527237
908	0.00903	50.52899551	51.26564407	45.29878616	31.22878075	23.86228752
909	0.00904	47.58239746	51.41297531	40.73155975	32.18642426	26.44055939
910	0.00905	45.29878616	48.46637726	39.03726578	32.26008987	33.58605957
911	0.00906	46.62475586	42.20485687	37.93229294	30.05014229	40.9525528
912	0.00907	52.37062073	40.068573	38.15328598	31.08145142	40.36323547
913	0.00908	57.15884018	41.09988403	40.068573	36.23799896	37.41663742
914	0.00909	57.45349884	45.9617691	46.10910034	40.9525528	36.458992
915	0.0091	54.43323898	51.41297531	49.86601257	42.64684677	38.30061722
916	0.00911	50.38166428	56.93784714	50.08700562	42.94150543	40.14223862
917	0.00912	48.46637726	56.49585724	45.9617691	42.86784363	42.72051239
918	0.00913	50.01334	52.14962387	41.46820831	42.42585373	43.01517105
919	0.00914	51.41297531	48.1717186	37.56396484	43.08883667	44.26747513
920	0.00915	50.23433685	49.93967819	38.30061722	44.70946503	46.77208328
921	0.00916	48.02438736	51.11831665	40.43689728	45.74077606	49.93967819
922	0.00917	49.5713501	50.01334	40.068573	48.09805298	50.30800247
923	0.00918	53.10726929	48.31904602	38.30061722	52.44428635	51.26564407
924	0.00919	57.89548874	49.71868134	42.79417801	57.08517456	51.70763397
925	0.0092	60.76842117	51.56030655	47.80339432	59.88444519	49.86601257
926	0.00921	61.06308365	54.28590775	47.14040756	63.42036057	42.27852249
927	0.00922	59.44245529	57.15884018	41.98386383	68.5769043	37.41663742
928	0.00923	57.45349884	61.06308365	40.36323547	70.41853333	37.93229294
929	0.00924	53.77025223	61.28407669	41.24721527	61.72606659	39.6265831
930	0.00925	48.83470154	57.08517456	40.65789413	50.23433685	36.09066772
931	0.00926	45.51977921	46.62475586	37.04831314	47.14040756	32.18642426
932	0.00927	46.25642776	38.96360016	34.76469803	50.38166428	32.33375549
933	0.00928	48.39271164	34.91202927	34.61737061	51.04465103	38.81626892
934	0.00929	48.76103592	34.17538071	37.19564056	46.25642776	45.22512054
935	0.0093	47.58239746	32.40742111	36.67998886	38.59527588	46.8457489
936	0.00931	47.2877388	33.14406967	34.39637375	34.10171509	41.02621841
937	0.00932	47.36140442	30.78679276	31.08145142	35.35401917	37.56396484
938	0.00933	46.8457489	24.6726017	34.69103241	41.09988403	37.93229294
939	0.00934	44.48847198	16.56945801	41.54187393	45.88810349	38.37427902
940	0.00935	41.76286697	16.20113373	43.97281647	43.67815781	34.61737061
941	0.00936	38.59527588	25.48291588	39.47925568	37.49030304	29.53448868

	AI	AJ	AK	AL	AM	AN
883	10.08694363	109.4882736	75.441185	96.26825714	36.88895798	13.99395466
884	9.20296383	105.4262543	73.15168762	97.81920624	43.97902298	13.10769653
885	10.38160324	104.6138535	56.0173645	95.97283936	46.56394196	16.13574409
886	17.23244286	107.3464813	48.33646011	96.48982239	45.01298904	18.12982559
887	23.19930267	109.5621262	53.72786331	98.55775452	43.2404747	21.89642334
888	23.93595314	108.5281601	56.90362167	102.9151917	40.13856888	24.18592262
889	20.17904091	106.1648026	52.10305786	104.4661408	33.71319962	23.74279404
890	20.03170967	102.3243561	52.69389343	101.0688248	26.18000412	19.6807785
891	22.90464401	99.51786804	60.74407196	90.50757599	21.08402061	16.43116379
892	25.04092598	96.34210968	67.68643188	84.96846771	19.23764801	13.10769653
893	24.89359665	94.20031738	63.99368668	86.74098206	16.87429428	13.99395466
894	26.36689568	93.9048996	56.38663864	91.09841919	14.73250294	17.61284256
895	27.98752403	95.89897919	50.7736702	90.58143616	15.54490662	22.04413223
896	31.08145142	94.79116058	49.88740921	88.14422607	18.20368004	24.18592262
897	36.60632324	89.91674042	47.96718597	85.04232025	19.38535881	25.95843887
898	42.27852249	86.74098206	46.93321609	83.41751099	18.86837387	25.36760139
899	40.9525528	85.92857361	46.63779831	84.37762451	16.35730934	25.95843887
900	35.42768478	82.53125763	44.71757126	90.2121582	14.2893734	28.17408562
901	27.98752403	76.47515869	38.95689392	93.01864624	13.84624481	32.01453781
902	25.70391083	69.31123352	33.49163437	89.32589722	15.47105122	29.28190804
903	25.04092598	65.2492218	31.57140923	84.59918976	15.84032536	23.225811
904	26.36689568	64.73223877	34.08247375	85.48545074	14.95406723	15.91418076
905	25.33558655	62.44273376	35.70727921	84.89460754	10.8181963	9.85808277
906	26.21956635	57.8637352	36.96281052	79.42935181	3.43271089	3.87583995
907	25.63024521	56.23892593	38.21834564	74.99806213	-12.29837227	0.84779125
908	26.21956635	58.89770126	43.31433105	79.2816391	-35.19337463	-3.06651568
909	26.51422501	61.85189819	44.56986237	82.45739746	-38.88611603	-7.57166147
910	31.0077858	60.67021942	39.10460281	80.46331787	-10.08272648	-11.41211319
911	34.83836365	58.67613602	30.24202156	76.32744598	16.06188965	-12.8892107
912	33.21773529	59.48854065	27.58324623	74.70263672	11.70445442	-14.21859837
913	26.51422501	60.44865417	27.28782654	72.85626984	-2.69724154	-10.82127476
914	24.2306118	61.77804184	25.81072998	71.30532074	-5.65143538	-6.09456444
915	28.20851898	75.95817566	22.63497162	68.64654541	-4.32204819	-2.69724154
916	36.23799896	97.44993591	23.74279404	65.84005737	-10.37814617	-2.40182209
917	37.12197495	94.34803009	25.21989059	61.99960709	-19.53614616	-0.92472512
918	32.99673843	73.22554016	26.25385857	60.74407196	-22.93346977	0.55237186
919	30.93412209	74.18565369	24.18592262	59.19312286	-21.16095352	0.40466216
920	34.47003937	88.21807861	24.03821373	56.90362167	-20.64397049	-1.07243478
921	36.23799896	76.47515869	23.66893959	50.92137909	-24.04129219	0.03538791
922	37.49030304	48.9272995	22.04413223	45.01298904	-25.88766479	2.9157269
923	38.6689415	41.17253876	19.31150436	41.91108704	-24.41056633	8.52869511
924	39.70024872	55.42652512	19.90234184	44.27444077	-21.75179291	13.55082512
925	34.83836365	68.12955475	21.74871254	48.55802536	-22.93346977	17.90826225
926	32.33375549	64.14139557	22.41340637	49.73970032	-24.26285744	20.19776154
927	33.43872833	49.44428253	22.41340637	45.67768478	-22.63805008	21.89642334
928	37.12197495	40.43399048	23.15195465	44.34829712	-18.87145424	20.34547043
929	35.50134659	41.61566925	22.41340637	48.6318779	-15.99111462	17.31742287
930	32.84941101	44.12673187	22.78268051	54.83568573	-12.74150085	13.77238941
931	30.41846657	42.64963531	22.56111717	56.46049118	-8.53177452	11.70445442
932	35.28035355	40.28628159	24.48134232	54.68797684	-6.46383858	6.31305027
933	42.49951553	40.36013412	24.03821373	51.73378372	-7.86708069	-1.58941877
934	46.25642776	39.17845917	23.00424576	51.21679688	-10.59971046	-9.93501663
935	41.91019821	36.74124908	21.08402061	49.66584778	-11.33825874	-14.51401711
936	36.82731628	33.78705215	21.97027779	49.29657364	-7.57166147	-18.79759789
937	33.43872833	32.3099556	21.60100365	50.40439606	-2.84495115	-21.75179291
938	32.77574539	30.53744125	21.3794384	52.98931503	-2.25411248	-27.66018105
939	31.08145142	29.20805359	22.63497162	51.36450958	-5.87300014	-31.50063324
940	29.38715744	29.87274742	23.74279404	43.68360519	-11.70753288	-35.04566574
941	26.51422501	32.75308609	20.71474648	35.78113556	-18.94530869	-37.55672836

	AO	AP	AQ	AR	AS	AT
883	39.17845917	330.0192871	151.8574829	23.37118721	4.93039751	93.73257446
884	46.71165085	327.8093262	150.0849609	29.06794357	4.04641819	92.13238525
885	51.06908798	324.9364014	148.829422	37.7849617	4.95495272	85.53468323
886	54.61412048	322.3581238	148.6817169	43.89915085	8.49086952	84.05758667
887	58.15915298	323.684082	149.1248474	44.73402023	12.8862114	87.28257751
888	62.07345963	324.273407	144.5458527	42.15574646	16.00469398	89.44898987
889	61.26105881	322.4317932	138.2681885	36.99920273	15.78369904	87.57800293
890	58.45457458	319.5588684	138.4897461	35.37857437	12.4687767	85.36235809
891	54.76182938	317.0542603	145.5798187	37.95684814	10.82359314	83.58983612
892	50.7736702	318.8222046	151.488205	41.98386383	11.87945747	82.99900055
893	45.75154114	323.6104431	150.0849609	42.59773636	14.55595016	81.64499664
894	42.13265228	326.4096985	142.5517578	43.43260574	17.47799301	80.46331787
895	36.81510162	325.9677124	138.5635986	45.98632431	19.85982513	79.08469391
896	28.83877945	323.8314209	139.0805817	50.13611603	22.19254875	77.60759735
897	20.27161598	325.3783875	138.1943359	51.60941315	26.34234047	74.30874634
898	16.20960045	326.6306763	131.6950989	50.94643021	31.032341	72.36390686
899	14.14166355	326.925354	128.8147583	49.20302582	32.84941101	72.31466675
900	13.69853497	323.8314209	129.3317413	49.47313309	31.76899147	72.48699951
901	12.59071255	320.5901794	127.7069397	49.9887886	29.58359718	69.48356628
902	15.76647091	320.7374878	121.355423	50.0378952	27.86474991	64.04292297
903	19.97619629	326.8516846	116.3332901	49.5222435	26.88254929	60.47327423
904	24.92447281	333.7761841	114.265358	51.75674438	28.08574486	61.43338776
905	24.92447281	334.954834	114.1915054	54.01580429	29.55904198	61.0148735
906	25.58916473	330.9032593	111.6065826	54.01580048	29.6572628	58.08530045
907	28.6172142	330.0929565	108.8739548	51.06920624	27.96296883	56.48511124
908	32.1622467	332.3765564	109.6863556	49.03114319	27.10354424	60.49789047
909	30.4635849	335.9124756	119.7306137	46.57564545	28.38040352	62.95972061
910	28.39564896	336.3544617	132.1382294	44.26747513	32.28464508	60.07938004
911	25.58916473	335.1758118	134.3538818	42.25396729	35.28035355	55.08186722
912	21.30558395	336.6491089	129.3317413	43.53082657	34.88747406	53.9248085
913	17.61284256	340.3323669	126.8206787	46.10910034	33.38962173	53.53091812
914	18.35139084	340.3323669	129.5533142	49.84145737	33.88071823	52.96469879
915	17.8344059	338.8590698	135.0924225	51.90407562	36.38532639	55.74656296
916	16.50501823	335.1021729	135.0924225	52.46883774	39.77391434	62.34426117
917	14.2893734	335.9124756	131.3258209	50.30800247	40.90344238	60.52251053
918	15.02792263	338.5644226	123.3495026	47.87705612	39.47925568	53.40782166
919	19.01608467	340.3323669	116.0378723	45.71622086	39.43014526	52.5215683
920	26.84469795	339.3010559	112.7882614	46.15821075	41.98386383	56.38663864
921	32.4576683	338.2697449	116.9241333	46.52653503	43.97281647	50.35515976
922	35.70727921	335.6914673	127.7069397	46.55108643	45.29878616	38.66147232
923	37.11052322	332.5975647	143.2164612	46.57564545	47.45962524	34.13171005
924	39.4000206	328.9143066	146.909195	50.13611603	49.49768448	39.86776733
925	35.78113556	331.7872315	130.5134277	53.37737274	48.1962738	46.14543152
926	29.35576248	340.0377197	107.6184235	54.16313171	46.01087952	45.43149948
927	20.64089012	348.2881775	95.87550354	52.86172104	46.47742462	39.17845917
928	14.80635738	348.2145081	92.55203247	52.95993805	48.49093246	35.97808075
929	9.41495323	345.1206055	91.81348419	52.10051346	45.61800003	37.5536499
930	7.12545347	343.7209473	91.14878845	48.85925674	39.72480392	40.58169937
931	3.80198526	345.7835693	90.77951813	43.06428146	36.58176422	40.55708313
932	2.76801729	346.0782471	87.60375977	39.99490738	39.33192444	39.81853485
933	0.70008153	342.8369751	84.2802887	39.30736923	44.12014389	38.71070862
934	-0.11232179	340.6270447	87.23448181	40.04401779	45.91265869	37.79983521
935	-1.51556396	344.2366028	99.42053223	38.88993454	42.45040894	35.83037186
936	-1.07243478	349.6141663	116.4071503	38.27606201	37.3184166	35.01796722
937	-0.62930572	353.8867188	134.649292	36.40988159	35.45223618	34.77178574
938	-2.25411248	351.3084412	147.0569153	35.40312958	37.26930618	34.96873093
939	-6.5376935	349.5404968	155.4025116	34.19993591	38.44794464	34.4025116
940	-8.67948437	348.8775024	159.3906708	33.97893906	35.89422989	32.43304825
941	-8.45792007	353.4447327	165.299057	34.51914978	31.17967224	29.74965668

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883	30.02045822
884	34.59945679
885	37.92292404
886	39.25231171
887	41.0986824
888	42.13265228
889	39.57234955
890	34.77178574
891	30.75900459
892	27.70633888
893	25.53993034
894	24.82600021
895	24.80138016
896	23.74279404
897	21.87180519
898	20.14852524
899	18.81913757
900	18.72066498
901	19.48383141
902	20.17314339
903	19.6807785
904	18.59757423
905	15.20025063
906	10.96590519
907	5.72221088
908	-2.03254795
909	-5.33139753
910	2.30026984
911	9.58728123
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914	2.20179701
915	3.60503864
916	1.24168336
917	-2.05716586
918	-2.45105839
919	-0.58006889
920	1.70943093
921	2.81725478
922	4.24511385
923	7.07621717
924	10.39968395
925	10.25197601
926	8.43022251
927	6.63308764
928	5.42679119
929	3.58042049
930	2.71878076
931	2.32488847
932	0.87240964
933	-2.91880608
934	-6.88234949
935	-9.12261295
936	-9.1472311
937	-8.40868282
938	-10.72280216
939	-14.6371088
940	-18.47756195
941	-21.65331841

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
942								.004360	41.76	29.87	16.20	23.74	43.97	43.68
943								.004370	38.60	32.75	25.48	20.71	39.48	35.78
944								.004380	36.75	34.45	36.24	17.61	37.12	36.22
945								.004390	35.13	31.05	35.80	16.21	36.90	38.51
946								.004400	33.51	24.92	28.65	15.54	35.28	36.89
947								.004410	31.89	21.82	24.75	13.99	28.72	29.95
948								.004420	35.13	27.66	27.25	14.51	25.34	25.96
949								.004430	40.14	37.63	27.77	16.65	25.19	24.85
950								.004440	45.37	38.44	25.11	18.87	28.50	25.81
951								.004450	47.14	26.40	25.78	19.61	33.51	25.52
952								.004460	42.20	15.84	32.70	19.39	41.10	27.29
953								.004470	33.88	16.58	39.77	18.50	46.26	28.91
954								.004480	34.62	22.04	45.89	19.16	47.07	30.02
955								.004490	46.04	24.11	47.73	19.61	44.78	28.62
956								.004500	50.68	24.63	46.99	20.86	45.59	27.44
957								.004510	45.52	28.25	42.87	19.61	46.26	25.88
958								.004520	43.46	30.09	41.69	17.17	44.78	26.25
959								.004530	48.39	27.88	42.57	14.51	41.91	25.00
960								.004540	49.57	25.07	46.04	13.03	42.65	22.63
961								.004550	41.54	25.37	46.33	9.41	41.03	19.75
962								.004560	34.18	26.48	44.34	7.72	36.83	20.05
963								.004570	36.63	25.00	39.85	6.31	30.93	21.97
964								.004580	44.93	23.89	38.30	7.64	30.27	24.41
965								.004590	48.69	24.26	39.11	9.05	31.08	25.37
966								.004600	47.88	24.78	40.36	11.04	31.97	26.11
967								.004610	47.66	23.96	40.07	10.15	29.31	24.63
968								.004620	48.91	22.71	43.09	7.05	29.02	23.00
969								.004630	46.33	19.90	46.33	1.51	31.67	20.94
970								.004640	42.94	16.73	47.80	-.11	34.76	18.94
971								.004650	45.08	13.85	46.11	-.56	33.44	16.58
972								.004660	54.65	13.85	47.44	-.63	33.51	17.10
973								.004670	60.33	14.66	49.94	-2.92	35.50	17.24
974								.004680	58.12	13.85	51.12	-6.54	36.61	14.88
975								.004690	55.54	10.45	49.72	-10.67	34.99	10.45
976								.004700	58.71	9.41	49.72	-11.41	34.03	8.01
977								.004710	62.46	10.01	50.82	-4.03	34.25	4.98
978								.004720	62.24	10.97	52.74	14.44	36.24	.85
979								.004730	60.47	8.68	52.15	25.29	37.71	-3.29
980								.004740	60.47	.55	50.68	15.91	40.95	-1.96
981								.004750	60.55	-4.91	49.72	.40	41.39	1.29
982								.004760	58.93	1.44	54.51	-.33	39.92	4.02
983								.004770	56.57	10.97	58.63	4.84	36.97	4.32
984								.004780	55.63	10.89	59.37	7.13	35.35	5.72
985								.004790	54.21	5.50	54.80	4.98	33.59	8.16
986								.004800	49.65	4.10	48.17	5.80	33.37	12.00
987								.004810	39.63	5.28	40.73	6.90	32.19	12.96
988								.004820	30.49	7.94	41.62	9.86	30.20	11.34
989								.004830	32.70	11.34	50.38	12.81	25.11	6.17
990								.004840	42.13	11.04	54.36	14.44	22.39	3.21
991								.004850	43.60	5.28	45.30	10.38	21.06	2.03
992								.004860	40.07	.85	35.65	6.76	22.98	2.77
993								.004870	39.41	-.04	35.06	5.13	25.48	2.10
994								.004880	45.61	-.48	41.98	4.54	26.44	2.55
995								.004890	49.28	-4.03	45.96	1.07	23.71	2.92
996								.004900	46.11	-6.39	46.40	.18	23.57	2.47
997								.004910	39.92	-8.46	45.15	2.55	25.78	.40
998								.004920	40.95	-10.82	46.62	4.10	27.84	1.07
999								.004930	45.67	-12.89	46.40	.40	25.92	4.76
1000								.004940	47.66	-7.72	46.62	-2.70	24.60	7.79

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
942	43.68	-11.71	34.62	-35.05	29.39	-8.68	.004360	348.88	159.39	33.98	32.43	35.89	-18.48	
943	37.49	-18.95	29.53	-37.56	26.51	-8.46	.004370	353.44	165.30	34.52	29.75	31.18	-21.65	
944	35.06	-25.74	26.07	-40.51	27.03	-5.87	.004380	359.93	167.29	36.70	29.43	29.39	-24.04	
945	38.30	-30.98	27.77	-40.66	30.64	-5.50	.004390	364.13	156.58	35.94	28.59	32.24	-25.72	
946	39.33	-33.27	31.23	-39.40	38.08	-6.09	.004400	364.86	138.79	32.48	25.79	36.21	-26.26	
947	33.37	-34.09	34.10	-37.11	41.62	-7.72	.004410	368.47	128.30	28.45	21.92	36.36	-26.31	
948	28.58	-30.91	31.82	-34.23	41.32	-5.06	.004420	373.48	119.44	29.24	22.71	33.91	-23.40	
949	33.44	-26.11	27.03	-29.88	37.34	-1.44	.004430	377.16	107.54	31.03	26.38	32.60	-19.14	
950	44.05	-21.97	22.76	-26.77	36.75	2.77	.004440	373.04	90.93	33.00	27.71	34.52	-15.33	
951	52.67	-20.72	22.68	-25.74	36.09	2.62	.004450	369.14	78.08	35.48	23.84	37.15	-14.61	
952	55.10	-19.54	22.76	-26.18	38.67	1.14	.004460	367.96	68.92	38.67	20.84	38.84	-14.86	
953	52.00	-18.65	21.87	-25.59	40.36	-3.44	.004470	368.03	64.49	39.97	21.33	38.08	-15.89	
954	49.35	-19.09	19.07	-23.75	42.87	-3.81	.004480	366.85	65.67	42.52	23.74	37.10	-15.55	
955	47.51	-22.27	19.22	-19.54	42.87	-2.11	.004490	365.23	67.88	46.18	24.11	36.53	-14.64	
956	47.21	-24.26	21.06	-13.70	42.72	-1.74	.004500	365.38	66.04	47.75	24.31	37.00	-13.23	
957	47.80	-23.52	23.13	1.29	41.39	-6.83	.004510	365.82	60.20	44.88	24.58	37.44	-9.69	
958	50.09	-19.31	22.09	20.35	42.43	-9.49	.004520	366.04	52.82	43.31	24.51	38.20	-2.82	
959	52.00	-13.63	21.58	21.60	43.02	-8.01	.004530	368.99	45.28	44.29	22.46	38.87	-.01	
960	52.15	-9.34	24.01	2.18	45.23	-3.95	.004540	371.27	37.16	46.08	20.25	40.46	-3.71	
961	51.41	-7.87	31.08	-11.56	46.85	-2.48	.004550	372.01	33.39	42.97	18.18	43.11	-7.30	
962	51.85	-9.79	33.59	-14.07	48.47	-4.17	.004560	366.78	33.62	38.45	18.08	44.64	-9.34	
963	50.46	-12.22	32.78	-15.84	46.85	-7.87	.004570	362.21	41.15	35.87	17.76	43.36	-11.98	
964	48.10	-10.75	31.82	-22.64	45.08	-8.83	.004580	357.86	40.71	37.83	18.65	41.66	-14.07	
965	46.85	-5.36	33.95	-26.92	44.34	-11.26	.004590	357.72	26.60	39.63	19.56	41.71	-14.51	
966	46.85	-2.62	34.03	-29.88	44.19	-15.70	.004600	359.19	14.49	40.07	20.64	41.69	-16.06	
967	45.52	-5.80	32.85	-32.24	41.10	-20.87	.004610	360.44	18.55	39.01	19.58	39.82	-19.63	
968	44.05	-10.08	31.74	-35.41	38.01	-23.01	.004620	363.39	27.56	40.34	17.59	37.93	-22.83	
969	44.64	-11.41	30.64	-37.41	34.91	-26.18	.004630	370.46	30.37	41.44	14.12	36.73	-25.00	
970	47.29	-11.26	26.96	-39.26	36.90	-28.99	.004640	369.58	27.19	41.84	11.85	37.05	-26.50	
971	48.61	-13.63	27.40	-40.36	38.23	-34.90	.004650	361.18	29.04	41.54	9.96	38.06	-29.63	
972	48.83	-18.72	28.72	-44.20	39.63	-39.11	.004660	352.56	30.37	45.20	10.10	39.06	-34.01	
973	49.42	-24.41	26.51	-51.15	39.04	-42.43	.004670	353.81	28.52	48.59	9.66	38.33	-39.33	
974	51.85	-26.77	24.01	-57.28	43.90	-41.99	.004680	358.97	24.61	48.61	7.40	39.92	-42.01	
975	51.71	-27.81	29.76	-58.31	49.94	-42.87	.004690	362.36	20.62	46.75	3.41	43.80	-43.00	
976	49.65	-30.17	37.86	-58.97	53.33	-42.95	.004700	363.02	17.66	47.48	2.00	46.94	-44.03	
977	46.85	-35.93	41.03	-61.34	51.56	-44.35	.004710	363.98	15.00	49.18	3.65	46.48	-47.21	
978	49.50	-39.77	37.86	-65.18	50.16	-43.98	.004720	365.60	15.30	50.41	8.75	45.84	-49.64	
979	53.48	-40.22	35.13	-65.03	47.88	-45.02	.004730	367.59	17.96	50.11	10.23	45.50	-50.09	
980	56.50	-35.34	33.88	-63.26	48.32	-43.17	.004740	367.29	19.51	50.70	4.84	46.23	-47.26	
981	58.26	-30.17	33.88	-62.82	48.98	-38.89	.004750	369.65	23.28	50.55	-1.07	47.04	-43.96	
982	59.15	-25.22	32.70	-63.48	51.56	-32.53	.004760	371.27	22.91	51.12	1.71	47.80	-40.41	
983	57.45	-21.46	35.35	-56.91	54.14	-27.07	.004770	375.40	20.10	50.73	6.71	48.96	-35.14	
984	54.65	-20.50	40.73	-45.24	56.20	-21.83	.004780	375.84	13.38	50.19	7.91	50.53	-29.19	
985	54.21	-20.87	46.85	-35.27	54.06	-17.39	.004790	373.33	10.35	47.53	6.21	51.71	-24.51	
986	58.19	-19.54	47.44	-31.43	52.08	-12.08	.004800	367.29	11.68	43.73	7.30	52.57	-21.01	
987	63.05	-19.68	46.40	-26.77	52.74	-7.50	.004810	360.30	12.79	37.51	8.38	54.06	-17.99	
988	65.11	-22.05	46.55	-20.27	54.14	-4.47	.004820	353.15	10.43	34.10	9.71	55.27	-15.60	
989	61.87	-23.97	47.66	-16.51	51.41	-3.73	.004830	350.65	9.54	36.07	10.10	53.65	-14.74	
990	56.27	-24.93	47.21	-17.84	49.06	-2.70	.004840	350.35	10.94	39.63	9.56	50.85	-15.15	
991	50.60	-26.18	50.38	-13.48	48.32	-4.84	.004850	353.44	15.00	36.66	5.89	49.77	-14.83	
992	48.76	-28.10	54.14	-3.44	51.41	-8.38	.004860	354.33	16.04	32.90	3.46	51.44	-13.31	
993	50.23	-28.55	55.76	3.21	53.11	-11.56	.004870	355.14	19.29	33.32	2.40	53.03	-12.30	
994	51.85	-25.89	56.94	3.65	53.11	-12.74	.004880	351.38	21.58	38.08	2.20	53.97	-11.66	
995	51.12	-22.79	58.48	5.28	50.31	-17.76	.004890	346.74	24.01	39.65	-.01	53.30	-11.76	
996	48.76	-22.34	57.01	9.19	52.08	-18.50	.004900	343.72	25.64	38.69	-1.24	52.62	-10.55	
997	43.02	-24.63	56.57	17.76	55.10	-15.77	.004910	343.57	28.22	36.95	-1.84	51.56	-7.55	
998	36.97	-23.08	58.48	26.70	56.42	-12.45	.004920	340.92	29.92	38.47	-1.88	50.63	-2.94	
999	32.26	-18.43	60.11	23.37	51.04	-14.59	.004930	336.50	29.63	39.33	-2.57	47.80	-3.21	
1000	31.23	-13.78	57.75	8.90	46.11	-13.33	.004940	335.32	30.37	39.63	-.88	45.03	-6.07	

	AC	AD	AE	AF	AG	AH
942	0.00937	36.75365067	36.23799896	37.12197495	35.05935669	26.07223511
943	0.00938	35.13302231	35.79600906	36.9009819	38.30061722	27.76652908
944	0.00939	33.51239395	28.65050888	35.28035355	39.33192444	31.22878075
945	0.0094	31.89176559	24.74626732	28.72417259	33.36506653	34.10171509
946	0.00941	35.13302231	27.25087547	25.33558655	28.57684326	31.81810188
947	0.00942	40.14223862	27.76652908	25.18825722	33.43872833	27.02988052
948	0.00943	45.37245178	25.1145916	28.50317955	44.04648209	22.75731277
949	0.00944	47.14040756	25.77757645	33.51239395	52.66527939	22.68364906
950	0.00945	42.20485687	32.70207977	41.09988403	55.09622192	22.75731277
951	0.00946	33.88071823	39.77391434	46.25642776	52.00229645	21.87333488
952	0.00947	34.61737061	45.88810349	47.06674194	49.35035706	19.07406616
953	0.00948	46.03543472	47.7297287	44.78313065	47.50873184	19.22139549
954	0.00949	50.67632675	46.99308014	45.59344482	47.21407318	21.0630188
955	0.0095	45.51977921	42.86784363	46.25642776	47.80339432	23.12563705
956	0.00951	43.45716095	41.68920135	44.78313065	50.08700562	22.09432793
957	0.00952	48.39271164	42.57318115	41.91019821	52.00229645	21.57867432
958	0.00953	49.5713501	46.03543472	42.64684677	52.14962387	24.00961685
959	0.00954	41.54187393	46.33009338	41.02621841	51.41297531	31.08145142
960	0.00955	34.17538071	44.34114075	36.82731628	51.85496521	33.58605957
961	0.00956	36.82731628	39.84757996	30.93412209	50.4553299	32.77574539
962	0.00957	44.93046188	38.30061722	30.27113724	48.09805298	31.81810188
963	0.00958	48.68737411	39.1109314	31.08145142	46.6457489	33.95436385
964	0.00959	47.87705994	40.36323547	31.96543121	46.6457489	34.02804947
965	0.0096	47.65606308	40.068573	29.31349373	45.51977921	32.84941101
966	0.00961	48.90836716	43.08883667	29.01883316	44.04648209	31.74443626
967	0.00962	46.33009338	46.33009338	31.67077065	44.63579941	30.63946152
968	0.00963	42.94150543	47.80339432	34.76469803	47.2877388	26.9562149
969	0.00964	45.07778931	46.10910034	33.43872833	48.6137085	27.3982048
970	0.00965	54.65423203	47.43507004	33.51239395	48.83470154	28.72417259
971	0.00966	60.32643127	49.93967819	35.50134659	49.42402267	26.51422501
972	0.00967	58.1164856	51.11831665	36.60632324	51.85496521	24.00961685
973	0.00968	55.53821182	49.71868134	34.98569489	51.70763397	29.75548172
974	0.00969	58.70580292	49.71868134	34.02804947	49.64501572	37.85862732
975	0.0097	62.46271515	50.82365417	34.24904251	46.6457489	41.02621841
976	0.00971	62.24172211	52.73894501	36.23799896	49.49768829	37.85862732
977	0.00972	60.47376251	52.14962387	37.71129608	53.47559357	35.13302231
978	0.00973	60.47376251	50.67632675	40.9525528	56.49585724	33.88071823
979	0.00974	60.54742813	49.71868134	41.39454269	58.26381302	33.88071823
980	0.00975	58.92679977	54.5069046	39.92124557	59.14779282	32.70207977
981	0.00976	56.56952286	58.63214111	36.97464752	57.45349884	35.35401917
982	0.00977	55.63287048	59.36878967	35.35401917	54.65423203	40.73155975
983	0.00978	54.21224213	54.80156326	33.58605957	54.21224213	46.8457489
984	0.00979	49.64501572	48.1717186	33.36506653	58.19015121	47.43507004
985	0.0098	39.6265831	40.73155975	32.18642426	63.05203629	46.403759
986	0.00981	30.49213219	41.61553955	30.19747162	65.11465454	46.55109024
987	0.00982	32.70207977	50.38166428	25.1145916	61.87339783	47.65606308
988	0.00983	42.13119125	54.35957336	22.38898849	56.27486038	47.21407318
989	0.00984	43.60449219	45.29878616	21.0630188	50.60266113	50.38166428
990	0.00985	40.068573	35.64867783	22.97830772	48.76103592	54.13857651
991	0.00986	39.40559006	35.05935669	25.48291588	50.23433685	55.75920868
992	0.00987	45.81443787	41.98386383	26.44055939	51.85496521	56.93784714
993	0.00988	49.27669144	45.9617691	23.71495819	51.11831665	58.48480988
994	0.00989	46.10910034	46.403759	23.56762695	48.76103592	57.01150894
995	0.0099	39.92124557	45.15145493	25.77757645	43.01517105	56.56952286
996	0.00991	40.9525528	46.62475586	27.8401947	36.97464752	58.48480988
997	0.00992	45.66711044	46.403759	25.92490578	32.26008987	60.10543823
998	0.00993	47.65606308	46.62475586	24.59893608	31.22878075	57.74816132
999	0.00994	43.89915085	47.65606308	23.93595314	30.19747162	54.87522888
1000	0.00995	38.30061722	49.5713501	26.21956635	31.08145142	50.89731979

	AI	AJ	AK	AL	AM	AN
942	27.02988052	34.45174789	17.61284256	36.22426224	-25.73995399	-40.51092529
943	30.63946152	31.05442429	16.20960045	38.51376343	-30.9836483	-40.65863419
944	38.07962036	24.92447281	15.54490662	36.88895798	-33.27314758	-39.40310287
945	41.61553955	21.82256889	13.99395466	29.94660187	-34.08555222	-37.11360168
946	41.32087708	27.65710068	14.51093864	25.95843887	-30.90979385	-34.23326111
947	37.3429718	37.62750626	16.65272903	24.85061646	-26.10922813	-29.87582588
948	36.75365067	38.43991089	18.86837387	25.81072998	-21.97335625	-26.77392197
949	36.09066772	26.40156937	19.60692215	25.51531029	-20.71782494	-25.73995399
950	38.6689415	15.84032536	19.38535881	27.28782654	-19.53614616	-26.18308258
951	40.36323547	16.57887459	18.49909973	28.9126339	-18.64988899	-25.5922451
952	42.86784363	22.04413223	19.16379356	30.02045631	-19.09301758	-23.7458725
953	42.86784363	24.11206818	19.60692215	28.6172142	-22.26877594	-19.53614616
954	42.72051239	24.62905312	20.86245537	27.43553734	-24.26285744	-13.70161438
955	41.39454269	28.24794006	19.60692215	25.88458443	-23.52430916	1.29092038
956	42.42585373	30.09431076	17.16971207	26.25385857	-19.31458282	20.34547043
957	43.01517105	27.87866592	14.51093864	24.99832726	-13.62775898	21.60100365
958	45.22512054	25.0721817	13.03384113	22.63497162	-9.3441782	2.17717862
959	46.8457489	25.36760139	9.41495323	19.75463295	-7.86708069	-11.55982304
960	48.46637726	26.47542381	7.71629238	20.05005264	-9.78730679	-14.07088852
961	46.8457489	24.99832726	6.31305027	21.97027779	-12.22451687	-15.84340477
962	45.07778931	23.89050484	7.64243746	24.40748787	-10.74742031	-22.63805008
963	44.34114075	24.25977898	9.04567909	25.36760139	-5.35601616	-26.92163277
964	44.19380951	24.77676201	11.03976059	26.10614967	-2.62338662	-29.87582588
965	41.09988403	23.96435928	10.15350246	24.62905312	-5.79914522	-32.23918152
966	38.00595474	22.70882607	7.05159855	23.00424576	-10.08272648	-35.41493988
967	34.91202927	19.90234184	1.51248491	20.93630981	-11.41211319	-37.40901947
968	36.9009819	16.72658348	-0.11232179	18.94222832	-11.2644043	-39.25539017
969	38.2269516	13.84624481	-0.55545086	16.57887459	-13.62775898	-40.36321259
970	39.6265831	13.84624481	-0.62930572	17.09585762	-18.72374344	-44.20366669
971	39.03726578	14.65864754	-2.91880608	17.24356842	-24.41056633	-51.1460228
972	43.89915085	13.84624481	-6.5376935	14.88021278	-26.77392197	-57.27597427
973	49.93967819	10.4489212	-10.67356491	10.4489212	-27.80788994	-58.30994415
974	53.32826233	9.41495323	-11.41211319	8.01171112	-30.17124557	-58.97463608
975	51.56030655	10.00579262	-4.02662897	4.98366261	-35.93192291	-61.33798981
976	50.16067123	10.96590519	14.43708324	0.84779125	-39.77237701	-65.17844391
977	47.87705994	8.67640495	25.29374695	-3.28808022	-40.21550369	-65.0307312
978	48.31904602	0.55237186	15.91418076	-1.95869303	-35.34108353	-63.25821686
979	48.98203278	-4.9128871	0.40466216	1.29092038	-30.17124557	-62.81509018
980	51.56030655	1.43862998	-0.33388633	4.02354956	-25.22297096	-63.4797821
981	54.13857651	10.96590519	4.83595324	4.31896925	-21.45637321	-56.90670013
982	56.20119476	10.89205074	7.12545347	5.72221136	-20.49625969	-45.23763275
983	54.0649147	5.50064659	4.98366261	8.15942097	-20.86553383	-35.26723099
984	52.07595825	4.09740448	5.79606628	11.99987316	-19.53614616	-31.42677689
985	52.73894501	5.2790823	6.9038887	12.95998669	-19.68385696	-26.77392197
986	54.13857651	7.93785667	9.85808277	11.33517933	-22.0472126	-20.27469635
987	51.41297531	11.33517933	12.81227684	6.16534042	-23.96743774	-16.5080986
988	49.05569839	11.03976059	14.43708324	3.21114635	-24.92755127	-17.83748627
989	48.31904602	5.2790823	10.37506676	2.02946877	-26.18308258	-13.48004913
990	51.41297531	0.84779125	6.75617933	2.76801729	-28.10330963	-3.43579006
991	53.10726929	-0.03846694	5.13137245	2.1033237	-26.54643822	3.21114635
992	53.10726929	-0.48159602	4.54053354	2.54645276	-25.88766479	3.65427542
993	50.30800247	-4.02662897	1.06935585	2.9157269	-22.78576088	5.2790823
994	52.07595825	-6.38998413	0.1830976	2.47259784	-22.34263039	9.19338894
995	55.09622192	-8.45792007	2.54645276	0.40466216	-24.63213158	17.76055145
996	56.42219162	-10.82127476	4.09740448	1.06935585	-23.08118057	26.69698906
997	51.04465103	-12.8892107	0.40466216	4.76209831	-18.42832375	23.3735199
998	46.10910034	-7.71937132	-2.69724154	7.79014683	-13.77546883	8.8979702
999	40.87888718	2.17717862	-1.66327357	6.38690472	-14.29245281	2.25103331
1000	40.58422852	5.05751753	3.21114635	5.50064659	-15.40027523	1.88175917

	AO	AP	AQ	AR	AS	AT
942	-5.87300014	359.9272461	167.2931366	36.70454025	29.38715744	29.42961693
943	-5.50372553	364.1261597	156.5841827	35.94333649	32.23553467	28.59259605
944	-6.09456444	364.862793	138.7851715	32.48108673	36.21343994	25.78611183
945	-7.71937132	368.4723816	128.2977753	28.45406914	36.36077499	21.92104149
946	-5.06059647	373.4815979	119.4351959	29.23982811	33.90527344	22.70882607
947	-1.44170904	377.1648254	107.5445633	31.032341	32.60385895	26.37695122
948	2.76801729	373.0396118	90.92722321	32.99674225	34.51914978	27.70633888
949	2.62030768	369.135376	78.07648468	35.47679138	37.14653015	23.84126663
950	1.14321065	367.9567261	68.91847992	38.6689415	38.84082413	20.83783722
951	-3.43579006	368.0303955	64.48719025	39.97035217	38.07962036	21.3302021
952	-3.8050642	366.8517456	65.66886902	42.52407074	37.09742355	23.74279404
953	-2.10640264	365.2311096	67.88451385	46.18276596	36.53265762	24.11206818
954	-1.7371285	365.3784485	66.03813934	47.75428391	36.99920273	24.30901527
955	-6.83311319	365.8204346	60.20360947	44.88135147	37.44119263	24.57981491
956	-9.49188805	366.0414429	52.81812286	43.30982971	38.20239639	24.50596046
957	-8.01479053	368.9880371	45.28492737	44.29203033	38.86537933	22.46264458
958	-3.95277381	371.271637	37.1608963	46.08454514	40.46145248	20.24699783
959	-2.47567701	372.0083008	33.39429855	42.96606064	43.11339188	18.17906189
960	-4.17433834	366.7780762	33.6158638	38.44794464	44.63579941	18.08058929
961	-7.86708069	362.210846	41.14905548	35.86967468	43.35894012	17.76055145
962	-8.82719421	357.864624	40.7059288	37.83407211	41.66464996	18.64681053
963	-11.2644043	357.7172852	26.59965134	39.62658691	41.71375656	19.55768585
964	-15.69569492	359.1905823	14.48745728	40.06857681	41.68920135	20.64089012
965	-20.86553383	360.4429016	18.54947281	39.01271057	39.82302475	19.58230591
966	-23.00732422	363.3894959	27.55976486	40.33868027	37.93228912	17.5882225
967	-26.18308258	370.4613342	30.36624908	41.44365311	36.72909546	14.1170454
968	-28.9895668	369.5773621	27.19049072	41.83653259	37.04831314	11.85216331
969	-34.89795685	361.1795349	29.03686142	41.54187393	38.07962036	9.95655632
970	-39.10768127	352.5607605	30.36624908	45.20056534	39.06182098	10.10426521
971	-42.43114853	353.8130493	28.51987839	48.58915329	38.32517242	9.66113663
972	-41.98802185	358.9696045	24.60557175	48.6137085	39.92124557	7.39625454
973	-42.87427902	362.3581848	20.61740875	46.74752808	43.80093002	3.4080925
974	-42.94813538	363.0211792	17.66321564	47.48417664	46.94396973	2.00485039
975	-44.35137558	363.9788208	15.00444126	49.17847061	46.47742462	3.65427542
976	-43.98210144	365.5994568	15.29986	50.4062233	45.83899689	8.75026035
977	-45.01607132	367.5884094	17.95863533	50.11156082	45.495224	10.22735691
978	-43.16969681	367.2937317	19.50958633	50.70088196	46.23187256	4.83595324
979	-38.88611603	369.6510315	23.27618408	50.55355072	47.04218674	-1.0724349
980	-32.5345993	371.271637	22.90690994	51.11831665	47.80339432	1.70943105
981	-27.06934166	375.3968811	20.10042572	50.72543716	48.98203278	6.70694256
982	-21.82564735	375.8388672	13.3796339	50.18522644	50.52899551	7.91323853
983	-17.39435577	373.334259	10.35158539	47.53328705	51.70763397	6.21457672
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989	-4.83903217	353.4447327	15.00444126	36.65543365	49.76779175	5.89453936
990	-8.38406467	354.3287048	16.03840828	32.89852142	51.43753052	3.45732927
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993	-17.76362991	346.7412109	24.01473236	39.65113831	53.30371094	-0.01384874
994	-18.50217819	343.7209473	25.63953972	38.6934967	52.61616898	-1.2447629
995	-15.76954937	343.5736389	28.22445869	36.95009232	51.56030655	-1.83560169
996	-12.44608116	340.9216919	29.9231205	38.47249985	50.62721634	-1.8848381
997	-14.58787251	336.5018005	29.62770081	39.33192444	47.80339432	-2.57415009
998	-13.33233929	335.3231506	30.36624908	39.62658691	45.02867889	-0.8754887
999	-11.55982304	339.743042	35.68379974	38.49705505	41.98386383	2.30026984
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1001								.004950	43.90	2.18	47.66	-1.66	23.94	6.39
1002								.004960	38.30	5.06	49.57	3.21	26.22	5.50
1003								.004970	34.64	-2.40	46.62	3.60	30.79	6.61
1004								.004980	35.65	-9.94	43.90	2.47	34.99	8.82
1005								.004990	39.18	-10.38	42.13	2.62	32.11	7.49
1006								.005000	39.48	-6.46	42.87	5.57	27.91	4.25
1007								.005010	36.31	-3.88	40.95	4.91	26.66	1.59
1008								.005020	34.69	-2.03	39.99	4.10	28.58	2.62
1009								.005030	39.18	1.07	39.33	6.39	27.25	8.01
1010								.005040	46.77	3.80	40.58	10.74	24.45	21.75
1011								.005050	52.44	2.25	39.33	11.41	23.71	33.79
1012								.005060	53.18	-1.59	38.30	13.62	27.55	29.06
1013								.005070	45.67	-4.03	37.42	16.95	29.46	13.26
1014								.005080	31.89	-3.51	35.94	19.46	29.68	9.86
1015								.005090	18.93	-4.32	30.49	19.46	27.25	17.10
1016								.005100	18.85	-5.73	27.91	21.08	24.60	21.60
1017								.005110	27.69	-7.13	30.05	22.27	23.86	18.28
1018								.005120	37.49	-4.84	36.24	24.04	28.36	16.65
1019								.005130	39.55	-.63	37.42	24.92	29.53	16.95
1020								.005140	34.40	2.92	35.50	26.62	20.84	16.87
1021								.005150	27.47	2.77	33.66	32.01	9.28	15.77
1022								.005160	26.66	1.07	34.91	33.27	10.31	17.02
1023								.005170	29.90	2.03	32.70	29.95	21.43	19.53
1024								.005180	30.64	4.91	30.34	28.91	30.86	22.27
1025								.005190	26.44	8.01	29.02	30.54	33.29	21.90
1026								.005200	22.68	8.01	32.26	35.71	34.18	18.87
1027								.005210	23.05	4.54	33.14	39.99	33.73	17.83
1028								.005220	26.96	4.54	31.23	42.65	33.22	22.86
1029								.005230	29.98	7.35	28.87	41.62	30.93	27.58
1030								.005240	31.38	9.05	32.26	42.65	30.93	27.29
1031								.005250	31.97	8.16	35.35	42.80	32.78	22.12
1032								.005260	32.11	8.53	36.75	40.43	35.94	18.57
1033								.005270	31.89	10.23	36.53	34.97	36.24	19.46
1034								.005280	29.90	11.34	35.94	33.86	33.73	23.45
1035								.005290	24.89	8.82	31.30	36.15	32.63	24.19
1036								.005300	22.17	6.31	27.55	40.51	35.72	24.11
1037								.005310	23.05	5.43	27.91	42.21	36.90	27.51
1038								.005320	27.10	8.45	31.82	42.72	35.58	34.53
1039								.005330	27.69	10.97	32.11	43.24	33.29	39.03
1040								.005340	26.44	11.19	31.52	46.64	35.35	39.18
1041								.005350	24.62	9.12	31.30	47.89	37.71	34.45
1042								.005360	27.10	10.01	35.43	45.83	38.82	31.79
1043								.005370	27.25	11.04	38.01	41.32	35.58	31.13
1044								.005380	25.19	11.04	38.23	40.36	31.16	31.28
1045								.005390	24.89	10.89	34.62	40.14	26.66	28.99
1046								.005400	27.84	12.44	31.97	42.50	23.71	27.29
1047								.005410	27.32	14.51	27.69	43.31	21.43	26.99
1048								.005420	23.71	17.10	24.16	44.72	21.06	27.14
1049								.005430	21.36	19.16	21.65	43.24	21.80	24.63
1050								.005440	20.77	19.98	24.60	41.32	22.24	21.82
1051								.005450	19.22	18.87	25.48	36.45	21.95	22.34
1052								.005460	20.25	17.83	24.16	35.12	23.42	26.70
1053								.005470	23.79	16.51	22.39	37.33	24.01	28.03
1054								.005480	25.56	15.99	25.19	40.58	23.86	27.36
1055								.005490	23.27	14.51	25.04	37.26	20.77	26.99
1056								.005500	22.24	15.77	19.52	33.20	17.90	29.06
1057								.005510	23.94	19.02	12.67	34.01	14.80	28.91
1058								.005520	28.58	23.74	12.15	39.03	12.00	26.99
1059								.005530	31.89	25.81	15.17	39.77	7.66	27.07

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1001	30.20	-14.29	54.88	2.25	40.88	-11.56	.004950	339.74	35.68	38.50	2.30	41.96	-7.87	
1002	31.08	-15.40	50.90	1.88	40.58	-8.90	.004960	342.98	43.07	38.03	4.59	40.85	-7.47	
1003	30.71	-16.66	47.66	-2.84	41.91	-7.79	.004970	344.60	52.15	37.42	2.67	40.09	-9.10	
1004	30.34	-16.73	45.52	-14.81	42.65	-7.72	.004980	346.08	55.92	38.18	.45	39.50	-13.09	
1005	29.90	-16.80	47.21	-23.01	39.77	-8.68	.004990	350.50	55.11	37.81	-.09	38.96	-16.16	
1006	29.83	-17.03	49.35	-27.00	40.51	-9.34	.005000	347.99	48.68	36.75	1.12	39.90	-17.79	
1007	28.87	-16.14	53.25	-28.92	45.45	-10.08	.005010	338.71	41.59	34.64	.87	42.52	-18.38	
1008	27.32	-11.78	52.74	-34.45	51.41	-7.28	.005020	329.87	39.15	34.42	1.56	43.83	-17.84	
1009	26.59	-2.03	48.61	-38.59	53.55	2.77	.005030	329.72	45.58	35.26	5.16	42.92	-12.62	
1010	27.47	5.57	41.54	-38.81	50.75	26.55	.005040	333.26	53.19	37.27	12.10	39.92	-2.23	
1011	30.05	2.69	39.55	-32.39	42.43	41.98	.005050	338.42	54.81	38.50	15.82	37.34	4.10	
1012	32.48	-1.37	38.82	-26.18	36.46	30.32	.005060	339.45	50.16	39.68	13.70	35.92	.92	
1013	31.08	2.69	39.48	-20.72	35.65	8.60	.005070	340.48	54.52	37.51	8.73	35.40	-3.14	
1014	26.59	6.83	39.70	-16.14	37.56	6.53	.005080	337.46	63.08	32.51	8.60	34.62	-.92	
1015	23.86	3.06	41.17	-9.49	37.20	16.06	.005090	335.62	69.58	25.56	10.74	34.08	3.21	
1016	26.88	-.78	41.54	-4.32	38.52	24.48	.005100	333.11	66.11	23.79	12.32	35.65	6.46	
1017	33.22	2.55	42.35	1.73	37.34	27.44	.005110	332.45	54.37	27.20	11.14	37.64	10.57	
1018	39.77	9.34	42.57	9.64	35.72	31.42	.005120	331.93	40.12	34.03	11.95	39.36	16.80	
1019	42.50	18.57	44.27	19.02	33.29	36.00	.005130	329.21	39.67	35.50	13.75	40.02	24.53	
1020	40.07	34.01	45.96	26.55	35.87	45.97	.005140	324.72	55.03	30.25	16.14	40.63	35.51	
1021	35.21	37.63	46.17	33.12	37.71	58.75	.005150	320.59	66.85	23.47	16.85	40.36	43.17	
1022	35.80	22.49	46.02	37.18	36.46	62.37	.005160	317.94	66.92	23.96	17.12	40.09	40.68	
1023	38.60	7.79	47.44	38.37	31.52	47.38	.005170	317.79	65.52	28.01	17.17	39.18	31.18	
1024	42.13	9.86	47.73	38.66	30.64	33.79	.005180	317.42	66.56	30.61	18.70	40.17	27.44	
1025	44.34	17.39	49.65	41.47	31.45	33.57	.005190	316.02	69.95	29.58	20.15	41.81	30.81	
1026	44.19	21.82	50.01	42.21	32.63	37.11	.005200	310.35	71.06	29.71	20.86	42.28	33.71	
1027	41.17	22.63	51.12	40.14	29.90	31.20	.005210	306.00	73.35	29.98	20.79	40.73	31.33	
1028	41.76	22.63	48.54	34.97	26.96	26.40	.005220	306.45	73.79	30.47	23.35	39.09	28.00	
1029	48.10	22.78	43.97	32.61	25.63	29.36	.005230	312.34	74.61	29.93	25.52	39.23	28.25	
1030	52.37	23.45	41.32	30.46	26.81	35.04	.005240	318.97	78.37	31.52	26.33	40.17	29.65	
1031	50.46	23.60	44.86	28.76	26.81	34.30	.005250	321.70	83.39	33.37	24.36	40.71	28.89	
1032	45.23	24.19	46.55	25.37	30.05	32.46	.005260	320.30	85.02	34.94	22.51	40.61	27.34	
1033	41.32	26.55	46.26	24.48	34.32	33.34	.005270	320.96	86.05	34.89	21.55	40.63	28.12	
1034	42.87	29.50	41.25	21.23	37.56	37.63	.005280	321.33	87.83	33.19	22.88	40.56	29.45	
1035	47.36	31.05	37.56	18.28	36.61	39.99	.005290	320.96	97.28	29.61	23.05	40.51	29.77	
1036	52.96	31.13	37.49	16.21	35.65	43.54	.005300	317.35	102.52	28.48	23.64	42.03	30.29	
1037	54.29	30.32	41.54	18.72	33.29	47.38	.005310	318.09	101.12	29.29	25.05	43.04	32.14	
1038	54.43	29.95	41.91	19.75	31.82	52.40	.005320	320.88	97.50	31.50	28.57	42.72	34.03	
1039	55.39	29.58	38.82	17.76	30.64	54.98	.005330	321.99	99.64	31.03	31.08	41.62	34.11	
1040	58.78	30.91	37.93	15.77	32.04	57.72	.005340	324.42	103.70	31.11	32.33	42.92	34.80	
1041	62.09	31.72	41.54	18.43	30.34	58.23	.005350	331.79	105.62	31.28	30.49	44.66	36.13	
1042	64.82	32.31	44.49	23.74	28.72	59.64	.005360	339.67	106.58	33.78	29.21	46.01	38.56	
1043	62.02	30.39	44.49	28.03	26.22	58.31	.005370	342.54	107.62	33.61	27.83	44.24	38.91	
1044	55.98	28.17	42.87	28.40	28.58	56.53	.005380	335.91	106.29	31.52	27.56	42.47	37.70	
1045	50.23	24.33	41.69	28.32	30.05	54.91	.005390	326.78	106.44	28.72	26.67	40.66	35.85	
1046	50.09	22.49	38.89	30.09	29.46	56.53	.005400	318.09	109.17	27.84	27.41	39.48	36.37	
1047	51.93	21.82	36.68	36.08	25.04	55.35	.005410	315.43	115.96	25.48	28.27	37.88	37.75	
1048	53.77	23.89	36.53	48.26	21.36	54.17	.005420	316.98	119.73	22.98	29.65	37.22	42.11	
1049	53.03	26.92	42.43	64.51	19.88	54.98	.005430	322.51	119.73	21.60	29.01	38.45	48.80	
1050	51.71	28.32	49.35	68.35	22.17	58.75	.005440	328.25	119.73	22.54	27.71	41.08	51.81	
1051	51.04	28.62	54.36	59.27	23.27	59.64	.005450	330.68	124.01	22.22	25.88	42.89	49.17	
1052	53.48	31.42	54.51	53.36	24.89	59.93	.005460	327.88	128.67	22.61	26.55	44.29	48.24	
1053	56.05	35.71	54.29	59.78	24.75	58.60	.005470	325.89	132.06	23.40	27.29	45.03	51.36	
1054	57.01	35.85	53.25	62.89	25.26	57.64	.005480	323.91	131.10	24.87	27.98	45.18	52.13	
1055	54.65	33.64	52.52	58.45	23.71	57.05	.005490	325.89	131.77	23.03	26.25	43.63	49.72	
1056	49.20	34.08	50.53	53.73	22.09	59.49	.005500	328.32	131.10	19.88	26.01	40.61	49.10	
1057	41.91	37.26	50.16	54.76	19.74	59.19	.005510	333.56	130.59	17.13	27.31	37.27	50.40	
1058	38.08	39.25	49.35	54.54	21.06	57.72	.005520	336.65	129.63	17.58	29.92	36.16	50.50	
1059	39.70	40.88	50.68	52.10	24.16	53.06	.005530	336.28	129.92	18.24	30.88	38.18	48.68	

	AC	AD	AE	AF	AG	AH
1001	0.00996	34.83836365	46.62475586	30.78679276	30.71312714	47.65606308
1002	0.00997	35.64867783	43.89915085	34.98569489	30.34480286	45.51977921
1003	0.00998	39.1845932	42.13119125	32.11276245	29.90281296	47.21407318
1004	0.00999	39.47925568	42.86784363	27.91385841	29.82914734	49.35035706
1005	0.01	36.31166077	40.9525528	26.66155434	28.87150383	53.25460052
1006	0.01001	34.69103241	39.99491119	28.57684326	27.32453918	52.73894501
1007	0.01002	39.1845932	39.33192444	27.25087547	26.58789063	48.6137085
1008	0.01003	46.77208328	40.58422852	24.45160675	27.47187042	41.54187393
1009	0.01004	52.44428635	39.33192444	23.71495819	30.05014229	39.5529213
1010	0.01005	53.18093491	38.30061722	27.54553413	32.48106673	38.81626892
1011	0.01006	45.66711044	37.41663742	29.46082306	31.08145142	39.47925568
1012	0.01007	31.89176559	35.94333649	29.68181801	26.58789063	39.70024872
1013	0.01008	18.92673683	30.49213219	27.25087547	23.86228752	41.17354965
1014	0.01009	18.85307121	27.91385841	24.59893608	26.88254929	41.54187393
1015	0.0101	27.69286346	30.05014229	23.86228752	33.21773529	42.35218811
1016	0.01011	37.49030304	36.23799896	28.35584831	39.77391434	42.57318115
1017	0.01012	39.5529213	37.41663742	29.53448868	42.49951553	44.26747513
1018	0.01013	34.39637375	35.50134659	20.84202385	40.068573	45.9617691
1019	0.01014	27.47187042	33.65972519	9.27662945	35.20668793	48.1717186
1020	0.01015	26.66155434	34.91202927	10.30793858	35.79600906	48.02436736
1021	0.01016	29.90281296	32.70207977	21.43134499	38.59527588	47.43507004
1022	0.01017	30.63946152	30.34480286	30.86045647	42.13119125	47.7297287
1023	0.01018	26.44055939	29.01883316	33.29140091	44.34114075	49.64501572
1024	0.01019	22.68364906	32.26008987	34.17538071	44.19380951	50.01334
1025	0.0102	23.05197334	33.14406967	33.73339081	41.17354965	51.11831665
1026	0.01021	26.9562149	31.22878075	33.21773529	41.76286697	48.54004288
1027	0.01022	29.97647667	28.87150383	30.93412209	48.09805298	43.97281647
1028	0.01023	31.37611198	32.26008987	30.93412209	52.37062073	41.32087708
1029	0.01024	31.96543121	35.35401917	32.77574539	50.4553299	44.85679626
1030	0.01025	32.11276245	36.75365067	35.94333649	45.22512054	46.55109024
1031	0.01026	31.89176559	36.53265762	36.23799896	41.32087708	46.25642776
1032	0.01027	29.90281296	35.94333649	33.73339081	42.86784363	41.24721527
1033	0.01028	24.89359665	31.30244637	32.62841415	47.36140442	37.56396484
1034	0.01029	22.16799355	27.54553413	35.72234344	52.95993805	37.49030304
1035	0.0103	23.05197334	27.91385841	36.9009819	54.28590775	41.54187393
1036	0.01031	27.10354424	31.81810188	35.57501221	54.43323898	41.91019821
1037	0.01032	27.69286346	32.11276245	33.29140091	55.39088058	38.81626892
1038	0.01033	26.44055939	31.52344131	35.35401917	58.77946854	37.93229294
1039	0.01034	24.81993103	31.30244637	37.71129608	62.09439087	41.54187393
1040	0.01035	27.10354424	35.42768478	38.81626892	64.81999207	44.48847198
1041	0.01036	27.25087547	38.00595474	35.57501221	62.02072525	44.48847198
1042	0.01037	25.18825722	38.2269516	31.15511703	55.98020172	42.86784363
1043	0.01038	24.89359665	34.61737061	26.66155434	50.23433685	41.68920135
1044	0.01039	27.8401947	31.96543121	23.71495819	50.08700562	38.88993454
1045	0.0104	27.32453918	27.69286346	21.43134499	51.92863083	36.67998886
1046	0.01041	23.71495819	24.15694809	21.0630188	53.77025223	36.53265762
1047	0.01042	21.35767937	21.65233994	21.79966927	53.03360367	42.42585373
1048	0.01043	20.76836014	24.59893608	22.24165916	51.70763397	49.35035706
1049	0.01044	19.22139549	25.48291588	21.9469986	51.04465103	54.35957336
1050	0.01045	20.25270462	24.15694809	23.42029762	53.47559357	54.5069046
1051	0.01046	23.7886219	22.38898849	24.00961685	56.05386734	54.28590775
1052	0.01047	25.5565815	25.18825722	23.86228752	57.01150894	53.25460052
1053	0.01048	23.27296829	25.04092598	20.76836014	54.65423203	52.51794815
1054	0.01049	22.24165916	19.51605606	17.8954277	49.20302582	50.52899551
1055	0.0105	23.93595314	12.66521645	14.80149937	41.91019821	50.16067123
1056	0.01051	28.57684326	12.14956188	12.0022316	38.07962036	49.35035706
1057	0.01052	31.89176559	15.1698246	7.65600061	39.70024872	50.67632675
1058	0.01053	33.29140091	16.93778229	7.72966528	45.22512054	52.59161377
1059	0.01054	31.4497757	12.51788616	11.19191742	48.1717186	55.83287048

	AI	AJ	AK	AL	AM	AN
1001	41.91019821	-2.40182209	3.80198526	6.60846949	-16.6558075	-2.84495115
1002	42.64684677	-9.93501663	2.47259784	8.8241148	-16.72966194	-14.8094368
1003	39.77391434	-10.37814617	2.62030768	7.49472761	-16.8035183	-23.00732422
1004	40.5105629	-6.46383858	5.57450151	4.24511433	-17.02508163	-26.99548721
1005	45.44611359	-3.87891912	4.90980816	1.58633971	-16.13882446	-28.91571236
1006	51.41297531	-2.03254795	4.09740448	2.62030768	-11.78138828	-34.45482635
1007	53.54925919	1.06935585	6.38690472	8.01171112	-2.03254795	-38.59069824
1008	50.74999237	3.80198526	10.7443409	21.74871254	5.57450151	-38.81226349
1009	42.42585373	2.25103331	11.40903473	33.78705215	2.69416237	-32.38689041
1010	36.458992	-1.58941877	13.62468052	29.06034279	-1.36785424	-26.18308258
1011	35.64867783	-4.02662897	16.94814873	13.25540543	2.69416237	-20.71782494
1012	37.56396484	-3.50964475	19.45921326	9.85808277	6.83003378	-16.13882446
1013	37.19564056	-4.32204819	19.45921326	17.09585762	3.06343675	-9.49188805
1014	38.52161026	-5.7252903	21.08402061	21.60100365	-0.77701545	-4.32204819
1015	37.3429718	-7.12853241	22.26569748	18.27753639	2.54645276	1.73404944
1016	35.72234344	-4.83903217	24.03821373	16.65272903	9.34109879	9.63651848
1017	33.29140091	-0.62930572	24.92447281	16.94814873	18.57295418	19.01608467
1018	35.86967087	2.9157269	28.6172142	16.87429428	34.0086174	26.54927826
1019	37.71129608	2.76801729	32.01453781	15.76647091	37.62750626	33.12236023
1020	36.458992	1.06935585	33.27006912	17.02200317	22.48726273	37.18437576
1021	31.52344131	2.02946877	29.94660187	19.5330677	7.79014683	38.36605453
1022	30.63946152	4.90980816	28.9126339	22.26569748	9.85808277	38.66147232
1023	31.4497757	8.01171112	30.53744125	21.89642334	17.39127731	41.46795654
1024	32.62841415	8.01171112	35.70727921	18.86837387	21.82256889	42.20650482
1025	29.90281296	4.54053354	39.99085999	17.8344059	22.63497162	40.13856888
1026	26.9562149	4.54053354	42.64963531	22.85653687	22.63497162	34.96873093
1027	25.63024521	7.34701777	41.61566925	27.58324623	22.78268051	32.6053772
1028	26.80888557	9.04567909	42.64963531	27.28782654	23.44737434	30.4635849
1029	26.80888557	8.15942097	42.79734421	22.11798859	23.59508514	28.764925
1030	30.05014229	8.52869511	40.43399048	18.57295418	24.18592262	25.36760139
1031	34.32270813	10.22735691	34.96873093	19.45921326	26.54927826	24.48134232
1032	37.56396484	11.33517933	33.86090851	23.44737434	29.50347328	21.23172951
1033	36.60632324	8.8241148	36.1504097	24.18592262	31.05442429	18.27753639
1034	35.64867783	6.31305027	40.50784683	24.11206818	31.12827873	16.20960045
1035	33.29140091	5.42679167	42.20650482	27.50939178	30.31587601	18.72066498
1036	31.81810188	8.45484066	42.72349167	34.52560043	29.94660187	19.75463295
1037	30.63946152	10.96590519	43.2404747	39.03074646	29.57732773	17.76055145
1038	32.03909683	11.18747044	46.63779831	39.17845917	30.90671539	15.76647091
1039	30.34480286	9.11953449	47.89332962	34.45174789	31.71911812	18.42524529
1040	28.72417259	10.00579262	45.82539368	31.79297256	32.3099556	23.74279404
1041	26.21956635	11.03976059	41.32024765	31.12827873	30.38973045	28.02637482
1042	28.57684326	11.03976059	40.36013412	31.27598953	28.17408562	28.39564896
1043	30.05014229	10.89205074	40.13856888	28.98648834	24.33363342	28.32179451
1044	29.46082306	12.4430027	42.50192642	27.28782654	22.48726273	30.09431076
1045	25.04092598	14.51093864	43.31433105	26.99240685	21.82256889	36.07655334
1046	21.35767937	17.09585762	44.71757126	27.14011765	23.89050484	48.26260376
1047	19.88438034	19.16379356	43.2404747	24.62905312	26.9185524	64.51067352
1048	22.16799355	19.97619629	41.32024765	21.82256889	28.32179451	68.35112
1049	23.27296829	18.86837387	36.44582748	22.33955193	28.6172142	59.2669754
1050	24.89359665	17.8344059	35.11643982	26.69698906	31.42369843	53.35858917
1051	24.74626732	16.50501823	37.33208466	28.02637482	35.70727921	59.78396225
1052	25.26192093	15.9880352	40.58169937	27.36168289	35.8549881	62.88586426
1053	23.71495819	14.51093864	37.25823212	26.99240685	33.63934326	58.45457458
1054	22.09432793	15.76647091	33.19621658	29.06034279	34.08247375	53.72786331
1055	19.73705101	19.01608467	34.0086174	28.9126339	37.25823212	54.76182938
1056	21.0630188	23.74279404	39.03074646	26.99240685	39.25231171	54.54026794
1057	24.15694809	25.81072998	39.76929474	27.0662632	40.87712097	52.10305786
1058	29.53448868	25.58916473	37.9967804	29.79889107	41.91108704	49.14886093
1059	32.26008987	24.40748787	35.8549881	29.79889107	40.50784683	46.63779831

	AO	AP	AQ	AR	AS	AT
1001	-7.79322624	344.60495	52.15343094	37.41663742	40.0931282	2.66954422
1002	-7.71937132	346.0782471	55.92002869	38.17784119	39.50381088	0.45389867
1003	-8.67948437	350.4981384	55.10762405	37.80951691	38.96360016	-0.08770362
1004	-9.3441782	347.9935303	48.68225098	36.75365448	39.89669037	1.11859238
1005	-10.08272648	338.711731	41.59218597	34.641922	42.52407074	0.87240958
1006	-7.27624226	329.8719482	39.15497589	34.42092896	43.82548523	1.56172144
1007	2.76801729	329.7246094	45.58034897	35.25579834	42.91695404	5.1559906
1008	26.54927826	333.2605286	53.187397	37.26930618	39.92124557	12.09834671
1009	41.98494339	338.4170837	54.81220245	38.49705505	37.3429718	15.81570625
1010	30.31587601	339.4483948	50.15934753	39.67569733	35.91878128	13.69853497
1011	8.60255051	340.4797058	54.51678467	37.51485825	35.40312958	8.72564125
1012	6.53461456	337.4594421	63.08394623	32.50563812	34.61736679	8.60255051
1013	16.06188965	335.6178284	69.58317566	25.5565815	34.07715988	10.7443409
1014	24.48134232	333.1132202	66.11199951	23.7886219	35.64867783	12.319911
1015	27.43553734	332.4502258	54.36907578	27.20176506	37.63763046	11.13823414
1016	31.42369843	331.9345703	40.11508942	34.02804947	39.35647964	11.95063686
1017	36.00270081	329.2089539	39.67195892	35.5013504	40.01946259	13.74777222
1018	45.97310257	324.7153931	55.0337677	30.24658203	40.63333893	16.135746
1019	58.74999237	320.5901794	66.85054779	23.46940804	40.36323547	16.84967613
1020	62.36888123	317.9382324	66.92440033	23.96050644	40.0931282	17.12047577
1021	47.37634659	317.7908936	65.52115631	28.01207924	39.18459702	17.16971207
1022	33.78705215	317.4225769	66.55512238	30.61490631	40.16679382	18.69604683
1023	33.56549072	316.0229492	69.95244598	29.58359718	41.81197739	20.14852524
1024	37.11052322	310.3507385	71.06027222	29.70637321	42.27852249	20.86245537
1025	31.20213318	306.0045166	73.34976959	29.97647858	40.73155975	20.78859901
1026	26.40156937	306.4465027	73.79290009	30.46757698	39.08637619	23.34890175
1027	29.35576248	312.3396912	74.6053009	29.92736816	39.23370361	25.51531029
1028	35.04258728	318.9695435	78.37190247	31.52344131	40.16679382	26.32771301
1029	34.304039	321.6951294	83.39402771	33.36506653	40.70700455	24.35825157
1030	32.4576683	320.2955017	85.01883698	34.93658447	40.60878372	22.51187897
1031	33.34392548	320.9584961	86.05280304	34.88747406	40.63333893	21.55176735
1032	37.62750626	321.3268127	87.82532501	33.19318008	40.55967331	22.88115311
1033	39.99085999	320.9584961	97.27873993	29.60815239	40.5105629	23.05348206
1034	43.53589249	317.3489075	102.5224381	28.47862434	42.03297424	23.64432144
1035	47.37634659	318.0855713	101.119194	29.28893852	43.03972626	25.04756355
1036	52.39847565	320.8848267	97.50030518	31.49888611	42.72051239	28.56797791
1037	54.98339462	321.9898071	99.64209747	31.03234291	41.61553574	31.07904243
1038	57.71602631	324.4207459	103.7041168	31.10600662	42.91695404	32.33457565
1039	58.23300934	331.7872315	105.6243439	31.27789116	44.66035461	30.48820496
1040	59.63624954	339.6693726	106.5844498	33.78250122	46.01087952	29.20805359
1041	58.30686188	342.5423279	107.6184235	33.61061478	44.24291992	27.82942963
1042	56.53434753	335.9124756	106.289032	31.52344131	42.47496414	27.55862808
1043	54.90954208	326.7780151	106.4367447	28.7241745	40.65789413	26.672369
1044	56.53434753	318.0855713	109.1693726	27.8401947	39.47925568	27.41091919
1045	55.35266876	315.4336243	115.9640198	25.48291588	37.88318253	28.27255821
1046	54.1709938	316.9805908	119.7306137	22.97830772	37.22019577	29.65118217
1047	54.98339462	322.5054627	119.7306137	21.60322952	38.44794464	29.01110649
1048	58.74999237	328.2513123	119.7306137	22.53631783	41.07532883	27.70633698
1049	59.63624954	330.682251	124.0141983	22.21710396	42.89239883	25.88458443
1050	59.93167114	327.8829956	128.6670532	22.60998344	44.29203033	26.54927826
1051	58.60228348	325.894043	132.0643768	23.39574242	45.02867889	27.28782654
1052	57.64216995	323.9050903	131.1042633	24.86904144	45.17601013	27.97713852
1053	57.05133057	325.894043	131.7689514	23.02741814	43.62904739	26.25385857
1054	59.48854065	328.3249817	131.1042633	19.88438034	40.60878372	26.00767708
1055	59.19312286	333.5552063	130.5872803	17.13422394	37.26930618	27.31244469
1056	57.71602631	336.6491089	129.6271668	17.57621193	36.16433334	29.92198181
1057	53.06316757	336.2807922	129.9225922	18.23919678	38.17784119	30.88209534
1058	50.4782486	332.2292175	129.0363312	19.31961632	42.45040894	31.12827873
1059	50.7736702	325.0837402	128.2239227	18.38652611	45.42155838	30.02045631

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1001	-9.0979948
1002	-13.08615685
1003	-16.16344261
1004	-17.78824997
1005	-18.37908745
1006	-17.83748627
1007	-12.61841011
1008	-2.22949457
1009	4.09740496
1010	0.92164642
1011	-3.14037061
1012	-0.92472535
1013	3.21114612
1014	6.46075964
1015	10.5720129
1016	16.80043793
1017	24.53058052
1018	35.51033401
1019	43.16661835
1020	40.68017197
1021	31.17751694
1022	27.43553543
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1025	31.32522392
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1027	28.24794006
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1060								.005540	33.29	25.59	16.94	38.00	7.73	29.80
1061								.005550	31.45	24.41	12.52	35.85	11.19	29.80
1062								.005560	31.52	24.92	7.66	35.71	13.84	28.91
1063								.005570	32.70	22.12	8.98	35.49	10.53	30.83
1064								.005580	35.06	19.02	16.50	37.48	6.33	33.49
1065								.005590	35.80	18.28	22.54	42.80	3.83	33.05
1066								.005600	35.72	18.87	24.30	46.64	3.38	33.49
1067								.005610	33.00	17.54	22.98	42.80	2.35	34.82
1068								.005620	31.08	17.10	23.86	37.78	1.91	36.15
1069								.005630	32.65	17.02	23.42	36.74	-1.63	35.63
1070								.005640	38.45	17.61	23.64	40.36	-6.19	36.00
1071								.005650	41.47	16.28	21.73	40.43	-5.82	38.37
1072								.005660	40.66	16.36	20.92	37.78	.44	41.02
1073								.005670	37.27	17.02	18.85	35.12	2.94	40.29
1074								.005680	35.06	17.76	18.93	37.18	-.15	38.37
1075								.005690	33.66	16.14	18.71	39.55	-4.28	36.08
1076								.005700	33.59	12.37	18.93	41.76	-6.86	30.83
1077								.005710	34.54	8.75	18.78	41.32	-7.52	27.14
1078								.005720	34.91	10.45	22.61	40.66	-3.39	31.50
1079								.005730	29.31	15.10	26.44	40.21	1.76	39.25
1080								.005740	22.24	16.95	26.81	39.84	3.83	41.84
1081								.005750	20.33	14.66	22.24	36.22	2.94	39.10
1082								.005760	26.81	15.25	19.37	39.10	5.67	38.74
1083								.005770	31.16	18.20	19.74	40.43	11.49	42.65
1084								.005780	28.72	20.35	20.33	41.10	16.20	46.86
1085								.005790	22.68	19.46	16.20	39.70	15.10	45.90
1086								.005800	22.02	21.16	11.93	39.18	12.15	42.35
1087								.005810	23.27	23.15	12.52	37.70	9.06	40.73
1088								.005820	24.01	24.48	15.83	36.59	6.26	42.28
1089								.005830	25.19	24.92	15.02	34.23	1.69	43.98
1090								.005840	29.17	26.33	13.11	32.53	-1.99	42.35
1091								.005850	29.68	26.40	11.19	29.80	-1.77	39.70
1092								.005860	28.13	26.99	9.79	29.06	4.41	39.70
1093								.005870	27.10	26.70	8.25	27.88	8.25	40.43
1094								.005880	28.21	25.88	10.31	27.95	5.00	39.33
1095								.005890	28.13	25.37	10.46	27.14	-.01	37.18
1096								.005900	25.48	26.84	8.98	28.99	-.15	36.96
1097								.005910	21.95	27.36	7.21	32.16	-.96	36.89
1098								.005920	19.44	26.62	6.11	33.57	-5.97	34.67
1099								.005930	18.56	27.51	3.31	27.44	-9.66	32.16
1100								.005940	18.71	28.91	2.35	21.82	-6.86	32.46
1101								.005950	19.74	28.54	2.65	22.78	-2.36	34.23
1102								.005960	20.25	28.91	3.83	25.66	1.17	36.45
1103								.005970	18.26	30.76	5.23	24.70	3.68	36.59
1104								.005980	19.52	34.97	9.57	26.40	4.27	35.85
1105								.005990	24.45	35.19	11.19	30.54	.88	35.04
1106								.006000	29.76	34.82	11.78	31.72	-2.07	35.12
1107								.006010	30.93	35.93	12.59	30.39	-3.25	33.79
1108								.006020	31.38	37.92	15.02	30.83	-.82	33.20
1109								.006030	30.71	33.71	14.21	29.65	2.20	33.34
1110								.006040	31.97	28.03	13.55	27.73	3.90	35.12
1111								.006050	33.73	25.96	18.19	26.18	.36	35.93
1112								.006060	36.63	30.39	28.95	27.21	-2.14	36.89
1113								.006070	35.80	35.19	36.61	29.06	-1.33	39.18
1114								.006080	34.84	38.00	36.68	31.42	-.23	43.31
1115								.006090	35.21	34.97	30.34	30.83	-2.66	45.97
1116								.006100	37.56	31.50	25.70	30.39	-2.22	45.90
1117								.006110	39.99	28.91	23.57	28.91	2.79	43.83
1118								.006120	40.07	27.66	25.04	29.87	7.95	42.65

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1060	45.23	41.91	52.59	49.15	29.53	50.48	.005540	332.23	129.04	19.32	31.13	42.45	47.18	
1061	48.17	40.51	55.83	46.64	32.26	50.77	.005550	325.08	128.22	18.39	30.02	45.42	45.97	
1062	49.42	39.77	58.19	43.39	31.60	54.91	.005560	318.82	130.14	17.67	29.85	46.40	46.02	
1063	47.36	40.36	59.22	41.54	27.77	54.24	.005570	318.16	135.61	17.40	29.48	44.78	45.38	
1064	45.15	42.21	56.79	38.66	27.03	49.59	.005580	320.59	139.82	19.30	30.00	42.99	43.49	
1065	46.33	40.43	53.62	34.97	27.55	44.13	.005590	323.91	143.14	20.72	31.37	42.50	39.84	
1066	51.85	39.40	52.22	32.46	29.53	45.97	.005600	323.24	141.30	21.14	33.00	44.54	39.28	
1067	51.27	44.42	52.81	34.01	29.24	49.08	.005610	324.27	137.46	19.44	31.72	44.44	42.50	
1068	40.66	52.77	51.41	34.75	30.05	51.36	.005620	329.58	133.54	18.95	30.34	40.71	46.29	
1069	25.48	50.18	50.60	34.53	30.79	49.44	.005630	335.77	131.33	18.21	29.80	35.62	44.72	
1070	22.68	42.35	49.50	32.09	31.74	46.05	.005640	333.19	130.07	18.63	31.33	34.64	40.16	
1071	30.27	40.29	49.28	30.24	32.33	41.98	.005650	323.32	130.59	19.12	31.69	37.29	37.50	
1072	37.56	45.75	47.58	30.83	34.18	40.43	.005660	319.93	132.14	20.67	31.72	39.77	39.01	
1073	38.23	47.38	47.58	35.71	33.73	40.14	.005670	324.57	135.54	19.69	30.81	39.85	41.07	
1074	38.01	42.65	46.11	37.85	34.03	43.68	.005680	324.79	136.57	17.94	31.10	39.38	41.39	
1075	39.63	39.18	44.34	36.96	33.44	47.01	.005690	321.55	142.18	16.03	30.59	39.14	41.05	
1076	40.51	41.76	42.94	33.64	33.29	49.22	.005700	315.88	146.61	15.22	28.32	38.91	41.54	
1077	37.56	43.83	45.52	34.01	33.14	49.89	.005710	314.99	148.61	15.27	25.74	38.74	42.58	
1078	34.76	43.24	47.51	34.67	34.18	50.63	.005720	314.62	147.65	18.04	27.53	38.82	42.85	
1079	34.84	42.50	48.69	36.45	32.55	50.04	.005730	314.55	149.72	19.17	31.52	38.69	42.99	
1080	38.67	43.83	46.70	36.15	31.08	51.81	.005740	311.09	154.07	17.63	32.88	38.82	43.93	
1081	40.81	43.46	46.11	34.89	31.52	53.58	.005750	307.33	159.02	15.17	30.66	39.48	43.98	
1082	39.48	42.95	46.48	32.16	35.06	54.54	.005760	308.07	163.75	17.28	31.03	40.34	43.22	
1083	35.65	43.98	48.61	33.79	34.84	51.96	.005770	312.41	167.74	20.79	33.76	39.70	43.24	
1084	35.06	48.56	47.66	37.11	35.13	51.59	.005780	314.25	167.44	21.75	36.10	39.28	45.75	
1085	37.42	54.69	46.18	40.73	33.73	51.73	.005790	313.67	166.26	17.99	35.02	39.11	49.05	
1086	38.89	59.41	44.78	42.65	32.63	52.62	.005800	310.35	166.92	15.37	34.23	38.77	51.56	
1087	35.72	57.49	43.60	43.39	30.71	49.22	.005810	308.36	171.87	14.95	33.86	36.68	50.04	
1088	34.47	55.20	41.03	42.35	32.41	42.65	.005820	306.74	174.97	15.37	34.45	35.97	46.74	
1089	35.72	55.20	39.85	42.95	34.32	36.00	.005830	309.10	175.12	13.97	34.38	36.63	44.72	
1090	37.56	56.09	40.14	45.90	37.20	41.02	.005840	313.22	171.21	13.43	33.74	38.30	47.67	
1091	36.31	52.03	41.98	48.56	37.27	49.81	.005850	316.91	167.00	13.03	31.97	38.52	50.13	
1092	36.75	47.60	40.51	47.08	35.28	50.92	.005860	318.90	165.15	14.11	31.92	37.51	48.53	
1093	36.24	43.91	38.45	45.01	32.19	43.61	.005870	320.00	163.90	14.53	31.67	35.62	44.18	
1094	35.06	41.17	37.27	43.24	35.06	40.36	.005880	319.63	161.24	14.51	31.05	35.80	41.59	
1095	32.63	39.25	39.11	44.42	38.37	40.43	.005890	320.44	160.72	12.86	29.90	36.70	41.37	
1096	34.18	42.65	39.77	44.57	37.86	39.84	.005900	320.37	162.20	11.44	30.93	37.27	42.35	
1097	37.49	45.09	37.20	42.80	33.00	39.70	.005910	322.06	165.52	9.40	32.14	35.89	42.53	
1098	41.84	43.98	31.08	38.14	32.85	43.31	.005920	323.83	163.16	6.53	31.62	35.26	41.81	
1099	45.30	43.46	27.25	37.41	37.05	45.90	.005930	327.37	161.24	4.07	29.04	36.53	42.26	
1100	47.58	49.00	22.46	39.40	41.62	47.89	.005940	325.45	160.65	4.73	27.73	37.22	45.43	
1101	49.94	57.57	20.99	41.54	39.92	48.85	.005950	320.30	159.39	6.67	28.52	36.95	49.32	
1102	49.94	62.00	24.75	39.33	37.20	50.40	.005960	316.83	154.89	8.42	30.34	37.29	50.58	
1103	44.19	59.78	31.30	37.48	34.54	51.22	.005970	317.79	151.64	9.06	30.69	36.68	49.49	
1104	40.51	56.39	32.78	36.74	34.91	54.32	.005980	319.26	154.15	11.12	32.41	36.07	49.15	
1105	41.91	54.76	31.67	38.81	33.00	55.57	.005990	320.00	160.06	12.17	33.59	35.53	49.72	
1106	45.23	53.95	32.48	41.47	31.08	55.06	.006000	319.41	162.12	13.16	33.89	36.26	50.16	
1107	42.87	51.36	37.93	44.20	30.49	53.14	.006010	320.74	161.61	13.43	33.37	37.10	49.57	
1108	38.15	48.26	41.69	45.75	33.73	56.17	.006020	320.66	159.32	15.19	33.98	37.86	50.06	
1109	37.78	44.72	40.44	47.45	34.99	58.23	.006030	320.00	160.20	15.71	32.24	37.74	50.13	
1110	42.94	44.64	36.68	50.92	37.27	59.49	.006040	318.82	162.27	16.47	30.29	38.96	51.68	
1111	43.75	44.72	36.97	56.68	39.18	55.94	.006050	319.41	162.57	17.43	29.36	39.97	52.45	
1112	42.28	44.72	39.48	59.12	42.13	52.55	.006060	323.39	160.06	21.21	31.50	41.30	52.13	
1113	41.98	42.95	40.88	59.05	42.43	51.14	.006070	327.66	158.28	23.69	34.48	41.76	51.04	
1114	46.33	43.02	39.85	59.12	42.13	53.28	.006080	327.96	160.65	23.76	37.58	42.77	51.81	
1115	48.76	44.13	41.91	63.18	40.81	53.43	.006090	322.80	162.27	20.96	37.26	43.83	53.58	
1116	47.88	47.01	45.45	65.77	40.51	50.55	.006100	317.05	160.35	20.35	35.93	44.61	54.44	
1117	43.90	49.89	46.85	65.18	38.37	47.08	.006110	317.05	158.87	22.12	33.89	43.04	54.05	
1118	41.84	51.96	43.68	58.01	35.50	49.67	.006120	320.59	157.69	24.35	33.39	40.34	53.21	

	AC	AD	AE	AF	AG	AH
1060	0.01055	31.52344131	7.65600061	13.84385586	49.42402267	58.19015121
1061	0.01056	32.70207977	8.98196888	10.52693353	47.36140442	59.22145844
1062	0.01057	35.05935669	16.49579239	6.33003139	45.15145493	56.7905159
1063	0.01058	35.79600906	22.53631783	3.82542348	46.33009338	53.6229248
1064	0.01059	35.72234344	24.30427742	3.38343382	51.85496521	52.22328949
1065	0.0106	32.99673843	22.97830772	2.35212469	51.26564407	52.81261063
1066	0.01061	31.08145142	23.86228752	1.91013503	40.65789413	51.41297531
1067	0.01062	32.84941101	23.42029762	-1.62578213	25.48291588	50.60266113
1068	0.01063	38.44794464	23.64129257	-6.19300842	22.68364906	49.49768829
1069	0.01064	41.46820831	21.72600365	-5.82468367	30.27113724	49.27669144
1070	0.01065	40.65789413	20.91568947	0.43683618	37.56396484	47.58239746
1071	0.01066	37.26930618	18.85307121	2.94144416	38.2269516	47.58239746
1072	0.01067	35.05935669	18.92673683	-0.15248336	38.00595474	46.10910034
1073	0.01068	33.65972519	18.70574188	-4.27771997	39.6265831	44.34114075
1074	0.01069	33.58605957	18.92673683	-6.85599279	40.5105629	42.94150543
1075	0.0107	34.54370499	18.77940559	-7.51897764	37.56396484	45.51977921
1076	0.01071	34.91202927	22.60998344	-3.39374065	34.76469803	47.50873184
1077	0.01072	29.31349373	26.44055939	1.7628051	34.83836365	48.68737411
1078	0.01073	22.24165916	26.80888557	3.82542348	38.6689415	46.69841766
1079	0.01074	20.32637024	22.24165916	2.94144416	40.80522537	46.10910034
1080	0.01075	26.80888557	19.36872673	5.66704702	39.47925568	46.47742462
1081	0.01076	31.15511703	19.73705101	11.46657703	35.64867783	48.6137085
1082	0.01077	28.72417259	20.32637024	16.20113373	35.05935669	47.65606308
1083	0.01078	22.68364906	16.20113373	15.09615898	37.41663742	46.18276596
1084	0.01079	22.02066422	11.92856693	12.14956188	38.88993454	44.78313065
1085	0.0108	23.27296829	12.51788616	9.0556345	35.72234344	43.60449219
1086	0.01081	24.00961685	15.83280849	6.25636673	34.47003937	41.02621841
1087	0.01082	25.18825722	15.02249432	1.6891402	35.72234344	39.84757996
1088	0.01083	29.16616249	13.10720634	-1.99410689	37.56396484	40.14223862
1089	0.01084	29.68181801	11.19191742	-1.77311206	36.31166077	41.98386383
1090	0.01085	28.13485336	9.79228401	4.41474295	36.75365067	40.5105629
1091	0.01086	27.10354424	8.24532032	8.24532032	36.23799896	38.44794464
1092	0.01087	28.20851898	10.30793858	5.00406265	35.05935669	37.26930618
1093	0.01088	28.13485336	10.45526791	-0.00515347	32.62641415	39.1109314
1094	0.01089	25.48291588	8.98196888	-0.15248336	34.17538071	39.77391434
1095	0.0109	21.9469986	7.21401072	-0.9627977	37.49030304	37.19564056
1096	0.01091	19.44239044	6.10903645	-5.97201347	41.83653259	31.08145142
1097	0.01092	18.55841255	3.30976892	-9.65526104	45.29878616	27.25087547
1098	0.01093	18.70574188	2.35212469	-6.85599279	47.58239746	22.46265411
1099	0.01094	19.73705101	2.64678431	-2.36243153	49.93967819	20.98935509
1100	0.01095	20.25270462	3.82542348	1.17346564	49.93967819	24.74626732
1101	0.01096	18.26375198	5.22505713	3.67809367	44.19380951	31.30244637
1102	0.01097	19.51605606	9.57128906	4.26741314	40.5105629	32.77574539
1103	0.01098	24.45160675	11.19191742	0.87882584	41.91019821	31.67077065
1104	0.01099	29.75548172	11.78123665	-2.06777191	45.22512054	32.48108673
1105	0.011	30.93412209	12.59155178	-3.24641085	42.86784363	37.93229294
1106	0.01101	31.37611198	15.02249432	-0.81546783	38.15328598	41.68920135
1107	0.01102	30.71312714	14.21218014	2.20479465	37.7849617	40.43689728
1108	0.01103	31.96543121	13.54919529	3.89908838	42.94150543	36.67998886
1109	0.01104	33.73339081	18.19008636	0.36317122	43.75181961	36.97464752
1110	0.01105	36.82731628	28.94516754	-2.14143682	42.27652249	39.47925568
1111	0.01106	35.79600906	36.60632324	-1.3311224	41.96386383	40.87888718
1112	0.01107	34.83836365	36.67998886	-0.22614829	46.33009338	39.84757996
1113	0.01108	35.20668793	30.34480286	-2.65709138	48.76103592	41.91019821
1114	0.01109	37.56396484	25.70391083	-2.21510172	47.87705994	45.44611359
1115	0.0111	39.99491119	23.56762695	2.79411435	43.89915085	46.8457489
1116	0.01111	40.068573	25.04092598	7.95066023	41.83653259	43.67815781
1117	0.01112	33.43872833	25.1145916	12.22322655	40.14223862	42.64684677
1118	0.01113	24.30427742	22.97830772	17.23244286	38.44794464	43.08883667

	AI	AJ	AK	AL	AM	AN
1060	31.59710693	24.92447281	35.70727921	28.9126339	39.76929474	43.38818359
1061	27.76652908	22.11798859	35.48571396	30.83285904	40.36013412	41.5418129
1062	27.02988052	19.01608467	37.47979736	33.49163437	42.20650482	38.66147232
1063	27.54553413	18.27753639	42.79734421	33.04850388	40.43399048	34.96873093
1064	29.53448868	18.86837387	46.63779831	33.49163437	39.4000206	32.4576683
1065	29.23982811	17.53898621	42.79734421	34.82102203	44.42215347	34.0086174
1066	30.05014229	17.09585762	37.77521515	36.1504097	52.76774979	34.74716568
1067	30.78679276	17.02200317	36.74124908	35.63342667	50.18283081	34.52560043
1068	31.74443626	17.61284256	40.36013412	36.00270081	42.35421753	32.08839417
1069	32.33375549	16.2834549	40.43399048	38.36605453	40.28628159	30.24202156
1070	34.17538071	16.35730934	37.77521515	41.02482986	45.75154114	30.83285904
1071	33.73339081	17.02200317	35.11643982	40.28628159	47.37634659	35.70727921
1072	34.02804947	17.76055145	37.18437576	38.36605453	42.64963531	37.8490715
1073	33.43872833	16.13574409	39.54773331	36.07655334	39.17845917	36.96281052
1074	33.29140091	12.3691473	41.76337814	30.83285904	41.76337814	33.63934326
1075	33.14406967	8.75026035	41.32024765	27.14011765	43.83131409	34.0086174
1076	34.17538071	10.4489212	40.65555573	31.49755287	43.2404747	34.67331314
1077	32.55474854	15.10177708	40.21242523	39.25231171	42.50192642	36.44582748
1078	31.08145142	16.94814873	39.84315109	41.83723068	43.83131409	36.1504097
1079	31.52344131	14.65864754	38.21834564	39.10460281	43.46203995	34.89487839
1080	35.05935669	15.24948692	39.10460281	38.73532867	42.94505692	32.1622467
1081	34.83836365	18.20368004	40.43399048	42.64963531	43.97902298	33.78705215
1082	35.13302231	20.34547043	41.0986824	46.85936356	48.55802536	37.11052322
1083	33.73339081	19.45921326	39.6954422	45.89925003	54.68797684	40.72940826
1084	32.62841415	21.15787506	39.17845917	42.35421753	59.41468811	42.64963531
1085	30.71312714	23.15195465	37.70136261	40.72940826	57.49446106	43.38818359
1086	32.40742111	24.48134232	36.59353638	42.28036118	55.20495987	42.35421753
1087	34.32270813	24.92447281	34.23018265	43.97902298	55.20495987	42.94505692
1088	37.19564056	26.32771492	32.53152084	42.35421753	56.09121704	45.89925003
1089	37.26930618	26.40156937	29.79889107	39.6954422	52.02920151	48.55802536
1090	35.28035355	26.99240685	29.06034279	39.6954422	47.59791183	47.08092499
1091	32.18642426	26.69698906	27.87866592	40.43399048	43.90516663	45.01298904
1092	35.05935669	25.88458443	27.95252037	39.32616806	41.17253876	43.2404747
1093	38.37427902	25.36760139	27.14011765	37.18437576	39.25231171	44.42215347
1094	37.85862732	26.84469795	28.98648834	36.96281052	42.64963531	44.56986237
1095	32.99673843	27.36168289	32.1622467	36.88895798	45.0868454	42.79734421
1096	32.84941101	26.62313271	33.56549072	34.67331314	43.97902298	38.14448929
1097	37.04831314	27.50939178	27.43553734	32.1622467	43.46203995	37.40594101
1098	41.61553955	28.9126339	21.82256889	32.4576683	49.00115204	39.4000206
1099	39.92124557	28.54335976	22.78268051	34.23018265	57.5683136	41.5418129
1100	37.19564056	28.9126339	25.66302109	36.44582748	61.99960709	39.32616806
1101	34.54370499	30.75900459	24.70290756	36.59353638	59.78396225	37.47979736
1102	34.91202927	34.96873093	26.40156937	35.8549881	56.38663864	36.74124908
1103	32.99673843	35.19029617	30.53744125	35.04258728	54.76182938	38.80918503
1104	31.08145142	34.82102203	31.71911812	35.11643982	53.94942856	41.46795654
1105	30.49213219	35.92884445	30.38973045	33.78705215	51.36450958	44.20058823
1106	33.73339081	37.92292404	30.83285904	33.19621658	48.26260376	45.75154114
1107	34.98569489	33.71319962	29.65118217	33.34392548	44.71757126	47.45019913
1108	37.26930618	28.02637482	27.73095703	35.11643982	44.6437149	50.92137909
1109	39.1845932	25.95843887	26.18000412	35.92884445	44.71757126	56.68205643
1110	42.13119125	30.38973045	27.21397209	36.88895798	44.71757126	59.11926651
1111	42.42585373	35.19029617	29.06034279	39.17845917	42.94505692	59.04541016
1112	42.13119125	37.9967804	31.42369843	43.31433105	43.01890945	59.11926651
1113	40.80522537	34.96873093	30.83285904	45.97310257	44.12673187	63.18128204
1114	40.5105629	31.49755287	30.38973045	45.89925003	47.00707245	65.76620483
1115	38.37427902	28.9126339	28.9126339	43.83131409	49.88740921	65.17536163
1116	35.50134659	27.65710068	29.87274742	42.64963531	51.95534515	58.01144409
1117	33.36506653	25.81072998	28.764925	44.12673187	50.55210495	49.96126556
1118	35.94333649	24.33363342	25.88458443	41.76337814	48.11489487	47.00707245

	AO	AP	AQ	AR	AS	AT
1060	54.90954208	318.8222046	130.1441498	17.67443275	46.403759	29.84812927
1061	54.24484634	318.1592102	135.6094055	17.40432739	44.78313065	29.47885323
1062	49.59199142	320.5901794	139.8191376	19.2950592	42.99061584	29.99583817
1063	44.12673187	323.9050903	143.1426086	20.71924973	42.49951935	31.37446213
1064	45.97310257	323.242096	141.2962341	21.13668442	44.5375824	32.99926758
1065	49.07500839	324.273407	137.45578	19.44239044	44.43936157	31.71911812
1066	51.36450958	329.577301	133.5414734	18.95129204	40.70700455	30.34049416
1067	49.44428253	335.7651367	131.3258209	18.21464157	35.62412262	29.79889297
1068	46.04695892	333.1868591	130.0702972	18.63207626	34.64192581	31.32522583
1069	41.98494339	323.3157654	130.5872803	19.12317657	37.29386139	31.69449997
1070	40.43399048	319.9271851	132.1382294	20.67013931	39.77391434	31.71911812
1071	40.13856888	324.5680847	135.535553	19.6879406	39.84757996	30.80824089
1072	43.68360519	324.7890625	136.569519	17.94453621	39.38103485	31.10366058
1073	47.00707245	321.547821	142.1824951	16.02924919	39.13548279	30.58667755
1074	49.22271729	315.8756104	146.6137848	15.21893501	38.91448975	28.32179451
1075	49.88740921	314.9916382	148.6078644	15.26804447	38.7426033	25.73687553
1076	50.62595749	314.623291	147.6477509	18.04275703	38.81626892	27.53400993
1077	50.03512192	314.5496521	149.715683	19.17228699	38.6934967	31.52217102
1078	51.80763626	311.0874023	154.0731201	17.62532234	38.81626892	32.87617493
1079	53.58015442	307.3304749	159.0213928	15.1698246	39.47925568	30.660532
1080	54.54026794	308.0671387	163.7481079	17.28155327	40.33868027	31.02980614
1081	51.95534515	312.4133606	167.7362671	20.79291534	39.70024872	33.76243591
1082	51.58607101	314.2549744	167.4408417	21.75055885	39.28281403	36.1011734
1083	51.73378372	313.6656494	166.2591705	17.99364662	39.1109314	35.01796722
1084	52.62004089	310.3507385	166.9238586	15.36626434	38.76715851	34.23018265
1085	49.22271729	308.3617859	171.8721466	14.94882965	36.67998886	33.86090851
1086	42.64963531	306.7411499	174.9740448	15.36626434	35.96789169	34.45174789
1087	36.00270081	309.0984497	175.1217499	13.96663094	36.63087845	34.37789154
1088	41.02482986	313.2236633	171.2074432	13.42642021	38.3006134	33.73781586
1089	49.81355667	316.9069214	166.9977264	13.03354073	38.52161026	31.96530151
1090	50.92137909	318.895874	165.1513519	14.11396027	37.51485443	31.91606331
1091	43.60974884	320.0008545	163.895813	14.53139496	35.62412262	31.66988182
1092	40.36013412	319.6325073	161.2370453	14.50683975	35.79600525	31.05442429
1093	40.43399048	320.4428406	160.7200623	12.86165619	36.70454025	29.89736557
1094	39.84315109	320.3691711	162.1971588	11.43746758	37.26930618	30.93133163
1095	39.6954422	322.0634766	165.5206299	9.39940357	35.89422607	32.13763046
1096	43.31433105	323.8314209	163.1572723	6.52647114	35.25579834	31.62064552
1097	45.89925003	327.3673401	161.2370453	4.0709734	36.53265762	29.03572464
1098	47.89332962	325.4520569	160.6462097	4.73395777	37.22019577	27.73095703
1099	48.85344315	320.2955017	159.3906708	6.67380142	36.95009232	28.51874161
1100	50.40439606	316.833252	154.8855286	8.41720486	37.29386139	30.34049416
1101	51.21679688	317.7908936	151.63591	9.0556345	36.67998505	30.68515015
1102	54.3187027	319.2641907	154.1469727	11.11825275	36.06611252	32.40842819
1103	55.57423401	320.0008545	160.0553589	12.17411709	35.52590179	33.59010696
1104	55.05725098	319.4115295	162.1233063	13.1563158	36.26255417	33.88552856
1105	53.13702393	320.7374878	161.606308	13.42642117	37.09742355	33.36854172
1106	56.16507339	320.6638184	159.3168182	15.19437981	37.85862732	33.98400116
1107	58.23300934	320.0008545	160.2030792	15.71003437	37.73585129	32.23610306
1108	59.48854065	318.8222046	162.2710114	16.47123909	38.96360016	30.29125786
1109	55.94350815	319.4115295	162.5664215	17.4288826	39.97035217	29.35576248
1110	52.54618454	323.3894348	160.0553589	21.21034813	41.29632187	31.49755287
1111	51.14294434	327.6619873	158.2828522	23.69040298	41.76286697	34.47636414
1112	53.28473282	327.956665	160.6462097	23.7640686	42.7696228	37.57826996
1113	53.43244171	322.8001099	162.2710114	20.96479988	43.82548523	37.25823212
1114	50.55210495	317.0542603	160.3507843	20.35092545	44.6112442	35.92884445
1115	47.08092499	317.0542603	158.8736877	22.11888504	43.03972626	33.88552856
1116	49.66584778	320.5901794	157.6920013	24.35338593	40.33868027	33.39316177
1117	55.05725098	327.6619873	157.6920013	23.59218216	38.71805191	32.90079498
1118	59.19312286	333.2605286	155.4025116	21.5050087	39.16003799	30.660532

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1060	46.02233887
1061	45.38226318
1062	43.48665619
1063	39.84315109
1064	39.27693176
1065	42.50192642
1066	46.29314041
1067	44.71757126
1068	40.16318893
1069	37.50441742
1070	39.00613022
1071	41.07406616
1072	41.394104
1073	41.04944611
1074	41.5418129
1075	42.57577896
1076	42.84658051
1077	42.99429321
1078	43.92978668
1079	43.97902298
1080	43.21585846
1081	43.2404747
1082	45.75154114
1083	49.05038834
1084	51.56145477
1085	50.03512192
1086	46.7362709
1087	44.71757126
1088	47.67176437
1089	50.13359451
1090	48.5334053
1091	44.17596817
1092	41.59104919
1093	41.36948395
1094	42.35421753
1095	42.52654266
1096	41.81261444
1097	42.25574493
1098	45.43149948
1099	49.32118988
1100	50.57672501
1101	49.49351883
1102	49.14886475
1103	49.71508408
1104	50.15821075
1105	49.56737518
1106	50.05973816
1107	50.13359451
1108	51.68454361
1109	52.44771194
1110	52.1276741
1111	51.04447174
1112	51.80763626
1113	53.5801506
1114	54.44179535
1115	54.04789734
1116	53.21088028
1117	51.85687256
1118	51.43836212

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1119								.006130	33.44	25.81	25.11	28.76	12.22	44.13
1120								.006140	24.30	24.33	22.98	25.88	17.23	41.76
1121								.006150	17.67	21.45	15.69	23.60	22.54	36.74
1122								.006160	17.82	20.20	9.50	23.89	21.21	33.71
1123								.006170	20.40	19.61	6.33	22.93	11.85	35.93
1124								.006180	25.34	22.71	6.48	21.53	2.13	39.99
1125								.006190	28.43	24.19	4.34	23.45	-1.40	41.62
1126								.006200	30.42	23.89	1.91	28.03	-.37	41.02
1127								.006210	28.50	20.05	2.35	29.73	.51	41.17
1128								.006220	26.29	17.54	8.32	29.65	-.74	42.80
1129								.006230	23.71	15.54	11.49	27.07	-1.92	42.95
1130								.006240	24.16	16.95	5.89	25.66	-1.85	39.92
1131								.006250	27.40	18.57	-4.87	24.63	-3.54	34.38
1132								.006260	33.44	21.82	-6.78	26.55	-8.03	31.05
1133								.006270	34.25	20.94	.29	28.25	-11.35	31.50
1134								.006280	29.90	19.31	7.36	28.62	-10.02	35.26
1135								.006290	23.20	16.73	8.98	23.60	-8.55	35.26
1136								.006300	22.83	16.43	13.99	19.75	-9.14	29.95
1137								.006310	22.54	17.10	21.06	19.90	-11.50	24.63
1138								.006320	19.00	19.02	24.01	27.73	-13.34	26.33
1139								.006330	16.79	22.12	17.97	34.16	-13.71	31.79
1140								.006340	20.77	25.37	12.67	35.26	-13.34	36.22
1141								.006350	23.27	25.07	11.56	32.31	-10.17	36.59
1142								.006360	20.33	23.60	14.88	32.09	-6.78	33.27
1143								.006370	17.09	21.45	15.98	31.57	-5.31	29.21
1144								.006380	20.62	21.38	15.61	31.28	-8.11	27.88
1145								.006390	25.34	22.12	12.96	30.69	-9.73	31.13
1146								.006400	26.51	25.96	10.82	30.32	-10.39	32.83
1147								.006410	20.99	29.43	9.13	27.29	-11.13	30.83
1148								.006420	17.16	30.32	9.20	23.00	-12.45	27.58
1149								.006430	15.91	26.33	10.31	19.16	-12.53	26.84
1150								.006440	18.34	24.48	12.67	18.57	-12.53	28.62
1151								.006450	19.15	23.82	14.73	19.16	-14.30	30.32
1152								.006460	21.51	24.26	16.35	21.97	-17.24	31.35
1153								.006470	22.39	22.71	14.58	24.33	-18.42	30.61
1154								.006480	20.47	20.27	11.04	23.82	-15.11	28.40
1155								.006490	15.46	16.14	7.51	19.90	-10.17	27.36
1156								.006500	12.08	14.81	8.69	21.67	-5.53	29.95
1157								.006510	9.64	14.58	11.04	28.32	-3.17	31.87
1158								.006520	9.87	16.36	12.00	32.83	-3.91	31.42
1159								.006530	13.18	18.35	8.54	30.02	-7.00	30.39
1160								.006540	18.04	19.61	6.48	25.96	-10.69	31.57
1161								.006550	18.41	17.91	7.51	25.59	-14.15	32.61
1162								.006560	16.79	17.32	8.54	27.44	-14.44	32.24
1163								.006570	14.36	15.91	.88	24.26	-11.05	33.34
1164								.006580	15.02	15.47	-6.49	18.79	-8.70	35.56
1165								.006590	14.80	14.73	-1.33	15.84	-9.14	33.64
1166								.006600	12.74	13.77	11.56	15.91	-12.90	28.76
1167								.006610	9.13	10.74	14.21	14.14	-14.89	25.81
1168								.006620	8.83	8.53	8.02	15.54	-12.23	24.92
1169								.006630	11.04	9.49	3.09	19.39	-7.08	24.56
1170								.006640	14.43	12.52	5.15	22.27	-5.90	26.18
1171								.006650	15.10	11.93	8.02	19.02	-7.37	28.99
1172								.006660	14.73	11.11	10.90	14.66	-8.03	31.42
1173								.006670	15.10	11.70	10.38	11.41	-6.05	32.01
1174								.006680	18.56	10.45	7.44	7.72	-6.27	29.50
1175								.006690	20.69	5.28	5.37	4.39	-10.24	25.96
1176								.006700	22.46	8.31	10.01	7.79	-12.16	24.70
1177								.006710	23.49	18.57	15.02	12.07	-10.54	25.22

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1119	40.14	50.55	42.65	49.96	33.37	55.06	.006130	327.66	157.69	23.59	32.90	38.72	51.86	
1120	38.45	48.11	43.09	47.01	35.94	59.19	.006140	333.26	155.40	21.51	30.66	39.16	51.44	
1121	38.01	47.67	43.16	53.88	38.30	58.75	.006150	336.58	153.11	18.63	27.26	39.82	53.43	
1122	40.58	49.81	40.95	60.08	37.71	58.16	.006160	337.09	151.05	16.18	25.93	39.75	56.02	
1123	41.69	51.00	41.98	61.63	34.76	58.01	.006170	335.77	150.31	12.86	26.16	39.48	56.88	
1124	40.29	49.89	42.13	56.53	33.37	59.93	.006180	332.01	150.38	11.31	28.08	38.60	55.45	
1125	40.51	48.56	41.39	50.04	31.67	58.60	.006190	326.34	150.38	10.46	29.75	37.86	52.40	
1126	44.78	47.08	39.85	43.91	31.30	56.39	.006200	320.30	150.90	10.65	30.98	38.64	49.12	
1127	45.67	44.72	41.62	43.39	29.61	51.96	.006210	319.34	151.78	10.46	30.32	38.96	46.69	
1128	41.84	42.95	43.75	45.01	30.12	48.85	.006220	320.96	151.93	11.29	30.00	38.57	45.60	
1129	38.89	41.39	45.52	44.05	29.31	45.31	.006230	322.65	151.56	11.09	28.52	37.91	43.59	
1130	41.17	41.25	44.78	39.40	28.72	44.72	.006240	321.18	149.42	9.40	27.51	38.23	41.79	
1131	41.54	39.55	43.68	37.33	27.10	43.63	.006250	317.57	147.35	6.33	25.86	37.44	40.24	
1132	38.67	36.00	42.50	36.22	27.47	44.50	.006260	313.81	146.32	6.21	26.48	36.21	38.91	
1133	35.58	27.95	41.54	34.53	26.96	44.35	.006270	312.86	144.25	7.73	26.89	34.69	35.61	
1134	36.83	24.33	39.18	30.54	27.55	45.75	.006280	317.05	141.22	9.08	27.73	34.52	33.54	
1135	37.56	29.36	40.51	28.17	28.50	45.90	.006290	322.21	137.53	7.88	25.20	35.53	34.48	
1136	38.30	37.33	41.62	27.36	30.57	46.49	.006300	322.43	132.29	9.23	22.04	36.83	37.06	
1137	36.16	34.08	39.33	31.28	29.68	46.27	.006310	319.41	127.26	10.70	20.54	35.06	37.21	
1138	33.66	27.88	35.50	39.10	27.99	47.08	.006320	317.35	124.16	9.89	24.36	32.38	38.02	
1139	30.93	27.95	36.53	44.27	29.02	49.37	.006330	319.12	126.82	7.02	29.36	32.16	40.53	
1140	32.11	32.90	40.66	41.02	31.82	54.02	.006340	320.30	128.00	6.70	32.29	34.86	42.65	
1141	34.54	35.34	45.08	37.48	30.64	57.35	.006350	323.17	128.30	8.22	31.33	36.75	43.39	
1142	35.80	37.70	42.72	38.22	28.13	57.72	.006360	326.85	128.67	9.47	29.65	35.55	44.55	
1143	34.03	40.43	39.04	45.75	25.63	56.09	.006370	328.62	128.81	9.25	27.41	32.90	47.43	
1144	35.65	41.69	37.56	51.51	27.18	55.35	.006380	327.00	127.04	9.37	26.84	33.46	49.52	
1145	42.28	39.55	39.26	53.51	29.90	55.06	.006390	323.61	124.31	9.52	27.98	37.15	49.37	
1146	47.14	37.48	36.53	51.29	33.29	53.73	.006400	322.95	121.95	8.98	29.70	38.99	47.50	
1147	42.87	35.93	33.00	49.44	33.59	50.33	.006410	325.60	121.50	6.33	29.18	36.48	45.23	
1148	35.80	33.05	31.82	47.52	34.47	50.11	.006420	326.34	119.44	4.64	26.97	34.03	43.56	
1149	34.62	28.25	36.09	48.04	33.88	50.55	.006430	327.07	117.37	4.56	24.11	34.86	42.28	
1150	37.12	25.22	38.37	48.19	33.81	49.67	.006440	325.67	113.90	6.16	23.89	36.43	41.02	
1151	38.01	25.07	40.44	50.92	32.85	43.98	.006450	323.24	108.65	6.53	24.43	37.10	39.99	
1152	38.08	25.22	41.03	52.55	37.56	42.35	.006460	322.28	102.74	6.87	25.86	38.89	40.04	
1153	37.05	23.00	40.14	52.99	43.97	45.09	.006470	325.16	98.61	6.18	25.88	40.39	40.36	
1154	37.27	22.93	38.30	51.22	49.94	48.78	.006480	333.48	101.12	5.47	24.16	41.84	40.98	
1155	36.09	25.37	39.04	49.15	49.87	45.60	.006490	339.15	105.48	4.27	21.13	41.66	40.04	
1156	35.65	29.21	41.32	46.12	46.55	40.73	.006500	337.16	105.55	5.08	22.14	41.17	38.69	
1157	34.54	28.84	42.72	44.05	38.23	37.55	.006510	331.79	99.49	5.84	24.92	38.50	36.82	
1158	33.44	28.17	38.89	40.29	33.37	39.77	.006520	330.17	92.70	5.99	26.87	35.23	36.08	
1159	30.34	27.88	33.88	36.59	34.54	42.65	.006530	333.33	90.19	4.91	26.25	32.92	35.71	
1160	30.71	29.36	30.71	32.46	38.15	44.27	.006540	334.81	91.37	4.61	25.71	33.19	35.36	
1161	31.16	28.47	34.25	30.24	37.42	43.54	.006550	333.41	94.84	3.92	25.37	34.27	34.08	
1162	32.26	30.46	37.42	26.70	37.27	41.62	.006560	328.84	94.62	3.63	25.66	35.65	32.93	
1163	31.38	32.75	37.34	24.92	38.45	37.70	.006570	326.04	90.63	1.39	24.51	35.72	31.79	
1164	30.34	30.39	37.27	24.33	38.60	34.97	.006580	327.22	86.50	-.05	23.28	35.40	29.90	
1165	29.17	25.37	39.26	24.92	37.27	34.82	.006590	332.89	87.09	1.44	21.40	35.23	28.37	
1166	30.05	26.62	37.34	22.12	37.56	34.08	.006600	338.86	90.63	3.80	19.48	34.99	27.61	
1167	30.64	32.46	36.97	23.15	36.97	27.73	.006610	341.58	91.22	2.82	16.90	34.86	27.78	
1168	29.46	33.64	38.01	25.37	35.50	22.86	.006620	340.48	86.57	1.54	16.33	34.32	27.29	
1169	27.69	27.80	37.93	26.70	35.13	25.96	.006630	338.20	79.78	2.35	17.81	33.59	26.82	
1170	27.25	22.12	30.93	23.89	36.53	31.57	.006640	335.03	73.05	4.56	20.32	31.57	25.86	
1171	30.12	20.79	25.78	23.15	34.18	30.98	.006650	336.43	73.05	5.25	19.98	30.03	24.97	
1172	34.54	21.75	24.45	24.92	34.32	28.91	.006660	340.63	77.19	5.86	19.07	31.11	25.20	
1173	32.63	19.39	26.22	26.55	36.75	26.77	.006670	344.02	80.74	6.48	18.38	31.87	24.24	
1174	28.58	16.51	26.81	23.30	39.18	24.78	.006680	346.81	80.44	6.58	15.89	31.52	21.53	
1175	27.10	14.22	28.06	18.28	36.46	19.16	.006690	347.11	75.42	5.27	11.88	30.54	17.22	
1176	30.86	13.11	27.10	13.55	35.50	16.51	.006700	345.64	71.72	6.77	13.60	31.16	14.39	
1177	33.07	10.01	25.63	15.84	36.16	16.73	.006710	343.57	70.91	9.33	18.62	31.62	14.19	

	AC	AD	AE	AF	AG	AH
1119	0.01114	17.67443275	15.68547916	22.53631783	38.00595474	43.16250229
1120	0.01115	17.82176208	9.49762344	21.21035004	40.58422852	40.9525528
1121	0.01116	20.40003586	6.33003139	11.85490227	41.68920135	41.98386383
1122	0.01117	25.33558655	6.4773612	2.13112974	40.28956985	42.13119125
1123	0.01118	28.42951393	4.3410778	-1.4047873	40.5105629	41.39454269
1124	0.01119	30.41846657	1.91013503	-0.37347817	44.78313065	39.84757996
1125	0.0112	28.50317955	2.35212469	0.51050109	45.66711044	41.61553955
1126	0.01121	26.29323006	8.31898499	-0.74180287	41.83653259	43.75181961
1127	0.01122	23.71495819	11.48657703	-1.92044199	38.88993454	45.51977921
1128	0.01123	24.15694809	5.88804197	-1.84677696	41.17354965	44.78313065
1129	0.01124	27.3982048	-4.86703968	-3.5410707	41.54187393	43.67815781
1130	0.01125	33.43872833	-6.78232813	-8.03463173	38.6689415	42.49951553
1131	0.01126	34.24904251	0.28950629	-11.34955406	35.57501221	41.54187393
1132	0.01127	29.90281296	7.36134052	-10.02358532	36.82731628	39.1845932
1133	0.01128	23.19930267	8.98196888	-8.55028629	37.56396484	40.5105629
1134	0.01129	22.83097839	13.99118519	-9.13960648	38.30061722	41.61553955
1135	0.0113	22.53631783	21.0630188	-11.49688435	36.16433334	39.33192444
1136	0.01131	19.00040054	24.00961685	-13.33850765	33.65972519	35.50134659
1137	0.01132	16.79045296	17.96909142	-13.70683289	30.93412209	36.53265762
1138	0.01133	20.76836014	12.66521645	-13.33850765	32.11276245	40.65789413
1139	0.01134	23.27296829	11.56024265	-10.1709156	34.54370499	45.07776931
1140	0.01135	20.32637024	14.87516499	-6.78232813	35.79600906	42.72051239
1141	0.01136	17.08511353	15.98013878	-5.3090291	34.02804947	39.03726578
1142	0.01137	20.62103081	15.61181355	-8.10829735	35.64867783	37.56396484
1143	0.01138	25.33558655	12.95987606	-9.7289257	42.27852249	39.25825882
1144	0.01139	26.51422501	10.82359314	-10.39191055	47.14040756	36.53265762
1145	0.0114	20.98935509	9.12929916	-11.12855911	42.86784363	32.99673843
1146	0.01141	17.15877724	9.20296383	-12.45452881	35.79600906	31.81810188
1147	0.01142	15.90647411	10.30793858	-12.52819347	34.61737061	36.09066772
1148	0.01143	18.3374176	12.66521645	-12.52819347	37.12197495	38.37427902
1149	0.01144	19.14773178	14.7278347	-14.29615211	38.00595474	40.43689728
1150	0.01145	21.5050087	16.34846306	-17.24275017	38.07962036	41.02621841
1151	0.01146	22.38898849	14.58050442	-18.42138863	37.04631314	40.14223862
1152	0.01147	20.47369957	11.04458809	-15.10646629	37.26930618	38.30061722
1153	0.01148	15.46448421	7.50867033	-10.1709156	36.09066772	39.03726578
1154	0.01149	12.07589722	8.68730927	-5.53002405	35.64867783	41.32087708
1155	0.0115	9.64495373	11.04458809	-3.17274594	34.54370499	42.72051239
1156	0.01151	9.86594868	12.0022316	-3.90939546	33.43872833	38.88993454
1157	0.01152	13.18087101	8.53997993	-7.00332308	30.34480286	33.88071823
1158	0.01153	18.04275703	6.4773612	-10.68657017	30.71312714	30.71312714
1159	0.01154	18.41108131	7.50867033	-14.14682183	31.15511703	34.24904251
1160	0.01155	16.79045296	8.53997993	-14.44348145	32.26008987	37.41663742
1161	0.01156	14.35951042	0.87882584	-11.05489445	31.37611198	37.3429718
1162	0.01157	15.02249432	-6.48766804	-8.69761658	30.34480286	37.26930618
1163	0.01158	14.80149937	-1.3311224	-9.13960648	29.16616249	39.25825882
1164	0.01159	12.73888111	11.56024265	-12.89651775	30.05014229	37.3429718
1165	0.0116	9.12929916	14.21218014	-14.88547134	30.63946152	36.97464752
1166	0.01161	8.83463955	8.02432537	-12.23353386	29.46082306	38.00595474
1167	0.01162	11.04458809	3.08877397	-7.07698774	27.69286346	37.93229294
1168	0.01163	14.43317509	5.15139246	-5.89834881	27.25087547	30.93412209
1169	0.01164	15.09615898	8.02432537	-7.37164736	30.12380791	25.77757645
1170	0.01165	14.7278347	10.8972578	-8.03463173	34.54370499	24.45160675
1171	0.01166	15.09615898	10.38160324	-6.04567862	32.62841415	26.21956635
1172	0.01167	18.55841255	7.43500566	-6.26667356	28.57684326	26.80886557
1173	0.01168	20.69469452	5.37238741	-10.24458027	27.10354424	28.06118965
1174	0.01169	22.46265411	10.01327896	-12.15986919	30.86045647	27.10354424
1175	0.0117	23.49396324	15.02249432	-10.53923988	33.07040405	25.63024521
1176	0.01171	25.85124016	15.68547916	-8.84494591	33.07040405	25.04092598
1177	0.01172	24.6726017	13.47553062	-8.69761658	31.22878075	26.29323006

	AI	AJ	AK	AL	AM	AN
1119	38.30061722	21.45329475	23.59508514	36.74124908	47.67176437	53.8755722
1120	37.71129608	20.19776154	23.89050484	33.71319962	49.81355667	60.07938004
1121	34.76469803	19.60692215	22.93039131	35.92884445	50.99523544	61.63033295
1122	33.36506653	22.70882607	21.5271492	39.99085999	49.88740921	56.53434753
1123	31.67077065	24.18592262	23.44737434	41.61566925	48.55802536	50.03512192
1124	31.30244637	23.89050484	28.02637482	41.02482986	47.08092499	43.90516663
1125	29.60815239	20.05005264	29.72503662	41.17253876	44.71757126	43.38818359
1126	30.12380791	17.53898621	29.65118217	42.79734421	42.94505692	45.01298904
1127	29.31349373	15.54490662	27.0662632	42.94505692	41.394104	44.05287933
1128	28.72417259	16.94814873	25.66302109	39.91700745	41.24639511	39.4000206
1129	27.10354424	18.57295418	24.62905312	34.37789154	39.54773331	37.33208466
1130	27.47187042	21.82256889	26.54927826	31.05442429	36.00270081	36.22426224
1131	26.9562149	20.93630981	28.24794006	31.49755287	27.95252037	34.52560043
1132	27.54553413	19.31150436	28.6172142	35.26415253	24.33363342	30.53744125
1133	28.50317955	16.72658348	23.59508514	35.26415253	29.35576248	28.17408562
1134	30.56579781	16.43116379	19.75463295	29.94660187	37.33208466	27.36168289
1135	29.68181801	17.09585762	19.90234184	24.62905312	34.08247375	31.27598953
1136	27.98752403	19.01608467	27.73095703	26.32771492	27.87866592	39.10460281
1137	29.01883316	22.11798859	34.15632629	31.79297256	27.95252037	44.27444077
1138	31.81810188	25.36760139	35.26415253	36.22426224	32.90079498	41.02482986
1139	30.63946152	25.0721817	32.3099556	36.59353638	35.33800507	37.47979736
1140	28.13485336	23.59508514	32.08839417	33.27006912	37.70136261	38.21834564
1141	25.63024521	21.45329475	31.57140923	29.20805359	40.43399048	45.75154114
1142	27.17720985	21.3794384	31.27598953	27.87866592	41.68952179	51.51221848
1143	29.90281296	22.11798859	30.68515015	31.12827873	39.54773331	53.50629807
1144	33.29140091	25.95843887	30.31587601	32.82694244	37.47979736	51.29065323
1145	33.58605957	29.42961693	27.28782654	30.83285904	35.92884445	49.44428253
1146	34.47003937	30.31587601	23.00424576	27.58324623	33.04850388	47.52405548
1147	33.88071823	26.32771492	19.16379356	26.84469795	28.24794006	48.04103851
1148	33.80705261	24.48134232	18.57295418	28.6172142	25.21989059	48.18874741
1149	32.84941101	23.81664848	19.16379356	30.31587601	25.0721817	50.92137909
1150	37.56396484	24.25977898	21.97027779	31.34984398	25.21989059	52.54618454
1151	43.97281647	22.70882607	24.33363342	30.6112957	23.00424576	52.98931503
1152	49.93967819	20.27161598	23.81664848	28.39564896	22.93039131	51.21679688
1153	49.86601257	16.13574409	19.90234184	27.36168289	25.36760139	49.14886093
1154	46.55109024	14.80635738	21.67485809	29.94660187	29.20805359	46.12081528
1155	38.2269516	14.58479309	28.32179451	31.86682701	28.83877945	44.05287933
1156	33.36506653	16.35730934	32.82694244	31.42369843	28.17408562	40.28628159
1157	34.54370499	18.35139084	30.02045631	30.38973045	27.87866592	36.59353638
1158	38.15328598	19.60692215	25.95843887	31.57140923	29.35576248	32.4576683
1159	37.41663742	17.90826225	25.58916473	32.6053772	28.46950531	30.24202156
1160	37.26930618	17.31742287	27.43553734	32.23610306	30.4635849	26.69698906
1161	38.44794464	15.91418076	24.25977898	33.34392548	32.75308609	24.92447281
1162	38.59527588	15.47105122	18.79451942	35.55957031	30.38973045	24.33363342
1163	37.26930618	14.73250294	15.84032536	33.63934326	25.36760139	24.92447281
1164	37.56396484	13.77238941	15.91418076	28.764925	26.62313271	22.11798859
1165	36.97464752	10.7443409	14.14166355	25.81072998	32.4576683	23.15195465
1166	35.50134659	8.52869511	15.54490662	24.92447281	33.63934326	25.36760139
1167	35.13302231	9.48880863	19.38535881	24.55519676	27.80481148	26.69698906
1168	36.53265762	12.51685715	22.26569748	26.18000412	22.11798859	23.89050484
1169	34.17538071	11.92601871	19.01608467	28.98648834	20.78860092	23.15195465
1170	34.32270813	11.11361504	14.65864754	31.42369843	21.74871254	24.92447281
1171	36.75365067	11.70445442	11.40903473	32.01453781	19.38535881	26.54927826
1172	39.1845932	10.4489212	7.71629238	29.50347328	16.50501823	23.29966545
1173	36.458992	5.2790823	4.39282417	25.95843887	14.21551895	18.27753639
1174	35.50134659	8.30713081	7.79014683	24.70290756	13.10769653	13.55082512
1175	36.16433334	18.57295418	12.07372856	25.21989059	10.00579262	15.84032536
1176	37.26930618	25.21989059	13.77238941	25.51531029	7.86400175	21.3794384
1177	36.23799896	21.82256889	12.3691473	24.62905312	8.97182465	24.40748787

	AO	AP	AQ	AR	AS	AT
1119	58.74999237	336.57547	153.1130066	18.63207626	39.82302475	27.2632103
1120	58.15915298	337.0911255	151.0450745	16.17657852	39.74935913	25.93382263
1121	58.01144409	335.7651367	150.3065186	12.86165619	39.47925568	26.15538597
1122	59.93167114	332.0082398	150.3803711	11.3146925	38.59527588	28.07561111
1123	58.60228348	326.3360291	150.3803711	10.45526791	37.85862732	29.74965477
1124	56.38663864	320.2955017	150.8973694	10.65170765	38.64438629	30.98056984
1125	51.95534515	319.3378601	151.7836151	10.45526886	38.96360016	30.31587601
1126	48.85344315	320.9584961	151.9313355	11.29013729	38.57072067	29.99583817
1127	45.30841064	322.652771	151.5620575	11.09369755	37.90773773	28.51874161
1128	44.71757126	321.1794739	149.4202728	9.39940453	38.2269516	27.50939178
1129	43.83131409	317.5699158	147.3523254	6.33003139	37.44119263	25.85996628
1130	44.49600601	313.8129883	146.3183594	6.20725632	36.21344376	26.47542381
1131	44.34829712	312.8553467	144.2504273	7.7296648	34.69103241	26.89393425
1132	45.75154114	317.0542603	141.2223816	9.0801897	34.51914978	27.73095703
1133	45.89925003	322.2107849	137.5296326	7.87699509	35.52590179	25.19527435
1134	46.49008942	322.4317932	132.2859345	9.22751904	36.82731628	22.04413223
1135	46.26852417	319.4115295	127.2638092	10.70081711	35.05935669	20.54241753
1136	47.08092499	317.3489075	124.161911	9.89050293	32.38286591	24.35825157
1137	49.37042618	319.1168823	126.8206787	7.0175705	32.16187286	29.35576248
1138	54.0232811	320.2955017	128.0023651	6.69835615	34.86291885	32.28533936
1139	57.34675217	323.1684265	128.2977753	8.22076511	36.75365067	31.32522392
1140	57.71602631	326.8516846	128.6670532	9.47306919	35.550457	29.65118217
1141	56.09121704	328.6196594	128.8147583	9.25207424	32.89852142	27.41091919
1142	55.35266876	326.9990234	127.042244	9.37484932	33.46328354	26.84469795
1143	55.05725098	323.6104431	124.3096161	9.52217865	37.14653015	27.97713852
1144	53.72786331	322.9474487	121.9462585	8.98196888	38.98815536	29.70041847
1145	50.3305397	325.5993958	121.5031357	6.33003187	36.48354721	29.18343353
1146	50.10897446	326.3360291	119.4351959	4.63573742	34.02804947	26.9677887
1147	50.55210495	327.0726929	117.3672638	4.56207323	34.86291885	24.11206818
1148	49.66584778	325.6730347	113.89608	6.15814686	36.4344368	23.89050293
1149	43.97902298	323.242096	108.6523895	6.52647161	37.09741974	24.43210602
1150	42.35421753	322.2844544	102.7440033	6.87024069	38.88993454	25.85996628
1151	45.0868454	325.1573792	98.60813141	6.18270159	40.38779068	25.88458443
1152	48.77958679	333.4815369	101.119194	5.47060728	41.83653259	24.16130447
1153	45.60382843	339.153717	105.4766312	4.26741314	41.66464996	21.13325691
1154	40.72940826	337.1647644	105.5504837	5.07772732	41.17354965	22.14260483
1155	37.5536499	331.7872315	99.49438477	5.83893204	38.49705505	24.9244709
1156	39.76929474	330.1665955	92.69974518	5.98626137	35.23124313	26.8693161
1157	42.64963531	333.334198	90.18867493	4.90584278	32.92307663	26.25385857
1158	44.27444077	334.8074951	91.3703537	4.61118269	33.19318008	25.71225739
1159	43.53589249	333.4078674	94.84152985	3.92364335	34.27359772	25.36760139
1160	41.61566925	328.8406372	94.6199646	3.62898374	35.64867783	25.66302109
1161	37.70136261	326.0413818	90.63180542	1.39448059	35.72234344	24.50596237
1162	34.96873093	327.2200012	86.49593353	-0.05426343	35.40312958	23.2750473
1163	34.82102203	332.8922119	87.08677673	1.44359016	35.23124313	21.40405655
1164	34.08247375	338.8590698	90.63180542	3.80086875	34.98569489	19.48383141
1165	27.73095703	341.5846863	91.22264099	2.81866932	34.86291885	16.89891052
1166	22.85653687	340.4797058	86.56978607	1.54181039	34.32270813	16.33269119
1167	25.95843887	338.1960754	79.77514648	2.35212469	33.58605957	17.80978775
1168	31.57140923	335.0285034	73.05435181	4.56207275	31.57255173	20.32085228
1169	30.98056984	336.4281311	73.05435181	5.24961233	30.02558899	19.97619629
1170	28.9126339	340.6270447	77.19022369	5.86348677	31.10600662	19.06532097
1171	26.77084351	344.015625	80.73525238	6.4773612	31.86721039	18.37600899
1172	24.77676201	346.8148804	80.43983459	6.57558155	31.52344131	15.88956261
1173	19.16379356	347.1095581	75.41770935	5.27416706	30.5412426	11.87678146
1174	16.50501823	345.636261	71.72496796	6.77202129	31.15511513	13.60006142
1175	16.72658348	343.5736389	70.91255951	9.32573891	31.62166023	18.62219048
1176	19.60692215	344.8995972	73.34976959	10.8972578	31.79354477	21.50252914
1177	19.31150436	348.7301636	76.37782288	9.81683826	31.25333595	19.60692215

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1119	53.43244171
1120	56.0173645
1121	56.87900543
1122	55.45114136
1123	52.39847565
1124	49.12424469
1125	46.68703461
1126	45.60382843
1127	43.5851326
1128	41.78799438
1129	40.23704529
1130	38.90765762
1131	35.60880661
1132	33.54087067
1133	34.47636414
1134	37.06128693
1135	37.20899582
1136	38.02139664
1137	40.53246307
1138	42.64963531
1139	43.38818359
1140	44.54524612
1141	47.42558289
1142	49.51813507
1143	49.37042618
1144	47.49943924
1145	45.23455429
1146	43.56051254
1147	42.28036118
1148	41.02482986
1149	39.99085999
1150	40.04009628
1151	40.36013412
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1154	38.68609238
1155	36.81510162
1156	36.07655334
1157	35.70727921
1158	35.36262512
1159	34.08247375
1160	32.92541504
1161	31.79297447
1162	29.89736557
1163	28.37103271
1164	27.60786438
1165	27.78019333
1166	27.28782654
1167	26.8200798
1168	25.85996819
1169	24.97370911
1170	25.19527245
1171	24.23516083
1172	21.5271492
1173	17.21895027
1174	14.38784695
1175	14.1909008
1176	16.2834549
1177	17.56360626

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1178								.006720	25.65	25.22	15.69	13.77	-8.84	25.52
1179								.006730	24.67	21.82	13.48	12.37	-8.70	24.63
1180								.006740	22.09	19.16	15.39	15.62	-7.81	23.82
1181								.006750	21.51	22.56	18.41	20.86	-7.45	22.19
1182								.006760	25.34	27.44	20.33	23.82	-8.99	20.64
1183								.006770	28.65	27.66	16.27	18.87	-10.61	20.57
1184								.006780	29.02	25.22	11.78	14.14	-9.88	21.31
1185								.006790	26.37	23.08	8.69	13.18	-9.80	19.46
1186								.006800	27.40	24.63	9.87	16.73	-12.09	15.47
1187								.006810	32.63	26.99	10.90	16.95	-11.79	14.58
1188								.006820	40.95	28.03	14.58	15.69	-8.84	16.51
1189								.006830	43.90	25.59	17.97	14.73	-5.24	17.39
1190								.006840	41.91	20.42	19.15	13.40	-3.69	15.32
1191								.006850	38.89	14.36	14.58	7.35	-1.85	14.29
1192								.006860	43.02	16.43	10.75	5.87	-2.80	14.29
1193								.006870	54.29	21.16	11.49	10.38	-6.12	14.36
1194								.006880	68.06	24.19	17.67	13.11	-8.55	13.92
1195								.006890	69.09	23.00	22.68	10.23	-4.72	14.95
1196								.006900	58.04	21.60	25.34	9.49	-.89	15.84
1197								.006910	46.40	19.75	23.71	12.00	-.59	16.51
1198								.006920	44.71	20.79	21.06	15.47	-1.48	18.87
1199								.006930	43.31	22.12	20.33	14.29	-1.33	21.01
1200								.006940	40.36	24.33	21.95	12.37	-2.80	20.35
1201								.006950	39.33	24.11	22.32	11.19	-6.34	19.24
1202								.006960	43.83	23.37	24.16	11.93	-8.70	20.35
1203								.006970	43.90	22.86	28.65	12.07	-8.03	21.45
1204								.006980	37.34	23.15	33.51	13.55	-4.06	21.16
1205								.006990	31.82	21.67	31.67	14.14	-2.29	20.79
1206								.007000	38.15	20.79	25.48	12.96	-3.47	21.53
1207								.007010	49.20	22.04	19.30	8.23	-4.94	21.23
1208								.007020	55.63	26.55	18.85	4.76	-2.95	21.75
1209								.007030	52.15	26.99	20.40	5.65	2.20	22.86
1210								.007040	46.62	24.48	22.39	12.22	6.48	20.20
1211								.007050	45.37	20.64	22.09	15.32	7.07	19.31
1212								.007060	49.94	20.05	22.09	15.54	3.02	22.49
1213								.007070	47.36	20.79	22.32	15.54	-1.92	26.11
1214								.007080	38.52	22.78	23.13	19.31	-5.75	25.07
1215								.007090	31.52	22.56	22.54	22.27	-4.72	24.19
1216								.007100	28.87	23.74	21.51	23.00	-2.58	26.70
1217								.007110	25.11	22.71	19.07	21.53	-2.36	29.73
1218								.007120	26.22	21.67	18.26	20.94	-2.66	29.95
1219								.007130	29.53	18.87	19.30	19.68	.58	29.95
1220								.007140	32.19	20.27	20.47	19.31	5.15	30.61
1221								.007150	30.93	21.60	18.12	18.28	7.51	30.02
1222								.007160	31.08	22.12	18.26	17.24	5.67	27.29
1223								.007170	31.67	22.12	22.98	16.36	2.65	25.00
1224								.007180	29.02	23.45	27.10	18.28	1.47	26.84
1225								.007190	22.76	22.86	22.24	22.04	.14	31.05
1226								.007200	21.51	22.56	18.93	24.78	-2.95	33.20
1227								.007210	24.75	24.78	23.20	22.56	-4.43	32.97
1228								.007220	26.44	30.24	29.46	21.16	.14	33.71
1229								.007230	22.24	33.93	25.48	22.63	4.41	33.64
1230								.007240	17.38	34.30	16.94	24.78	3.75	32.01
1231								.007250	10.31	31.87	12.08	24.92	1.62	30.32
1232								.007260	2.79	29.95	15.32	26.40	4.34	30.09
1233								.007270	2.65	28.76	19.44	27.88	10.38	29.80
1234								.007280	19.07	29.73	19.37	27.29	12.67	29.73
1235								.007290	33.44	30.98	15.17	25.52	9.28	32.68
1236								.007300	31.52	32.31	12.52	27.73	5.45	34.67

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1178	33.07	7.86	25.04	21.38	37.27	19.61	.006720	344.90	73.35	10.90	21.50	31.79	16.28	
1179	31.23	8.97	26.29	24.41	36.24	19.31	.006730	348.73	76.38	9.82	19.61	31.25	17.56	
1180	31.82	14.58	25.26	21.53	34.91	16.36	.006740	349.39	75.57	9.89	19.53	30.66	17.49	
1181	33.22	17.24	24.23	19.16	32.63	11.26	.006750	349.10	71.87	10.82	21.87	30.03	15.89	
1182	34.62	15.91	22.68	19.02	33.14	10.30	.006760	348.95	67.59	12.22	23.96	30.15	15.08	
1183	33.29	11.48	23.57	21.90	35.58	10.52	.006770	346.37	65.82	11.44	22.36	30.81	14.63	
1184	32.41	11.48	25.85	23.45	38.08	10.08	.006780	340.85	67.22	10.31	20.22	32.11	15.00	
1185	31.89	16.14	30.12	23.37	39.48	8.16	.006790	340.63	69.51	8.42	18.57	33.83	15.89	
1186	33.88	21.53	31.89	18.50	38.96	4.84	.006800	348.14	68.77	8.39	18.94	34.91	14.95	
1187	35.28	21.82	33.44	15.18	34.69	77	.006810	353.15	64.27	10.58	19.51	34.47	12.59	
1188	37.78	20.79	32.92	14.22	33.00	1.44	.006820	347.55	60.28	15.56	20.07	34.57	12.15	
1189	40.36	22.27	31.23	14.88	34.25	3.14	.006830	338.71	59.39	18.88	19.24	35.28	13.43	
1190	40.95	24.48	26.66	11.70	34.91	1.73	.006840	337.46	60.13	19.12	16.38	34.16	12.64	
1191	37.71	21.75	26.59	8.09	30.57	-2.99	.006850	341.81	61.09	17.21	12.00	31.62	8.95	
1192	34.84	18.57	30.42	6.46	28.06	-2.55	.006860	341.66	62.12	16.99	12.20	31.11	7.49	
1193	35.50	20.35	36.75	7.94	27.91	2.77	.006870	339.01	65.23	19.88	15.30	33.39	10.35	
1194	36.68	24.92	39.33	8.97	30.79	8.31	.006880	339.23	70.40	25.73	17.07	35.60	14.07	
1195	33.59	25.74	39.04	9.56	32.41	6.61	.006890	341.36	74.09	29.02	16.06	35.01	13.97	
1196	30.93	26.48	34.18	7.86	33.07	4.17	.006900	343.57	74.83	27.50	15.64	32.73	12.84	
1197	29.90	27.14	30.64	7.49	33.73	4.25	.006910	341.81	70.62	23.17	16.09	31.43	12.96	
1198	30.93	27.73	30.05	6.90	37.71	7.94	.006920	340.33	68.33	21.43	18.38	32.90	14.19	
1199	30.64	26.11	31.52	6.68	38.23	7.49	.006930	339.89	70.47	20.77	19.14	33.46	13.43	
1200	31.67	29.06	31.89	5.65	35.06	4.84	.006940	340.70	75.05	19.84	19.02	32.87	13.18	
1201	32.41	33.34	33.88	6.76	29.09	1.29	.006950	342.54	78.22	18.44	18.18	31.79	13.80	
1202	34.47	34.23	36.37	9.41	29.24	1.00	.006960	341.58	78.82	19.76	18.55	34.03	14.88	
1203	35.50	28.32	40.14	12.22	29.76	1.44	.006970	338.56	79.63	21.51	18.79	35.13	13.99	
1204	37.27	21.31	36.61	10.89	28.65	4.10	.006980	334.14	82.80	22.27	19.29	34.18	12.10	
1205	39.26	18.13	34.99	7.72	27.69	6.61	.006990	330.76	85.24	20.40	18.87	33.98	10.82	
1206	39.26	19.16	34.99	8.38	31.38	8.09	.007000	331.27	87.97	20.06	18.43	35.21	11.88	
1207	33.73	17.10	35.06	18.13	35.80	6.39	.007010	336.13	88.79	21.19	17.17	34.86	13.87	
1208	29.61	13.40	29.90	22.49	38.60	5.94	.007020	338.79	87.68	23.91	17.69	32.70	13.94	
1209	30.64	9.86	27.03	18.13	37.71	7.64	.007030	328.03	84.06	24.92	18.50	31.79	11.88	
1210	35.43	9.71	28.80	15.54	35.65	9.86	.007040	311.16	82.21	25.16	18.97	33.29	11.70	
1211	35.80	7.86	32.33	24.63	33.44	10.08	.007050	306.23	85.61	24.84	18.43	33.86	14.19	
1212	35.50	7.49	30.34	31.72	30.64	11.63	.007060	313.74	89.15	25.02	19.36	32.16	16.95	
1213	35.80	9.86	27.99	31.28	26.51	13.70	.007070	320.88	89.75	22.59	20.81	30.10	18.28	
1214	35.94	13.70	25.63	26.84	26.22	17.54	.007080	319.12	89.75	18.63	22.39	29.26	19.36	
1215	34.62	16.14	23.86	28.84	26.07	18.13	.007090	309.84	91.44	16.45	23.00	28.18	21.03	
1216	37.42	18.43	19.00	30.76	24.75	18.13	.007100	301.95	93.96	15.93	24.48	27.05	22.44	
1217	41.69	19.68	17.90	31.13	21.87	16.65	.007110	298.93	92.26	13.94	24.65	27.15	22.49	
1218	41.84	21.31	22.68	29.36	22.39	17.54	.007120	304.53	90.34	13.94	24.19	28.97	22.73	
1219	35.06	22.78	28.72	28.32	21.28	16.21	.007130	310.57	90.34	16.47	22.83	28.36	22.44	
1220	30.20	26.18	28.36	26.77	20.18	14.14	.007140	311.46	94.47	19.27	23.40	26.24	22.36	
1221	31.52	26.48	24.16	26.62	18.56	12.37	.007150	306.74	96.91	18.85	23.30	24.75	21.82	
1222	35.58	26.84	21.43	26.70	19.74	15.03	.007160	303.35	94.99	18.34	22.22	25.58	22.86	
1223	33.59	29.06	25.04	26.77	19.37	16.95	.007170	303.21	91.52	19.10	21.16	26.00	24.26	
1224	29.83	33.20	27.84	26.40	19.00	20.12	.007180	305.27	91.15	19.20	22.86	25.56	26.57	
1225	27.99	35.26	26.81	26.99	18.41	23.45	.007190	307.63	94.25	15.05	25.32	24.40	28.57	
1226	30.42	37.18	22.17	24.70	20.11	27.29	.007200	311.60	97.80	12.49	26.84	24.23	29.73	
1227	30.57	36.15	21.80	21.45	19.81	27.73	.007210	312.71	97.87	14.51	26.77	24.06	28.44	
1228	30.79	33.34	23.05	19.31	17.38	28.32	.007220	310.57	99.20	18.68	28.37	23.74	26.99	
1229	29.68	29.58	24.89	20.57	14.29	30.24	.007230	308.36	101.41	17.38	30.07	22.95	26.80	
1230	28.13	28.54	25.63	20.35	15.46	33.64	.007240	309.84	103.93	12.69	30.37	23.08	27.51	
1231	23.42	26.55	27.84	19.75	16.94	33.86	.007250	312.93	106.29	8.00	29.04	22.73	26.72	
1232	22.39	25.66	27.84	17.24	18.04	33.12	.007260	311.75	108.65	7.48	28.81	22.76	25.34	
1233	24.75	24.41	27.10	17.69	19.30	33.64	.007270	309.69	111.09	10.82	28.81	23.71	25.24	
1234	27.69	22.86	25.34	19.68	21.28	37.63	.007280	308.66	112.20	17.04	28.91	24.77	26.72	
1235	25.92	18.87	26.88	23.30	19.37	38.96	.007290	309.69	112.57	19.30	29.73	24.06	27.04	
1236	25.04	18.13	30.42	25.07	14.88	38.51	.007300	311.75	111.90	16.50	31.57	23.44	27.24	

	AC	AD	AE	AF	AG	AH
1178	0.01173	22.09432793	15.39081955	-7.81363726	31.81610188	25.26192093
1179	0.01174	21.5050087	18.41108131	-7.4453125	33.21773529	24.2306118
1180	0.01175	25.33558655	20.32637024	-8.99227619	34.61737061	22.68364906
1181	0.01176	28.65050888	16.27479935	-10.61290455	33.29140091	23.56762695
1182	0.01177	29.01883316	11.78123665	-9.87625599	32.40742111	25.85124016
1183	0.01178	26.36689568	8.68730927	-9.80259037	31.89176559	30.12380791
1184	0.01179	27.3982048	9.86594868	-12.08620358	33.88071823	31.89176559
1185	0.0118	32.62841415	10.8972578	-11.79154396	35.28035355	33.43872833
1186	0.01181	40.9525528	14.58050442	-8.84494591	37.7649617	32.92307663
1187	0.01182	43.89915085	17.96909142	-5.23536444	40.36323547	31.22876075
1188	0.01183	41.91019821	19.14773178	-3.68840051	40.9525528	26.66155434
1189	0.01184	38.88993454	14.58050442	-1.84677696	37.71129608	26.58789063
1190	0.01185	43.01517105	10.74992752	-2.80442119	34.83636365	30.41846657
1191	0.01186	54.28590775	11.48657703	-6.11934376	35.50134659	36.75365067
1192	0.01187	68.06124878	17.67443275	-8.55028629	36.67998886	39.33192444
1193	0.01188	69.09255981	22.68364906	-4.71970987	33.58605957	39.03726578
1194	0.01189	58.04281998	25.33558655	-0.88913274	30.93412209	34.17538071
1195	0.0119	46.403759	23.71495819	-0.594473	29.90281296	30.63946152
1196	0.01191	44.70946503	21.0630188	-1.47845232	30.93412209	30.05014229
1197	0.01192	43.30983353	20.32637024	-1.3311224	30.63946152	31.52344131
1198	0.01193	40.36323547	21.9469986	-2.80442119	31.67077065	31.89176559
1199	0.01194	39.33192444	22.31532288	-6.34033823	32.40742111	33.88071823
1200	0.01195	43.82548523	24.15694809	-8.69761658	34.47003937	38.37427902
1201	0.01196	43.89915085	28.65050888	-8.03463173	35.50134659	40.14223862
1202	0.01197	37.3429718	33.51239395	-4.05672503	37.26930618	36.60632324
1203	0.01198	31.81810188	31.67077065	-2.28876662	39.25825882	34.98569489
1204	0.01199	38.15328598	25.48291588	-3.4674058	39.25825882	34.98569489
1205	0.012	49.20302582	19.29506111	-4.94070435	33.73339081	35.05935669
1206	0.01201	55.83287048	18.85307121	-2.95175099	29.60815239	29.90281296
1207	0.01202	52.14962387	20.40003586	2.20479465	30.63946152	27.02986052
1208	0.01203	46.62475586	22.36898849	6.4773612	35.42768478	28.79783821
1209	0.01204	45.37245178	22.09432793	7.06668091	35.79600906	32.33375549
1210	0.01205	49.93967819	22.09432793	3.01510906	35.50134659	30.34480286
1211	0.01206	47.36140442	22.31532288	-1.92044199	35.79600906	27.98752403
1212	0.01207	38.52161026	23.12563705	-5.751019	35.94333649	25.63024521
1213	0.01208	31.52344131	22.53631783	-4.71970987	34.61737061	23.86228752
1214	0.01209	28.87150383	21.5050087	-2.58342648	37.41663742	19.00040054
1215	0.0121	25.1145916	19.07406616	-2.36243153	41.68920135	17.8954277
1216	0.01211	26.21956635	18.26375198	-2.65709138	41.83653259	22.68364906
1217	0.01212	29.53448868	19.29506111	0.58416605	35.05935669	28.72417259
1218	0.01213	32.18642426	20.47369957	5.15139246	30.19747162	28.35584831
1219	0.01214	30.93412209	18.11642265	7.50867033	31.52344131	24.15694809
1220	0.01215	31.08145142	18.26375198	5.66704702	35.57501221	21.43134499
1221	0.01216	31.67077065	22.97830772	2.64678431	33.58605957	25.04092598
1222	0.01217	29.01883316	27.10354424	1.46814537	29.82914734	27.8401947
1223	0.01218	22.75731277	22.24165916	0.1421764	27.98752403	26.80888557
1224	0.01219	21.5050087	18.92673683	-2.95175099	30.41846657	22.16799355
1225	0.0122	24.74626732	23.19930267	-4.42504978	30.56579781	21.79966927
1226	0.01221	26.44055939	29.46082306	0.1421764	30.78679276	23.05197334
1227	0.01222	22.24165916	25.48291588	4.41474295	29.68181801	24.89359665
1228	0.01223	17.37977219	16.93778229	3.75175858	28.13485336	25.63024521
1229	0.01224	10.30793858	12.07589722	1.61547518	23.42029762	27.8401947
1230	0.01225	2.79411435	15.31715393	4.3410778	22.38898849	27.8401947
1231	0.01226	2.64678431	19.44239044	10.38160324	24.74626732	27.10354424
1232	0.01227	19.07406616	19.36872673	12.66521645	27.69286346	25.33558655
1233	0.01228	33.43872833	15.1698246	9.27662945	25.92490578	26.88254929
1234	0.01229	31.52344131	12.51788616	5.44605207	25.04092598	30.41846657
1235	0.0123	19.95804596	10.60259819	8.53997993	23.86228752	34.61737061
1236	0.01231	18.11642265	7.72966528	11.63390732	22.09432793	32.77574539

	AI	AJ	AK	AL	AM	AN
1178	34.91202927	19.16379356	15.61876106	23.81664848	14.58479309	21.5271492
1179	32.62841415	22.56111717	20.86245537	22.19184303	17.24356842	19.16379356
1180	33.14406967	27.43553734	23.81664848	20.64089012	15.91418076	19.01608467
1181	35.57501221	27.65710068	18.86837387	20.56703568	11.48288918	21.89642334
1182	38.07962036	25.21989059	14.14166355	21.30558395	11.48288918	23.44737434
1183	39.47925568	23.0781002	13.18155098	19.45921326	16.13574409	23.3735199
1184	38.96360016	24.62905312	16.72658348	15.47105122	21.5271492	18.49909973
1185	34.69103241	26.99240685	16.94814873	14.58479309	21.82256889	15.17563152
1186	32.99673843	28.02637482	15.69261551	16.50501823	20.78860092	14.21551895
1187	34.24904251	25.58916473	14.73250294	17.39127731	22.26569748	14.88021278
1188	34.91202927	20.41932678	13.40311527	15.32334137	24.48134232	11.70445442
1189	30.56579781	14.3632288	7.34701777	14.2893734	21.74871254	8.08556652
1190	28.06118965	16.43116379	5.86992073	14.2893734	18.57295418	6.46075964
1191	27.91385841	21.15787506	10.37506676	14.3632288	20.34547043	7.93785667
1192	30.78679276	24.18592262	13.10769653	13.92009926	24.92447281	8.97182465
1193	32.40742111	23.00424576	10.22735691	14.95406723	25.73687553	9.56266308
1194	33.07040405	21.60100365	9.48880863	15.84032536	26.47542381	7.86400175
1195	33.73339081	19.75463295	11.99987316	16.50501823	27.14011765	7.49472761
1196	37.71129608	20.78860092	15.47105122	18.86837387	27.73095703	6.9038887
1197	38.2269516	22.11798859	14.2893734	21.01016426	26.10614967	6.68232441
1198	35.05935669	24.33363342	12.3691473	20.34547043	29.06034279	5.64835644
1199	29.09249878	24.11206818	11.18747044	19.23764801	33.34392548	6.75617933
1200	29.23982811	23.3735199	11.92601871	20.34547043	34.23018265	9.41495323
1201	29.75548172	22.85653687	12.07372856	21.45329475	28.32179451	12.22143841
1202	28.65050888	23.15195465	13.55082512	21.15787506	21.30558395	10.89205074
1203	27.69286346	21.67485809	14.14166355	20.78860092	18.12982559	7.71629238
1204	31.37611198	20.78860092	12.95998669	21.5271492	19.16379356	8.38098621
1205	35.79600906	22.04413223	8.23327637	21.23172951	17.09585762	18.12982559
1206	38.59527588	26.54927826	4.76209831	21.74871254	13.40311527	22.48726273
1207	37.71129608	26.99240685	5.64835644	22.85653687	9.85808277	18.12982559
1208	35.64867783	24.48134232	12.22143841	20.19776154	9.71037292	15.54490662
1209	33.43872833	20.64089012	15.32334137	19.31150436	7.86400175	24.62905312
1210	30.63946152	20.05005264	15.54490662	22.48726273	7.49472761	31.71911812
1211	26.51422501	20.78860092	15.54490662	26.10614967	9.85808277	31.27598953
1212	26.21956635	22.78268051	19.31150436	25.0721817	13.69853497	26.84469795
1213	26.07223511	22.56111717	22.26569748	24.18592262	16.13574409	28.83877945
1214	24.74626732	23.74279404	23.00424576	26.69698906	18.42524529	30.75900459
1215	21.87333488	22.70882607	21.5271492	29.72503662	19.6807785	31.12827873
1216	22.38898849	21.67485809	20.93630981	29.94660187	21.30558395	29.35576248
1217	21.28401375	18.86837387	19.6807785	29.94660187	22.78268051	28.32179451
1218	20.17904091	20.27161598	19.31150436	30.6112957	26.18000412	26.77084351
1219	18.55841255	21.60100365	18.27753639	30.02045631	26.47542381	26.62313271
1220	19.73705101	22.11798859	17.24356842	27.28782654	26.84469795	26.69698906
1221	19.36872673	22.11798859	16.35730934	24.99832726	29.06034279	26.77084351
1222	19.00040054	23.44737434	18.27753639	26.84469795	33.19621658	26.40156937
1223	18.41108131	22.85653687	22.04413223	31.05442429	35.26415253	26.99240685
1224	20.10537529	22.56111717	24.77676201	33.19621658	37.18437576	24.70290756
1225	19.81071472	24.77676201	22.56111717	32.97465134	36.1504097	21.45329475
1226	17.37977219	30.24202156	21.15787506	33.71319962	33.34392548	19.31150436
1227	14.2858448	33.93476486	22.63497162	33.63934326	29.57732773	20.56703568
1228	15.46448421	34.304039	24.77676201	32.01453781	28.54335976	20.34547043
1229	16.93778229	31.86682701	24.92447281	30.31587601	26.54927826	19.75463295
1230	18.04275703	29.94660187	26.40156937	30.09431076	25.66302109	17.24356842
1231	19.29506111	28.764925	27.87866592	29.79889107	24.40748787	17.68669701
1232	21.28401375	29.72503662	27.28782654	29.72503662	22.85653687	19.6807785
1233	19.36872673	30.98056984	25.51531029	32.67922974	18.86837387	23.29966545
1234	14.87516499	32.3099556	27.73095703	34.67331314	18.12982559	25.0721817
1235	13.25453568	29.94660187	30.24202156	35.19029617	18.57295418	27.28782654
1236	17.8954277	28.46950531	27.43553734	33.34392548	20.19776154	28.32179451

	AO	AP	AQ	AR	AS	AT
1178	16.35730934	349.393158	75.56541443	9.89050293	30.66401672	19.5330677
1179	11.26132488	349.0985107	71.87267303	10.82359219	30.02558708	21.87180519
1180	10.30121231	348.9511719	67.58909607	12.22322655	30.14836311	23.96435928
1181	10.5227766	346.3728943	65.8165741	11.43746758	30.81134605	22.36417007
1182	10.07964706	340.8480225	67.21981812	10.30793762	32.11276245	20.22237968
1183	8.15942097	340.6270447	69.50931549	8.41720486	33.83161163	18.57295418
1184	4.83595324	348.1408386	68.77076721	8.39264965	34.91202927	18.94223022
1185	0.77393639	353.1500549	64.265625	10.57804298	34.47003937	19.50844955
1186	1.43862998	347.5515442	60.27746201	15.56270409	34.56826019	20.07466888
1187	3.13729167	338.711731	59.39120483	18.87762642	35.28035355	19.23764801
1188	1.73404944	337.4594421	60.12975311	19.12317657	34.17537689	16.38192749
1189	-2.992661	341.8056641	61.08986664	17.20788765	31.62166214	11.99987316
1190	-2.5495317	341.6583252	62.1238327	16.9868927	31.10600662	12.19681931
1191	2.76801729	339.0064087	65.22573853	19.88438034	33.38961792	15.29872322
1192	8.30713081	339.2273865	70.39557648	25.72846603	35.59956741	17.07123947
1193	6.60846949	341.363678	74.08831787	29.01883316	35.01025009	16.06188965
1194	4.1712594	343.5736389	74.82686615	27.49642372	32.72663498	15.64337921
1195	4.24511433	341.8056641	70.61714172	23.17474747	31.4252224	16.0865078
1196	7.93785667	340.3323669	68.32764435	21.43134308	32.89852142	18.37600899
1197	7.49472761	339.8903809	70.46942902	20.76836014	33.46328354	19.13917542
1198	4.83595324	340.7006836	75.0484314	19.83527184	32.8739624	19.01608276
1199	1.29092038	342.5423279	78.22418976	18.43563652	31.79354668	18.17906189
1200	0.99550092	341.5846863	78.81503296	19.76160622	34.02804947	18.54833603
1201	1.43862998	338.5644226	79.62743378	21.5050087	35.13302231	18.79451942
1202	4.09740448	334.1445007	82.80319214	22.26621437	34.17538071	19.28688431
1203	6.60846949	330.7559204	85.24040222	20.40003586	33.97893906	18.86837387
1204	8.08556652	331.2715759	87.97303009	20.05626488	35.20668793	18.42524529
1205	6.38690472	336.1334534	88.78543091	21.18579483	34.86291885	17.16971207
1206	5.94377565	338.7854004	87.6776123	23.91139603	32.70207977	17.68669701
1207	7.64243746	328.0303345	84.05872345	24.91815186	31.79354668	18.49909973
1208	9.85808277	311.1610413	82.21235657	25.16370201	33.29140091	18.96684647
1209	10.07964706	306.2254944	85.60967255	24.84448624	33.85616302	18.42524529
1210	11.63059902	313.7393189	89.15470886	25.01637268	32.16186905	19.36074066
1211	13.69853497	320.8848267	89.74554443	22.58542824	30.0992527	20.81321907
1212	17.53898621	319.1168823	89.74554443	18.63207626	29.26438332	22.38878822
1213	18.12982559	309.835083	91.44420624	16.44668388	28.18396378	23.00424576
1214	18.12982559	301.9529419	93.95527649	15.93102837	27.05443573	24.48134232
1215	16.65272903	298.9326782	92.25661469	13.94207573	27.15265465	24.65367126
1216	17.53898621	304.5312195	90.33638763	13.94207573	28.96972275	24.18592262
1217	16.20960045	310.5717468	90.33638763	16.47123909	28.35584831	22.83191872
1218	14.14166355	311.455719	94.47225952	19.27050591	26.24411964	23.39813805
1219	12.3691473	306.7411499	96.9094696	18.85307121	24.74626732	23.29966545
1220	15.02792263	303.3525696	94.98924255	18.3374176	25.5811367	22.21646118
1221	16.94814873	303.2052307	91.51806641	19.09862137	25.9985714	21.15787506
1222	20.12390709	305.2678528	91.14878845	19.19684029	25.5565815	22.85653687
1223	23.44737434	307.6251221	94.25069427	15.04704952	24.40249634	25.3183651
1224	27.28782654	311.6030579	97.79572296	12.49333191	24.2306118	26.84469795
1225	27.73095703	312.7080078	97.86958313	14.50683975	24.05872726	26.77084351
1226	28.32179451	310.5717468	99.19896698	18.68118668	23.7395134	28.37103271
1227	30.24202156	308.3617859	101.4146118	17.37977219	22.95375252	30.06969261
1228	33.63934326	309.835083	103.9256821	12.6897707	23.07652664	30.3651123
1229	33.86090851	312.9290161	106.289032	7.99977016	22.73275757	29.03572464
1230	33.12236023	311.7503662	108.6523895	7.4841156	22.75731277	28.8141613
1231	33.63934326	309.6877441	111.0895996	10.82359314	23.71495819	28.8141613
1232	37.62750626	308.6564331	112.1974182	17.03600311	24.77082062	28.9126339
1233	38.95689392	309.6877441	112.5666962	19.29506111	24.05872726	29.72503662
1234	38.51376343	311.7503662	111.9020004	16.49579239	23.44485283	31.57140923
1235	37.47979736	311.8240356	108.7262421	13.03354168	23.91139793	31.79297256
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1178	17.48974991
1179	15.88956261
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1228	27.50939178
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1235	27.78019333
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1237								.007310	19.96	29.95	10.60	30.24	8.54	35.19
1238								.007320	18.12	28.47	7.73	27.44	11.63	33.34
1239								.007330	20.64	28.10	4.05	13.55	12.37	34.89
1240								.007340	20.69	29.06	4.56	.48	12.30	39.25
1241								.007350	16.05	28.03	7.36	5.06	13.33	42.87
1242								.007360	15.54	31.20	9.13	24.92	12.22	41.84
1243								.007370	18.78	35.41	8.83	37.70	10.60	40.14
1244								.007380	22.32	37.48	9.42	37.33	10.01	40.29
1245								.007390	21.26	33.93	6.70	30.61	11.19	40.43
1246								.007400	21.21	32.16	3.83	28.62	10.82	38.00
1247								.007410	20.99	32.90	2.43	29.80	9.42	37.26
1248								.007420	21.58	35.85	7.58	32.46	9.06	39.99
1249								.007430	20.40	34.67	15.32	35.41	8.91	44.13
1250								.007440	20.25	34.38	20.77	38.66	6.33	43.83
1251								.007450	18.41	36.15	19.88	37.63	2.65	39.10
1252								.007460	16.05	40.73	17.60	36.96	2.20	35.85
1253								.007470	14.21	42.21	13.25	39.03	4.05	38.14
1254								.007480	16.50	41.25	10.01	43.54	3.68	43.17
1255								.007490	18.56	38.22	9.13	44.50	.88	45.75
1256								.007500	18.93	37.78	12.30	42.72	-1.70	44.42
1257								.007510	17.16	39.77	14.88	42.80	-.52	42.87
1258								.007520	17.53	43.24	12.37	45.90	-.45	42.50
1259								.007530	17.67	43.83	6.33	48.78	-3.39	43.17
1260								.007540	18.26	43.09	4.49	48.63	-7.30	44.27
1261								.007550	15.61	39.40	7.95	48.11	-5.68	48.26
1262								.007560	13.64	37.63	9.50	49.08	-5.31	52.25
1263								.007570	16.20	37.92	6.11	50.04	-6.63	52.99
1264								.007580	21.87	39.70	5.15	52.32	-6.63	49.74
1265								.007590	22.02	38.81	6.85	53.88	-2.80	49.89
1266								.007600	17.38	38.74	6.18	53.95	-2.22	52.69
1267								.007610	11.34	37.78	1.25	52.77	-5.09	54.98
1268								.007620	12.08	37.33	.22	55.80	-7.81	57.20
1269								.007630	15.24	35.63	1.76	58.09	-8.55	60.60
1270								.007640	18.78	37.78	1.62	57.64	-9.88	61.85
1271								.007650	18.71	41.39	-1.70	56.24	-9.58	60.01
1272								.007660	18.71	45.68	-2.36	58.53	-7.08	58.31
1273								.007670	16.20	46.19	-1.04	57.13	-6.93	58.60
1274								.007680	12.00	44.42	.88	54.02	-9.58	58.60
1275								.007690	9.13	42.80	-.01	52.62	-11.20	58.16
1276								.007700	9.94	43.09	-1.26	54.91	-11.42	59.12
1277								.007710	7.51	41.25	-2.95	55.43	-12.38	61.48
1278								.007720	4.78	40.66	-.52	55.72	-13.71	63.62
1279								.007730	4.27	42.50	1.10	55.65	-12.60	67.39
1280								.007740	7.51	46.71	-1.33	55.43	-13.26	71.45
1281								.007750	6.62	45.75	-5.31	55.35	-16.65	74.85
1282								.007760	4.86	43.83	-7.59	55.57	-18.13	75.88
1283								.007770	3.46	42.87	-8.48	54.84	-12.90	75.44
1284								.007780	5.00	46.12	-6.63	55.35	-9.95	73.37
1285								.007790	.58	47.82	-2.36	56.68	-13.04	72.78
1286								.007800	-5.60	49.96	1.76	57.79	-19.01	73.74
1287								.007810	-9.95	50.63	.22	57.42	-19.38	73.08
1288								.007820	-7.96	51.51	-1.92	60.37	-16.60	71.60
1289								.007830	-5.01	49.30	-2.80	63.48	-14.89	72.86
1290								.007840	-6.34	46.34	-1.70	63.77	-14.15	76.25
1291								.007850	-15.33	44.72	-2.44	60.82	-13.34	78.54
1292								.007860	-18.42	47.15	-1.55	62.66	-13.49	79.50
1293								.007870	-10.39	49.15	-1.11	66.73	-12.09	81.64
1294								.007880	1.91	51.00	-1.11	68.94	-10.54	81.42
1295								.007890	5.08	51.73	-3.25	67.17	-11.28	80.09

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1237	23.86	18.57	34.62	27.29	13.25	37.48	.007310	311.82	108.73	13.03	31.79	23.91	27.78	
1238	22.09	20.20	32.78	28.32	17.90	37.78	.007320	312.19	111.24	12.49	29.75	24.26	28.76	
1239	18.85	20.64	29.76	31.57	20.25	36.82	.007330	310.20	116.48	12.42	25.52	22.95	29.68	
1240	17.23	21.82	24.75	31.87	19.37	37.78	.007340	310.06	119.73	12.52	22.93	20.45	30.49	
1241	16.42	21.67	24.16	30.54	15.98	37.63	.007350	311.31	118.33	12.25	25.32	18.85	29.95	
1242	17.53	21.08	26.37	29.36	17.82	37.78	.007360	311.60	119.21	12.30	32.65	20.57	29.40	
1243	19.00	20.79	31.16	32.46	23.27	37.48	.007370	312.19	126.01	12.74	37.75	24.48	30.24	
1244	19.59	22.56	31.97	36.59	27.69	37.78	.007380	312.63	132.14	13.92	38.37	26.42	32.31	
1245	17.09	24.19	29.68	38.81	23.27	34.97	.007390	314.03	133.76	13.06	34.99	23.35	32.65	
1246	17.67	27.51	26.22	37.78	15.54	33.05	.007400	317.35	134.06	11.95	32.93	19.81	32.78	
1247	19.59	29.65	28.28	38.07	11.27	32.16	.007410	319.26	135.76	10.95	33.32	19.71	33.29	
1248	22.46	31.13	30.20	38.66	16.05	33.71	.007420	320.00	139.45	12.74	36.10	22.90	34.50	
1249	21.36	31.28	29.61	40.51	22.39	33.27	.007430	315.88	139.45	14.88	38.07	24.45	35.02	
1250	20.77	35.12	25.34	39.62	25.92	33.49	.007440	313.08	140.26	15.78	38.96	24.01	36.08	
1251	19.59	39.70	24.45	37.78	21.80	34.30	.007450	311.46	146.54	13.65	37.63	21.95	37.26	
1252	18.93	43.46	26.44	33.34	15.91	36.30	.007460	309.02	154.81	11.95	37.85	20.42	37.70	
1253	13.99	43.39	28.50	31.87	14.36	36.74	.007470	306.89	160.94	10.50	39.79	18.95	37.33	
1254	8.32	41.84	25.48	33.34	16.64	36.59	.007480	304.97	166.55	10.06	42.65	16.82	37.26	
1255	6.18	38.22	24.38	37.18	15.91	37.18	.007490	304.02	175.27	9.52	42.82	15.49	37.53	
1256	10.97	38.07	23.94	36.96	14.14	39.84	.007500	304.97	184.58	9.84	41.64	16.35	38.29	
1257	15.54	40.06	23.49	34.53	13.03	42.35	.007510	308.66	188.56	10.50	41.81	17.36	38.98	
1258	17.31	40.88	19.74	31.72	13.48	43.61	.007520	315.88	190.04	9.82	43.88	16.84	38.74	
1259	17.38	39.40	19.74	33.71	10.46	42.35	.007530	317.50	190.78	6.87	45.26	15.86	38.49	
1260	17.09	39.10	22.39	37.63	8.61	44.64	.007540	312.12	194.62	5.15	45.33	16.03	40.46	
1261	13.77	36.45	24.53	39.55	10.09	49.08	.007550	303.79	198.53	5.96	45.26	16.13	41.69	
1262	12.89	34.16	20.77	37.18	14.51	52.84	.007560	301.07	201.41	6.01	46.32	16.05	41.39	
1263	13.92	34.38	18.12	37.78	14.51	52.69	.007570	302.62	203.04	5.23	46.98	15.51	41.62	
1264	14.58	36.30	17.38	40.14	12.37	51.51	.007580	304.68	203.33	6.80	47.25	14.78	42.65	
1265	11.93	34.38	15.76	41.32	9.42	47.67	.007590	304.68	200.75	8.69	47.52	12.37	41.12	
1266	9.94	32.31	11.56	39.84	11.93	46.64	.007600	304.97	199.57	7.12	48.46	11.14	39.60	
1267	8.39	31.72	10.90	40.43	14.88	48.26	.007610	304.16	197.72	2.50	48.51	11.39	40.14	
1268	10.09	34.23	11.49	40.43	16.05	52.62	.007620	302.98	194.25	1.49	50.11	12.54	42.43	
1269	10.31	35.26	12.44	41.54	11.93	53.36	.007630	300.26	185.39	2.82	51.44	11.56	43.39	
1270	13.25	38.14	11.41	42.21	10.16	53.28	.007640	299.01	179.41	3.51	52.42	11.61	44.55	
1271	12.96	39.10	11.49	42.95	9.79	51.73	.007650	298.34	175.79	2.47	52.55	11.41	44.59	
1272	12.67	41.17	13.77	43.24	9.64	51.51	.007660	299.96	171.65	3.09	54.17	12.03	45.31	
1273	12.81	44.42	15.83	44.42	6.92	49.44	.007670	303.94	168.77	2.75	53.97	11.85	46.10	
1274	14.65	47.75	11.85	43.39	5.89	46.93	.007680	306.74	169.21	1.10	52.35	10.80	46.02	
1275	13.40	46.05	8.54	47.01	8.47	44.67	.007690	305.56	170.03	-.69	51.19	10.14	45.97	
1276	11.78	44.79	8.47	52.25	13.40	46.34	.007700	302.17	166.85	-.91	52.37	11.22	47.79	
1277	7.66	44.79	12.00	55.65	13.40	47.82	.007710	300.33	162.12	-2.61	52.72	11.02	49.42	
1278	5.37	46.05	10.90	51.51	10.09	49.00	.007720	304.53	161.98	-3.15	53.33	8.79	48.85	
1279	4.12	46.49	8.39	49.67	7.44	47.89	.007730	309.54	160.42	-2.41	55.18	6.65	48.02	
1280	5.67	48.11	7.07	50.77	8.91	48.34	.007740	313.08	157.99	-2.36	57.86	7.21	49.08	
1281	7.36	51.00	9.79	52.40	9.87	48.71	.007750	310.79	156.07	-5.11	58.65	9.01	50.70	
1282	8.69	55.80	11.34	50.70	11.04	50.48	.007760	305.12	156.95	-6.95	58.43	10.36	52.32	
1283	8.98	58.16	12.67	51.29	9.42	49.00	.007770	298.34	156.66	-5.97	57.72	10.36	52.82	
1284	9.20	57.72	13.40	55.20	10.31	48.71	.007780	294.95	153.41	-3.86	58.28	10.97	53.88	
1285	5.52	55.94	17.01	59.71	12.22	49.37	.007790	297.16	150.08	-4.94	59.09	11.58	55.01	
1286	2.20	56.68	16.41	58.23	16.79	52.10	.007800	302.47	150.45	-7.62	60.50	12.47	55.67	
1287	1.69	57.49	16.57	56.39	18.34	51.51	.007810	304.53	152.74	-9.70	60.37	12.20	55.13	
1288	5.52	57.57	8.98	55.28	17.97	52.99	.007820	303.28	156.88	-8.89	61.16	10.82	55.28	
1289	6.18	56.31	5.37	57.13	13.84	56.90	.007830	300.85	159.76	-7.57	61.88	8.47	56.78	
1290	7.07	59.78	5.15	57.72	11.04	61.78	.007840	304.90	161.53	-7.40	62.12	7.75	59.76	
1291	8.25	61.85	6.85	57.13	8.98	62.30	.007850	312.12	160.20	-10.37	61.36	8.02	60.42	
1292	10.16	60.52	7.07	57.27	9.50	60.97	.007860	313.15	160.94	-11.15	63.11	8.91	59.59	
1293	7.51	57.27	7.14	59.86	11.27	57.13	.007870	306.00	161.83	-7.86	65.84	8.64	58.09	
1294	3.31	60.67	5.08	59.64	13.84	54.76	.007880	305.56	163.45	-3.25	67.12	7.41	58.36	
1295	1.62	62.89	3.02	57.35	13.70	54.47	.007890	311.97	161.53	-3.15	66.33	6.11	58.23	

	AC	AD	AE	AF	AG	AH
1237	0.01232	20.84202385	4.04641819	12.37055683	18.85307121	29.75548172
1238	0.01233	20.69469452	4.56207275	12.29689121	17.23244286	24.74626732
1239	0.01234	16.0538044	7.36134052	13.32820129	16.42212868	24.15694809
1240	0.01235	15.53814888	9.12929916	12.22322655	17.52710152	26.36689568
1241	0.01236	18.77940559	8.83463955	10.60259819	19.00040054	31.15511703
1242	0.01237	22.31532288	9.42395878	10.01327896	19.58972168	31.96543121
1243	0.01238	21.28401375	6.69835615	11.19191742	17.08511353	29.68181801
1244	0.01239	21.21035004	3.82542348	10.82359314	17.67443275	26.21956635
1245	0.0124	20.98935509	2.42578959	9.42395878	19.58972168	28.2621846
1246	0.01241	21.57867432	7.58233547	9.0556345	22.46265411	30.19747162
1247	0.01242	20.40003586	15.31715393	8.90830421	21.35767937	29.60815239
1248	0.01243	20.25270462	20.76836014	6.33003139	20.76836014	25.33556655
1249	0.01244	18.41108131	19.88438034	2.64678431	19.58972168	24.45160675
1250	0.01245	16.0538044	17.60076714	2.20479465	18.92673683	26.44055939
1251	0.01246	14.21218014	13.25453568	4.04641819	13.99118519	28.50317955
1252	0.01247	16.49579239	10.01327896	3.67809367	8.31898499	25.48291588
1253	0.01248	18.55841255	9.12929916	0.87882584	6.18270159	24.37794113
1254	0.01249	18.92673683	12.29689121	-1.69944715	10.97092247	23.93595314
1255	0.0125	17.15877724	14.87516499	-0.52080804	15.53814888	23.49396324
1256	0.01251	17.52710152	12.37055683	-0.44714311	17.30610847	19.73705101
1257	0.01252	17.67443275	6.33003139	-3.39374065	17.37977219	19.73705101
1258	0.01253	18.26375198	4.48840809	-7.29798269	17.08511353	22.38898649
1259	0.01254	15.61181355	7.95066023	-5.67735386	13.77019024	24.52527237
1260	0.01255	13.84385586	9.49762344	-5.3090291	12.8862114	20.76836014
1261	0.01256	16.20113373	6.10903645	-6.63499832	13.91752052	18.11642265
1262	0.01257	21.87333488	5.15139246	-6.63499832	14.58050442	17.37977219
1263	0.01258	22.02066422	6.84568596	-2.80442119	11.92856693	15.75914383
1264	0.01259	17.37977219	6.18270159	-2.21510172	9.93961334	11.56024265
1265	0.0126	11.3392477	1.24715054	-5.08803463	8.39264965	10.8972578
1266	0.01261	12.07589722	0.21584135	-7.81363726	10.08694363	11.48657703
1267	0.01262	15.24348927	1.7628051	-8.55028629	10.30793858	12.4442215
1268	0.01263	18.77940559	1.61547518	-9.87625599	13.25453568	11.41291237
1269	0.01264	18.70574188	-1.69944715	-9.58159542	12.95987606	11.48657703
1270	0.01265	18.70574188	-2.36243153	-7.07698774	12.66521645	13.77019024
1271	0.01266	16.20113373	-1.03646266	-6.92965794	12.81254578	15.83280849
1272	0.01267	12.0022316	0.87882584	-9.58159542	14.65417004	11.85490227
1273	0.01268	9.12929916	-0.00515347	-11.20222473	13.40186596	8.53997993
1274	0.01269	9.93961334	-1.25745749	-11.42321968	11.78123665	8.46631432
1275	0.0127	7.50867033	-2.95175099	-12.38086319	7.65600061	12.0022316
1276	0.01271	4.7830677	-0.52080804	-13.70683289	5.37238741	10.8972578
1277	0.01272	4.26741314	1.09982061	-12.60165814	4.12006333	8.39264965
1278	0.01273	7.50867033	-1.3311224	-13.26484299	5.66704702	7.06668091
1279	0.01274	6.62469101	-5.3090291	-16.65343094	7.36134052	9.79228401
1280	0.01275	4.85673285	-7.59264231	-18.12672806	8.68730927	11.3392477
1281	0.01276	3.45709872	-8.47662163	-12.89651775	8.98196888	12.66521645
1282	0.01277	5.00406265	-6.63499832	-9.94992065	9.20296383	13.40186596
1283	0.01278	0.58416605	-2.36243153	-13.04384804	5.51971722	17.01144791
1284	0.01279	-5.60368919	1.7628051	-19.01070786	2.20479465	18.41108131
1285	0.0128	-9.94992065	0.21584135	-19.37903214	1.6891402	16.56945801
1286	0.01281	-7.96096706	-1.92044199	-16.80076027	5.51971722	8.98196888
1287	0.01282	-5.01436949	-2.80442119	-14.88547134	6.18270159	5.37238741
1288	0.01283	-6.34033823	-1.69944715	-14.14882183	7.06668091	5.15139246
1289	0.01284	-15.32746124	-2.43609643	-13.33850765	8.24532032	6.84568596
1290	0.01285	-18.42138863	-1.55211723	-13.48583794	10.16060829	7.06668091
1291	0.01286	-10.39191055	-1.11012757	-12.08620358	7.50867033	7.14034557
1292	0.01287	1.91013503	-1.11012757	-10.53923988	3.30976892	5.07772732
1293	0.01288	5.07772732	-3.24641085	-11.2758894	1.61547518	3.01510906
1294	0.01289	3.01510906	-3.24641085	-14.14882183	5.00406265	1.54181027
1295	0.0129	1.61547518	-0.44714311	-16.35877037	7.72966528	4.26741314

	AI	AJ	AK	AL	AM	AN
1237	20.25270462	28.10023117	13.55082512	34.89487839	20.64089012	31.57140923
1238	19.36872673	29.06034279	0.478517	39.25231171	21.82256889	31.86682701
1239	15.98013878	28.02637482	5.05751753	42.87120056	21.67485809	30.53744125
1240	17.82176208	31.20213318	24.92447281	41.83723068	21.08402061	29.35576248
1241	23.27296829	35.41186142	37.70136261	40.13856888	20.78860092	32.4576683
1242	27.69286346	37.47979736	37.33208466	40.28628159	22.56111717	36.59353638
1243	23.27296829	33.93476486	30.6112957	40.43399048	24.18592262	38.80918503
1244	15.53814888	32.1622467	28.6172142	37.9967804	27.50939178	37.77521515
1245	11.26558208	32.90079498	29.79889107	37.25823212	29.65118217	38.07063675
1246	16.0538044	35.8549881	32.4576683	39.99085999	31.12827873	38.66147232
1247	22.38898849	34.67331314	35.41186142	44.12673187	31.27598953	40.50784683
1248	25.92490578	34.37789154	38.66147232	43.83131409	35.11643982	39.62158585
1249	21.79966927	36.1504097	37.62750626	39.10460281	39.6954422	37.77521515
1250	15.90647411	40.72940826	36.96281052	35.8549881	43.46203995	33.34392548
1251	14.35951042	42.20650482	39.03074646	38.14448929	43.38818359	31.86682701
1252	16.64312363	41.24639511	43.53589249	43.16661835	41.83723068	33.34392548
1253	15.90647411	38.21834564	44.49600601	45.75154114	38.21834564	37.18437576
1254	14.13851547	37.77521515	42.72349167	44.42215347	38.07063675	36.96281052
1255	13.03354073	39.76929474	42.79734421	42.87120056	40.06471634	34.52560043
1256	13.47553062	43.2404747	45.89925003	42.50192642	40.87712097	31.71911812
1257	10.45526791	43.83131409	48.77958679	43.16661835	39.4000206	33.71319962
1258	8.6136446	43.09276581	48.6318779	44.27444077	39.10460281	37.62750626
1259	10.08694363	39.4000206	48.11489487	48.26260376	36.44582748	39.54773331
1260	14.50683975	37.62750626	49.07500839	52.25076675	34.15632629	37.18437576
1261	14.50683975	37.92292404	50.03512192	52.98931503	34.37789154	37.77521515
1262	12.37055683	39.6954422	52.32461929	49.73970032	36.29811859	40.13856888
1263	9.42395878	38.80918503	53.8755722	49.88740921	34.37789154	41.32024765
1264	11.92856693	38.73532867	53.94942856	52.69389343	32.3099556	39.84315109
1265	14.87516499	37.77521515	52.76774979	54.98339462	31.71911812	40.43399048
1266	16.0538044	37.33208466	55.79579926	57.19903946	34.23018265	40.43399048
1267	11.92856693	35.63342667	58.08530045	60.59636307	35.26415253	41.5418129
1268	10.16060829	37.77521515	57.64216995	61.85189819	38.14448929	42.20650482
1269	9.79228401	41.394104	56.23892593	60.00552368	39.10460281	42.94505692
1270	9.64495373	45.67768478	58.52842712	58.30686188	41.17253876	43.2404747
1271	6.9193511	46.19466782	57.12518692	58.60228348	44.42215347	44.42215347
1272	5.88804197	44.42215347	54.0232811	58.60228348	47.74562073	43.38818359
1273	8.46631432	42.79734421	52.62004089	58.15915298	46.04695892	47.00707245
1274	13.40186596	43.09276581	54.90954208	59.11926651	44.79142761	52.25076675
1275	13.40186596	41.24639511	55.42652512	61.48262024	44.79142761	55.64809036
1276	10.08694363	40.65555573	55.7219429	63.62441254	46.04695892	51.51221848
1277	7.43500566	42.50192642	55.64809036	67.39100647	46.49008942	49.66584778
1278	8.90830421	46.71165085	55.42652512	71.45302582	48.11489487	50.7736702
1279	9.86594868	45.75154114	55.35266876	74.85034943	50.99523544	52.39847565
1280	11.04458809	43.83131409	55.57423401	75.88431549	55.79579926	50.69981384
1281	9.42395878	42.87120056	54.83568573	75.441185	58.15915298	51.29065323
1282	10.30793858	46.12081528	55.35266876	73.37325287	57.71602631	55.20495987
1283	12.22322655	47.81947327	56.68205643	72.7824173	55.94350815	59.7101059
1284	16.79045296	49.96126556	57.78987885	73.74252319	56.68205643	58.23300934
1285	18.3374176	50.62595749	57.42060471	73.07783508	57.49446106	56.38663864
1286	17.96909142	51.51221848	60.37479782	71.60073853	57.5683136	55.27881622
1287	13.84385586	49.29657364	63.47670364	72.85626984	56.31278229	57.12518692
1288	11.04458809	46.34237671	63.77212143	76.25359344	59.78396225	57.71602631
1289	8.98196888	44.71757126	60.81792831	78.54309082	61.85189819	57.12518692
1290	9.49762344	47.15478134	62.66429901	79.50320435	60.52251053	57.27289581
1291	11.26558208	49.14886093	66.72631836	81.64499664	57.27289581	59.85781479
1292	13.84385586	50.99523544	68.9419632	81.4234314	60.67021942	59.63624954
1293	13.69652557	51.73378372	67.16944885	80.09404755	62.88586426	57.34675217
1294	12.4442215	52.69389343	65.98777008	80.46331787	61.63033295	57.42060471
1295	10.23427296	52.25076675	65.98777008	82.60511017	58.15915298	63.77212143

	AO	AP	AQ	AR	AS	AT
1237	36.81510162	310.2033997	116.4810028	12.41966629	22.95375252	25.51531219
1238	37.77521515	310.0560913	119.7306137	12.51788616	20.44914627	22.93039131
1239	37.62750626	311.3083801	118.3273773	12.24778175	18.85307121	25.3183651
1240	37.77521515	311.6030579	119.2136307	12.29689121	20.57192039	32.65461349
1241	37.47979736	312.1923523	126.0082779	12.73888111	24.47616196	37.75059891
1242	37.77521515	312.6343384	132.1382294	13.91752052	26.41600609	38.36605453
1243	34.96873093	314.0339966	133.763031	13.05809593	23.34663391	34.99335098
1244	33.04850388	317.3489075	134.0584564	11.95312214	19.81071663	32.92541504
1245	32.1622467	319.2641907	135.7571259	10.94636822	19.7124958	33.31930542
1246	33.71319962	320.0008545	139.4498596	12.73888111	22.90464401	36.1011734
1247	33.27006912	315.8756104	139.4498596	14.87516499	24.45160675	38.07063675
1248	33.49163437	313.076355	140.2622681	15.78369904	24.00961685	38.95689392
1249	34.304039	311.455719	146.5399323	13.64741516	21.9469986	37.62750626
1250	36.29811859	309.0247803	154.811676	11.95312214	20.42459106	37.84906769
1251	36.74124908	306.8884888	160.9416199	10.50437832	18.95129204	39.79391479
1252	36.59353638	304.9732056	166.554596	10.06238842	16.81500816	42.64963531
1253	37.18437576	304.015564	175.269455	9.5221796	15.48903847	42.82196426
1254	39.84315109	304.9732056	184.5751801	9.84139347	16.34846306	41.64028549
1255	42.35421753	308.6564331	188.5633392	10.50437832	17.35521698	41.81261444
1256	43.60974884	315.8756104	190.0404358	9.81683826	16.83956337	43.88055038
1257	42.35421753	317.4962463	190.7789764	6.87024117	15.8573637	45.25917435
1258	44.6437149	312.1186829	194.6194305	5.15139246	16.02924919	45.33302689
1259	49.07500839	303.7945557	198.5337372	5.96170664	16.12746811	45.25917435
1260	52.84160614	301.0689697	201.4140778	6.01081657	16.0538044	46.31776047
1261	52.69389343	302.6159058	203.0388794	5.22505713	15.51359463	46.98245239
1262	51.51221848	304.6785278	203.3343048	6.7965765	14.77694416	47.25325394
1263	47.67176437	304.6785278	200.7493897	8.68730927	12.37055683	47.52405548
1264	46.63779831	304.9732056	199.5677033	7.11579084	11.14280796	48.45954895
1265	48.26260376	304.1628723	197.721344	2.4994545	11.38835716	48.50878525
1266	52.62004089	302.9842529	194.2501526	1.49270046	12.54244137	50.10897446
1267	53.35858917	300.2586365	185.3875732	2.81866932	11.56024265	51.43836212
1268	53.28473282	299.0063477	179.4053345	3.50620818	11.60935211	52.4230957
1269	51.73378372	298.3433533	175.7864533	2.47489977	11.41291237	52.54618454
1270	51.51221848	299.9639893	171.6505737	3.0887742	12.0267868	54.17098999
1271	49.44428253	303.9418945	168.7702332	2.74500442	11.85490227	53.9740448
1272	46.93321609	306.7411499	169.2133637	1.09982061	10.79903793	52.34923935
1273	44.86528015	305.5625305	170.0257721	-0.692693	10.13605309	51.19218063
1274	46.34237671	302.1739197	166.8500061	-0.91368794	11.21647263	52.37385941
1275	47.81947327	300.3323059	162.1233063	-2.6079812	11.02003288	52.71851349
1276	49.00115204	304.5312195	161.9755859	-3.14819098	8.78553009	53.33396912
1277	47.89332962	309.5404358	160.4246368	-2.41154146	6.64924622	55.18033981
1278	48.33646011	313.076355	157.9874268	-2.36243176	7.21401072	57.8637352
1279	48.70573425	310.7927246	156.0671997	-5.11258984	9.00652409	58.65151978
1280	50.4782486	305.1205139	156.9534607	-6.95421267	10.35704803	58.42995453
1281	49.00115204	298.3433533	156.6580353	-5.97201347	10.35704803	57.71602249
1282	48.70573425	294.954773	153.408432	-3.86028552	10.97092247	58.28224564
1283	49.37042618	297.1647034	150.0849609	-4.94070435	11.58479691	59.09465027
1284	52.10305786	302.4685974	150.4542389	-7.61719751	12.4687767	60.49789047
1285	51.51221848	304.5312195	152.7437286	-9.7043705	12.19867229	60.37479782
1286	52.98931503	303.2789002	156.8796082	-8.89405632	10.82359219	61.16258621
1287	56.90362167	300.8479614	159.7599487	-7.56808758	8.46631527	61.87651443
1288	61.77804184	304.8995361	161.5324554	-7.39620256	7.75422049	62.12269592
1289	62.29502487	312.1186829	160.2030792	-10.36735535	8.02432537	61.3595314
1290	60.96563721	313.1499939	160.9416199	-11.15311432	8.90830421	63.1074295
1291	57.12518692	306.0045166	161.8278809	-7.86274719	8.63819885	65.84005737
1292	54.76182938	305.5625305	163.4526825	-3.24641085	7.41045094	67.12020874
1293	54.46641159	311.9713745	161.5324554	-3.14819098	6.10903645	66.33242798
1294	55.79579926	313.9603272	156.2149048	-4.79337454	6.33003139	66.38166046
1295	56.09121704	309.6877441	152.2267456	-5.06347942	7.41045046	66.94788361

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1237	29.67580032
1238	30.48820305
1239	29.94660187
1240	29.40499878
1241	30.24202156
1242	32.3099556
1243	32.65461349
1244	32.77770233
1245	33.29468918
1246	34.50098419
1247	35.01796722
1248	36.07655334
1249	37.25823212
1250	37.70136261
1251	37.33208466
1252	37.25823212
1253	37.52903366
1254	38.29219818
1255	38.98151016
1256	38.73532867
1257	38.48914719
1258	40.45860672
1259	41.68952179
1260	41.394104
1261	41.61566544
1262	42.64963531
1263	41.12330246
1264	39.5969696
1265	40.13857269
1266	42.42807007
1267	43.38818359
1268	44.54524231
1269	44.59448242
1270	45.30841064
1271	46.09619522
1272	46.02233887
1273	45.97310257
1274	47.79485703
1275	49.41966248
1276	48.85344315
1277	48.01642227
1278	49.07500839
1279	50.69981384
1280	52.32461929
1281	52.81698608
1282	53.8755722
1283	55.00801468
1284	55.6727066
1285	55.13110733
1286	55.27881622
1287	56.78052902
1288	59.75934219
1289	60.42403793
1290	59.58701324
1291	58.08530045
1292	58.35609818
1293	58.23300934
1294	58.28224564
1295	59.34083176

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1296								.007900	3.02	52.69	-3.25	65.99	-14.15	80.46
1297								.007910	1.62	52.25	-.45	65.99	-16.36	82.61
1298								.007920	4.49	51.81	3.24	69.61	-16.14	83.20
1299								.007930	6.70	48.85	.29	71.01	-15.77	81.28
1300								.007940	7.66	45.97	-4.72	69.46	-15.03	80.32
1301								.007950	6.92	46.49	-8.48	66.87	-10.91	82.68
1302								.007960	7.95	50.33	-5.31	68.65	-7.59	85.49
1303								.007970	6.62	50.55	-1.33	71.45	-7.89	86.45
1304								.007980	4.41	49.67	-1.63	71.53	-12.53	83.05
1305								.007990	.95	48.41	-5.82	71.01	-14.96	80.17
1306								.008000	2.06	50.04	-6.49	73.52	-17.17	77.95
1307								.008010	3.53	50.26	-1.48	76.92	-19.45	78.69
1308								.008020	3.83	51.22	2.13	78.84	-22.55	79.72
1309								.008030	2.13	51.96	-.59	79.28	-23.50	80.91
1310								.008040	3.90	54.54	-4.43	79.87	-22.84	81.20
1311								.008050	5.59	54.10	-5.01	77.95	-20.93	82.68
1312								.008060	5.59	53.14	-.30	76.48	-19.75	83.57
1313								.008070	2.35	51.66	1.17	76.62	-18.79	84.01
1314								.008080	1.62	52.10	-.52	78.40	-18.57	84.01
1315								.008090	3.83	51.07	-4.50	78.54	-19.67	85.63
1316								.008100	9.35	51.96	-3.54	78.69	-24.09	86.00
1317								.008110	14.36	52.62	-.74	79.13	-25.35	86.37
1318								.008120	16.64	53.58	.07	81.05	-21.96	87.85
1319								.008130	14.88	53.28	-2.36	81.50	-15.77	90.29
1320								.008140	13.03	53.28	-2.95	82.83	-11.79	92.21
1321								.008150	10.16	54.02	-1.92	83.71	-11.28	93.02
1322								.008160	8.83	56.68	.44	85.19	-13.26	93.31
1323								.008170	9.57	58.75	-1.18	83.12	-12.68	93.76
1324								.008180	10.16	58.31	-6.63	82.38	-12.38	93.46
1325								.008190	8.61	55.06	-12.90	84.16	-14.96	94.94
1326								.008200	10.16	56.39	-13.12	86.00	-20.26	93.68
1327								.008210	14.65	58.90	-7.37	86.00	-20.93	89.62
1328								.008220	21.21	60.30	-2.66	85.12	-17.02	86.45
1329								.008230	22.61	58.60	-4.43	83.27	-12.90	89.62
1330								.008240	20.18	59.64	-8.33	82.53	-17.02	92.87
1331								.008250	16.72	61.19	-8.55	82.31	-21.22	91.76
1332								.008260	17.23	62.74	-6.56	82.09	-22.40	88.96
1333								.008270	17.31	62.07	-4.57	81.79	-19.31	88.44
1334								.008280	15.98	62.44	-2.66	81.35	-19.31	86.08
1335								.008290	11.12	62.30	-1.70	80.17	-20.34	85.78
1336								.008300	9.50	63.18	-1.40	81.05	-20.48	89.84
1337								.008310	9.42	65.47	-4.57	79.58	-17.61	95.97
1338								.008320	11.93	70.27	-8.62	77.51	-15.84	95.83
1339								.008330	14.14	72.41	-12.82	76.99	-15.77	92.50
1340								.008340	17.09	72.27	-14.89	80.24	-17.68	90.80
1341								.008350	17.75	70.42	-16.87	80.91	-18.35	92.58
1342								.008360	17.16	68.42	-15.84	79.72	-18.94	92.13
1343								.008370	14.29	64.81	-12.16	79.58	-17.39	90.51
1344								.008380	11.41	61.26	-9.88	81.64	-16.14	88.81
1345								.008390	9.87	59.34	-11.57	82.24	-16.73	88.00
1346								.008400	12.22	61.04	-10.61	82.53	-18.42	86.89
1347								.008410	13.40	62.89	-8.11	82.83	-17.39	88.44
1348								.008420	12.61	63.18	-8.55	84.16	-15.11	91.76
1349								.008430	12.00	60.67	-12.23	83.42	-13.85	95.23
1350								.008440	14.36	61.26	-10.76	83.05	-15.99	96.86
1351								.008450	15.46	64.22	-6.49	83.64	-17.76	97.15
1352								.008460	14.95	66.14	-5.16	84.45	-19.08	96.56
1353								.008470	12.74	64.58	-7.59	82.38	-16.95	96.56
1354								.008480	14.14	66.58	-8.18	81.13	-15.77	94.87

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1296	5.00	61.63	1.54	57.42	12.44	55.80	.007900	313.96	156.21	-4.79	66.38	6.33	58.28	
1297	7.73	58.16	4.27	63.77	10.23	56.09	.007910	309.69	152.23	-5.06	66.95	7.41	59.34	
1298	10.75	58.01	5.00	67.10	8.10	57.49	.007920	308.66	153.11	-2.80	68.20	7.95	60.87	
1299	11.63	58.97	4.27	67.76	6.11	58.90	.007930	312.12	154.22	-2.93	67.05	7.34	61.88	
1300	10.01	59.78	.88	66.73	8.10	58.60	.007940	314.33	155.33	-4.03	65.25	6.33	61.70	
1301	6.48	59.56	.14	67.69	11.19	56.61	.007950	308.51	153.63	-4.15	65.35	5.94	61.29	
1302	8.02	60.60	.36	69.31	11.93	57.57	.007960	307.70	153.48	-1.65	68.15	6.77	62.49	
1303	10.75	60.01	2.20	73.08	8.39	59.93	.007970	314.70	153.33	-.86	69.48	7.12	64.34	
1304	10.01	57.57	1.62	74.78	7.95	63.18	.007980	321.62	154.44	-3.25	68.08	6.53	65.18	
1305	5.67	54.76	2.35	76.25	8.39	63.62	.007990	320.52	155.62	-6.61	66.53	5.47	64.88	
1306	6.33	55.94	3.09	75.81	7.73	64.29	.008000	316.76	156.29	-7.20	67.17	5.72	65.35	
1307	10.09	57.13	4.19	76.33	2.57	62.00	.008010	317.20	153.26	-5.80	68.62	5.62	65.15	
1308	11.93	56.76	3.53	75.15	2.13	61.33	.008020	320.59	149.72	-5.53	69.93	5.86	64.41	
1309	9.28	57.27	3.83	75.44	4.41	61.26	.008030	321.62	148.39	-7.32	70.71	5.84	64.66	
1310	7.95	59.86	2.57	77.14	6.40	65.10	.008040	323.17	150.82	-7.79	71.87	5.64	67.37	
1311	6.70	59.56	1.62	81.94	3.97	67.39	.008050	321.62	152.37	-6.78	71.58	4.10	69.63	
1312	6.04	57.64	1.54	84.82	4.41	69.24	.008060	320.59	158.87	-4.82	71.06	4.00	70.57	
1313	4.27	56.83	4.12	86.67	5.15	68.06	.008070	319.49	164.93	-5.09	70.76	4.51	70.52	
1314	6.04	60.37	5.96	86.81	5.45	67.76	.008080	320.07	163.45	-5.82	71.50	5.81	71.65	
1315	7.80	62.00	5.52	87.55	4.27	68.06	.008090	320.07	153.85	-6.78	71.75	5.86	72.54	
1316	9.42	62.96	2.28	87.55	4.93	70.71	.008100	321.03	147.57	-6.09	72.22	5.54	73.74	
1317	9.13	63.62	.36	88.59	4.78	71.38	.008110	321.99	146.76	-3.91	72.71	4.76	74.53	
1318	10.09	64.81	-.37	89.47	6.55	71.60	.008120	323.39	150.45	-1.75	74.16	5.42	75.29	
1319	11.19	63.92	1.10	89.99	7.58	70.86	.008130	324.64	153.85	-1.09	75.02	6.62	74.92	
1320	13.11	65.54	3.38	86.45	7.58	70.94	.008140	326.78	155.33	-.57	76.11	8.02	74.31	
1321	9.72	67.76	8.54	83.71	6.55	70.42	.008150	324.42	152.82	-1.01	76.92	8.27	73.96	
1322	7.36	68.65	9.57	82.38	9.13	71.75	.008160	320.74	151.93	-1.33	78.40	8.69	74.26	
1323	8.32	66.87	7.88	82.09	10.31	71.90	.008170	317.79	151.93	-1.43	78.54	8.83	73.62	
1324	11.78	68.06	4.93	79.43	8.61	71.90	.008180	318.09	151.93	-2.95	78.05	8.44	73.13	
1325	8.98	68.79	4.56	78.54	5.59	70.64	.008190	315.65	150.08	-6.41	78.05	6.38	72.66	
1326	5.45	68.13	3.16	77.88	3.38	68.79	.008200	312.63	149.12	-7.74	79.36	4.00	71.60	
1327	5.00	66.43	2.57	78.32	.66	65.84	.008210	309.39	148.09	-4.55	78.84	2.75	70.20	
1328	8.32	66.80	3.02	78.69	.44	66.87	.008220	306.30	148.46	.51	77.29	3.92	70.79	
1329	9.28	64.44	5.74	81.64	1.62	68.94	.008230	304.46	147.20	1.76	77.16	5.54	71.67	
1330	10.60	62.15	5.59	82.31	3.68	70.64	.008240	308.14	147.94	-1.72	78.35	6.62	71.70	
1331	11.63	60.82	7.21	83.57	4.71	69.16	.008250	309.76	147.57	-4.35	78.42	7.85	71.18	
1332	12.30	60.97	7.66	82.68	8.02	68.57	.008260	310.06	148.09	-3.91	77.93	9.33	70.74	
1333	10.16	59.27	7.51	82.97	9.42	67.17	.008270	307.26	144.84	-2.19	77.44	9.03	69.80	
1334	7.80	58.45	6.11	84.30	9.72	68.06	.008280	307.99	143.07	-1.99	76.62	7.88	70.27	
1335	4.78	58.38	7.29	88.81	5.89	68.06	.008290	309.98	143.36	-3.64	76.08	5.99	71.75	
1336	4.71	61.70	4.78	90.58	2.79	69.53	.008300	311.60	145.58	-4.13	78.03	4.10	73.94	
1337	4.71	63.92	1.17	89.47	1.69	71.08	.008310	309.25	146.76	-4.25	80.34	2.52	74.83	
1338	4.64	63.92	-.30	86.96	5.15	73.96	.008320	306.00	145.80	-4.18	81.20	3.16	74.95	
1339	2.35	62.74	1.39	86.08	8.17	73.96	.008330	303.94	142.85	-4.82	80.64	3.97	74.26	
1340	3.53	66.06	1.54	85.49	8.98	72.93	.008340	304.38	142.18	-5.16	81.10	4.68	74.83	
1341	5.00	70.64	2.35	86.89	7.66	72.34	.008350	302.47	142.03	-5.82	81.30	5.00	76.62	
1342	4.19	74.85	1.91	86.74	8.10	72.71	.008360	303.79	141.59	-5.87	80.09	4.73	78.10	
1343	-.45	75.29	2.35	87.04	9.13	71.31	.008370	309.69	140.34	-5.09	78.30	3.68	77.88	
1344	-2.22	76.18	.73	86.22	11.34	70.71	.008380	316.46	140.85	-4.87	77.24	3.29	77.71	
1345	-2.22	75.66	.29	86.96	11.19	71.53	.008390	315.14	142.03	-6.14	76.52	3.09	78.05	
1346	-.15	75.88	-1.11	85.63	10.09	73.96	.008400	309.25	142.77	-5.60	76.82	2.94	78.49	
1347	2.28	75.37	-.74	85.19	8.69	73.45	.008410	309.39	143.73	-4.03	78.05	3.41	78.00	
1348	6.18	76.18	.29	85.34	9.64	71.45	.008420	317.13	144.55	-3.61	79.70	5.37	77.66	
1349	6.18	76.03	2.72	86.81	13.25	68.20	.008430	320.30	143.36	-4.70	79.77	7.39	77.02	
1350	4.41	75.29	3.53	86.81	18.71	68.94	.008440	316.76	142.18	-4.13	80.39	8.88	77.02	
1351	3.09	74.55	5.15	86.96	17.16	70.12	.008450	315.73	140.41	-2.93	81.67	8.47	77.21	
1352	6.18	76.18	6.04	85.63	9.72	71.31	.008460	321.55	142.03	-3.10	82.38	7.31	77.71	
1353	11.49	77.95	6.40	83.86	2.94	71.75	.008470	317.79	142.92	-3.93	81.18	6.94	77.85	
1354	16.57	78.40	4.12	80.76	5.08	73.00	.008480	306.15	142.40	-3.27	80.86	8.59	77.39	

	AC	AD	AE	AF	AG	AH
1296	0.01291	4.48840809	3.23610401	-16.13777542	10.74992752	5.00406265
1297	0.01292	6.69835615	0.28950629	-15.76945114	11.63390732	4.26741314
1298	0.01293	7.65600061	-4.71970987	-15.03280163	10.01327896	0.87862584
1299	0.01294	6.9193511	-8.47662163	-10.90756512	6.4773612	0.1421764
1300	0.01295	7.95066023	-5.3090291	-7.59264231	8.02432537	0.36317122
1301	0.01296	6.62469101	-1.3311224	-7.88730192	10.74992752	2.20479465
1302	0.01297	4.41474295	-1.62578213	-12.52819347	10.01327896	1.61547518
1303	0.01298	0.95249075	-5.82468367	-14.95913601	5.66704702	2.35212469
1304	0.01299	2.05746484	-6.48766804	-17.16908455	6.33003139	3.08877397
1305	0.013	3.53076363	-1.47845232	-19.45269775	10.08694363	4.193748
1306	0.01301	3.82542348	2.13112974	-22.54662514	11.92856693	3.53076363
1307	0.01302	2.13112974	-0.594473	-23.50427055	9.27662945	3.82542348
1308	0.01303	3.89908838	-4.42504978	-22.64128571	7.95066023	2.5731194
1309	0.01304	5.59338188	-5.01436949	-20.92599678	6.69835615	1.61547518
1310	0.01305	5.59338188	-0.29981324	-19.74735832	6.03537178	1.54181027
1311	0.01306	2.35212469	1.17348564	-18.78971291	4.26741314	4.12008333
1312	0.01307	1.61547518	-0.52080804	-18.56871796	6.03537178	5.96170664
1313	0.01308	3.82542348	-4.49871492	-19.6736927	7.80333042	5.51971722
1314	0.01309	9.35029411	-3.5410707	-24.09358978	9.42395878	2.27845979
1315	0.0131	14.35951042	-0.74180287	-25.34589386	9.12929916	0.36317122
1316	0.01311	16.64312363	0.06851147	-21.95730591	10.08694363	-0.37347817
1317	0.01312	14.87516499	-2.36243153	-15.76945114	11.19191742	1.09962061
1318	0.01313	13.03354073	-2.95175099	-11.79154396	13.10720634	3.38343382
1319	0.01314	10.16060829	-1.92044199	-11.2758894	9.71861839	8.53997993
1320	0.01315	8.83463955	0.43683618	-13.26484299	7.36134052	9.57128906
1321	0.01316	9.57128906	-1.18379247	-12.67552376	8.31898499	7.87699509
1322	0.01317	10.16060829	-6.63499832	-12.38086319	11.78123665	4.93039751
1323	0.01318	8.6136446	-12.89651775	-14.95913601	8.98196888	4.56207275
1324	0.01319	10.16060829	-13.1175127	-20.26301193	5.44605207	3.16243887
1325	0.0132	14.65417004	-7.37164736	-20.92599678	5.00406265	2.5731194
1326	0.01321	21.21035004	-2.65709138	-17.02175522	8.31898499	3.01510906
1327	0.01322	22.60998344	-4.42504978	-12.89651775	9.27662945	5.74071169
1328	0.01323	20.17904091	-8.32929134	-17.02175522	10.60259819	5.59338188
1329	0.01324	16.71678734	-8.55028629	-21.22065735	11.63390732	7.21401072
1330	0.01325	17.23244286	-6.56133318	-22.39929581	12.29689121	7.65600061
1331	0.01326	17.30610847	-4.57237959	-19.30536842	10.16060829	7.50867033
1332	0.01327	15.98013878	-2.65709138	-19.30536842	7.80333042	6.10903645
1333	0.01328	11.11825275	-1.69944715	-20.33667755	4.7830677	7.28767586
1334	0.01329	9.49762344	-1.4047873	-20.48400688	4.70940256	4.7830677
1335	0.0133	9.42395878	-4.57237959	-17.61107445	4.70940256	1.17348564
1336	0.01331	11.92856693	-8.62395191	-15.64311581	4.6357379	-0.29961324
1337	0.01332	14.13851547	-12.82285309	-15.76945114	2.35212469	1.39448035
1338	0.01333	17.08511353	-14.88547134	-17.68474007	3.53076363	1.54181027
1339	0.01334	17.74809647	-16.87442589	-18.34772301	5.00406265	2.35212469
1340	0.01335	17.15877724	-15.84311581	-18.93704414	4.193748	1.91013503
1341	0.01336	14.2858448	-12.15986919	-17.3900795	-0.44714311	2.35212469
1342	0.01337	11.41291237	-9.87625599	-16.13777542	-2.21510172	0.73149592
1343	0.01338	9.86594868	-11.57054901	-16.72709465	-2.21510172	0.28950629
1344	0.01339	12.22322655	-10.61290455	-18.42138863	-0.15248336	-1.11012757
1345	0.0134	13.40186596	-8.10829735	-17.3900795	2.27845979	-0.74180287
1346	0.01341	12.81254578	-8.55028629	-15.10646629	6.16270159	0.28950629
1347	0.01342	12.0022316	-12.23353386	-13.65416222	6.16270159	2.72044945
1348	0.01343	14.35951042	-10.76023483	-15.99044609	4.41474295	3.53076363
1349	0.01344	15.46448421	-6.48766804	-17.75840378	3.08877397	5.15139246
1350	0.01345	14.94882965	-5.1616993	-19.08437347	6.16270159	6.03537178
1351	0.01346	12.73888111	-7.59264231	-16.9480896	11.48657703	6.40369654
1352	0.01347	14.13851547	-8.18196201	-15.76945114	16.56945801	4.12008333
1353	0.01348	14.65417004	-9.28693581	-15.32746124	18.11642265	2.5731194
1354	0.01349	15.39081955	-9.94992065	-15.47479153	17.67443275	0.1421764

	AI	AJ	AK	AL	AM	AN
1296	8.09799004	51.80763626	69.60665894	83.19594574	58.01144409	67.09558868
1297	6.10903645	48.85344315	71.00989532	81.27571869	58.97155762	67.76028442
1298	8.09799004	45.97310257	69.45894623	80.31560516	59.78396225	66.72631836
1299	11.19191742	46.49008942	66.87402344	82.67896271	59.562397	67.68643188
1300	11.92856693	50.3305397	68.64654541	85.48545074	60.59636307	69.31123352
1301	8.39264965	50.55210495	71.45302582	86.44556427	60.00552368	73.07783508
1302	7.95066023	49.66584778	71.52687836	83.04824066	57.5683136	74.77649689
1303	8.39264965	48.41031265	71.00989532	80.16790009	54.76182938	76.25359344
1304	7.72966528	50.03512192	73.52096558	77.95225525	55.94350815	75.81046295
1305	2.5731194	50.25668335	76.91828918	78.69080353	57.12518692	76.32744598
1306	2.13112974	51.21679688	78.83850861	79.72476959	56.75591278	75.14576721
1307	4.41474295	51.95534515	79.2816391	80.90644836	57.27289581	75.441185
1308	6.40369654	54.54026794	79.8724823	81.20186615	59.85781479	77.1398468
1309	3.97275329	54.09713745	77.95225525	82.67896271	59.562397	81.94041443
1310	4.41474295	53.13702393	76.47515869	83.56522369	57.64216995	84.820755
1311	5.15139246	51.65992737	76.62286377	84.00835419	56.82976532	86.66712189
1312	5.44605207	52.10305786	78.39538574	84.00835419	60.37479782	86.81483459
1313	4.26741314	51.06908798	78.54309082	85.63315582	61.99960709	87.55338287
1314	4.93039751	51.95534515	78.69080353	86.00243378	62.95972061	87.55338287
1315	4.7830677	52.62004089	79.13393402	86.3717041	63.62441254	88.58734894
1316	6.55102634	53.58015442	81.05415344	87.84880066	64.80609131	89.47360992
1317	7.58233547	53.28473282	81.49728394	90.28601074	63.91983032	89.99059296
1318	7.58233547	53.28473282	82.82667542	92.20623779	65.54463959	86.44556427
1319	6.55102634	54.0232811	83.71292877	93.01864624	67.76028442	83.71292877
1320	9.12929916	56.68205643	85.19002533	93.31406403	68.64654541	82.38354492
1321	10.30793858	58.74999237	83.1220932	93.75719452	66.87402344	82.08812714
1322	8.6136446	58.30686188	82.38354492	93.4617691	68.05570221	79.42935181
1323	5.59338188	55.05725098	84.15605927	94.93886566	68.79425049	78.54309082
1324	3.38343382	56.38663864	87.99651337	93.68333435	68.12955475	77.87839508
1325	0.65783101	58.89770126	87.99651337	89.62132263	66.43090057	78.32152557
1326	0.43683618	60.30094528	85.11617279	86.44556427	66.8001709	78.69080353
1327	1.61547518	58.60228348	83.26980591	89.62132263	64.43681335	81.64499664
1328	3.67809367	59.63624954	82.53125763	92.87093353	62.14731598	82.30969238
1329	4.70940256	61.18720245	82.30969238	91.7631073	60.81792831	83.56522369
1330	8.02432537	62.73815536	82.08812714	88.95662689	60.96563721	82.67896271
1331	9.42395878	62.07345963	81.79270172	88.43964386	59.2669754	82.97438049
1332	9.71861839	62.44273376	81.34957886	86.07628632	58.45457458	84.30377197
1333	5.88804197	62.29502487	80.16790009	85.78086853	58.38071823	88.80891418
1334	2.79411435	63.18128204	81.05415344	89.84288025	61.70418549	90.58143616
1335	1.6891402	65.47078705	79.57705688	95.97283936	63.91983032	89.47360992
1336	5.15139246	70.27134705	77.50912476	95.82512665	63.91983032	86.9625473
1337	8.1716547	72.41313934	76.99214172	92.50165558	62.73815536	86.07628632
1338	8.98196888	72.26542664	80.24175262	90.80299377	66.06162262	85.48545074
1339	7.65600061	70.41905975	80.90644836	92.57551575	70.640625	86.88868713
1340	8.09799004	68.42498016	79.72476959	92.13238525	74.85034943	86.74098206
1341	9.12929916	64.80609131	79.57705688	90.50757599	75.29347992	87.03639984
1342	11.3392477	61.26105881	81.64499664	88.80891418	76.17973328	86.22399902
1343	11.19191742	59.34083176	82.23583221	87.99651337	75.66275024	86.9625473
1344	10.08694363	61.03949356	82.53125763	86.88868713	75.88431549	85.63315582
1345	8.68730927	62.88586426	82.82667542	88.43964386	75.36733246	85.19002533
1346	9.64495373	63.18128204	84.15605927	91.7631073	76.17973328	85.33773804
1347	13.25453568	60.67021942	83.41751099	95.23429108	76.0320282	86.81483459
1348	18.70574188	61.26105881	83.04824066	96.85909271	75.29347992	86.81483459
1349	17.15877724	64.21524811	83.63907623	97.1545105	74.55493164	86.9625473
1350	9.71861839	66.13547516	84.45147705	96.56367493	76.17973328	85.63315582
1351	2.94144416	64.58452606	82.38354492	96.56367493	77.95225525	83.86064148
1352	5.07772732	66.57860565	81.12801361	94.86501312	78.39538574	80.75873566
1353	8.39264965	69.68051147	83.1220932	92.3539505	76.77057648	80.38946533
1354	10.45526791	71.23146057	86.07628632	90.80299377	77.36141205	79.94633484

	AO	AP	AQ	AR	AS	AT
1296	57.49446106	308.6564331	153.1130066	-2.80442119	7.95066023	68.20341492
1297	58.89770126	312.1186829	154.2208252	-2.92719626	7.33678579	67.0463562
1298	58.60228348	314.3286438	155.3286591	-4.0321703	6.33003139	65.2492218
1299	56.60820389	308.5091248	153.6299896	-4.15494537	5.93715191	65.3476944
1300	57.5683136	307.6987915	153.4822846	-1.6503371	6.77202129	68.1541748
1301	59.93167114	314.6969605	153.3345795	-0.86457777	7.11579037	69.48356628
1302	63.18128204	321.62146	154.4423981	-3.24641085	6.52647161	68.08032227
1303	63.62441254	320.51651	155.6240692	-6.61044312	5.47060728	66.52937317
1304	64.28910828	316.7595825	156.2887726	-7.19976234	5.71615696	67.16944885
1305	61.99960709	317.2015686	153.2607117	-5.80012894	5.61793709	68.62192535
1306	61.33491135	320.5901794	149.715683	-5.53002405	5.86348677	69.92668915
1307	61.26105881	321.62146	148.3862915	-7.3225379	5.83893204	70.71447754
1308	65.10150909	323.1684265	150.8235016	-7.78908253	5.64249229	71.87153625
1309	67.39100647	321.62146	152.3744659	-6.78232813	4.09552813	71.57611847
1310	69.23738098	320.5901794	158.8736877	-4.81792974	3.99730825	71.05913544
1311	68.05570221	319.485199	164.9297791	-5.08803415	4.51296282	70.76371765
1312	67.76028442	320.0745239	163.4526825	-5.82468367	5.81437683	71.50226593
1313	68.05570221	320.0745239	153.8515625	-6.78232813	5.86348677	71.7484436
1314	70.71447754	321.0321655	147.5738983	-6.09478855	5.54427195	72.21619415
1315	71.37917328	321.9898071	146.7614899	-3.90939546	4.7585125	72.70855713
1316	71.60073853	323.3894348	150.4542389	-1.74855697	5.42149734	74.16103363
1317	70.86219025	324.6417236	153.8515625	-1.0855726	6.62469101	75.02267456
1318	70.93604279	326.7780151	155.3286591	-0.5699181	8.02432537	76.10588074
1319	70.41905975	324.4207459	152.8175812	-1.0119077	8.26987457	76.91828918
1320	71.7484436	320.7374878	151.9313355	-1.3311224	8.68730927	78.39538574
1321	71.89615631	317.7908936	151.9313355	-1.42934239	8.83463955	78.54309082
1322	71.89615631	318.0855713	151.9313355	-2.95175099	8.44175911	78.05072784
1323	70.640625	315.6546021	150.0849609	-6.4140029	6.37914133	78.05072784
1324	68.79425049	312.6343384	149.1248474	-7.73997211	3.99730825	79.35549927
1325	65.84005737	309.3930969	148.0908814	-4.54782486	2.74500442	78.83851624
1326	66.87402344	306.2991638	148.4601593	0.51050115	3.92364335	77.28755951
1327	68.9419632	304.4575501	147.2046204	1.76280534	5.54427195	77.16447449
1328	70.640625	308.1407776	147.943161	-1.72400188	6.62469101	78.34614563
1329	69.16352844	309.7614136	147.5738983	-4.35138559	7.85244036	78.41999817
1330	68.57268524	310.0560913	148.0908814	-3.90939546	9.32573891	77.92763519
1331	67.16944885	307.2568054	144.8412628	-2.19054651	9.03107929	77.43527222
1332	68.05570221	307.9934692	143.0687561	-1.99410701	7.87699509	76.62286377
1333	68.05570221	309.9824219	143.3641663	-3.63929057	5.98626184	76.08126831
1334	69.53279877	311.6030579	145.5798187	-4.13039017	4.09552813	78.02610779
1335	71.08375549	309.2457581	146.7614899	-4.25316525	2.52400947	80.34022522
1336	73.96408844	306.0045166	145.8013763	-4.1795001	3.16243911	81.20186615
1337	73.96408844	303.9418945	142.8471832	-4.81792974	3.97275329	80.63564301
1338	72.93012238	304.3838806	142.1824951	-5.1616993	4.68484783	81.10339355
1339	72.3392868	302.4685974	142.0347748	-5.82468414	5.00406265	81.30033875
1340	72.70855713	303.7945557	141.5916443	-5.87379408	4.73395777	80.09404755
1341	71.30532074	309.6877441	140.3361206	-5.08803463	3.67809367	78.29690552
1342	70.71447754	316.4649353	140.8531036	-4.86703968	3.28521395	77.23832703
1343	71.52687836	315.1389465	142.0347748	-6.14389849	3.08877397	76.52439117
1344	73.96408844	309.2457581	142.7733307	-5.60368872	2.94144416	76.81980896
1345	73.44710541	309.3930969	143.7334442	-4.0321703	3.40798879	78.05072784
1346	71.45302582	317.1278992	144.5458527	-3.6147356	5.37238741	79.70014954
1347	68.20341492	320.2955017	143.3641663	-4.69515467	7.38589573	79.7740097
1348	68.9419632	316.7595825	142.1824951	-4.13039017	8.88374901	80.38946533
1349	70.12364197	315.7282715	140.4099731	-2.92719579	8.46631432	81.66960907
1350	71.30532074	321.547821	142.0347748	-3.09908104	7.31223059	82.38354492
1351	71.7484436	317.7908936	142.9210358	-3.93395019	6.94390583	81.17724609
1352	73.00397491	306.151825	142.4040527	-3.27096581	8.58908939	80.85720825
1353	71.60073853	300.3323059	137.0126495	-3.32007575	9.69406414	81.71884918
1354	72.1915741	307.2568054	132.9506378	-3.34463096	9.42395878	82.70358276

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1296	60.86716461
1297	61.87651443
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1299	61.28567886
1300	62.49197006
1301	64.33834076
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1304	65.3476944
1305	65.15074921
1306	64.41220093
1307	64.6583786
1308	67.36639404
1309	69.63127136
1310	70.56677246
1311	70.51753235
1312	71.64997101
1313	72.53623199
1314	73.74252319
1315	74.53031158
1316	75.29347992
1317	74.92420197
1318	74.30874634
1319	73.96408844
1320	74.25951385
1321	73.61943817
1322	73.12706757
1323	72.65932465
1324	71.6007309
1325	70.19749451
1326	70.78833008
1327	71.67459106
1328	71.69921112
1329	71.18222809
1330	70.7390976
1331	69.80360413
1332	70.27134705
1333	71.7484436
1334	73.93947601
1335	74.82572937
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1337	74.25950623
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1339	76.62286377
1340	78.09996033
1341	77.87840271
1342	77.70606995
1343	78.05072784
1344	78.49385071
1345	78.00148773
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1348	77.01676178
1349	77.21370697
1350	77.70606995
1351	77.85378265
1352	77.3860321
1353	76.25359344
1354	76.49977112

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1355								.008490	14.65	69.68	-9.29	83.12	-15.33	92.35
1356								.008500	15.39	71.23	-9.95	86.08	-15.47	90.80
1357								.008510	15.46	69.39	-7.59	85.41	-14.96	92.72
1358								.008520	15.32	68.79	-2.58	83.93	-15.77	91.98
1359								.008530	12.37	67.61	-.52	83.49	-14.08	91.98
1360								.008540	10.97	65.84	-.59	86.15	-12.23	92.87
1361								.008550	10.38	62.00	-2.95	86.67	-11.35	94.57
1362								.008560	12.22	62.44	-3.54	86.37	-12.68	92.72
1363								.008570	13.62	65.99	-.15	85.49	-11.20	91.76
1364								.008580	14.51	69.16	5.37	87.11	-8.48	92.35
1365								.008590	13.55	67.46	4.05	86.96	-7.00	94.20
1366								.008600	14.06	65.40	-1.92	90.51	-9.95	93.17
1367								.008610	14.95	64.66	-4.72	90.36	-11.57	92.28
1368								.008620	13.40	65.84	.29	89.18	-11.42	91.17
1369								.008630	9.87	65.32	3.46	87.55	-9.73	90.88
1370								.008640	10.31	65.25	1.76	88.44	-11.05	91.91
1371								.008650	14.14	65.32	-.74	90.73	-12.53	94.50
1372								.008660	16.94	65.40	.88	93.61	-12.97	94.50
1373								.008670	13.62	63.03	1.76	92.13	-10.91	92.43
1374								.008680	9.42	63.18	.95	89.62	-8.26	90.66
1375								.008690	7.51	65.62	-.01	87.26	-6.34	89.99
1376								.008700	10.38	68.35	1.62	84.01	-8.26	87.26
1377								.008710	13.03	67.17	2.13	81.05	-9.88	87.63
1378								.008720	14.60	66.28	2.28	82.53	-9.80	90.29
1379								.008730	13.77	66.80	3.09	86.52	-7.52	91.69
1380								.008740	11.19	68.35	6.77	89.18	-5.97	91.54
1381								.008750	8.47	66.58	7.95	86.96	-5.46	94.13
1382								.008760	10.01	65.54	6.77	82.90	-7.67	94.20
1383								.008770	11.78	65.25	4.19	78.84	-8.11	91.25
1384								.008780	11.71	66.36	3.97	78.62	-7.00	88.29
1385								.008790	8.17	67.46	5.74	80.32	-5.75	89.77
1386								.008800	5.00	68.42	7.51	80.02	-8.84	89.47
1387								.008810	5.96	67.61	7.36	77.66	-10.69	87.26
1388								.008820	11.27	67.39	7.14	77.80	-9.43	84.38
1389								.008830	14.60	67.46	6.04	78.91	-4.13	84.30
1390								.008840	15.39	66.95	4.71	76.18	-1.85	83.27
1391								.008850	14.29	62.07	2.50	69.90	-1.92	83.27
1392								.008860	15.02	59.93	3.09	68.42	-3.39	84.08
1393								.008870	14.21	62.22	3.53	70.05	-3.98	85.71
1394								.008880	14.36	66.36	3.16	70.86	-6.49	83.42
1395								.008890	14.29	65.25	2.20	67.69	-8.48	80.91
1396								.008900	15.69	63.18	2.94	66.43	-8.33	80.68
1397								.008910	15.91	61.41	3.46	67.76	-6.19	82.31
1398								.008920	16.79	62.22	2.28	68.06	-6.93	81.20
1399								.008930	16.13	62.37	1.10	67.02	-7.59	79.58
1400								.008940	16.35	63.18	2.28	67.91	-8.62	79.36
1401								.008950	15.10	62.52	4.49	70.57	-7.67	83.42
1402								.008960	13.25	61.78	4.49	69.68	-6.86	85.78
1403								.008970	10.90	59.05	.29	65.40	-5.68	84.23
1404								.008980	10.90	59.78	-1.04	66.36	-5.38	79.28
1405								.008990	9.13	60.67	.29	69.46	-3.54	77.51
1406								.009000	8.61	62.00	3.31	68.42	-2.88	77.73
1407								.009010	10.01	64.22	5.08	65.40	-1.99	79.87
1408								.009020	12.06	66.58	5.59	66.94	-1.33	80.68
1409								.009030	9.87	66.36	3.83	74.70	-.15	81.64
1410								.009040	6.77	66.14	3.24	75.59	-1.55	81.64
1411								.009050	7.07	66.06	3.60	71.31	-4.72	81.35
1412								.009060	11.56	65.10	5.37	70.35	-5.24	79.72
1413								.009070	14.88	62.44	5.15	73.15	.58	79.43

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1355	18.12	76.77	2.57	80.39	8.39	71.60	.008490	300.33	137.01	-3.32	81.72	9.69	76.25	
1356	17.67	77.36	.14	79.95	10.46	72.19	.008500	307.26	132.95	-3.34	82.70	9.42	76.50	
1357	16.20	77.88	.29	79.28	10.75	73.96	.008510	312.19	135.02	-2.36	82.51	9.08	77.04	
1358	17.53	79.06	2.06	77.58	13.11	75.22	.008520	308.14	139.08	-1.01	81.57	10.90	77.29	
1359	18.85	79.36	5.15	78.10	13.40	71.75	.008530	301.66	137.68	-.74	81.03	12.47	76.40	
1360	20.40	81.13	3.24	78.17	14.73	69.24	.008540	303.35	136.27	-.62	81.62	12.79	76.18	
1361	18.93	81.57	.07	79.65	15.46	67.91	.008550	308.36	137.38	-1.31	81.08	11.49	76.38	
1362	16.79	81.20	-2.29	79.28	15.91	67.91	.008560	311.31	138.56	-1.33	80.51	10.14	76.13	
1363	12.81	77.88	-.30	79.28	13.55	66.73	.008570	309.61	133.25	.76	81.08	8.69	74.63	
1364	12.52	76.92	3.09	79.87	12.30	69.16	.008580	309.84	128.96	3.80	82.88	9.30	75.32	
1365	14.73	77.51	6.70	82.61	11.19	71.60	.008590	309.69	128.15	3.53	83.54	10.87	77.24	
1366	19.22	80.39	6.26	82.53	11.34	71.60	.008600	309.32	130.81	.73	83.02	12.27	78.17	
1367	19.15	79.95	4.66	84.01	9.94	70.12	.008610	307.11	131.03	-.45	82.43	11.31	78.03	
1368	17.09	78.54	.44	85.41	9.50	71.16	.008620	306.00	130.44	.76	82.06	9.01	78.37	
1369	15.61	76.18	-2.07	86.37	10.53	71.82	.008630	305.86	130.96	1.20	81.25	8.02	78.12	
1370	16.50	74.33	-1.04	84.97	14.43	71.90	.008640	307.40	132.29	.34	81.87	9.96	77.07	
1371	12.08	71.53	4.27	84.45	17.01	67.83	.008650	309.39	134.35	.29	83.52	11.12	74.60	
1372	4.56	71.75	7.29	83.57	17.23	64.29	.008660	312.86	141.59	1.62	84.50	9.69	73.20	
1373	2.57	72.78	6.33	82.38	13.92	63.48	.008670	313.52	142.33	1.49	82.53	7.61	72.88	
1374	9.79	74.11	5.59	80.46	11.12	64.66	.008680	314.77	135.09	.71	81.15	8.83	73.08	
1375	15.54	74.33	8.61	80.54	9.42	62.30	.008690	312.19	125.20	.39	80.96	11.19	72.39	
1376	14.36	74.55	10.68	80.17	14.21	60.08	.008700	306.96	121.36	1.25	79.87	13.08	71.60	
1377	11.93	74.92	10.60	80.91	19.15	58.90	.008710	301.14	121.28	1.76	78.62	13.89	71.58	
1378	14.65	75.15	8.69	80.24	21.43	59.86	.008720	302.62	118.11	2.43	79.70	14.92	71.75	
1379	17.09	73.45	10.31	79.72	17.09	60.23	.008730	311.09	113.08	3.11	81.67	14.83	71.13	
1380	17.23	73.00	10.97	77.80	13.84	62.00	.008740	315.73	114.56	4.00	83.02	14.02	70.94	
1381	14.73	72.63	11.71	77.36	12.00	61.26	.008750	311.01	120.62	3.65	82.56	12.81	70.42	
1382	13.25	73.52	12.22	77.66	14.43	59.86	.008760	306.45	123.87	3.04	80.88	13.30	70.35	
1383	10.09	72.12	15.02	81.20	17.09	58.90	.008770	306.00	119.58	2.62	78.44	14.06	70.74	
1384	10.38	72.27	16.27	83.20	19.00	60.52	.008780	308.80	118.33	2.89	77.76	15.22	71.99	
1385	11.04	71.31	17.23	83.57	18.12	59.71	.008790	307.40	118.55	2.72	79.18	15.46	71.53	
1386	11.63	70.94	15.61	81.72	19.81	58.45	.008800	306.30	118.11	1.22	79.31	15.69	70.37	
1387	11.12	68.79	16.35	82.24	25.19	56.53	.008810	307.33	115.15	.88	77.51	17.55	69.19	
1388	14.29	69.09	16.72	82.38	29.24	54.61	.008820	309.54	114.19	2.99	76.52	20.06	68.70	
1389	16.35	70.49	16.57	81.13	25.85	53.73	.008830	309.17	113.90	5.57	76.89	19.59	68.45	
1390	16.27	72.56	16.20	79.21	21.73	56.83	.008840	308.73	113.45	6.08	75.47	18.07	69.53	
1391	13.55	71.90	19.44	80.17	20.47	57.72	.008850	311.75	112.71	4.95	71.75	17.82	69.93	
1392	12.67	70.12	22.54	79.87	22.98	57.05	.008860	314.77	113.45	4.91	70.81	19.39	69.02	
1393	12.89	67.98	22.68	76.18	22.98	57.42	.008870	310.50	112.64	4.59	72.66	19.52	67.19	
1394	14.14	68.20	18.93	72.86	22.76	60.45	.008880	307.63	112.49	3.68	73.55	18.61	67.17	
1395	13.40	67.69	17.67	73.89	21.51	58.01	.008890	309.25	109.54	2.67	71.28	17.53	66.53	
1396	12.30	68.28	17.38	76.48	22.39	54.10	.008900	312.71	105.85	3.43	70.10	17.36	66.28	
1397	11.04	68.35	20.18	78.54	22.54	51.73	.008910	311.31	99.20	4.39	70.49	17.92	66.21	
1398	12.67	68.42	22.39	78.47	22.98	51.73	.008920	309.69	96.32	4.05	70.49	19.34	66.21	
1399	13.40	66.43	23.64	78.69	22.98	50.77	.008930	310.50	100.45	3.21	69.66	20.01	65.30	
1400	13.18	66.14	22.68	78.84	24.01	54.98	.008940	311.90	104.74	3.33	70.15	19.96	66.65	
1401	11.93	66.36	21.21	80.76	21.80	58.60	.008950	309.91	102.89	3.97	72.17	18.31	68.57	
1402	12.52	67.02	17.97	80.61	20.99	60.23	.008960	306.45	85.02	3.63	72.41	17.16	69.29	
1403	13.25	65.54	18.34	81.64	20.69	57.27	.008970	304.38	31.99	1.84	69.56	17.43	68.15	
1404	17.01	65.69	20.55	82.01	22.02	56.61	.008980	306.45	-30.49	1.49	68.47	19.86	68.10	
1405	18.71	66.21	20.92	82.53	20.99	60.60	.008990	307.40	-21.55	1.96	69.21	20.20	69.78	
1406	19.96	70.12	15.91	82.24	20.25	72.63	.009000	310.20	58.36	3.02	69.39	18.71	75.00	
1407	17.67	72.71	14.73	82.61	20.33	78.69	.009010	311.90	104.37	4.37	69.83	17.58	78.00	
1408	17.38	73.52	19.22	81.05	22.46	68.65	.009020	313.22	90.04	5.45	72.07	19.69	74.41	
1409	17.82	71.90	24.38	78.10	24.82	54.02	.009030	313.08	76.89	4.51	74.23	22.34	68.01	
1410	19.88	73.08	22.39	73.82	25.41	52.03	.009040	312.71	90.04	2.82	74.46	22.56	66.31	
1411	19.00	73.08	19.59	73.96	22.83	56.98	.009050	312.27	99.86	1.98	72.91	20.47	68.01	
1412	19.81	72.27	18.12	75.44	22.09	60.01	.009060	313.37	93.81	3.90	71.72	20.01	69.24	
1413	20.47	69.39	18.56	77.88	22.24	58.09	.009070	312.05	88.86	6.87	71.67	20.42	68.45	

	AC	AD	AE	AF	AG	AH
1355	0.0135	15.46448421	-7.59264231	-14.95913601	16.20113373	0.28950629
1356	0.01351	15.31715393	-2.58342648	-15.76945114	17.52710152	2.05746484
1357	0.01352	12.37055683	-0.52080804	-14.07515717	18.85307121	5.15139246
1358	0.01353	10.97092247	-0.594473	-12.23353386	20.40003586	3.23610401
1359	0.01354	10.38160324	-2.95175099	-11.34955406	18.92673683	0.06851147
1360	0.01355	12.22322655	-3.5410707	-12.67552376	16.79045296	-2.28876662
1361	0.01356	13.62286091	-0.15248336	-11.20222473	12.81254578	-0.29981324
1362	0.01357	14.50683975	5.37238741	-8.47662163	12.51788616	3.08877397
1363	0.01358	13.54919529	4.04641819	-7.00332308	14.7278347	6.69835615
1364	0.01359	14.06484985	-1.92044199	-9.94992065	19.22139549	6.25636673
1365	0.0136	14.94882965	-4.71970987	-11.57054901	19.14773178	4.85673285
1366	0.01361	13.40186596	0.28950629	-11.42321968	17.08511353	0.43663618
1367	0.01362	9.86594868	3.45709872	-9.7289257	15.61181355	-2.06777191
1368	0.01363	10.30793858	1.7628051	-11.05489445	16.49579239	-1.03646266
1369	0.01364	14.13851547	-0.74180287	-12.52819347	12.07589722	4.26741314
1370	0.01365	16.93778229	0.87882584	-12.97018337	4.56207275	7.28767586
1371	0.01366	13.62286091	1.7628051	-10.90756512	2.5731194	6.33003139
1372	0.01367	9.42395878	0.95249075	-8.25562668	9.79228401	5.59338188
1373	0.01368	7.50867033	-0.00515347	-6.34033823	15.53814888	8.6136446
1374	0.01369	10.38160324	1.61547518	-8.25562668	14.35951042	10.67626266
1375	0.0137	13.03354073	2.13112974	-9.87625599	11.92856693	10.60259819
1376	0.01371	14.80149937	2.27845979	-9.80259037	14.65417004	8.68730927
1377	0.01372	13.77019024	3.08877397	-7.51897764	17.08511353	10.30793858
1378	0.01373	11.19191742	6.77202129	-5.97201347	17.23244286	10.97092247
1379	0.01374	8.46631432	7.95066023	-5.45635891	14.7278347	11.70757198
1380	0.01375	10.01327896	6.77202129	-7.66630745	13.25453568	12.22322655
1381	0.01376	11.78123665	4.193748	-8.10829735	10.08694363	15.02249432
1382	0.01377	11.70757198	3.97275329	-7.00332308	10.38160324	16.27479935
1383	0.01378	8.1716547	5.74071169	-5.751019	11.04458809	17.23244286
1384	0.01379	5.00406265	7.50867033	-8.84494591	11.63390732	15.61181355
1385	0.0138	5.96170664	7.36134052	-10.68657017	11.11625275	16.34846306
1386	0.01381	11.26558208	7.14034557	-9.43426609	14.2858448	16.71678734
1387	0.01382	14.80149937	6.03537178	-4.13039017	16.34846306	16.56945801
1388	0.01383	15.39081955	4.70940256	-1.84677696	16.27479935	16.20113373
1389	0.01384	14.2858448	2.4994545	-1.92044199	13.54919529	19.44239044
1390	0.01385	15.02249432	3.08877397	-3.39374065	12.66521645	22.53631783
1391	0.01386	14.21218014	3.53076363	-3.98306036	12.8862114	22.68364906
1392	0.01387	14.35951042	3.16243887	-6.48766804	14.13851547	18.92673683
1393	0.01388	14.2858448	2.20479465	-8.47662163	13.40186596	17.67443275
1394	0.01389	15.68547916	2.94144416	-8.32929134	12.29689121	17.37977219
1395	0.0139	15.90647411	3.45709872	-6.19300842	11.04458809	20.17904091
1396	0.01391	16.79045296	2.27845979	-6.92965794	12.66521645	22.38898849
1397	0.01392	16.12746811	1.09982061	-7.59264231	13.40186596	23.64129257
1398	0.01393	16.34846306	2.27845979	-8.62395191	13.18087101	22.68364906
1399	0.01394	15.09615898	4.48840809	-7.66630745	11.92856693	21.21035004
1400	0.01395	13.25453568	4.48840809	-6.85599279	12.51788616	17.96909142
1401	0.01396	10.8972578	0.28950629	-5.67735386	13.25453568	18.3374176
1402	0.01397	10.8972578	-1.03646266	-5.38269424	17.01144791	20.54736519
1403	0.01398	9.12929916	0.28950629	-3.5410707	18.70574188	20.91568947
1404	0.01399	8.6136446	3.30976892	-2.87808609	19.95804596	15.90647411
1405	0.014	10.01327896	5.07772732	-1.99410689	17.67443275	14.7278347
1406	0.01401	12.07589722	5.59338188	-1.3311224	17.37977219	19.22139549
1407	0.01402	9.86594868	3.82542348	-0.15248336	17.82176208	24.37794113
1408	0.01403	6.77202129	3.23610401	-1.55211723	19.88438034	22.38898849
1409	0.01404	7.06668091	3.60442853	-4.71970987	19.00040054	19.58972168
1410	0.01405	11.56024265	5.37238741	-5.23536444	19.81071472	18.11642265
1411	0.01406	14.87516499	5.15139246	0.58416605	20.47369957	18.55841255
1412	0.01407	15.24348927	3.30976892	3.08877397	23.12563705	16.79045296
1413	0.01408	13.25453568	0.06851147	0.73149592	22.09432793	14.58050442

	AI	AJ	AK	AL	AM	AN
1355	10.74992752	69.38509369	85.41159058	92.72322083	77.87839508	79.2816391
1356	13.10720634	68.79425049	83.93449402	91.98467255	79.06007385	77.58297729
1357	13.40186596	67.61257172	83.49136353	91.98467255	79.35549927	78.09996033
1358	14.7278347	65.84005737	86.15013885	92.87093353	81.12801361	78.1738205
1359	15.46448421	61.99960709	86.66712189	94.56959534	81.5711441	79.65091705
1360	15.90647411	62.44273376	86.3717041	92.72322083	81.20186615	79.2816391
1361	13.54919529	65.98777008	85.48545074	91.7631073	77.87839508	79.2816391
1362	12.29689121	69.16352844	87.11025238	92.3539505	76.91828918	79.8724823
1363	11.19191742	67.46486664	88.95662689	94.20031738	77.50912476	82.60511017
1364	11.3392477	65.39692688	90.50757599	93.16635132	80.38946533	82.53125763
1365	9.93961334	64.6583786	90.35987091	92.28009033	79.94633484	84.00835419
1366	9.49762344	65.84005737	89.17819214	91.17227173	78.54309082	85.41159058
1367	10.52893353	65.32307434	87.55338287	90.87685394	76.17973328	86.3717041
1368	14.43317509	65.2492218	88.43964386	91.91082001	74.33336639	84.96846771
1369	17.01144791	65.32307434	90.72914124	94.4957428	71.52687836	84.45147705
1370	17.23244286	65.39692688	93.60948181	94.4957428	71.7484436	83.56522369
1371	13.91752052	63.03357315	92.13238525	92.42780304	72.7824173	82.38354492
1372	11.11825275	63.18128204	89.62132263	90.6552887	74.11180115	80.46331787
1373	9.42395878	65.61849213	87.25796509	89.99059296	74.33336639	80.53717041
1374	14.21218014	68.35112	84.00835419	87.25796509	74.55493164	80.16790009
1375	19.14773178	67.16944885	81.05415344	87.62723541	74.92420197	80.90644836
1376	21.43134499	66.28318787	82.53125763	90.28601074	75.14576721	80.24175262
1377	17.08511353	66.8001709	86.51941681	91.68925476	73.44710541	79.72476959
1378	13.84385586	68.35112	89.17819214	91.54154205	73.00397491	77.80454254
1379	12.0022316	66.57860565	86.9625473	94.12646484	72.63470459	77.36141205
1380	14.43317509	65.54463959	82.90052795	94.20031738	73.52096558	77.65683746
1381	17.08511353	65.2492218	78.83850861	91.24612427	72.11772156	81.20186615
1382	19.00040054	66.35704041	78.61694336	88.29193115	72.26542664	83.19594574
1383	18.11642265	67.46486664	80.31560516	89.76902771	71.30532074	83.56522369
1384	19.81071472	68.42498016	80.02018738	89.47360992	70.93604279	81.71884918
1385	25.18825722	67.61257172	77.65683746	87.25796509	68.79425049	82.23583221
1386	29.23982811	67.39100647	77.80454254	84.37762451	69.08966827	82.38354492
1387	25.85124016	67.46486664	78.91236877	84.30377197	70.49291229	81.12801361
1388	21.72600365	66.94788361	76.17973328	83.26980591	72.56085205	79.20778656
1389	20.47369957	62.07345963	69.90207672	83.26980591	71.89615631	80.16790009
1390	22.97830772	59.93167114	68.42498016	84.08220673	70.12364197	79.8724823
1391	22.97830772	62.22117233	70.0497818	85.70701599	67.98184967	76.17973328
1392	22.75731277	66.35704041	70.86219025	83.41751099	68.20341492	72.85626984
1393	21.5050087	65.2492218	67.68643188	80.90644836	67.68643188	73.8902359
1394	22.38898849	63.18128204	66.43090057	80.68488312	68.27726746	76.47515869
1395	22.53631783	61.4087677	67.76028442	82.30969238	68.35112	78.54309082
1396	22.97830772	62.22117233	68.05570221	81.20186615	68.42498016	78.46923828
1397	22.97830772	62.36888123	67.02173615	79.57705688	66.43090057	78.69080353
1398	24.00961685	63.18128204	67.90799713	79.35549927	66.13547516	78.83850861
1399	21.79966927	62.51659012	70.56676483	83.41751099	66.35704041	80.75873566
1400	20.98935509	61.77804184	69.68051147	85.78086853	67.02173615	80.61103058
1401	20.69469452	59.04541016	65.39692688	84.2299118	65.54463959	81.64499664
1402	22.02066422	59.78396225	66.35704041	79.2816391	65.69234467	82.01426697
1403	20.98935509	60.67021942	69.45894623	77.50912476	66.20933533	82.53125763
1404	20.25270462	61.99960709	68.42498016	77.73069	70.12364197	82.23583221
1405	20.32637024	64.21524811	65.39692688	79.8724823	72.70855713	82.60511017
1406	22.46265411	66.57860565	68.9419632	80.68488312	73.52096558	81.05415344
1407	24.81993103	66.35704041	74.70263672	81.64499664	71.89615631	78.09996033
1408	25.40925026	66.13547516	75.58889771	81.64499664	73.07783508	73.81638336
1409	22.83097839	66.06162262	71.30532074	81.34957886	73.07783508	73.96408844
1410	22.09432793	65.10150909	70.34520721	79.72476959	72.26542664	75.441185
1411	22.24165916	62.44273376	73.15168762	79.42935181	69.38509369	77.87839508
1412	21.79966927	61.92575073	74.99806213	77.58297729	68.64654541	78.46923828
1413	20.10537529	61.99960709	72.3392868	77.06599426	69.16352844	78.61694336

	AO	AP	AQ	AR	AS	AT
1355	73.96408844	312.1923523	135.01857	-2.36243129	9.08018875	82.50663757
1356	75.21962738	308.1407776	139.0805817	-1.01190794	10.8972578	81.57113647
1357	71.7484436	301.6582642	137.6773377	-0.74180281	12.4687767	81.02953339
1358	69.23738098	303.3525696	136.2741089	-0.61902815	12.78799152	81.62037659
1359	67.90799713	308.3617859	137.3819275	-1.30656731	11.48657703	81.0787735
1360	67.90799713	311.3083801	138.5635986	-1.33112264	10.13605309	80.51255035
1361	66.72631836	309.6140747	133.246048	0.75605094	8.68730927	81.0787735
1362	69.16352844	309.835083	128.9624786	3.80086851	9.3011837	82.8759079
1363	71.60073853	309.6877441	128.1500702	3.53076339	10.8727026	83.54060364
1364	71.60073853	309.3194275	130.8088379	0.73149574	12.27233696	83.02362061
1365	70.12364197	307.1094666	131.0304108	-0.44714308	11.3146925	82.4327774
1366	71.15760803	306.0045166	130.4395752	0.75605083	9.00652409	82.06350708
1367	71.82230377	305.8571777	130.9565582	1.1980406	8.02432537	81.25110626
1368	71.89615631	307.4041443	132.2859345	0.3386164	9.96416855	81.86656189
1369	67.83413696	309.3930969	134.3538818	0.28950638	11.11825275	83.51598358
1370	64.28910828	312.8553467	141.5916443	1.61547494	9.69406414	84.50071716
1371	63.47670364	313.5183411	142.3302002	1.49270034	7.60689068	82.53125
1372	64.6583786	314.7706299	135.0924225	0.70694095	8.83463955	81.15263367
1373	62.29502487	312.1923523	125.1958771	0.38772622	11.19191742	80.95568085
1374	60.07938004	306.9621582	121.355423	1.24715054	13.08265114	79.8724823
1375	58.89770126	301.1426086	121.2815704	1.76280487	13.89296532	78.61694336
1376	59.85781479	302.6159058	118.1058121	2.42578959	14.92427444	79.70014954
1377	60.22708893	311.0874023	113.0836792	3.11332893	14.82605553	81.6696167
1378	61.99960709	315.7282715	114.5607758	3.99730849	14.01574039	83.02362061
1379	61.26105881	311.0137329	120.6168747	3.65353847	12.81254578	82.55587006
1380	59.85781479	306.4465027	123.8664856	3.03966427	13.30364609	80.88182831
1381	58.89770126	306.0045166	119.5829086	2.6222291	14.06485081	78.44461823
1382	60.52251053	308.803772	118.3273773	2.89233398	15.21893406	77.75530243
1383	59.7101059	307.4041443	118.5489349	2.72044921	15.46448421	79.1831665
1384	58.45457458	306.2991638	118.1058121	1.22259569	15.68547821	79.30625916
1385	56.53434753	307.3304749	115.151619	0.87882566	17.55165863	77.50912476
1386	54.61412048	309.5404358	114.1915054	2.99055386	20.08082008	76.52439117
1387	53.72786331	309.1720886	113.89608	5.56882715	19.58971977	76.89366913
1388	56.82976532	308.7301025	113.4529572	6.08448172	18.06731224	75.46580505
1389	57.71602631	311.7503662	112.7144089	4.95495224	17.82176208	71.7484436
1390	57.05133057	314.7706299	113.4529572	4.90584278	19.39328003	70.81295013
1391	57.42060471	310.4980774	112.6405487	4.58662796	19.51605606	72.65932465
1392	60.44865417	307.6251221	112.4928436	3.67809367	18.60752106	73.545578
1393	58.01144409	309.2457581	109.5386505	2.67133927	17.52710342	71.28070068
1394	54.09713745	312.7080078	105.8459015	3.43254399	17.35521698	70.09902191
1395	51.73378372	311.3083801	99.19896698	4.39018822	17.91998291	70.49291229
1396	51.73378372	309.6877441	96.3186264	4.04641819	19.34417152	70.49291229
1397	50.7736702	310.4980774	100.4544983	3.21154881	20.00715637	69.65589142
1398	54.98339462	311.8977051	104.7380829	3.33432364	19.95804596	70.14826202
1399	58.60228348	309.9087524	102.8917084	3.97275329	18.3128624	72.16695404
1400	60.22708893	306.4465027	85.01883698	3.62898374	17.15877724	72.41313934
1401	57.27289581	304.3838806	31.99105644	1.83647013	17.4288826	69.55741882
1402	56.60820389	306.4465027	-30.49014664	1.49270034	19.85982513	68.47421265
1403	60.59636307	307.4041443	-21.55370903	1.95924497	20.20359612	69.21276093
1404	72.63470459	310.2033997	58.35723877	3.01510906	18.70574188	69.38509369
1405	78.69080353	311.8977051	104.3688049	4.36563301	17.57621193	69.82821655
1406	68.64654541	313.2236633	90.04096985	5.44605207	19.6879406	72.06848145
1407	54.0232811	313.076355	76.89480591	4.51296282	22.33987808	74.2348938
1408	52.02920151	312.7080078	90.04096985	2.81866932	22.56087303	74.45645905
1409	56.97747803	312.2660217	99.86366272	1.98379982	20.47369957	72.90550995
1410	60.00552368	313.3710022	93.80756378	3.89908862	20.00715446	71.72383118
1411	58.08530045	312.045044	88.85929108	6.87024117	20.42459106	71.67459106
1412	56.53434753	312.6343384	94.47225952	7.21401072	20.57192039	71.50226593
1413	57.42060471	313.9603272	97.20488739	4.68484783	18.92673492	70.46829224

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1355	77.04137421
1356	77.28755951
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1361	74.62878418
1362	75.31809998
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1390	69.01581573
1391	67.19406128
1392	67.16944885
1393	66.52937317
1394	66.28318787
1395	66.20933533
1396	66.20933533
1397	65.29846191
1398	66.65245819
1399	68.57268524
1400	69.28662109
1401	68.1541748
1402	68.10493469
1403	69.77898407
1404	74.99806213
1405	78.00148773
1406	74.40721893
1407	68.00646973
1408	66.30780792
1409	68.00646973
1410	69.23738098
1411	68.44960022
1412	67.88337708
1413	68.40036011

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1414								.009080	15.24	61.93	3.31	75.00	3.09	77.58
1415								.009090	13.25	62.00	.07	72.34	.73	77.07
1416								.009100	12.08	61.63	-1.18	71.60	-2.51	76.99
1417								.009110	10.97	60.52	1.62	75.44	-1.18	78.54
1418								.009120	11.56	61.11	5.00	79.95	.51	78.84
1419								.009130	12.15	61.26	3.68	79.13	.81	77.88
1420								.009140	12.81	61.56	2.35	76.11	-.15	76.25
1421								.009150	15.32	61.63	6.04	75.59	.66	76.62
1422								.009160	23.13	62.74	11.78	75.88	.95	76.62
1423								.009170	26.66	62.30	12.96	72.63	1.47	77.73
1424								.009180	20.62	60.82	11.27	70.71	.81	77.95
1425								.009190	11.71	58.90	8.76	72.93	1.91	77.73
1426								.009200	9.87	59.49	6.18	76.18	.58	74.85
1427								.009210	9.94	61.41	1.84	75.29	.58	74.85
1428								.009220	9.42	63.99	3.83	75.74	1.03	76.11
1429								.009230	7.66	63.99	10.09	78.76	3.60	77.58
1430								.009240	7.88	63.18	14.88	80.17	3.97	74.78
1431								.009250	7.95	62.15	12.08	76.48	4.19	71.90
1432								.009260	8.83	62.15	7.66	75.15	3.53	70.71
1433								.009270	10.97	61.70	7.14	78.47	5.23	72.41
1434								.009280	12.44	62.44	9.87	81.05	5.89	73.37
1435								.009290	10.23	62.52	11.19	78.76	6.77	74.33
1436								.009300	7.95	62.00	12.30	78.40	4.86	72.71
1437								.009310	8.10	61.19	14.58	81.72	5.15	71.82
1438								.009320	10.01	60.89	18.41	84.89	5.30	69.75
1439								.009330	10.31	59.78	19.44	82.83	6.18	68.65
1440								.009340	8.69	58.90	17.23	78.54	6.26	65.99
1441								.009350	3.46	58.16	15.24	75.74	9.28	63.99
1442								.009360	-3.03	57.64	16.20	76.48	11.49	62.89
1443								.009370	-7.67	58.31	17.16	77.73	11.12	64.44
1444								.009380	-4.87	60.23	16.50	78.40	10.01	65.99
1445								.009390	1.25	60.82	15.32	78.10	10.97	65.91
1446								.009400	5.15	60.60	13.99	75.52	9.35	63.40
1447								.009410	5.15	59.05	13.55	71.97	7.51	64.29
1448								.009420	9.28	58.90	14.58	71.23	7.95	67.24
1449								.009430	13.11	58.75	16.72	73.23	11.19	69.83
1450								.009440	13.03	60.97	19.59	74.63	10.31	70.42
1451								.009450	8.69	62.59	17.82	72.78	8.17	73.08
1452								.009460	5.30	62.59	15.32	71.31	5.45	72.49
1453								.009470	6.33	60.15	15.02	71.01	6.48	70.64
1454								.009480	11.27	58.97	15.61	71.75	7.14	68.94
1455								.009490	13.99	60.08	13.33	72.12	8.39	71.16
1456								.009500	13.48	61.26	11.27	72.19	7.21	71.90
1457								.009510	10.60	60.52	10.01	71.08	8.10	71.53
1458								.009520	8.39	61.19	10.23	70.27	9.28	68.79
1459								.009530	7.95	62.81	10.68	70.27	10.23	70.27
1460								.009540	9.20	62.59	10.90	71.82	7.51	71.90
1461								.009550	10.46	58.82	9.06	73.96	5.59	71.45
1462								.009560	10.23	56.31	6.99	74.70	5.89	68.65
1463								.009570	8.39	56.83	6.55	72.71	8.25	69.83
1464								.009580	8.32	58.75	7.51	71.01	6.33	70.64
1465								.009590	9.87	58.45	6.62	70.49	2.87	70.27
1466								.009600	11.49	58.01	4.49	71.45	-.08	67.83
1467								.009610	10.75	58.60	4.27	71.67	1.32	67.69
1468								.009620	11.34	59.78	7.80	70.79	3.16	67.46
1469								.009630	11.85	59.49	10.68	71.01	3.83	66.87
1470								.009640	11.78	59.78	8.10	72.63	.36	66.14
1471								.009650	9.72	59.34	3.83	72.71	-1.77	66.21
1472								.009660	8.98	58.82	2.57	71.08	-.74	66.28

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1414	23.13	68.65	16.79	78.47	21.80	56.53	.009080	312.63	94.47	7.21	71.50	20.57	67.88	
1415	22.09	69.16	14.58	78.62	20.11	57.42	.009090	313.96	97.20	4.68	70.47	18.93	68.40	
1416	19.00	71.45	13.99	78.69	21.73	60.82	.009100	316.02	93.88	2.79	70.07	18.24	70.32	
1417	14.80	70.71	16.64	79.28	22.68	60.60	.009110	312.27	86.50	3.80	71.50	18.04	70.20	
1418	16.13	69.98	19.07	78.17	22.61	61.41	.009120	308.29	82.95	5.69	73.30	19.27	69.85	
1419	19.15	68.79	21.87	77.29	19.22	62.15	.009130	307.04	81.70	5.54	72.76	20.08	69.41	
1420	21.36	69.02	23.57	77.07	17.90	61.85	.009140	309.76	84.50	5.00	71.31	20.94	69.31	
1421	18.26	68.06	23.86	76.03	18.85	57.64	.009150	310.79	90.04	7.34	71.28	20.33	67.24	
1422	15.83	69.68	19.74	72.19	23.27	57.27	.009160	307.40	91.37	11.95	71.75	19.61	66.38	
1423	15.46	69.61	17.82	70.49	24.45	56.98	.009170	304.75	86.94	13.70	70.89	19.25	65.69	
1424	17.09	68.06	19.59	70.79	23.71	56.24	.009180	307.48	87.60	10.90	69.63	20.13	65.03	
1425	17.23	65.69	23.57	70.27	20.77	54.17	.009190	311.75	93.88	7.46	69.85	20.52	63.38	
1426	18.71	65.54	24.60	66.58	19.81	53.58	.009200	315.21	99.64	5.54	70.17	21.04	61.90	
1427	19.81	65.10	23.57	65.54	17.97	51.51	.009210	311.60	97.35	4.12	70.52	20.45	60.72	
1428	21.80	65.69	21.87	67.24	18.12	51.29	.009220	307.99	94.92	4.76	71.95	20.60	61.41	
1429	21.87	65.54	22.02	71.45	18.78	51.81	.009230	308.36	95.73	7.12	73.45	20.89	62.94	
1430	22.09	67.02	21.80	74.70	20.62	53.88	.009240	311.46	98.17	8.91	72.71	21.51	65.20	
1431	20.62	68.20	21.28	76.70	22.61	54.17	.009250	312.63	99.20	8.07	70.17	21.51	66.36	
1432	21.21	69.53	19.52	77.51	26.15	54.17	.009260	310.06	98.76	6.67	69.34	22.29	67.07	
1433	22.39	69.31	20.92	80.32	26.96	52.69	.009270	310.06	100.09	7.78	70.66	23.42	67.44	
1434	25.19	70.79	20.40	78.76	25.19	52.64	.009280	313.08	102.01	9.40	72.29	23.59	67.46	
1435	23.94	71.67	19.96	75.59	23.27	54.98	.009290	313.30	100.53	9.40	71.87	22.39	67.42	
1436	22.24	72.63	21.06	74.26	22.54	59.64	.009300	312.12	99.72	8.37	71.03	21.95	68.84	
1437	19.81	71.31	22.98	77.66	20.47	61.26	.009310	309.39	99.57	9.28	71.58	21.09	70.07	
1438	20.92	70.42	20.47	80.17	21.36	62.22	.009320	308.88	101.12	11.24	71.85	20.92	70.94	
1439	23.49	68.65	17.38	81.35	23.13	63.11	.009330	309.17	100.90	11.98	70.42	21.33	71.03	
1440	26.74	69.83	16.20	80.46	25.34	64.51	.009340	310.06	100.75	10.73	67.81	22.76	71.60	
1441	25.63	71.08	17.97	79.72	25.92	64.07	.009350	310.94	102.30	9.33	65.96	23.17	71.63	
1442	22.54	71.23	18.71	77.36	25.56	65.54	.009360	311.09	104.37	8.22	65.67	22.27	71.38	
1443	19.74	69.83	19.22	76.33	20.69	66.26	.009370	310.57	105.40	6.87	66.82	19.86	70.81	
1444	21.36	71.90	19.15	77.21	17.67	67.69	.009380	309.84	104.22	7.21	68.20	19.39	72.27	
1445	21.43	73.96	19.30	80.02	17.38	67.39	.009390	308.80	102.74	9.18	68.28	19.37	73.79	
1446	22.39	73.74	17.90	79.87	20.18	67.32	.009400	311.82	104.37	9.50	66.50	20.15	73.64	
1447	21.95	71.53	15.54	77.58	20.11	65.77	.009410	314.18	105.62	8.74	65.10	19.20	71.63	
1448	21.28	72.19	11.27	75.44	20.55	66.43	.009420	315.73	105.55	10.60	65.79	17.70	71.35	
1449	17.23	72.49	11.85	76.48	20.69	65.99	.009430	314.92	103.19	13.67	67.27	16.59	71.65	
1450	13.84	72.19	14.73	76.48	20.33	63.03	.009440	314.70	103.41	14.31	68.67	16.30	70.57	
1451	14.29	72.19	14.51	75.15	17.53	58.60	.009450	311.53	106.88	11.56	69.48	15.44	68.65	
1452	18.41	74.11	9.72	72.56	16.64	58.31	.009460	306.15	109.39	8.69	68.79	14.92	68.33	
1453	19.22	74.26	9.87	73.59	15.91	58.90	.009470	302.62	112.05	9.28	67.27	15.00	68.92	
1454	18.63	74.78	13.40	75.37	16.86	59.93	.009480	304.16	120.62	11.34	66.55	16.30	70.03	
1455	16.05	73.67	15.61	75.88	16.50	59.49	.009490	308.36	123.35	11.90	67.78	16.05	69.68	
1456	17.38	72.86	13.25	73.89	16.05	57.49	.009500	310.65	111.16	10.65	68.45	15.56	68.08	
1457	18.71	71.31	12.15	72.78	16.20	55.72	.009510	306.74	94.32	9.57	67.71	15.69	66.60	
1458	20.92	71.90	13.55	71.23	17.75	56.53	.009520	304.53	93.00	9.30	66.75	17.40	66.55	
1459	24.45	71.16	23.71	71.75	18.71	58.01	.009530	305.27	100.90	9.62	67.78	22.29	66.97	
1460	35.87	71.23	37.27	71.90	17.82	58.60	.009540	309.25	106.14	9.20	68.77	30.32	67.24	
1461	46.99	70.27	43.75	73.00	16.13	59.34	.009550	310.79	103.70	8.37	68.08	35.62	67.54	
1462	40.95	68.72	28.58	73.89	15.98	61.93	.009560	312.27	101.12	7.71	66.55	28.50	68.18	
1463	20.84	66.43	7.66	75.96	15.39	61.48	.009570	315.36	102.01	7.73	66.46	14.63	67.96	
1464	14.51	66.80	2.35	76.99	17.38	60.67	.009580	318.45	104.00	7.39	66.80	11.41	68.15	
1465	21.28	67.61	11.34	78.99	19.15	61.26	.009590	318.16	103.19	6.45	66.41	17.26	69.29	
1466	22.17	68.13	16.20	79.95	20.47	63.99	.009600	316.76	104.89	5.30	65.77	19.61	70.69	
1467	14.43	67.61	14.14	80.98	19.30	63.62	.009610	315.88	114.04	5.45	65.99	15.96	70.74	
1468	12.37	68.57	11.93	81.05	19.74	63.48	.009620	318.23	125.42	7.44	66.01	14.68	71.03	
1469	15.32	69.46	15.76	83.20	19.37	62.74	.009630	319.12	118.62	8.79	65.79	16.82	71.80	
1470	17.09	71.08	18.63	84.16	17.97	62.30	.009640	319.93	104.22	6.75	66.18	17.90	72.51	
1471	13.03	71.90	19.15	84.01	14.88	60.82	.009650	319.56	98.76	3.92	66.09	15.69	72.24	
1472	8.91	73.67	17.75	81.13	15.61	60.82	.009660	318.31	99.94	3.60	65.40	14.09	71.87	

	AC	AD	AE	AF	AG	AH
1414	0.01409	12.07589722	-1.18379247	-2.50976157	19.00040054	13.99118519
1415	0.0141	10.97092247	1.61547518	-1.18379247	14.80149937	16.64312363
1416	0.01411	11.56024265	5.00406265	0.51050109	16.12746811	19.07406616
1417	0.01412	12.14956188	3.67809367	0.80516088	19.14773178	21.87333488
1418	0.01413	12.81254578	2.35212469	-0.15248336	21.35767937	23.56762695
1419	0.01414	15.31715393	6.03537178	0.65783101	18.26375198	23.86228752
1420	0.01415	23.12563705	11.78123665	0.95249075	15.83280849	19.73705101
1421	0.01416	26.66155434	12.95987606	1.46814537	15.46448421	17.82176208
1422	0.01417	20.62103081	11.26558208	0.60516088	17.08511353	19.58972168
1423	0.01418	11.70757198	8.76097488	1.91013503	17.23244286	23.56762695
1424	0.01419	9.86594868	6.18270159	0.58416605	18.70574188	24.59893608
1425	0.0142	9.93961334	1.83647001	0.58416605	19.81071472	23.56762695
1426	0.01421	9.42395878	3.82542348	1.02615571	21.79966927	21.87333488
1427	0.01422	7.65600061	10.08694363	3.60442853	21.87333488	22.02066422
1428	0.01423	7.87699509	14.87516499	3.97275329	22.09432793	21.79966927
1429	0.01424	7.95066023	12.07589722	4.193748	20.62103081	21.28401375
1430	0.01425	8.83463955	7.65600061	3.53076363	21.21035004	19.51605606
1431	0.01426	10.97092247	7.14034557	5.22505713	22.38898849	20.91568947
1432	0.01427	12.4442215	9.86594868	5.88804197	25.18825722	20.40003586
1433	0.01428	10.23427296	11.19191742	6.77202129	23.93595314	19.95804596
1434	0.01429	7.95066023	12.29689121	4.85673285	22.24165916	21.0630188
1435	0.0143	8.09799004	14.58050442	5.15139246	19.81071472	22.97830772
1436	0.01431	10.01327896	18.41108131	5.29872227	20.91568947	20.47369957
1437	0.01432	10.30793858	19.44239044	6.18270159	23.49396324	17.37977219
1438	0.01433	8.68730927	17.23244286	6.25636673	26.73521996	16.20113373
1439	0.01434	3.45709872	15.24348927	9.27662945	25.63024521	17.96909142
1440	0.01435	-3.02541614	16.20113373	11.48657703	22.53631783	18.70574188
1441	0.01436	-7.66630745	17.15877724	11.11825275	19.73705101	19.22139549
1442	0.01437	-4.86703968	16.49579239	10.01327896	21.35767937	19.14773178
1443	0.01438	1.24715054	15.31715393	10.97092247	21.43134499	19.29506111
1444	0.01439	5.15139246	13.99118519	9.35029411	22.38898849	17.8954277
1445	0.0144	5.15139246	13.54919529	7.50867033	21.9469986	15.53814888
1446	0.01441	9.27662945	14.58050442	7.95066023	21.28401375	11.26558208
1447	0.01442	13.10720634	16.71678734	11.19191742	17.23244286	11.85490227
1448	0.01443	13.03354073	19.58972168	10.30793858	13.84385586	14.7278347
1449	0.01444	8.68730927	17.82176208	8.1716547	14.2858448	14.50683975
1450	0.01445	5.29872227	15.31715393	5.44605207	18.41108131	9.71861839
1451	0.01446	6.33003139	15.02249432	6.4773612	19.22139549	9.86594868
1452	0.01447	11.26558208	15.61181355	7.14034557	18.63207626	13.40186596
1453	0.01448	13.99118519	13.32620129	8.39264965	16.0538044	15.61181355
1454	0.01449	13.47553062	11.26558208	7.21401072	17.37977219	13.25453568
1455	0.0145	10.60259819	10.01327896	8.09799004	18.70574188	12.14956188
1456	0.01451	8.39264965	10.23427296	9.27662945	20.91568947	13.54919529
1457	0.01452	7.95066023	10.67626286	10.23427296	24.45160675	23.71495819
1458	0.01453	9.20296383	10.8972578	7.50867033	35.86967087	37.26930618
1459	0.01454	10.45526791	9.0556345	5.59338188	46.99308014	43.75181961
1460	0.01455	10.23427296	6.99301577	5.88804197	40.9525528	28.57684326
1461	0.01456	8.39264965	6.55102634	8.24532032	20.84202385	7.65600061
1462	0.01457	8.31898499	7.50867033	6.33003139	14.50683975	2.35212469
1463	0.01458	9.86594868	6.62469101	2.86777925	21.28401375	11.3392477
1464	0.01459	11.48657703	4.48840809	-0.07881841	22.16799355	16.20113373
1465	0.0146	10.74992752	4.26741314	1.32081544	14.43317509	14.13851547
1466	0.01461	11.3392477	7.80333042	3.16243887	12.37055683	11.92856693
1467	0.01462	11.85490227	10.67626286	3.82542348	15.31715393	15.75914383
1468	0.01463	11.78123665	8.09799004	0.36317122	17.08511353	18.63207626
1469	0.01464	9.71861839	3.82542348	-1.77311206	13.03354073	19.14773178
1470	0.01465	8.98196888	2.5731194	-0.74180287	8.90830421	17.74809647
1471	0.01466	10.8972578	3.67809367	2.64678431	7.43500566	19.00040054
1472	0.01467	13.40186596	5.22505713	3.08877397	10.74992752	17.60076714

	AI	AJ	AK	AL	AM	AN
1414	21.72600365	61.63033295	71.60073853	76.99214172	71.45302582	78.69080353
1415	22.68364906	60.52251053	75.441185	78.54309082	70.71447754	79.2816391
1416	22.60998344	61.1133461	79.94633484	78.83850861	69.97592926	78.1738205
1417	19.22139549	61.26105881	79.13393402	77.87839508	68.79425049	77.28755951
1418	17.8954277	61.55647659	76.10588074	76.25359344	69.01581573	77.06599426
1419	18.85307121	61.63033295	75.58889771	76.62286377	68.05570221	76.0320282
1420	23.27296829	62.73815536	75.88431549	76.62286377	69.68051147	72.1915741
1421	24.45160675	62.29502487	72.63470459	77.73069	69.60665894	70.49291229
1422	23.71495819	60.81792831	70.71447754	77.95225525	68.05570221	70.78833008
1423	20.76836014	58.89770126	72.93012238	77.73069	65.69234467	70.27134705
1424	19.81071472	59.48854065	76.17973328	74.85034943	65.54463959	66.57860565
1425	17.96909142	61.4087677	75.29347992	74.85034943	65.10150909	65.54463959
1426	18.11642265	63.99368668	75.73661041	76.10588074	65.69234467	67.24330139
1427	18.77940559	63.99368668	78.76465607	77.58297729	65.54463959	71.45302582
1428	20.62103081	63.18128204	80.16790009	74.77649689	67.02173615	74.70263672
1429	22.60998344	62.14731598	76.47515869	71.89615631	68.20341492	76.69672394
1430	26.14590073	62.14731598	75.14576721	70.71447754	69.53279877	77.50912476
1431	26.9562149	61.70418549	78.46923828	72.41313934	69.31123352	80.31560516
1432	25.18825722	62.44273376	81.05415344	73.37325287	70.78833008	78.76465607
1433	23.27296829	62.51659012	78.76465607	74.33336639	71.67459106	75.58889771
1434	22.53631783	61.99960709	78.39538574	72.70855713	72.63470459	74.25951385
1435	20.47369957	61.18720245	81.71884918	71.82230377	71.30532074	77.65683746
1436	21.35767937	60.89178467	84.89460754	69.75436401	70.41905975	80.16790009
1437	23.12563705	59.78396225	82.82667542	68.64654541	68.64654541	81.34957886
1438	25.33558655	58.89770126	78.54309082	65.98777008	69.82821655	80.46331787
1439	25.92490578	58.15915298	75.73661041	63.99368668	71.08375549	79.72476959
1440	25.5565815	57.64216995	76.47515869	62.88586426	71.23146057	77.36141205
1441	20.69469452	58.30686188	77.73069	64.43681335	69.82821655	76.32744598
1442	17.67443275	60.22708893	78.39538574	65.98777008	71.89615631	77.21370697
1443	17.37977219	60.81792831	78.09996033	65.91390991	73.96408844	80.02018738
1444	20.17904091	60.59636307	75.51504517	63.40284729	73.74252319	79.8724823
1445	20.10537529	59.04541016	71.97000885	64.28910828	71.52687836	77.58297729
1446	20.54736519	58.89770126	71.23146057	67.24330139	72.1915741	75.441185
1447	20.69469452	58.74999237	73.22554016	69.82821655	72.48699188	76.47515869
1448	20.32637024	60.96563721	74.62878418	70.41905975	72.1915741	76.47515869
1449	17.52710152	62.59044647	72.7824173	73.07783508	72.1915741	75.14576721
1450	16.64312363	62.59044647	71.30532074	72.48699188	74.11180115	72.56085205
1451	15.90647411	60.15323639	71.00989532	70.640625	74.25951385	73.59481812
1452	16.86411858	58.97155762	71.7484436	68.9419632	74.77649689	75.36733246
1453	16.49579239	60.07938004	72.11772156	71.15760803	73.66867065	75.88431549
1454	16.0538044	61.26105881	72.1915741	71.89615631	72.85626984	73.8902359
1455	16.20113373	60.52251053	71.08375549	71.52687836	71.30532074	72.7824173
1456	17.74809647	61.18720245	70.27134705	68.79425049	71.89615631	71.23146057
1457	18.70574188	62.8120079	70.27134705	70.27134705	71.15760803	71.7484436
1458	17.82176208	62.59044647	71.82230377	71.89615631	71.23146057	71.89615631
1459	16.12746811	58.82384872	73.96408844	71.45302582	70.27134705	73.00397491
1460	15.98013878	56.31278229	74.70263672	68.64654541	68.72039795	73.8902359
1461	15.39081955	56.82976532	72.70855713	69.82821655	66.43090057	75.95817566
1462	17.37977219	58.74999237	71.00989532	70.640625	66.8001709	76.99214172
1463	19.14773178	58.45457458	70.49291229	70.27134705	67.61257172	78.98622131
1464	20.47369957	58.01144409	71.45302582	67.83413696	68.12955475	79.94633484
1465	19.29506111	58.60228348	71.67459106	67.68643188	67.61257172	80.9803009
1466	19.73705101	59.78396225	70.78833008	67.46486664	68.57268524	81.05415344
1467	19.36872673	59.48854065	71.00989532	66.87402344	69.45894623	83.19594574
1468	17.96909142	59.78396225	72.63470459	66.13547516	71.08375549	84.15605927
1469	14.87516499	59.34083176	72.70855713	66.20933533	71.89615631	84.00835419
1470	15.61181355	58.82384872	71.08375549	66.28318787	73.66867065	81.12801361
1471	18.55841255	59.11926651	70.93604279	67.31715393	73.81638336	79.72476959
1472	22.53631783	60.37479782	73.15168762	66.94788361	75.81046295	77.28755951

	AO	AP	AQ	AR	AS	AT
1414	60.81792831	316.0229492	93.88141632	2.79411435	18.23919678	70.07440186
1415	60.59636307	312.2660217	86.49593353	3.80086851	18.04275703	71.5022583
1416	61.4087677	308.2881165	82.95090485	5.69160223	19.27050591	73.2993927
1417	62.14731598	307.0358276	81.69536591	5.54427195	20.08082008	72.75779724
1418	61.85189819	309.7614136	84.50185394	5.00406218	20.94024467	71.30531311
1419	57.64216995	310.7927246	90.04096985	7.33678579	20.32637024	71.28070068
1420	57.27289581	307.4041443	91.3703537	11.95312119	19.61427689	71.7484436
1421	56.97747803	304.7521973	86.93906403	13.69652557	19.2459507	70.8868103
1422	56.23892593	307.4778137	87.60375977	10.8972578	20.1299305	69.82821655
1423	54.1709938	311.7503662	93.88141632	7.45956039	20.52280998	69.85283661
1424	53.58015442	315.212616	99.64209747	5.54427195	21.03846359	70.17287445
1425	51.51221848	311.6030579	97.3526001	4.12008333	20.44914436	70.51753235
1426	51.29065323	307.9934692	94.91539001	4.7585125	20.5964756	71.94538879
1427	51.80763626	308.3617859	95.72779083	7.11579084	20.89113426	73.44710541
1428	53.8755722	311.455719	98.16500092	8.90830421	21.5050087	72.70855713
1429	54.1709938	312.6343384	99.19896698	8.07343483	21.5050087	70.17287445
1430	54.1709938	310.0560913	98.75583649	6.67380142	22.29076958	69.33585358
1431	52.69389343	310.0560913	100.085228	7.77877522	23.42029762	70.86219025
1432	52.84160614	313.076355	102.005455	9.39940453	23.59218407	72.29004669
1433	54.98339462	313.2973328	100.5283585	9.39940357	22.38898849	71.87153625
1434	59.63624954	312.1186829	99.71595001	8.36809444	21.9469986	71.03451538
1435	61.26105881	309.3930969	99.56824493	9.27662849	21.08757401	71.57611847
1436	62.22117233	308.8774414	101.119194	11.24102783	20.91568947	71.8469162
1437	63.1074295	309.1720886	100.8976288	11.97767639	21.33312416	70.41905975
1438	64.51067352	310.0560913	100.7499237	10.72537327	22.75731277	67.80952454
1439	64.06754303	310.9400635	102.3008728	9.32573891	23.17474747	65.96315002
1440	65.54463959	311.0874023	104.3688049	8.22076511	22.26621437	65.66773224
1441	66.28318787	310.5717468	105.4027786	6.87024069	19.88438034	66.82479095
1442	67.68643188	309.835083	104.2210999	7.21401072	19.39328194	68.20341492
1443	67.39100647	308.803772	102.7440033	9.17840862	19.36872673	68.27726746
1444	67.31715393	311.8240356	104.3688049	9.49762344	20.1544857	66.50475311
1445	65.76620483	314.1813049	105.6243439	8.73641968	19.19684029	65.10150909
1446	66.43090057	315.7282715	105.5504837	10.60259819	17.69898605	65.79081726
1447	65.98777008	314.9179688	103.1871338	13.67197037	16.59401321	67.26791382
1448	63.03357315	314.6969605	103.4086914	14.31040001	16.29935455	68.67115784
1449	58.60228348	311.5293884	106.8798752	11.5602417	15.43992901	69.48356628
1450	58.30686188	306.151825	109.3909378	8.68730927	14.92427444	68.79425049
1451	58.89770126	302.6159058	112.0497131	9.27662849	14.99793911	67.26792145
1452	59.93167114	304.1628723	120.6168747	11.33924675	16.29935455	66.5539856
1453	59.48854065	308.3617859	123.3495026	11.90401173	16.05380249	67.78490448
1454	57.49446106	310.6453857	111.1634522	10.65170765	15.56270409	68.44960022
1455	55.7219429	306.7411499	94.32454681	9.57128906	15.68547916	67.71104431
1456	56.53434753	304.5312195	92.99516296	9.3011837	17.40432739	66.75093079
1457	58.01144409	305.2678528	100.8976288	9.62039852	22.29076958	67.78489685
1458	58.60228348	309.2457581	106.1413269	9.20296383	30.32024574	68.76963806
1459	59.34083176	310.7927246	103.7041168	8.36809444	35.62412262	68.08032227
1460	61.92575073	312.2660217	101.119194	7.70511007	28.50317764	66.5539856
1461	61.48262024	315.3599548	102.005455	7.72966528	14.62961483	66.455513
1462	60.67021942	318.4538879	103.9995346	7.38589573	11.41291237	66.8001709
1463	61.26105881	318.1592102	103.1871338	6.45280647	17.25699806	66.40628052
1464	63.99368668	316.7595825	104.885788	5.29872227	19.61427498	65.76620483
1465	63.62441254	315.8756104	114.0437927	5.44605207	15.95558357	65.98777008
1466	63.47670364	318.2328796	125.4174423	7.43500566	14.67872524	66.01239014
1467	62.73815536	319.1168823	118.6227951	8.78552914	16.81500816	65.79081726
1468	62.29502487	319.9271851	104.2210999	6.74746609	17.8954277	66.18471527
1469	60.81792831	319.5588684	98.75583649	3.92364335	15.68547916	66.08624268
1470	60.81792831	318.3065491	99.93751526	3.60442853	14.08940506	65.39692688
1471	59.78396225	316.5386047	98.68198395	5.74071217	14.99794006	65.79081726
1472	61.1133461	314.5496521	96.7617569	7.23856544	16.96233749	66.82479095

	AU
1414	70.32058716
1415	70.19749451
1416	69.85283661
1417	69.40970612
1418	69.31123352
1419	67.24330139
1420	66.38166046
1421	65.69235229
1422	65.02764893
1423	63.37822723
1424	61.90113449
1425	60.71945572
1426	61.4087677
1427	62.93510056
1428	65.19998169
1429	66.35704041
1430	67.07096863
1431	67.44024658
1432	67.46486664
1433	67.41562653
1434	68.8434906
1435	70.07440186
1436	70.93604279
1437	71.03451538
1438	71.60073853
1439	71.62535858
1440	71.37917328
1441	70.81295013
1442	72.26543427
1443	73.79176331
1444	73.6440506
1445	71.62535095
1446	71.35455322
1447	71.64997101
1448	70.56677246
1449	68.64654541
1450	68.32650757
1451	68.91734314
1452	70.02516937
1453	69.68051147
1454	68.08032227
1455	66.60322571
1456	66.5539856
1457	66.97249603
1458	67.24330139
1459	67.53871918
1460	68.17879486
1461	67.95722961
1462	68.1541748
1463	69.28662109
1464	70.68985748
1465	70.7390976
1466	71.03451538
1467	71.79768372
1468	72.51161194
1469	72.24081421
1470	71.87153625
1471	71.10836792
1472	71.40379333

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1473								.009670	10.90	59.12	3.68	70.94	2.65	67.32
1474								.009680	13.40	60.37	5.23	73.15	3.09	66.95
1475								.009690	12.96	60.30	4.86	74.11	3.09	66.87
1476								.009700	10.60	59.64	4.12	73.67	2.28	68.06
1477								.009710	9.87	60.23	3.60	73.82	2.94	70.94
1478								.009720	12.52	61.04	5.08	75.44	1.39	71.31
1479								.009730	15.32	60.82	5.81	76.18	1.62	73.15
1480								.009740	13.70	60.82	5.00	76.77	1.98	74.04
1481								.009750	10.97	63.03	3.24	77.07	1.98	73.52
1482								.009760	15.61	65.99	2.72	76.62	-.30	69.83
1483								.009770	24.53	64.95	2.65	73.59	-.15	69.31
1484								.009780	33.00	63.11	4.12	71.45	-1.18	70.42
1485								.009790	38.45	63.55	5.89	71.82	-2.22	73.08
1486								.009800	34.32	65.40	5.15	74.11	-2.80	72.63
1487								.009810	24.75	64.95	1.62	73.82	-.82	73.37
1488								.009820	21.58	62.74	.51	71.31	-1.48	73.82
1489								.009830	20.55	63.48	2.72	69.09	-1.92	74.33
1490								.009840	15.83	65.99	4.93	69.46	-2.44	72.12
1491								.009850	16.13	65.54	3.31	69.09	-1.63	71.60
1492								.009860	23.27	63.26	2.50	69.53	-3.03	71.01
1493								.009870	22.39	63.99	2.35	71.23	-3.47	70.71
1494								.009880	14.73	64.81	2.35	72.27	-3.54	68.65
1495								.009890	13.99	62.81	.51	70.57	-2.95	67.76
1496								.009900	18.41	60.74	-.15	69.39	-2.80	67.69
1497								.009910	19.07	62.96	-.89	68.28	-3.10	68.50
1498								.009920	16.35	66.58	-.82	68.20	-5.01	67.17
1499								.009930	14.95	66.95	.44	70.12	-5.09	66.80
1500								.009940	14.06	64.14	4.19	71.97	-4.28	67.39
1501								.009950	17.23	62.74	5.45	69.53	-3.61	68.72
1502								.009960	29.90	64.36	4.71	66.80	-7.37	67.76
1503								.009970	37.27	66.87	4.56	67.61	-8.48	67.91
1504								.009980	21.80	67.10	5.59	69.90	-5.01	68.72
1505								.009990	4.27	65.91	4.86	70.42	-.30	71.53
1506								.010000	15.91	57.05	11.93	79.95	23.27	75.81
1507								.010010	15.02	55.65	11.04	81.05	22.32	75.15
1508								.010020						
1509								.010030						
1510								.010040						
1511								.010050						
1512								.010060						
1513								.010070						
1514								.010080						
1515								.010090						
1516								.010100						
1517								.010110						
1518								.010120						
1519								.010130						
1520								.010140						
1521								.010150						
1522								.010160						
1523								.010170						
1524								.010180						
1525								.010190						
1526								.010200						
1527								.010210						
1528								.010220						
1529								.010230						
1530								.010240						
1531								.010250						

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1473	7.44	73.82	19.00	79.72	18.56	59.78	.009670	316.54	98.68	5.74	65.79	15.00	71.11	
1474	10.75	75.81	17.60	77.29	22.54	61.11	.009680	314.55	96.76	7.24	66.82	16.96	71.40	
1475	12.74	78.99	15.46	75.81	22.39	62.15	.009690	316.17	98.31	6.97	67.10	16.86	72.31	
1476	14.58	82.24	13.33	74.63	18.85	61.85	.009700	317.79	99.57	5.67	67.12	15.59	72.91	
1477	15.24	81.20	13.70	75.74	16.57	59.49	.009710	317.50	100.68	5.47	68.33	15.17	72.14	
1478	15.98	80.17	13.92	75.15	18.41	57.72	.009720	318.38	103.19	6.33	69.26	16.10	71.01	
1479	13.40	78.84	15.61	75.74	16.94	55.13	.009730	319.49	104.22	7.58	70.05	15.32	69.90	
1480	13.55	80.17	14.43	76.18	14.51	55.35	.009740	320.22	105.40	6.89	70.54	14.16	70.57	
1481	14.88	79.80	13.92	78.76	14.43	57.49	.009750	316.46	105.11	5.40	71.21	14.41	72.02	
1482	14.58	80.46	14.73	80.76	17.23	59.12	.009760	314.03	105.26	6.01	70.81	15.51	73.45	
1483	6.99	81.57	16.50	80.39	17.82	57.72	.009770	314.99	103.70	9.01	69.29	13.77	73.23	
1484	4.64	83.71	14.58	77.80	17.97	56.63	.009780	319.04	102.74	11.98	68.33	12.40	72.78	
1485	11.04	82.83	12.37	78.03	17.67	55.57	.009790	320.44	103.04	14.04	69.48	13.70	72.14	
1486	18.48	80.76	10.53	79.21	18.26	55.20	.009800	317.50	102.45	12.22	70.71	15.76	71.72	
1487	17.53	79.43	12.22	80.32	15.98	54.02	.009810	312.34	100.45	8.52	70.71	15.24	71.26	
1488	14.80	80.83	13.84	77.36	13.99	54.91	.009820	311.53	101.86	6.87	69.29	14.21	71.03	
1489	14.88	79.58	14.36	75.15	13.92	55.87	.009830	312.19	103.63	7.12	68.97	14.38	70.20	
1490	18.63	77.36	12.44	73.37	17.38	57.05	.009840	314.11	104.37	6.11	69.19	16.15	69.26	
1491	19.44	75.44	11.41	73.89	17.45	55.13	.009850	314.48	102.74	5.94	68.75	16.10	68.15	
1492	18.19	74.85	10.82	74.55	16.20	54.91	.009860	315.14	102.89	7.58	67.93	15.07	68.10	
1493	18.85	73.15	12.74	75.74	13.40	56.68	.009870	313.08	103.48	7.09	68.65	15.00	68.52	
1494	22.90	72.63	15.02	75.74	14.65	60.89	.009880	311.31	105.03	4.51	68.57	17.53	69.75	
1495	22.83	70.79	17.67	75.52	16.50	59.86	.009890	311.68	107.77	3.85	67.05	19.00	68.72	
1496	21.21	70.79	15.10	72.78	18.26	56.90	.009900	311.31	104.66	5.15	65.94	18.19	66.82	
1497	20.33	72.12	12.30	71.67	18.12	55.35	.009910	309.10	91.89	5.03	66.58	16.91	66.38	
1498	21.43	73.82	13.55	73.37	17.67	58.16	.009920	309.25	85.46	3.51	67.32	17.55	68.45	
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1502	24.01	74.63	16.05	75.81	14.58	58.75	.009960	308.36	101.86	9.08	66.31	18.21	69.73	
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1475	0.0147	9.86594868	3.60442853	2.94144416	15.24348927	13.69652557
1476	0.01471	12.51788616	5.07772732	1.39448035	15.98013878	13.91752052
1477	0.01472	15.31715393	5.81437683	1.61547518	13.40186596	15.61181355
1478	0.01473	13.69652557	5.00406265	1.98379993	13.54919529	14.43317509
1479	0.01474	10.97092247	3.23610401	1.98379993	14.87516499	13.91752052
1480	0.01475	15.61181355	2.72044945	-0.29981324	14.58050442	14.7278347
1481	0.01476	24.52527237	2.64678431	-0.15248336	6.99301577	16.49579239
1482	0.01477	32.99673843	4.12008333	-1.18379247	4.6357379	14.58050442
1483	0.01478	38.44794464	5.88804197	-2.21510172	11.04458609	12.37055663
1484	0.01479	34.32270813	5.15139246	-2.80442119	18.48474693	10.52893353
1485	0.0148	24.74626732	1.61547518	-0.81546783	17.52710152	12.22322655
1486	0.01481	21.57867432	0.51050109	-1.47845232	14.80149937	13.84385586
1487	0.01482	20.54736519	2.72044945	-1.92044199	14.87516499	14.35951042
1488	0.01483	15.83280849	4.93039751	-2.43609643	18.63207626	12.4442215
1489	0.01484	16.12746811	3.30976892	-1.62578213	19.44239044	11.41291237
1490	0.01485	23.27296829	2.4994545	-3.02541614	18.19008636	10.82359314
1491	0.01486	22.38898849	2.35212469	-3.4674058	18.85307121	12.73888111
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1497	0.01492	14.94882965	0.43683618	-5.08803463	18.3374176	17.74809647
1498	0.01493	14.06484985	4.193748	-4.27771997	16.71678734	17.37977219
1499	0.01494	17.23244286	5.44605207	-3.6147356	19.07406616	16.12746811
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1502	0.01497	21.79966927	5.59338188	-5.01436949	23.27296829	11.92856693
1503	0.01498	4.26741314	4.85673285	-0.29981324	22.31532288	11.04458609
1504	0.01497	15.90647411	11.92856693	23.27296829	-5.01436949	5.59338188
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1475	16.56945801	60.22708893	73.81638336	70.93604279	81.20186615	75.73661041
1476	18.41108131	61.03949356	75.441185	71.30532074	80.16790009	75.14576721
1477	16.93778229	60.81792831	76.17973328	73.15168762	78.83850861	75.73661041
1478	14.50683975	60.81792831	76.77057648	74.03794861	80.16790009	76.17973328
1479	14.43317509	63.03357315	77.06599426	73.52096558	79.79862213	78.76465607
1480	17.23244286	65.98777008	76.62286377	69.82821655	80.46331787	80.75873566
1481	17.82176208	64.95379639	73.59481812	69.31123352	81.5711441	80.38946533
1482	17.96909142	63.1074295	71.45302582	70.41905975	83.71292877	77.80454254
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1488	17.37977219	65.98777008	69.45894623	72.11772156	77.36141205	73.37325287
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1475	59.48854065	317.4962463	100.6760635	5.47060728	15.1698246	68.32650757
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1477	55.13110352	319.485199	104.2210999	7.58233547	15.31715393	70.0497818
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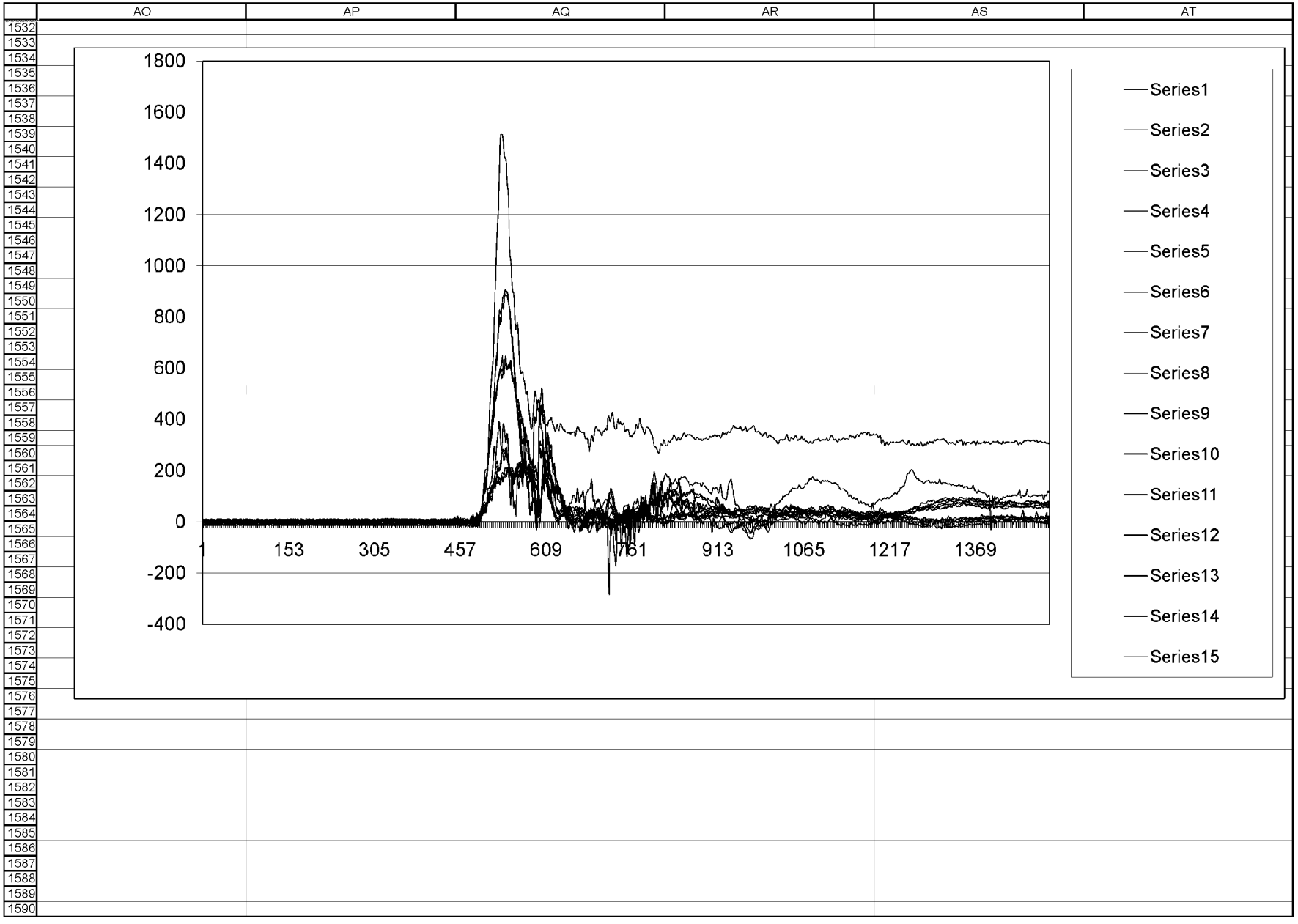
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1900							.013940							
1901							.013950							
1902							.013960							
1903							.013970							
1904							.013980							
1905							.013990							
1906							.014000							
1907							.014010							
1908							.014020							
1909							.014030							
1910							.014040							
1911							.014050							
1912							.014060							
1913							.014070							
1914							.014080							
1915							.014090							
1916							.014100							
1917							.014110							
1918							.014120							
1919							.014130							
1920							.014140							
1921							.014150							
1922							.014160							
1923							.014170							
1924							.014180							
1925							.014190							
1926							.014200							
1927							.014210							
1928							.014220							
1929							.014230							
1930							.014240							
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1935							.014290							
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1939							.014330							
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1942							.014360							
1943							.014370							
1944							.014380							

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1945								.014390						
1946								.014400						
1947								.014410						
1948								.014420						
1949								.014430						
1950								.014440						
1951								.014450						
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1954								.014480						
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1958								.014520						
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1981								.014750						
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1984								.014780						
1985								.014790						
1986								.014800						
1987								.014810						
1988								.014820						
1989								.014830						
1990								.014840						
1991								.014850						
1992								.014860						
1993								.014870						
1994								.014880						

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1945							.014390							
1946							.014400							
1947							.014410							
1948							.014420							
1949							.014430							
1950							.014440							
1951							.014450							
1952							.014460							
1953							.014470							
1954							.014480							
1955							.014490							
1956							.014500							
1957							.014510							
1958							.014520							
1959							.014530							
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1961							.014550							
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1963							.014570							
1964							.014580							
1965							.014590							
1966							.014600							
1967							.014610							
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1969							.014630							
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1973							.014670							
1974							.014680							
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1976							.014700							
1977							.014710							
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1985							.014790							
1986							.014800							
1987							.014810							
1988							.014820							
1989							.014830							
1990							.014840							
1991							.014850							
1992							.014860							
1993							.014870							
1994							.014880							

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1995								.014890						
1996								.014900						
1997								.014910						
1998								.014920						
1999								.014930						
2000								.014940						
2001								.014950						
2002								.014960						
2003								.014970						
2004								.014980						
2005								.014970						
2006								.014980						

	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1995							.014890							
1996							.014900							
1997							.014910							
1998							.014920							
1999							.014930							
2000							.014940							
2001							.014950							
2002							.014960							
2003							.014970							
2004							.014980							
2005							.014970							
2006							.014980							

- Any questions should be directed to James Urbon. If any clarification is required, please ask don't assume.
- Record all test progress and data on a Daily Log Sheet and in this TLW.
- Label rifles (All)
    - Label with the standard information; serial number, model number, TLW number, and Test ID number
    - Label the 300 Win Mag rifles with ID #'s A1, A2, etc.
    - Label the 30-06 rifles with ID #'s B1, B2, etc.
    - Label the 243 Win Youth rifles with ID #'s C1, C2, etc.
- Initial Measurement and Inspection. (All)
    - Generally visually inspect the overall condition of all of the rifles. Note and photograph any anomalies.
    - Measure the trigger pull on all of the rifles using the Dvorak.
    - Perform a safety function test on all of the rifles.
    - Measure the depth of the front take down screw hole located in the barrel on all of the rifles.
    - For rifles A1 – A3, B1 – B3, and C1 – C3, Measure the chamber dimension via chamber cast. Measure the bore and groove dimensions using best method available. Measure twist rate using best method available.
- Head Space / Proof / Head Space (All)
    - Measure and record headspace using chamber shoulder head space gauges.
    - Fire one standard proof cartridge per rifle in controlled environment via lanyard.
    - Measure and record headspace using chamber shoulder head space gauges following proof test.
- Extended Proof (A7)
    - Fire 100 standard proof cartridges in rifle A7.
    - Measure and record the head space using chamber shoulder head space gauges after every round for the first 10 rounds, then after every 5 rounds until round level 50 and then after every 10 rounds until the end of the test.
- Hi-Pressure:
    - Shoot 3 rds @ 60gr / 65gr & 1 @ 70gr > determine final load @ 120kpsi. >1 Aug 07
    - Fire 1 @ 71.5gr (120kpsi) 2 Aug 07 fired round. Gun: 300WM / A9 - 71378962
    - Video loc: Etownadc1/HighSpeedVideo/Tlw2305

- Any questions should be directed to James Urbon. If any clarification is required, please ask don't assume.
- Record all test progress and data on a Daily Log Sheet and in this TLW.
- Label rifles (All)
    - Label with the standard information; serial number, model number, TLW number, and Test ID number
    - Label the 7mm Rem Mag rifles with ID #'s D1, D2, etc.
    - Label the 270 Win. rifles with ID #'s E1, E2, etc.
- Initial Measurement and Inspection. (All)
    - Generally visually inspect the overall condition of all of the rifles. Note and photograph any anomalies.
    - Measure the trigger pull on all of the rifles using the Spring Scale.
    - Perform a safety function test on all of the rifles.
- Head Space / Proof / Head Space (All)
    - Measure and record headspace using chamber shoulder head space gauges.
    - Fire one standard proof cartridge per rifle in controlled environment via lanyard.
    - Measure and record headspace using chamber shoulder head space gauges following proof test.
- Accuracy (D1-5, E1-5)
    - Clean and inspect each rifle prior to testing.
    - Shoot at a minimum five shoot to sight in and foul the rifle. Fire additional shots if required to sight in the rifle. Record the exact number of rounds fired.
    - Fire 3 five shot groups for each rifle at 100 yards.
    - Keep track of and mark the placement of each shot in each group. Number the shots in each group 1 – 5 in the order in which they were fired.
    - Measure and record the three shot group size in each group using shots 1 – 3.
    - Measure and record the five shot group size in each group using all five shots fired.
    - All groups are to be measured center to center.
    - Clean and inspect each rifle after completion of testing.

- Endurance (D1-5, E1-5)
    - In each series, the guns are to be fired to the following round levels.
        - Gun 1 to 1000 RL.
        - Gun 2 to 500 RL.
        - Guns 3, 4, & 5 to 100 RL.
    - All guns are to be cooled to the touch every 20 rounds via shop air.
    - All guns are to be cleaned and inspected every 500 rounds.
- Metallurgical Evaluation
    - A sample of the endurance guns will be disassembled and have there barrels sectioned and mounted to check for possible barrel cracking and locking lug hardness.

- Accuracy (A1-6, B1-6, C1-6)
  - Clean and inspect each rifle prior to testing.
  - Shoot at a minimum five shoot to sight in and foul the rifle. Fire additional shots if required to sight in the rifle. Record the exact number of rounds fired.
  - Fire 3 five shot groups for each rifle at 100 yards.
  - Keep track of and mark the placement of each shot in each group. Number the shots in each group 1 – 5 in the order in which they were fired.
  - Measure and record the three shot group size in each group using shots 1 – 3.
  - Measure and record the five shot group size in each group using all five shots fired.
  - All groups are to be measured center to center.
  - Clean and inspect each rifle after completion of testing.
- Endurance (A1-6, B1-6, C1-6)
  - In each series, the guns are to be fired to the following round levels.
    - Guns 1 & 2 to 2000 RL.
    - Guns 3 & 4 to 1000 RL.
    - Guns 5 & 6 to 500 RL.
  - All guns are to be cooled to the touch every 20 rounds via shop air.
  - All guns are to be cleaned and inspected every 500 rounds.
- Metallurgical Evaluation
  - A sample of the endurance guns will be disassembled and have there barrels sectioned and mounted to check for possible barrel cracking and locking lug hardness.
- Environmental Testing (A8, B8)
  - Perform standard Hot test..
  - Perform standard Cold test.
  - Perform standard Thermal Cycle test.
- Dry Cycle (B7)
  - Dry cycle gun 10,000 cycles.
  - Lubricate gun every 500 cycles.
  - Photograph any wear every 1000 cycles.
- High Pressure Abuse (A9)
  - Perform standard high pressure abuse test.
    - See S. Franz / J. Urbon for details.

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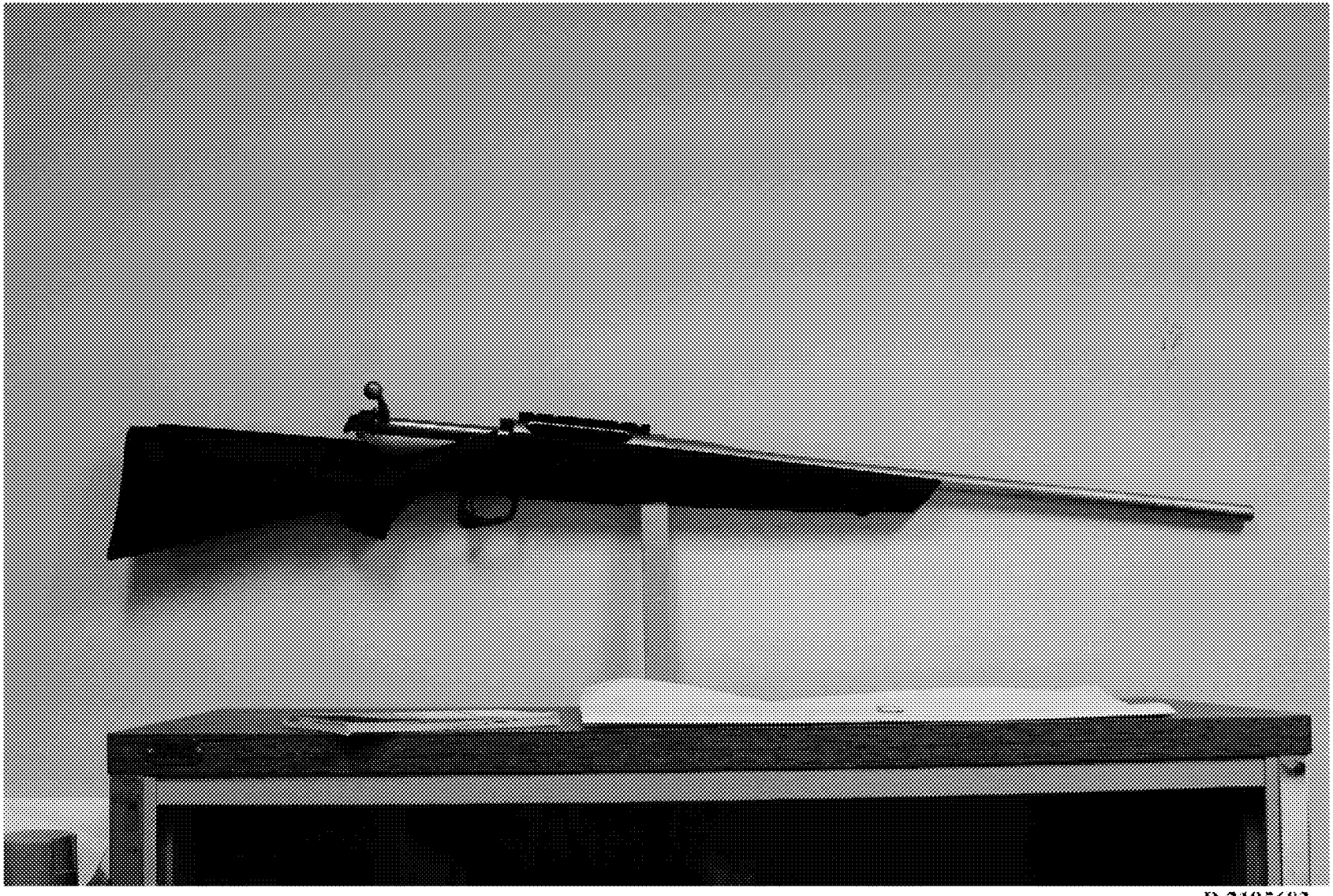
KINZER V. REMINGTON

R 2195682



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KINZER V. REMINGTON

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KINZER V. REMINGTON

R 2195686

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R 2195687

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KINZER V. REMINGTON

R 2195688

Non-Printable File

File Name: Thumbs.db

Non-Printable File

File Name: Data-reduced.sif

Non-Printable File

File Name: Process-data.sif

A1 - #1

Test: 300WM		1	**Gun:** 300WM			**Load:** Default	
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0 grains
Muzl to Scr1:	5.00 feet		**Serial #:**	Optional		**Bullet Style:**	Optional
Scr1 to Scr3:	20.00 feet		**Bullet Dia:**	1.000 inches		**B.C.:**	0.328 G1
Scr4 to Scr6:	N/A feet		**Barrel Len:**	0.00 inches		**Powder:**	Optional
Muzl to Trgt:	300.00 feet		**Gun Weight:**	1.0 lb		**Powder Wgt:**	10.0 grains
Target Size:	36.0 inches		**Sight Height:**	1.50 inches		**Lot Number:**	Optional
Temperature:	70 °F		**Gage Factor:**	N/A		**Primer:**	Optional
Humidity:	40 %		**Outside Dia:**	N/A inches		**Brass:**	Optional
Altitude:	750 feet		**Inside Dia:**	N/A inches		**Load OAL:**	2.250 inches
Baro Press:	29.50 in Hg		**Max Press:**	N/A PSI		**Max Avg Pre...**	Optional
Wind Speed:	0.0 MPH		**Offset Press:**	N/A PSI		**Avg Velocity:**	Optional
Wind Dir:	6:00 O'clock		**PC/Press:**	N/A PC/PSI		**Note:**	Optional
Time Scale:	N/A Msec.		**Gage Press/Volt:**	N/A PSI			
Test Date:	7/11/2007		**Vel Correction:**	0 fps			
Test Time:	09:29		**Press Correction:**	N/A PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	3002	2744	0.333	-11.4	23.7
2	2963	2703	0.328	-10.5	25.8
3	2943	2681	0.324	-11.2	24.1
4	2997	2730	0.322	-11.0	23.0
5	2934	2680	0.334	-10.9	27.1

A-1 shot GRP #1

SUMMARY

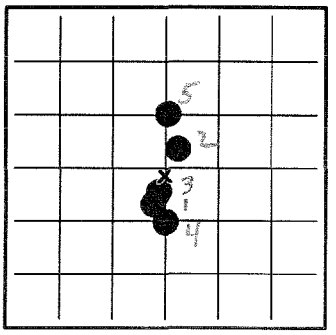
	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2968	2708	0.328	-11.0	24.7
SD	31	29	0.005	0.4	1.7
HI	3002	2744	0.334	-10.5	27.1
LO	2934	2680	0.322	-11.4	23.0
ES	68	64	0.012	0.9	4.1

Rad SD: [illegible]
~~Group:~~ [illegible] 2.0
Mean Radius: [illegible]

Group measured via paper target

Incorrect Not Calibrated

Acoustic



Grid: [illegible] inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.33	-0.21	0.00	-3.30	-12.51	-29.11	-55.05
10 MPH Wind	0.00	0.00	0.22	0.92	3.85	9.12	17.13	28.37
Velocity (fps)	2982	2968	2837	2697	2428	2175	1938	1718
Energy (ft-lbs)	----	----	----	----	----	----	83436	65554
Power Factor	29825	29677	28372	26967	24283	21755	19382	17180
Recoil	----	ft-lbs						

Comment:

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KINZER V. REMINGTON

A1 - #2

Test: 300WM	2	**Gun:** 300WM			**Load:** Default		
Operator: Optional		**Mfg/Model:** Optional			**Bullet Mfg:** Optional		
Test Bay: Optional		**Caliber:** Optional			**Bullet Wgt:** 10000.0	grains	
Muzl to Scr1: 5.00	feet	**Serial #:** Optional			**Bullet Style:** Optional		
Scr1 to Scr3: 20.00	feet	**Bullet Dia:** 1.000	inches		**B.C.:** 0.335	G1	
Scr4 to Scr6: N/A	feet	**Barrel Len:** 0.00	inches		**Powder:** Optional		
Muzl to Trgt: 300.00	feet	**Gun Weight:** 1.0	lb		**Powder Wgt:** 10.0	grains	
Target Size: 36.0	inches	**Sight Height:** 1.50	inches		**Lot Number:** Optional		
Temperature: 70	°F	**Gage Factor:** N/A			**Primer:** Optional		
Humidity: 40	%	**Outside Dia:** N/A	inches		**Brass:** Optional		
Altitude: 750	feet	**Inside Dia:** N/A	inches		**Load OAL:** 2.250	inches	
Baro Press: 29.50	in Hg	**Max Press:** N/A	PSI		**Max Avg Pre...** Optional		
Wind Speed: 0.0	MPH	**Offset Press:** N/A	PSI		**Avg Velocity:** Optional		
Wind Dir: 6:00	O'clock	**PC/Press:** N/A	PC/PSI		**Note:** Optional		
Time Scale: N/A	Msec.	**Gage Press/Volt:** N/A	PSI				
Test Date: 7/11/2007		**Vel Correction:** 0	fps				
Test Time: 09:58		**Press Correction:** N/A	PSI				

File: E:\Sims\Default.m83

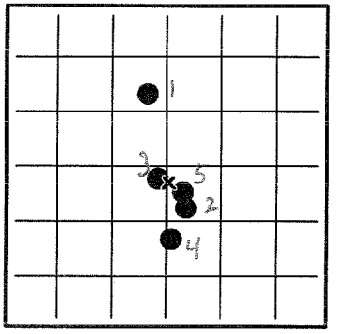
OEHLER

MODEL 83 SHOT DATA

Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2983	2737	0.349	-7.0	29.2
2	2972	2718	0.336	-5.3	24.0
3	2985	2730	0.335	-6.6	25.4
4	2978	2715	0.325	-5.9	22.6
5	2918	2664	0.332	-5.4	24.8

A-1 Shot Grp #2

Acoustic



Grid: inches

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2967	2713	0.335	-6.0	25.2
SD	28	29	0.009	0.8	2.5
HI	2985	2737	0.349	-5.3	29.2
LO	2918	2664	0.325	-7.0	22.6
ES	67	73	0.024	1.7	6.6

Group Measured via paper target

Incorrect not Calibrated

Rad SD:
Group:
Mean Radius: 3.17

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.33	-0.21	0.00	-3.28	-12.42	-28.85	-54.43
10 MPH Wind	0.00	0.00	0.22	0.90	3.76	8.90	16.70	27.61
Velocity (fps)	2982	2967	2840	2702	2439	2190	1957	1740
Energy (ft-lbs)	----	----	----	----	----	----	85051	67216
Power Factor	29817	29673	28395	27018	24385	21903	19569	17396
Recoil	----	ft-lbs						

Comment:

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KINZER V. REMINGTON

A1 - #3

Test: 300WM		3	**Gun:** 300WM			**Load:** Default		
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.389	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	55.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	10:12		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

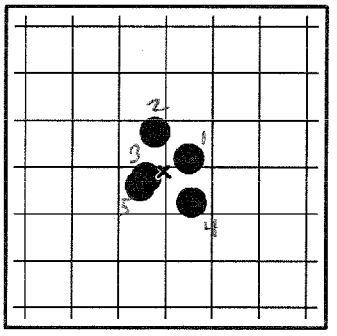
OEHLER

MODEL 83 SHOT DATA

Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2944	2721	0.383	-6.6	16.9
2	2945	2730	0.396	-7.7	17.8
3	2948	2735	0.401	-8.0	16.3
4	2987	2757	0.374	-6.6	15.5
5	2954	2733	0.388	-8.2	16.1

A-1 Shot Grp #3

Acoustic



SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2955	2735	0.389	-7.4	16.5
SD	18	13	0.011	0.8	0.9
HI	2987	2757	0.401	-6.6	17.8
LO	2944	2721	0.374	-8.2	15.5
ES	43	36	0.027	1.6	2.3

Group measured via paper Target

Incorrect Not calibrated

Rad SD: [illegible]
~~**Group:** [illegible]~~
Mean Radius: [illegible] 2.65

Grid: [illegible] inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.33	-0.21	0.00	-3.19	-11.97	-27.46	-51.08
10 MPH Wind	0.00	0.00	0.19	0.77	3.22	7.57	14.08	23.07
Velocity (fps)	2968	2955	2845	2726	2497	2279	2072	1876
Energy (ft-lbs)	----	----	----	----	----	----	95341	78190
Power Factor	29678	29554	28453	27260	24968	22789	20719	18763
Recoil	----	ft-lbs						

Comment:

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KINZER V. REMINGTON

A2 - #1

Test: 300WM	4	**Gun:** 300WM			**Load:** Default			
Operator:	Optional	**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional		
Test Bay:	Optional	**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains	
Muzl to Scr1:	5.00 feet	**Serial #:**	Optional		**Bullet Style:**	Optional		
Scr1 to Scr3:	20.00 feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.400	G1	
Scr4 to Scr6:	N/A feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional		
Muzl to Trgt:	300.00 feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains	
Target Size:	57.4 inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional		
Temperature:	70 °F	**Gage Factor:**	N/A		**Primer:**	Optional		
Humidity:	40 %	**Outside Dia:**	N/A	inches	**Brass:**	Optional		
Altitude:	750 feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches	
Baro Press:	29.50 in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional		
Wind Speed:	0.0 MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional		
Wind Dir:	6:00 O'clock	**PC/Press:**	N/A	PC/PSI	**Note:** Optional			
Time Scale:	N/A Msec.	**Gage Press/Volt:**	N/A	PSI				
Test Date:	7/11/2007	**Vel Correction:**	0	fps				
Test Time:	10:26	**Press Correction:**	N/A	PSI				

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2996	2779	0.397	-10.2	13.5
2	2980	2767	0.402	-9.6	12.8
3	2946	2728	0.390	-8.7	12.8
4	2965	2756	0.409	-9.7	12.6
5	3004	2788	0.399	-8.8	13.3

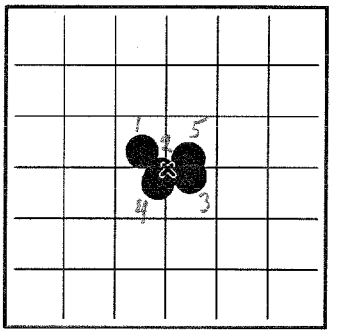
A-2 Shot Grp #1

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2978	2763	0.400	-9.4	13.0
SD	24	23	0.007	0.6	0.4
HI	3004	2788	0.409	-8.7	13.5
LO	2946	2728	0.390	-10.2	12.6
ES	58	60	0.019	1.5	0.9

Rad SD: 0.7
Group: 1.6
Mean Radius: 0.6

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.33	-0.22	0.00	-3.09	-11.63	-26.66	-49.51
10 MPH Wind	0.00	0.00	0.18	0.74	3.09	7.25	13.47	22.03
Velocity (fps)	2991	2978	2871	2754	2530	2316	2113	1920
Energy (ft-lbs)	----	----	----	----	----	----	99138	81881
Power Factor	29906	29785	28708	27541	25296	23160	21127	19201
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

A2- #2

Test: 300WM	5	**Gun:** 300WM			**Load:** Default		
Operator: Optional		**Mfg/Model:** Optional			**Bullet Mfg:** Optional		
Test Bay: Optional		**Caliber:** Optional			**Bullet Wgt:** 10000.0		grains
Muzl to Scr1: 5.00	feet	**Serial #:** Optional			**Bullet Style:** Optional		
Scr1 to Scr3: 20.00	feet	**Bullet Dia:** 1.000		inches	**B.C.:** 0.394		G1
Scr4 to Scr6: N/A	feet	**Barrel Len:** 0.00		inches	**Powder:** Optional		
Muzl to Trgt: 300.00	feet	**Gun Weight:** 1.0		lb	**Powder Wgt:** 10.0		grains
Target Size: 57.4	inches	**Sight Height:** 1.50		inches	**Lot Number:** Optional		
Temperature: 70	°F	**Gage Factor:** N/A			**Primer:** Optional		
Humidity: 40	%	**Outside Dia:** N/A		inches	**Brass:** Optional		
Altitude: 750	feet	**Inside Dia:** N/A		inches	**Load OAL:** 2.250		inches
Baro Press: 29.50	in Hg	**Max Press:** N/A		PSI	**Max Avg Pre...** Optional		
Wind Speed: 0.0	MPH	**Offset Press:** N/A		PSI	**Avg Velocity:** Optional		
Wind Dir: 6:00	O'clock	**PC/Press:** N/A		PC/PSI	**Note:** Optional		
Time Scale: N/A	Msec.	**Gage Press/Volt:** N/A		PSI			
Test Date: 7/11/2007		**Vel Correction:** 0		fps			
Test Time: 10:47		**Press Correction:** N/A		PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

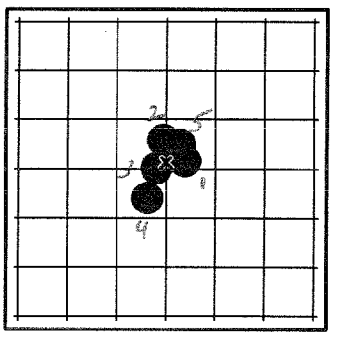
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2976	2751	0.382	-4.9	13.1
2	3027	2808	0.395	-5.6	13.7
3	2943	2730	0.399	-5.8	12.9
4	2938	2720	0.392	-6.1	11.9
5	2946	2733	0.400	-5.1	13.6

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2966	2748	0.394	-5.5	13.0
SD	37	35	0.007	0.5	0.7
HI	3027	2808	0.400	-4.9	13.7
LO	2938	2720	0.382	-6.1	11.9
ES	89	88	0.018	1.2	1.8

Rad SD: 0.8
Group: 1.9
Mean Radius: 0.7

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.33	-0.22	0.00	-3.14	-11.81	-27.08	-50.34
10 MPH Wind	0.00	0.00	0.19	0.76	3.16	7.42	13.78	22.56
Velocity (fps)	2978	2966	2857	2739	2512	2296	2091	1897
Energy (ft-lbs)	----	----	----	----	----	----	97132	79934
Power Factor	29782	29659	28570	27390	25121	22964	20912	18971
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

A2- #3

Test: 300WM		6	**Gun:** 300WM			**Load:** Default		
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.390	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	57.4	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	10:56		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

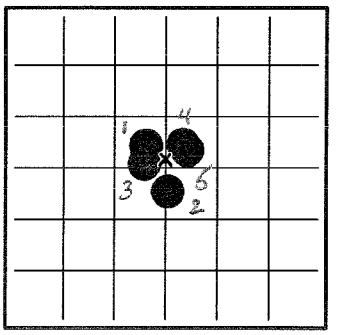
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2934	2711	0.381	-7.4	9.7
2	2959	2741	0.393	-6.8	8.3
3	2997	2780	0.397	-7.5	9.1
4	2954	2734	0.388	-6.3	9.7
5	2976	2755	0.388	-6.2	9.5

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2964	2744	0.390	-6.9	9.3
SD	24	26	0.006	0.6	0.6
HI	2997	2780	0.397	-6.2	9.7
LO	2934	2711	0.381	-7.5	8.3
ES	63	69	0.016	1.3	1.4

Rad SD: 0.8
Group: 1.5
Mean Radius: 0.7

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.33	-0.22	0.00	-3.16	-11.87	-27.23	-50.66
10 MPH Wind	0.00	0.00	0.19	0.77	3.20	7.51	13.97	22.89
Velocity (fps)	2976	2964	2854	2735	2506	2288	2081	1885
Energy (ft-lbs)	----	----	----	----	----	----	96188	78955
Power Factor	29764	29640	28540	27348	25057	22880	20810	18854
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

A3 - #1

Test: 300WM	7	**Gun:** 300WM			**Load:** Default			
Operator:	Optional	**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional		
Test Bay:	Optional	**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains	
Muzl to Scr1:	5.00 feet	**Serial #:**	Optional		**Bullet Style:**	Optional		
Scr1 to Scr3:	20.00 feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.380	G1	
Scr4 to Scr6:	N/A feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional		
Muzl to Trgt:	300.00 feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains	
Target Size:	57.4 inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional		
Temperature:	70 °F	**Gage Factor:**	N/A		**Primer:**	Optional		
Humidity:	40 %	**Outside Dia:**	N/A	inches	**Brass:**	Optional		
Altitude:	750 feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches	
Baro Press:	29.50 in Hg	**Max Press:**	N/A	PSI	**Max Avg Prc...**	Optional		
Wind Speed:	0.0 MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional		
Wind Dir:	6:00 O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional		
Time Scale:	N/A Msec.	**Gage Press/Volt:**	N/A	PSI				
Test Date:	7/11/2007	**Vel Correction:**	0	fps				
Test Time:	10:59	**Press Correction:**	N/A	PSI				

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

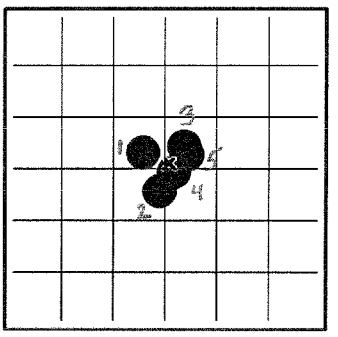
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	3032	2808	0.388	-10.0	5.9
2	2983	2749	0.368	-9.6	4.8
3	2924	2701	0.380	-8.8	5.9
4	2947	2726	0.387	-9.1	5.4
5	2950	2725	0.378	-8.8	6.1

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2967	2742	0.380	-9.3	5.6
SD	42	41	0.008	0.5	0.5
HI	3032	2808	0.388	-8.8	6.1
LO	2924	2701	0.368	-10.0	4.8
ES	108	107	0.020	1.2	1.3

Rad SD: 0.7
Group: 1.5
Mean Radius: 0.6

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.33	-0.22	0.00	-3.17	-11.92	-27.41	-51.10
10 MPH Wind	0.00	0.00	0.19	0.79	3.28	7.71	14.36	23.55
Velocity (fps)	2980	2967	2854	2732	2498	2275	2064	1865
Energy (ft-lbs)	----	----	----	----	----	----	94628	77242
Power Factor	29798	29671	28543	27323	24978	22753	20641	18649
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

A3 - #2

Test:	300WM	8	**Gun:**	300WM		**Load:**	Default
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0 grains
Muzl to Scr1:	5.00 feet		**Serial #:**	Optional		**Bullet Style:**	Optional
Scr1 to Scr3:	20.00 feet		**Bullet Dia:**	1.000 inches		**B.C.:**	0.393 G1
Scr4 to Scr6:	N/A feet		**Barrel Len:**	0.00 inches		**Powder:**	Optional
Muzl to Trgt:	300.00 feet		**Gun Weight:**	1.0 lb		**Powder Wgt:**	10.0 grains
Target Size:	57.4 inches		**Sight Height:**	1.50 inches		**Lot Number:**	Optional
Temperature:	70 °F		**Gage Factor:**	N/A		**Primer:**	Optional
Humidity:	40 %		**Outside Dia:**	N/A inches		**Brass:**	Optional
Altitude:	750 feet		**Inside Dia:**	N/A inches		**Load OAL:**	2.250 inches
Baro Press:	29.50 in Hg		**Max Press:**	N/A PSI		**Max Avg Pre...**	Optional
Wind Speed:	0.0 MPH		**Offset Press:**	N/A PSI		**Avg Velocity:**	Optional
Wind Dir:	6:00 O'clock		**PC/Press:**	N/A PC/PSI		**Note:**	Optional
Time Scale:	N/A Msec.		**Gage Press/Volt:**	N/A PSI			
Test Date:	7/11/2007		**Vel Correction:**	0 fps			
Test Time:	11:01		**Press Correction:**	N/A PSI			

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

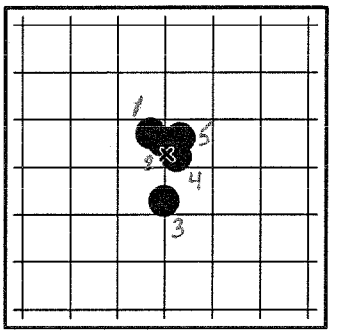
				----Target----	
Rnd	**Vel13**	**Vel-T**	**BC**	**Horz**	**Vert**
1	2921	2703	0.387	-5.1	6.0
2	2963	2746	0.395	-4.7	5.8
3	2963	2748	0.399	-4.7	3.9
4	2980	2761	0.393	-4.3	5.3
5	2963	2743	0.390	-4.2	5.9

SUMMARY

				----Target----	
	Vel13	**Vel-T**	**BC**	**Horz**	**Vert**
Avg	2958	2740	0.393	-4.6	5.4
SD	22	22	0.004	0.4	0.9
HI	2980	2761	0.399	-4.2	6.0
LO	2921	2703	0.387	-5.1	3.9
ES	59	58	0.012	0.9	2.1

Rad SD:	0.9
Group:	2.2
Mean Radius:	0.7

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	**Inst**	**50**	**100**	**200**	**300**	**400**	**500**
Bullet Path (in)	-1.50	-1.33	-0.21	0.00	-3.17	-11.90	-27.29	-50.73
10 MPH Wind	0.00	0.00	0.19	0.76	3.18	7.47	13.88	22.73
Velocity (fps)	2970	2958	2849	2731	2504	2288	2083	1889
Energy (ft-lbs)	----	----	----	----	----	----	96337	79215
Power Factor	29702	29579	28488	27308	25038	22879	20827	18885
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

A3 - #3

Test:	300WM	9	**Gun:**	300WM		**Load:**	Default	
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.382	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	57.4	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	11:05		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

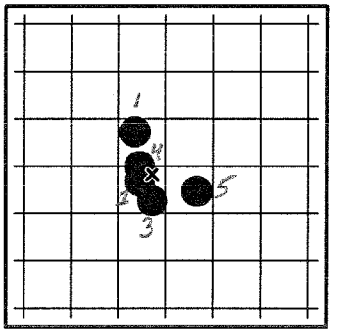
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2952	2734	0.390	-7.7	2.3
2	2947	2722	0.379	-7.5	0.8
3	2968	2746	0.386	-7.1	0.1
4	3010	2789	0.390	-7.5	1.2
5	2978	2744	0.366	-5.7	0.4

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2971	2747	0.382	-7.1	1.0
SD	25	25	0.010	0.8	0.9
HI	3010	2789	0.390	-5.7	2.3
LO	2947	2722	0.366	-7.7	0.1
ES	63	67	0.024	2.0	2.2

Rad SD: 1.2
Group: 2.7
Mean Radius: 0.9

Acoustic



Grid: 1.5 **inches**

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 **YARDS**

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.33	-0.22	0.00	-3.15	-11.86	-27.26	-50.80
10 MPH Wind	0.00	0.00	0.19	0.78	3.25	7.65	14.23	23.34
Velocity (fps)	2984	2971	2859	2737	2504	2282	2072	1873
Energy (ft-lbs)	----	----	----	----	----	----	95342	77936
Power Factor	29839	29713	28589	27374	25040	22823	20719	18732
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

A4 -#1

Test: 300WM		10	**Gun:** 300WM			**Load:** Default		
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.400	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	57.4	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	11:10		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

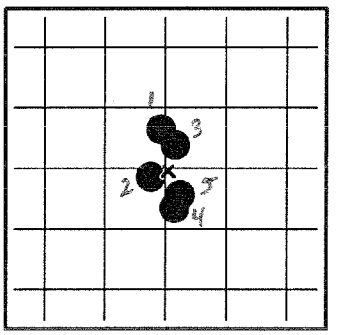
				----Target----	
Rnd	**Vel13**	**Vel-T**	**BC**	**Horz**	**Vert**
1	2964	2752	0.405	-10.5	-2.2
2	3027	2813	0.406	-10.8	-3.8
3	2989	2773	0.399	-10.0	-2.7
4	3005	2785	0.393	-10.0	-4.8
5	2961	2746	0.398	-9.8	-4.4

SUMMARY

				----Target----	
	Vel13	**Vel-T**	**BC**	**Horz**	**Vert**
Avg	2989	2774	0.400	-10.2	-3.6
SD	28	27	0.005	0.4	1.1
HI	3027	2813	0.406	-9.8	-2.2
LO	2961	2746	0.393	-10.8	-4.8
ES	66	67	0.013	1.0	2.6

Rad SD: 1.2
Group: 2.6
Mean Radius: 1.0

Acoustic



Grid: 2.0 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	**Inst**	**50**	**100**	**200**	**300**	**400**	**500**
Bullet Path (in)	-1.50	-1.33	-0.23	0.00	-3.06	-11.52	-26.41	-49.05
10 MPH Wind	0.00	0.00	0.18	0.74	3.07	7.20	13.37	21.87
Velocity (fps)	3001	2989	2881	2765	2540	2326	2123	1930
Energy (ft-lbs)	----	----	----	----	----	----	----	82718
Power Factor	30013	29891	28813	27646	25399	23262	21227	19298
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

A4 - #2

Test: 300WM		11	**Gun:** 300WM			**Load:** Default		
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	**grains**
Muzl to Scr1:	5.00	**feet**	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	**feet**	**Bullet Dia:**	1.000	**inches**	**B.C.:**	0.394	**G1**
Scr4 to Scr6:	N/A	**feet**	**Barrel Len:**	0.00	**inches**	**Powder:**	Optional	
Muzl to Trgt:	300.00	**feet**	**Gun Weight:**	1.0	**lb**	**Powder Wgt:**	10.0	**grains**
Target Size:	57.4	**inches**	**Sight Height:**	1.50	**inches**	**Lot Number:**	Optional	
Temperature:	70	**°F**	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	**%**	**Outside Dia:**	N/A	**inches**	**Brass:**	Optional	
Altitude:	750	**feet**	**Inside Dia:**	N/A	**inches**	**Load OAL:**	2.250	**inches**
Baro Press:	29.50	**in Hg**	**Max Press:**	N/A	**PSI**	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	**MPH**	**Offset Press:**	N/A	**PSI**	**Avg Velocity:**	Optional	
Wind Dir:	6:00	**O'clock**	**PC/Press:**	N/A	**PC/PSI**	**Note:** Optional		
Time Scale:	N/A	**Msec.**	**Gage Press/Volt:**	N/A	**PSI**			
Test Date:	7/11/2007		**Vel Correction:**	0	**fps**			
Test Time:	11:13		**Press Correction:**	N/A	**PSI**			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

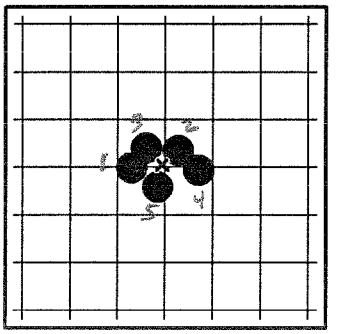
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2962	2747	0.398	-7.5	-4.1
2	2956	2738	0.393	-6.0	-3.6
3	3009	2789	0.393	-7.0	-3.5
4	3011	2788	0.389	-5.4	-4.2
5	3001	2783	0.395	-6.6	-4.7

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2988	2769	0.394	-6.5	-4.0
SD	27	24	0.004	0.8	0.5
HI	3011	2789	0.398	-5.4	-3.5
LO	2956	2738	0.389	-7.5	-4.7
ES	55	51	0.009	2.1	1.2

Rad SD: 1.0
Group: 2.1
Mean Radius: 0.9

Acoustic



Grid: 1.5 **inches**

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 **YARDS**

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.33	-0.23	0.00	-3.08	-11.59	-26.60	-49.47
10 MPH Wind	0.00	0.00	0.18	0.75	3.13	7.35	13.65	22.34
Velocity (fps)	3000	2988	2878	2760	2532	2315	2108	1913
Energy (ft-lbs)	----	----	----	----	----	----	98733	81289
Power Factor	30002	29879	28783	27597	25316	23147	21084	19131
Recoil	----	**ft-lbs**						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

A4 - #3

Test: 300WM		12	Gun: 300WM			Load: Default		
Operator:	Optional		Mfg/Model:	Optional		Bullet Mfg:	Optional	
Test Bay:	Optional		Caliber:	Optional		Bullet Wgt:	10000.0	grains
Muzl to Scr1:	5.00	feet	Serial #:	Optional		Bullet Style:	Optional	
Scr1 to Scr3:	20.00	feet	Bullet Dia:	1.000	inches	B.C.:	0.392	G1
Scr4 to Scr6:	N/A	feet	Barrel Len:	0.00	inches	Powder:	Optional	
Muzl to Trgt:	300.00	feet	Gun Weight:	1.0	lb	Powder Wgt:	10.0	grains
Target Size:	57.4	inches	Sight Height:	1.50	inches	Lot Number:	Optional	
Temperature:	70	°F	Gage Factor:	N/A		Primer:	Optional	
Humidity:	40	%	Outside Dia:	N/A	inches	Brass:	Optional	
Altitude:	750	feet	Inside Dia:	N/A	inches	Load OAL:	2.250	inches
Baro Press:	29.50	in Hg	Max Press:	N/A	PSI	Max Avg Pre...	Optional	
Wind Speed:	0.0	MPH	Offset Press:	N/A	PSI	Avg Velocity:	Optional	
Wind Dir:	6:00	O'clock	PC/Press:	N/A	PC/PSI	Note:	Optional	
Time Scale:	N/A	Msec.	Gage Press/Volt:	N/A	PSI			
Test Date:	7/11/2007		Vel Correction:	0	fps			
Test Time:	11:17		Press Correction:	N/A	PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

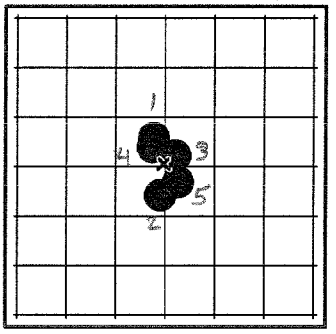
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2981	2768	0.403	-8.8	-7.5
2	2964	2740	0.382	-8.6	-9.2
3	2976	2750	0.380	-8.2	-8.0
4	2996	2778	0.395	-8.9	-7.8
5	2940	2728	0.402	-8.1	-8.8

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2972	2753	0.392	-8.5	-8.3
SD	21	20	0.011	0.4	0.7
HI	2996	2778	0.403	-8.1	-7.5
LO	2940	2728	0.380	-8.9	-9.2
ES	56	50	0.023	0.8	1.7

Rad SD: 0.8
Group: 1.7
Mean Radius: 0.7

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.33	-0.22	0.00	-3.13	-11.76	-26.99	-50.19
10 MPH Wind	0.00	0.00	0.19	0.76	3.16	7.43	13.80	22.60
Velocity (fps)	2984	2972	2862	2744	2516	2299	2093	1898
Energy (ft-lbs)	----	----	----	----	----	----	97288	80008
Power Factor	29840	29716	28621	27436	25157	22989	20929	18980
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

A5 - #1

Test: 300WM		13	**Gun:** 300WM			**Load:** Default		
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.381	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	57.4	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	11:20		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

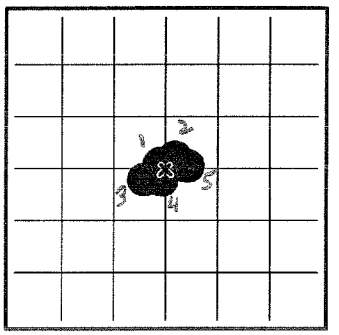
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	3028	2803	0.384	1.9	18.6
2	2947	2720	0.376	2.7	18.6
3	2949	2729	0.387	1.5	18.2
4	2966	2736	0.371	2.0	18.2
5	2992	2768	0.386	2.4	18.8

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2976	2751	0.381	2.1	18.5
SD	34	34	0.007	0.5	0.3
HI	3028	2803	0.387	2.7	18.8
LO	2947	2720	0.371	1.5	18.2
ES	81	83	0.016	1.2	0.6

Rad SD:	0.6
Group:	1.3
Mean Radius:	0.5

Acoustic



Grid: 1.5 **inches**

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.33	-0.22	0.00	-3.14	-11.82	-27.18	-50.67
10 MPH Wind	0.00	0.00	0.19	0.78	3.26	7.66	14.26	23.40
Velocity (fps)	2989	2976	2864	2741	2507	2284	2073	1873
Energy (ft-lbs)	----	----	----	----	----	----	95440	77957
Power Factor	29892	29765	28636	27415	25069	22843	20729	18735
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

A5 - #2

Test: 300WM		14	**Gun:** 300WM			**Load:** Default		
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	**grains**
Muzl to Scr1:	5.00	**feet**	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	**feet**	**Bullet Dia:**	1.000	**inches**	**B.C.:**	0.388	**G1**
Scr4 to Scr6:	N/A	**feet**	**Barrel Len:**	0.00	**inches**	**Powder:**	Optional	
Muzl to Trgt:	300.00	**feet**	**Gun Weight:**	1.0	**lb**	**Powder Wgt:**	10.0	**grains**
Target Size:	57.4	**inches**	**Sight Height:**	1.50	**inches**	**Lot Number:**	Optional	
Temperature:	70	**°F**	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	**%**	**Outside Dia:**	N/A	**inches**	**Brass:**	Optional	
Altitude:	750	**feet**	**Inside Dia:**	N/A	**inches**	**Load OAL:**	2.250	**inches**
Baro Press:	29.50	**in Hg**	**Max Press:**	N/A	**PSI**	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	**MPH**	**Offset Press:**	N/A	**PSI**	**Avg Velocity:**	Optional	
Wind Dir:	6:00	**O'clock**	**PC/Press:**	N/A	**PC/PSI**	**Note:**	Optional	
Time Scale:	N/A	**Msec.**	**Gage Press/Volt:**	N/A	**PSI**			
Test Date:	7/11/2007		**Vel Correction:**	0	**fps**			
Test Time:	11:24		**Press Correction:**	N/A	**PSI**			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

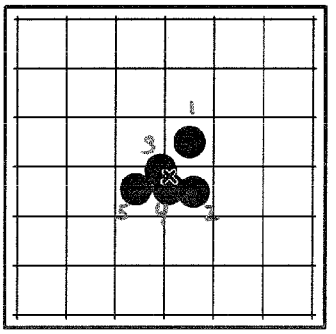
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2974	2751	0.384	6.0	20.9
2	2979	2756	0.384	6.1	19.4
3	2943	2723	0.388	5.1	20.1
4	2936	2719	0.393	5.4	19.5
5	2951	2733	0.392	4.4	19.5

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2957	2736	0.388	5.4	19.9
SD	19	16	0.004	0.7	0.6
HI	2979	2756	0.393	6.1	20.9
LO	2936	2719	0.384	4.4	19.4
ES	43	37	0.009	1.7	1.5

Rad SD: 1.0
Group: 2.2
Mean Radius: 0.8

Acoustic



Grid: 1.5 **inches**

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 **YARDS**

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.33	-0.21	0.00	-3.19	-11.96	-27.44	-51.05
10 MPH Wind	0.00	0.00	0.19	0.77	3.22	7.57	14.08	23.08
Velocity (fps)	2969	2957	2846	2727	2498	2279	2072	1876
Energy (ft-lbs)	----	----	----	----	----	----	95377	78208
Power Factor	29690	29566	28463	27270	24975	22794	20723	18765
Recoil	----	**ft-lbs**						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

A5 - #3

Test: 300WM		15	**Gun:** 300WM			**Load:** Default		
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.379	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	57.4	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	11:27		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

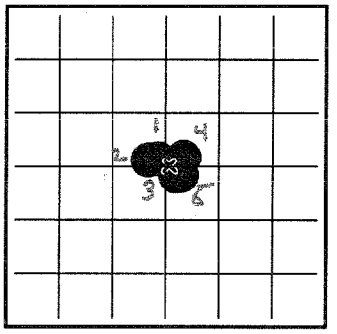
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2917	2699	0.389	3.7	16.6
2	2976	2750	0.381	3.4	16.6
3	2966	2739	0.378	4.2	16.2
4	2980	2760	0.391	4.4	16.7
5	2998	2756	0.355	4.3	16.2

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2967	2741	0.379	4.0	16.4
SD	31	25	0.014	0.4	0.3
HI	2998	2760	0.391	4.4	16.7
LO	2917	2699	0.355	3.4	16.2
ES	81	61	0.036	1.0	0.5

Rad SD: 0.5
Group: 1.0
Mean Radius: 0.4

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.33	-0.22	0.00	-3.17	-11.94	-27.45	-51.20
10 MPH Wind	0.00	0.00	0.19	0.79	3.30	7.75	14.43	23.69
Velocity (fps)	2980	2967	2854	2731	2496	2272	2060	1861
Energy (ft-lbs)	----	----	----	----	----	----	94294	76886
Power Factor	29800	29672	28539	27313	24959	22724	20605	18606
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

A6 - #1

Test: 300WM	16	**Gun:** 300WM			**Load:** Default			
Operator:	Optional	**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional		
Test Bay:	Optional	**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains	
Muzl to Scr1:	5.00 feet	**Serial #:**	Optional		**Bullet Style:**	Optional		
Scr1 to Scr3:	20.00 feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.395	G1	
Scr4 to Scr6:	N/A feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional		
Muzl to Trgt:	300.00 feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains	
Target Size:	57.4 inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional		
Temperature:	70 °F	**Gage Factor:**	N/A		**Primer:**	Optional		
Humidity:	40 %	**Outside Dia:**	N/A	inches	**Brass:**	Optional		
Altitude:	750 feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches	
Baro Press:	29.50 in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional		
Wind Speed:	0.0 MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional		
Wind Dir:	6:00 O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional		
Time Scale:	N/A Msec.	**Gage Press/Volt:**	N/A	PSI				
Test Date:	7/11/2007	**Vel Correction:**	0	fps				
Test Time:	11:31	**Press Correction:**	N/A	PSI				

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

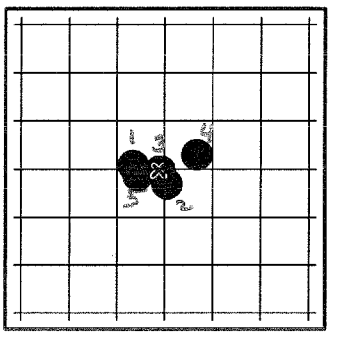
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	3012	2796	0.401	0.7	12.7
2	2999	2775	0.386	1.8	12.2
3	3012	2792	0.394	1.6	12.5
4	2975	2758	0.395	2.7	13.1
5	2942	2728	0.398	0.9	12.4

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2988	2770	0.395	1.5	12.6
SD	30	28	0.006	0.8	0.3
HI	3012	2796	0.401	2.7	13.1
LO	2942	2728	0.386	0.7	12.2
ES	70	68	0.015	2.0	0.9

Rad SD:	0.9
Group:	2.0
Mean Radius:	0.7

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.33	-0.23	0.00	-3.07	-11.57	-26.57	-49.39
10 MPH Wind	0.00	0.00	0.18	0.75	3.12	7.32	13.59	22.25
Velocity (fps)	3000	2988	2879	2760	2533	2317	2111	1916
Energy (ft-lbs)	----	----	----	----	----	----	98985	81560
Power Factor	30002	29879	28787	27604	25330	23168	21111	19163
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

A6 - #2

Test: 300WM	17	**Gun:** 300WM			**Load:** Default			
Operator:	Optional	**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional		
Test Bay:	Optional	**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains	
Muzl to Scr1:	5.00 feet	**Serial #:**	Optional		**Bullet Style:**	Optional		
Scr1 to Scr3:	20.00 feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.393	G1	
Scr4 to Scr6:	N/A feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional		
Muzl to Trgt:	300.00 feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains	
Target Size:	57.4 inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional		
Temperature:	70 °F	**Gage Factor:**	N/A		**Primer:**	Optional		
Humidity:	40 %	**Outside Dia:**	N/A	inches	**Brass:**	Optional		
Altitude:	750 feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches	
Baro Press:	29.50 in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional		
Wind Speed:	0.0 MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional		
Wind Dir:	6:00 O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional		
Time Scale:	N/A Msec.	**Gage Press/Volt:**	N/A	PSI				
Test Date:	7/11/2007	**Vel Correction:**	0	fps				
Test Time:	11:35	**Press Correction:**	N/A	PSI				

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

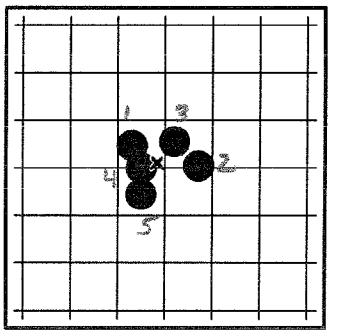
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2977	2760	0.395	4.6	14.0
2	2984	2768	0.397	6.7	13.3
3	2960	2737	0.383	5.9	14.1
4	2990	2772	0.396	4.9	13.2
5	2949	2732	0.394	4.9	12.4

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2972	2754	0.393	5.4	13.4
SD	17	18	0.006	0.9	0.7
HI	2990	2772	0.397	6.7	14.1
LO	2949	2732	0.383	4.6	12.4
ES	41	40	0.014	2.1	1.7

Rad SD: 1.1
Group: 2.2
Mean Radius: 1.0

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.33	-0.22	0.00	-3.13	-11.76	-26.97	-50.15
10 MPH Wind	0.00	0.00	0.19	0.76	3.16	7.42	13.79	22.58
Velocity (fps)	2984	2972	2863	2744	2516	2300	2094	1899
Energy (ft-lbs)	----	----	----	----	----	----	97376	80095
Power Factor	29844	29721	28627	27442	25164	22998	20939	18990
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

A6 -#3

Test: 300WM	18	**Gun:** 300WM			**Load:** Default		
Operator: Optional		**Mfg/Model:** Optional			**Bullet Mfg:** Optional		
Test Bay: Optional		**Caliber:** Optional			**Bullet Wgt:** 10000.0	grains	
Muzl to Scr1: 5.00	feet	**Serial #:** Optional			**Bullet Style:** Optional		
Scr1 to Scr3: 20.00	feet	**Bullet Dia:** 1.000	inches		**B.C.:** 0.395	G1	
Scr4 to Scr6: N/A	feet	**Barrel Len:** 0.00	inches		**Powder:** Optional		
Muzl to Trgt: 300.00	feet	**Gun Weight:** 1.0	lb		**Powder Wgt:** 10.0	grains	
Target Size: 57.4	inches	**Sight Height:** 1.50	inches		**Lot Number:** Optional		
Temperature: 70	°F	**Gage Factor:** N/A			**Primer:** Optional		
Humidity: 40	%	**Outside Dia:** N/A	inches		**Brass:** Optional		
Altitude: 750	feet	**Inside Dia:** N/A	inches		**Load OAL:** 2.250	inches	
Baro Press: 29.50	in Hg	**Max Press:** N/A	PSI		**Max Avg Pre...** Optional		
Wind Speed: 0.0	MPH	**Offset Press:** N/A	PSI		**Avg Velocity:** Optional		
Wind Dir: 6:00	O'clock	**PC/Press:** N/A	PC/PSI		**Note:** Optional		
Time Scale: N/A	Msec.	**Gage Press/Volt:** N/A	PSI				
Test Date: 7/11/2007		**Vel Correction:** 0	fps				
Test Time: 11:37		**Press Correction:** N/A	PSI				

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

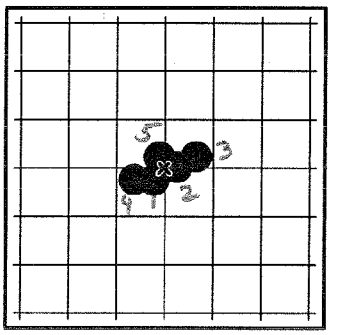
				----Target----	
Rnd	**Vel13**	**Vel-T**	**BC**	**Horz**	**Vert**
1	3015	2801	0.406	3.3	8.7
2	3001	2777	0.385	4.0	9.1
3	2976	2761	0.399	4.6	9.4
4	3052	2826	0.386	2.7	8.7
5	2957	2742	0.398	3.5	9.4

SUMMARY

				----Target----	
	Vel13	**Vel-T**	**BC**	**Horz**	**Vert**
Avg	3000	2781	0.395	3.6	9.1
SD	37	33	0.009	0.7	0.4
HI	3052	2826	0.406	4.6	9.4
LO	2957	2742	0.385	2.7	8.7
ES	95	84	0.021	1.9	0.7

Rad SD: 0.8
Group: 2.1
Mean Radius: 0.7

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	**Inst**	**50**	**100**	**200**	**300**	**400**	**500**
Bullet Path (in)	-1.50	-1.33	-0.23	0.00	-3.03	-11.45	-26.30	-48.92
10 MPH Wind	0.00	0.00	0.18	0.75	3.10	7.28	13.52	22.13
Velocity (fps)	3012	3000	2890	2772	2544	2327	2121	1925
Energy (ft-lbs)	----	----	----	----	----	----	99884	82323
Power Factor	30124	30001	28905	27719	25438	23269	21207	19252
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

B1 - #1

Test:	30.06	1	**Gun:**	300WM		**Load:**	Default	
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.358	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	13:04		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

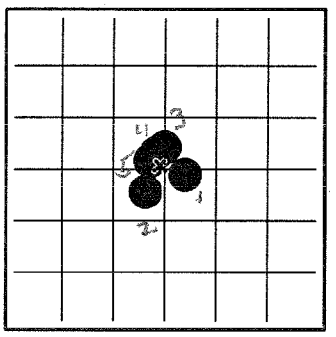
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2582	2359	0.353	2.1	3.9
2	2581	2365	0.363	1.0	3.4
3	2531	2314	0.358	1.5	4.7
4	2563	2347	0.363	1.3	4.5
5	2582	2359	0.353	1.1	4.3

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2568	2349	0.358	1.4	4.2
SD	22	21	0.005	0.5	0.5
HI	2582	2365	0.363	2.1	4.7
LO	2531	2314	0.353	1.0	3.4
ES	51	51	0.010	1.1	1.3

Rad SD: 0.7
Group: 1.4
Mean Radius: 0.6

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.29	-0.03	0.00	-4.87	-17.57	-39.96	-74.53
10 MPH Wind	0.00	0.00	0.25	1.03	4.32	10.23	19.18	31.64
Velocity (fps)	2580	2568	2458	2340	2112	1898	1698	1516
Energy (ft-lbs)	----	----	----	----	99075	79991	64050	51038
Power Factor	25800	25677	24582	23396	21121	18978	16982	15159
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

B1 -#2

Test: 30.06		2	**Gun:** 300WM			**Load:** Default		
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.342	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	13:11		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

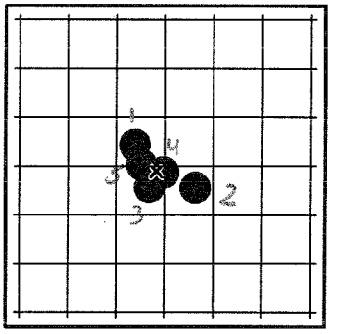
				----Target----	
Rnd	**Vel13**	**Vel-T**	**BC**	**Horz**	**Vert**
1	2628	2394	0.338	4.2	4.9
2	2599	2347	0.312	6.1	3.6
3	2575	2355	0.358	4.7	3.6
4	2578	2357	0.355	5.1	4.1
5	2568	2342	0.346	4.4	4.3

SUMMARY

				----Target----	
	Vel13	**Vel-T**	**BC**	**Horz**	**Vert**
Avg	2590	2359	0.342	4.9	4.1
SD	25	20	0.018	0.7	0.5
HI	2628	2394	0.358	6.1	4.9
LO	2568	2342	0.312	4.2	3.6
ES	60	52	0.046	1.9	1.3

Rad SD: 0.9
Group: 2.3
Mean Radius: 0.7

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 **YARDS**

	Muzl	**Inst**	**50**	**100**	**200**	**300**	**400**	**500**
Bullet Path (in)	-1.50	-1.29	-0.04	0.00	-4.82	-17.47	-39.93	-74.87
10 MPH Wind	0.00	0.00	0.26	1.06	4.48	10.65	20.03	33.13
Velocity (fps)	2603	2590	2475	2350	2111	1887	1680	1491
Energy (ft-lbs)	----	----	----	----	99012	79113	62650	49377
Power Factor	26028	25898	24746	23500	21114	18873	16795	14910
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

B1 - #3

Test:	30.06	3	**Gun:**	300WM		**Load:**	Default	
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.356	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	13:16		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

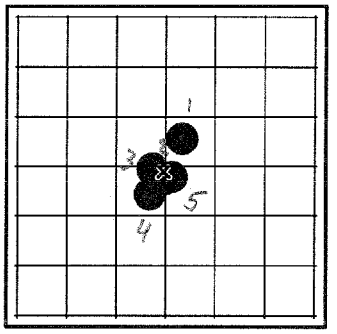
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2608	2382	0.349	3.3	1.3
2	2608	2386	0.356	2.9	0.1
3	2583	2371	0.370	2.4	0.3
4	2578	2353	0.349	2.3	-0.4
5	2595	2372	0.354	2.7	0.0

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2594	2373	0.356	2.7	0.3
SD	14	13	0.009	0.4	0.6
HI	2608	2386	0.370	3.3	1.3
LO	2578	2353	0.349	2.3	-0.4
ES	30	33	0.021	1.0	1.7

Rad SD: 0.7
Group: 1.9
Mean Radius: 0.6

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.29	-0.05	0.00	-4.74	-17.16	-39.08	-72.95
10 MPH Wind	0.00	0.00	0.25	1.02	4.28	10.14	19.03	31.40
Velocity (fps)	2607	2594	2484	2364	2133	1916	1714	1529
Energy (ft-lbs)	----	----	----	----	----	81565	65257	51932
Power Factor	26070	25945	24836	23636	21333	19163	17141	15291
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

B2 - #1

Test:	30.06	4	**Gun:**	300WM		**Load:**	Default
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0 grains
Muzl to Scr1:	5.00 feet		**Serial #:**	Optional		**Bullet Style:**	Optional
Scr1 to Scr3:	20.00 feet		**Bullet Dia:**	1.000 inches		**B.C.:**	0.354 G1
Scr4 to Scr6:	N/A feet		**Barrel Len:**	0.00 inches		**Powder:**	Optional
Muzl to Trgt:	300.00 feet		**Gun Weight:**	1.0 lb		**Powder Wgt:**	10.0 grains
Target Size:	56.0 inches		**Sight Height:**	1.50 inches		**Lot Number:**	Optional
Temperature:	70 °F		**Gage Factor:**	N/A		**Primer:**	Optional
Humidity:	40 %		**Outside Dia:**	N/A inches		**Brass:**	Optional
Altitude:	750 feet		**Inside Dia:**	N/A inches		**Load OAL:**	2.250 inches
Baro Press:	29.50 in Hg		**Max Press:**	N/A PSI		**Max Avg Pre...**	Optional
Wind Speed:	0.0 MPH		**Offset Press:**	N/A PSI		**Avg Velocity:**	Optional
Wind Dir:	6:00 O'clock		**PC/Press:**	N/A PC/PSI		**Note:**	Optional
Time Scale:	N/A Msec.		**Gage Press/Volt:**	N/A PSI			
Test Date:	7/11/2007		**Vel Correction:**	0 fps			
Test Time:	13:19		**Press Correction:**	N/A PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

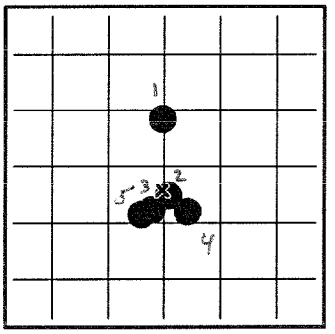
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2584	2357	0.345	1.5	-0.9
2	2590	2357	0.339	1.7	-3.6
3	2595	2380	0.367	1.1	-4.1
4	2573	2344	0.341	2.4	-4.2
5	2603	2394	0.379	0.8	-4.3

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2589	2366	0.354	1.5	-3.4
SD	11	20	0.018	0.6	1.4
HI	2603	2394	0.379	2.4	-0.9
LO	2573	2344	0.339	0.8	-4.3
ES	30	50	0.040	1.6	3.4

Rad SD: 1.6
Group: 3.5
Mean Radius: 1.2

Acoustic



Grid: 2.0 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.29	-0.04	0.00	-4.78	-17.27	-39.35	-73.48
10 MPH Wind	0.00	0.00	0.25	1.03	4.31	10.22	19.18	31.66
Velocity (fps)	2602	2589	2478	2358	2127	1909	1707	1522
Energy (ft-lbs)	----	----	----	----	----	80965	64702	51439
Power Factor	26016	25890	24778	23575	21267	19093	17068	15218
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

B2 - #2

Test:	30.06	5	**Gun:**	300WM		**Load:**	Default
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0 grains
Muzl to Scr1:	5.00 feet		**Serial #:**	Optional		**Bullet Style:**	Optional
Scr1 to Scr3:	20.00 feet		**Bullet Dia:**	1.000 inches		**B.C.:**	0.361 G1
Scr4 to Scr6:	N/A feet		**Barrel Len:**	0.00 inches		**Powder:**	Optional
Muzl to Trgt:	300.00 feet		**Gun Weight:**	1.0 lb		**Powder Wgt:**	10.0 grains
Target Size:	56.0 inches		**Sight Height:**	1.50 inches		**Lot Number:**	Optional
Temperature:	70 °F		**Gage Factor:**	N/A		**Primer:**	Optional
Humidity:	40 %		**Outside Dia:**	N/A inches		**Brass:**	Optional
Altitude:	750 feet		**Inside Dia:**	N/A inches		**Load OAL:**	2.250 inches
Baro Press:	29.50 in Hg		**Max Press:**	N/A PSI		**Max Avg Pre...**	Optional
Wind Speed:	0.0 MPH		**Offset Press:**	N/A PSI		**Avg Velocity:**	Optional
Wind Dir:	6:00 O'clock		**PC/Press:**	N/A PC/PSI		**Note:**	Optional
Time Scale:	N/A Msec.		**Gage Press/Volt:**	N/A PSI			
Test Date:	7/11/2007		**Vel Correction:**	0 fps			
Test Time:	13:22		**Press Correction:**	N/A PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

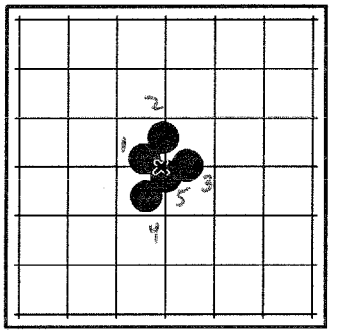
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2608	2387	0.359	4.3	-3.4
2	2569	2356	0.367	4.9	-2.8
3	2574	2353	0.355	5.6	-3.6
4	2605	2386	0.361	4.4	-4.6
5	2578	2362	0.365	5.0	-4.0

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2587	2369	0.361	4.8	-3.7
SD	18	17	0.005	0.5	0.7
HI	2608	2387	0.367	5.6	-2.8
LO	2569	2353	0.355	4.3	-4.6
ES	39	34	0.012	1.3	1.8

Rad SD: 0.8
Group: 1.9
Mean Radius: 0.7

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.29	-0.04	0.00	-4.76	-17.19	-39.10	-72.87
10 MPH Wind	0.00	0.00	0.25	1.01	4.22	10.00	18.75	30.92
Velocity (fps)	2599	2587	2478	2360	2133	1920	1720	1537
Energy (ft-lbs)	----	----	----	----	----	81842	65721	52496
Power Factor	25990	25867	24778	23598	21332	19196	17202	15374
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

B2 - #3

Test:	30.06	6	**Gun:**	300WM		**Load:**	Default	
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.350	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	13:25		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

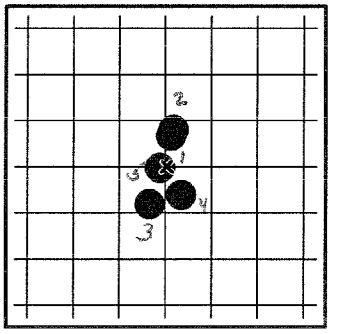
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2576	2357	0.358	2.7	-6.9
2	2542	2315	0.342	2.8	-6.7
3	2606	2391	0.367	2.0	-9.1
4	2592	2364	0.345	3.0	-8.8
5	2598	2365	0.339	2.4	-8.0

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2583	2358	0.350	2.6	-7.9
SD	25	28	0.012	0.4	1.1
HI	2606	2391	0.367	3.0	-6.7
LO	2542	2315	0.339	2.0	-9.1
ES	64	76	0.028	1.0	2.4

Rad SD:	1.2
Group:	2.5
Mean Radius:	1.0

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.29	-0.04	0.00	-4.82	-17.44	-39.76	-74.33
10 MPH Wind	0.00	0.00	0.25	1.04	4.38	10.39	19.51	32.22
Velocity (fps)	2596	2583	2471	2349	2116	1897	1694	1508
Energy (ft-lbs)	----	----	----	----	99480	79953	63707	50512
Power Factor	25956	25829	24707	23492	21164	18973	16936	15081
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

B3 - #1

Test:	30.06	7	**Gun:**	300WM		**Load:**	Default
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0 grains
Muzl to Scr1:	5.00 feet		**Serial #:**	Optional		**Bullet Style:**	Optional
Scr1 to Scr3:	20.00 feet		**Bullet Dia:**	1.000 inches		**B.C.:**	0.366 G1
Scr4 to Scr6:	N/A feet		**Barrel Len:**	0.00 inches		**Powder:**	Optional
Muzl to Trgt:	300.00 feet		**Gun Weight:**	1.0 lb		**Powder Wgt:**	10.0 grains
Target Size:	56.0 inches		**Sight Height:**	1.50 inches		**Lot Number:**	Optional
Temperature:	70 °F		**Gage Factor:**	N/A		**Primer:**	Optional
Humidity:	40 %		**Outside Dia:**	N/A inches		**Brass:**	Optional
Altitude:	750 feet		**Inside Dia:**	N/A inches		**Load OAL:**	2.250 inches
Baro Press:	29.50 in Hg		**Max Press:**	N/A PSI		**Max Avg Pre...**	Optional
Wind Speed:	0.0 MPH		**Offset Press:**	N/A PSI		**Avg Velocity:**	Optional
Wind Dir:	6:00 O'clock		**PC/Press:**	N/A PC/PSI		**Note:**	Optional
Time Scale:	N/A Msec.		**Gage Press/Volt:**	N/A PSI			
Test Date:	7/11/2007		**Vel Correction:**	0 fps			
Test Time:	13:29		**Press Correction:**	N/A PSI			

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

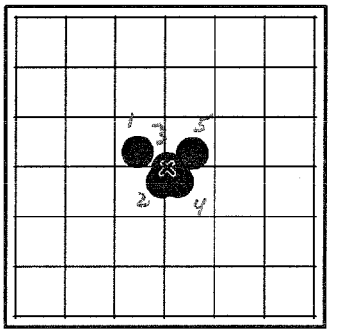
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2560	2339	0.354	14.7	21.7
2	2585	2378	0.380	15.5	20.8
3	2582	2373	0.376	15.6	21.2
4	2563	2346	0.362	16.0	20.8
5	2578	2358	0.356	16.4	21.7

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2574	2359	0.366	15.6	21.3
SD	12	17	0.012	0.6	0.4
HI	2585	2378	0.380	16.4	21.7
LO	2560	2339	0.354	14.7	20.8
ES	25	39	0.026	1.7	0.9

Rad SD: 0.8
Group: 1.7
Mean Radius: 0.6

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.29	-0.04	0.00	-4.82	-17.35	-39.40	-73.32
10 MPH Wind	0.00	0.00	0.24	1.00	4.20	9.95	18.64	30.71
Velocity (fps)	2586	2574	2466	2350	2126	1915	1719	1538
Energy (ft-lbs)	----	----	----	----	----	81493	65596	52528
Power Factor	25858	25737	24663	23499	21264	19155	17185	15379
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

B3 - #2

Test:	30.06	8	**Gun:**	300WM		**Load:**	Default	
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.366	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	13:31		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

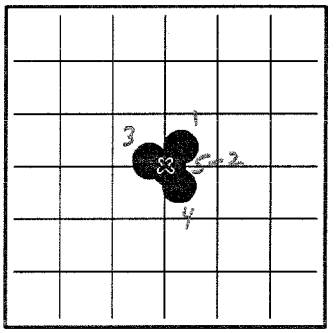
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2577	2358	0.359	14.5	17.8
2	2601	2381	0.359	13.7	17.4
3	2568	2361	0.380	13.6	17.5
4	2593	2373	0.358	14.5	16.7
5	2600	2387	0.372	14.2	17.2

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2588	2372	0.366	14.1	17.3
SD	15	12	0.010	0.4	0.4
HI	2601	2387	0.380	14.5	17.8
LO	2568	2358	0.358	13.6	16.7
ES	33	29	0.022	0.9	1.1

Rad SD: 0.6
Group: 1.1
Mean Radius: 0.5

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.29	-0.04	0.00	-4.75	-17.12	-38.89	-72.39
10 MPH Wind	0.00	0.00	0.24	0.99	4.17	9.87	18.49	30.46
Velocity (fps)	2600	2588	2480	2363	2139	1927	1729	1548
Energy (ft-lbs)	----	----	----	----	----	82495	66430	53206
Power Factor	25998	25876	24798	23631	21389	19272	17294	15477
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

B3- #3

Test:	30.06	9	**Gun:**	300WM		**Load:**	Default	
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.367	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	13:35		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

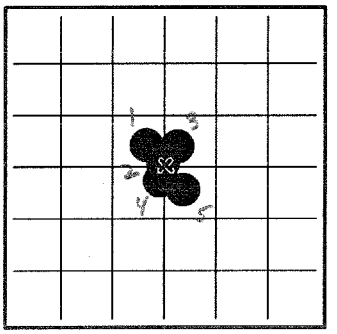
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2548	2337	0.370	17.4	18.1
2	2593	2382	0.374	17.9	17.6
3	2588	2365	0.352	18.3	18.1
4	2597	2387	0.377	17.8	17.1
5	2563	2346	0.360	18.4	16.8

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2578	2364	0.367	17.9	17.6
SD	21	22	0.010	0.4	0.6
HI	2597	2387	0.377	18.4	18.1
LO	2548	2337	0.352	17.4	16.8
ES	49	50	0.025	1.0	1.3

Rad SD: 0.7
Group: 1.7
Mean Radius: 0.6

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.29	-0.04	0.00	-4.79	-17.26	-39.19	-72.92
10 MPH Wind	0.00	0.00	0.24	1.00	4.18	9.89	18.52	30.52
Velocity (fps)	2590	2578	2471	2355	2132	1921	1724	1543
Energy (ft-lbs)	----	----	----	----	----	81956	66026	52914
Power Factor	25901	25780	24708	23546	21315	19209	17242	15435
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

B4 - #1

Test:	30.06	10	**Gun:**	300WM		**Load:**	Default	
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.357	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	13:39		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

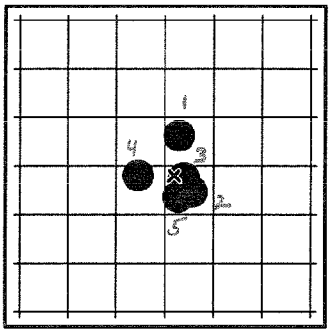
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2584	2369	0.365	16.1	13.4
2	2645	2425	0.362	16.5	11.7
3	2623	2399	0.353	16.3	12.1
4	2578	2348	0.342	14.8	12.2
5	2594	2378	0.365	16.1	11.5

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2605	2384	0.357	16.0	12.2
SD	28	29	0.010	0.6	0.7
HI	2645	2425	0.365	16.5	13.4
LO	2578	2348	0.342	14.8	11.5
ES	67	77	0.023	1.7	1.9

Rad SD: 1.0
Group: 1.9
Mean Radius: 0.8

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.30	-0.05	0.00	-4.69	-16.96	-38.63	-72.08
10 MPH Wind	0.00	0.00	0.25	1.01	4.23	10.03	18.80	31.02
Velocity (fps)	2617	2605	2494	2374	2145	1928	1726	1541
Energy (ft-lbs)	----	----	----	----	----	82563	66156	52716
Power Factor	26172	26048	24942	23744	21447	19280	17259	15406
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

B4 - #2

Test: 30.06		11	**Gun:** 300WM			**Load:** Default		
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.361	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	13:41		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

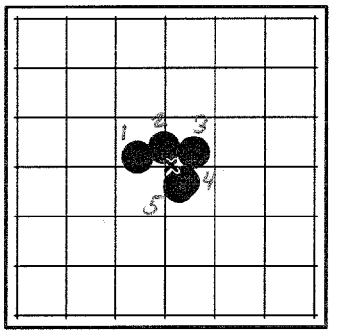
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2594	2366	0.345	13.3	9.2
2	2556	2344	0.370	14.1	9.5
3	2600	2383	0.364	15.0	9.3
4	2570	2356	0.365	14.7	8.4
5	2595	2375	0.359	14.6	8.3

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2583	2365	0.361	14.3	8.9
SD	19	15	0.010	0.7	0.5
HI	2600	2383	0.370	15.0	9.5
LO	2556	2344	0.345	13.3	8.3
ES	44	39	0.025	1.7	1.2

Rad SD: 0.9
Group: 1.7
Mean Radius: 0.7

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.29	-0.04	0.00	-4.79	-17.27	-39.28	-73.21
10 MPH Wind	0.00	0.00	0.25	1.01	4.25	10.05	18.85	31.08
Velocity (fps)	2595	2583	2474	2356	2129	1915	1715	1533
Energy (ft-lbs)	----	----	----	----	----	81447	65357	52171
Power Factor	25954	25831	24739	23557	21289	19150	17154	15326
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

B4 - #3

Test:	30.06	12	**Gun:**	300WM		**Load:**	Default	
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.361	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	13:45		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

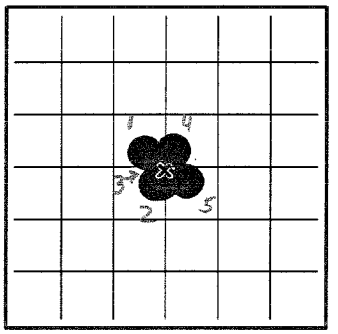
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2578	2369	0.376	17.4	8.7
2	2608	2380	0.346	17.7	7.8
3	2608	2391	0.365	17.9	7.8
4	2609	2396	0.371	18.2	8.7
5	2586	2358	0.345	18.6	7.8

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2598	2379	0.361	18.0	8.2
SD	15	15	0.014	0.5	0.5
HI	2609	2396	0.376	18.6	8.7
LO	2578	2358	0.345	17.4	7.8
ES	31	38	0.031	1.2	0.9

Rad SD: 0.7
Group: 1.4
Mean Radius: 0.6

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.30	-0.05	0.00	-4.71	-17.02	-38.73	-72.20
10 MPH Wind	0.00	0.00	0.24	1.00	4.21	9.96	18.67	30.79
Velocity (fps)	2610	2598	2488	2370	2142	1928	1727	1544
Energy (ft-lbs)	----	----	----	----	----	82539	66273	52921
Power Factor	26101	25977	24883	23698	21423	19278	17274	15436
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

B5 - #1

Test: 30.06	13	**Gun:** 300WM			**Load:** Default		
Operator:	Optional	**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional	**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00 feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00 feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.351	G1
Scr4 to Scr6:	N/A feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00 feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0 inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70 °F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40 %	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750 feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50 in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0 MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00 O'clock	**PC/Press:**	N/A	PC/PSI	**Note:** Optional		
Time Scale:	N/A Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007	**Vel Correction:**	0	fps			
Test Time:	13:49	**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

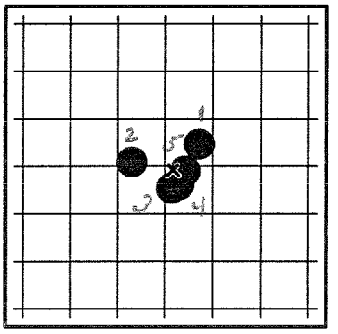
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2611	2381	0.344	17.9	5.9
2	2608	2393	0.368	15.8	5.3
3	2586	2373	0.368	17.1	4.5
4	2601	2356	0.322	17.3	4.6
5	2605	2383	0.356	17.5	5.1

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2602	2377	0.351	17.1	5.1
SD	10	14	0.019	0.8	0.6
HI	2611	2393	0.368	17.9	5.9
LO	2586	2356	0.322	15.8	4.5
ES	25	37	0.046	2.1	1.4

Rad SD: 1.0
Group: 2.2
Mean Radius: 0.8

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.30	-0.05	0.00	-4.72	-17.10	-39.00	-72.90
10 MPH Wind	0.00	0.00	0.25	1.03	4.32	10.24	19.22	31.75
Velocity (fps)	2615	2602	2490	2368	2135	1915	1711	1524
Energy (ft-lbs)	----	----	----	----	----	81476	65002	51582
Power Factor	26150	26023	24899	23682	21349	19153	17108	15239
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

B5- #2

Test:	30.06	14	**Gun:**	300WM		**Load:**	Default	
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.368	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	13:51		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

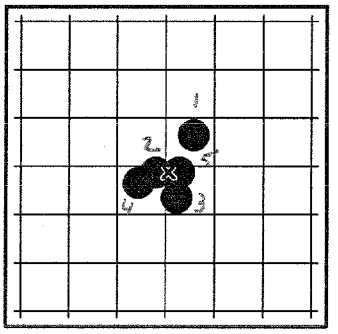
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2564	2346	0.359	15.2	2.3
2	2604	2391	0.371	14.0	1.1
3	2591	2377	0.368	14.6	0.4
4	2593	2383	0.374	13.4	0.8
5	2589	2376	0.370	14.7	1.2

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2588	2374	0.368	14.4	1.2
SD	15	17	0.006	0.7	0.7
HI	2604	2391	0.374	15.2	2.3
LO	2564	2346	0.359	13.4	0.4
ES	40	45	0.015	1.8	1.9

Rad SD: 1.0
Group: 2.3
Mean Radius: 0.8

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.29	-0.04	0.00	-4.73	-17.06	-38.75	-72.06
10 MPH Wind	0.00	0.00	0.24	0.99	4.13	9.78	18.30	30.15
Velocity (fps)	2600	2588	2481	2365	2143	1932	1736	1555
Energy (ft-lbs)	----	----	----	----	----	82943	66921	53700
Power Factor	26001	25881	24812	23653	21427	19325	17358	15549
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

B5 - #3

Test:	30.06	15	**Gun:**	300WM		**Load:**	Default	
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.361	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	13:54		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

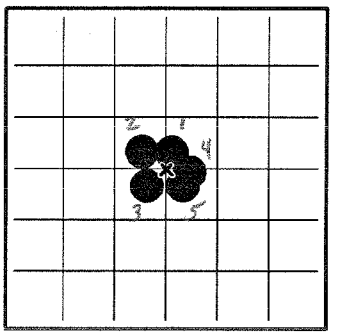
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2563	2355	0.376	18.9	1.7
2	2588	2377	0.373	18.0	1.8
3	2593	2371	0.356	18.2	0.8
4	2589	2376	0.369	19.4	1.2
5	2575	2340	0.334	19.2	0.8

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2582	2364	0.361	18.7	1.2
SD	12	16	0.017	0.6	0.5
HI	2593	2377	0.376	19.4	1.8
LO	2563	2340	0.334	18.0	0.8
ES	30	37	0.042	1.4	1.0

Rad SD: 0.8
Group: 1.6
Mean Radius: 0.7

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.29	-0.04	0.00	-4.79	-17.28	-39.29	-73.22
10 MPH Wind	0.00	0.00	0.25	1.01	4.24	10.04	18.81	31.01
Velocity (fps)	2594	2582	2473	2355	2129	1915	1716	1534
Energy (ft-lbs)	----	----	----	----	----	81472	65411	52243
Power Factor	25940	25817	24729	23550	21286	19152	17161	15337
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

B6 - #1

Test:	30.06	16	**Gun:**	300WM		**Load:**	Default	
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.366	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	13:57		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

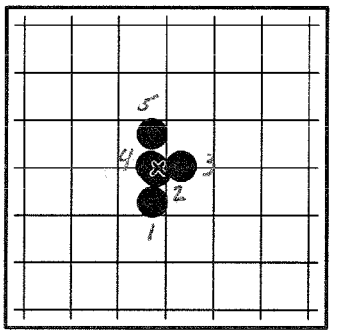
				----Target----	
Rnd	**Vel13**	**Vel-T**	**BC**	**Horz**	**Vert**
1	2607	2395	0.374	14.7	-6.3
2	2642	2418	0.356	14.8	-5.3
3	2563	2349	0.365	15.6	-5.2
4	2573	2356	0.362	14.7	-5.2
5	2588	2378	0.375	14.7	-4.1

SUMMARY

				----Target----	
	Vel13	**Vel-T**	**BC**	**Horz**	**Vert**
Avg	2594	2379	0.366	14.9	-5.2
SD	31	28	0.008	0.4	0.8
HI	2642	2418	0.375	15.6	-4.1
LO	2563	2349	0.356	14.7	-6.3
ES	79	69	0.019	0.9	2.2

Rad SD: 0.9
Group: 2.2
Mean Radius: 0.7

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 **YARDS**

	Muzl	**Inst**	**50**	**100**	**200**	**300**	**400**	**500**
Bullet Path (in)	-1.50	-1.30	-0.05	0.00	-4.71	-16.99	-38.61	-71.85
10 MPH Wind	0.00	0.00	0.24	0.99	4.14	9.80	18.36	30.25
Velocity (fps)	2607	2594	2487	2370	2146	1934	1737	1555
Energy (ft-lbs)	----	----	----	----	----	83110	66976	53676
Power Factor	26066	25945	24868	23701	21460	19344	17365	15546
Recoil	----	**ft-lbs**						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

B6 - #2

Test:	30.06	17	**Gun:**	300WM		**Load:**	Default	
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.365	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	13:59		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

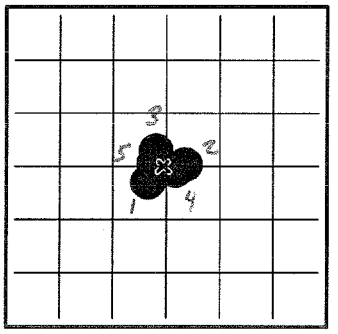
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2624	2405	0.363	12.4	-9.6
2	2601	2389	0.374	13.4	-9.1
3	2582	2358	0.351	12.6	-8.8
4	2581	2369	0.372	13.2	-9.3
5	2599	2383	0.365	12.6	-9.1

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2597	2381	0.365	12.9	-9.2
SD	17	18	0.009	0.4	0.3
HI	2624	2405	0.374	13.4	-8.8
LO	2581	2358	0.351	12.4	-9.6
ES	43	47	0.023	1.0	0.8

Rad SD: 0.5
Group: 1.1
Mean Radius: 0.5

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.30	-0.05	0.00	-4.70	-16.96	-38.56	-71.80
10 MPH Wind	0.00	0.00	0.24	0.99	4.15	9.83	18.41	30.34
Velocity (fps)	2610	2597	2489	2372	2147	1935	1736	1553
Energy (ft-lbs)	----	----	----	----	----	83125	66934	53598
Power Factor	26095	25973	24892	23720	21470	19346	17360	15534
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

BC - #3

Test:	30.06	18	**Gun:**	300WM		**Load:**	Default	
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.362	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	14:02		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

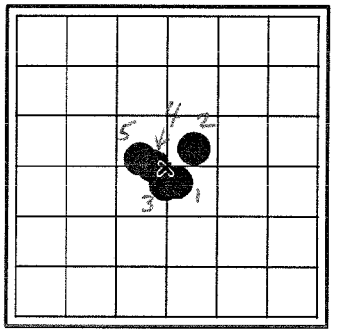
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2592	2376	0.364	16.9	-9.4
2	2585	2370	0.366	17.4	-8.4
3	2604	2381	0.354	16.5	-9.4
4	2596	2384	0.371	16.2	-8.9
5	2589	2368	0.355	15.8	-8.7

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2593	2376	0.362	16.6	-9.0
SD	7	7	0.007	0.6	0.5
HI	2604	2384	0.371	17.4	-8.4
LO	2585	2368	0.354	15.8	-9.4
ES	19	16	0.017	1.6	1.0

Rad SD: 0.8
Group: 1.6
Mean Radius: 0.6

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.29	-0.05	0.00	-4.73	-17.07	-38.83	-72.35
10 MPH Wind	0.00	0.00	0.24	1.00	4.20	9.94	18.63	30.72
Velocity (fps)	2606	2593	2485	2367	2140	1926	1727	1544
Energy (ft-lbs)	----	----	----	----	----	82423	66232	52932
Power Factor	26057	25934	24845	23666	21401	19264	17269	15438
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

C1 - #1

Test: .243		1	Gun: 300WM			Load: Default		
Operator:	Optional		Mfg/Model:	Optional		Bullet Mfg:	Optional	
Test Bay:	Optional		Caliber:	Optional		Bullet Wgt:	10000.0	grains
Muzl to Scr1:	5.00	feet	Serial #:	Optional		Bullet Style:	Optional	
Scr1 to Scr3:	20.00	feet	Bullet Dia:	1.000	inches	B.C.:	0.261	G1
Scr4 to Scr6:	N/A	feet	Barrel Len:	0.00	inches	Powder:	Optional	
Muzl to Trgt:	300.00	feet	Gun Weight:	1.0	lb	Powder Wgt:	10.0	grains
Target Size:	56.0	inches	Sight Height:	1.50	inches	Lot Number:	Optional	
Temperature:	70	°F	Gage Factor:	N/A		Primer:	Optional	
Humidity:	40	%	Outside Dia:	N/A	inches	Brass:	Optional	
Altitude:	750	feet	Inside Dia:	N/A	inches	Load OAL:	2.250	inches
Baro Press:	29.50	in Hg	Max Press:	N/A	PSI	Max Avg Pre...	Optional	
Wind Speed:	0.0	MPH	Offset Press:	N/A	PSI	Avg Velocity:	Optional	
Wind Dir:	6:00	O'clock	PC/Press:	N/A	PC/PSI	Note: Optional		
Time Scale:	N/A	Msec.	Gage Press/Volt:	N/A	PSI			
Test Date:	7/11/2007		Vel Correction:	0	fps			
Test Time:	14:53		Press Correction:	N/A	PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2872	2540	0.249	-8.9	19.2
2	2793	2484	0.265	-7.7	23.4
3	2786	2495	0.280	-9.6	19.7
4	2799	2483	0.259	-8.7	18.8
5	2790	2464	0.250	-10.5	19.8

Oops. Shot at wrong target

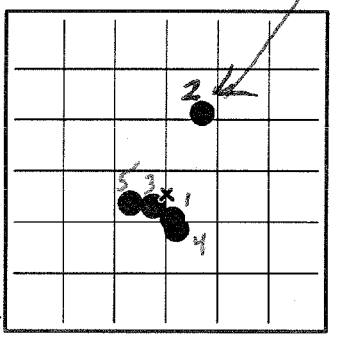
SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2808	2493	0.261	-9.1	20.2
SD	36	28	0.013	1.0	1.8
HI	2872	2540	0.280	-7.7	23.4
LO	2786	2464	0.249	-10.5	18.8
ES	86	76	0.031	2.8	4.6

Rad SD:
Group: 2.15
Mean Radius:

4 Shot group

Acoustic



Grid: 2.0 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.31	-0.13	0.00	-4.18	-15.87	-37.67	-73.40
10 MPH Wind	0.00	0.00	0.31	1.26	5.38	12.99	24.88	41.92
Velocity (fps)	2826	2808	2650	2481	2161	1866	1600	1369
Energy (ft-lbs)	----	----	----	----	----	77353	56842	41654
Power Factor	28260	28081	26501	24809	21612	18662	15998	13695
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

C1 - #2

Test: .243	2	**Gun:** 300WM			**Load:** Default		
Operator:	Optional	**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional	**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00 feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00 feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.268	G1
Scr4 to Scr6:	N/A feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00 feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0 inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70 °F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40 %	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750 feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50 in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0 MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00 O'clock	**PC/Press:**	N/A	PC/PSI	**Note:** Optional		
Time Scale:	N/A Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007	**Vel Correction:**	0	fps			
Test Time:	15:02	**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

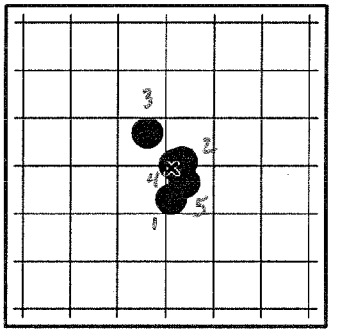
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2784	2477	0.266	-5.4	18.1
2	2802	2509	0.280	-5.1	19.3
3	2777	2486	0.280	-6.2	20.2
4	2808	2495	0.262	-5.3	19.2
5	2790	2468	0.253	-5.0	18.6

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2792	2487	0.268	-5.4	19.1
SD	13	16	0.012	0.5	0.8
HI	2808	2509	0.280	-5.0	20.2
LO	2777	2468	0.253	-6.2	18.1
ES	31	41	0.027	1.2	2.1

Rad SD:	0.9
Group:	2.2
Mean Radius:	0.7

Acoustic



Grid: 1.5 **inches**

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 **YARDS**

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.31	-0.13	0.00	-4.21	-15.90	-37.57	-72.86
10 MPH Wind	0.00	0.00	0.30	1.23	5.25	12.66	24.19	40.67
Velocity (fps)	2809	2792	2639	2475	2164	1877	1617	1390
Energy (ft-lbs)	----	----	----	----	----	78255	58040	42883
Power Factor	28093	27920	26390	24749	21643	18771	16165	13895
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

C1 - #3

Test: .243		3	**Gun:** 300WM			**Load:** Default		
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.260	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	15:04		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

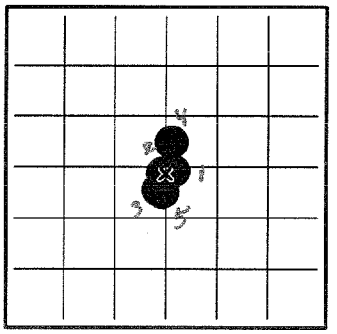
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2812	2487	0.251	-7.0	15.8
2	2810	2494	0.259	-7.4	15.7
3	2796	2484	0.262	-7.4	15.2
4	2804	2485	0.256	-7.1	16.6
5	2761	2464	0.273	-7.5	15.2

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2797	2483	0.260	-7.3	15.7
SD	21	11	0.008	0.2	0.6
HI	2812	2494	0.273	-7.0	16.6
LO	2761	2464	0.251	-7.5	15.2
ES	51	30	0.022	0.5	1.4

Rad SD: 0.6
Group: 1.5
Mean Radius: 0.5

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.31	-0.13	0.00	-4.23	-16.04	-38.08	-74.21
10 MPH Wind	0.00	0.00	0.31	1.27	5.42	13.10	25.08	42.26
Velocity (fps)	2815	2797	2639	2470	2151	1856	1590	1361
Energy (ft-lbs)	----	----	----	----	----	76522	56183	41164
Power Factor	28149	27970	26391	24701	21507	18562	15905	13614
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

C2 - #1

Test: .243		4	**Gun:** 300WM			**Load:** Default		
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.267	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	15:06		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

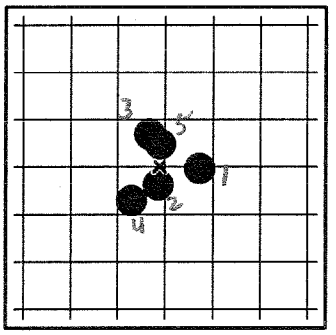
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2745	2446	0.271	-7.7	11.0
2	2773	2475	0.273	-9.0	10.5
3	2774	2455	0.254	-8.9	11.7
4	2733	2434	0.270	-9.8	10.0
5	2751	2447	0.266	-9.2	12.1

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2755	2451	0.267	-8.9	11.0
SD	18	15	0.007	0.8	0.9
HI	2774	2475	0.273	-7.7	12.1
LO	2733	2434	0.254	-9.8	10.0
ES	41	41	0.019	2.1	2.1

Rad SD: 1.2
Group: 2.4
Mean Radius: 1.0

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.31	-0.11	0.00	-4.38	-16.49	-38.95	-75.59
10 MPH Wind	0.00	0.00	0.31	1.26	5.39	13.00	24.86	41.80
Velocity (fps)	2773	2755	2603	2439	2129	1843	1585	1362
Energy (ft-lbs)	----	----	----	----	----	75477	55814	41205
Power Factor	27726	27553	26027	24390	21293	18434	15852	13621
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

C2- #2

Test: .243		5	**Gun:** 300WM			**Load:** Default		
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.265	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	15:07		**Press Correction:**	N/A	PSI			

File: E:\Sims\Dcfault.m83

OEHLER

MODEL 83 SHOT DATA

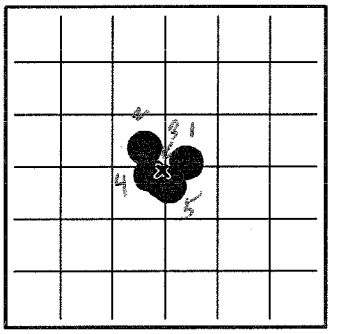
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2799	2503	0.277	-4.7	11.5
2	2761	2447	0.258	-5.9	12.0
3	2828	2529	0.275	-5.2	10.9
4	2793	2457	0.242	-5.7	11.2
5	2814	2512	0.272	-5.4	11.0

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2799	2490	0.265	-5.4	11.3
SD	25	36	0.014	0.5	0.4
HI	2828	2529	0.277	-4.7	12.0
LO	2761	2447	0.242	-5.9	10.9
ES	67	82	0.035	1.2	1.1

Rad SD: 0.6
Group: 1.3
Mean Radius: 0.5

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.31	-0.13	0.00	-4.20	-15.88	-37.61	-73.08
10 MPH Wind	0.00	0.00	0.30	1.24	5.31	12.80	24.48	41.20
Velocity (fps)	2817	2799	2644	2478	2163	1873	1609	1381
Energy (ft-lbs)	----	----	----	----	----	77881	57534	42359
Power Factor	28166	27991	26439	24777	21631	18726	16095	13810
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

C2 - #3

Test: .243	6	**Gun:** 300WM			**Load:** Default			
Operator:	Optional	**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional		
Test Bay:	Optional	**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains	
Muzl to Scr1:	5.00 feet	**Serial #:**	Optional		**Bullet Style:**	Optional		
Scr1 to Scr3:	20.00 feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.271	G1	
Scr4 to Scr6:	N/A feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional		
Muzl to Trgt:	300.00 feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains	
Target Size:	56.0 inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional		
Temperature:	70 °F	**Gage Factor:**	N/A		**Primer:**	Optional		
Humidity:	40 %	**Outside Dia:**	N/A	inches	**Brass:**	Optional		
Altitude:	750 feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches	
Baro Press:	29.50 in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional		
Wind Speed:	0.0 MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional		
Wind Dir:	6:00 O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional		
Time Scale:	N/A Msec.	**Gage Press/Volt:**	N/A	PSI				
Test Date:	7/11/2007	**Vel Correction:**	0	fps				
Test Time:	15:09	**Press Correction:**	N/A	PSI				

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

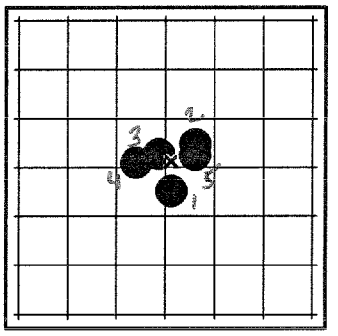
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2768	2466	0.269	-6.8	5.9
2	2778	2474	0.268	-6.1	7.4
3	2803	2502	0.271	-7.2	7.0
4	2792	2491	0.272	-7.9	6.8
5	2790	2495	0.276	-6.1	7.0

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2786	2486	0.271	-6.8	6.8
SD	14	15	0.003	0.8	0.5
HI	2803	2502	0.276	-6.1	7.4
LO	2768	2466	0.268	-7.9	5.9
ES	35	36	0.008	1.8	1.5

Rad SD: 0.9
Group: 1.9
Mean Radius: 0.8

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.31	-0.12	0.00	-4.22	-15.90	-37.51	-72.60
10 MPH Wind	0.00	0.00	0.30	1.22	5.20	12.52	23.91	40.16
Velocity (fps)	2804	2786	2635	2473	2166	1882	1624	1398
Energy (ft-lbs)	----	----	----	----	----	78660	58555	43406
Power Factor	28035	27864	26353	24732	21661	18819	16237	13980
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

C3 - #1

Test: .243		7	**Gun:** 300WM			**Load:** Default		
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.272	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	15:11		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

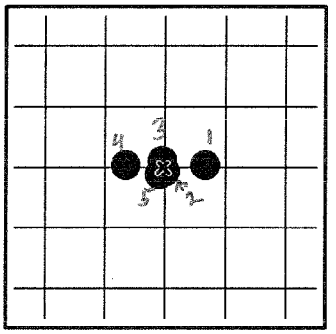
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2816	2507	0.266	-8.8	4.1
2	2810	2497	0.261	-10.3	3.8
3	2800	2485	0.260	-10.2	4.2
4	2789	2505	0.287	-11.4	4.1
5	2801	2513	0.285	-10.1	3.9

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2803	2501	0.272	-10.2	4.0
SD	10	11	0.013	0.9	0.2
HI	2816	2513	0.287	-8.8	4.2
LO	2789	2485	0.260	-11.4	3.8
ES	27	28	0.027	2.6	0.4

Rad SD: 0.9
Group: 2.6
Mean Radius: 0.7

Acoustic



Grid: 2.0 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.31	-0.13	0.00	-4.14	-15.64	-36.90	-71.42
10 MPH Wind	0.00	0.00	0.29	1.21	5.14	12.38	23.63	39.68
Velocity (fps)	2820	2803	2652	2490	2182	1897	1638	1410
Energy (ft-lbs)	----	----	----	----	----	79931	59573	44179
Power Factor	28205	28033	26519	24896	21820	18970	16377	14104
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

C3- #2

Test: .243		8	**Gun:** 300WM			**Load:** Default		
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.264	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	15:13		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

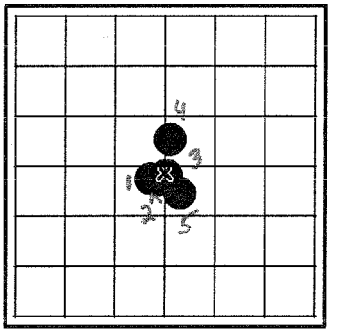
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2777	2468	0.264	-6.8	4.0
2	2791	2493	0.274	-6.6	4.0
3	2818	2499	0.257	-6.3	4.2
4	2778	2472	0.266	-6.2	5.2
5	2822	2508	0.261	-5.9	3.6

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2797	2488	0.264	-6.4	4.2
SD	22	17	0.006	0.3	0.6
HI	2822	2508	0.274	-5.9	5.2
LO	2777	2468	0.257	-6.8	3.6
ES	45	40	0.017	0.9	1.6

Rad SD: 0.7
Group: 1.6
Mean Radius: 0.5

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.31	-0.13	0.00	-4.21	-15.92	-37.70	-73.28
10 MPH Wind	0.00	0.00	0.30	1.25	5.32	12.84	24.56	41.33
Velocity (fps)	2815	2797	2642	2476	2161	1870	1607	1378
Energy (ft-lbs)	----	----	----	----	----	77656	57333	42193
Power Factor	28149	27973	26420	24755	21607	18699	16067	13783
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

C3- #3

Test: .243		9	**Gun:** 300WM			**Load:** Default		
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.275	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	15:15		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

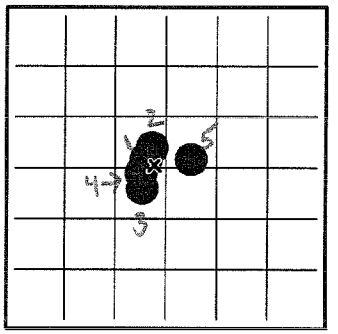
MODEL 83 SHOT DATA

				----Target----	
Rnd	**Vel13**	**Vel-T**	**BC**	**Horz**	**Vert**
1	2795	2489	0.267	-8.4	0.4
2	2785	2485	0.272	-8.2	0.7
3	2786	2514	0.301	-8.5	-0.5
4	2818	2526	0.281	-8.6	-0.1
5	2821	2497	0.254	-7.1	0.3

SUMMARY

				----Target----	
	Vel13	**Vel-T**	**BC**	**Horz**	**Vert**
Avg	2801	2502	0.275	-8.2	0.2
SD	17	17	0.017	0.6	0.5
HI	2821	2526	0.301	-7.1	0.7
LO	2785	2485	0.254	-8.6	-0.5
ES	36	41	0.047	1.5	1.2
			Rad SD:	0.8	
			Group:	1.7	
			Mean Radius:	0.6	

Acoustic



Grid: 1.5 **inches**

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 **YARDS**

	Muzl	**Inst**	**50**	**100**	**200**	**300**	**400**	**500**
Bullet Path (in)	-1.50	-1.31	-0.13	0.00	-4.14	-15.59	-36.75	-71.02
10 MPH Wind	0.00	0.00	0.29	1.20	5.09	12.24	23.34	39.18
Velocity (fps)	2818	2801	2651	2491	2186	1904	1646	1420
Energy (ft-lbs)	----	----	----	----	----	80491	60193	44772
Power Factor	28182	28012	26514	24907	21861	19037	16462	14198
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

C4 - #1

Test: .243		10	**Gun:** 300WM			**Load:** Default	
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0 grains
Muzl to Scr1:	5.00 feet		**Serial #:**	Optional		**Bullet Style:**	Optional
Scr1 to Scr3:	20.00 feet		**Bullet Dia:**	1.000 inches		**B.C.:**	0.272 G1
Scr4 to Scr6:	N/A feet		**Barrel Len:**	0.00 inches		**Powder:**	Optional
Muzl to Trgt:	300.00 feet		**Gun Weight:**	1.0 lb		**Powder Wgt:**	10.0 grains
Target Size:	56.0 inches		**Sight Height:**	1.50 inches		**Lot Number:**	Optional
Temperature:	70 °F		**Gage Factor:**	N/A		**Primer:**	Optional
Humidity:	40 %		**Outside Dia:**	N/A inches		**Brass:**	Optional
Altitude:	750 feet		**Inside Dia:**	N/A inches		**Load OAL:**	2.250 inches
Baro Press:	29.50 in Hg		**Max Press:**	N/A PSI		**Max Avg Pre...**	Optional
Wind Speed:	0.0 MPH		**Offset Press:**	N/A PSI		**Avg Velocity:**	Optional
Wind Dir:	6:00 O'clock		**PC/Press:**	N/A PC/PSI		**Note:**	Optional
Time Scale:	N/A Msec.		**Gage Press/Volt:**	N/A PSI			
Test Date:	7/11/2007		**Vel Correction:**	0 fps			
Test Time:	15:18		**Press Correction:**	N/A PSI			

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

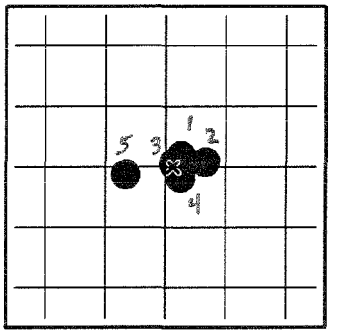
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2808	2507	0.273	-8.7	-3.0
2	2755	2438	0.255	-7.9	-3.2
3	2794	2506	0.284	-9.0	-3.3
4	2791	2493	0.275	-8.7	-3.8
5	2805	2507	0.274	-10.5	-3.7

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2791	2490	0.272	-9.0	-3.4
SD	21	30	0.010	1.0	0.3
HI	2808	2507	0.284	-7.9	-3.0
LO	2755	2438	0.255	-10.5	-3.8
ES	53	69	0.029	2.6	0.8

Rad SD: 1.0
Group: 2.7
Mean Radius: 0.7

Acoustic



Grid: 2.0 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.31	-0.13	0.00	-4.19	-15.81	-37.28	-72.14
10 MPH Wind	0.00	0.00	0.29	1.21	5.17	12.44	23.74	39.88
Velocity (fps)	2808	2791	2640	2478	2172	1888	1630	1404
Energy (ft-lbs)	----	----	----	----	----	79188	59024	43795
Power Factor	28079	27908	26401	24784	21720	18882	16302	14042
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

C4 - #2

Test: .243		11	**Gun:** 300WM			**Load:** Default		
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.263	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	15:19		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

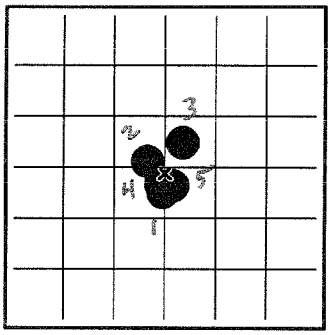
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2801	2491	0.263	-6.0	-3.8
2	2801	2484	0.258	-6.5	-2.9
3	2807	2495	0.263	-5.4	-2.3
4	2829	2507	0.255	-6.1	-3.5
5	2809	2511	0.275	-5.7	-3.6

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2809	2497	0.263	-6.0	-3.2
SD	12	11	0.008	0.4	0.6
HI	2829	2511	0.275	-5.4	-2.3
LO	2801	2484	0.255	-6.5	-3.8
ES	28	27	0.020	1.1	1.5

Rad SD:	0.7
Group:	1.6
Mean Radius:	0.6

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.31	-0.13	0.00	-4.17	-15.79	-37.43	-72.83
10 MPH Wind	0.00	0.00	0.30	1.25	5.32	12.85	24.59	41.39
Velocity (fps)	2827	2809	2653	2485	2168	1875	1609	1379
Energy (ft-lbs)	----	----	----	----	----	78042	57524	42255
Power Factor	28271	28094	26527	24849	21675	18745	16093	13793
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

C4 - #3

Test: .243		12	**Gun:** 300WM			**Load:** Default	
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0 grains
Muzl to Scr1:	5.00 feet		**Serial #:**	Optional		**Bullet Style:**	Optional
Scr1 to Scr3:	20.00 feet		**Bullet Dia:**	1.000 inches		**B.C.:**	0.265 G1
Scr4 to Scr6:	N/A feet		**Barrel Len:**	0.00 inches		**Powder:**	Optional
Muzl to Trgt:	300.00 feet		**Gun Weight:**	1.0 lb		**Powder Wgt:**	10.0 grains
Target Size:	56.0 inches		**Sight Height:**	1.50 inches		**Lot Number:**	Optional
Temperature:	70 °F		**Gage Factor:**	N/A		**Primer:**	Optional
Humidity:	40 %		**Outside Dia:**	N/A inches		**Brass:**	Optional
Altitude:	750 feet		**Inside Dia:**	N/A inches		**Load OAL:**	2.250 inches
Baro Press:	29.50 in Hg		**Max Press:**	N/A PSI		**Max Avg Pre...**	Optional
Wind Speed:	0.0 MPH		**Offset Press:**	N/A PSI		**Avg Velocity:**	Optional
Wind Dir:	6:00 O'clock		**PC/Press:**	N/A PC/PSI		**Note:** Optional	
Time Scale:	N/A Msec.		**Gage Press/Volt:**	N/A PSI			
Test Date:	7/11/2007		**Vel Correction:**	0 fps			
Test Time:	15:21		**Press Correction:**	N/A PSI			

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

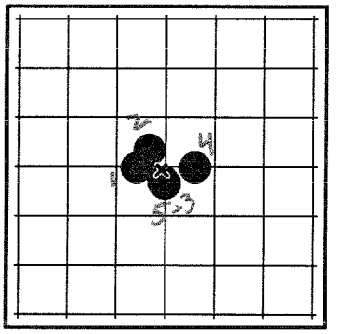
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2809	2510	0.275	-9.0	-7.3
2	2790	2477	0.261	-8.6	-6.7
3	2808	2496	0.263	-8.2	-7.7
4	2815	2487	0.249	-7.2	-7.3
5	2845	2547	0.277	-8.1	-7.8

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2813	2503	0.265	-8.2	-7.3
SD	20	27	0.011	0.7	0.4
HI	2845	2547	0.277	-7.2	-6.7
LO	2790	2477	0.249	-9.0	-7.8
ES	55	70	0.028	1.8	1.1

Rad SD: 0.8
Group: 1.8
Mean Radius: 0.7

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.31	-0.13	0.00	-4.14	-15.67	-37.12	-72.14
10 MPH Wind	0.00	0.00	0.30	1.23	5.27	12.70	24.28	40.86
Velocity (fps)	2831	2813	2658	2491	2176	1884	1620	1390
Energy (ft-lbs)	----	----	----	----	----	78850	58283	42904
Power Factor	28310	28134	26578	24911	21757	18842	16199	13899
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

C5 - #1

Test: .243		13	**Gun:** 300WM			**Load:** Default	
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0 grains
Muzl to Scr1:	5.00 feet		**Serial #:**	Optional		**Bullet Style:**	Optional
Scr1 to Scr3:	20.00 feet		**Bullet Dia:**	1.000 inches		**B.C.:**	0.272 G1
Scr4 to Scr6:	N/A feet		**Barrel Len:**	0.00 inches		**Powder:**	Optional
Muzl to Trgt:	300.00 feet		**Gun Weight:**	1.0 lb		**Powder Wgt:**	10.0 grains
Target Size:	56.0 inches		**Sight Height:**	1.50 inches		**Lot Number:**	Optional
Temperature:	70 °F		**Gage Factor:**	N/A		**Primer:**	Optional
Humidity:	40 %		**Outside Dia:**	N/A inches		**Brass:**	Optional
Altitude:	750 feet		**Inside Dia:**	N/A inches		**Load OAL:**	2.250 inches
Baro Press:	29.50 in Hg		**Max Press:**	N/A PSI		**Max Avg Pre...**	Optional
Wind Speed:	0.0 MPH		**Offset Press:**	N/A PSI		**Avg Velocity:**	Optional
Wind Dir:	6:00 O'clock		**PC/Press:**	N/A PC/PSI		**Note:**	Optional
Time Scale:	N/A Msec.		**Gage Press/Volt:**	N/A PSI			
Test Date:	7/11/2007		**Vel Correction:**	0 fps			
Test Time:	15:23		**Press Correction:**	N/A PSI			

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

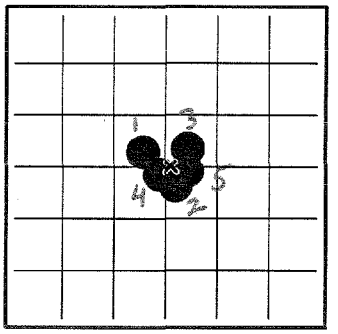
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2779	2484	0.276	2.6	20.6
2	2808	2502	0.268	3.5	19.6
3	2790	2491	0.273	3.9	20.7
4	2822	2523	0.275	3.1	19.9
5	2790	2486	0.269	3.9	20.0

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2798	2497	0.272	3.4	20.2
SD	17	16	0.004	0.5	0.5
HI	2822	2523	0.276	3.9	20.7
LO	2779	2484	0.268	2.6	19.6
ES	43	39	0.008	1.3	1.1

Rad SD: 0.7
Group: 1.4
Mean Radius: 0.6

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.31	-0.13	0.00	-4.16	-15.71	-37.06	-71.71
10 MPH Wind	0.00	0.00	0.29	1.21	5.15	12.40	23.67	39.75
Velocity (fps)	2815	2798	2647	2485	2178	1894	1635	1408
Energy (ft-lbs)	----	----	----	----	----	79634	59358	44033
Power Factor	28151	27980	26469	24849	21779	18935	16348	14080
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

C5 - #2

Test: .243		14	**Gun:** 300WM			**Load:** Default		
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional	
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains
Muzl to Scr1:	5.00	feet	**Serial #:**	Optional		**Bullet Style:**	Optional	
Scr1 to Scr3:	20.00	feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.263	G1
Scr4 to Scr6:	N/A	feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional	
Muzl to Trgt:	300.00	feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains
Target Size:	56.0	inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional	
Temperature:	70	°F	**Gage Factor:**	N/A		**Primer:**	Optional	
Humidity:	40	%	**Outside Dia:**	N/A	inches	**Brass:**	Optional	
Altitude:	750	feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches
Baro Press:	29.50	in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional	
Wind Speed:	0.0	MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional	
Wind Dir:	6:00	O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional	
Time Scale:	N/A	Msec.	**Gage Press/Volt:**	N/A	PSI			
Test Date:	7/11/2007		**Vel Correction:**	0	fps			
Test Time:	15:25		**Press Correction:**	N/A	PSI			

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

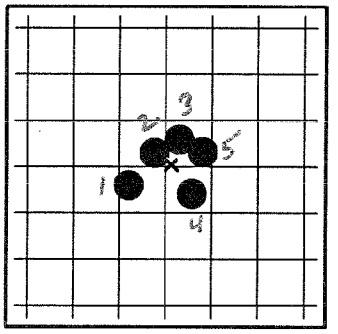
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2774	2461	0.260	5.7	19.7
2	2773	2459	0.258	6.5	20.8
3	2773	2473	0.271	7.3	21.2
4	2790	2482	0.266	7.7	19.4
5	2740	2432	0.262	8.1	20.8

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2770	2462	0.263	7.1	20.4
SD	18	19	0.005	1.0	0.8
HI	2790	2482	0.271	8.1	21.2
LO	2740	2432	0.258	5.7	19.4
ES	50	50	0.013	2.4	1.8

Rad SD:	1.2
Group:	2.6
Mean Radius:	1.1

Acoustic



Grid: 1.5 **inches**

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.31	-0.11	0.00	-4.33	-16.35	-38.72	-75.29
10 MPH Wind	0.00	0.00	0.31	1.27	5.42	13.09	25.05	42.15
Velocity (fps)	2788	2770	2615	2449	2135	1845	1584	1358
Energy (ft-lbs)	----	----	----	----	----	75621	55716	40986
Power Factor	27876	27700	26150	24490	21349	18452	15838	13584
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

C5 - #3

Test: .243		15	**Gun:** 300WM			**Load:** Default	
Operator:	Optional		**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional
Test Bay:	Optional		**Caliber:**	Optional		**Bullet Wgt:**	10000.0 grains
Muzl to Scr1:	5.00 feet		**Serial #:**	Optional		**Bullet Style:**	Optional
Scr1 to Scr3:	20.00 feet		**Bullet Dia:**	1.000 inches		**B.C.:**	0.267 GI
Scr4 to Scr6:	N/A feet		**Barrel Len:**	0.00 inches		**Powder:**	Optional
Muzl to Trgt:	300.00 feet		**Gun Weight:**	1.0 lb		**Powder Wgt:**	10.0 grains
Target Size:	56.0 inches		**Sight Height:**	1.50 inches		**Lot Number:**	Optional
Temperature:	70 °F		**Gage Factor:**	N/A		**Primer:**	Optional
Humidity:	40 %		**Outside Dia:**	N/A inches		**Brass:**	Optional
Altitude:	750 feet		**Inside Dia:**	N/A inches		**Load OAL:**	2.250 inches
Baro Press:	29.50 in Hg		**Max Press:**	N/A PSI		**Max Avg Pre...**	Optional
Wind Speed:	0.0 MPH		**Offset Press:**	N/A PSI		**Avg Velocity:**	Optional
Wind Dir:	6:00 O'clock		**PC/Press:**	N/A PC/PSI		**Note:**	Optional
Time Scale:	N/A Msec.		**Gage Press/Volt:**	N/A PSI			
Test Date:	7/11/2007		**Vel Correction:**	0 fps			
Test Time:	15:26		**Press Correction:**	N/A PSI			

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

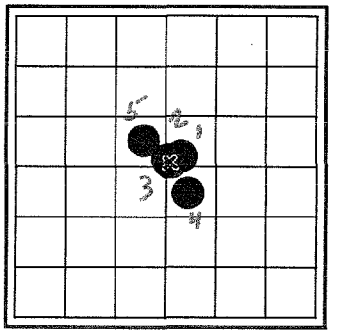
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2800	2482	0.258	6.3	16.3
2	2803	2510	0.279	6.0	16.1
3	2796	2498	0.275	5.9	16.2
4	2828	2506	0.256	6.5	15.2
5	2792	2489	0.270	5.2	16.8

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2804	2497	0.267	6.0	16.1
SD	14	12	0.010	0.5	0.6
HI	2828	2510	0.279	6.5	16.8
LO	2792	2482	0.256	5.2	15.2
ES	36	28	0.023	1.3	1.6

Rad SD: 0.8
Group: 2.1
Mean Radius: 0.5

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.31	-0.13	0.00	-4.17	-15.75	-37.25	-72.28
10 MPH Wind	0.00	0.00	0.30	1.23	5.24	12.63	24.13	40.58
Velocity (fps)	2821	2804	2650	2485	2173	1884	1622	1393
Energy (ft-lbs)	----	----	----	----	----	78816	58416	43117
Power Factor	28210	28036	26497	24848	21725	18838	16218	13933
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

C6 - #1

Test: .243	16	**Gun:** 300WM			**Load:** Default			
Operator:	Optional	**Mfg/Model:**	Optional		**Bullet Mfg:**	Optional		
Test Bay:	Optional	**Caliber:**	Optional		**Bullet Wgt:**	10000.0	grains	
Muzl to Scr1:	5.00 feet	**Serial #:**	Optional		**Bullet Style:**	Optional		
Scr1 to Scr3:	20.00 feet	**Bullet Dia:**	1.000	inches	**B.C.:**	0.270	G1	
Scr4 to Scr6:	N/A feet	**Barrel Len:**	0.00	inches	**Powder:**	Optional		
Muzl to Trgt:	300.00 feet	**Gun Weight:**	1.0	lb	**Powder Wgt:**	10.0	grains	
Target Size:	56.0 inches	**Sight Height:**	1.50	inches	**Lot Number:**	Optional		
Temperature:	70 °F	**Gage Factor:**	N/A		**Primer:**	Optional		
Humidity:	40 %	**Outside Dia:**	N/A	inches	**Brass:**	Optional		
Altitude:	750 feet	**Inside Dia:**	N/A	inches	**Load OAL:**	2.250	inches	
Baro Press:	29.50 in Hg	**Max Press:**	N/A	PSI	**Max Avg Pre...**	Optional		
Wind Speed:	0.0 MPH	**Offset Press:**	N/A	PSI	**Avg Velocity:**	Optional		
Wind Dir:	6:00 O'clock	**PC/Press:**	N/A	PC/PSI	**Note:**	Optional		
Time Scale:	N/A Msec.	**Gage Press/Volt:**	N/A	PSI				
Test Date:	7/11/2007	**Vel Correction:**	0	fps				
Test Time:	15:29	**Press Correction:**	N/A	PSI				

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

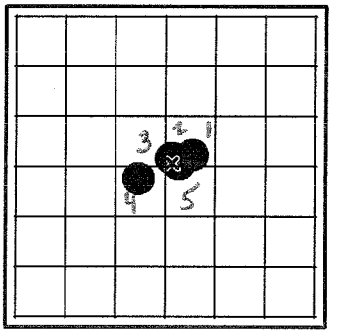
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2805	2493	0.263	3.0	12.8
2	2778	2488	0.282	2.6	12.5
3	2793	2492	0.271	2.3	12.7
4	2773	2458	0.258	1.3	12.1
5	2780	2482	0.274	2.6	12.6

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2786	2483	0.270	2.4	12.5
SD	13	14	0.009	0.6	0.3
HI	2805	2493	0.282	3.0	12.8
LO	2773	2458	0.258	1.3	12.1
ES	32	35	0.024	1.7	0.7

Rad SD: 0.7
Group: 1.8
Mean Radius: 0.5

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.31	-0.12	0.00	-4.23	-15.95	-37.66	-72.97
10 MPH Wind	0.00	0.00	0.30	1.23	5.24	12.62	24.11	40.51
Velocity (fps)	2803	2786	2634	2471	2162	1876	1617	1391
Energy (ft-lbs)	----	----	----	----	----	78202	58092	42990
Power Factor	28030	27858	26338	24707	21620	18764	16173	13912
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

C6 - #2

Test: .243		17	Gun: 300WM			Load: Default		
Operator:	Optional		Mfg/Model:	Optional		Bullet Mfg:	Optional	
Test Bay:	Optional		Caliber:	Optional		Bullet Wgt:	10000.0	grains
Muzl to Scr1:	5.00	feet	Serial #:	Optional		Bullet Style:	Optional	
Scr1 to Scr3:	20.00	feet	Bullet Dia:	1.000	inches	B.C.:	0.277	G1
Scr4 to Scr6:	N/A	feet	Barrel Len:	0.00	inches	Powder:	Optional	
Muzl to Trgt:	300.00	feet	Gun Weight:	1.0	lb	Powder Wgt:	10.0	grains
Target Size:	56.0	inches	Sight Height:	1.50	inches	Lot Number:	Optional	
Temperature:	70	°F	Gage Factor:	N/A		Primer:	Optional	
Humidity:	40	%	Outside Dia:	N/A	inches	Brass:	Optional	
Altitude:	750	feet	Inside Dia:	N/A	inches	Load OAL:	2.250	inches
Baro Press:	29.50	in Hg	Max Press:	N/A	PSI	Max Avg Pre...	Optional	
Wind Speed:	0.0	MPH	Offset Press:	N/A	PSI	Avg Velocity:	Optional	
Wind Dir:	6:00	O'clock	PC/Press:	N/A	PC/PSI	Note:	Optional	
Time Scale:	N/A	Msec.	Gage Press/Volt:	N/A	PSI			
Test Date:	7/11/2007		Vel Correction:	0	fps			
Test Time:	15:31		Press Correction:	N/A	PSI			

File: E:\Sims\Default.m83

OEHLER

MODEL 83 SHOT DATA

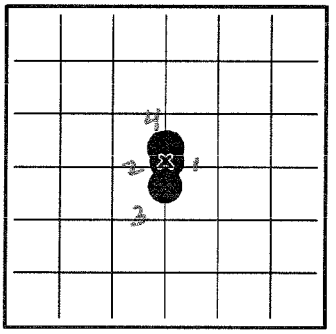
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2769	2485	0.287	6.1	12.7
2	2795	2491	0.269	6.1	13.1
3	2798	2489	0.265	6.1	12.0
4	2792	2506	0.286	6.1	13.1

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2789	2493	0.277	6.1	12.7
SD	13	9	0.012	0.0	0.5
HI	2798	2506	0.287	6.1	13.1
LO	2769	2485	0.265	6.1	12.0
ES	29	21	0.022	0.0	1.1

Rad SD: 0.5
Group: 1.1
Mean Radius: 0.4

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.31	-0.13	0.00	-4.18	-15.73	-37.02	-71.45
10 MPH Wind	0.00	0.00	0.29	1.19	5.08	12.22	23.29	39.07
Velocity (fps)	2805	2789	2640	2481	2179	1899	1644	1419
Energy (ft-lbs)	----	----	----	----	----	80113	60024	44739
Power Factor	28054	27886	26403	24811	21792	18992	16439	14193
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

C 6 - #3

Test: .243	18	**Gun:** 300WM		**Load:** Default	
Operator:	Optional	**Mfg/Model:**	Optional	**Bullet Mfg:**	Optional
Test Bay:	Optional	**Caliber:**	Optional	**Bullet Wgt:**	10000.0 grains
Muzl to Scr1:	5.00 feet	**Serial #:**	Optional	**Bullet Style:**	Optional
Scr1 to Scr3:	20.00 feet	**Bullet Dia:**	1.000 inches	**B.C.:**	0.270 G1
Scr4 to Scr6:	N/A feet	**Barrel Len:**	0.00 inches	**Powder:**	Optional
Muzl to Trgt:	300.00 feet	**Gun Weight:**	1.0 lb	**Powder Wgt:**	10.0 grains
Target Size:	56.0 inches	**Sight Height:**	1.50 inches	**Lot Number:**	Optional
Temperature:	70 °F	**Gage Factor:**	N/A	**Primer:**	Optional
Humidity:	40 %	**Outside Dia:**	N/A inches	**Brass:**	Optional
Altitude:	750 feet	**Inside Dia:**	N/A inches	**Load OAL:**	2.250 inches
Baro Press:	29.50 in Hg	**Max Press:**	N/A PSI	**Max Avg Pre...**	Optional
Wind Speed:	0.0 MPH	**Offset Press:**	N/A PSI	**Avg Velocity:**	Optional
Wind Dir:	6:00 O'clock	**PC/Press:**	N/A PC/PSI	**Note:**	Optional
Time Scale:	N/A Msec.	**Gage Press/Volt:**	N/A PSI		
Test Date:	7/11/2007	**Vel Correction:**	0 fps		
Test Time:	15:33	**Press Correction:**	N/A PSI		

File: E:\Sims\Default.m83

MODEL 83 SHOT DATA

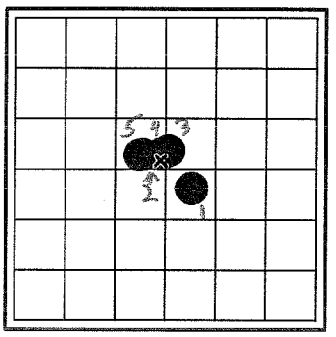
Rnd	Vel13	Vel-T	BC	----Target---- Horz	Vert
1	2808	2494	0.261	5.0	8.5
2	2764	2460	0.267	4.4	9.7
3	2751	2452	0.270	4.1	9.6
4	2792	2476	0.258	3.6	9.6
5	2741	2465	0.294	3.5	9.5

SUMMARY

	Vel13	Vel-T	BC	----Target---- Horz	Vert
Avg	2771	2469	0.270	4.1	9.4
SD	28	16	0.014	0.6	0.5
HI	2808	2494	0.294	5.0	9.7
LO	2741	2452	0.258	3.5	8.5
ES	67	42	0.036	1.5	1.2

Rad SD: 0.8
Group: 1.8
Mean Radius: 0.6

Acoustic



Grid: 1.5 inches

STANDARD ATMOSPHERE BALLISTICS

Zeroed Range: 100 YARDS

	Muzl	Inst	50	100	200	300	400	500
Bullet Path (in)	-1.50	-1.31	-0.12	0.00	-4.29	-16.15	-38.11	-73.81
10 MPH Wind	0.00	0.00	0.30	1.24	5.27	12.69	24.23	40.71
Velocity (fps)	2788	2771	2620	2458	2151	1867	1609	1385
Energy (ft-lbs)	----	----	----	----	----	77378	57498	42585
Power Factor	27882	27711	26199	24577	21506	18665	16090	13847
Recoil	----	ft-lbs						

Comment:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378664
CAL- .300 Win. Mag.
Gun I.D.-A-1

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection	- Appears OK		
		Safety Function Test	— functions properly		
		Trigger Pull w/ Dronak	5.509, 5.837, 5.588, 5.569, 5.719 Avg. 5.644 lbs.		
		Depth of Front Tofeduan	screw hole - .136		
J. Sims	7/3/07	Chamber Cast			
J. Sims	7/5/07	Measure Casting	- See Spreadsheet for data		
J. Sims	7/6/07	Twist Rate	1 : 10"		
		Torque screws			
		Headspace	+.005		
		Proof	OK	1	1
		Headspace	+.005		
J.S. / J.W.	7/10/07	Clean & Inspect	OK		
J. Sims	7/11/07	Accuracy	- See Spreadsheet for data	20	21
J. Sims	7/12/07	Clean & Inspect	OK		
JS	7/12/07	ENDURANCE		100	121
JS / JW	7/13/07	Clean & Inspect	H.S. +.005, OK		
JS	7/16/07	ENDURANCE		400	521
JS / JW	7/17/07	Clean & Inspect	H.S. +.005, OK		
JS	7/18/07	Endurance		500	1021
JS / JW	7-19-07	Clean & Inspect	H.S. +.005, OK		
JW	7-20-07	ENDURANCE		500	1521
JW	7-23-07	Clean & Inspect	H.S. +.005, OK		
JW	7-24-07	ENDURANCE		500	2021
JW	7-24-07	Clean & Inspect	H.S. +.006, OK		
JSW	7-25-07	Section B&L	Sectioned bbl for metallurgical analysis		

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

BLANK FORMS.XLS

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378765
CAL- .300 Win. Mag.
Gun I.D.-A-2

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection - Appears Ok			
		Safety Function Test	- functions properly		
		Trigger Pull w/ Dwerak	- 5.248, 5.706, 4.986, 5.607, 5.552. Avg. 5.420 lbs.		
		Depth of Front Takedown screw hole	- .138		
J Sims	7/3/07	Chamber Cast			
J. Sims	7/5/07	Measure Casting	- See Spreadsheet for data		
J. Sims	7/6/07	Twist Rate	1:10"		
		Torque screws			
		Headspace	+.005		
		Proof	ok.	1	1
		Headspace	+006		
JS/JW	7/10/07	Clean & Inspect	OK		
J. Sims	7/11/07	Accuracy	- See Spreadsheet for data	20	21
J Sims	7/12/07	Clean & Inspect	ok		
JS	7/12/07	ENDURANCE		100	121
JS/JW	7/13/07	Clean & Inspect	H.S. +.006, OK		
JS	7/16/07	Endurance		400	521
JS/JW	7/17/07	Clean & Inspect	H.S. +.006, OK		
JS	7/18/07	Endurance		500	1021
JS/JW	7-19-07	Clean & Inspect	H.S. +.006, OK		
JW	7-20-07	ENDURANCE		500	1521
JW	7.23.07	Clean & Inspect	H.S. +.006, OK		
JW	7.24.07	ENDURANCE		500	2021
JW	7.24.07	Clean & Inspect	H.S. +.006, OK		

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

BLANK FORMS.XLS

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378946
CAL- .300 Win. Mag.
Gun I.D.-A-3

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection	- Appears Ok		
		Safety Function Test	- functions properly		
		Trigger Pull w/ Dwarak	- 4.909, 5.123, 6.217, 5.758, 5.777, Avg. 5.556 lbs.		
		Depth of Front Takedown screw hole	- .139		
J. Sims	7/3/07	Chamber Cast			
J. Sims	7/5/07	Measure Casting	- See Spreadsheet for data		
J. Sims	7/6/07	Twist Rate			
		Torque Screws			
		Headspace	+ .005		
		Proof	Ok	1	1
		Headspace	+ .006		
JS / JW	7/10/07	Clean & Inspect	OK		
J. Sims	7/11/07	Accuracy	- See Spreadsheet for data	20	21
J. Sims	7/12/07	Clean & Inspect	OK		
JS	7/12/07	ENDURANCE		100	121
JS / JW	7/13/07	Clean & Inspect	H.S. + .006, OK		
JS	7/16/07	Endurance		400	521
JS / JW	7/17/07	Clean & Inspect	H.S. + .006 OK		
JS	7/15/07	Endurance	B.N / Scope bound @ 638, 697 rds.	500	1021
JS / JW		Clean & Inspect	H.S. T .006, ok		
V. NORTON	7/20/07	Inspection	Disassembled bolt + Firing pin assembly Inspected + reassembled Drop gauge on firing pin		
PKR	7/21/07	Take Photos of parts			
PMR	8/6/07	Inspect Firing Pin + Bolt Parts	- Upon inspection a gouged area was found on the firing pin, this gouged area had to be produced by some type of debri that had since became dislodged and fallen free of the Firing Pin Assy. No burr was present that would have created the gouge.		

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

BLANK FORMS.XLS

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378961
CAL- .300 Win. Mag.
Gun I.D.-A-4

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection - Appears OK			
		Safety Function Test - Functions properly			
		Trigger Pull w/ Dynamic - 5.709, 5.580, 5.494, 5.443/5.415 Avg. 5.528 lbs.			
		Depth of Front Takedown screw hole - .139			
J. Sims	7/6/07	Torque screws			
		Headspace	+.005		
		Proof	OK	1	1
		Headspace	+.006		
JS/JW	7/10/07	Clean & Inspect	OK		
J. Sims	7/11/07	Accuracy	- See Spreadsheet for data	20	21
J. Sims	7/12/07	Clean & Inspect	OK		
JS	7/12/07	ENDURANCE		100	121
JS/JW	7/13/07	Clean & Inspect	H.S. +.006, OK		
JS	7/16/07	Endurance		400	521
JS/JW	7/17/07	Clean & Inspect	H.S. +.006, OK		
JS	7/18/07	Endurance		500	1021
JS/JW		Clean & Inspect	H.S. +.006, ok		

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378967
CAL- .300 Win. Mag.
Gun I.D.-A-5

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box. Visual Inspection - Appears OK			
		Safety Function Test - functions properly			
		Trigger Pull w/ Dromk 6.150, 6.059, 6.075, 6.029, 6.047 Avg. 6.072 lbs.			
		Depth of Front Takedown screw hole - .138			
J. Sims	7/6/07	Torque screws			
		Headspace	+.005		
		Proof	OK	1	1
		Headspace	+.005		
JS/JW	7/10/07	Clean & Inspect	OK		
J. Sims	7/11/07	Accuracy	- See Spreadsheet for data	20	21
J. Sims	7/12/07	Clean & Inspect	OK		
JS	7/12/07	ENDURANCE		100	121
JS/JW	7/13/07	Clean & Inspect	H.S. +.005 OK		
JS	7/16/07	Endurance		400	521
JS/JW	7/17/07	Clean & Inspect	H.S +.006 OK		

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378751
CAL- .300 Win. Mag.
Gun I.D.-A-6

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection	- Appears OK		
		Safety Function Test	- Functions properly		
		Trigger Pull w/ Dvorak	- 5.917, 5.964, 5.872, 5.712, 5.676 Avg. 5.828 lbs.		
		Depth of Front Takedown screw hole	- .135		
J. Sims	7/6/07	Torque screws			
		Headspace	+.005		
		Proof	OK	1	1
		Headspace	+.005		
JS/JW	7/11/07	Clean & Inspect	OK		
J. Sims	7/11/07	Accuracy	- See Spreadsheet for data	20	21
J. Sims	7/12/07	Clean & Inspect	OK		
JS	7/12/07	ENDURANCE		100	121
JS/JW	7/13/07	Clean & Inspect	H.S. +.005, OK		
JS	7/16/07	Endurance		400	521
JS/JW	7/17/07	Clean & Inspect	H.S. +.005 OK		

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378790
CAL- .300 Win. Mag.
Gun I.D.-A-7

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection - Appears OK			
		Safety Function Test - Functions properly			
		Trigger Pull w/ Dwyrak 5.393, 5.463, 5.262, 5.308, 5.202 Avg. 5.326 lbs,			
		Depth of Front Takedown screw hole - .140			
J. Sims	7/6/07	Torque screws			
		Headspace	+.005		
		Proof	OK	1	1
		Headspace	+.006		
J Sims	7/9/07	Extended Proof x100 Rds - See Spreadsheet for info,		100	101
JS/JW	7/10/07	Clean & Inspect OK			

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378795
CAL- .300 Win. Mag.
Gun I.D.-A-8

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual	Inspection - Appears OK		
		Safety Function Test	- functions properly		
		Trigger Pull w/ Dvoryak	- 5.842, 5.842, 6.736, 5.750, 5.724 Avg. 5.979 lbs,		
		Depth of Front Takedown	screw hole - .142		
J. Sims	7/6/07	Torque screws			
		Headspace	+.006		
		Proof	OK	1	1
		Headspace	+.006		
JS/JW	7/10/07	Clean & Inspect	OK		

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378962
CAL- .300 Win. Mag.
Gun I.D.-A-9

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection	Appears Ok		
		Safety Function Test	functions properly		
		Trigger Pull w/ Dvorak	5.064, 4.911, 4.824, 5.042, 5.204 Avg. 5.009 lbs.		
		Depth of Front Takedown screw hole	.139		
J. Sims	7/6/07	Torque screws			
		Headspace	+.005		
		Proof	ok	1	1
		Headspace	+.005		
JS/JW	7/10/07	Clean & Inspect	Ok		
PKR/GH	8/2/07	High-Pressure test	Apply strain Gages & test remotely with one 120 K load. Document with Video & Photos		

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378963
CAL- .300 Win. Mag.
Gun I.D.-A-10

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection	Appears OK		
		Safety function Test	- Functions properly		
		Trigger Pull w/ Dynamik	6.147, 6.250, 6.050, 5.853, 5.720 Avg. 6.004 lbs		
		Depth of Front Takedown screw hole	- .140		
J. Sims	7/6/07	Torque screws			
		Headspace	+.005		
		Proof	OK	1	1
		Headspace	+.006		
JSI JW	7/10/07	Clean + Inspect	OK		

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378563
CAL- .30.06
Gun I.D.-B-1

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection	Appears OK		
		Safety function Test	functions properly		
J. Sims	7/3/07	Trigger Pull w/ Dwarek	5.542, 5.749, 5.501, 5.466, 5.430 Avg. 5.538 lbs.		
		Depth of Front Takedown screw hole	.222		
J. Sims	7/5/07	Chamber Cast			
J. Sims	7/6/07	Measure Casting	See Spreadsheet for data		
J. Sims	7/9/07	Headspace	.003 (Torqued screws prior to proofing)		
		Proof	OK	1	1
		Headspace	.004		
JS/JW	7/10/07	Clean & Inspect			
J. Sims	7/11/07	Accuracy	See Spreadsheet for data	20	21
J. Sims	7/12/07	Clean & Inspect			
JW	7/12/07	ENDURANCE		100	121
JS/JW	7/13/07	Clean & Inspect	H.S. +.004, OK		
JW	7/16/07	Endurance		400	521
JS/JW	7/17/07	Clean & Inspect	H.S. +.004, OK		
JW	7/18/07	Endurance		500	1021
JS/JW	7-19-07	Clean & Inspect	H.S. +.004, OK		
JW	7.20.07	ENDURANCE		500	1521
JW	7.23.07	Clean & Inspect	H.S. +.004, OK		
JW	7.24.07	ENDURANCE		500	2021
JW	7.24.07	Clean & Inspect	H.S. +.004, OK		
JEH	7-25-07	Section Bbl	Sectioned Bbl for metallurgical analysis		

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378643
CAL- .30.06
Gun I.D.-B-2

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection - Appears OK			
		Safety Function Test - Functions properly			
J. Sims	7/3/07	Trigger Pull w/ Dwerak -	6.091, 6.142, 6.020, 5.945, 5.836 Avg. 6.007 lbs.		
		Depth of Front Takedown screw hole - .222			
J. Sims	7/5/07	Chamber Cast			
	7/6/07	Measure Casting	See Spreadsheet for data		
	7/9/07	Headspace	+.003 (Torqued screws prior to proof)		
		Proof	Ok	1	1
		Headspace	+.003		
JS/JW	7/10/07	Clean & Inspect			
J. Sims	7/11/07	Accuracy	- See Spreadsheet for data	20	21
J. Sims	7/12/07	Clean & Inspect			
JW	7/12/07	ENDURANCE		100	121
JS/JW	7/13/07	Clean & Inspect	H.S. +.003 ok		
JW	7/16/07	Endurance		400	521
JS/JW	7/17/07	Clean & Inspect	H.S. +.003, ok		
JW	7/18/07	Endurance		500	1021
JS/JW	7.19.07	Clean & Inspect	H.S. +.003, OK		
JW	7.20.07	ENDURANCE		500	1521
JW	7.23.07	Clean & Inspect	H.S. +.003, OK		
JW	7.24.07	ENDURANCE		500	2021
JW	7.24.07	Clean & Inspect	H.S. +.003, OK		

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378645
CAL- .30.06
Gun I.D.-B-3

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection.	- Appears Ok		
		Safety Function Test	- functions properly		
J. Sims	7/3/07	Trigger Pull w/ Dromak	- 5.447, 5.712, 5.627, 5.444, 5.618 Avg. 5.570 lbs.		
		Depth of Front Takedown	screw hole - .220		
J. Sims	7/5/07	Chamber Cast			
J. Sims	7/6/07	Measure Casting	See Spreadsheet for data		
J. Sims	7/9/07	Headspace	+.003 (torqued screws prior to proof)		
		Proof	Ok	1	1
		Headspace	+.004		
JS/JW	7/10/07	Clean & Inspect			
J. Sims	7/11/07	Accuracy	- See Spreadsheet For data	20	21
J. Sims	7/12/07	Clean & Inspect			
JW	7/12/07	ENDURANCE		100	121
JS/JW	7/13/07	Clean & Inspect	H.S. +.004 OK		
JW	7/16/07	Endurance	Grip cap fell off @ 11rds.	400	521
JS/JW	7/17/07	Clean & Inspect	H.S. +.004 ,OK		
JW	7/18/07	Endurance		500	1021
JS/JW		Clean & Inspect	H.S +.004 ,OK		

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378789
CAL- .30.06
Gun I.D.-B-4

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection - Appears OK			
		Safety Function Test - functions properly			
J. Sims	7/3/07	Trigger Pull w/ DwyerK - 5.435, 5.272, 5.210, 5.333, 5.281 Avg. 5.306 lbs.			
		Depth of Front Takedown screw hole - .223			
J. Sims	7/9/07	Headspace	+.004 (Torqued screws prior to proof)		
		Proof	OK	1	1
		Headspace	+.004		
JS/JW	7/10/07	Clean & Inspect			
J. Sims	7/11/07	Accuracy	- See Spreadsheet for data	20	21
J. Sims	7/12/07	Clean & Inspect			
JW	7/12/07	ENDURANCE		100	121
JS/JW	7/13/07	Clean & Inspect	H.S. +.004 OK		
JW	7/16/07	Endurance		400	521
JS/JW	7/17/07	Clean & Inspect	H.S. +.005 OK		
JW	7/18/07	Endurance		500	1021
JS/JW		Clean & Inspect	H.S. +.005 , OK		

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378951
CAL- .30.06
Gun I.D.-B-5

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection - Appears Ok			
		Safety Function Test - Functions properly			
J. Sims	7/3/07	Trigger Pull w/Dwonk - 4.800, 4.798, 5.020, 4.628, 4.977 Avg. 4.845 lbs.			
		Depth of Front Takedown screw hole .220			
J. Sims	7/9/07	Headspace	+.004		
		Proof	Ok (Torqued screws prior to proof)	1	1
		Headspace	+.004		
JS/JW	7/10/07	Clean & Inspect			
J. Sims	7/11/07	Accuracy	- See Spreadsheet for data	20	21
J. Sims	7/12/07	Clean & Inspect			
JW	7/12/07	ENDURANCE		100	121
JS/JW	7/13/07	Clean & Inspect	HS +.004 ,Ok		
JW	7/16/07	Endurance		400	521
JS/JW	7/17/07	Clean & Inspect	HS +.005 ,Ok		

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378741
CAL- .30.06
Gun I.D.-B-6

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection - Appears OK			
		Safety Function Test - functions properly			
J. Sims	7/3/07	Trigger Pull w/Dynamk - 5.890, 5.829, 5.936, 5.637, 5.447 Avg. 5.748 lbs.			
		Depth of front Takedown screw hole - .221			
J. Sims	7/9/07	Headspace	+.002 (Torqued screws prior to proof)		
		Proof	OK	1	1
		Headspace	+.002		
JS/JW	7/10/07	Clean & Inspect			
J. Sims	7/11/07	Accuracy	- See Spreadsheet for data	20	21
J. Sims	7/12/07	Clean & Inspect			
JW	7/12/07	ENDURANCE		100	121
JS/JW	7/13/07	Clean & Inspect	H.S. +.002 OK		
JW	7/16/07	Endurance		400	521
JS/JW	7/17/07	Clean & Inspect	H S +.002 ok		

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378763
CAL- .30.06
Gun I.D.-B-7

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection	Appears OK		
		Safety Function Test	-functions properly		
J. Sims	7/3/07	Trigger Pull w/ Dwonk	-5.528, 5.604, 5.484, 5.280, 5.348 Avg. 5.449 lbs.		
		Depth of front Takedown screw hole	-.227		
J. Sims	7/9/07	Headspace	+.002 (Torqued screws prior to proof)		
		Proof	OK	1	1
		Headspace	+.002		
JS/JW	7/10/07	Clean & Inspect			
Jim U	7/24-25/07	Dry Cycle	Cycled the gun 10,000 cycles dwonk lubed every 1000		

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378768
CAL- .30.06
Gun I.D.-B-8

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual	Inspection - Appears OK		
		Safety Function Test	- Functions properly		
J. Sims	7/3/07	Trigger Pull w/ Dynamik	- 5.977, 6.161, 5.929, 5.958, 5.508 Avg. 5.907 lbs.		
		Depth of front Takedown screw holes	- .224		
J. Sims	7/9/07	Headspace	+.002 (Torqued screws prior to proof)		
		Proof	OK	1	1
		Headspace	+.002		
JS/JW	7/10/07	Clean + Inspect			
BL	7/25/07	Hot Test		100	101
BL	7/26/07	Cold Test		100	201
BL	7/27/07	Clean			

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378856
CAL- .30.06
Gun I.D.-B-9

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection - Appears OK			
		Safety Function Test - functions properly			
J. Sims	7/3/07	Trigger Pull - 1/Dwnk - 5.612, 5.501, 5.480, 5.520, 5.390 Avg - 5.501 lbs.			
		Depth of front Takedown screw hole: .228			
J. Sims	7/9/07	Headspace	+.002 (Torqued screws prior to proof)		
		Proof	OK	1	1
		Headspace	+.002		
JS/JW	7/10/07	Clean & Inspect			

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378960
CAL- .30.06
Gun I.D.-B-10

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection - Difficult to close (Cam-over)			
		Safety Function Test - functions properly			
J. Sims	7/3/07	Trigger Pull w/ Dronk - 5.972, 5.761, 6.269, 5.672, 5.772, Avg. 5.889 lbs.			
		Depth of Front Takedown screw hole - .219			
J. Sims	7/9/07	Headspace	Min. (Torqued screws prior to proof)		
		Proof	OK	1	1
		Headspace	+.002		
J.S/JSW	7/10/07	Clean + Inspect			

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378661
CAL- .243 youth
Gun I.D.-C-1

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection - Appears Ok			
		Safety Function Test - functions properly			
J. Sims	7/3/07	Trigger Pull w/ Dvorak - 5.164, 5.729, 5.642, 5.122, 5.462 Avg. 5.424 lbs.			
		Depth of front Takedown screw hole - .220			
J. Sims	7/5/07	Chamber Cast			
J. Sims	7/6/07	Measure Casting	See Spreadsheet for data		
J. Sims	7/9/07	Headspace	+.003 (Torqued screws prior to proof)		
		Proof	Ok	1	1
		Headspace	+.003		
JS/JW	7/10/07	Clean & Inspect			
J. Sims	7/11/07	Accuracy	- See Spreadsheet for data	20	21
J. Sims	7/12/07	Clean & Inspect			
JS	7/12/07	ENDURANCE		100	121
JS/JW	7/13/07	Clean & Inspect	H.S. +.003, OK		
JS	7/16/07	Endurance		400	521
JS/JW	7/17/07	Clean & Inspect	H.S. +.003, OK		
JS	7/18/07	Endurance		500	1021
JS/JW	7-19-07	Clean & Inspect	H.S. +.003, OK		
JW	7.20.07	ENDURANCE		500	1521
JW	7.23.07	Clean & Inspect	H.S. +.003, OK		
JW	7.24.07	ENDURANCE		500	2021
JW	7.24.07	Clean & Inspect	H.S. +.003 OK		
JEH	7-25-07	Section BBL	Sectioned BBL for metallurgical analysis		

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

BLANK FORMS.XLS

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378750
CAL- .243 youth
Gun I.D.-C-2

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection - Appears ok			
		Safety Function Test - functions properly			
J. Sims	7/3/07	Trigger Pull w/ Dwyer K - 6.322, 6.505, 6.345, 6.226, 6.272 Avg. 6.334 lbs.			
		Depth of front Takedown screw hole - .217			
J. Sims	7/5/07	Chamber Cast			
J. Sims	7/6/07	Measure Casting	See Spreadsheet for data		
J. Sims	7/9/07	Headspace	+.003 (Torqued screws prior to proof)		
		Proof	OK	1	1
		Headspace	+.003		
JS / JW	7/10/07	Clean & Inspect			
J. Sims	7/11/07	Accuracy	See Spreadsheet for data	20	21
J. Sims	7/12/07	Clean & Inspect			
JS	7/12/07	ENDURANCE		100	121
JS / JW	7/13/07	Clean & Inspect	H.S +.003 OK		
JS	7/16/07	Endurance		400	521
JS / JW	7/17/07	Clean & Inspect	H.S +.004 OK		
JS	7/18/07	Endurance		500	1021
JS / JW	7-19-07	Clean & Inspect	H.S +.004 OK		
JW	7.20.07	ENDURANCE		500	1521
JW	7.23.07	Clean & Inspect	H.S. +.004, OK		
JW	7.24.07	ENDURANCE		500	2021
JW	7.24.07	Clean & Inspect	H.S. +.004, OK		

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

BLANK FORMS.XLS

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378778
CAL- .243 youth
Gun I.D.-C-3

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection - Appears, Ok			
		Safety Function Test - Functions Properly			
J. Sims	7/3/07	Trigger Pull w/Dwrnk - 5.869, 5.678, 5.658, 5.542, 5.836 Avg, 5.717 lbs.			
		Depth of front Takedown screw hole - .217			
J. Sims	7/5/07	Chamber Cast			
J. Sims	7/6/07	Measure Casting	See Spreadsheet for data		
J. Sims	7/9/07	Headspace	+.003 (Torqued screws prior to proof)		
		Proof	Ok	1	1
		Headspace	+.003		
JS / JW	7/10/07	Clean & Inspect			
J. Sims	7/11/07	Accuracy	See Spreadsheet for data	20	21
J. Sims	7/12/07	Clean & Inspect			
JS	7/12/07	ENDURANCE		100	121
JS / JW	7/13/07	Clean & Inspect	H.S. +.003 ok		
JS	7/16/07	Endurance		400	521
JS / JW	7/17/07	Clean & Inspect	H.S. +.003 ,ok		
JS	7/18/07	Endurance		500	1021
JS / JW		Clean & Inspect	H.S. +.003 ,ok		

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

BLANK FORMS.XLS

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378875
CAL- .243 youth
Gun I.D.-C-4

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box, Visual Inspection, Safety Function Test	Appears ok functions properly		
J. Sims	7/3/07	Trigger Pull w/ Dynamometer, Depth of Front Takedown screw hole	6.067, 5.997, 5.939, 5.912, 5.767 Avg. 5.936 lbs. .222		
J. Sims	7/9/07	Headspace Proof Headspace	+.003 (Torqued screws prior to proof) Ok +.003	1	1
JS/JW	7/10/07	Clean & Inspect			
J. Sims	7/11/07	Accuracy	See Spreadsheet for data	20	21
J. Sims	7/12/07	Clean & Inspect			
JS	7/12/07	ENDURANCE		100	121
JS/JW	7/13/07	Clean & Inspect	H.S. +.003 ,Ok		
JS	7/16/07	Endurance		400	521
JS/JW	7/17/07	Clean & Inspect	H.S. +.004 ,Ok		
JS	7/18/07	Endurance		500	1021
JS/JW		Clean & Inspect	H.S. +.004 ,Ok		

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

BLANK FORMS.XLS

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378965
CAL- .243 youth
Gun I.D.-C-5

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection - Appears Ok			
		Safety Function Test - Functions Properly			
J. Sims	7/3/07	Trigger Pull w/Dwyer K- 5.974, 5.950, 5.926, 5.784, 5.880 Avg. 5.903 lbs.			
		Depth of front Takedown screw hole- .219			
J. Sims	7/9/07	Headspace	+.003 (Torqued screws prior to proof)		
		Proof	OK	1	1
		Headspace	+.003		
JS / JW	7/10/07	Clean & Inspect			
J. Sims	7/11/07	Accuracy	- See Spreadsheet for data	20	21
J. Sims	7/12/07	Clean & Inspect			
JS	7/12/07	ENDURANCE		100	121
JS / JW	7/13/07	Clean & Inspect	H.S. +.003 OK		
JS	7/16/07	Endurance		400	521
JS / JW	7/17/07	Clean & Inspect	H.S. +.003 OK		

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

BLANK FORMS.XLS

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378780
CAL- .243 youth
Gun I.D.-C-6

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection - Appears OK			
		Safety Function Test - functions properly			
J. Sims	7/3/07	Trigger Pull w/ Dwerak - 5.920, 5.623, 5.855, 5.685, 6.398 Avg. 5.896 lbs.			
		Depth of front Takedown screw hole - .216			
J. Sims	7/9/07	Headspace	+.004 (Torqued screws prior to proof)		
		Proof	OK	1	1
		Headspace	+.004		
JS/JW	7/10/07	Clean & Inspect			
J. Sims	7/11/07	Accuracy	- See Spreadsheet for data	20	21
J. Sims	7/12/07	Clean & Inspect			
JS	7/12/07	ENDURANCE		100	121
JS/JW	7/13/07	Clean & Inspect	H.S. +.004 ,OK		
JS	7/16/07	Endurance		400	521
JS/JW	7/17/07	Clean & Inspect	H.S. +.004 ,OK		

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

BLANK FORMS.XLS

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378796
CAL- .243 youth
Gun I.D.-C-7

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection	(Old Vintage Firing Pin Head was used on this gun)		
		Safety Function Test	functions properly		
J. Sims	7/3/07	Trigger Pull w/ Dwt-a-K	6.791, 6.315, 6.278, 6.583, 6.490 Avg. 6.492 lbs.		
		Depth of front Takedown screw hole	.213		
		Out of test until new F.P. head is installed			

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

BLANK FORMS.XLS

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SERIAL # 71378878
CAL- .243 youth
Gun I.D.-C-8

Trial and Pilot
SS M/770
DAILY TEST DATA SHEET

TRACKING # TLW2305
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
J. Sims	7/2/07	Out of Box Visual Inspection - Appears OK			
		Safety Function Test - Functions properly			
J. Sims	7/3/07	Trigger Pull w/ Dwrnk - 5.007, 4.893, 5.031, 4.909, 5.040 Avg. 4.976 lbs.			
		Depth of front Takedown screw hole - .219			
J. Sims	7/9/07	Headspace	+.003		
		Proof	OK	1	1
		Headspace	+.003		
JS/JW	7/10/07	Clean & Inspect			
BL	7/25/07	Hot Test		100	101
BL	7/26/07	Cold Test		100	201
BL	7/27/07	Clean			

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

GUN: B-8
SHOOTER: BOB LEE
CAL: 30.06

M / 770 STAINLESS STEEL BARREL
HOT TEST (120.2 F)

PROJECT# 241230
TLW# 22305

Ø

	AMMO Rem 180gr. Core-Lokt SPR 30064		LOT# 608 JA1
	MALFUNCTIONS		MALFUNCTIONS
1	8:00 AM	51	
2		52	
3		53	
4		54	
5		55	
6		56	
7		57	
8		58	
9		59	
10		60	
11		61	14:00 PM
12		62	
13		63	
14		64	
15		65	
16		66	
17		67	
18		68	
19		69	
20		70	
21	10:00 AM	71	
22		72	
23		73	
24		74	
25		75	
26		76	
27		77	
28		78	
29		79	
30		80	
31		81	16:00 PM
32		82	
33		83	
34		84	
35		85	
36		86	
37		87	
38		88	
39		89	
40		90	
41	12:00 NOON	91	
42		92	
43		93	
44		94	
45		95	
46		96	
47		97	
48		98	
49		99	
50		100	

TOTAL RDS - 100

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

GUN: C8
SHOOTER: BOB LEE
CAL:.243 WIN

M / 770 STAINLESS STEEL BARREL
HOT TEST (120.2 F)

PROJECT# 241230
TLW# 22305

Ø

	AMMO Rem 80Gr PSP R243W1		LOT# C22 R41
	MALFUNCTIONS		MALFUNCTIONS
1	8:00 AM	51	
2		52	
3		53	
4		54	
5		55	
6		56	
7		57	
8		58	
9		59	
10		60	
11		61	14:00 PM
12		62	
13		63	
14		64	
15		65	
16		66	
17		67	
18		68	
19		69	
20		70	
21	10:00 AM	71	
22		72	
23		73	
24		74	
25		75	
26		76	
27		77	
28		78	
29		79	
30		80	
31		81	16:00 PM
32		82	
33		83	
34		84	
35		85	
36		86	
37		87	
38		88	
39		89	
40		90	
41	12:00 NOON	91	
42		92	
43		93	
44		94	
45		95	
46		96	
47		97	
48		98	
49		99	
50		100	

TOTAL RDS - 100

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

GUN: B8
SHOOTER: BOB LEE
CAL:.30.06

M / 770 STAINLESS STEEL BARREL
COLD TEST (-20.0 F)

PROJECT# 241230
TLW# 22305

8

	AMMO Rem 180GR Core-LoKT PSP R30065		LOT# B15 BB1
	MALFUNCTIONS		MALFUNCTIONS
1	8:00 AM	51	
2		52	
3		53	
4		54	
5		55	
6		56	
7		57	
8		58	
9		59	
10		60	
11		61	14:00 PM
12		62	
13		63	
14		64	
15		65	
16		66	
17		67	
18		68	
19		69	
20		70	
21	10:00 AM	71	
22	WF	72	
23		73	
24		74	
25		75	
26		76	
27		77	
28		78	
29		79	
30		80	
31		81	16:00 PM
32		82	
33		83	
34		84	
35		85	
36		86	
37		87	
38		88	
39		89	
40		90	
41	12:00 NOON	91	
42		92	
43		93	
44		94	
45		95	
46		96	
47		97	
48		98	
49		99	
50		100	

TOTAL RDS - 100

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

GUN: C8
SHOOTER: BOB LEE
CAL:.243 WIN

M / 770 STAINLESS STEEL BARREL
COLD TEST (-20.0 F)

PROJECT# 241230
TLW# 22305

Ø

	AMMO Rem 80gr PSP R243W1		LOT# C02 DC1
	MALFUNCTIONS		MALFUNCTIONS
1	8:00 AM	51	
2		52	
3		53	
4		54	
5		55	
6		56	
7		57	
8		58	
9		59	
10		60	
11		61	14:00 PM
12		62	
13		63	
14		64	
15		65	
16		66	
17		67	
18		68	
19		69	
20		70	
21	10:00 AM	71	
22		72	
23		73	
24		74	
25		75	
26		76	
27		77	
28		78	
29		79	
30		80	
31		81	16:00 PM
32		82	
33		83	
34		84	
35		85	
36		86	
37		87	
38		88	
39		89	
40		90	
41	12:00 NOON	91	
42		92	
43		93	
44		94	
45		95	
46		96	
47		97	
48		98	
49		99	
50		100	

TOTAL RDS - 100

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

Non-Printable File

File Name: Tlw2305.sif

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

GUN # D1
SERIAL # 71380501
CAL. 7MM REM MAG

M/770 STAINLESS STEEL w/scope
DAILY DATA SHEET

TRACKING # TLW2359
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
BL	9-4-07	LABEL			
BL	9-4-07	INITIAL MEASUREMENTS			
BL	9-4-07	FIRECONTROL INSPECTION			
BL	9-4-07	MEASURE TRIGGER PULL	5.0 - 5.0 - 5.0 - 4.75 - 5.0 Avg 4.95		
BL	9-4-07	SAFETY FUNCTION TEST			
BL	9-4-07	HEADSPACE	+.002		
BL	9-4-07	PROOF	Good Bolt was stiff closing w/round in chamber	1	1
BL	9-4-07	HEADSPACE	.002		
		~~ACCURACY~~			
BL	9-4-07	Clean before Accuracy			
BL	9-5-07	Endurance 0-100 Rounds	Locking lug got caught on follower when bringing Bolt to the rear / chamber put on follower	100	101
BL	9-6-07	Endurance 101-500 Rounds		400	501
BL	9-7-07	Clean / Inspect	+.003 5.0-5.0-5.0-5.0-5.0 Avg 5.0		
BL	9-7-07	Endurance 501-1000 Rounds		500	1001
BL	9-7-07	Clean / Inspect	+.003 5.0-5.0-5.0-5.0-5.0 Avg 5.0		

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

BLANK FORMS.XLS

R 2195779

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

GUN # D2
SERIAL # 71384667
CAL. 7MM REM. MAG

M/770 STAINLESS STEEL w/ scope
DAILY DATA SHEET

TRACKING # TLW2359
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
BL	9-4-07	LABEL			
BL	9-4-07	INITIAL MEASUREMENTS			
BL	9-4-07	FIRECONTROL INSPECTION			
BL	9-4-07	MEASURE TRIGGER PULL	4.5 - 4.5 - 4.75 - 4.5 - 4.75 Avg 4.6		
BL	9-4-07	SAFETY FUNCTION TEST			
BL	9-4-07	HEADSPACE	+.002		
BL	9-4-07	PROOF	Good	1	1
BL	9-4-07	HEADSPACE	.003		
		~~ACCURACY~~			
BL	9-4-07	Clean before Accuracy			
BL	9-5-07	Endurance 0-100 Rounds	Locking lug gets caught on follower when bringing bolt to the Rear. / chamber put on follower	100	101
BL	9-6-07	Endurance 101 - 500 Rounds		400	501
BL	9-7-07	Clean / Inspect	.003 4.75-4.75-5.0-5.0-5.0 Avg 4.9		

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

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R 2195780

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

GUN # D3
SERIAL # 71384729
CAL. 7MM REM. MAG

M/770 STAINLESS STEEL w/ Scope
DAILY DATA SHEET

TRACKING # TLW2359
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
BL	9-4-07	LABEL			
BL	9-4-07	INITIAL MEASUREMENTS			
BL	9-4-07	FIRECONTROL INSPECTION			
BL	9-4-07	MEASURE TRIGGER PULL	4.75 - 4.75 - 4.5 - 5.0 - 4.75 Avg 4.75		
BL	9-4-07	SAFETY FUNCTION TEST			
BL	9-4-07	HEADSPACE	+.003		
BL	9-4-07	PROOF	Good	1	1
BL	9-4-07	HEADSPACE	.004		
		~~ACCURACY~~			
BL	9-4-07	Clean before Accuracy			
BL	9-5-07	Endurance 0-100 Rounds	Locking Lug gets caught on follower when bringing Bolt to the rear	100	101
PKR BL	9-6-07	Accuracy		19	120
BL	9-10-07	Clean			

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

BLANK FORMS.XLS

R 2195781

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

GUN # D4
SERIAL # 71385284
CAL. 7MM REM. MAG

M/770 STAINLESS STEEL w/scope
DAILY DATA SHEET

TRACKING # TLW2359
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
BC	9-4-07	LABEL			
BL	9-4-07	INITIAL MEASUREMENTS			
BL	9-4-07	FIRECONTROL INSPECTION			
BL	9-4-07	MEASURE TRIGGER PULL	4.5 - 4.75 - 4.75 - 4.75 - 4.5 Avg 4.65		
BL	9-4-07	SAFETY FUNCTION TEST			
BL	9-4-07	HEADSPACE	+.002		
BL	9-4-07	PROOF	Good	1	1
BL	9-4-07	HEADSPACE	+.002		
		~~ACCURACY~~			
BL	9-4-07	Clean before Accuracy			
BL	9-5-07	Endurance 0-100 rounds	Locking lug gets caught on follower when bringing bolt to the rear	100	101
PRATT	9-6-07	Accuracy		19	120
BL	9-10-07	Clean			

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

BLANK FORMS.XLS

R 2195782

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

GUN # D5
SERIAL # 71385225
CAL. 7MM REM. MAG

M/770 STAINLESS STEEL w/ scope
DAILY DATA SHEET

TRACKING # TLW2359
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
BL	9-4-07	LABEL			
BL	9-4-07	INITIAL MEASUREMENTS			
BL	9-4-07	FIRECONTROL INSPECTION			
BL	9-4-07	MEASURE TRIGGER PULL	4.0 - 4.25 - 4.0 - 4.5 - 4.25 Avg 4.2		
BL	9-4-07	SAFETY FUNCTION TEST			
BL	9-4-07	HEADSPACE	+.002		
BL	9-4-07	PROOF	Good	1	1
BL	9-4-07	HEADSPACE	.003		
		~~ACCURACY~~			
BL	9-4-07	Clean before Accuracy			
BL	9-5-07	Endurance 0-100 Rounds	Locking lug gets caught on follower when bringing bolt to the rear	100	101
PKR/BA	9-6-07	Accuracy		20	121

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

BLANK FORMS.XLS

R 2195783

GUN # E1
SERIAL # 71390508
CAL. .270 WIN

M/770 STAINLESS STEEL w/ Scope
DAILY DATA SHEET

TRACKING # TLW2359
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
BL	9-4-07	LABEL			
BL	9-4-07	INITIAL MEASUREMENTS			
BL	9-4-07	FIRECONTROL INSPECTION			
BL	9-4-07	MEASURE TRIGGER PULL	4.75-4.75-4.5-4.5-4.5 Avg. 4.6		
BL	9-4-07	SAFETY FUNCTION TEST			
BL	9-4-07	HEADSPACE	+.002		
BL	9-4-07	PROOF	Good	1	1
BL	9-4-07	HEADSPACE	.002		
		~~ACCURACY~~			
BL	9-4-07	Clean Before Accuracy			
BL	9-5-07	Endurance 0-100 Rounds	When bringing bolt to rear the Locking Lug gets caught on follower at times	100	101
BL	9-6-07	Endurance	magazine release button Broke, Replaced with new stock 120 rds / Chamber put on Follower		
BL	9-6-07	Endurance 101-500 Rounds		400	501
BL	9-7-07	Clean / Inspect	+.003 5.0-5.0-5.0-5.0-5.25 Avg 5.05		
BL	9-7-07	Endurance 501-1000 Rounds		500	1001
BL	9-7-07	Clean / Inspect	+.003 5.0-5.0-5.25-5.0-5.25 Avg 5.1		

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

R 2195784

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

GUN # E2
SERIAL # 71384790
CAL. .270 WIN

M/770 STAINLESS STEEL w/ scope
DAILY DATA SHEET

TRACKING # TLW2359
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
BL	9-4-07	LABEL			
BL	9-4-07	INITIAL MEASUREMENTS			
BL	9-4-07	FIRECONTROL INSPECTION			
BL	9-4-07	MEASURE TRIGGER PULL	4.25 - 4.25 - 4.25 - 4.25 - 4.0 Avg. 4.2		
BL	9-4-07	SAFETY FUNCTION TEST			
BL	9-4-07	HEADSPACE	+.001		
BL	9-4-07	PROOF	Good	1	1
BL	9-4-07	HEADSPACE	.002		
		~~ACCURACY~~			
BL	9-4-07	Clean before accuracy			
BL	9-5-07	Endurance 0-100 Rounds	when bringing bolt to rear the locking Lug gets caught on follower at times / Mentor put on follower	100	101
BL	9-6-07	Endurance 101-500 Rounds		400	501
BL	9-7-07	Clean / Inspect	+.002 5.0 - 5.0 - 4.75 - 4.75 - 5.0 Avg 4.9		

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

BLANK FORMS.XLS

R 2195785

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

GUN # E3
SERIAL # 71384941
CAL. .270 WIN

M/770 STAINLESS STEEL w/ Scope
DAILY DATA SHEET

TRACKING # TLW2359
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
BL	9-4-07	LABEL			
BL	9-4-07	INITIAL MEASUREMENTS			
BL	9-4-07	FIRECONTROL INSPECTION			
BL	9-4-07	MEASURE TRIGGER PULL	4.25 - 4.5 - 4.25 - 4.5 - 4.75 Avg 4.45		
BL	9-4-07	SAFETY FUNCTION TEST			
BL	9-4-07	HEADSPACE	+.003		
BL	9-4-07	PROOF	Good	1	1
BL	9-4-07	HEADSPACE	.003		
		~~ACCURACY~~			
BL	9-4-07	Clean before Accuracy			
BL	9-5-07	Endurance 0-100 Rounds	when bringing bolt to rear the locking lug gets caught on follower at times	100	101
BL	9-6-07	Accuracy		18	119
BL	9-10-07	Clean			

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

BLANK FORMS.XLS

R 2195786

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

GUN # E4
SERIAL # 71385409
CAL. .270 WIN

M/770 STAINLESS STEEL w/ Scope
DAILY DATA SHEET

TRACKING # TLW2359
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
BL	9-4-07	LABEL			
BL	9-4-07	INITIAL MEASUREMENTS			
BL	9-4-07	FIRECONTROL INSPECTION			
BL	9-4-07	MEASURE TRIGGER PULL	4.0 - 4.75 - 4.25 - 4.5 - 4.75 Avg. 4.45		
BL	9-4-07	SAFETY FUNCTION TEST			
BL	9-4-07	HEADSPACE	+.002		
BL	9-4-07	PROOF	Good	1	1
BL	9-4-07	HEADSPACE	.004		
		~~ACCURACY~~			
BL	9-4-07	Clean before accuracy			
BL	9-5-07	Endurance 0-100 Rounds	When bringing bolt to rear locking lug gets caught on follower at times	100	101
PKR/jga	9-6-07	Accuracy		21	122
BL	9-10-07	Clean			

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

BLANK FORMS.XLS

R 2195787

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

GUN # E5
SERIAL # 71386441
CAL. .270 WIN

M/770 STAINLESS STEEL w/ scope
DAILY DATA SHEET

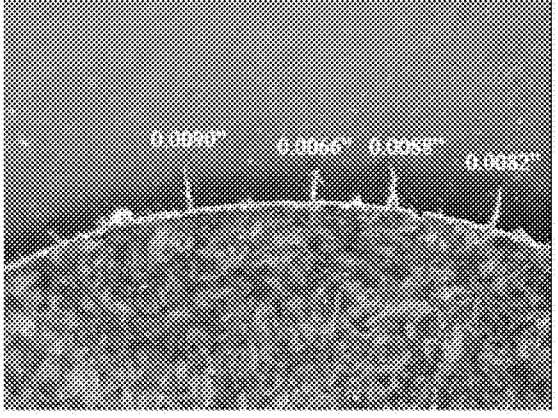
TRACKING # TLW2359
PROJECT #241230

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
BL	9-4-07	LABEL			
BL	9-4-07	INITIAL MEASUREMENTS			
BL	9-4-07	FIRECONTROL INSPECTION			
BL	9-4-07	MEASURE TRIGGER PULL	5.0 - 5.0 - 5.0 - 5.0 - 5.0 Avg 5.0		
BL	9-4-07	SAFETY FUNCTION TEST			
BL	9-4-07	HEADSPACE	+.003		
BL	9-4-07	PROOF	Good	1	1
BL	9-4-07	HEADSPACE	.003		
		~~ACCURACY~~			
BL	9-4-07	Clean before Accuracy			
BL	9-5-07	Endurance 0-100 Rounds	when bringing bolt forward Locking lug gets caught on follower at times	100	101
PRESS	9-6-07	Accuracy		21	122

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

BLANK FORMS.XLS

R 2195788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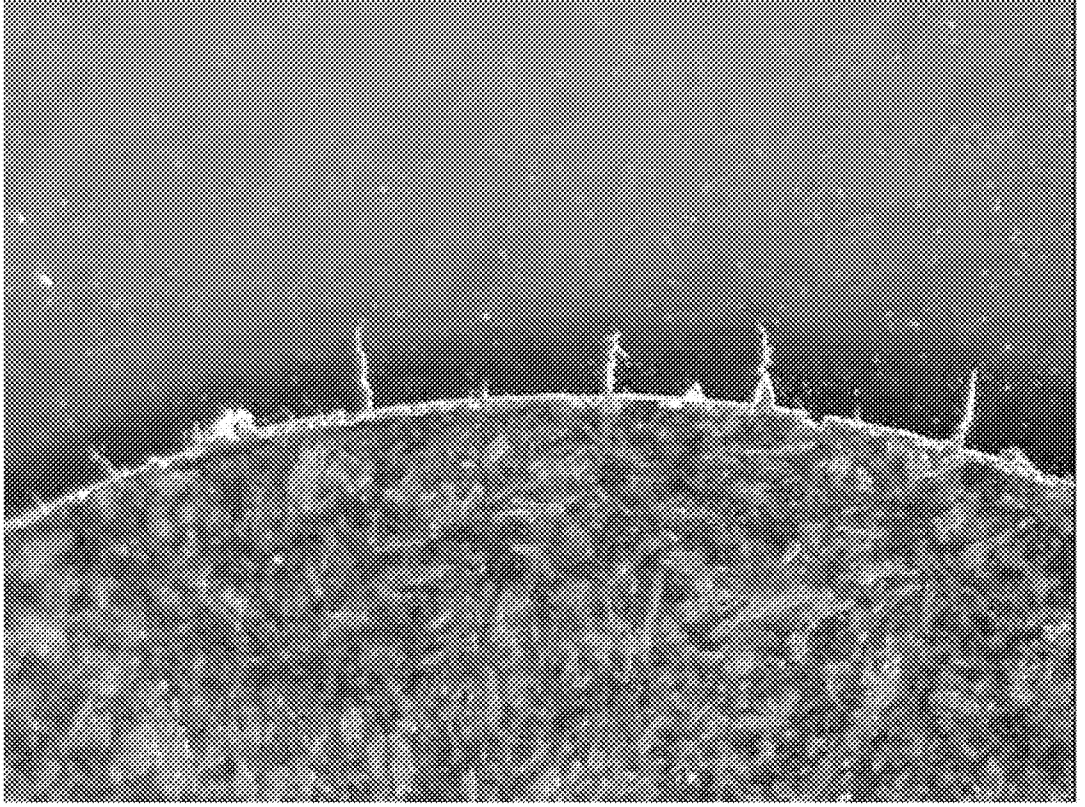

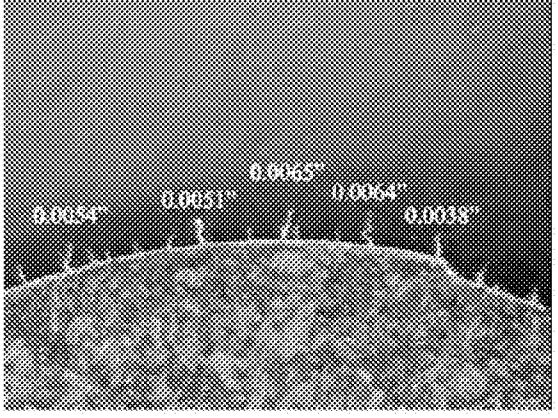
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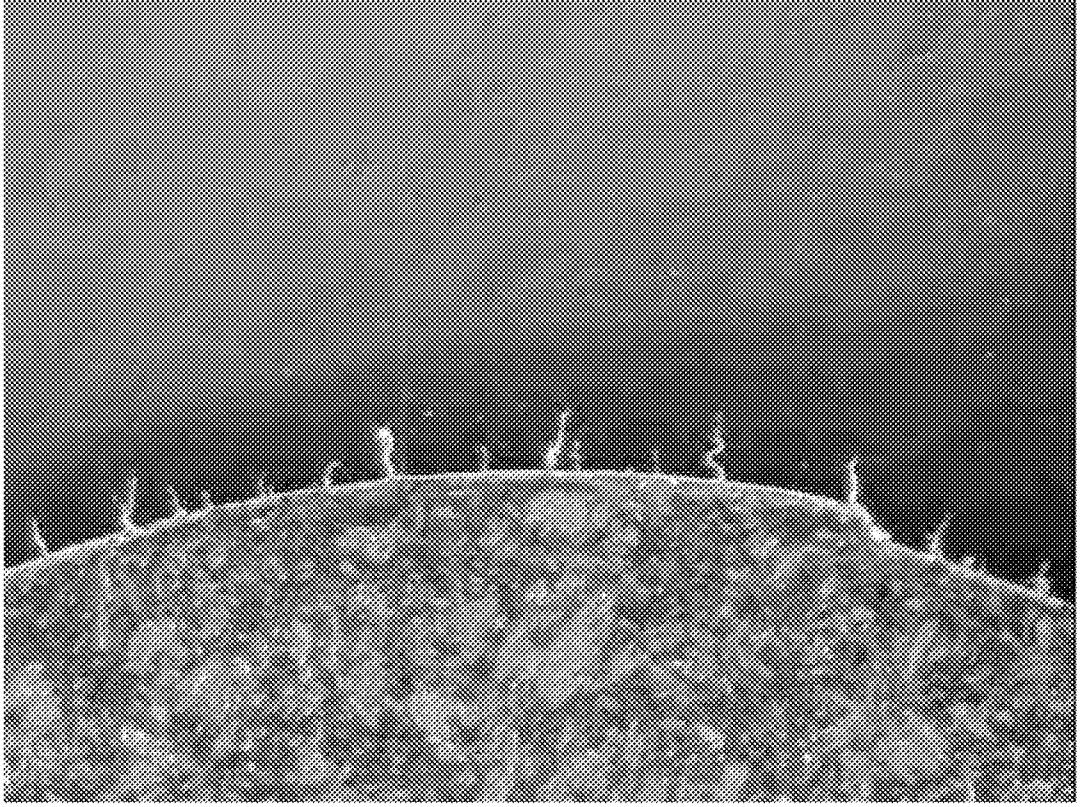

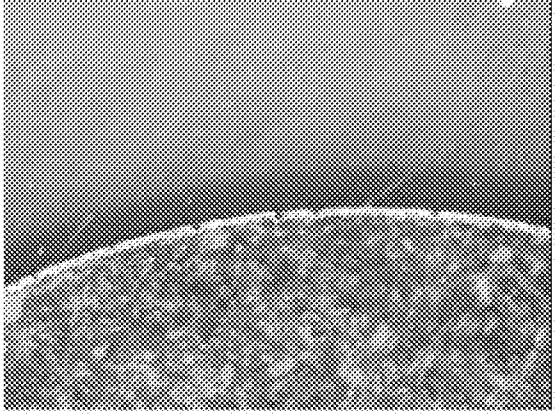

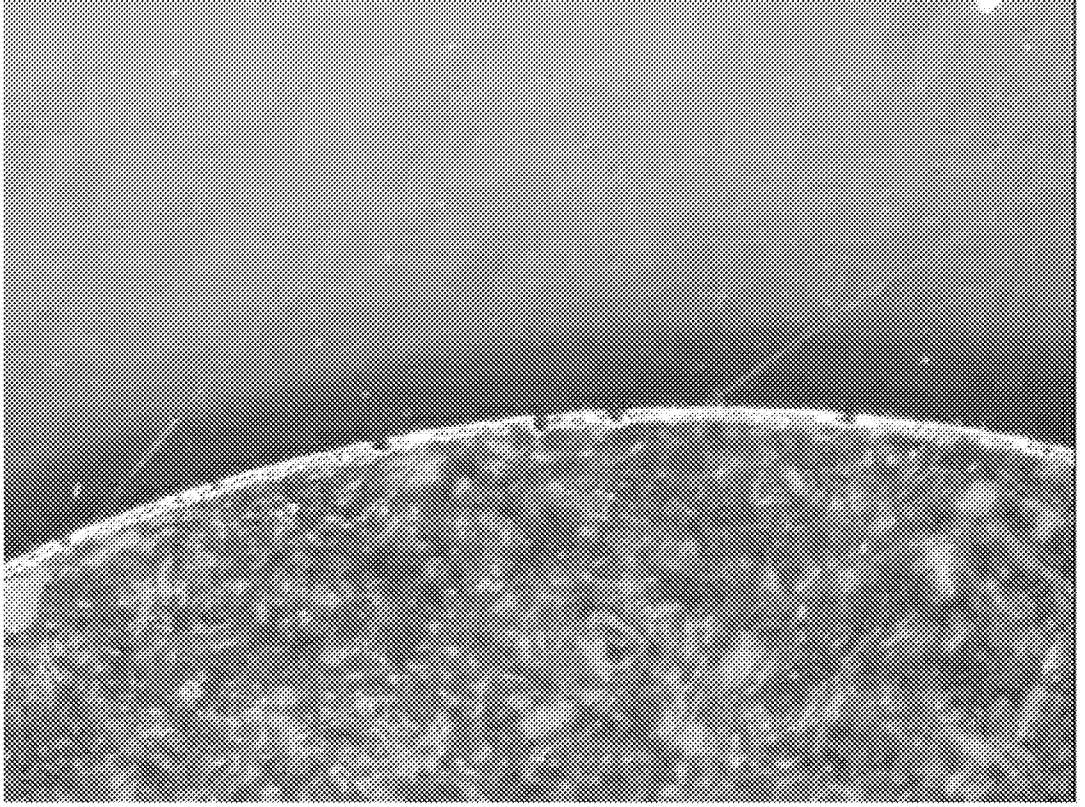

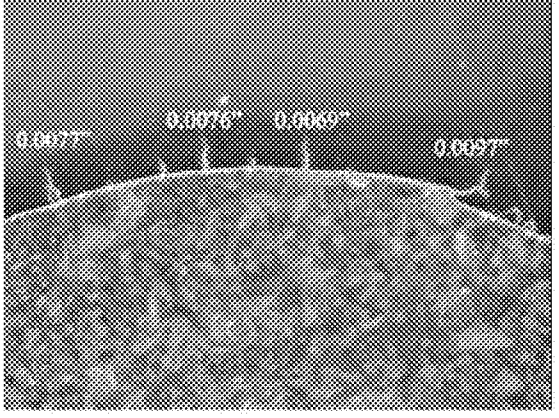
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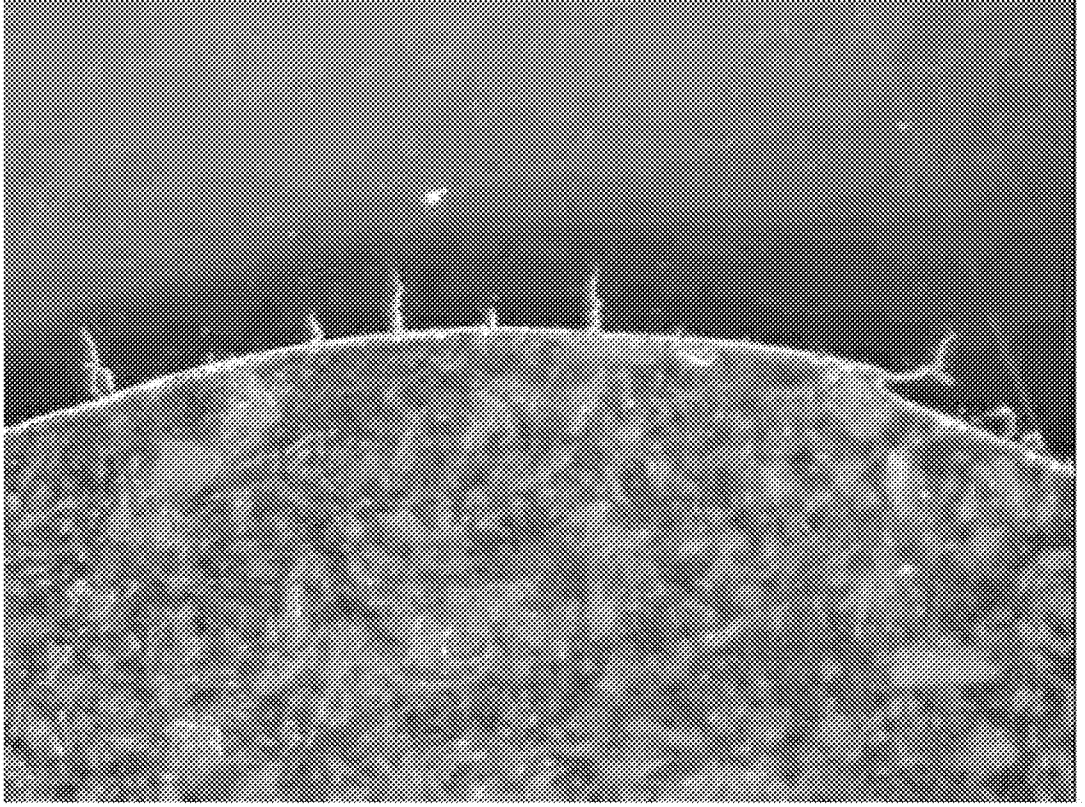

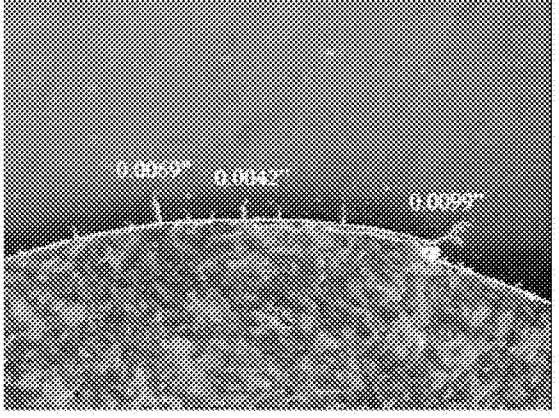
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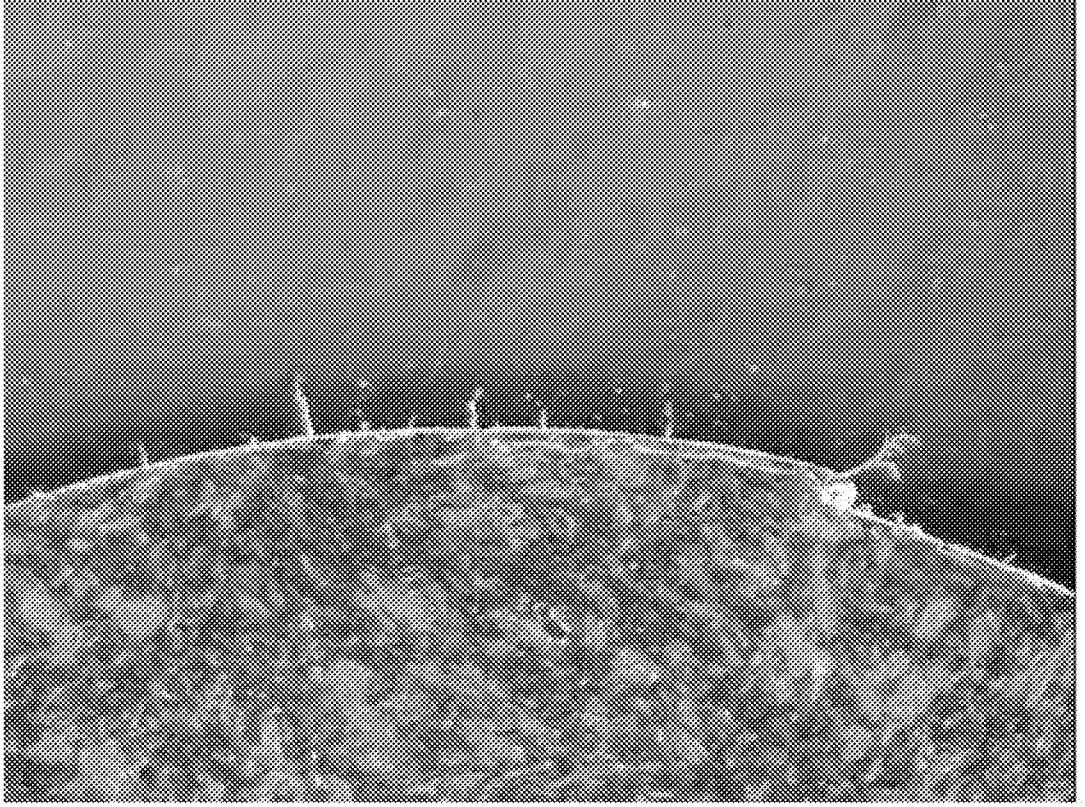

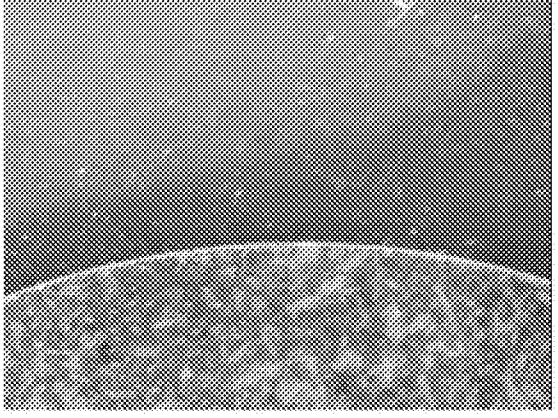

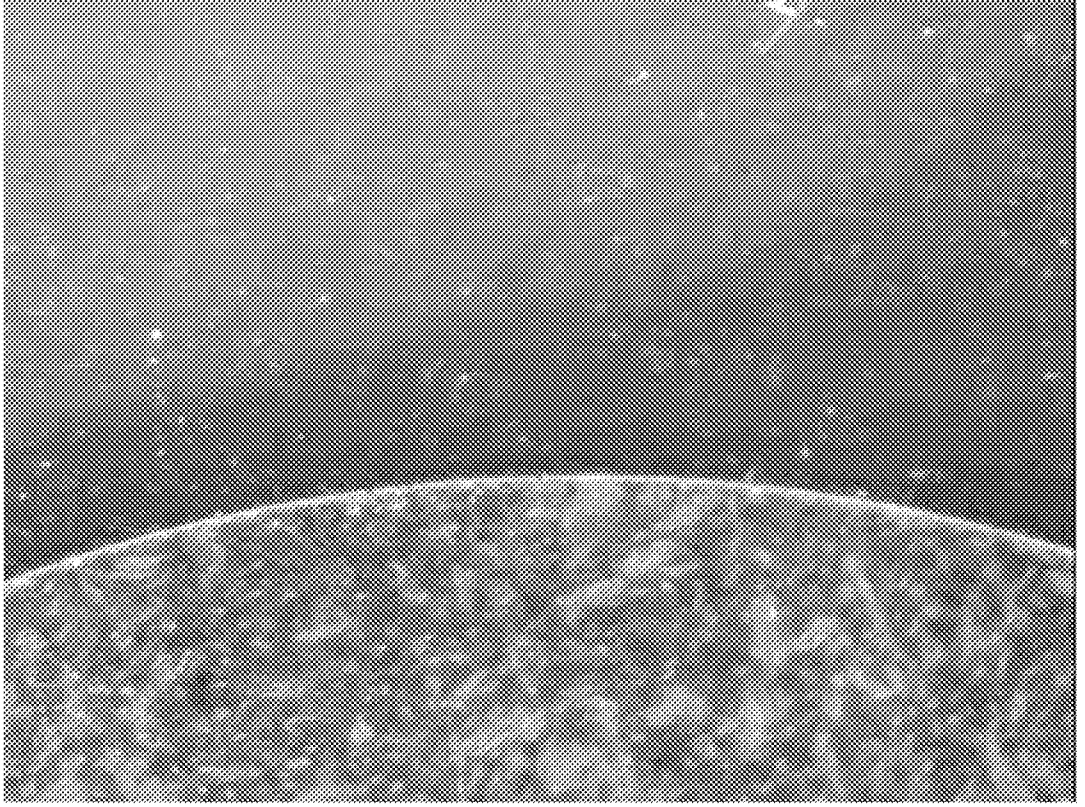

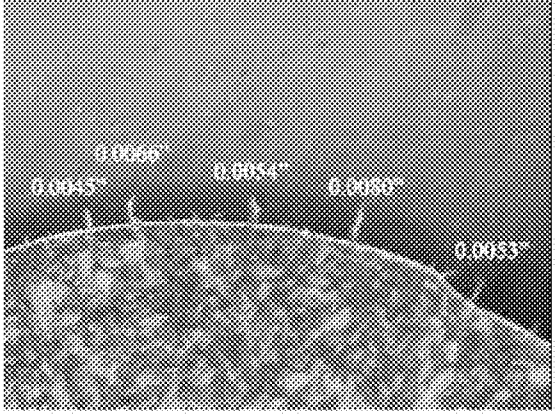
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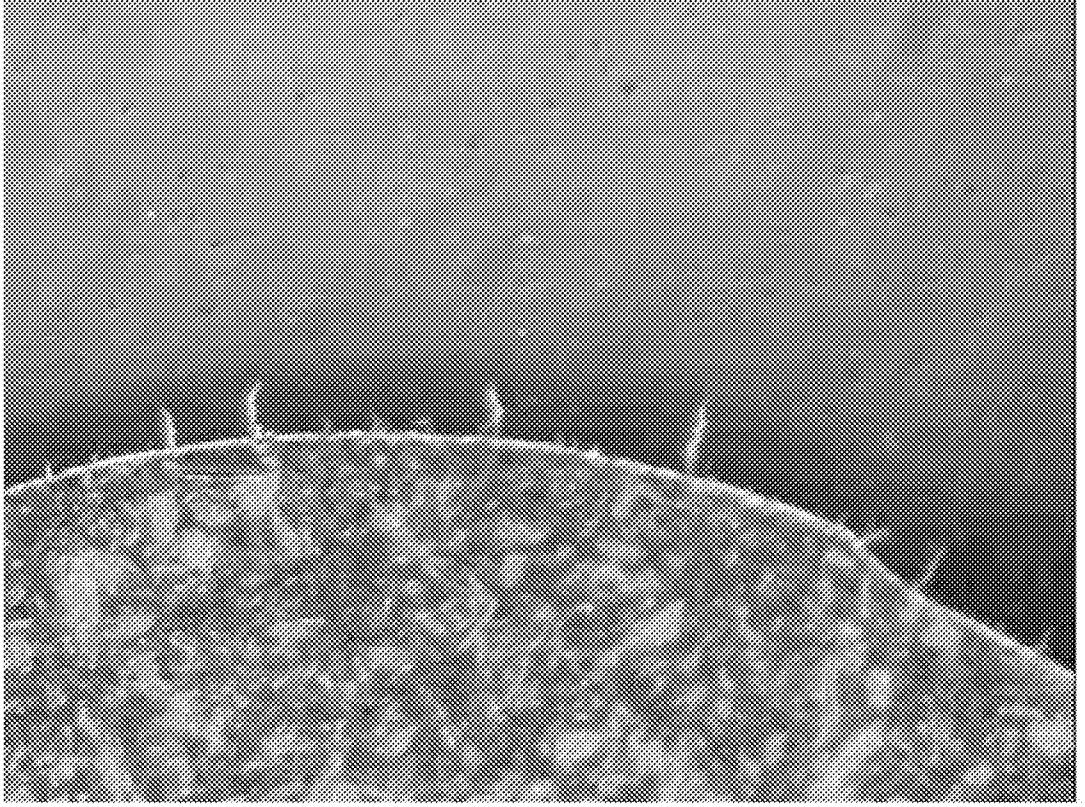

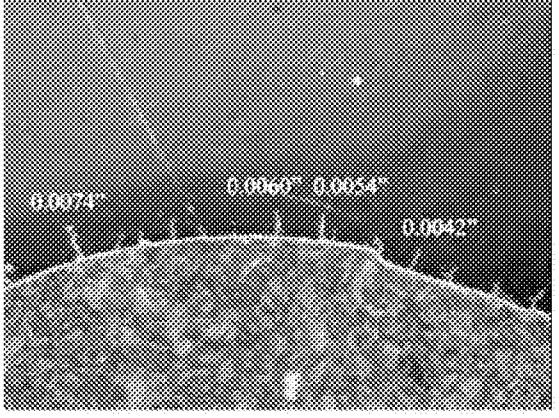
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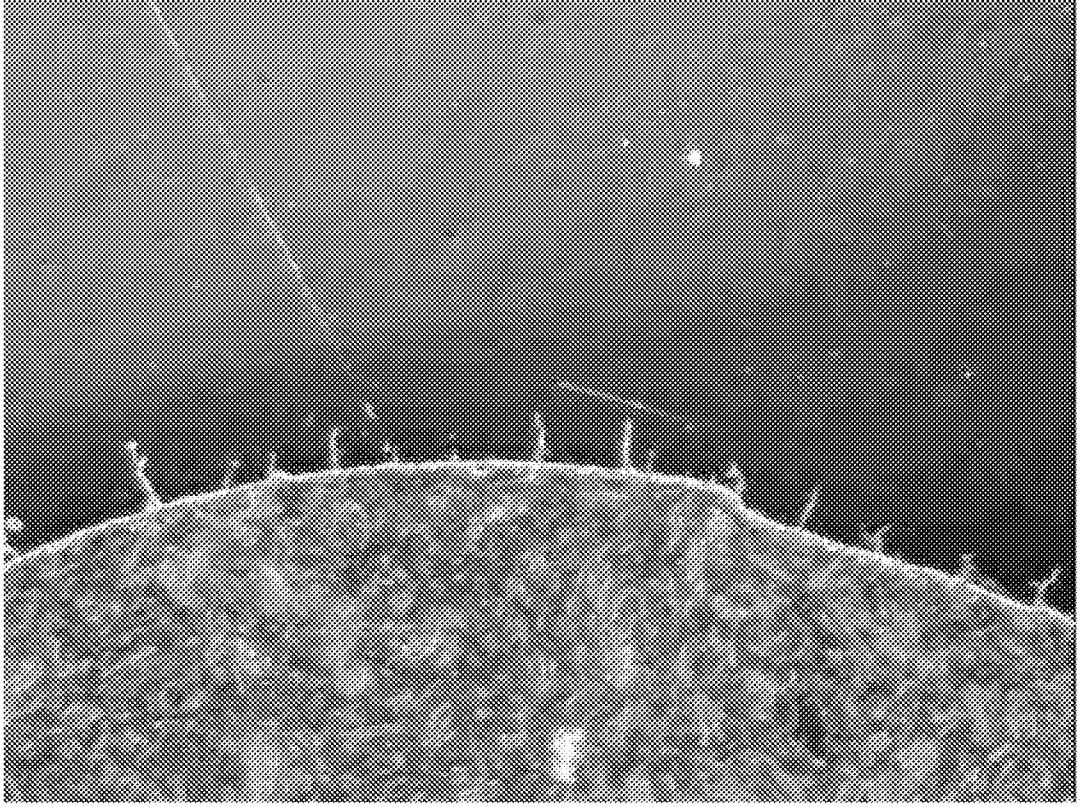

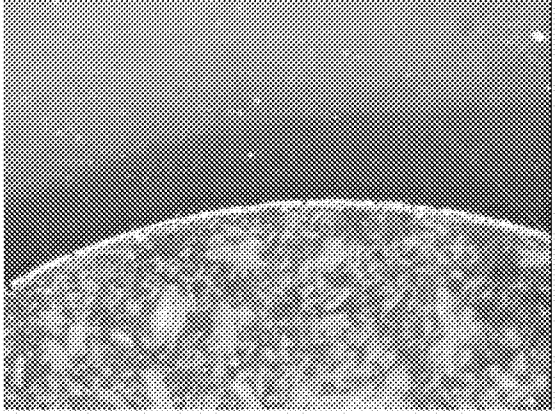

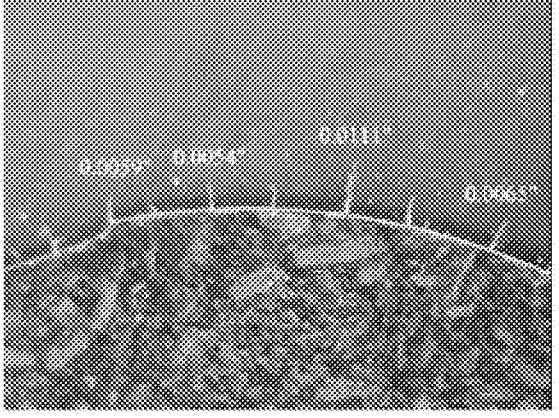

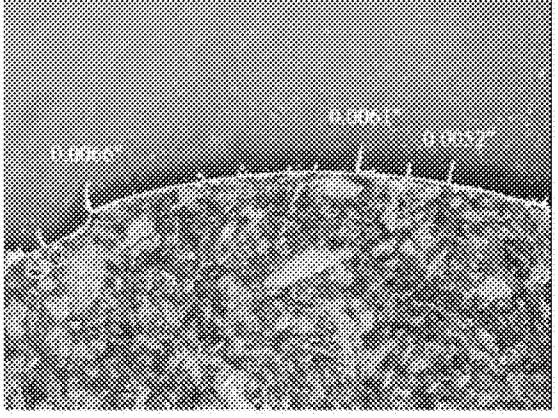

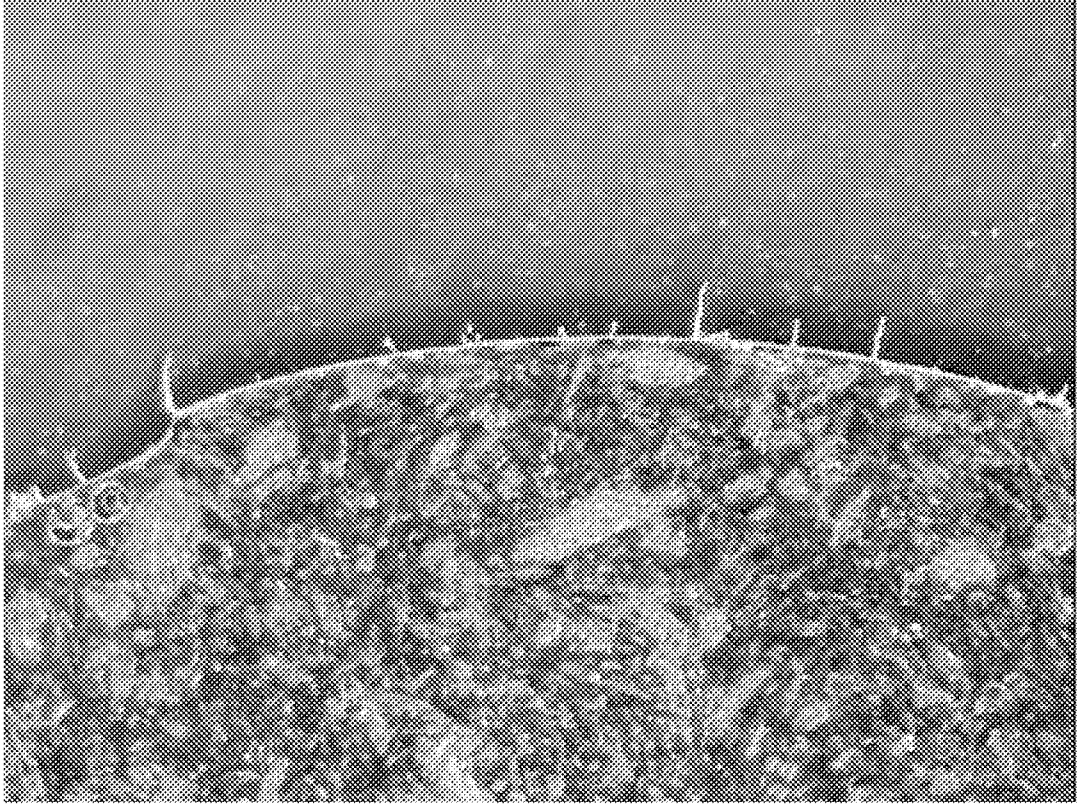

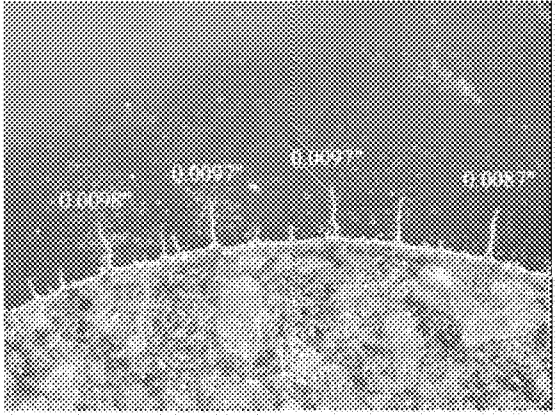

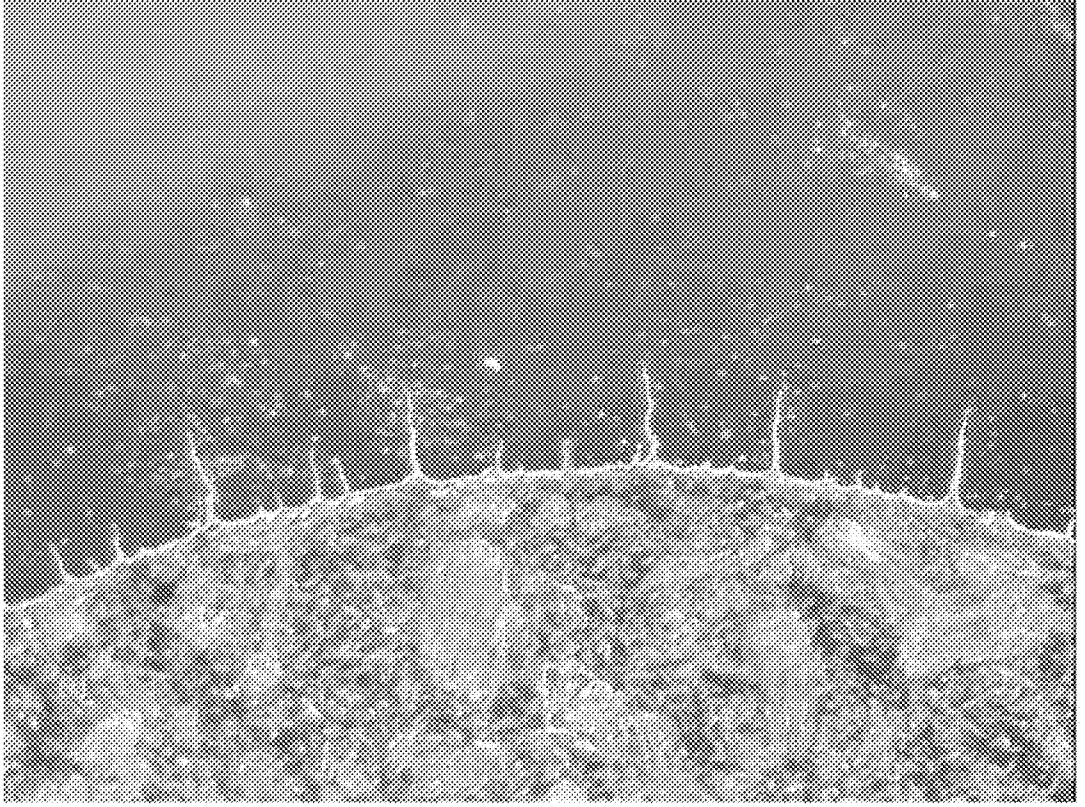

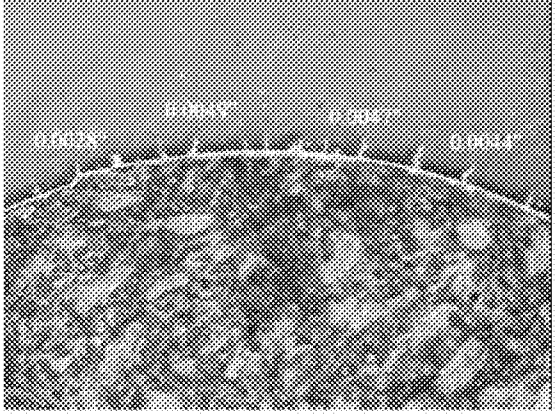

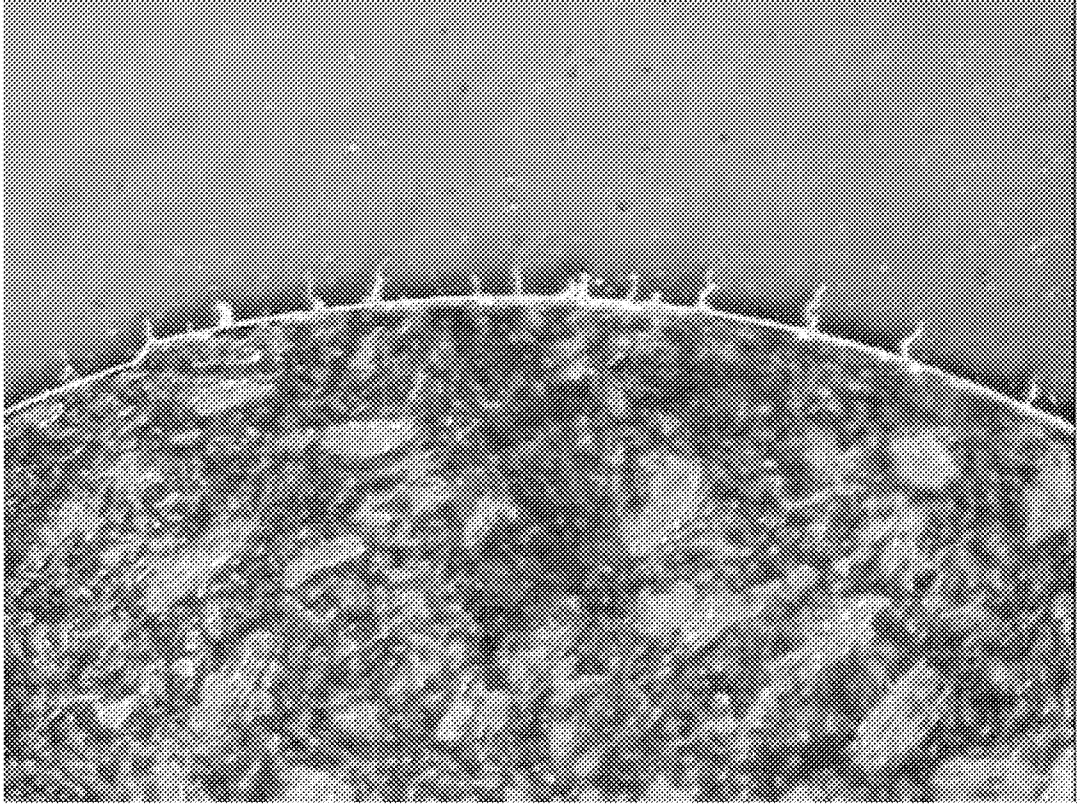

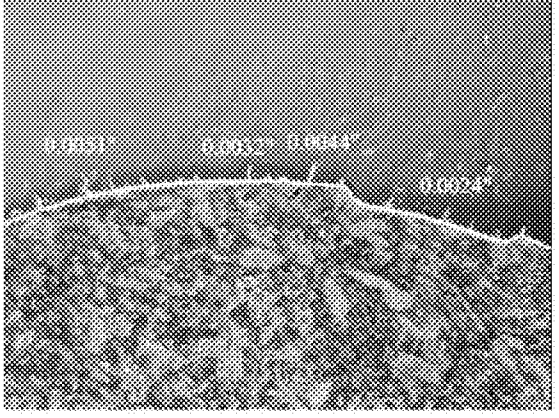

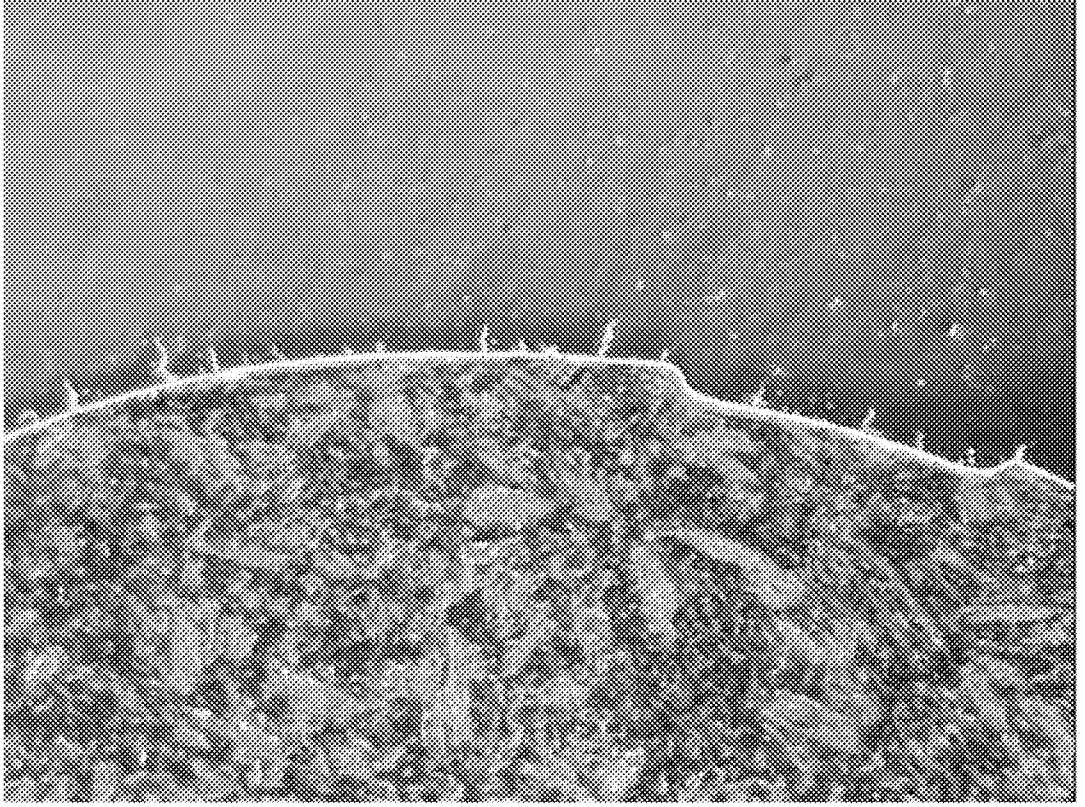

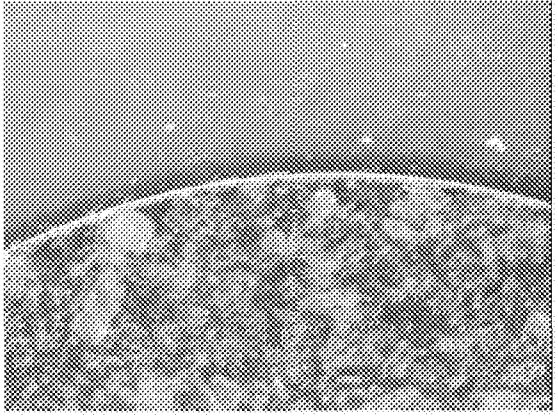

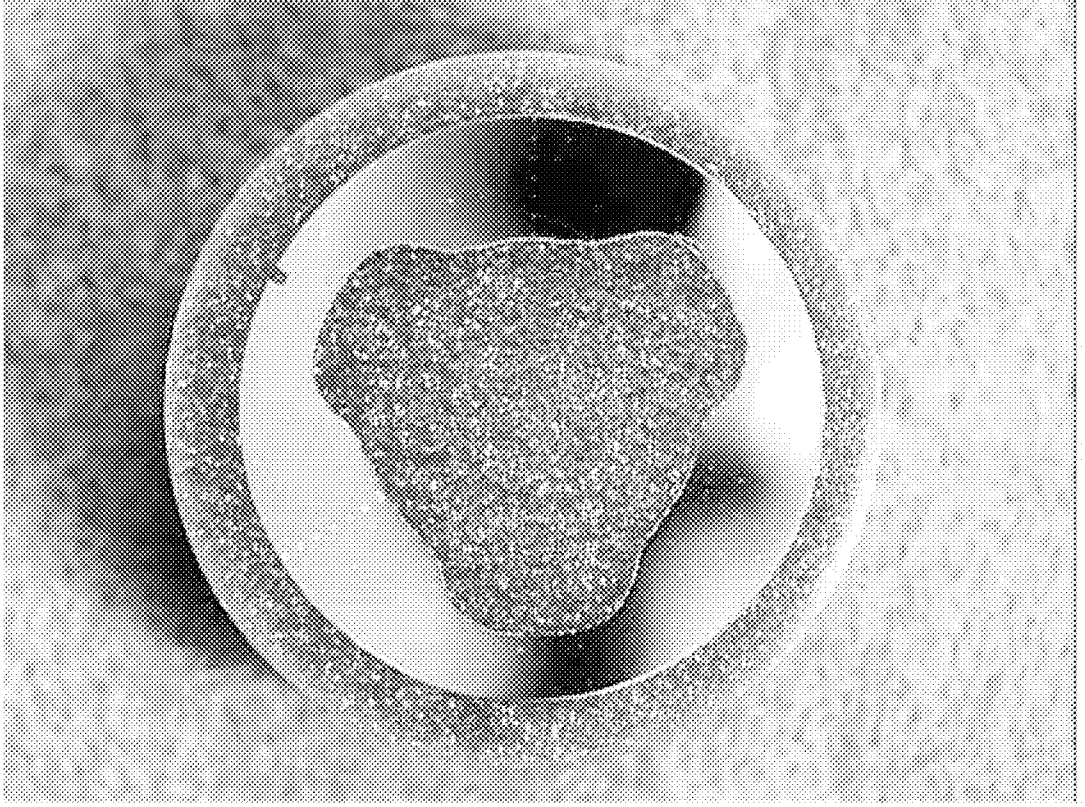

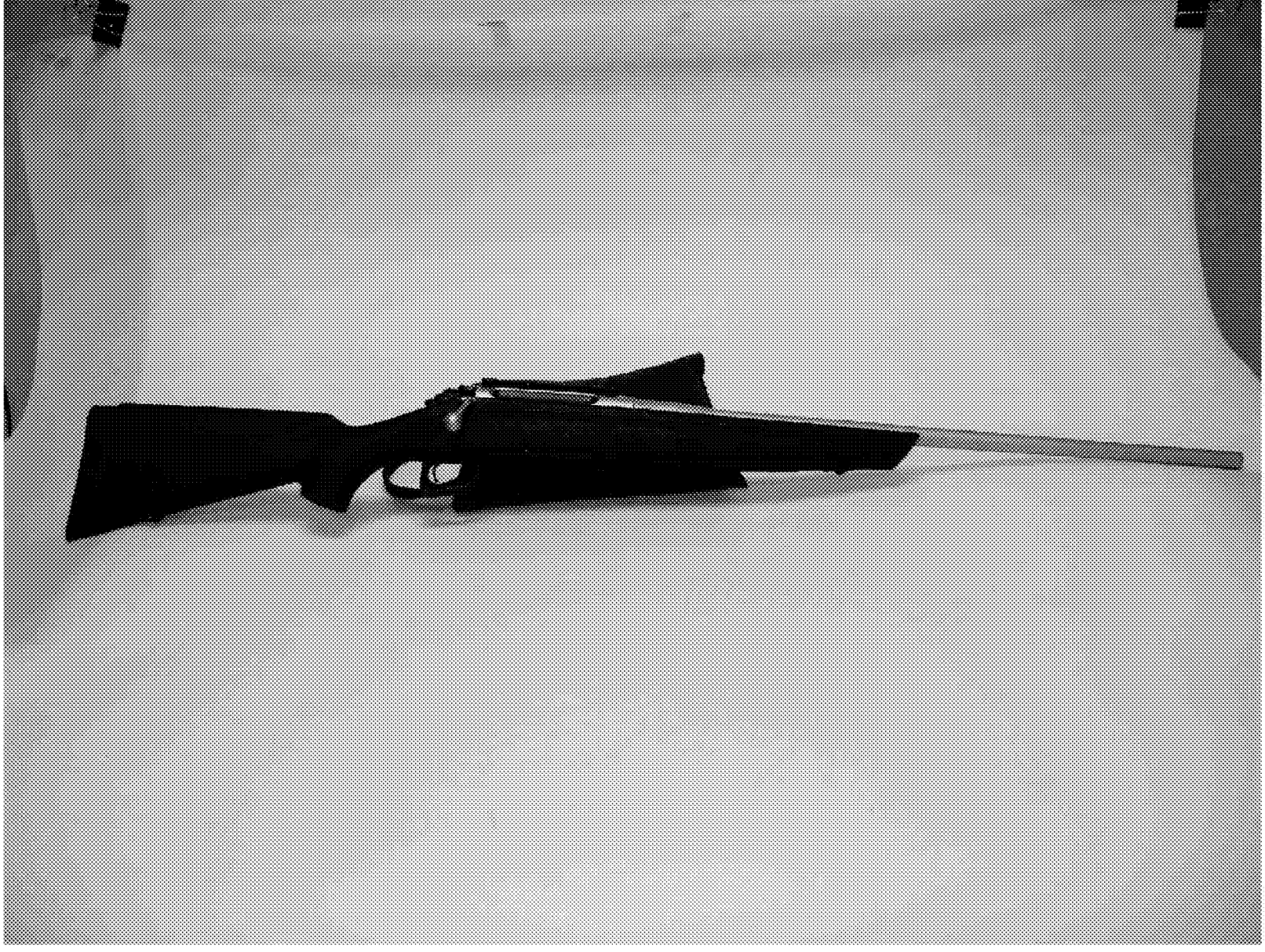

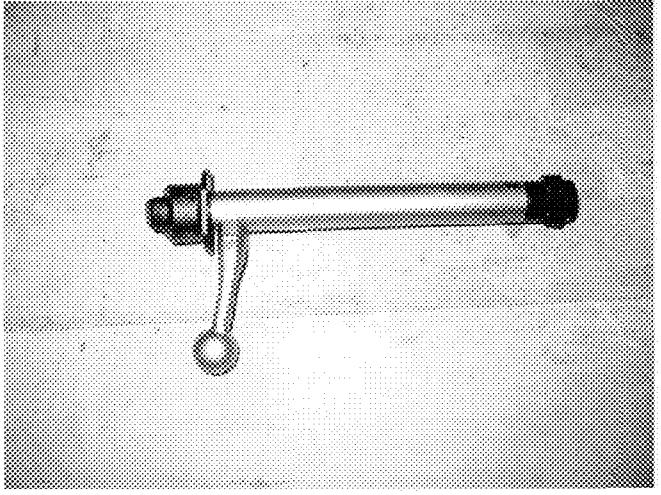

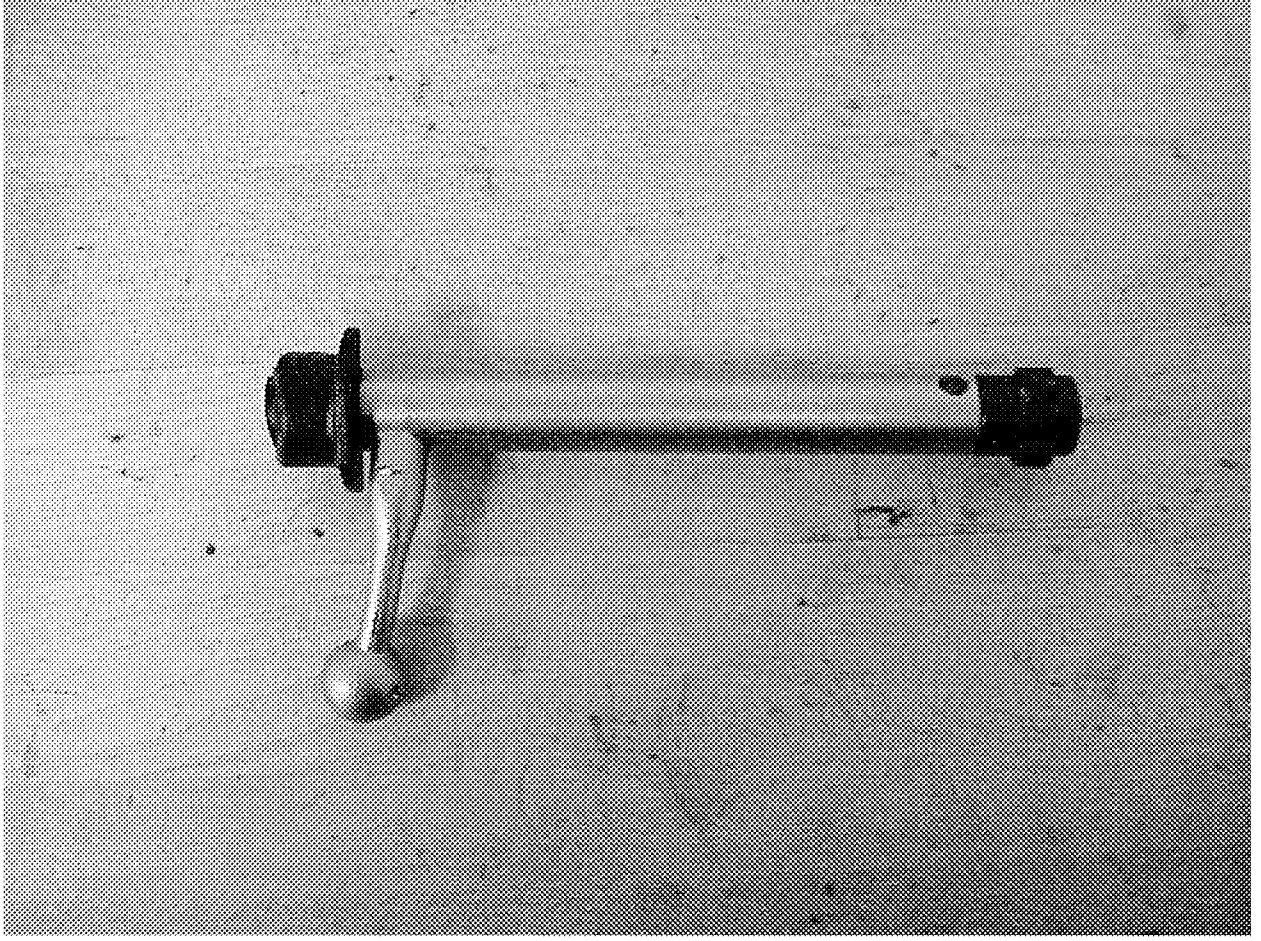

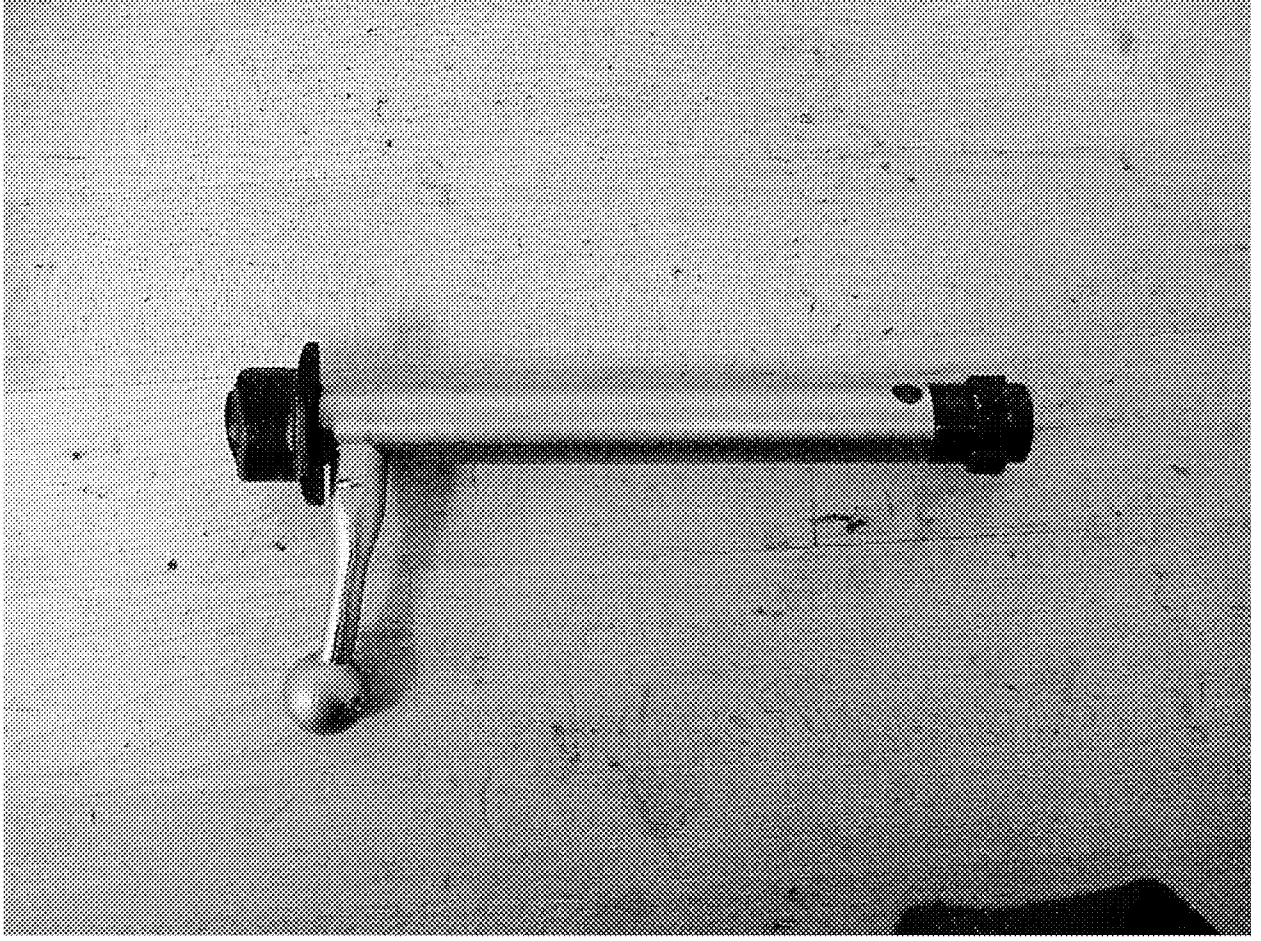

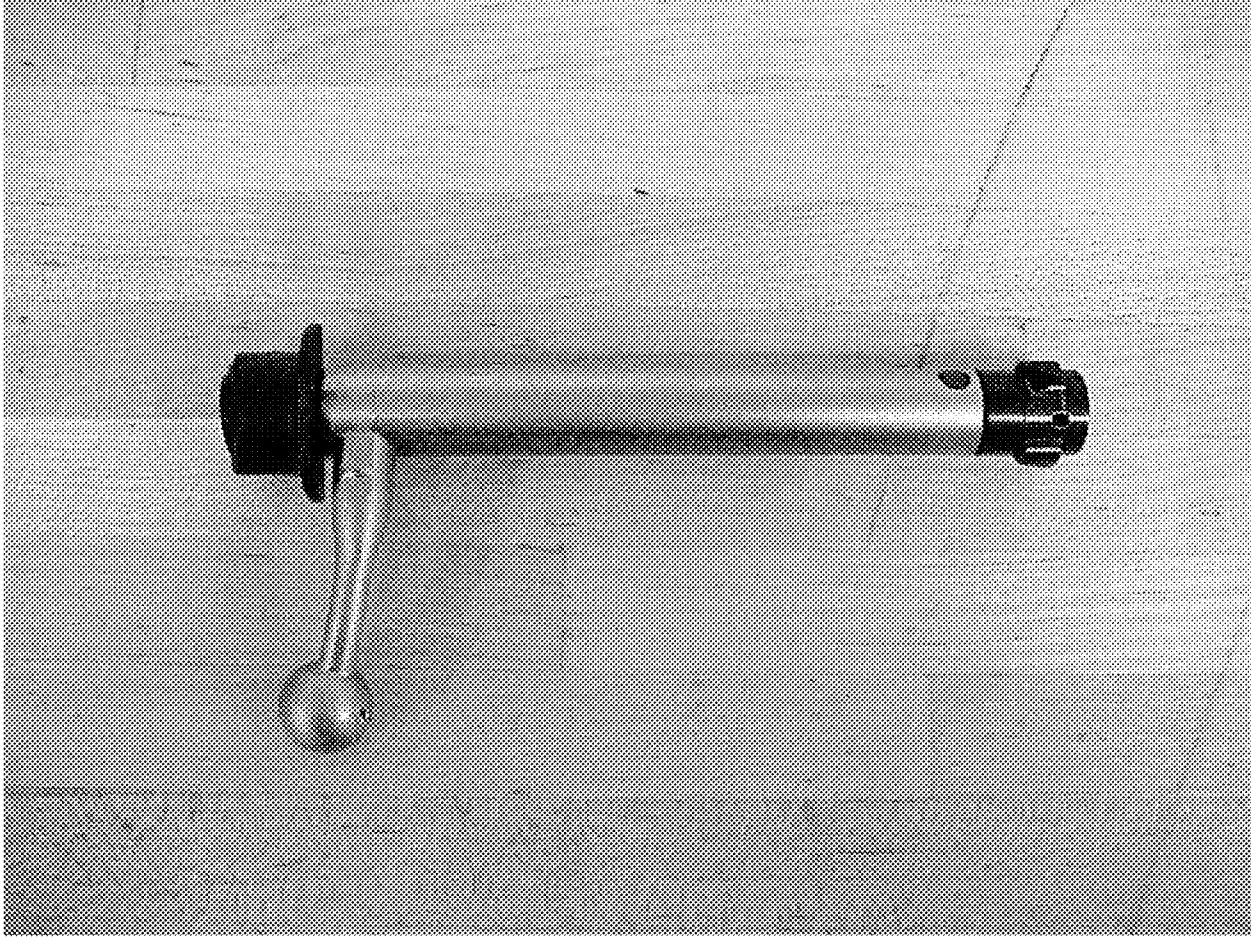

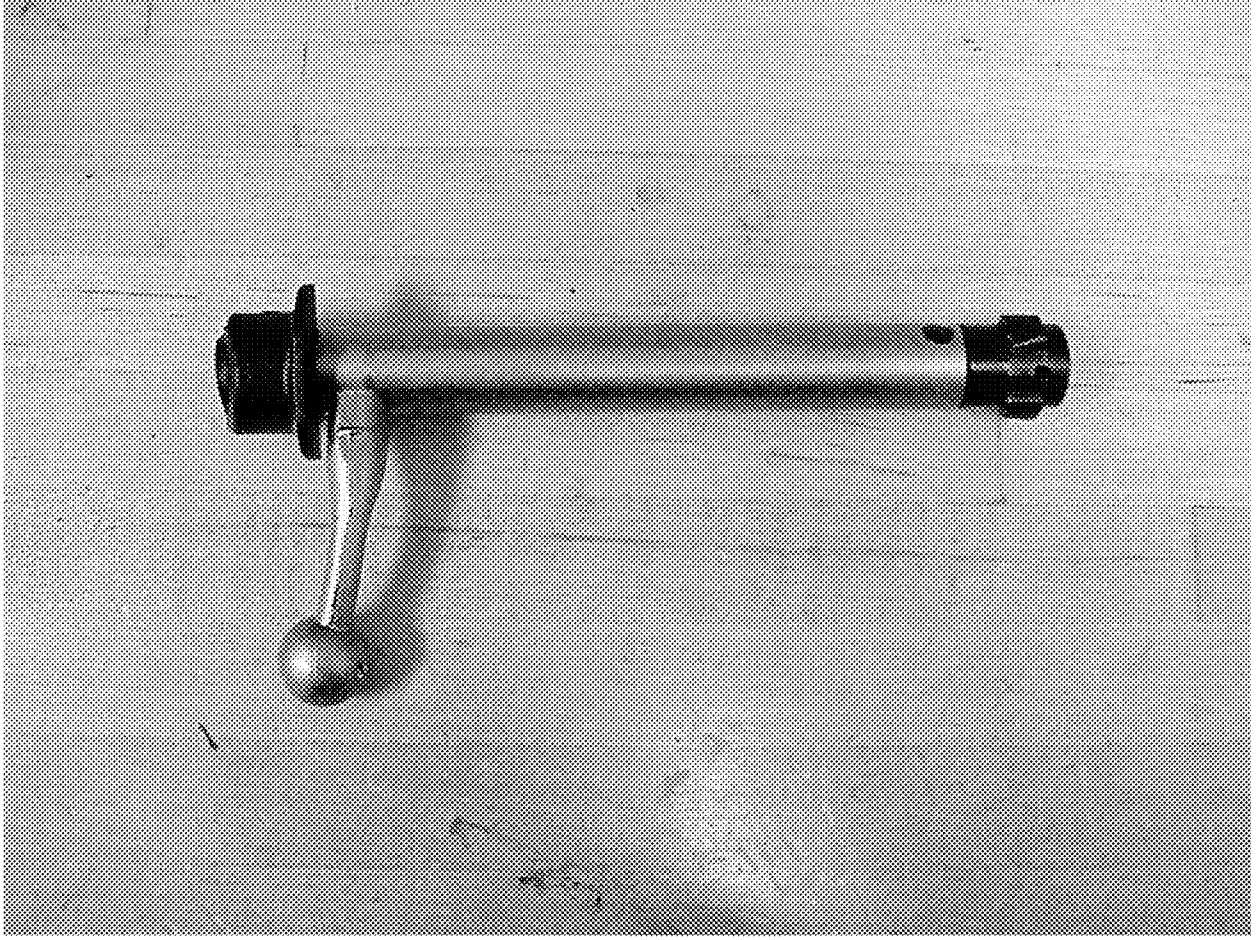

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