

C6587638

TM

Arms Services Repair & Estimate System

File Add Repair Estimate Repair Expedite Repair Inquiry Repair Tools CSR Tools Reports Table Maintenance System Maintenance Help

Repair Inquiry

Repair Number: RE00135184

Serial: C6587638 Model M24 SWS Center Fire
Caliber: 7.62 NATO

Repairman:

Verify Repair

Status:

Closed 10/10/2007 10:41:01 AM

Address Information

Customer:

☒ Received From

Return To:

☐ Received From

Name: USPEO FOR OHIO

USPEO FOR OHIO

Address 1: SS-SD BRANCH

SS-SD BRANCH

Address 2: 1217 HOLLAR LN

PO Box:

1217 HOLLAR LN

PO Box:

City: NEWARK

NEWARK

State: OH

Zip Code: 43055

Country: US

State: OH

Zip Code: 43055

Country: US

FFL:

Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

Contact Information

Phone: NN

Fax:

Email:

Comments:

Received Condition

Fair

Condition
Notes:CSR
Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	3
A010	Hard Case	1
A017	Scope Base	1
A026	Scope	1
A045	Bi Pod	1
A057	Front and Rear Sgt Base	1
D000	SCOPE CASE	1

Repair Search

Refresh

Close

nagletj

10/10/2007

10:50 AM

CAPS

NUM

INS

SCRL



10:50 AM

Serial
Number:

C6587638

Model: M24 SWS

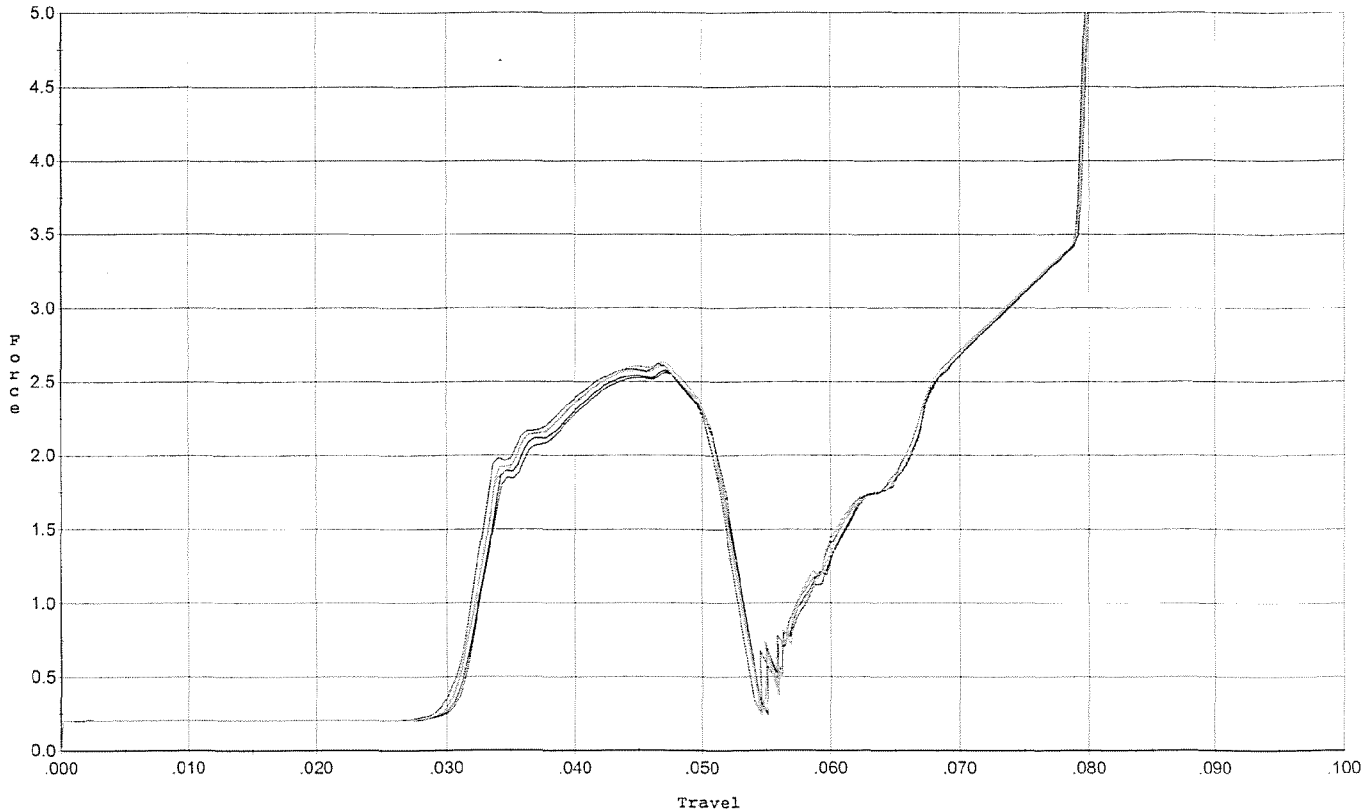


RE00135184

Trigger Profile [lbs,inch]

Profile: SWS
GunType: Rifle
Make: Remington
Note: R. Putsch 10/13/07

Model: M/24
Serial No: Form #F005
Trigger: 2.5 lbs. ini. +/- .50 lbs.



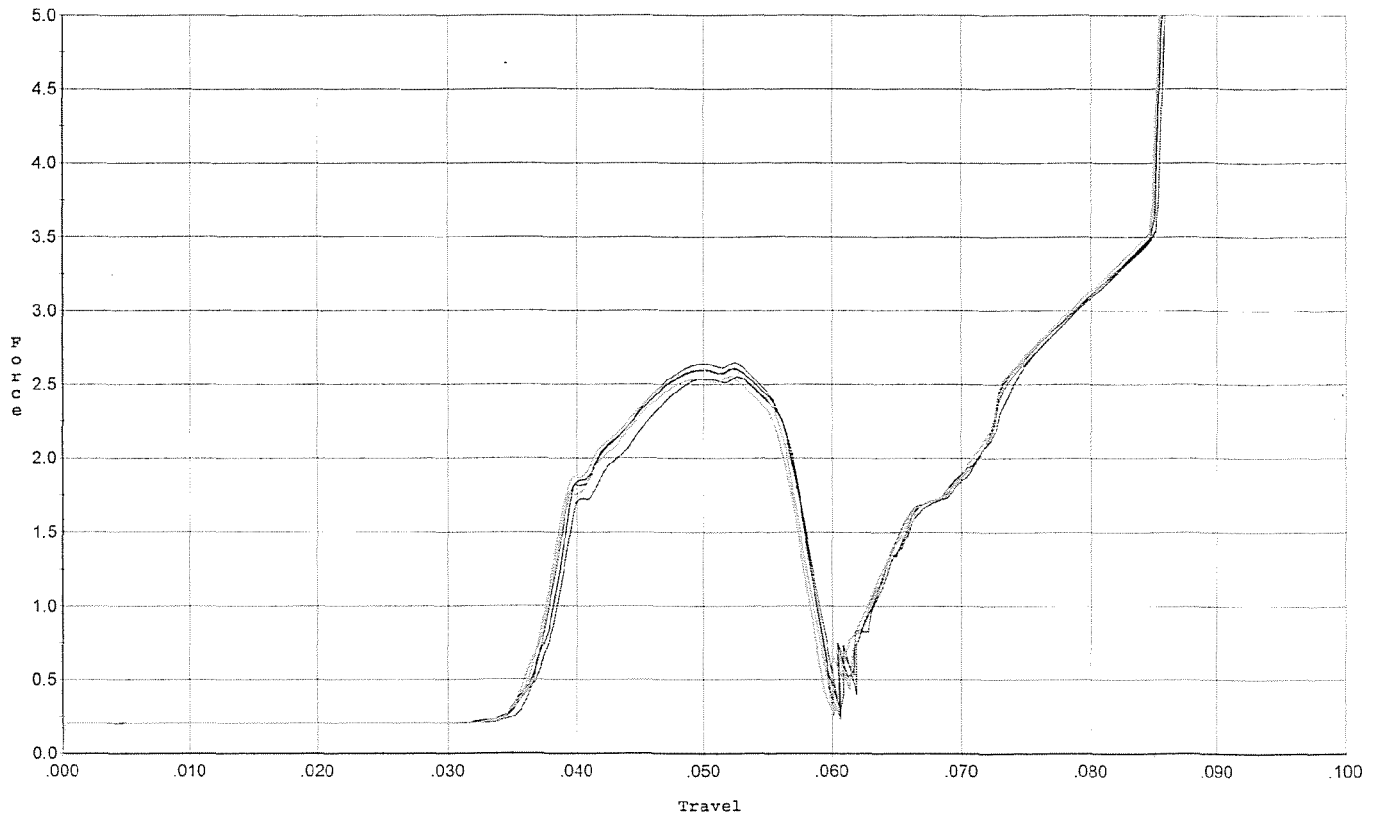
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	2.565	0.052	0.031	0.033	0.050		Set Trigger
2	2.580	0.052	0.031	0.033	0.051		Set Trigger
3	2.620	0.051	0.030	0.033	0.052		Set Trigger
4	2.634	0.053	0.030	0.033	0.052		Set Trigger
5	2.601	0.051	0.030	0.033	0.050		Set Trigger

Avg. 2.60

Trigger Profile [lbs,inch]

Profile: SWS
 GunType: Rifle
 Make: Remington
 Note: R. Putch 10/13/07

Model: M/24
 Serial No: Form #F005
 Trigger: 2.5 lbs. after 50 cycles +/- .50 lbs.



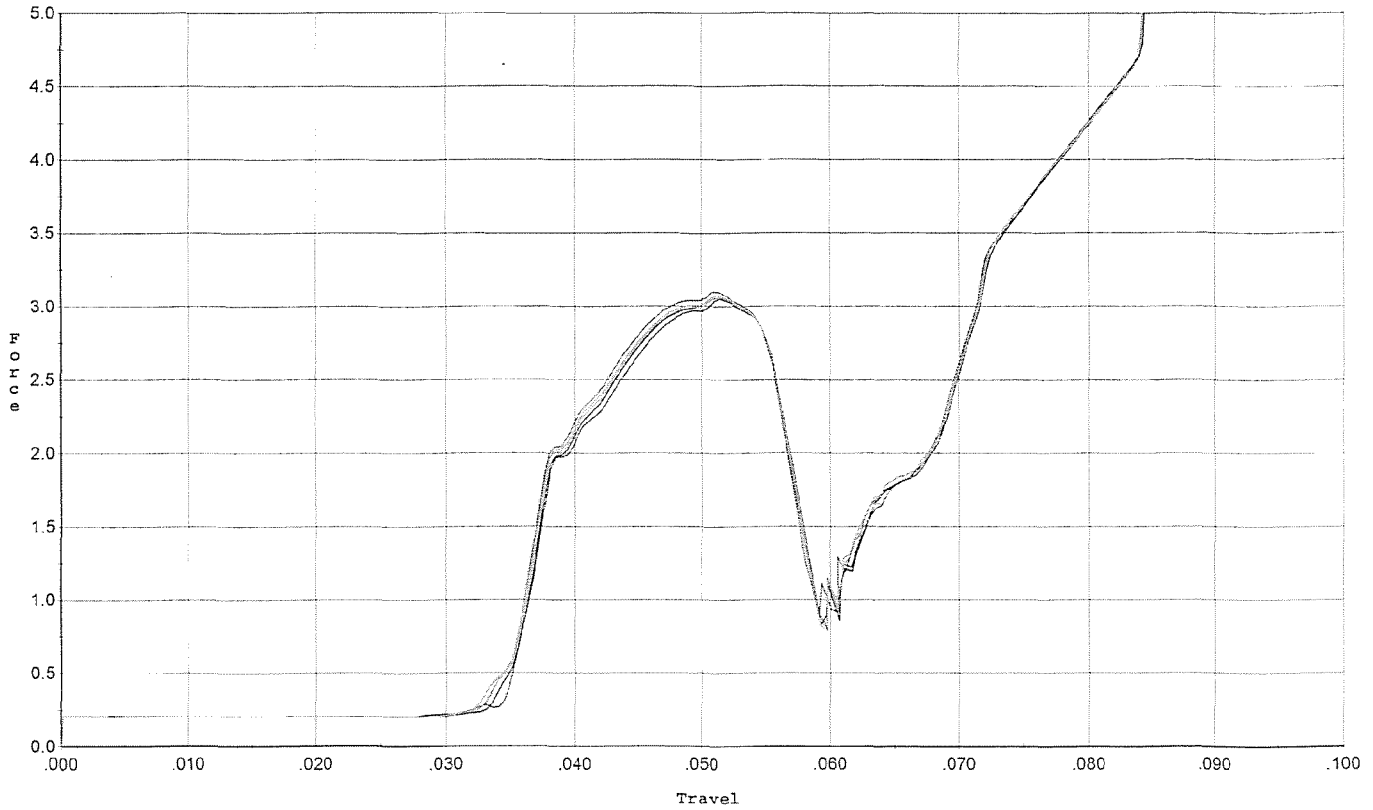
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	2.552	0.057	0.037	0.035	0.051		Set Trigger
2	2.608	0.057	0.035	0.035	0.053		Set Trigger
3	2.650	0.057	0.036	0.035	0.053		Set Trigger
4	2.554	0.057	0.035	0.035	0.051		Set Trigger
5	2.608	0.056	0.035	0.035	0.052		Set Trigger

Avg 2.59

Trigger Profile [lbs,inch]

Profile: SWS
 GunType: Rifle
 Make: Remington
 Note: R. Putch 10/13/07

Model: M/24
 Serial No: Form #F005
 Trigger: 3.0 lbs. ini. +/- .75 lbs.



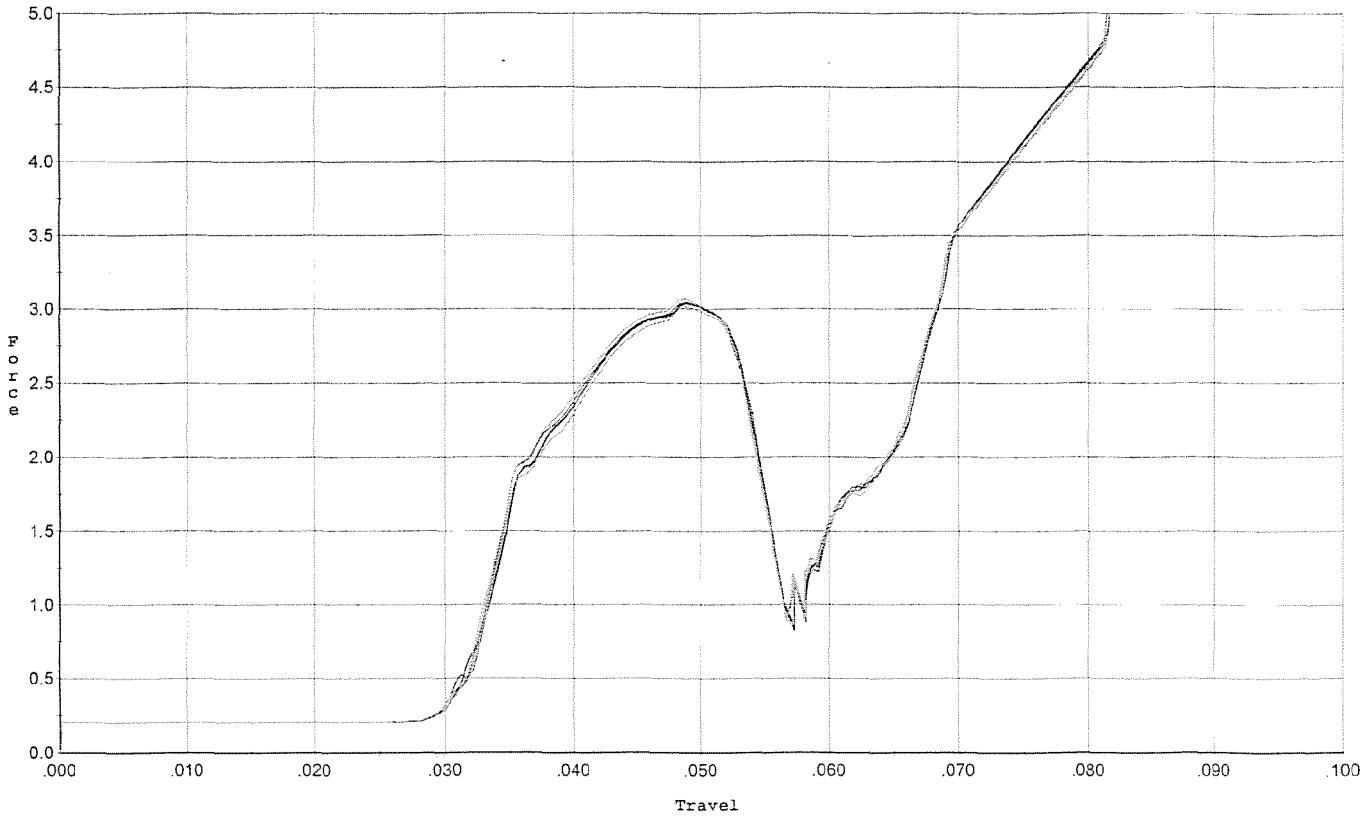
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	3.048	0.057	0.035	0.034	0.061		Set Trigger
2	3.061	0.056	0.034	0.034	0.059		Set Trigger
3	3.100	0.056	0.033	0.034	0.061		Set Trigger
4	3.062	0.056	0.033	0.034	0.060		Set Trigger
5	3.077	0.057	0.033	0.033	0.063		Set Trigger

Avg 3.07

Trigger Profile [lbs,inch]

Profile: SWS
 GunType: Rifle
 Make: Remington
 Note: R. Putch 10/13/07

Model: M/24
 Serial No: Form #F005
 Trigger: 3.0 lbs. after 20 cycles +/- .75 lbs.



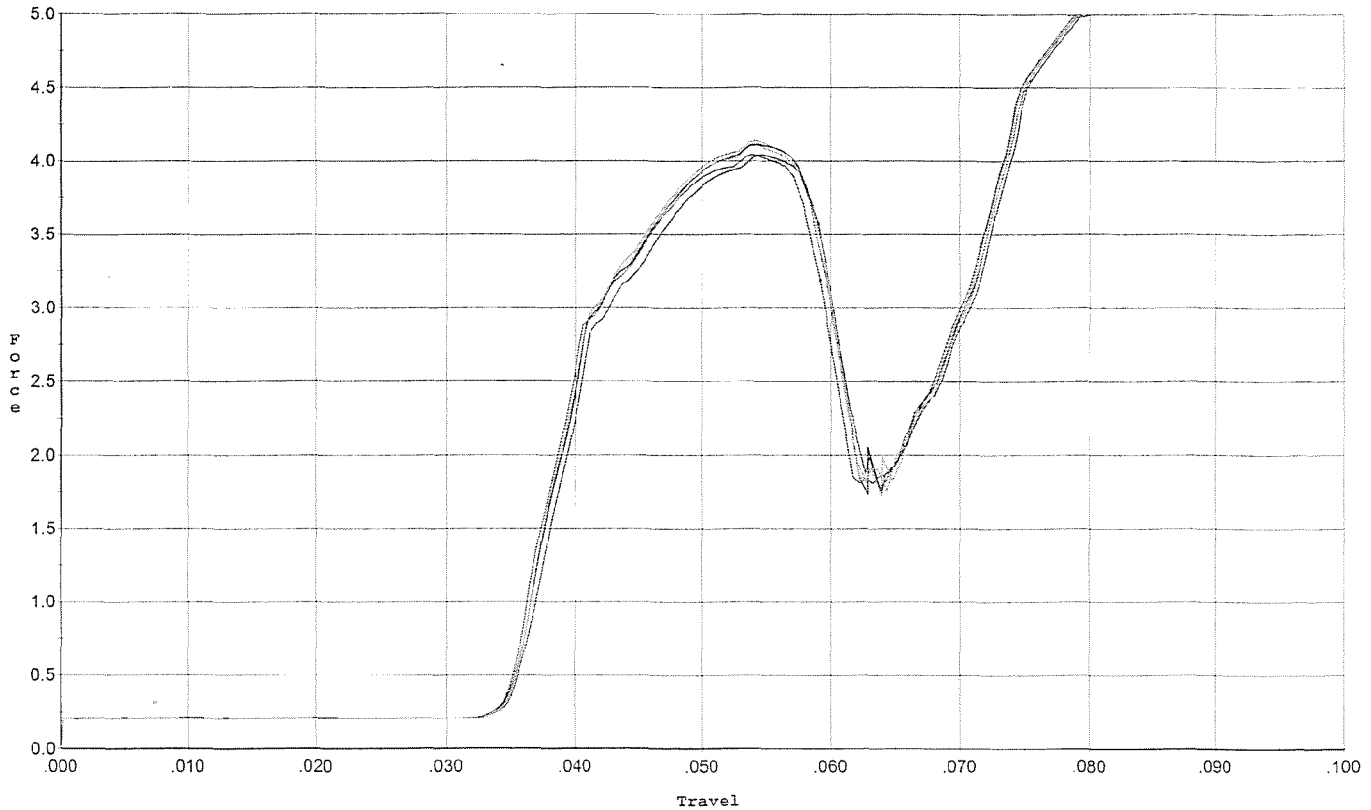
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	3.039	0.053	0.030	0.033	0.060		Set Trigger
2	3.047	0.054	0.030	0.033	0.061		Set Trigger
3	3.043	0.054	0.030	0.033	0.060		Set Trigger
4	3.072	0.053	0.032	0.033	0.060		Set Trigger
5	3.015	0.055	0.030	0.033	0.060		Set Trigger

Avg 3.04

Trigger Profile [lbs,inch]

Profile: SWS
GunType: Rifle
Make: Remington
Note: R. Putch 10/13/07

Model: M/24
Serial No: Form #F005
Trigger: 4.0 lbs. ini. +/- 1.0 lbs.



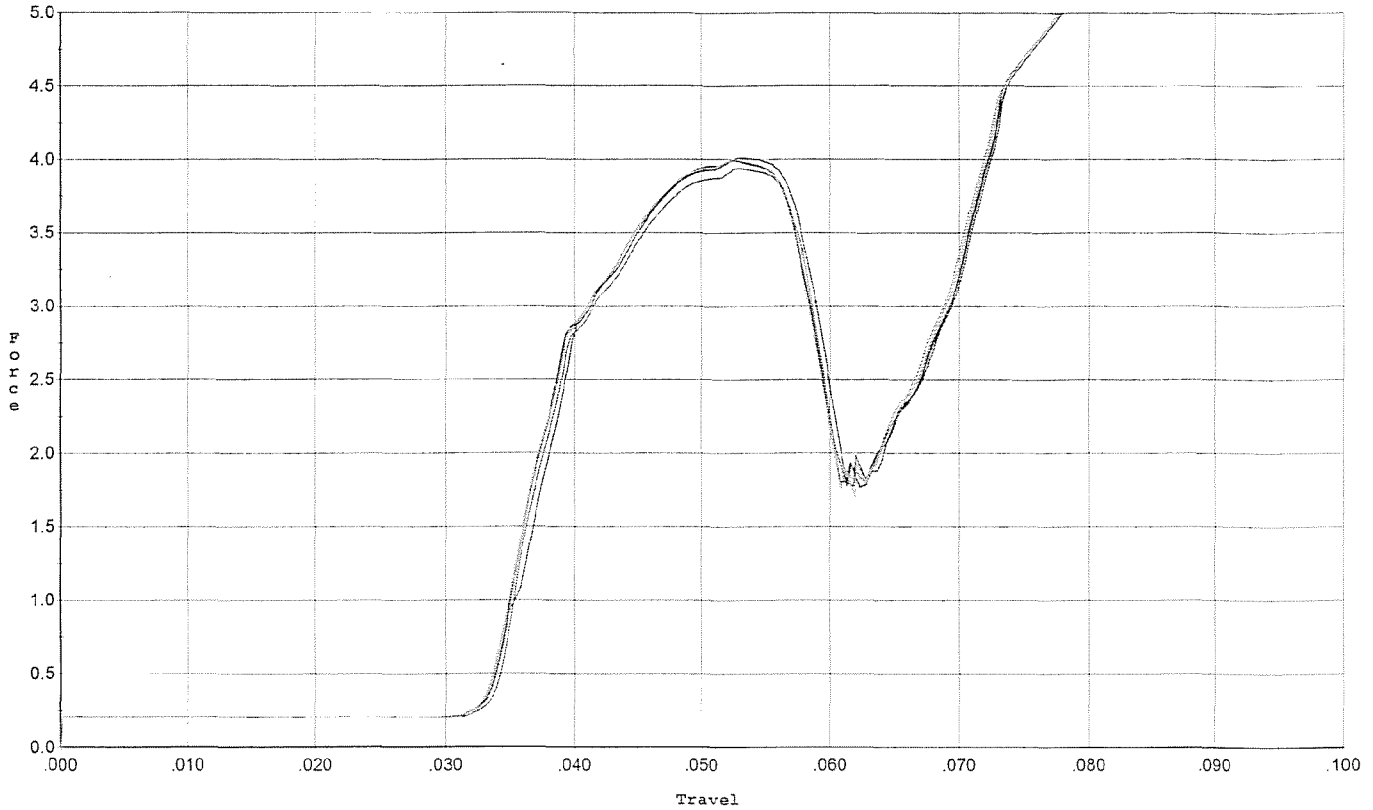
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	4.043	0.059	0.035	0.032	0.085		Set Trigger
2	4.110	0.060	0.035	0.032	0.088		Set Trigger
3	4.046	0.059	0.034	0.032	0.086		Set Trigger
4	4.105	0.060	0.035	0.032	0.088		Set Trigger
5	4.142	0.059	0.035	0.032	0.088		Set Trigger

Avg 4.08

Trigger Profile [lbs,inch]

Profile SWS
GunType: Rifle
Make: Remington
Note: R. Putch 10/13/07

Model: M/24
Serial No: Form #F005
Trigger: 4.0 lbs. after 20 cycles +/- 1.0 lbs.



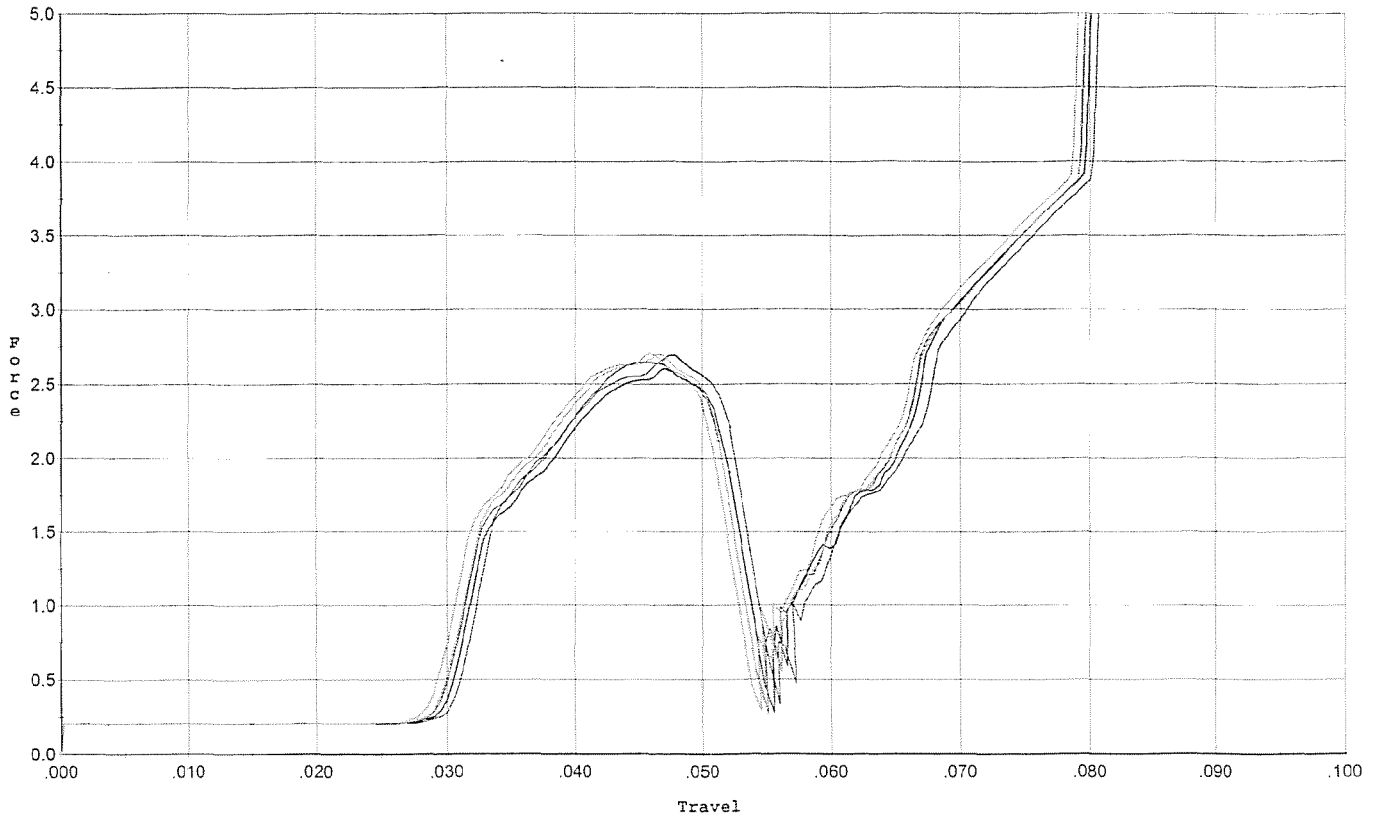
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	4.012	0.059	0.033	0.031	0.087		Set Trigger
2	3.996	0.058	0.033	0.032	0.086		Set Trigger
3	3.940	0.058	0.034	0.032	0.084		Set Trigger
4	3.999	0.058	0.033	0.032	0.086		Set Trigger
5	4.000	0.059	0.033	0.031	0.087		Set Trigger

Avg 3.98

Trigger Profile [lbs,inch]

Profile SWS
GunType: Rifle
Make: Remington
Note: R. Putsch 10/13/07

Model: M/24
Serial No: Form #F005
Trigger: reset to 2.5 lbs. +/- .50 lbs. for final test



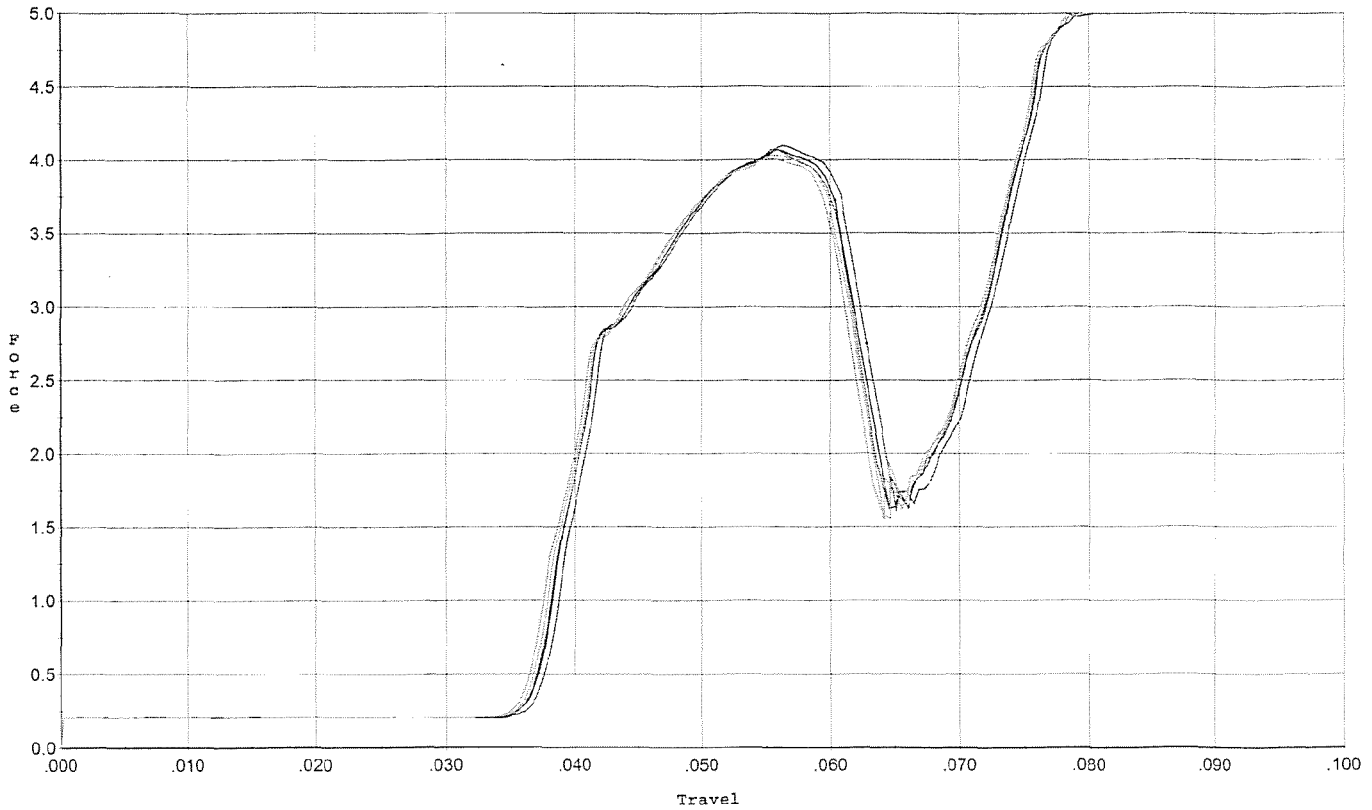
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	2.694	0.052	0.030	0.033	0.053		Set Trigger
2	2.606	0.052	0.030	0.033	0.052		Set Trigger
3	2.644	0.051	0.029	0.033	0.052		Set Trigger
4	2.703	0.051	0.029	0.033	0.053		Set Trigger
5	2.708	0.051	0.029	0.033	0.053		Set Trigger

AVG 2.67

Trigger Profile [lbs,inch]

Profile SWS
GunType: Rifle
Make: Remington
Note: R. Putch 10/13/07

Model: M/24
Serial No: Form #F005
Trigger: set to 4.0 lbs. +/- 1.0 lbs. for target & accuracy



#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	4.098	0.063	0.037	0.031	0.090		Set Trigger
2	4.069	0.060	0.037	0.031	0.086		Set Trigger
3	4.075	0.061	0.036	0.031	0.086		Set Trigger
4	4.029	0.061	0.036	0.031	0.088		Set Trigger
5	4.012	0.060	0.036	0.032	0.086		Set Trigger

Avg 4.05

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6587638.__0
FILE DATE AND TIME: 11/01/2007 21:50

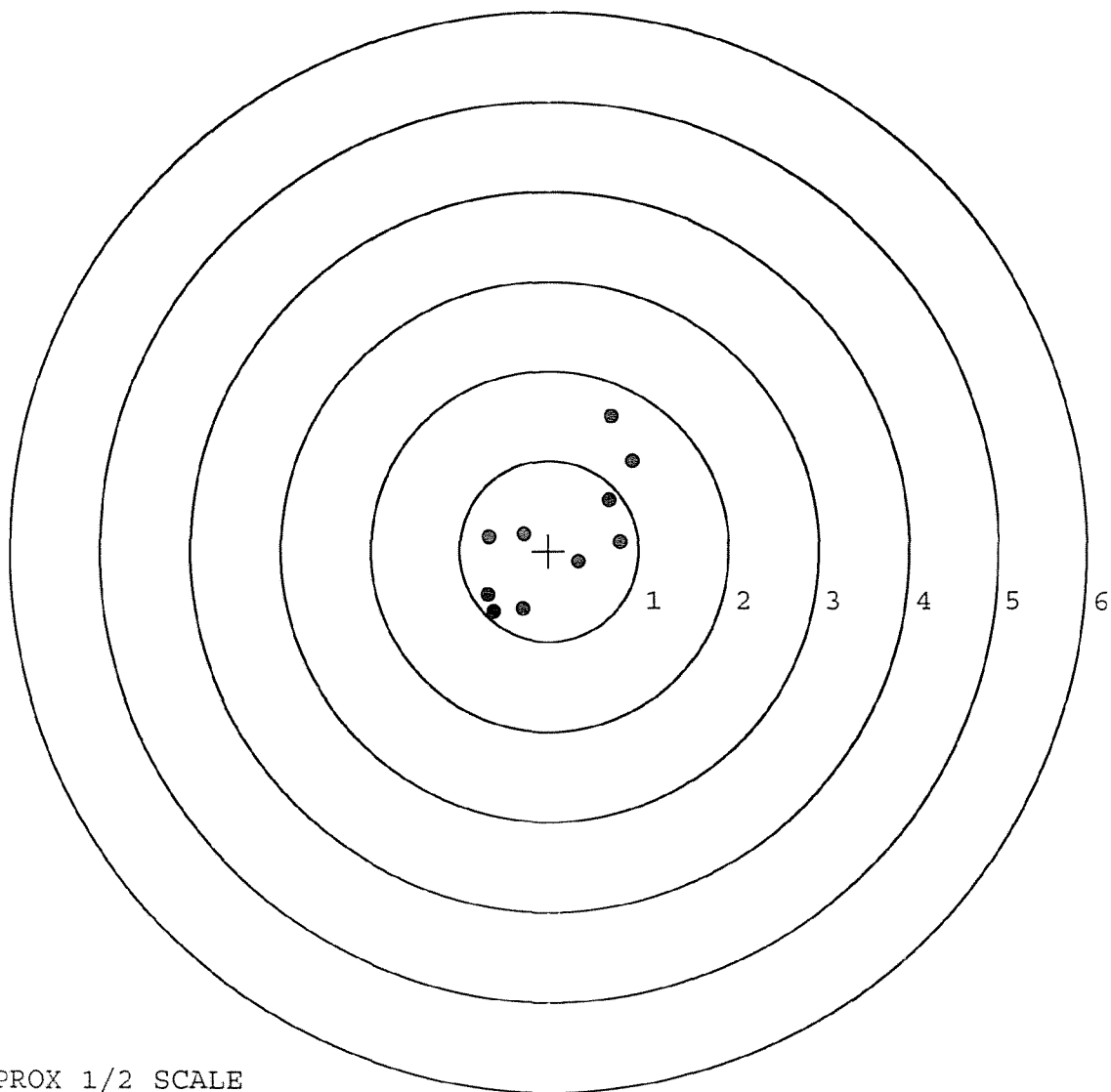
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.002
The Average Y Centroid of the Five Target Set:	-0.066
The Average Point of Impact of the Five Target Set:	0.066
The Average Mean Radius of the Five Target Set:	0.693
The Distance from POA to Centroid Target #1:	0.176
The Distance from Centroid Target #2 to Centroid Target #1:	0.136
The Distance from Centroid Target #3 to Centroid Target #1:	0.690
The Distance from Centroid Target #4 to Centroid Target #1:	0.269
The Distance from Centroid Target #5 to Centroid Target #1:	0.246

SERIAL NUMBER: C6587638.___0
TARGET NUMBER: 1
FILE DATE: 11/01/2007
FILE TIME: 21:50

POINT#	X	Y
1:	-0.674	0.151
2:	-0.283	0.185
3:	-0.684	-0.498
4:	-0.616	-0.683
5:	-0.291	-0.647
6:	0.336	-0.123
7:	0.794	0.100
8:	0.670	0.558
9:	0.933	0.991
10:	0.695	1.490

X CENTROID: 0.088
Y CENTROID: 0.152
POA TO CENTROID: 0.176
HORZ SPREAD: 1.617
VERT SPREAD: 2.173
GROUP SPREAD: 2.538
MIN RADIUS: 0.371
MAX RADIUS: 1.469
MEAN RADIUS: 0.857
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 6
in 3 IN DIAMETER: 10

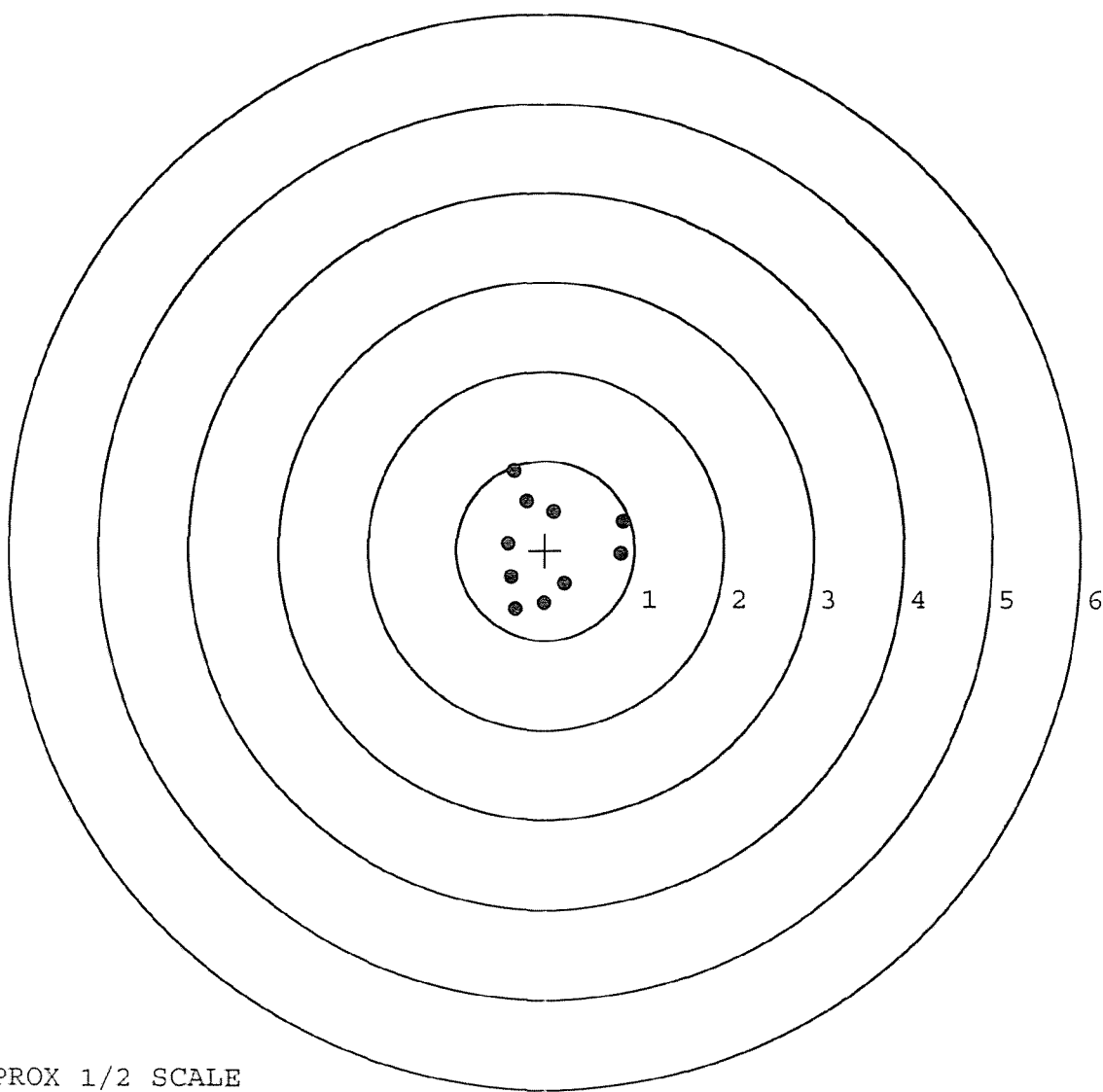


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587638. __0
TARGET NUMBER: 2
FILE DATE: 11/01/2007
FILE TIME: 21:50

POINT#	X	Y
1:	-0.348	0.886
2:	-0.207	0.551
3:	0.098	0.433
4:	-0.418	0.072
5:	-0.385	-0.304
6:	-0.334	-0.662
7:	-0.015	-0.589
8:	0.218	-0.376
9:	0.852	-0.047
10:	0.867	0.320

X CENTROID: 0.033
Y CENTROID: 0.028
POA TO CENTROID: 0.043
HORZ SPREAD: 1.285
VERT SPREAD: 1.548
GROUP SPREAD: 1.548
MIN RADIUS: 0.410
MAX RADIUS: 0.938
MEAN RADIUS: 0.646
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10

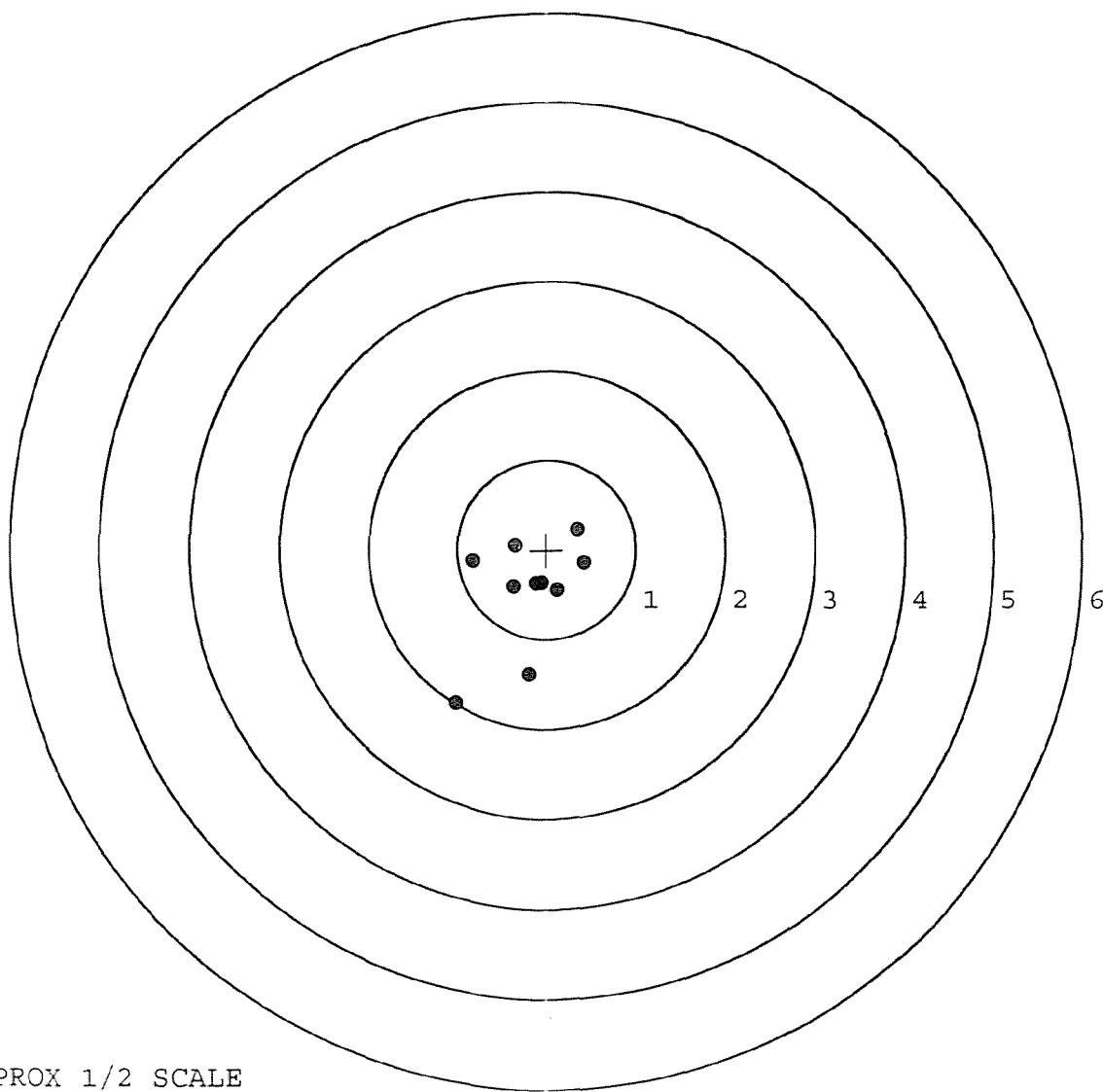


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587638. __0
TARGET NUMBER: 3
FILE DATE: 11/01/2007
FILE TIME: 21:50

POINT#	X	Y
1:	-1.017	-1.722
2:	-0.197	-1.398
3:	0.341	0.221
4:	0.421	-0.146
5:	0.123	-0.451
6:	-0.058	-0.371
7:	-0.368	-0.411
8:	-0.348	0.055
9:	-0.822	-0.122
10:	-0.123	-0.378

X CENTROID: -0.205
Y CENTROID: -0.472
POA TO CENTROID: 0.515
HORZ SPREAD: 1.438
VERT SPREAD: 1.943
GROUP SPREAD: 2.371
MIN RADIUS: 0.125
MAX RADIUS: 1.490
MEAN RADIUS: 0.607
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

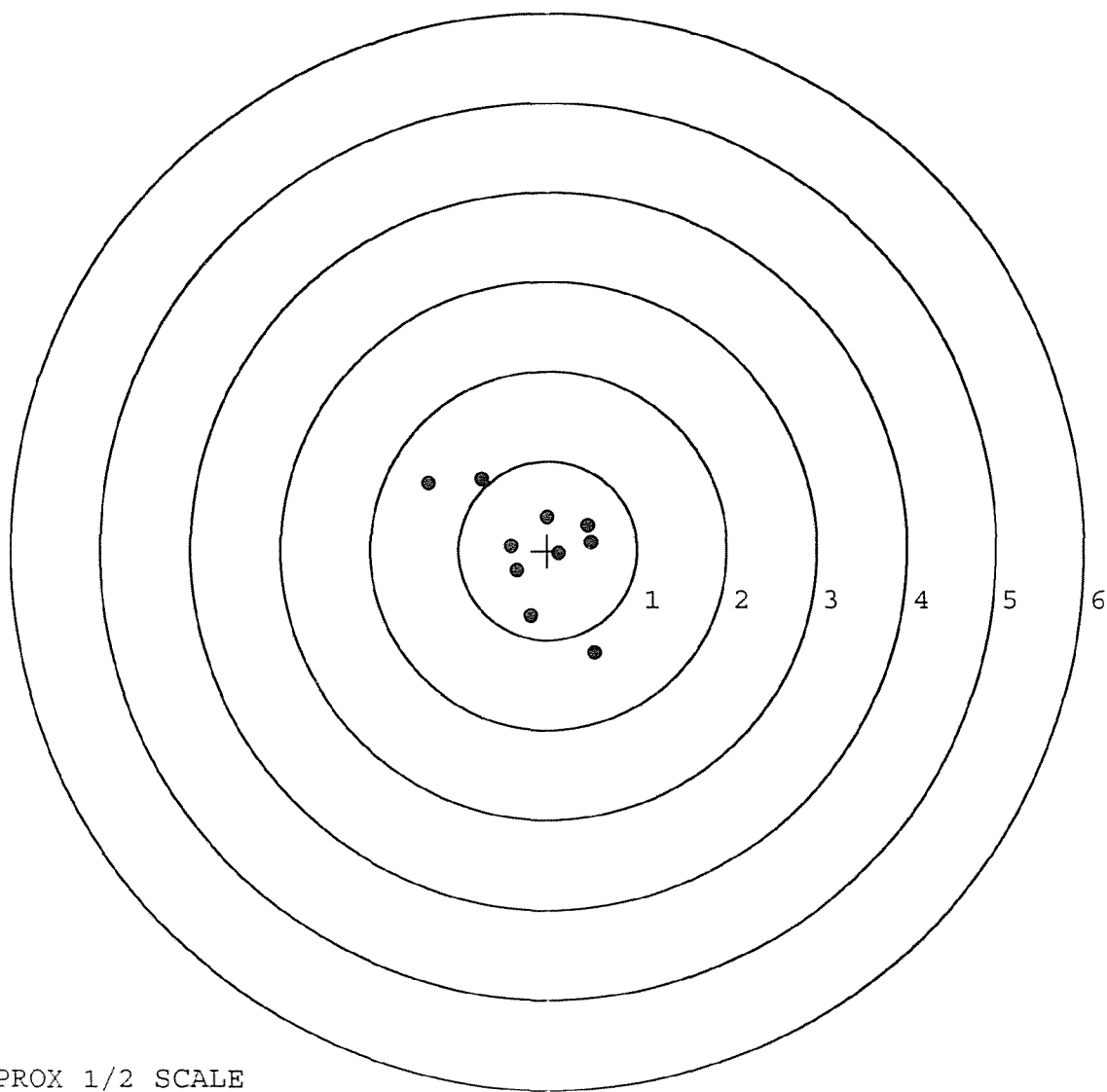


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587638. __0
TARGET NUMBER: 4
FILE DATE: 11/01/2007
FILE TIME: 21:50

POINT#	X	Y
1:	-1.346	0.741
2:	-0.742	0.794
3:	-0.407	0.047
4:	-0.344	-0.233
5:	-0.188	-0.729
6:	0.521	-1.147
7:	0.130	-0.034
8:	0.487	0.090
9:	0.447	0.275
10:	-0.010	0.378

X CENTROID: -0.145
Y CENTROID: 0.018
POA TO CENTROID: 0.146
HORZ SPREAD: 1.867
VERT SPREAD: 1.941
GROUP SPREAD: 2.655
MIN RADIUS: 0.263
MAX RADIUS: 1.402
MEAN RADIUS: 0.700
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587638. __0

TARGET NUMBER: 5

FILE DATE: 11/01/2007

FILE TIME: 21:50

POINT#	X	Y
1:	-0.554	0.003
2:	-0.250	-0.346
3:	0.229	-0.325
4:	0.473	-0.491
5:	-0.209	-0.968
6:	0.433	-0.026
7:	0.897	0.172
8:	1.200	0.117
9:	0.098	0.713
10:	-0.149	0.582

X CENTROID: 0.217

Y CENTROID: -0.057

POA TO CENTROID: 0.224

HORZ SPREAD: 1.754

VERT SPREAD: 1.681

GROUP SPREAD: 1.778

MIN RADIUS: 0.218

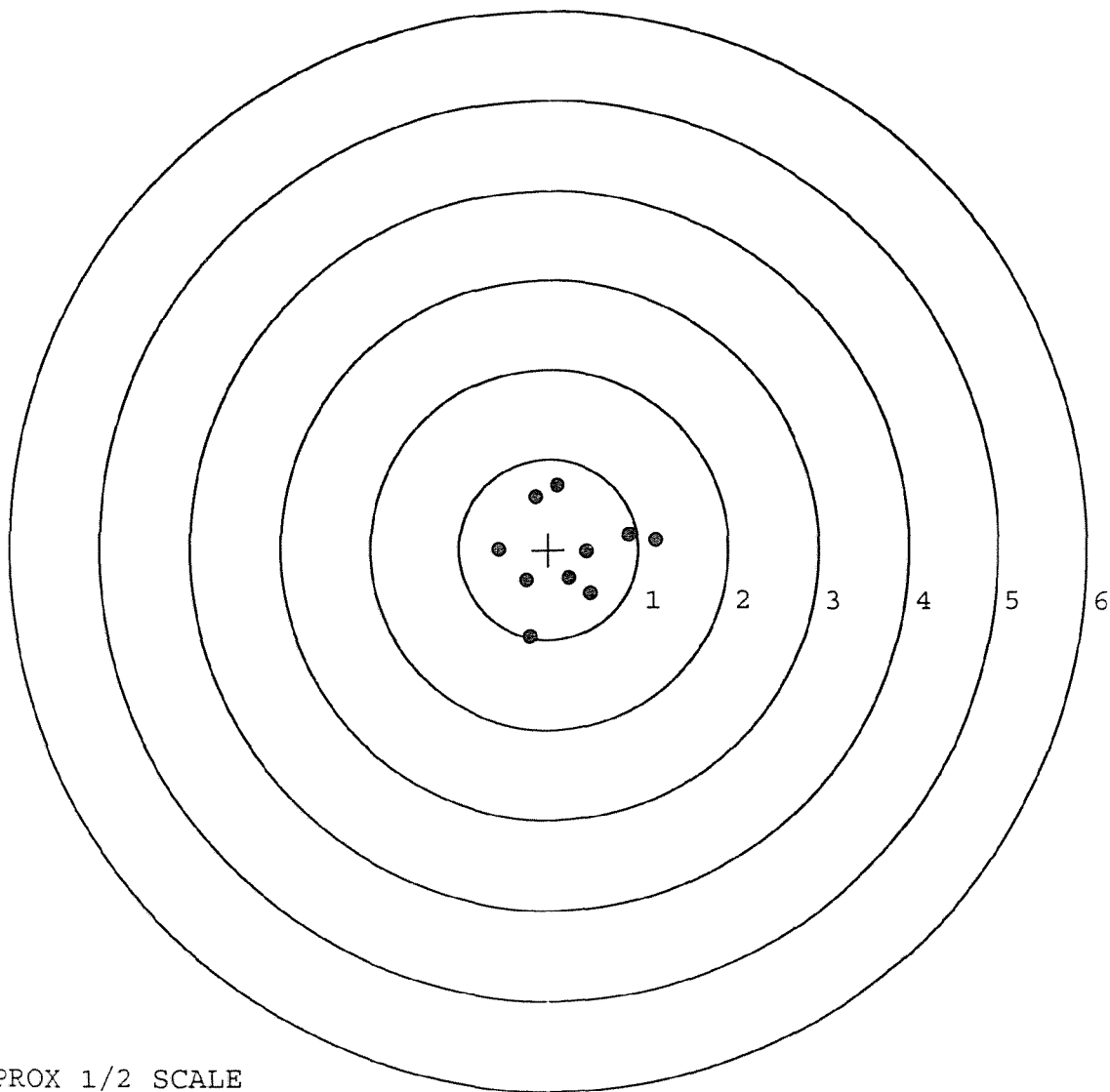
MAX RADIUS: 1.006

MEAN RADIUS: 0.655

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-C-0149

5967

R & E NUMBER		135184	
SERIAL NUMBER		0587638	
LOG-IN DATE		10-16-07	

OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	10-15-07	RTZ
505	RE-BARREL	10-16-07	RTZ
560	ASSEMBLE	10-16-07	RTZ
600	PROOF	10-17-07	TRW
605	CHECK HEADSPACE	10-17-07	TRW
610	DIS-ASSEMBLE GUN	10-17-07	RTZ
612	MAGNAFLUX	10-22-07	JB
510	DRILL AND TAP	10-17-07	TRW
615	ROLLMARK CALIBER	10-18-07	CW
618	ROTO-BLAST	10-22-07	Hy
620	APPLY COATINGS	10-25-07	CM
625	FINAL ASSEMBLY	11-1-07	RTZ
640	FUNCTION TEST AND	PASS FAIL	11/1/07 m
650	TARGET	PASS FAIL	11/1/07 m
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	11-1-07 SD
670	FINAL INSPECTION		11-19-07 RA
	A) HEADSPACE	PASS FAIL	11-19-07 RA
	B) TRIGGER PULL	279 281 280 283 281	11-5-07 RA
680	F) SAFETY ON FORCE	55 55 55	11-5-07 RA
	G) SAFETY OFF FORCE	40 35 35	11-5-07 RA
	I) FIRING PIN INDENT	.023 .023 .023	11-5-07 RA
690	PACK		11-19-07 RA

MAGNA - FLUX

OPERATOR JB

N/A

VERY IMPORTANT: Instruction Book enclosed to assure safe use of this firearm.

Remington®

REG. U.S. PAT. & TM. OFF.

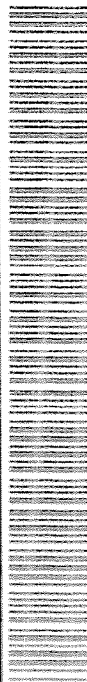
DUPONT

MODEL 700TH H24

MADE IN ILION, N.Y., U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada. Marque Deposee.

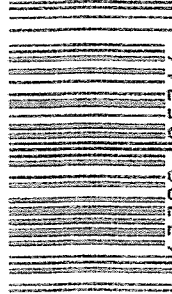
SERIAL NO. C6587608

ORDER NO. 5716



5716 C6587608

LPC



0 47700 25716 7

op. #	OP. NAME	READINGS			DATE	INIT		
625 cont.	F) Safety On Force	5	5	5	11/14/90	WB		
	G) Safety Off Force	2	2	2	11/14/90	WB		
	H) Trigger Pull Test & Retainability				11-14-90	98/		
	I) Firing Pin Indent	.0235	.073	.0235	11/14/90	WB		
	J) Assemble Stock				11/14/90	KS		
	K) Assemble Swivel Studs				11/19/90	98		
	L) Attach Front and Rear Sight Assemblies				11/14/90	KS		
	M) Iron Sight Alignment				11/14/90	KS		
	N) Detach Front & Rear Sights & place in numbered container				11/14/90	KS		
	O) Attach Scope to Rifle				11/14/90	KS		
P) Detach & Attach Scope 20 Times				11/14/90	KS			
640	Gallery Target & Test				11-15-90	KT		
	A) Time				11-15-90	KT		
	B) Malfunctions				11-15-90	KT		
	C) Pierced Primers				11-15-90	KT		
	D) Optical Clarity of Scope				11-15-90	KT		
645	Inspect for Live Ammo				11-15-90	KT		
655	Final Inspection				11/19/90	98		
	A) Headspace				11/19/90	98		
	B) Trigger Pull	248	239	237	239	236	11/19/90	98
	C) Function						11/19/90	98
660	Pack						12-17-90	DH

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6587638

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		10/22/90	KL
600	Proof		10/22/90	KL
607	Check Headspace		10/22/90	KL
610	Dis-assemble Gun		10/22/90	KL
612	Magnaflux Barrel Action		10/24/90	KR
	Magnaflux Bolt		10/24/90	KR
615	Rollmark Caliber		10/24/90	LS
617	Drill and Tap Sight Holes		10/25/90	FB
618	Polish Barrel AB		10/26/90	WB
620	Apply Coatings (Barrel Action)		11-7-90	TH
	Apply Coating (Bolt)			
625	Final Assembly		11/1/90	KS
	A) Clean inside of Bolt Assembly			
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		11/8/90	KS
	C) Inspect Ejector Hole for Chamfer		11/8/90	KS
	D) Oil Firing Pin Ass'y		11/2/90	KS
	E) Adjust Trigger Pull to Min Setting and Stake		11-14-90	JH

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C 6587638

DATE 11-14-90

TESTER JG

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.39	2.47	2.44	2.48	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.43	2.44	2.42	2.39	
PULL #3	2.45	2.30	2.47	2.37	
PULL #4	2.31	2.39	2.37	2.39	
PULL #5	2.46	2.40	2.33	2.36	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.22	3.43		
PULL #2	3.47	3.18		
PULL #3	3.43	3.39		
PULL #4	3.43	3.42		
PULL #5	3.43	3.39		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.42	4.35		4.34
PULL #2	4.38	4.32		4.37
PULL #3	4.37	4.22		4.38
PULL #4	4.09	4.36		4.36
PULL #5	4.36	4.37		4.38
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6587638
15 Nov 1990

CENTROIDAL DISTANCES

0 TO	1	.123179
1 TO	2	.348111
1 TO	3	.093086
1 TO	4	.317057
1 TO	5	.207781

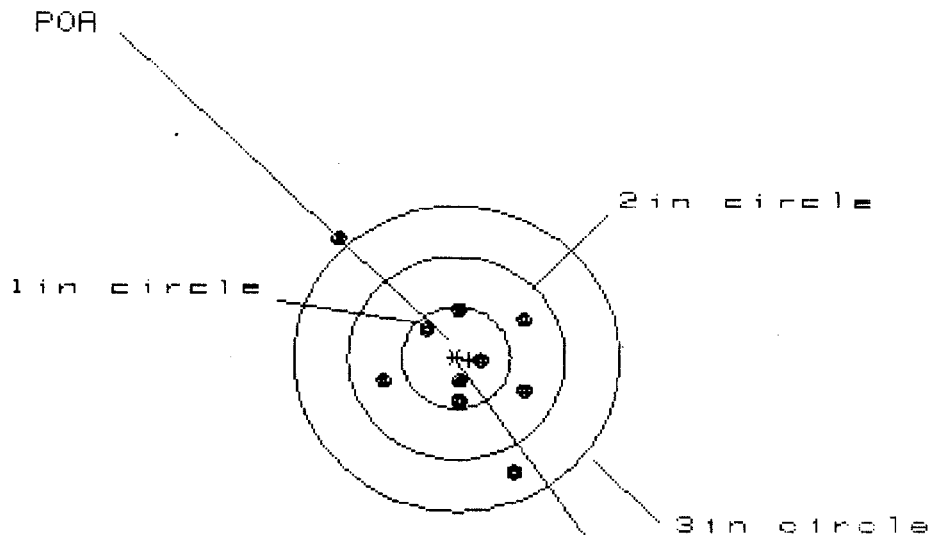
5 <----FOR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0382
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.1304
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .13589
THE AMR FOR THIS RIFLE IS: 1.013

15 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587638

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1 in - 5

2 in - 8

3 in - 9

HS- 1.681

VS- 2.267

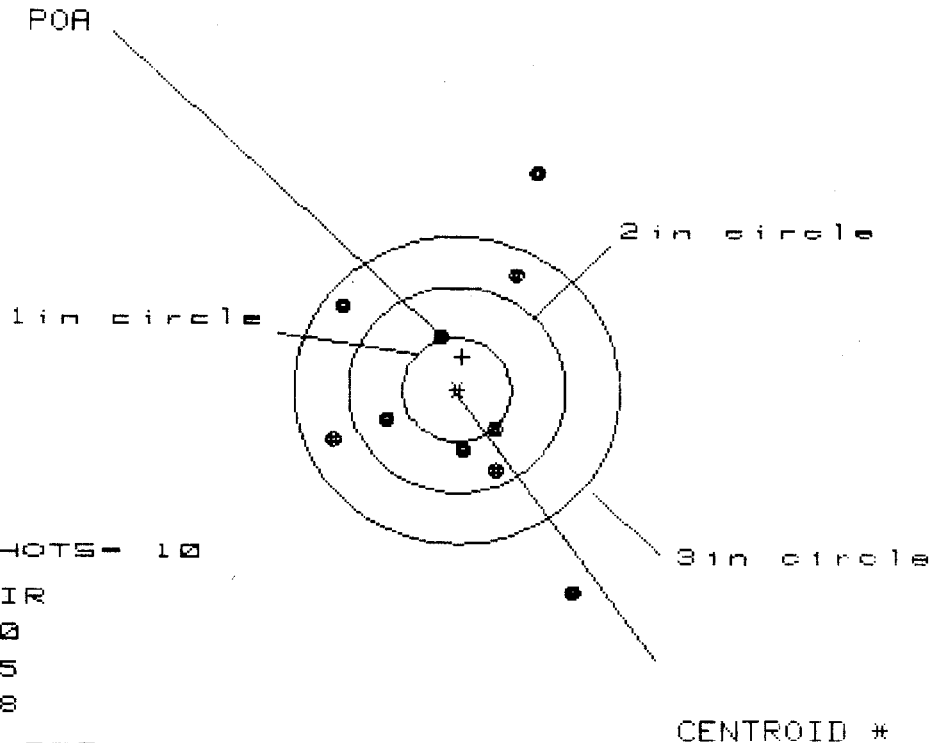
GS- 2.749

PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.617	.499	.546
MINIMUM X	:	-1.064	-.752	-.705
MAXIMUM Y	:	1.180	.606	.486
MINIMUM Y	:	-1.087	-.955	-.423
CENTROID X	:	-.122	-.004	-.051
CENTROID Y	:	.017	-.114	.006
POA TO CENTROID in.	:	.124	.114	.051
MIN RADIUS	:	.203	.124	.182
MEAN RADIUS	:	.661	.534	.471
MAX RADIUS	:	1.589	1.026	.733
HORIZONTAL SPREAD	:	1.681	1.251	1.251
VERTICAL SPREAD	:	2.267	1.561	.909
EXTREME SPREAD	:	2.749	1.638	1.380
NUMBER IN ONE INCH CIRCLE	=		5	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		9	

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CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1in - 0

2in - 5

3in - 8

HS= 2.235

VS= 4.078

GS= 4.090

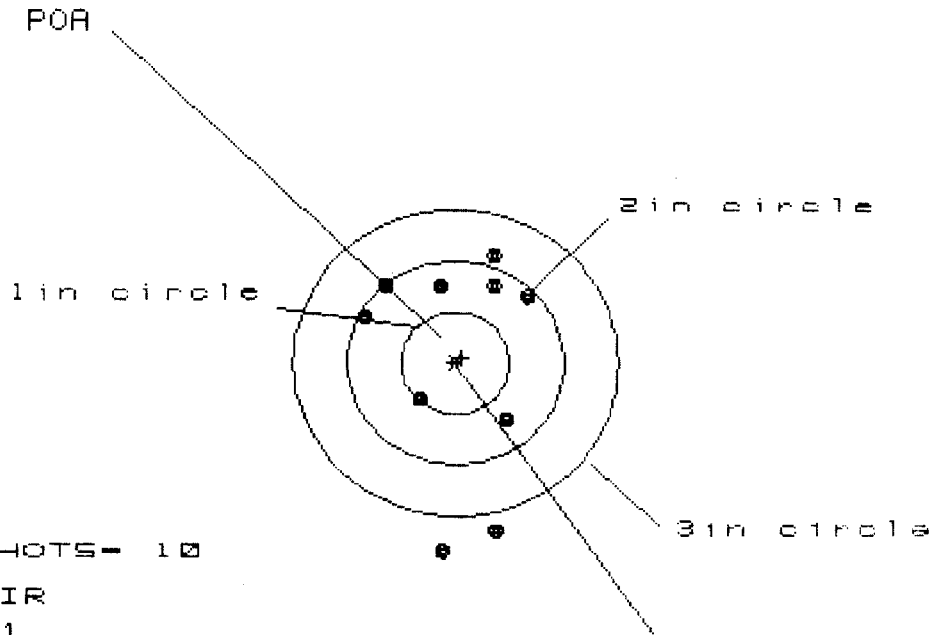
CENTROID #

PATTERN #	2	3	4
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.058	.857	.773
MINIMUM X	-1.177	-1.060	-.953
MAXIMUM Y	2.078	1.856	1.163
MINIMUM Y	-2.000	-1.003	-.771
CENTROID X	-.052	-.169	-.276
CENTROID Y	-.324	-.102	-.334
POA TO CENTROID in.	.328	.197	.433
MIN RADIUS	.506	.262	.493
MEAN RADIUS	1.156	1.034	.869
MAX RADIUS	2.263	2.044	1.397
HORIZONTAL SPREAD	2.235	1.917	1.726
VERTICAL SPREAD	4.078	2.859	1.935
EXTREME SPREAD	4.090	3.205	2.384
NUMBER IN ONE INCH CIRCLE =	0	5	8
NUMBER IN TWO INCH CIRCLE =	5	8	8
NUMBER IN THREE INCH CIRCLE =	8	8	8

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CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 8

HS= 1.489

VS= 2.917

GS= 2.969

CENTROID #

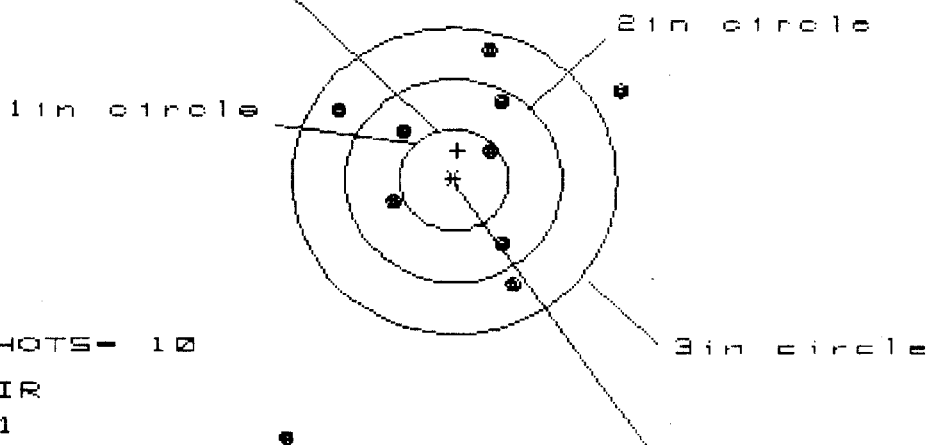
PATTERN #	:	1	2	3
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.633	.613	.658
MINIMUM X	:	-.856	-.876	-.831
MAXIMUM Y	:	1.067	.861	.630
MINIMUM Y	:	-1.850	-1.850	-1.010
CENTROID X	:	-.063	-.043	-.088
CENTROID Y	:	-.055	.151	.382
POA TO CENTROID in.	:	.084	.157	.392
MIN RADIUS	:	.493	.550	.318
MEAN RADIUS	:	1.039	.904	.725
MAX RADIUS	:	1.859	1.884	1.125
HORIZONTAL SPREAD	:	1.489	1.489	1.489
VERTICAL SPREAD	:	2.917	2.711	1.640
EXTREME SPREAD	:	2.969	2.711	1.768
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		8	

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CENTERFIRE PATTERNS # 4

POA



OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 8

HS= 3.075

VS= 3.831

GS= 4.623

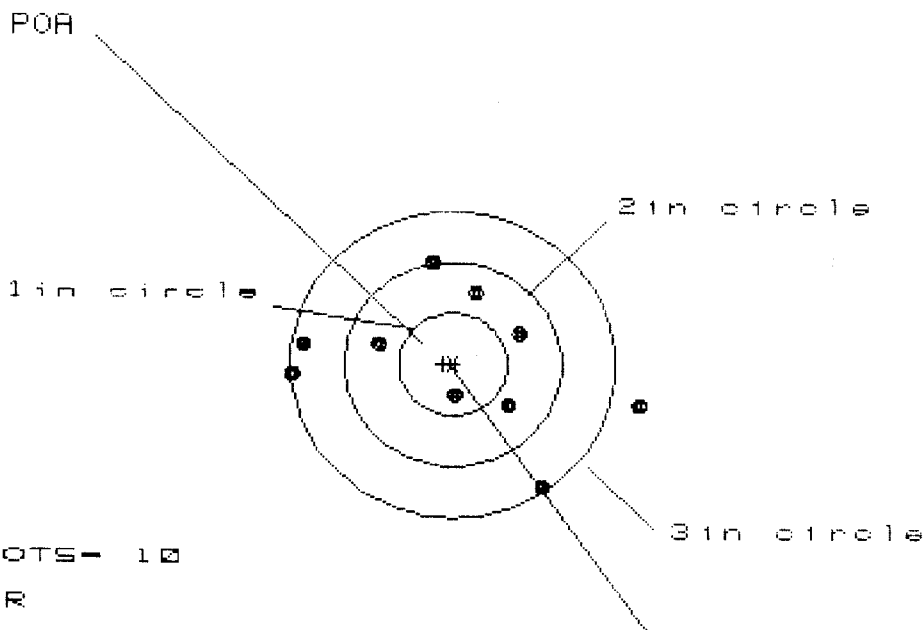
CENTROID *

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.546	1.376	.516
MINIMUM X	:	-1.529	-1.201	-1.029
MAXIMUM Y	:	1.308	1.028	1.109
MINIMUM Y	:	-2.523	-1.325	-1.244
CENTROID X	:	-.039	.131	-.041
CENTROID Y	:	-.289	-.009	-.090
POA TO CENTROID in.	:	.291	.131	.099
MIN RADIUS	:	.420	.171	.343
MEAN RADIUS	:	1.189	.941	.866
MAX RADIUS	:	2.950	1.521	1.347
HORIZONTAL SPREAD	:	3.075	2.577	1.545
VERTICAL SPREAD	:	3.831	2.353	2.353
EXTREME SPREAD	:	4.623	2.589	2.361
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		8	

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CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1in - 1

2in - 5

3in - 8

HS- 3.221

VS- 2.277

GS- 3.240

CENTROID #

PATTERN #	5	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.708	1.002	.837
MINIMUM X	-1.513	-1.324	-1.366
MAXIMUM Y	1.046	.997	.979
MINIMUM Y	-1.231	-1.280	-1.297
CENTROID X	.085	-.104	.061
CENTROID Y	-.001	.048	.060
POA TO CENTROID in.	.085	.115	.090
MIN RADIUS	.290	.403	.360
MEAN RADIUS	1.020	.935	.864
MAX RADIUS	1.764	1.626	1.544
HORIZONTAL SPREAD	3.221	2.326	2.203
VERTICAL SPREAD	2.277	2.277	2.277
EXTREME SPREAD	3.240	2.633	2.633
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	8		