

06594527

MODEL 700TM M24

Model **SMS** TM

Action

Barrel Length

Capacity

Order No. **5715**

*Includes 1 in chamber.

Remington

Serial Number: C6594527

Model: 700



RE00038566

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-97-C-242

R & E NUMBER 38566			
SERIAL NUMBER C6994527			
LOG-IN DATE 1-2-02			
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	1-2-02	PK
560 A	RE-BARREL AT CUSTOM SHOP	1-3-02	BWT
B	DRILL AND TAP	1-3-02	BWT
C	POLISH		
575	ASSEMBLE	1-4-02	AC
600	PROOF	1-4-02	AC
605	CHECK HEADSPACE	1-4-02	AC
610	DIS-ASSEMBLE GUN	1-4-02	AC
612	MAGNAFLUX	OPERATOR AC	
615	ROLLMARK CALIBER	1-7-02	JB
618	ROTO-BLAST	1/7	KO
620	APPLY COATINGS	1/7	HP
625 A	FINAL ASSEMBLY	1-9-02	PK
B	TRIGGER PULL TEST	↑	
C	SAFETY "ON" FORCE	NA	
D	SAFETY "OFF" FORCE	↓	
E	FIRING PIN INDENT		
640	TARGET	1-10-02	AC
655	FINAL INSPECT	1-11-02	PK
660	PACK	1-11-02	DA
		SHIP DATE	
QAR INSPECTION DATE			

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6594527.___0
FILE DATE AND TIME: 01/10/2002 02:52

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.185
The Average Y Centroid of the Five Target Set:	-0.082
The Average Point of Impact of the Five Target Set:	0.203
The Average Mean Radius of the Five Target Set:	0.648
The Distance from POA to Centroid Target #1:	0.201
The Distance from Centroid Target #2 to Centroid Target #1:	0.330
The Distance from Centroid Target #3 to Centroid Target #1:	0.118
The Distance from Centroid Target #4 to Centroid Target #1:	0.167
The Distance from Centroid Target #5 to Centroid Target #1:	0.092

SERIAL NUMBER: C6594527. 0

TARGET NUMBER: 1

FILE DATE: 01/10/2002

FILE TIME: 02:52

X CENTROID: 0.200

Y CENTROID: -0.021

POA TO CENTROID: 0.201

HORZ SPREAD: 1.564

VERT SPREAD: 2.257

GROUP SPREAD: 2.302

MIN RADIUS: 0.054

MAX RADIUS: 1.399

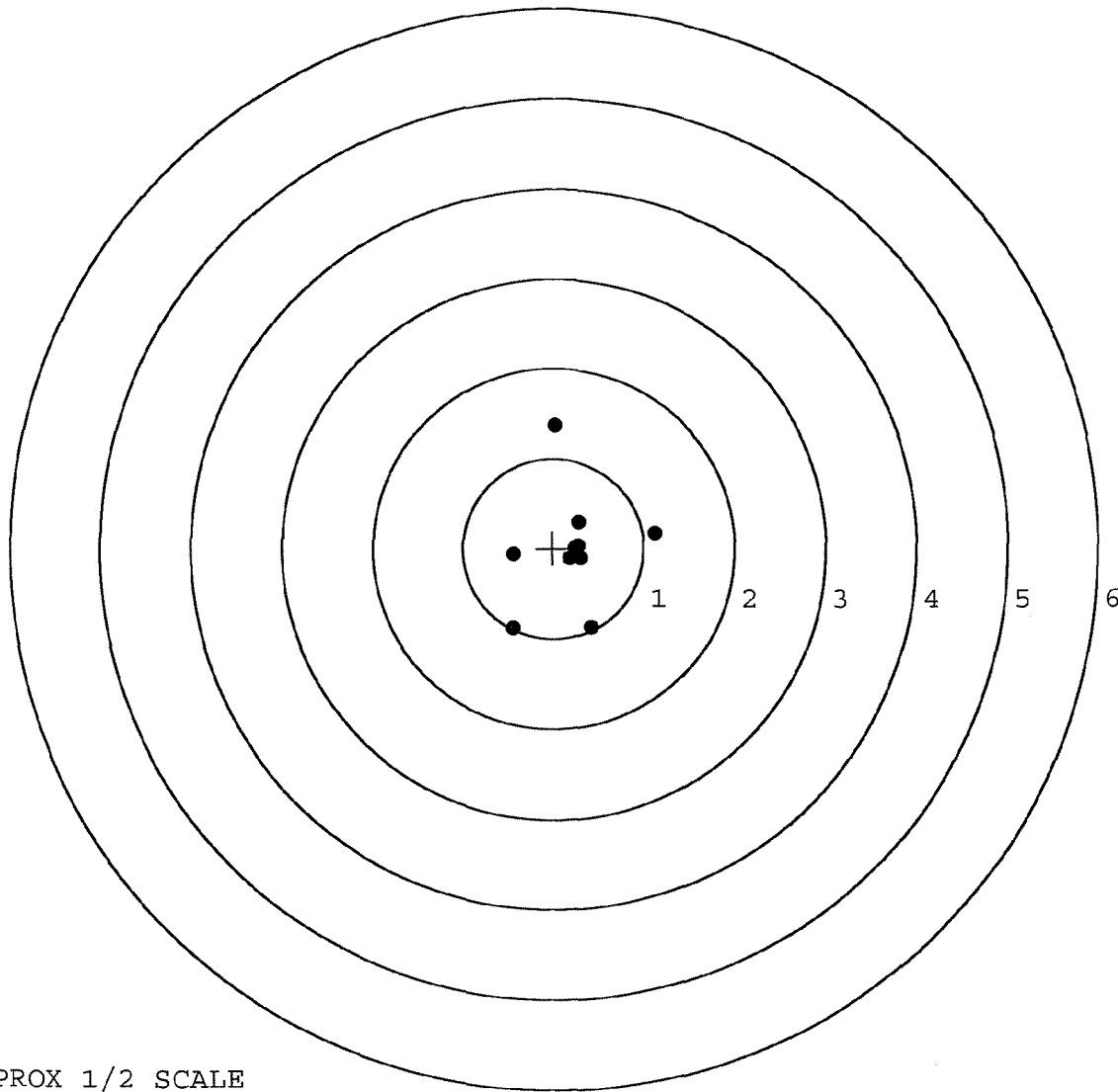
MEAN RADIUS: 0.566

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	1.123	0.173
2:	0.014	1.365
3:	-0.435	-0.067
4:	0.280	0.297
5:	0.282	0.020
6:	0.310	-0.117
7:	0.193	-0.116
8:	-0.441	-0.892
9:	0.423	-0.878
10:	0.249	0.001

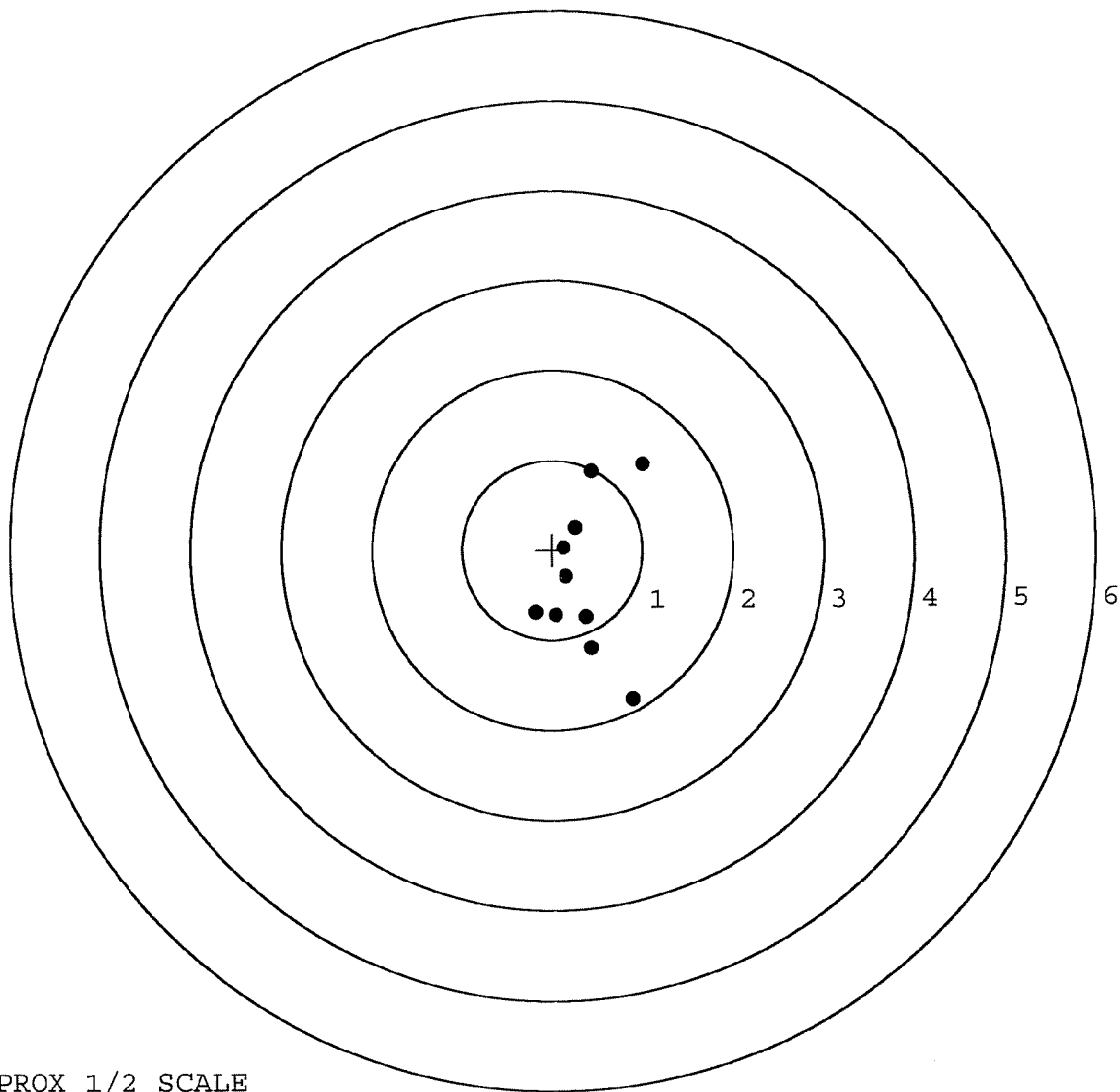


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6594527. __0
 TARGET NUMBER: 2
 FILE DATE: 01/10/2002
 FILE TIME: 02:52

X CENTROID: 0.354
 Y CENTROID: -0.312
 POA TO CENTROID: 0.472
 HORZ SPREAD: 1.194
 VERT SPREAD: 2.609
 GROUP SPREAD: 2.612
 MIN RADIUS: 0.197
 MAX RADIUS: 1.442
 MEAN RADIUS: 0.764
 # IN 1 IN DIAMETER: 3
 # IN 2 IN DIAMETER: 7
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	1.003	0.955
2:	0.441	0.875
3:	0.884	-1.654
4:	0.437	-1.098
5:	0.376	-0.748
6:	0.042	-0.730
7:	-0.191	-0.695
8:	0.264	0.252
9:	0.129	0.024
10:	0.157	-0.306



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6594527. 0

TARGET NUMBER: 3

FILE DATE: 01/10/2002

FILE TIME: 02:52

X CENTROID: 0.111

Y CENTROID: -0.098

POA TO CENTROID: 0.148

HORZ SPREAD: 1.115

VERT SPREAD: 2.883

GROUP SPREAD: 3.065

MIN RADIUS: 0.229

MAX RADIUS: 1.996

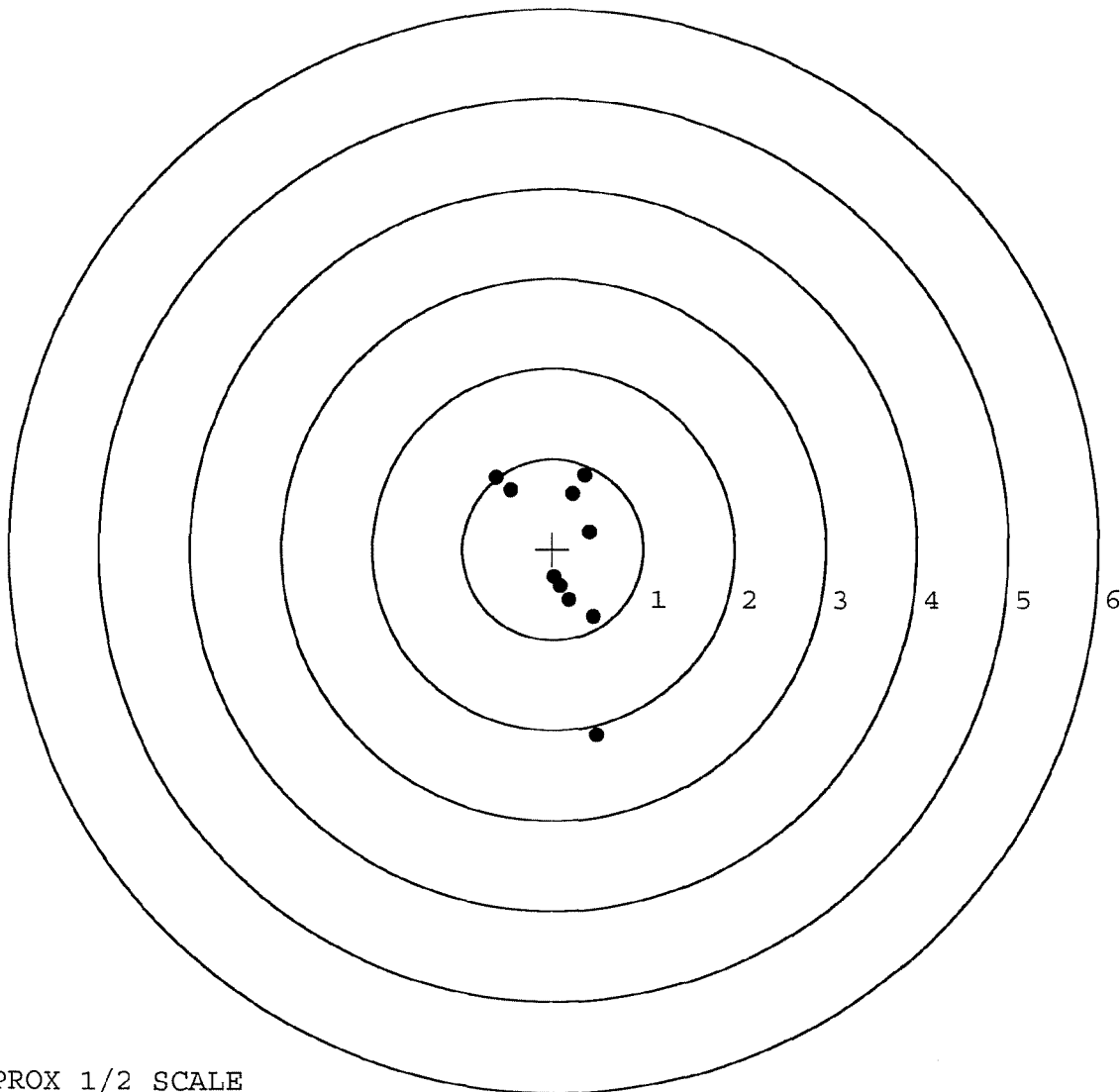
MEAN RADIUS: 0.794

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 9

POINT#	X	Y
1:	0.356	0.825
2:	0.220	0.618
3:	-0.628	0.797
4:	-0.467	0.659
5:	0.403	0.198
6:	0.016	-0.307
7:	0.180	-0.561
8:	0.453	-0.742
9:	0.487	-2.058
10:	0.087	-0.411



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6594527. 0

TARGET NUMBER: 4

FILE DATE: 01/10/2002

FILE TIME: 02:52

X CENTROID: 0.111

Y CENTROID: 0.119

POA TO CENTROID: 0.163

HORZ SPREAD: 1.491

VERT SPREAD: 1.664

GROUP SPREAD: 2.022

MIN RADIUS: 0.238

MAX RADIUS: 1.193

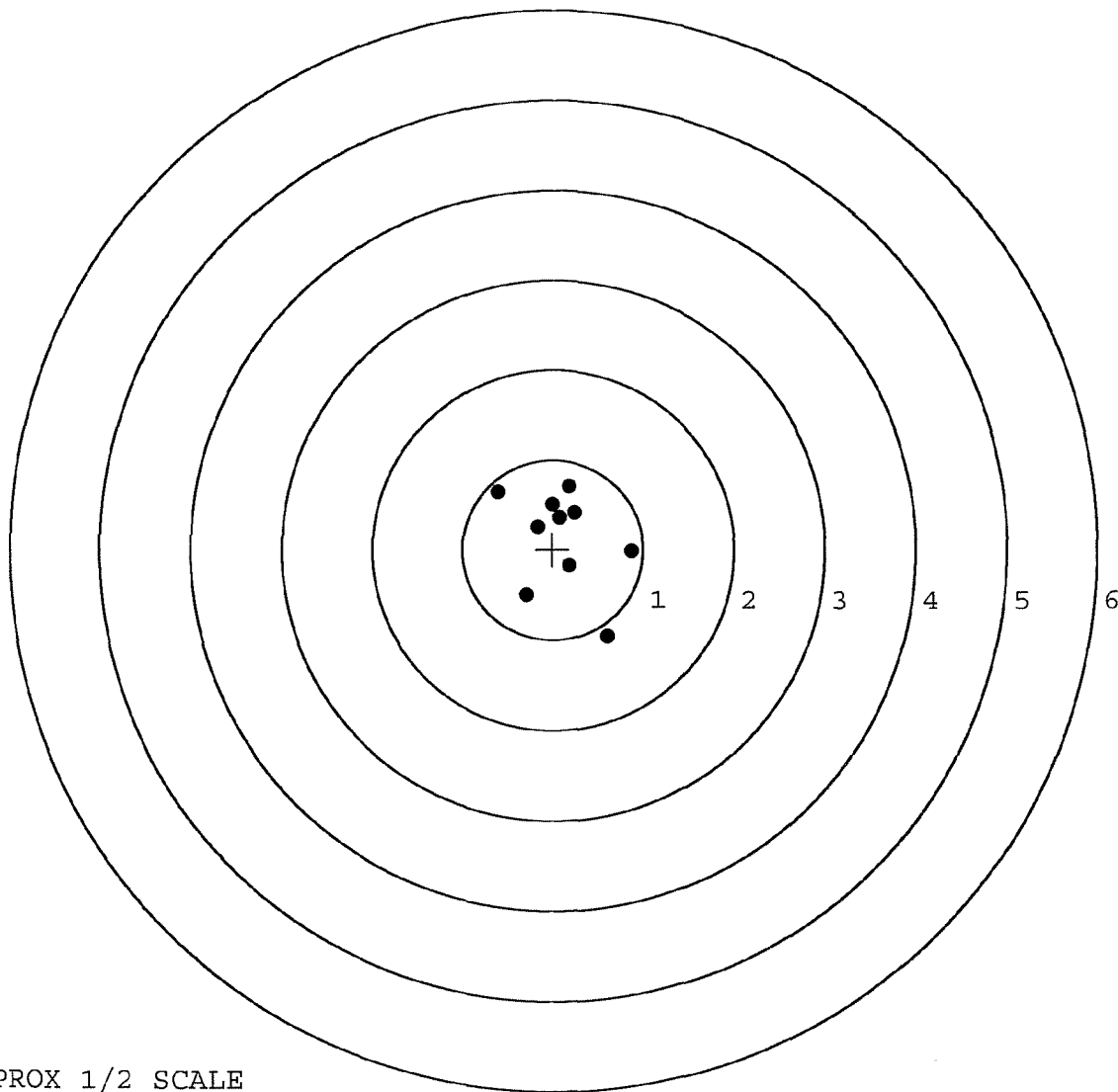
MEAN RADIUS: 0.578

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.880	-0.015
2:	0.613	-0.963
3:	0.187	-0.185
4:	-0.289	-0.510
5:	-0.611	0.646
6:	-0.168	0.253
7:	0.185	0.701
8:	-0.007	0.504
9:	0.074	0.355
10:	0.242	0.408



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6594527. 0

TARGET NUMBER: 5

FILE DATE: 01/10/2002

FILE TIME: 02:52

X CENTROID: 0.151

Y CENTROID: -0.099

POA TO CENTROID: 0.180

HORZ SPREAD: 1.277

VERT SPREAD: 1.533

GROUP SPREAD: 1.629

MIN RADIUS: 0.035

MAX RADIUS: 0.860

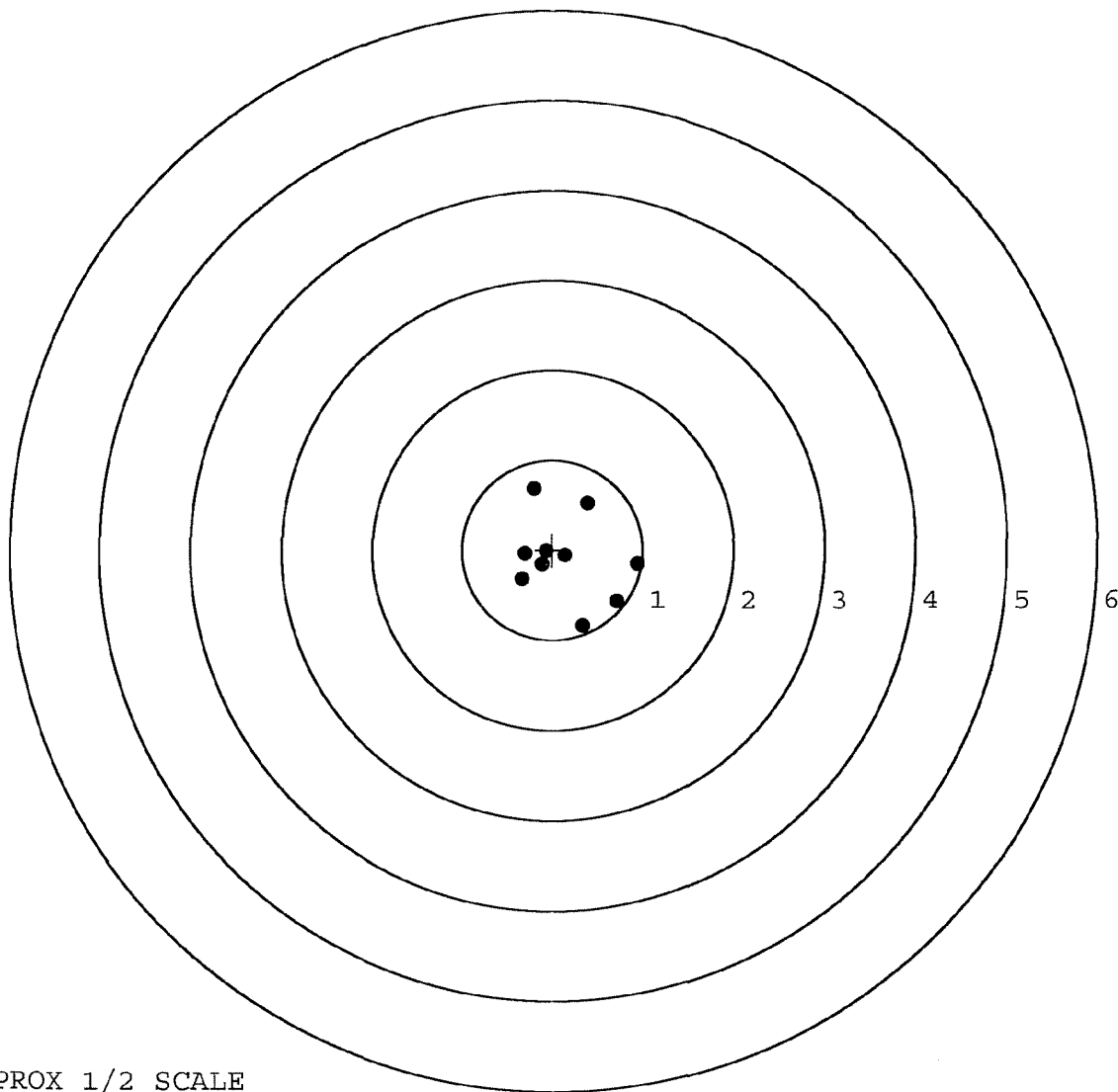
MEAN RADIUS: 0.538

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.391	0.526
2:	-0.208	0.682
3:	0.943	-0.155
4:	0.717	-0.575
5:	0.344	-0.851
6:	0.145	-0.065
7:	-0.305	-0.044
8:	-0.068	-0.017
9:	-0.334	-0.333
10:	-0.119	-0.162



TARGET APPROX 1/2 SCALE

Remington® **DUPONT**
REG. U.S. PAT. & TM. OFF.

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

MODEL 700™ M24

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

SERIAL NO.
C6594527

ORDER NO.
5716

20

5716 C6594527

LPC

0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6594527

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		12/27/90	KS.
600	Proof		12/27/90	KS.
607	Check Headspace		12/27/90	K.S.
610	Dis-assemble Gun		12/27/90	K.S.
612	Magnaflux Barrel Action		11/9/91	KR
	Magnaflux Bolt		11	KR
615	Rollmark Caliber		11	GB
617	Drill and Tap Sight Holes	1 10 91		KB
618	Polish Barrel	1 10 91		WB
620	Apply Coatings (Barrel Action)		1-22-91	JA
	Apply Coating (Bolt)			
625	Final Assembly			
	A) Clean inside of Bolt Assembly		1/30/91	KS
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		1/30/91	KS
	C) Inspect Ejector Hole for Chamfer		1/30/91	KS
	D) Oil Firing Pin Ass'y		1/30/91	KS
	E) Adjust Trigger Pull to Min Setting and Stake		1/31/91	JA

op. #	OP. NAME	READINGS					DATE	INIT.
625 cont.	F) Safety On Force	5	5	5			1/31/91	WB
	G) Safety Off Force	2 1/2	2 1/2	2 1/2			1/31/91	WB
	H) Trigger Pull Test & Retainability						1/31/91	JLP
	I) Firing Pin Indent.	.0205	.0205	.0205			1/31/91	WB
	J) Assemble Stock						1/31/91	KS
	K) Assemble Swivel Studs						2-19-91	A
	L) Attach Front and Rear Sight Assemblies						1/31/91	KS
	M) Iron Sight Alignment						1/31/91	KS
	N) Detach Front & Rear Sights & place in numbered container						1/31/91	KS
	O) Attach Scope to Rifle						1/31/91	KS
	P) Detach & Attach Scope 20 Times						1/31/91	KS
640	Gallery Target & Test						2-5-91	DH
	A) Time						2-5-91	DH
	B) Malfunctions						2-5-91	DH
	C) Pierced Primers						2-5-91	DH
	D) Optical Clarity of Scope						2-5-91	DH
645	Inspect for Live Ammo						2-5-91	DH
655	Final Inspection							
	A) Headspace						2-19-91	A
	B) Trigger Pull	2.49	2.40	2.25	2.27	2.31	2/18/91	WB
	C) Function						2-19-91	A
660	Pack						3-19-91	NF

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. CL594527

DATE 1-31-91

TESTER JL

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.50	2.31	2.35	2.49	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.50	2.21	2.30	2.40	
PULL #3	2.36	2.20	2.33	2.25	
PULL #4	2.41	2.30	2.38	2.27	
PULL #5	2.25	2.31	2.34	2.31	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.51	3.47		
PULL #2	3.45	3.42		
PULL #3	3.20	3.42		
PULL #4	3.55	3.43		
PULL #5	3.34	3.45		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.26	4.49		4.14
PULL #2	4.26	4.50		4.34
PULL #3	4.28	4.30		4.33
PULL #4	4.20	4.32		4.27
PULL #5	4.28	4.30		4.30
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6594527
6 Feb 1991

Govt

CENTROIDAL DISTANCES

0 TO	1	.235308
1 TO	2	.372871
1 TO	3	.518441
1 TO	4	.515461
1 TO	5	.296987

$\begin{matrix} 3 \\ 4+1 \\ 2 \end{matrix}$ <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .1106
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0952
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .145929

THE AMR FOR THIS RIFLE IS: 1.011

Gov't

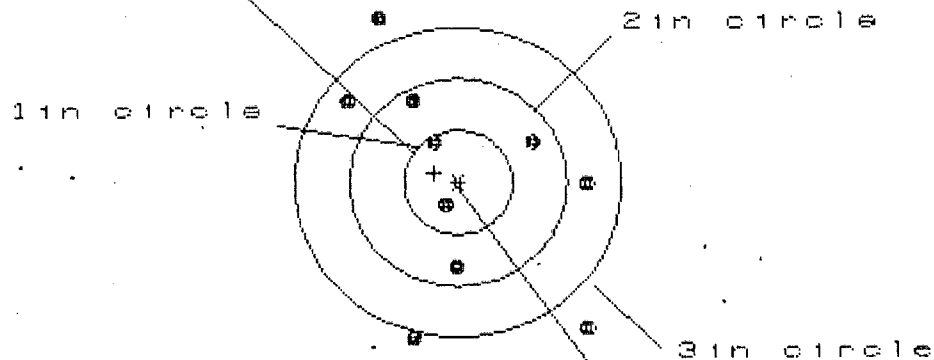
6 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6594527\

CENTERFIRE PATTERNS

1

POR



#.OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 7

HS= 2.148

VS= 3.005

GS= 3.517

CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.140	1.261	1.189
MINIMUM X	-1.008	-.882	-.954
MAXIMUM Y	1.543	1.381	.850
MINIMUM Y	-1.462	-1.624	-1.451
CENTROID X	.217	.091	.163
CENTROID Y	-.091	.071	-.102
POR TO CENTROID in.	.236	.115	.192
MIN RADIUS	.252	.308	.230
MEAN RADIUS	1.076	.973	.900
MAX RADIUS	1.848	1.656	1.505
HORIZONTAL SPREAD	2.148	2.143	2.143
VERTICAL SPREAD	3.005	3.005	2.301

BARBER - M24 0018676

EXTREME	SPREAD :	3.517	3.015	2.967
NUMBER IN ONE	INCH CIRCLE	=	1	
NUMBER IN TWO	INCH CIRCLE	=	5	
NUMBER IN THREE	INCH CIRCLE	=	7	

6 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/06594527

CENTERFIRE PATTERNS

2

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS = 10

IN CIR

1 in = 0

2 in = 5

3 in = 8

HS = 2.538

VS = 2.089

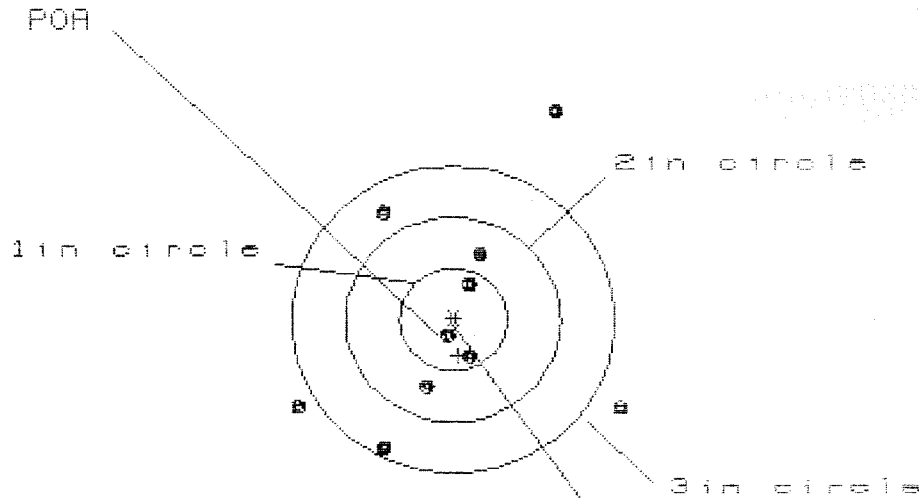
GS = 3.072

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.499	1.326	.896
MINIMUM X	:	-1.039	-.873	-.707
MAXIMUM Y	:	.982	.990	.872
MINIMUM Y	:	-1.107	-.997	-1.115
CENTROID X	:	.340	.174	.008
CENTROID Y	:	-.443	-.553	-.435
POA TO CENTROID in.	:	.559	.579	.435
MIN RADIUS	:	.538	.616	.484
MEAN RADIUS	:	1.048	.955	.847
MAX RADIUS	:	1.792	1.626	1.192
HORIZONTAL SPREAD	:	2.538	2.199	1.603
VERTICAL SPREAD	:	2.089	1.987	1.987
EXTREME SPREAD	:	3.072	2.748	2.016
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		8	

6 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/08594527

CENTERFIRE PATTERNS # 3



OF SHOTS - 10

IN CIR

1 in = 3

2 in = 5

3 in = 7

HS = 2.963

VS = 3.263

GS = 3.700

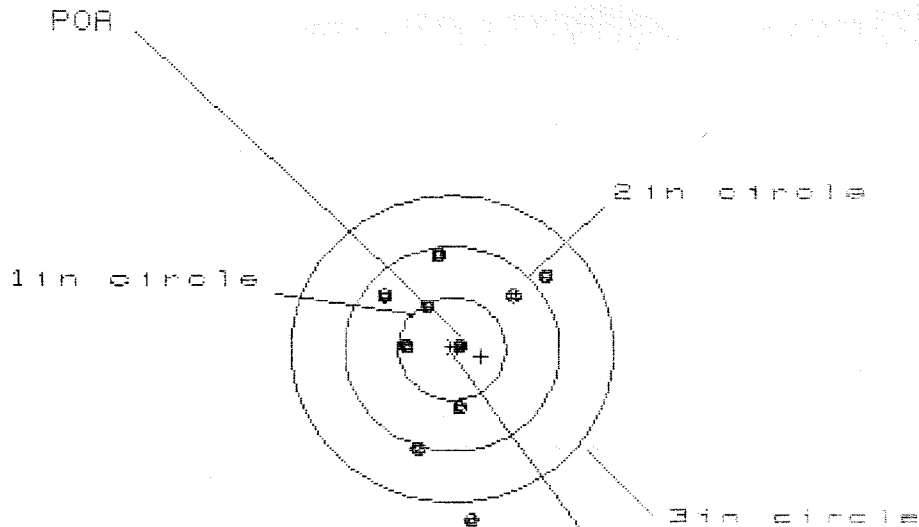
CENTROID #

PATTERN #	3
SHOTS (BEST OF)	10
MAXIMUM X	1.557
MINIMUM X	-1.406
MAXIMUM Y	2.021
MINIMUM Y	-1.242
CENTROID X	-0.049
CENTROID Y	.354
POA TO CENTROID in.	.358
MIN RADIUS	.213
MEAN RADIUS	1.058
MAX RADIUS	2.247
HORIZONTAL SPREAD	2.963
VERTICAL SPREAD	3.263
EXTREME SPREAD	3.700
NUMBER IN ONE INCH CIRCLE =	3
NUMBER IN TWO INCH CIRCLE =	5
NUMBER IN THREE INCH CIRCLE =	7

6 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8594527

CENTERFIRE PATTERNS # 4



OF SHOTS - 10

IN CIR

1 in = 3

2 in = 7

3 in = 9

HS= 1.518

VS= 2.668

GS= 2.682

PATTERN #	4	4	4
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.885	.899	.664
MINIMUM X	-.633	-.619	-.507
MAXIMUM Y	.952	.761	.833
MINIMUM Y	-1.716	-1.211	-1.139
CENTROID X	-.271	-.285	-.397
CENTROID Y	.075	.266	.194
POA TO CENTROID in.	.281	.390	.442
MIN RADIUS	.112	.229	.267
MEAN RADIUS	.804	.681	.620
MAX RADIUS	1.721	1.242	1.150
HORIZONTAL SPREAD	1.518	1.518	1.171
VERTICAL SPREAD	2.668	1.972	1.972
EXTREME SPREAD	2.682	2.140	1.977
NUMBER IN ONE INCH CIRCLE =	3		
NUMBER IN TWO INCH CIRCLE =	7		
NUMBER IN THREE INCH CIRCLE =	9		

6 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6534527

CENTERFIRE PATTERNS # 5

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS- 10

IN CIR

1 in = 0

2 in = 5

3 in = 10

HS= 2.083

VS= 2.804

GS= 2.922

PATTERN #	5	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.970	1.023	1.096
MINIMUM X	-1.113	-1.060	-.987
MAXIMUM Y	1.392	1.235	1.382
MINIMUM Y	-1.412	-.892	-.745
CENTROID X	.316	.263	.190
CENTROID Y	-.371	-.214	-.361
POA TO CENTROID in.	.487	.339	.408
MIN RADIUS	.599	.574	.474
MEAN RADIUS	1.067	1.012	.951
MAX RADIUS	1.491	1.358	1.400
HORIZONTAL SPREAD	2.083	2.083	2.083
VERTICAL SPREAD	2.804	2.127	2.127
EXTREME SPREAD	2.922	2.502	2.502
NUMBER IN ONE INCH CIRCLE =	0		

NUMBER IN TWO INCH CIRCLE = 5
BARBER - M24 0018681 CIRCLE = 10