

C6349120

MODEL 700™ M24

Model **SWS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

Smith
Smith

RE00085653

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6349120.__0
FILE DATE AND TIME: 11/01/2004 11:53

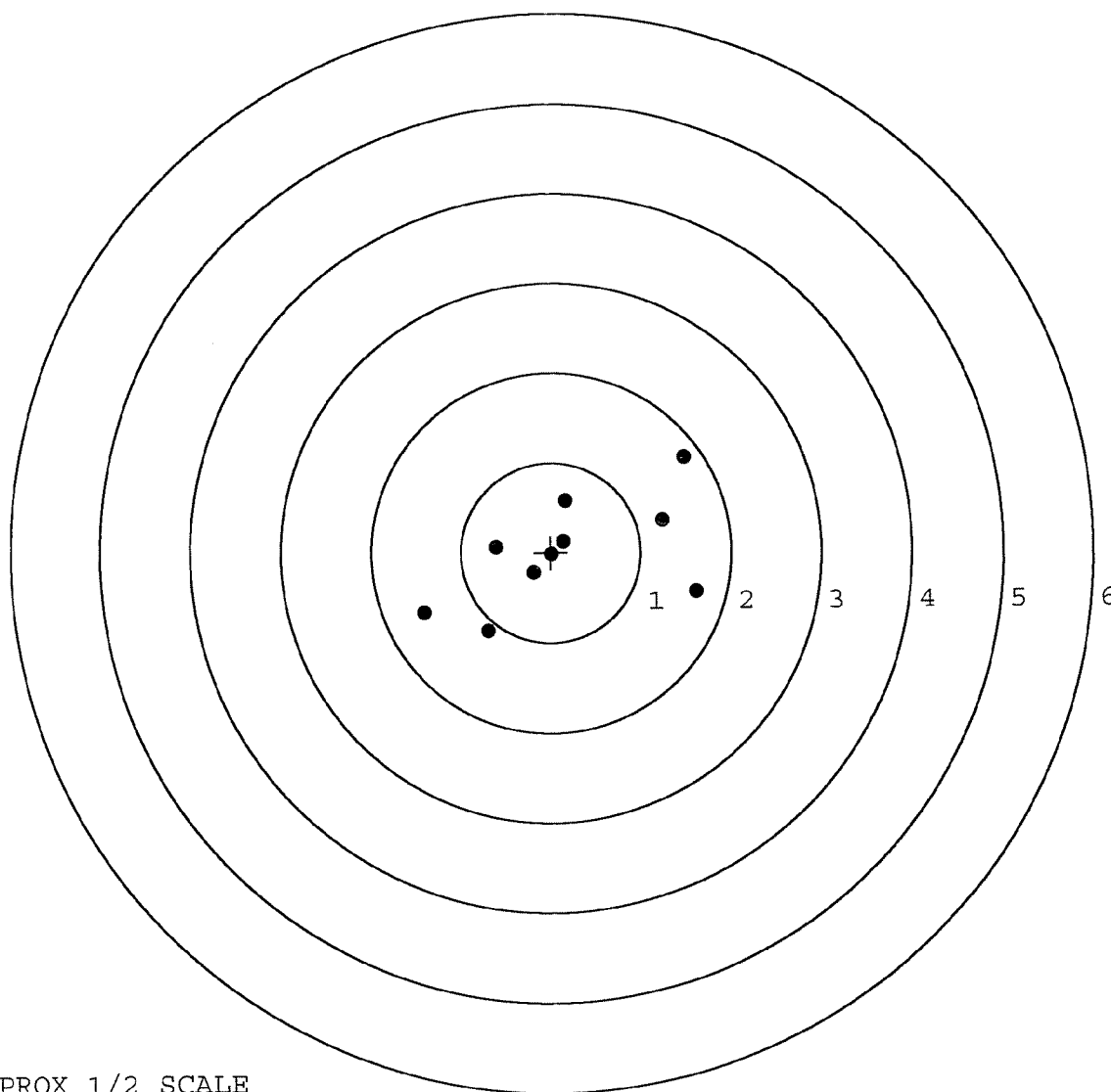
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.083
The Average Y Centroid of the Five Target Set:	-0.023
The Average Point of Impact of the Five Target Set:	0.086
The Average Mean Radius of the Five Target Set:	0.820
The Distance from POA to Centroid Target #1:	0.172
The Distance from Centroid Target #2 to Centroid Target #1:	0.221
The Distance from Centroid Target #3 to Centroid Target #1:	0.247
The Distance from Centroid Target #4 to Centroid Target #1:	0.057
The Distance from Centroid Target #5 to Centroid Target #1:	0.021

SERIAL NUMBER: C6349120. 0
 TARGET NUMBER: 1
 FILE DATE: 11/01/2004
 FILE TIME: 11:53

POINT#	X	Y
1:	1.610	-0.450
2:	1.240	0.347
3:	1.482	1.050
4:	0.170	0.579
5:	-0.613	0.065
6:	-0.706	-0.870
7:	-1.419	-0.663
8:	-0.197	-0.229
9:	0.010	-0.022
10:	0.142	0.124

X CENTROID: 0.172
 Y CENTROID: -0.007
 POA TO CENTROID: 0.172
 HORZ SPREAD: 3.029
 VERT SPREAD: 1.920
 GROUP SPREAD: 3.369
 MIN RADIUS: 0.134
 MAX RADIUS: 1.721
 MEAN RADIUS: 0.937
 # IN 1 IN DIAMETER: 3
 # IN 2 IN DIAMETER: 5
 # in 3 IN DIAMETER: 7

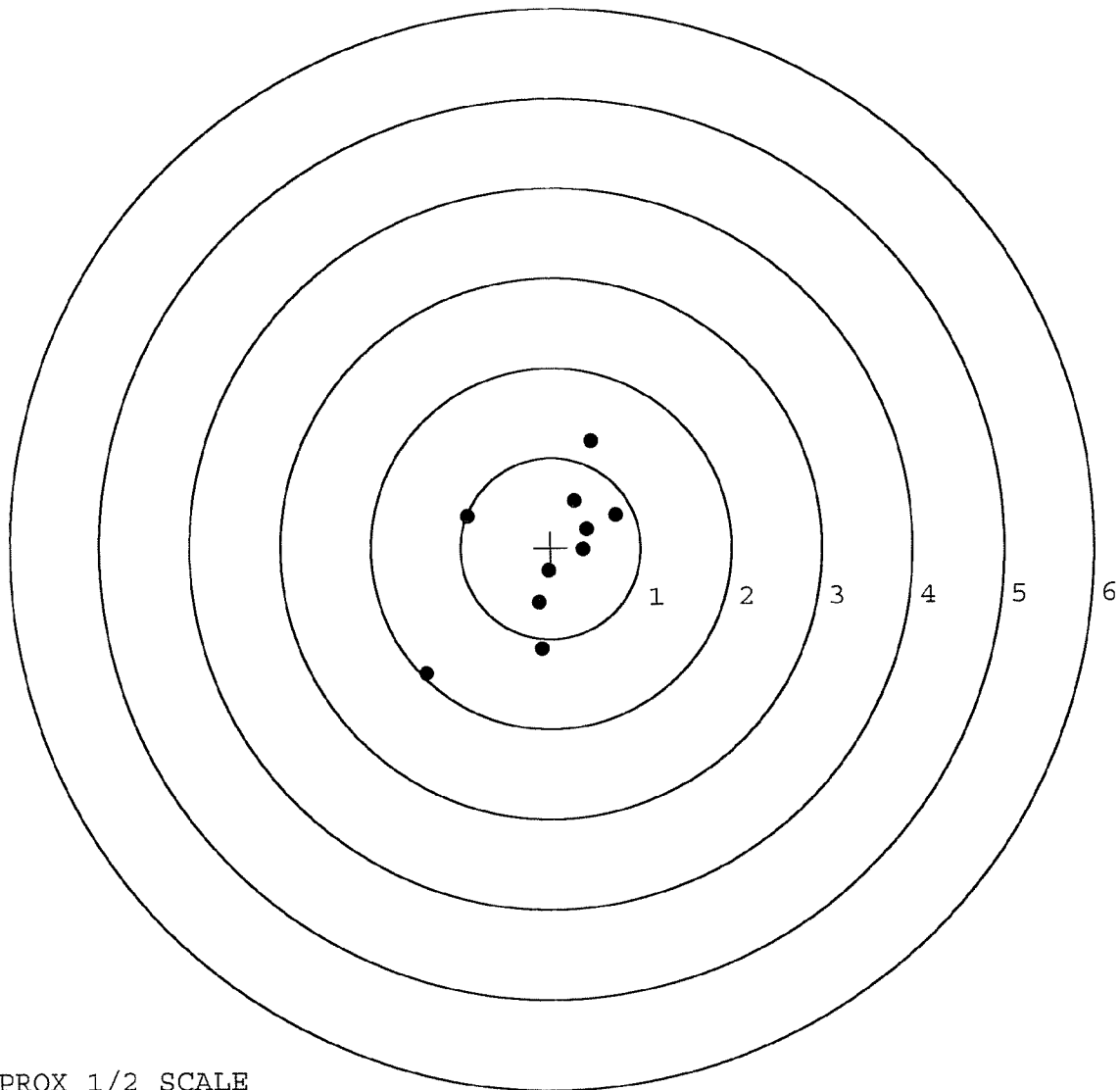


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349120. __ 0
 TARGET NUMBER: 2
 FILE DATE: 11/01/2004
 FILE TIME: 11:53

POINT#	X	Y
1:	-1.395	-1.376
2:	-0.923	0.354
3:	0.457	1.180
4:	0.721	0.354
5:	0.269	0.518
6:	0.400	0.204
7:	0.365	-0.024
8:	-0.027	-0.257
9:	-0.135	-0.602
10:	-0.108	-1.116

X CENTROID: -0.038
 Y CENTROID: -0.076
 POA TO CENTROID: 0.085
 HORZ SPREAD: 2.116
 VERT SPREAD: 2.556
 GROUP SPREAD: 3.156
 MIN RADIUS: 0.181
 MAX RADIUS: 1.879
 MEAN RADIUS: 0.844
 # IN 1 IN DIAMETER: 2
 # IN 2 IN DIAMETER: 7
 # in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349120. 0

TARGET NUMBER: 3

FILE DATE: 11/01/2004

FILE TIME: 11:53

X CENTROID: -0.074

Y CENTROID: 0.018

POA TO CENTROID: 0.077

HORZ SPREAD: 1.716

VERT SPREAD: 2.201

GROUP SPREAD: 2.474

MIN RADIUS: 0.366

MAX RADIUS: 1.314

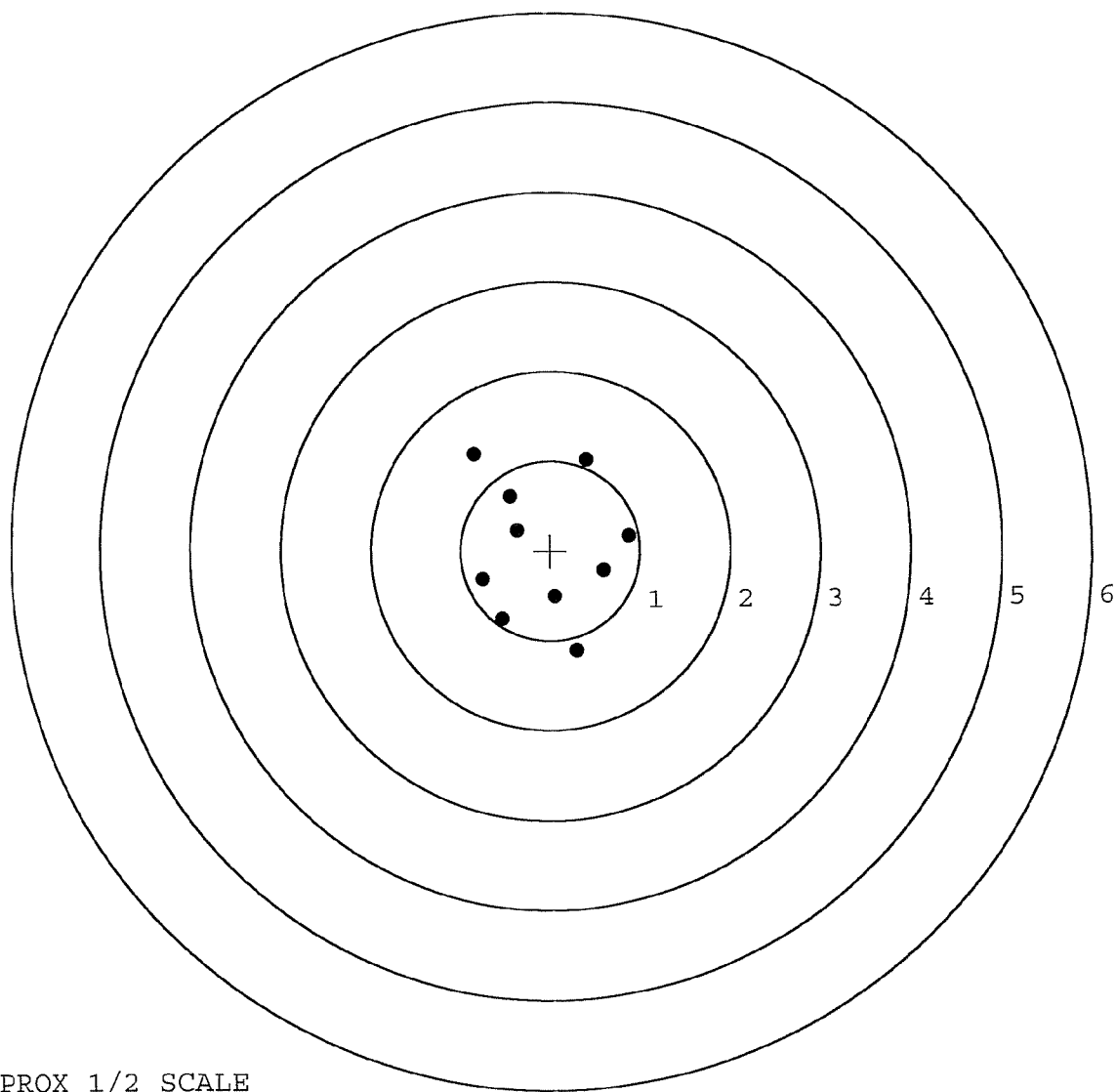
MEAN RADIUS: 0.855

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.287	-1.116
2:	0.047	-0.511
3:	0.597	-0.222
4:	0.874	0.160
5:	0.411	1.008
6:	-0.443	0.612
7:	-0.373	0.230
8:	-0.543	-0.754
9:	-0.758	-0.308
10:	-0.842	1.085



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349120. __0

TARGET NUMBER: 4

FILE DATE: 11/01/2004

FILE TIME: 11:53

POINT#	X	Y
1:	1.753	-0.802
2:	0.612	0.668
3:	0.361	0.876
4:	-0.419	0.767
5:	-0.155	0.372
6:	-0.999	-0.737
7:	0.606	-0.638
8:	0.018	-0.134
9:	0.157	-0.441
10:	-0.131	-0.563

X CENTROID: 0.180

Y CENTROID: -0.063

POA TO CENTROID: 0.191

HORZ SPREAD: 2.752

VERT SPREAD: 1.678

GROUP SPREAD: 2.753

MIN RADIUS: 0.177

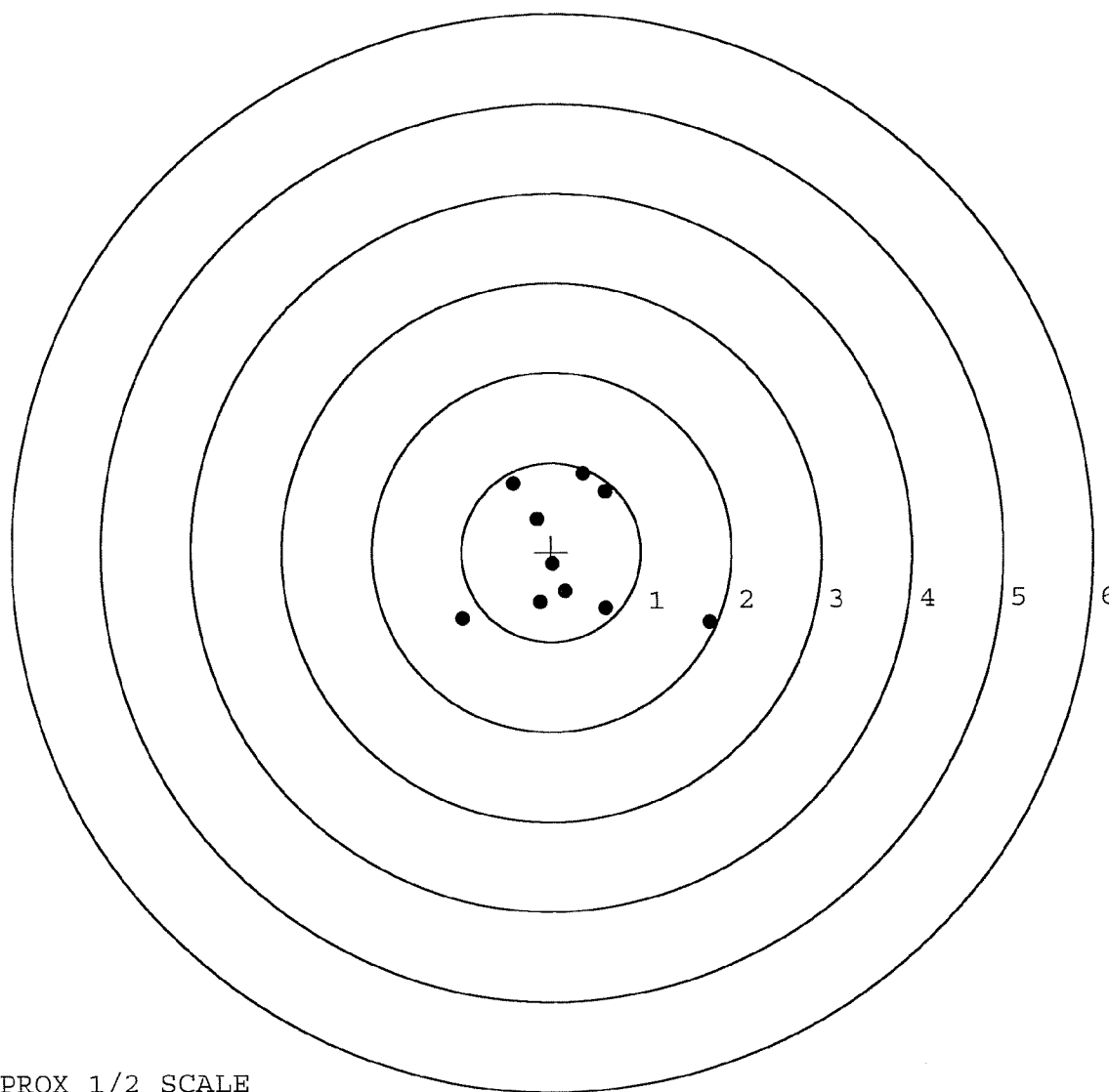
MAX RADIUS: 1.738

MEAN RADIUS: 0.833

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 9

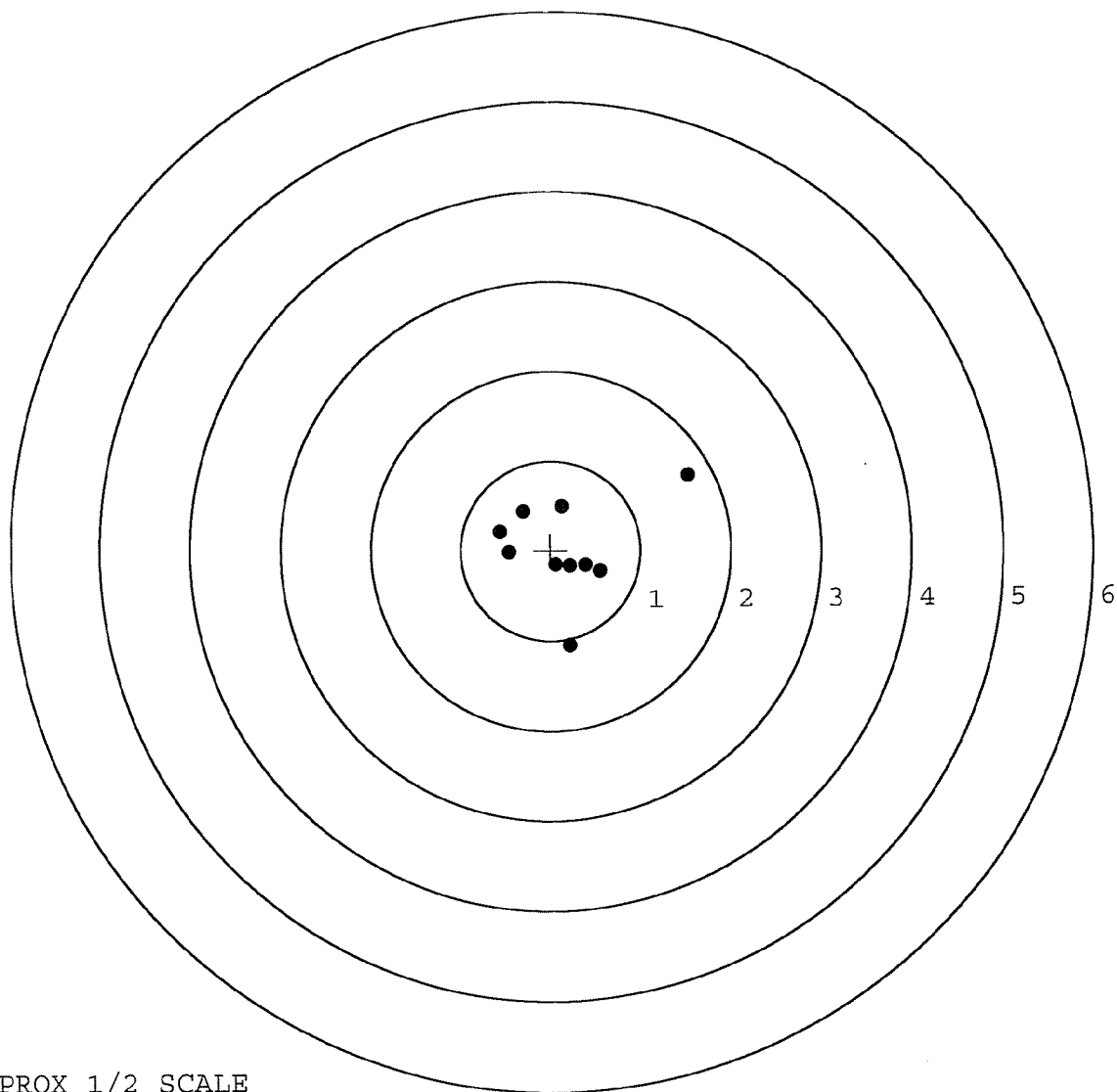


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349120. __0
 TARGET NUMBER: 5
 FILE DATE: 11/01/2004
 FILE TIME: 11:53

POINT#	X	Y
1:	1.528	0.832
2:	0.211	-1.057
3:	0.131	0.493
4:	-0.306	0.434
5:	-0.563	0.207
6:	-0.466	-0.025
7:	0.054	-0.165
8:	0.218	-0.177
9:	0.392	-0.169
10:	0.549	-0.237

X CENTROID: 0.175
 Y CENTROID: 0.014
 POA TO CENTROID: 0.175
 HORZ SPREAD: 2.091
 VERT SPREAD: 1.889
 GROUP SPREAD: 2.303
 MIN RADIUS: 0.195
 MAX RADIUS: 1.581
 MEAN RADIUS: 0.632
 # IN 1 IN DIAMETER: 5
 # IN 2 IN DIAMETER: 8
 # in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

[illegible]

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

R & E NUMBER	85633		
SERIAL NUMBER	C6349128		
LOG-IN DATE	9-28-04		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	10-7-04	RTL
560 A	RE-BARREL	10-8-04	AC
B	DRILL AND TAP	10-12-04	TRW
575	ASSEMBLE	10-8-04	RTL
600	PROOF	10-11-04	K
605	CHECK HEADSPACE	10-12-04	RTL
610	DIS-ASSEMBLE GUN	10-12-04	RTL
612	MAGNAFLUX	OPERATOR	
615	ROLLMARK CALIBER	10/13/04	CD
618	ROTO-BLAST	10/14/04	LB
620	APPLY COATINGS	10/25/04	HP
625 A	FINAL ASSEMBLY	10-28-04	RTL
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE		
D	SAFETY "OFF" FORCE		
E	FIRING PIN INDENT		
640	TARGET	11-1-04	TRW
655	FINAL INSPECT	11-3-04	
660	PACK	11-4-04	RA
		SHIP DATE	
		QAR INSPECTION DATE	

Remington[®]


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

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

MODEL 700TM M24

SERIAL NO.
C6349120

ORDER NO.
5716

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

01



5716 C6349120

UPC



M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6349120

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	3 31	90	RW
600	Proof	3 31	90	RW
607	Check Headspace	3 31	90	RW
610	Dis-assemble Gun	3 31	90	RW
612	Magnaflux Barrel Action	4-2-90		KCR
	Magnaflux Bolt	4-2-90		KCR
615	Rollmark Caliber	4-2-90		LS
617	Drill and Tap Sight Holes		4/4/90	LB
618	Polish Barrel RB		4/5/90	WB
620	Apply Coatings (Barrel Action)		4-9-90	JA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		4/18/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		4/18/90	RW
	C) Inspect Ejector Hole for Chamfer		4/18/90	RW
	D) Oil Firing Pin Ass'y		4/18/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		5/1/90	JA

BARBER - M24 0108202

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4	4	4			5/2/90	RL
	G) Safety Off Force	3	3	3			5/2/90	RL
	H) Trigger Pull Test & Retainability						5/1/90	RL
	I) Firing Pin Indent	.0205	.021	.021			5/2/90	RL
	J) Assemble Stock						5/3/90	RL
	K) Assemble Swivel Studs						5/8/90	WB
	L) Attach Front and Rear Sight Assemblies						5/3/90	RL
	M) Iron Sight Alignment						5/3/90	RL
	N) Detach Front & Rear Sights & place in numbered container						5/3/90	RL
	O) Attach Scope to Rifle						5/3/90	RL
	P) Detach & Attach Scope 20 Times						5/3/90	RL
640	Gallery Target & Test						5-4-90	DH
	A) Time						5-4-90	DH
	B) Malfunctions						5-4-90	DH
	C) Pierced Primers						5-4-90	DH
	D) Optical Clarity of Scope						5-4-90	DH
645	Inspect for Live Ammo						5-4-90	DH
655	Final Inspection						5/8/90	WB
	A) Headspace							
	B) Trigger Pull	2.34	2.33	2.32	2.31	2.32	5/7/90	WB
	C) Function						5/8/90	WB
660	Pack						6/19/90	DH

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO. C6349120

DATE 5/1/90

TESTER JLL

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.52	2.38	2.30	2.34	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.41	2.45	2.40	2.33	
PULL #3	2.47	2.44	2.43	2.32	
PULL #4	2.48	2.47	2.46	2.31	
PULL #5	2.45	2.54	2.45	2.32	
TOTAL	12.33	12.48	12.04		
AVG.	2.466	2.496	2.408		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.23	3.21		
PULL #2	3.25	3.30		
PULL #3	3.31	3.22		
PULL #4	3.31	3.24		
PULL #5	3.28	3.21		
TOTAL	16.38	16.18		
AVG.	3.276	3.236		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.49	4.50		4.45
PULL #2	4.36	4.45		4.38
PULL #3	4.41	4.49		4.47
PULL #4	4.36	4.50		4.44
PULL #5	4.38	4.46		4.43
TOTAL	22.00	22.40		22.27
AVG.	4.4	4.48		4.454

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6349120
7 May 1990

CENTROIDAL DISTANCES

0 TO	1	.247421
1 TO	2	.178664
1 TO	3	.00984886
1 TO	4	.374386
1 TO	5	.226771

4.2 <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .1126
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0784
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .137205

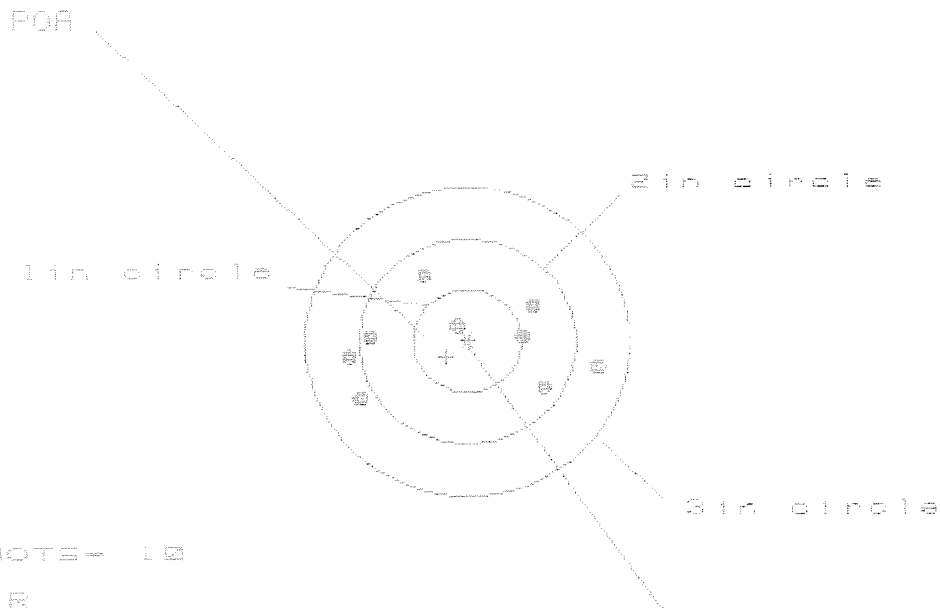
THE AMR FOR THIS RIFLE IS: .7572

7 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/Q6349120

CENTERFIRE PATTERNS

1



OF SHOTS= 10

IN CIR

1in = 2

2in = 7

3in = 10

1st = 2.222

2nd = 1.206

3rd = 2.387

CENTROID #

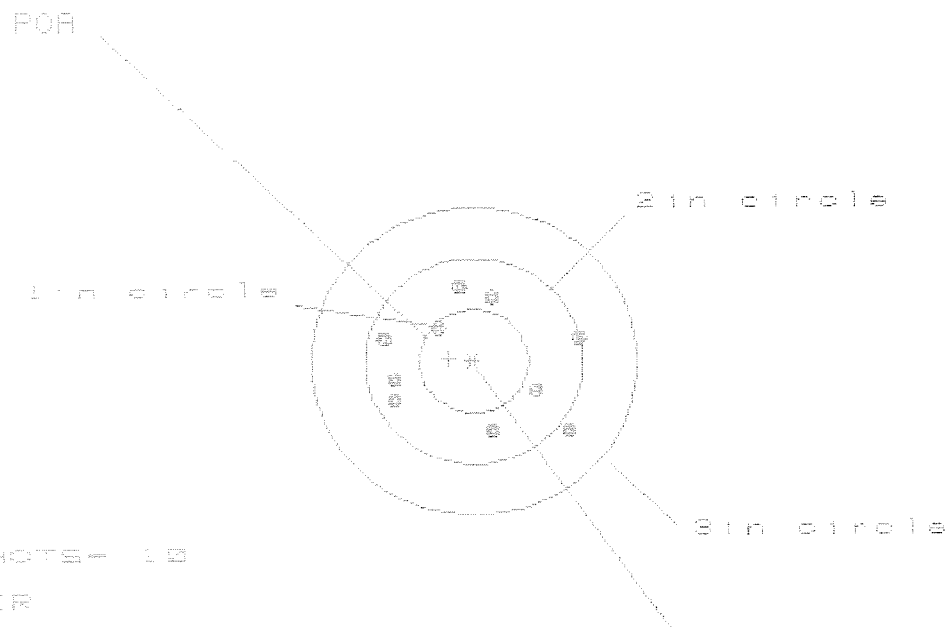
PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.243	.878	.753
MINIMUM X	-1.140	-1.002	-1.007
MAXIMUM Y	.687	.656	.634
MINIMUM Y	-.519	-.550	-.572
CENTROID X	.196	.058	.183
CENTROID Y	.151	.182	.204
POA TO CENTROID in.	.248	.191	.274
MIN RADIUS	.189	.117	.142
MEAN RADIUS	.794	.740	.683
MAX RADIUS	1.273	1.040	1.158
HORIZONTAL SPREAD	2.383	1.880	1.760
VERTICAL SPREAD	1.206	1.206	1.206
EXTREME SPREAD	2.387	1.899	1.800
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	7		
NUMBER IN THREE INCH CIRCLE =	10		

7 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06349120

CENTERFIRE PATTERNS

2



OF SHOTS- 10

IN CIR

1in = 1

2in = 9

3in = 10

HS= 1.758

VS= 1.458

GS= 1.918

CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.924	1.016	.833
MINIMUM X	-.834	-.742	-.615
MAXIMUM Y	.740	.661	.677
MINIMUM Y	-.718	-.740	-.724
CENTROID X	.232	.140	.013
CENTROID Y	-.024	.056	.040
POR TO CENTROID in.	.233	.151	.042
MIN RADIUS	.476	.365	.300
MEAN RADIUS	.770	.716	.657
MAX RADIUS	1.094	1.024	.902
HORIZONTAL SPREAD	1.758	1.758	1.448
VERTICAL SPREAD	1.458	1.401	1.401
EXTREME SPREAD	1.918	1.758	1.540
NUMBER IN ONE INCH CIRCLE =		1	
NUMBER IN TWO INCH CIRCLE =		9	
NUMBER IN THREE INCH CIRCLE =		10	

7 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06345120

CENTERFIRE PATTERNS

3

POR

1 in circle

2 in circle

3 in circle

OF SHOTS = 10

IN CIR

1 in = 2

2 in = 8

3 in = 10

HS = 1.676

VS = 2.069

CS = 2.069

CENTROID *

PATTERN #

3

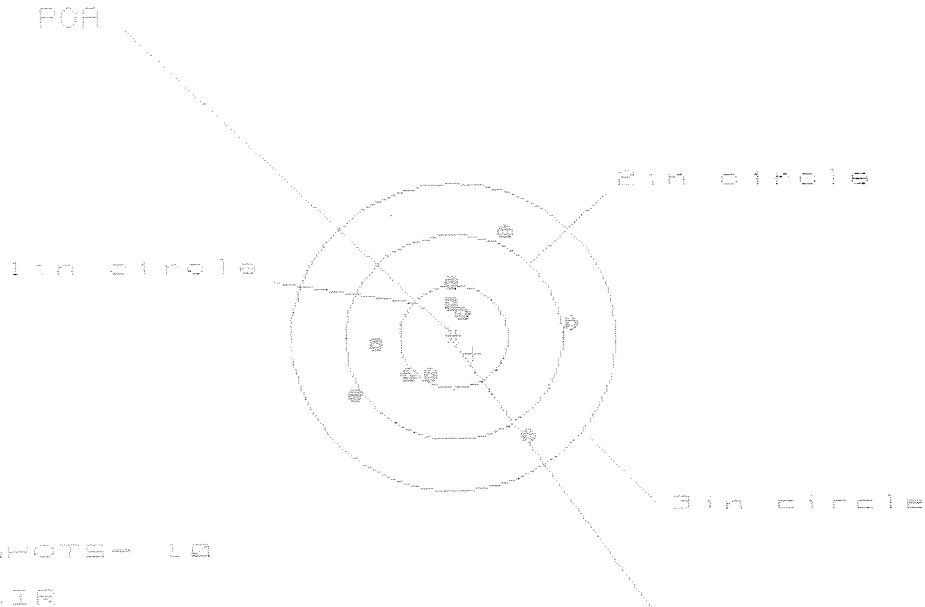
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.771	.755	.740
MINIMUM X	:	-.905	-.921	-.938
MAXIMUM Y	:	.984	.863	.685
MINIMUM Y	:	-1.085	-.459	-.351
CENTROID X	:	.285	.221	.236
CENTROID Y	:	.155	.276	.169
POR TO CENTROID in.	:	.257	.353	.298
MIN RADIUS	:	.065	.123	.034
MEAN RADIUS	:	.648	.604	.545
MAX RADIUS	:	1.095	.947	.992
HORIZONTAL SPREAD	:	1.676	1.676	1.676
VERTICAL SPREAD	:	2.069	1.322	1.036
EXTREME SPREAD	:	2.069	1.744	1.744
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		9	
NUMBER IN THREE INCH CIRCLE	=		10	

7 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06345120

CENTERFIRE PATTERNS

4



OF SHOTS- 10

IN CIR

1 in = 3

2 in = 6

3 in = 10

HE= 1.978

VB= 1.976

CE= 2.112

CENTROID *

PATTERN #

4

SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.053	1.132	1.201
MINIMUM X	-.926	-.847	-.778
MAXIMUM Y	1.022	.916	.532
MINIMUM Y	-.954	-.662	-.547
CENTROID X	-.176	-.257	-.326
CENTROID Y	.168	.274	.159
POA TO CENTROID (in)	.245	.375	.363
MIN RADIUS	.203	.170	.294
MEAN RADIUS	.721	.646	.592
MAX RADIUS	1.187	1.133	1.213
HORIZONTAL SPREAD	1.979	1.979	1.979
VERTICAL SPREAD	1.976	1.578	1.879
EXTREME SPREAD	2.112	2.112	2.105
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		6	
NUMBER IN THREE INCH CIRCLE =		10	

7 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06349120

CENTERFIRE PATTERNS

5

POF

1in circle

2in circle

3in circle

OF SHOTS = 10

IN CIR

1in = 2

2in = 7

3in = 10

MS = 1.480

VS = 2.238

GS = 2.265

CENTROID *

PATTERN #

5

SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.845	.579	.564
MINIMUM X	:	-.934	-.901	-.916
MAXIMUM Y	:	1.100	.973	1.017
MINIMUM Y	:	-1.138	-.935	-.813
CENTROID X	:	.108	.075	.090
CENTROID Y	:	-.058	.069	-.053
POF TO CENTROID in.	:	.123	.102	.104
MIN RADIUS	:	.391	.467	.409
MEAN RADIUS	:	.853	.815	.781
MAX RADIUS	:	1.179	.992	1.093
HORIZONTAL SPREAD	:	1.480	1.480	1.480
VERTICAL SPREAD	:	2.238	1.908	1.830
EXTREME SPREAD	:	2.285	1.954	1.860
NUMBER IN ONE INCH CIRCLE =			2	
NUMBER IN TWO INCH CIRCLE =			7	
NUMBER IN THREE INCH CIRCLE =			10	