

C6587562

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: C6587562.__0
FILE DATE AND TIME: 11/01/2007 21:45

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.137
The Average Y Centroid of the Five Target Set:	0.162
The Average Point of Impact of the Five Target Set:	0.212
The Average Mean Radius of the Five Target Set:	0.826
The Distance from POA to Centroid Target #1:	0.473
The Distance from Centroid Target #2 to Centroid Target #1:	0.478
The Distance from Centroid Target #3 to Centroid Target #1:	0.331
The Distance from Centroid Target #4 to Centroid Target #1:	0.472
The Distance from Centroid Target #5 to Centroid Target #1:	0.515

SERIAL NUMBER: C6587562.___0

TARGET NUMBER: 1

FILE DATE: 11/01/2007

FILE TIME: 21:45

X CENTROID: 0.471

Y CENTROID: 0.048

POA TO CENTROID: 0.473

HORZ SPREAD: 3.948

VERT SPREAD: 1.036

GROUP SPREAD: 3.972

MIN RADIUS: 0.148

MAX RADIUS: 2.054

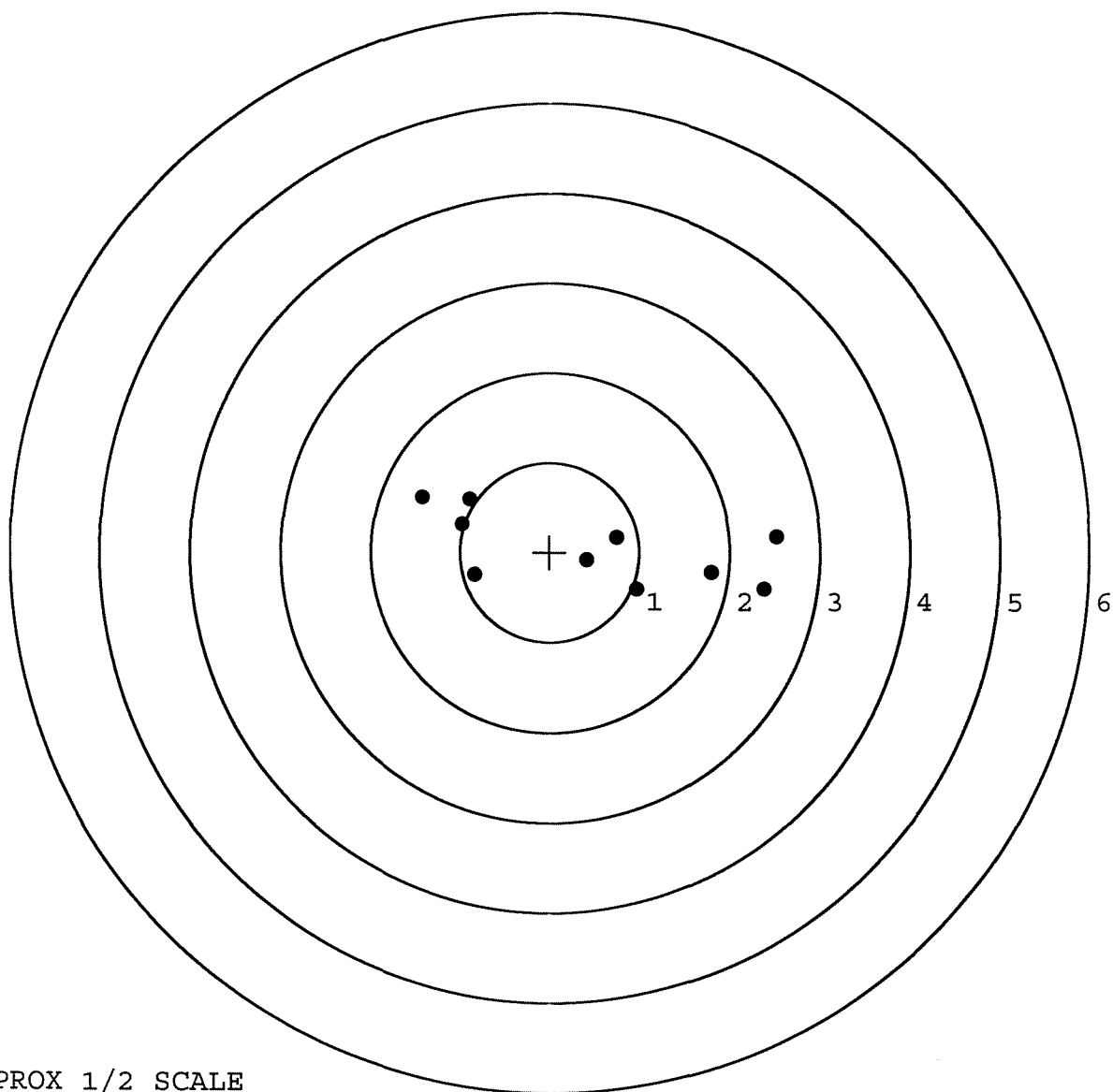
MEAN RADIUS: 1.276

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 3

in 3 IN DIAMETER: 7

POINT#	X	Y
1:	-1.428	0.617
2:	-0.888	0.597
3:	-0.974	0.316
4:	-0.839	-0.251
5:	0.419	-0.091
6:	0.753	0.162
7:	0.971	-0.419
8:	1.794	-0.222
9:	2.378	-0.409
10:	2.520	0.178



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587562. __0

TARGET NUMBER: 2

FILE DATE: 11/01/2007

FILE TIME: 21:45

X CENTROID: 0.042

Y CENTROID: 0.261

POA TO CENTROID: 0.264

HORZ SPREAD: 2.536

VERT SPREAD: 1.812

GROUP SPREAD: 2.753

MIN RADIUS: 0.158

MAX RADIUS: 1.420

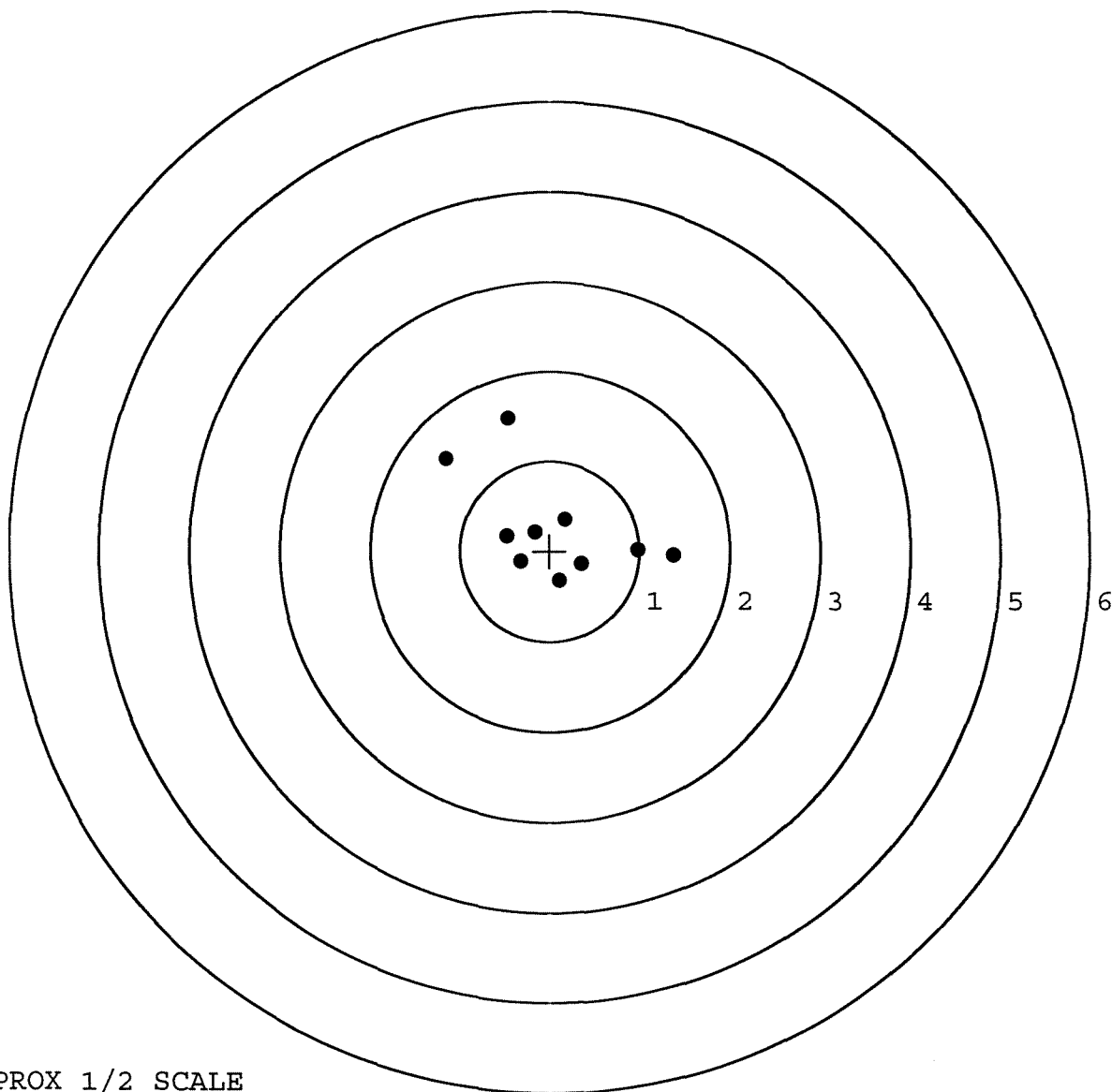
MEAN RADIUS: 0.761

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-1.156	1.023
2:	-0.460	1.479
3:	0.981	0.014
4:	1.380	-0.048
5:	0.113	-0.333
6:	0.355	-0.142
7:	0.174	0.348
8:	-0.166	0.211
9:	-0.477	0.168
10:	-0.322	-0.115



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587562. 0

TARGET NUMBER: 3

FILE DATE: 11/01/2007

FILE TIME: 21:45

X CENTROID: 0.192

Y CENTROID: 0.226

POA TO CENTROID: 0.296

HORZ SPREAD: 1.771

VERT SPREAD: 2.284

GROUP SPREAD: 2.486

MIN RADIUS: 0.151

MAX RADIUS: 1.529

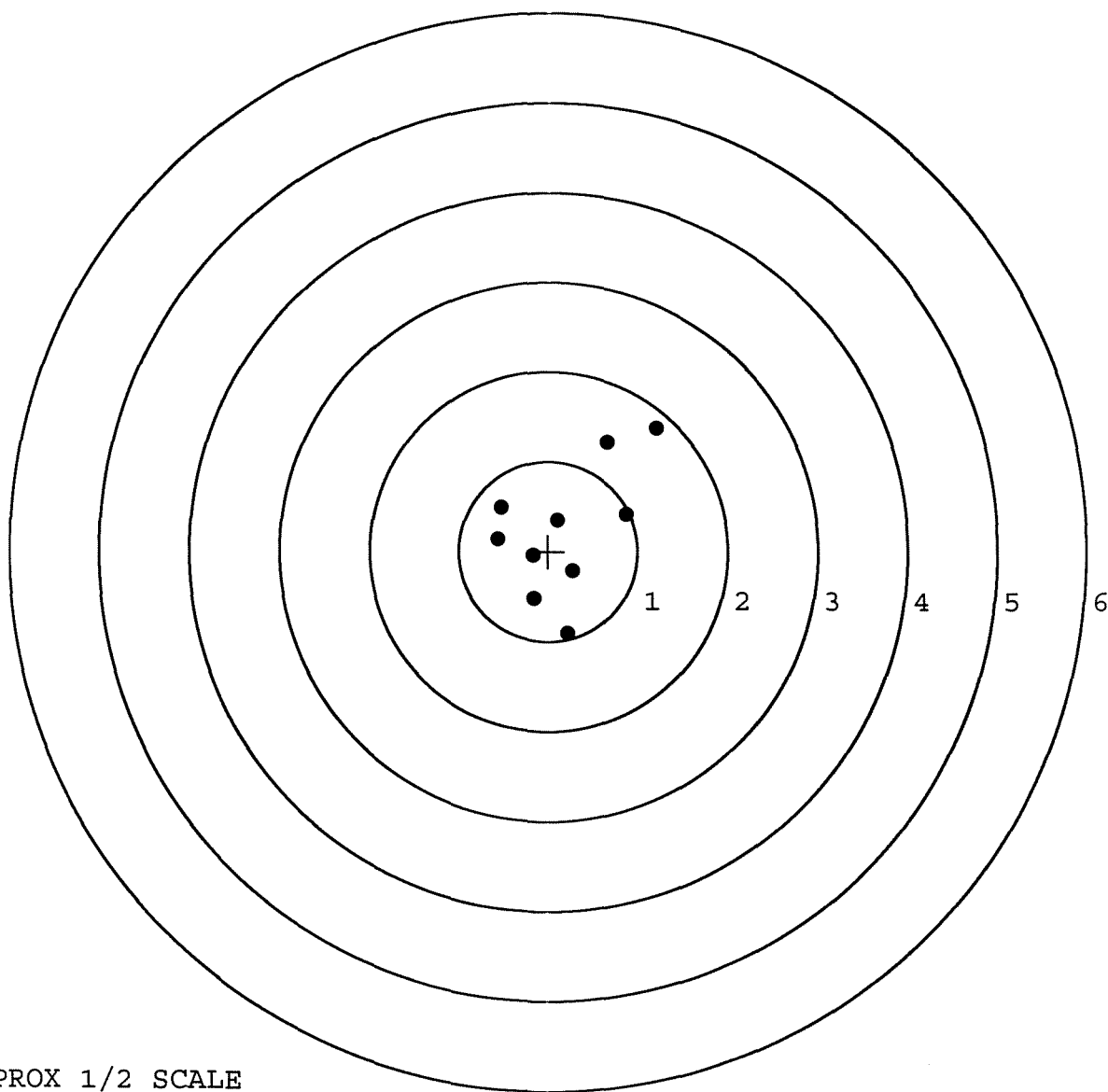
MEAN RADIUS: 0.791

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 9

POINT#	X	Y
1:	-0.532	0.493
2:	-0.565	0.138
3:	-0.170	-0.052
4:	-0.156	-0.533
5:	0.225	-0.914
6:	0.280	-0.226
7:	0.102	0.348
8:	0.868	0.418
9:	0.658	1.219
10:	1.206	1.370



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587562. __0

TARGET NUMBER: 4

FILE DATE: 11/01/2007

FILE TIME: 21:45

X CENTROID: 0.025

Y CENTROID: 0.202

POA TO CENTROID: 0.204

HORZ SPREAD: 1.618

VERT SPREAD: 1.905

GROUP SPREAD: 2.230

MIN RADIUS: 0.308

MAX RADIUS: 1.350

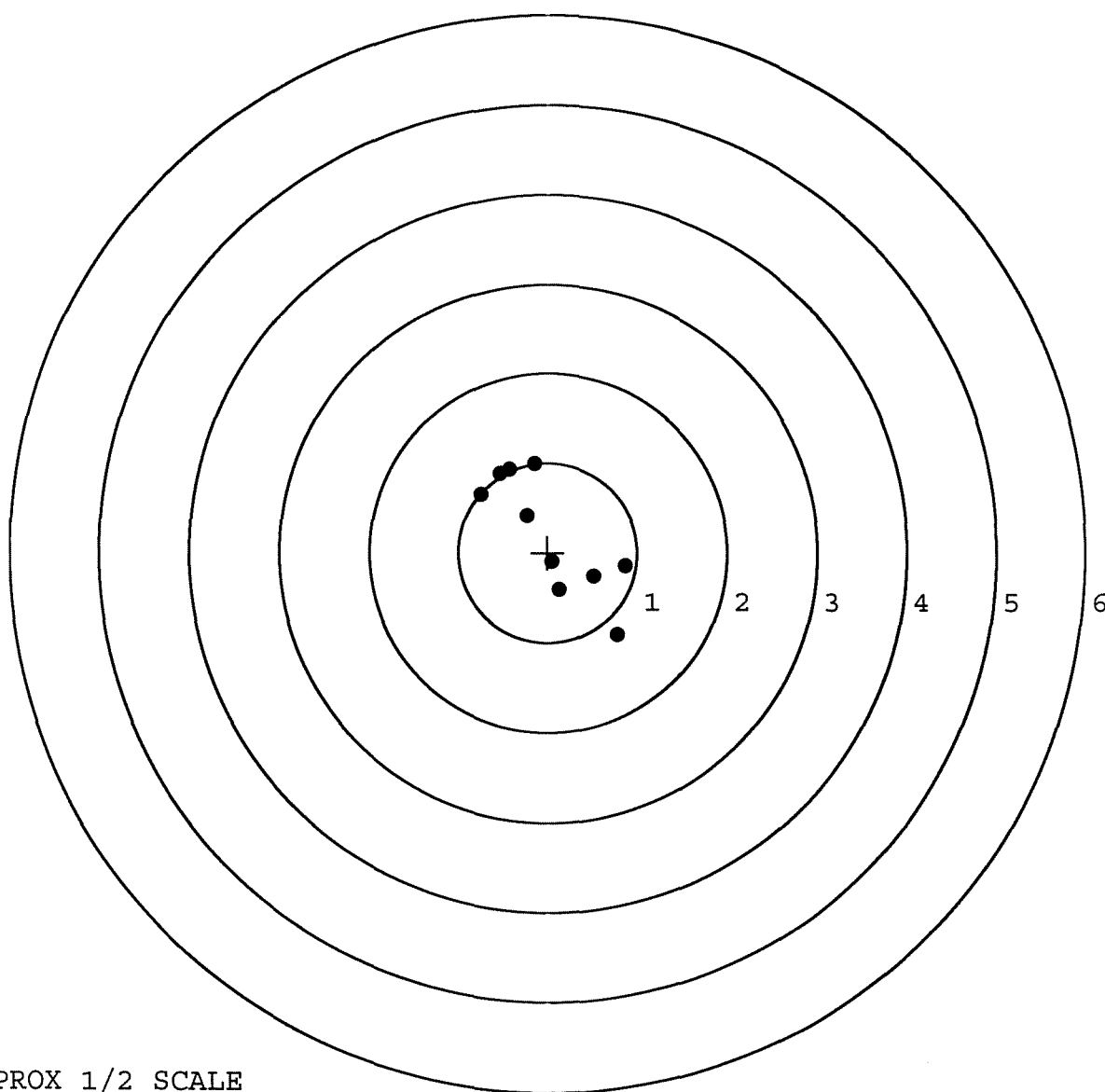
MEAN RADIUS: 0.766

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

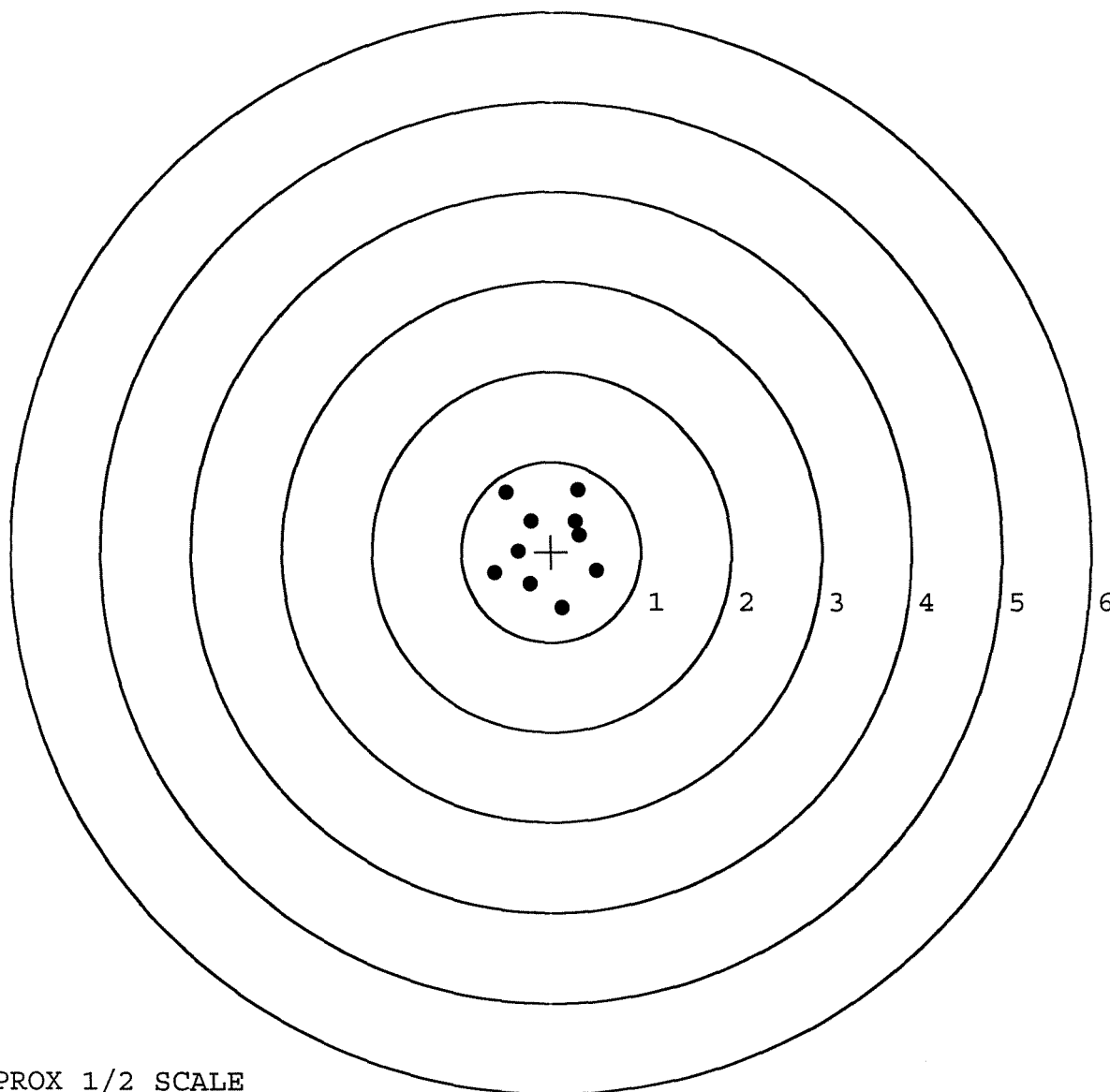
POINT#	X	Y
1:	-0.748	0.651
2:	-0.539	0.881
3:	-0.149	0.991
4:	-0.238	0.413
5:	0.047	-0.105
6:	0.132	-0.416
7:	0.517	-0.262
8:	0.870	-0.148
9:	0.784	-0.914
10:	-0.429	0.930



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587562. __0
TARGET NUMBER: 5
FILE DATE: 11/01/2007
FILE TIME: 21:45

		<u>POINT#</u>	<u>X</u>	<u>Y</u>
X CENTROID:	-0.044	1:	-0.505	0.656
Y CENTROID:	0.075	2:	-0.225	0.339
POA TO CENTROID:	0.087	3:	-0.370	-0.004
HORZ SPREAD:	1.142	4:	-0.633	-0.246
VERT SPREAD:	1.307	5:	-0.238	-0.363
GROUP SPREAD:	1.429	6:	0.127	-0.626
MIN RADIUS:	0.320	7:	0.509	-0.207
MAX RADIUS:	0.742	8:	0.314	0.185
MEAN RADIUS:	0.538	9:	0.278	0.337
# IN 1 IN DIAMETER:	5	10:	0.306	0.681
# IN 2 IN DIAMETER:	10			
# in 3 IN DIAMETER:	10			



TARGET APPROX 1/2 SCALE

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

R & E NUMBER	135189			
SERIAL NUMBER	C6587562			
LOG-IN DATE	16-10-07			
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	MAGNA-FLUX	10-17-07	RTZ
612	MAGNAFLUX		10-22-07	JB
510	DRILL AND TAP		10-17-07	TRW
615	ROLLMARK CALIBER	OPERATOR JB	10-18-07	CW
618	ROTO-BLAST		10-22-07	JB
620	APPLY COATINGS		10-25-07	CW
625	FINAL ASSEMBLY		11-1-07	RTZ
640	FUNCTION TEST AND	PASS FAIL	11/1/07	mm
650	TARGET	PASS FAIL	11/1/07	mm
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION	11-1-07	SD
670	FINAL INSPECTION		11-19-07	BA
	A) HEADSPACE	PASS FAIL	11-19-07	BA
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	2.91 2.91 2.93 2.94 2.92 11-6-07	BA
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS MAX	40 40 35 11-6-07	BA
	G) SAFETY OFF FORCE	2 LBS MIN	20 20 20 11-6-07	BA
	I) FIRING PIN INDENT	.020	.022 .022 .022 11-6-07	BA
690	PACK		11-19-07	BA

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

Remington®

MODEL 700™ M24

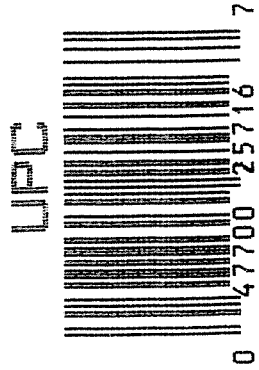
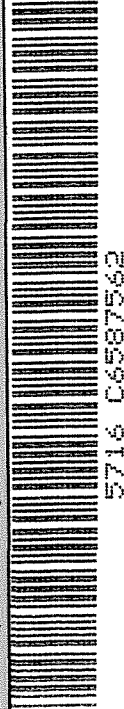
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada Marque Deposee.

UPPONT
REG. U.S. PAT. & T.M. OFF.

SERIAL NO.
C6587562

ORDER NO.
5716

Ø1



CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6587562

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		10/19/90	KE
600	Proof		10/19/90	KE
607	Check Headspace		10/19/90	KE
610	Dis-assemble Gun		10/19/90	KE
612	Magnaflux Barrel Action		10/22/90	KR
	Magnaflux Bolt		10/22/90	KR
615	Rollmark Caliber		10/22/90	GL
617	Drill and Tap Sight Holes		10/23/90	KB
618	Polish Barrel RB		10/24/90	WB
620	Apply Coatings (Barrel Action)		11-7-90	TJA
	Apply Coating (Bolt)			
625	Final Assembly		11/8/90	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		11/8/90	KS
	E) Adjust Trigger Pull to Min Setting and Stake		11-10-90	JL

op. #	OP. NAME	READINGS				DATE	INIT
625 cont.	F) Safety On Force	4.75	4.25	4.25	11-9-90	KJ	
	G) Safety Off Force	2.75	2.75	2.75	11-9-90	KJ	
	H) Trigger Pull Test & Retainability				11-10-90	JH	
	I) Firing Pin Indent	0.21	0.21	0.21	11-9-90	KJ	
	J) Assemble Stock				11/14/90	KS	
	K) Assemble Swivel Studs				11/19/90	JS	
	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				11-13-90	KT	
	A) Time				11-13-90	KT	
	B) Malfunctions				11-13-90	KT	
	C) Pierced Primers				11-13-90	KT	
	D) Optical Clarity of Scope				11-13-90	KT	
645	Inspect for Live Ammo				11-13-90	KT	
655	Final Inspection				11/19/90	JS	
	A) Headspace				11/19/90	JS	
	B) Trigger Pull	255	260	259	248	11/19/90	JS
	C) Function				11/19/90	JS	
660	Pack				12-17-90	DH	

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50#+.50#

3.00#+.75#

4.00#+1.00#

SERIAL NO. C6587562

DATE 11-10-90

TESTER JL

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.28	2.44	2.47	2.55	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.38	2.41	2.46	2.60	
PULL #3	2.41	2.47	2.46	2.60	
PULL #4	2.39	2.26	2.48	2.59	
PULL #5	2.38	2.44	2.46	2.48	
TOTAL	11.84	12.02	12.33		
AVG.	2.368	2.404	2.466		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.32	3.22		
PULL #2	3.25	3.26		
PULL #3	3.29	3.27		
PULL #4	3.30	3.32		
PULL #5	3.30	3.32		
TOTAL	16.46	16.39		
AVG.	3.292	3.278		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.39	4.36		4.45
PULL #2	4.37	4.41		4.46
PULL #3	4.39	4.38		4.43
PULL #4	4.41	4.40		4.50
PULL #5	4.42	4.42		4.45
TOTAL	21.98	21.97		22.29
AVG.	4.396	4.394		4.458

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6587562
14 Nov 1990

CENTROIDAL DISTANCES

Ø TO	1	.383635
1 TO	2	.169425
1 TO	3	.161199
1 TO	4	.566817
1 TO	5	.277397

4₂ <----POA

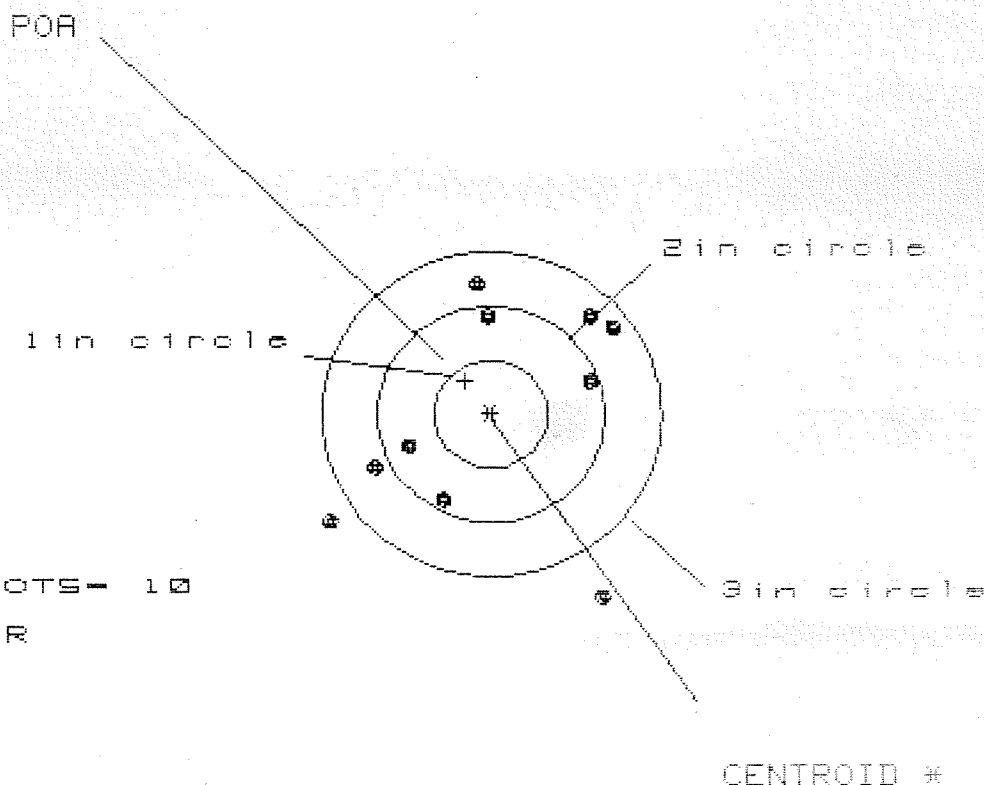
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0662
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.2074
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .217709

THE AMR FOR THIS RIFLE IS: 1.203

14 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8587582

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1in = 0

2in = 4

3in = 8

HS= 2.512

VS= 2.852

GS= 3.072

CENTROID #

PATTERN #	:	1	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.089	1.197	1.032
MINIMUM X	:	-1.423	-1.315	-1.127
MAXIMUM Y	:	1.201	1.018	.873
MINIMUM Y	:	-1.651	-1.158	-1.070
CENTROID X	:	.226	.118	.282
CENTROID Y	:	-.310	-.127	.018
POA TO CENTROID in.	:	.384	.173	.283
MIN RADIUS	:	.790	.704	.560
MEAN RADIUS	:	1.208	1.105	.993
MAX RADIUS	:	1.914	1.752	1.395
HORIZONTAL SPREAD	:	2.512	2.512	2.159
VERTICAL SPREAD	:	2.852	2.176	1.943
EXTREME SPREAD	:	3.072	3.072	2.515
NUMBER IN ONE INCH CIRCLE	=	0		
NUMBER IN TWO INCH CIRCLE	=	4		
NUMBER IN THREE INCH CIRCLE	=	8		

14 Nov 1990

FILE:/PATTERNING/CENTERFIRE_PATT/C6587562

CENTERFIRE PATTERNS

2

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS- 10

IN CIR

1in = 2

2in = 5

3in = 6

HS= 5.840

VS= 3.993

GS= 5.896

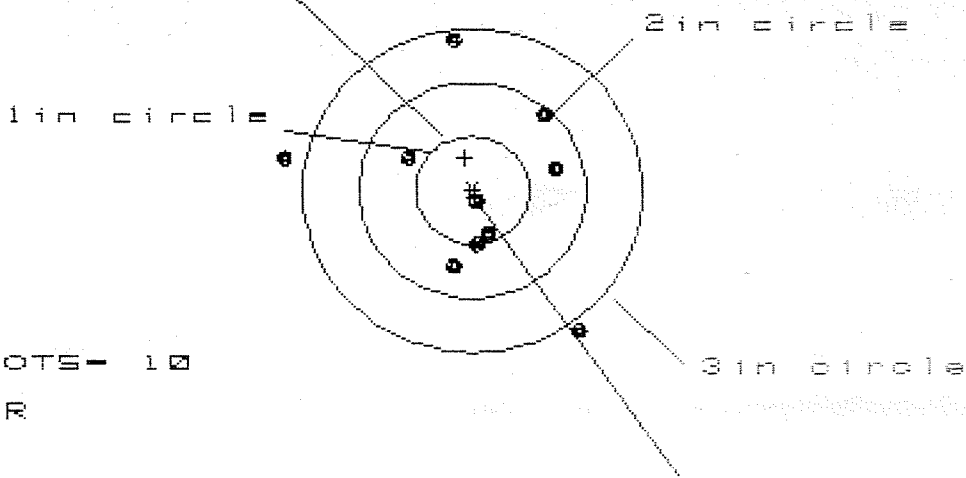
PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	2.351	1.963	1.748
MINIMUM X	:	-3.489	-1.717	-.831
MAXIMUM Y	:	2.833	2.799	1.073
MINIMUM Y	:	-1.160	-1.194	-.844
CENTROID X	:	.337	.725	.940
CENTROID Y	:	-.182	-.148	-.498
POA TO CENTROID in.	:	.383	.740	1.063
MIN RADIUS	:	.052	.337	.255
MEAN RADIUS	:	1.492	1.284	1.000
MAX RADIUS	:	3.502	3.284	1.922
HORIZONTAL SPREAD	:	5.840	3.680	2.579
VERTICAL SPREAD	:	3.993	3.993	1.917
EXTREME SPREAD	:	5.896	5.397	3.051
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		6	

14 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8587562

CENTERFIRE PATTERNS # 3

POA



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 7

3 in = 8

HS= 2.620

VS= 2.702

GS= 3.056

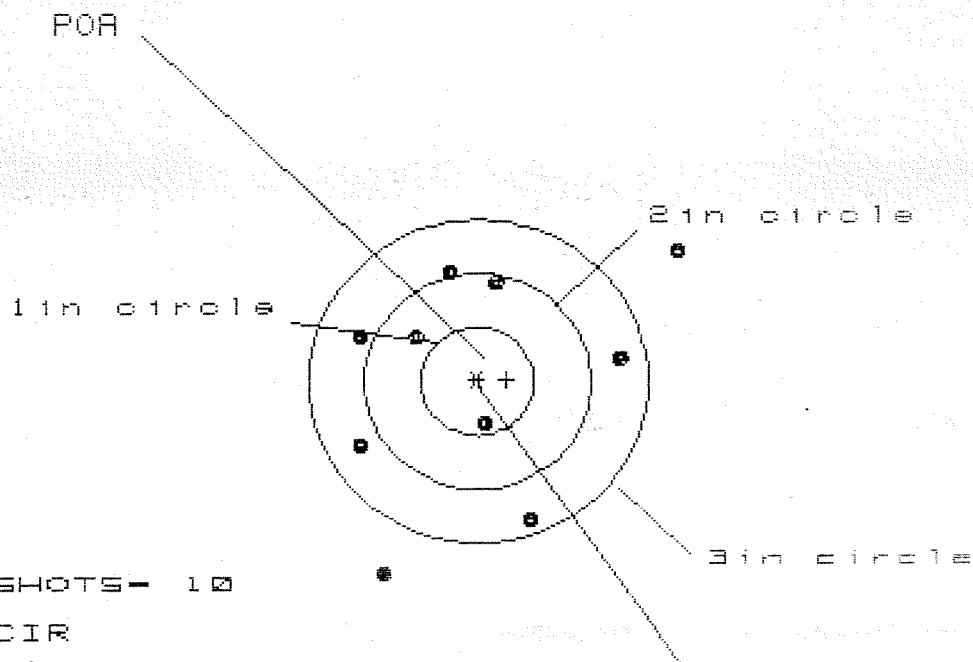
CENTROID *

PATTERN #	:	3	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.966	.782	.603
MINIMUM X	:	-1.654	-.732	-.634
MAXIMUM Y	:	1.431	1.465	1.310
MINIMUM Y	:	-1.271	-1.237	-.841
CENTROID X	:	.065	.249	.151
CENTROID Y	:	-.302	-.336	-.181
POA TO CENTROID in.	:	.309	.418	.236
MIN RADIUS	:	.099	.110	.183
MEAN RADIUS	:	.885	.781	.710
MAX RADIUS	:	1.681	1.507	1.335
HORIZONTAL SPREAD	:	2.620	1.514	1.237
VERTICAL SPREAD	:	2.702	2.702	2.151
EXTREME SPREAD	:	3.056	2.930	2.152
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		8	

14 May 1990

FILE:/PATTERNING/CENTERFIRE_PATT/C8587562

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1in = 1

2in = 3

3in = 6

HS= 2.863

VS= 3.018

GS= 3.982

CENTROID *

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.779	1.500	1.423
MINIMUM X	:	-1.084	-.887	-.964
MAXIMUM Y	:	1.186	1.159	.946
MINIMUM Y	:	-1.832	-1.700	-1.390
CENTROID X	:	-.258	-.455	-.378
CENTROID Y	:	-.015	-.147	.066
POA TO CENTROID in.	:	.258	.479	.383
MIN RADIUS	:	.405	.384	.518
MEAN RADIUS	:	1.226	1.108	.995
MAX RADIUS	:	2.138	1.810	1.523
HORIZONTAL SPREAD	:	2.863	2.387	2.387
VERTICAL SPREAD	:	3.018	2.859	2.336
EXTREME SPREAD	:	3.982	2.942	2.512
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		8	

14 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/08587562

CENTERFIRE PATTERNS

5

POA

1in circle

2in circle

3in circle

OF SHOTS - 10

IN CIR

1in = 0

2in = 3

3in = 7

HS= 2.931

VS= 3.121

GS= 3.231

CENTROID *

PATTERN #

5

SHOTS (BEST OF)

10

9

8

MAXIMUM X : 1.400

1.261

1.052

MINIMUM X : -1.531

-1.670

-1.048

MAXIMUM Y : 1.355

1.158

1.089

MINIMUM Y : -1.766

-.900

-.969

CENTROID X : -.039

.100

.309

CENTROID Y : -.228

-.031

.037

POA TO CENTROID in.: .231

.105

.312

MIN RADIUS : .526

.460

.367

MEAN RADIUS : 1.205

1.067

.944

MAX RADIUS : 2.168

1.759

1.472

HORIZONTAL SPREAD : 2.931

2.931

2.100

VERTICAL SPREAD : 3.121

2.058

2.058

EXTREME SPREAD : 3.231

2.952

2.898

NUMBER IN ONE INCH CIRCLE =

0

NUMBER IN TWO INCH CIRCLE =

3

NUMBER IN THREE INCH CIRCLE =

7