

06587502

MODEL 700™ M24

Model SMS™

Action

Barrel Length

Capacity

Order No. 5715

*Includes 1 in chamber.

Remington

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6587602.___0

FILE DATE AND TIME: 10/06/2004 10:59

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.037
The Average Y Centroid of the Five Target Set:	-0.094
The Average Point of Impact of the Five Target Set:	0.101
The Average Mean Radius of the Five Target Set:	0.619
The Distance from POA to Centroid Target #1:	0.063
The Distance from Centroid Target #2 to Centroid Target #1:	0.156
The Distance from Centroid Target #3 to Centroid Target #1:	0.187
The Distance from Centroid Target #4 to Centroid Target #1:	0.194
The Distance from Centroid Target #5 to Centroid Target #1:	0.234

SERIAL NUMBER: C6587602. __0

TARGET NUMBER: 1

FILE DATE: 10/06/2004

FILE TIME: 10:59

X CENTROID: 0.061

Y CENTROID: 0.016

POA TO CENTROID: 0.063

HORZ SPREAD: 0.929

VERT SPREAD: 3.143

GROUP SPREAD: 3.147

MIN RADIUS: 0.186

MAX RADIUS: 1.688

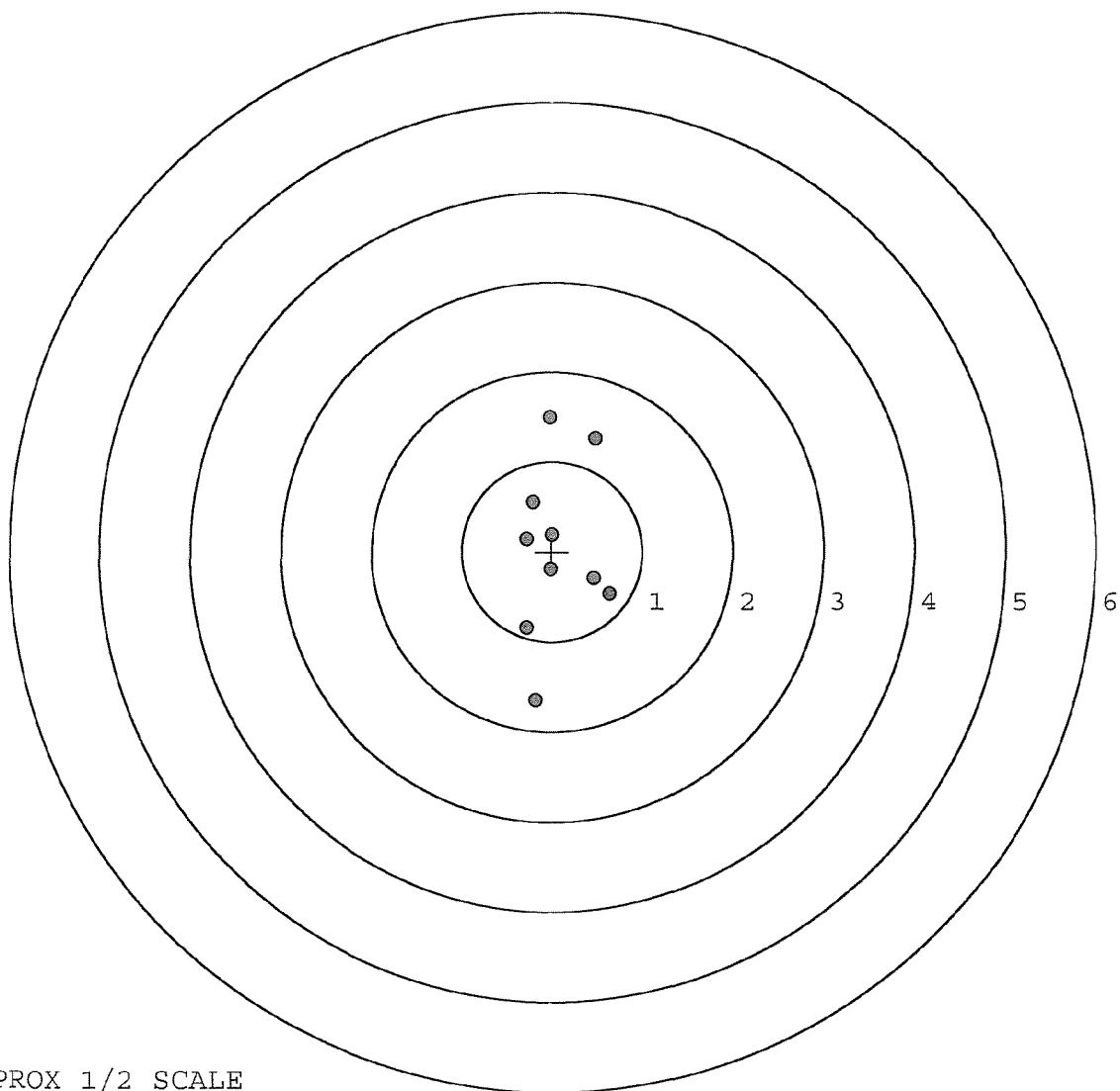
MEAN RADIUS: 0.806

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 7

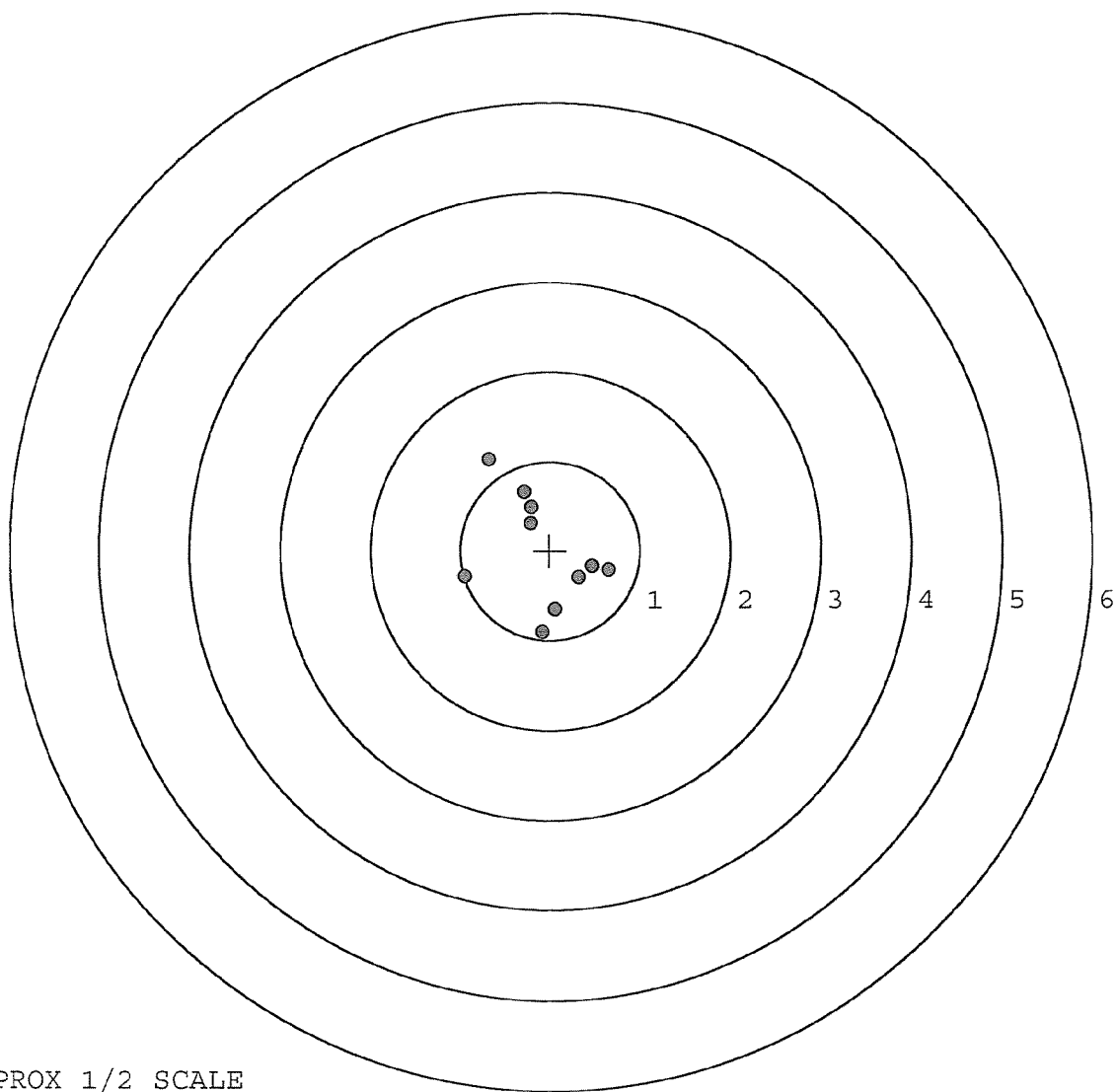
in 3 IN DIAMETER: 9

POINT#	X	Y
1:	-0.175	-1.656
2:	-0.278	-0.848
3:	0.644	-0.473
4:	0.473	-0.295
5:	-0.016	-0.198
6:	0.004	0.193
7:	-0.213	0.547
8:	0.482	1.257
9:	-0.025	1.487
10:	-0.285	0.141



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587602. 0	POINT#	X	Y
TARGET NUMBER: 2	1:	0.649	-0.219
FILE DATE: 10/06/2004	2:	0.473	-0.179
FILE TIME: 10:59	3:	0.326	-0.304
	4:	0.065	-0.663
X CENTROID: -0.093	5:	-0.086	-0.917
Y CENTROID: -0.009	6:	-0.953	-0.300
POA TO CENTROID: 0.093	7:	-0.219	0.309
HORZ SPREAD: 1.602	8:	-0.208	0.489
VERT SPREAD: 1.943	9:	-0.291	0.666
GROUP SPREAD: 2.033	10:	-0.684	1.026
MIN RADIUS: 0.342			
MAX RADIUS: 1.192			
MEAN RADIUS: 0.711			
# IN 1 IN DIAMETER: 1			
# IN 2 IN DIAMETER: 9			
# in 3 IN DIAMETER: 10			



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587602. 0

TARGET NUMBER: 3

FILE DATE: 10/06/2004

FILE TIME: 10:59

X CENTROID: 0.145

Y CENTROID: -0.151

POA TO CENTROID: 0.210

HORZ SPREAD: 1.504

VERT SPREAD: 1.411

GROUP SPREAD: 1.748

MIN RADIUS: 0.279

MAX RADIUS: 1.064

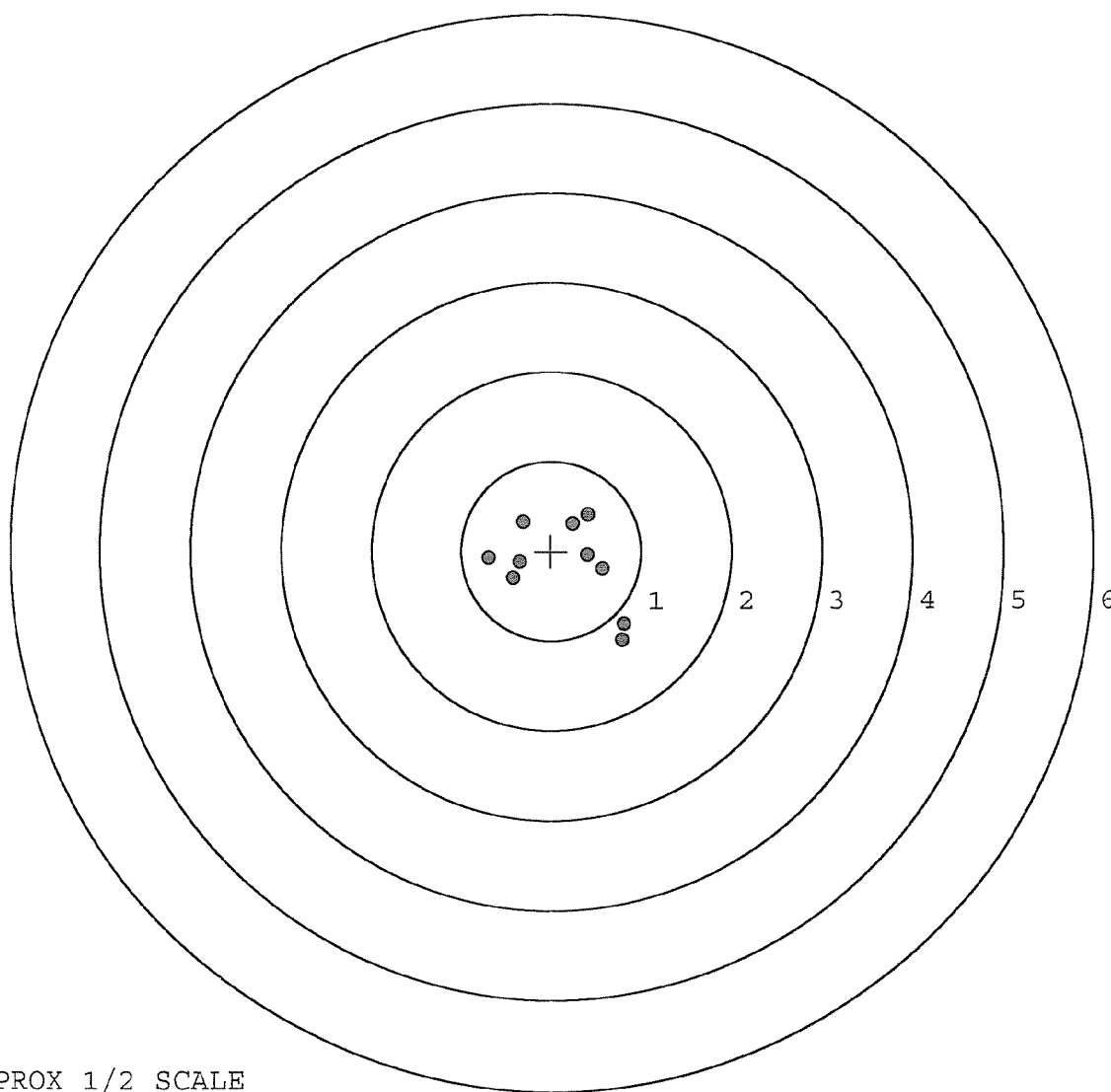
MEAN RADIUS: 0.639

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.790	-0.998
2:	0.810	-0.818
3:	0.570	-0.198
4:	0.404	-0.045
5:	0.412	0.413
6:	0.243	0.307
7:	-0.309	0.331
8:	-0.349	-0.126
9:	-0.423	-0.302
10:	-0.694	-0.074



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587602. __0

TARGET NUMBER: 4

FILE DATE: 10/06/2004

FILE TIME: 10:59

X CENTROID: -0.076

Y CENTROID: -0.122

POA TO CENTROID: 0.144

HORZ SPREAD: 0.835

VERT SPREAD: 1.104

GROUP SPREAD: 1.125

MIN RADIUS: 0.183

MAX RADIUS: 0.639

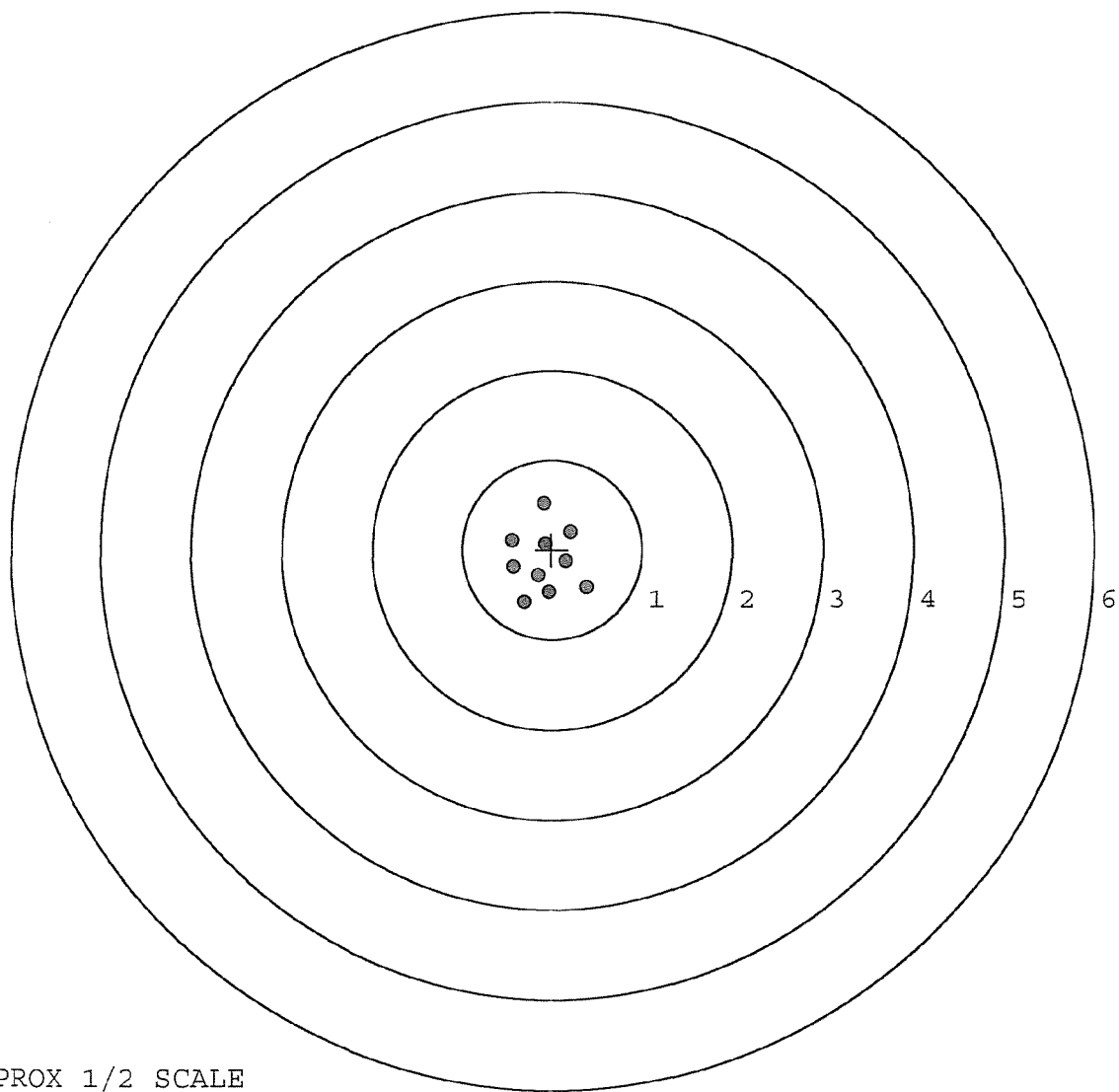
MEAN RADIUS: 0.390

IN 1 IN DIAMETER: 7

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10

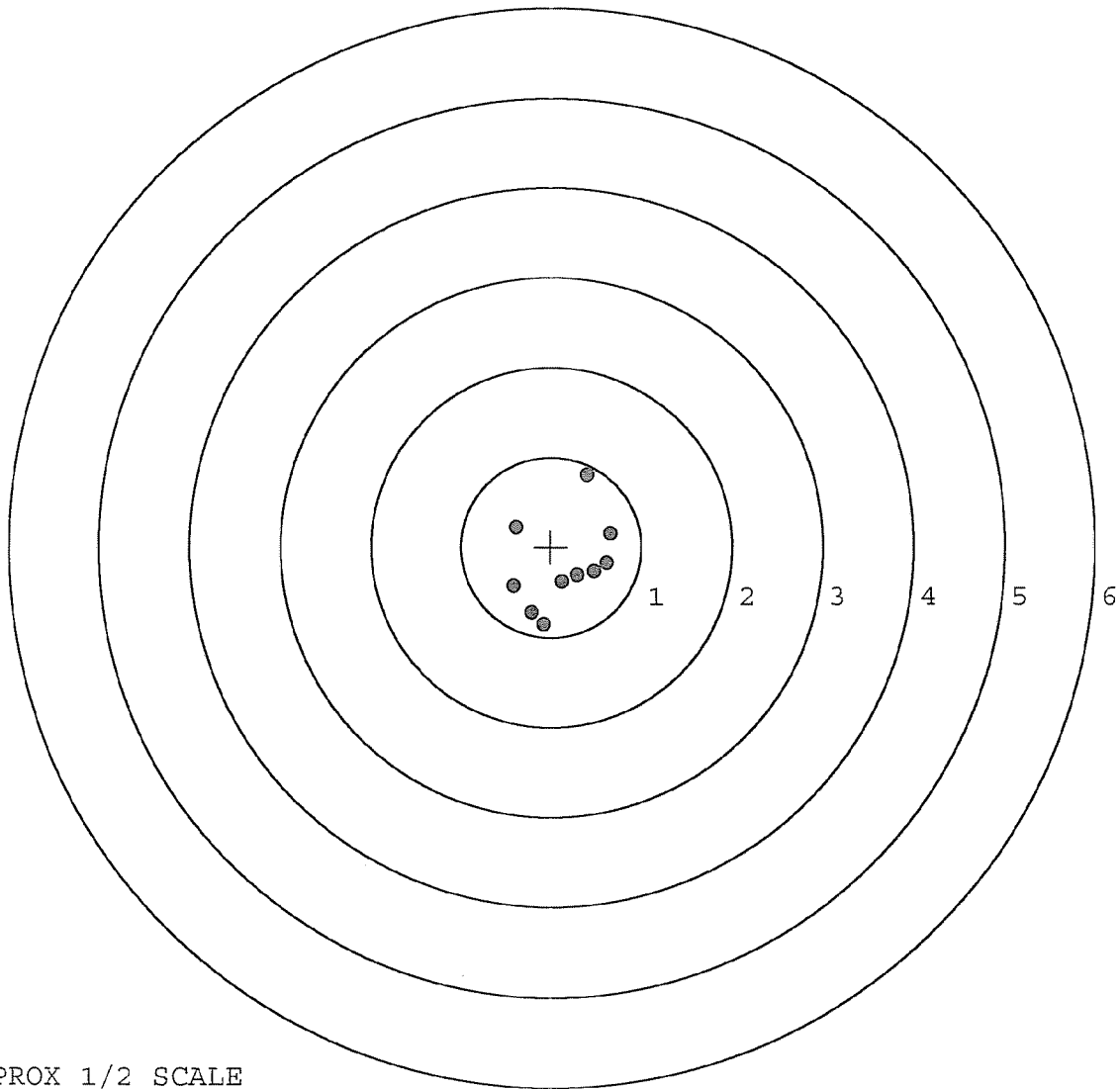
POINT#	X	Y
1:	0.391	-0.426
2:	-0.027	-0.479
3:	-0.302	-0.587
4:	-0.444	0.104
5:	-0.424	-0.196
6:	0.208	0.199
7:	-0.078	0.063
8:	-0.088	0.517
9:	0.161	-0.129
10:	-0.153	-0.288



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587602. 0
TARGET NUMBER: 5
FILE DATE: 10/06/2004
FILE TIME: 10:59

	POINT#	X	Y
	1:	-0.080	-0.863
	2:	-0.216	-0.730
	3:	-0.417	-0.438
	4:	0.122	-0.391
X CENTROID:	5:	0.290	-0.315
Y CENTROID:	6:	0.479	-0.279
POA TO CENTROID:	7:	0.616	-0.185
HORZ SPREAD:	8:	0.656	0.153
VERT SPREAD:	9:	0.399	0.803
GROUP SPREAD:	10:	-0.391	0.216
MIN RADIUS:		0.183	
MAX RADIUS:		1.037	
MEAN RADIUS:		0.547	
# IN 1 IN DIAMETER:		4	
# IN 2 IN DIAMETER:		9	
# in 3 IN DIAMETER:		10	



TARGET APPROX 1/2 SCALE

AVERAGE PULL FORCE BETWEEN

SERIAL NO.

INITIAL & CYCLE TESTS

2.50 LBS (plus or minus 0.50 LBS)

DATE 6-21-04

3.00 LBS (plus or minus 0.75 LBS)

TESTER TRW

4.00 LBS (plus or minus 1.00 LBS)

	2.50 LBS INITIAL	2.50 LBS AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50 LBS		COMMENTS
PULL #1	2.32	2.43		2.49	
PULL #2	2.48	2.54		2.49	
PULL #3	2.50	2.64		2.46	
PULL #4	2.53	2.54		2.52	
PULL #5	2.55	2.56		2.55	
TOTAL	12.38	12.71		12.51	
AVERAGE	2.47	2.54		2.50	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES		COMMENTS
PULL #1	3.32	3.37		
PULL #2	3.40	3.43		
PULL #3	3.44	3.57		
PULL #4	3.28	3.49		
PULL #5	3.61	3.55		
TOTAL	17.05	17.41		
AVERAGE	3.41	3.48		

	4.00 LBS INITIAL	4.00 LBS AFTER 20 CYCLES	MAX SETTING GREATER THAN 4 LBS	RESET TO 4 LBS FOR TARGET & ACCURACY
PULL #1	4.10	4.24		4.13
PULL #2	4.40	4.16		4.26
PULL #3	4.38	4.12		4.19
PULL #4	4.48	4.13		4.19
PULL #5	4.44	4.19		4.23
TOTAL	21.80	20.84		21.00
AVERAGE	4.36	4.16		4.20

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-D-0127

R & E NUMBER	84765		
SERIAL NUMBER	C6587602		
LOG-IN DATE	9-10-04		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	9-13-04	RTL
560 A	RE-BARREL	9-22-04	RTL
B	DRILL AND TAP	9-22-04	TRW
575	ASSEMBLE	9-22-04	RTL
600	PROOF	9-23-04	RTL
605	CHECK HEADSPACE	9-23-04	RTL
610	DIS-ASSEMBLE GUN	9-23-04	RTL
612	MAGNAFLUX		SEP 23 2004
615	ROLLMARK CALIBER	9/24	B BS
618	ROTO-BLAST	9/27	OPERATOR S.S.
620	APPLY COATINGS	9/28	HP
625 A	FINAL ASSEMBLY	10-4-04	RTL
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE		
D	SAFETY "OFF" FORCE		
E	FIRING PIN INDENT		
640	TARGET	10-6-04 Q2200	TRW TRW
655	FINAL INSPECT	10-4-04	RTL
660	PACK	10-26-04	DA
		SHIP DATE	
	QAR INSPECTION DATE		




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

MODEL 700™

01

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

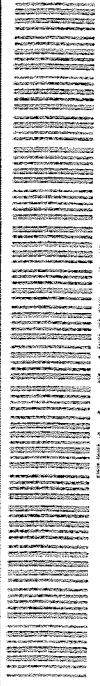
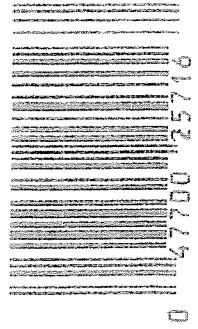
SERIAL NO.

06587602

ORDER NO.

5716

LPC



CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C 6587602

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		10/22/90	KJ
600	Proof		10/22/90	KJ
607	Check Headspace		10/22/90	KJ
610	Dis-assemble Gun		10/22/90	KJ
612	Magnaflux Barrel Action		10/24/90	KR
	Magnaflux Bolt		11	KR
615	Rollmark Caliber		11	JLB
617	Drill and Tap Sight Holes		10/25/90	KJB
618	Polish Barrel RJB		10/26/90	WJB
620	Apply Coatings (Barrel Action)		11-7-90	TJA
	Apply Coating (Bolt)			
625	Final Assembly		11/7/90	KS
	A) Clean inside of Bolt Assembly			
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		11/7/90	KS
	C) Inspect Ejector Hole for Chamfer		11/7/90	KS
	D) Oil Firing Pin Ass'y		11/7/90	KS
	E) Adjust Trigger Pull to Min Setting and Stake		11-28-90	JH

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	5	5			11/28/90	WLB
	G) Safety Off Force	2 3/4	2 3/4	2 3/4			11/28/90	WLB
	H) Trigger Pull Test & Retainability						11/28/90	JH
	I) Firing Pin Indent	.0205	.020	.0205			11/28/90	WLB
	J) Assemble Stock						12/1/90	KS
	K) Assemble Swivel Studs						12-4-90	JS
	L) Attach Front and Rear Sight Assemblies						12/1/90	KS
	M) Iron Sight Alignment						12/1/90	KS
	N) Detach Front & Rear Sights & place in numbered container						12/1/90	KS
	O) Attach Scope to Rifle						12/1/90	KS
	P) Detach & Attach Scope 20 Times						12/1/90	KS
640	Gallery Target & Test						12/1-90	JS
	A) Time						"	JS
	B) Malfunctions						"	JS
	C) Pierced Primers						"	JS
	D) Optical Clarity of Scope						"	JS
645	Inspect for Live Ammo						12/1-90	JS
655	Final Inspection							
	A) Headspace						12-4-90	JS
	B) Trigger Pull	214	210	209	201	210	12-4-90	JS
	C) Function						12-4-90	JS
660	Pack						12/18/90	JS

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS
2.50#+ .50#
3.00#+ .75#
4.00#+1.00#

SERIAL NO. C6587602

DATE 11-28-90

TESTER JH

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.21	2.47	2.40	2.16	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.25	2.34	2.32	2.10	
PULL #3	2.28	2.30	2.35	2.09	
PULL #4	2.50	2.39	2.24	2.01	
PULL #5	2.44	2.28	2.42	2.10	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.31	3.22		
PULL #2	3.32	3.19		
PULL #3	3.31	3.45		
PULL #4	3.34	3.18		
PULL #5	3.33	3.50		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.41	4.32		4.25
PULL #2	4.50	4.18		4.21
PULL #3	4.37	4.20		4.26
PULL #4	4.42	4.15		4.16
PULL #5	4.29	4.25		4.22
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6587602
4 Dec 1990

CENTROIDAL DISTANCES

0 TO	1	.220493
1 TO	2	.223987
1 TO	3	.173416
1 TO	4	.181135
1 TO	5	.233636

13 < ---POA

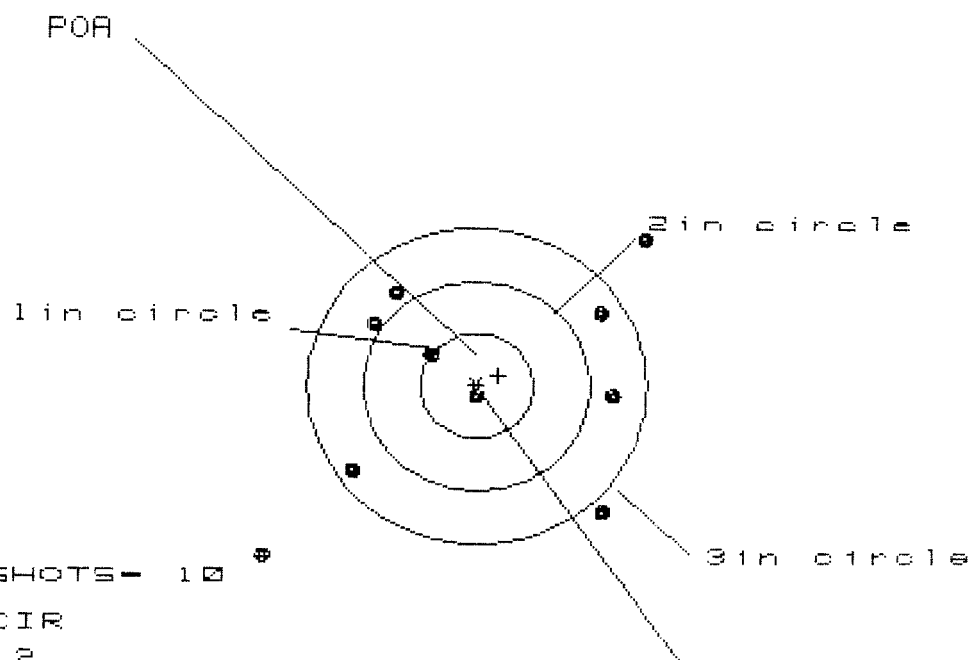
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0426
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0726
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0841755

THE AMR FOR THIS RIFLE IS: 1.181

4 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587682

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1 in - 2

2 in - 2

3 in = 7

HS= 3.391

VS= 3.004

CS= 4.530

CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.518	1.310	1.117
MINIMUM X	-1.873	-1.264	-1.100
MAXIMUM Y	1.373	1.192	.870
MINIMUM Y	-1.631	-1.333	-1.184
CENTROID X	-.196	.013	-.151
CENTROID Y	-.101	.080	-.069
POA TO CENTROID in.	.220	.081	.166
MIN RADIUS	.136	.365	.167
MEAN RADIUS	1.275	1.147	1.032
MAX RADIUS	2.483	1.772	1.605
HORIZONTAL SPREAD	3.391	2.574	2.217
VERTICAL SPREAD	3.004	2.525	2.054
EXTREME SPREAD	4.530	3.351	2.725
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	2		
NUMBER IN THREE INCH CIRCLE =	7		

4 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587602

CENTERFIRE PATTERNS # 2

POA

1 in circle

2 in circle

3 in circle

OF SHOTS- 10

IN CIR

1 in - 1

2 in - 4

3 in = 7

HS= 4.178

VS= 2.230

GS= 4.200

CENTROID #

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	2.178	1.072	.853
MINIMUM X	:	-2.001	-1.759	-1.470
MAXIMUM Y	:	1.232	1.174	1.165
MINIMUM Y	:	-.999	-1.056	-1.065
CENTROID X	:	.023	-.218	.001
CENTROID Y	:	-.054	.004	.013
POA TO CENTROID in.	:	.058	.218	.013
MIN RADIUS	:	.294	.352	.231
MEAN RADIUS	:	1.239	1.145	1.014
MAX RADIUS	:	2.238	1.760	1.815
HORIZONTAL SPREAD	:	4.178	2.831	2.323
VERTICAL SPREAD	:	2.230	2.230	2.230
EXTREME SPREAD	:	4.200	2.923	2.923
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		7	

4 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587682

CENTERFIRE PATTERNS # 3

POA

1 in circle

2 in circle

3 in circle

CENTROID #

OF SHOTS- 10

IN CIR

1 in = 2

2 in = 4

3 in = 8

HS= 2.422

VS= 2.925

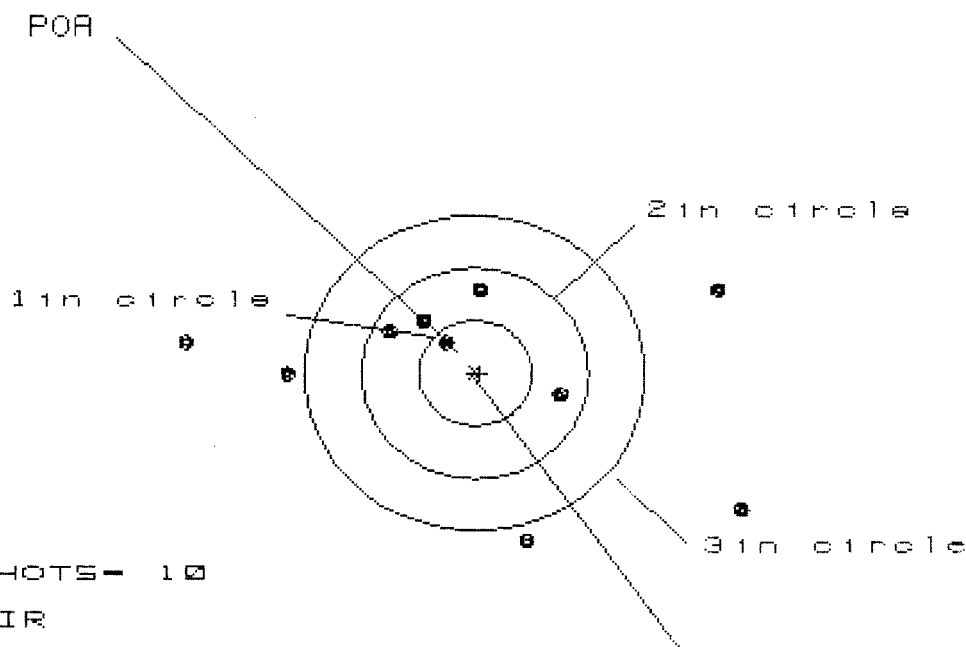
GS= 3.020

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.043	1.039	1.128
MINIMUM X	:	-1.379	-1.383	-1.294
MAXIMUM Y	:	1.369	1.196	.911
MINIMUM Y	:	-1.556	-.669	-.520
CENTROID X	:	-.028	-.024	-.113
CENTROID Y	:	-.144	.029	-.120
POA TO CENTROID in.	:	.146	.038	.165
MIN RADIUS	:	.284	.456	.306
MEAN RADIUS	:	1.004	.947	.870
MAX RADIUS	:	1.557	1.412	1.301
HORIZONTAL SPREAD	:	2.422	2.422	2.422
VERTICAL SPREAD	:	2.925	1.865	1.431
EXTREME SPREAD	:	3.020	2.566	2.445
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		8	

4 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8587682

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 5

HS= 4.869

VS= 2.414

GS= 5.127

CENTROID #

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	2.313	2.484	2.117
MINIMUM X	:	-2.556	-2.299	-1.666
MAXIMUM Y	:	.806	.658	.674
MINIMUM Y	:	-1.608	-1.756	-1.740
CENTROID X	:	-.047	-.304	-.017
CENTROID Y	:	.002	.150	.134
POA TO CENTROID in.	:	.047	.339	.135
MIN RADIUS	:	.372	.158	.301
MEAN RADIUS	:	1.430	1.218	1.107
MAX RADIUS	:	2.670	2.493	2.221
HORIZONTAL SPREAD	:	4.869	4.703	3.783
VERTICAL SPREAD	:	2.414	2.414	2.414
EXTREME SPREAD	:	5.127	4.733	3.867
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		5	

4 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587682

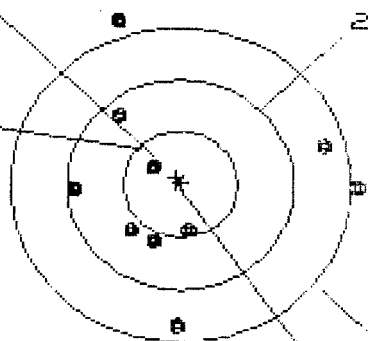
CENTERFIRE PATTERNS # 5

POA

1in circle

2in circle

3in circle



CENTROID #

OF SHOTS- 10

IN CIR

1in = 2

2in = 5

3in = 8

HO= 2.526

VO= 2.850

GO= 2.885

PATTERN #

5

SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.587	1.530	1.429
MINIMUM X	-.939	-.996	-.804
MAXIMUM Y	1.547	.830	.844
MINIMUM Y	-1.303	-1.131	-1.117
CENTROID X	.035	.092	-.100
CENTROID Y	-.066	-.238	-.252
POA TO CENTROID in.	.075	.255	.271
MIN RADIUS	.279	.291	.341
MEAN RADIUS	.956	.863	.728
MAX RADIUS	1.627	1.535	1.530
HORIZONTAL SPREAD	2.526	2.526	2.233
VERTICAL SPREAD	2.850	1.961	1.961
EXTREME SPREAD	2.885	2.526	2.263
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	6		
NUMBER IN THREE INCH CIRCLE =	8		