

C6225560

MODEL 700TM M24

Model SMSTM

Action

Barrel Length

Capacity

Order No. 5716

*Includes 1 in chamber.

Remington

Repair Inquiry

Repair Number: RE00112701

Serial: C6225560 Model M24 SWS Center Fire
Caliber: 7.62 NATO

Repairman:

Status: Closed 5/23/2006 11:37:11 AM

Verify Repair

Address Information

Customer

☒ Received From

Return To

☐ Received From

Name: DEPARTMENT OF THE ARMY

DEPARTMENT OF THE ARMY

Address 1: A COMPANY 2ND BATTALION

A COMPANY 2ND BATTALION

Address 2: 7TH SPECIAL FORCES GROUP

PO Box:

7TH SPECIAL FORCES GROUP

PO Box:

City: FORT BRAGG

FORT BRAGG

State: NC

Zip Code: 28310

Country: US

State: NC

Zip Code: 28310

Country: US

FFL:

Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

Contact Information

Phone: NA

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
A045	Bi Pod	1
A057	Fit and Rear Sgt Base	1

Repair Search

Refresh

Close

naglet

5/23/2006

1:24 PM

CAPS

NUM

INS

SCRL

start

3 Micros...

2 Micros...

3 Intern...

Part Search...

Arms Servi...

1:24 PM

Serial Number:

C6225560

Model: M24 SWS



RE00112701

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6225560.___0
FILE DATE AND TIME: 06/06/2006 16:56

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.219
The Average Y Centroid of the Five Target Set:	0.121
The Average Point of Impact of the Five Target Set:	0.251
The Average Mean Radius of the Five Target Set:	0.909
The Distance from POA to Centroid Target #1:	0.444
The Distance from Centroid Target #2 to Centroid Target #1:	0.298
The Distance from Centroid Target #3 to Centroid Target #1:	0.469
The Distance from Centroid Target #4 to Centroid Target #1:	0.297
The Distance from Centroid Target #5 to Centroid Target #1:	0.613

BARBER - M24 0051482

SERIAL NUMBER: C6225560. __ 0

TARGET NUMBER: 1

FILE DATE: 06/06/2006

FILE TIME: 16:56

POINT#	X	Y
1:	1.342	2.155
2:	0.279	1.892
3:	0.304	-1.167
4:	0.195	-0.491
5:	0.128	-0.185
6:	-0.562	-0.037
7:	-0.431	0.167
8:	-0.200	0.715
9:	-0.007	0.625
10:	0.556	0.466

X CENTROID: 0.160

Y CENTROID: 0.414

POA TO CENTROID: 0.444

HORZ SPREAD: 1.904

VERT SPREAD: 3.322

GROUP SPREAD: 3.480

MIN RADIUS: 0.269

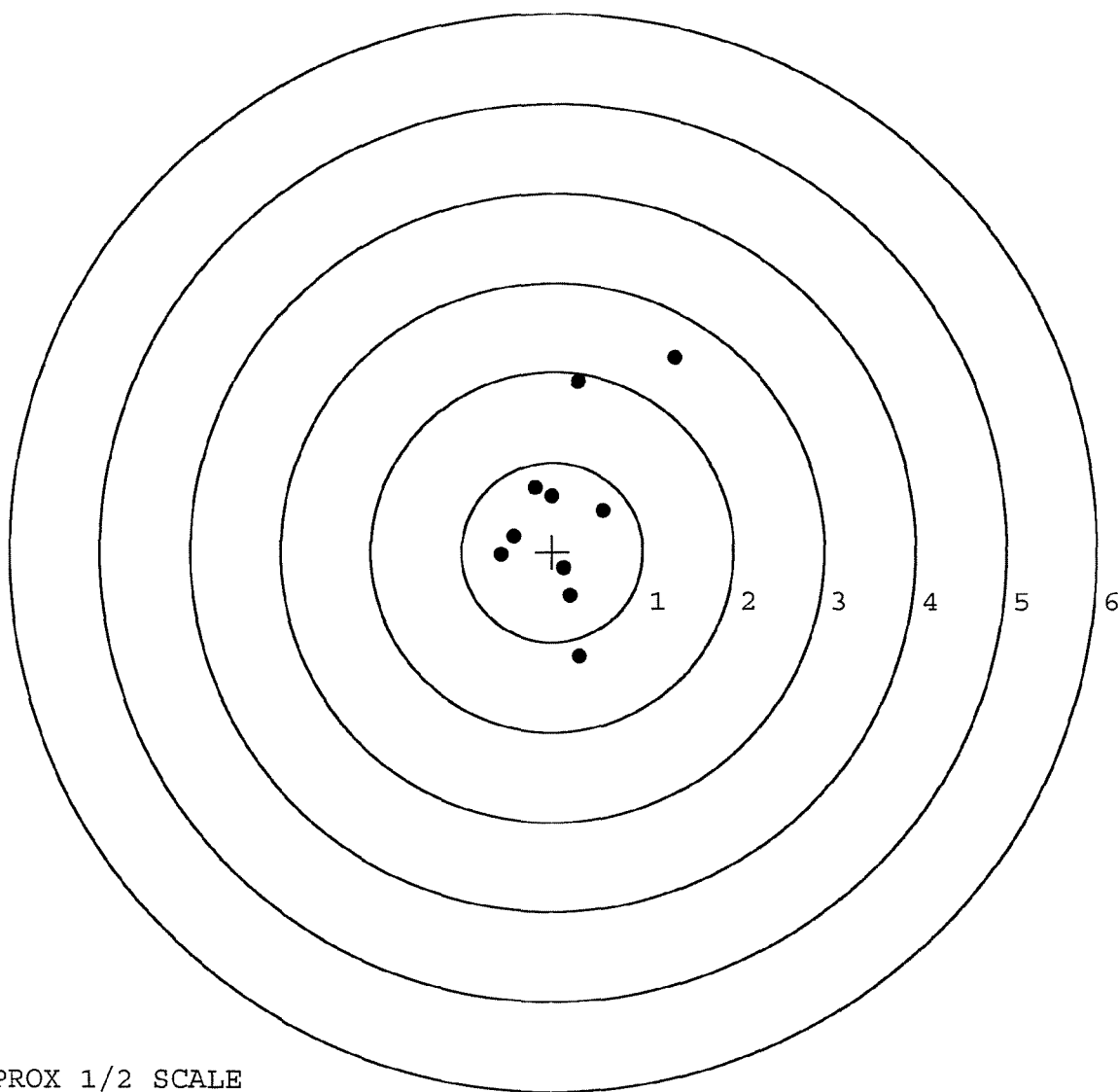
MAX RADIUS: 2.104

MEAN RADIUS: 0.931

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 8

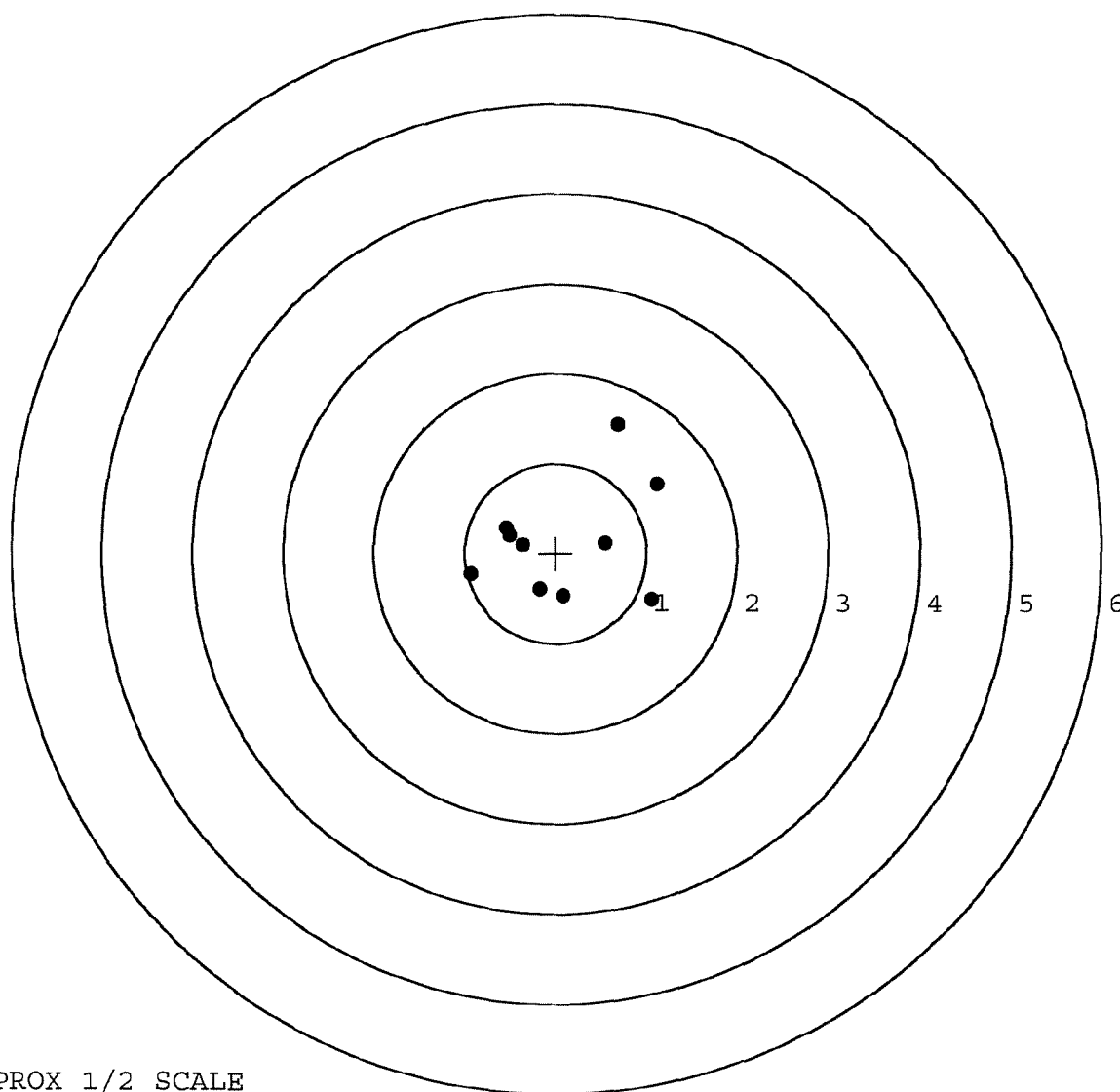


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225560. 0
 TARGET NUMBER: 2
 FILE DATE: 06/06/2006
 FILE TIME: 16:56

POINT#	X	Y
1:	0.681	1.435
2:	1.115	0.769
3:	0.541	0.113
4:	1.058	-0.517
5:	0.080	-0.478
6:	-0.180	-0.412
7:	-0.373	0.093
8:	-0.550	0.282
9:	-0.931	-0.243
10:	-0.513	0.195

X CENTROID: 0.093
 Y CENTROID: 0.124
 POA TO CENTROID: 0.155
 HORZ SPREAD: 2.046
 VERT SPREAD: 1.952
 GROUP SPREAD: 2.327
 MIN RADIUS: 0.448
 MAX RADIUS: 1.437
 MEAN RADIUS: 0.828
 # IN 1 IN DIAMETER: 2
 # IN 2 IN DIAMETER: 6
 # in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

BARBER - M24 0051484

SERIAL NUMBER: C6225560.____0

TARGET NUMBER: 3

FILE DATE: 06/06/2006

FILE TIME: 16:56

POINT#	X	Y
--------	---	---

1:	-0.077	1.610
----	--------	-------

2:	1.754	0.499
----	-------	-------

3:	2.375	0.335
----	-------	-------

4:	1.274	-1.060
----	-------	--------

5:	0.627	0.281
----	-------	-------

6:	0.335	0.526
----	-------	-------

7:	-0.042	-0.546
----	--------	--------

8:	-0.455	-0.874
----	--------	--------

9:	-0.868	0.264
----	--------	-------

10:	0.467	0.342
-----	-------	-------

X CENTROID: 0.539

Y CENTROID: 0.138

POA TO CENTROID: 0.556

HORZ SPREAD: 3.243

VERT SPREAD: 2.670

GROUP SPREAD: 3.244

MIN RADIUS: 0.168

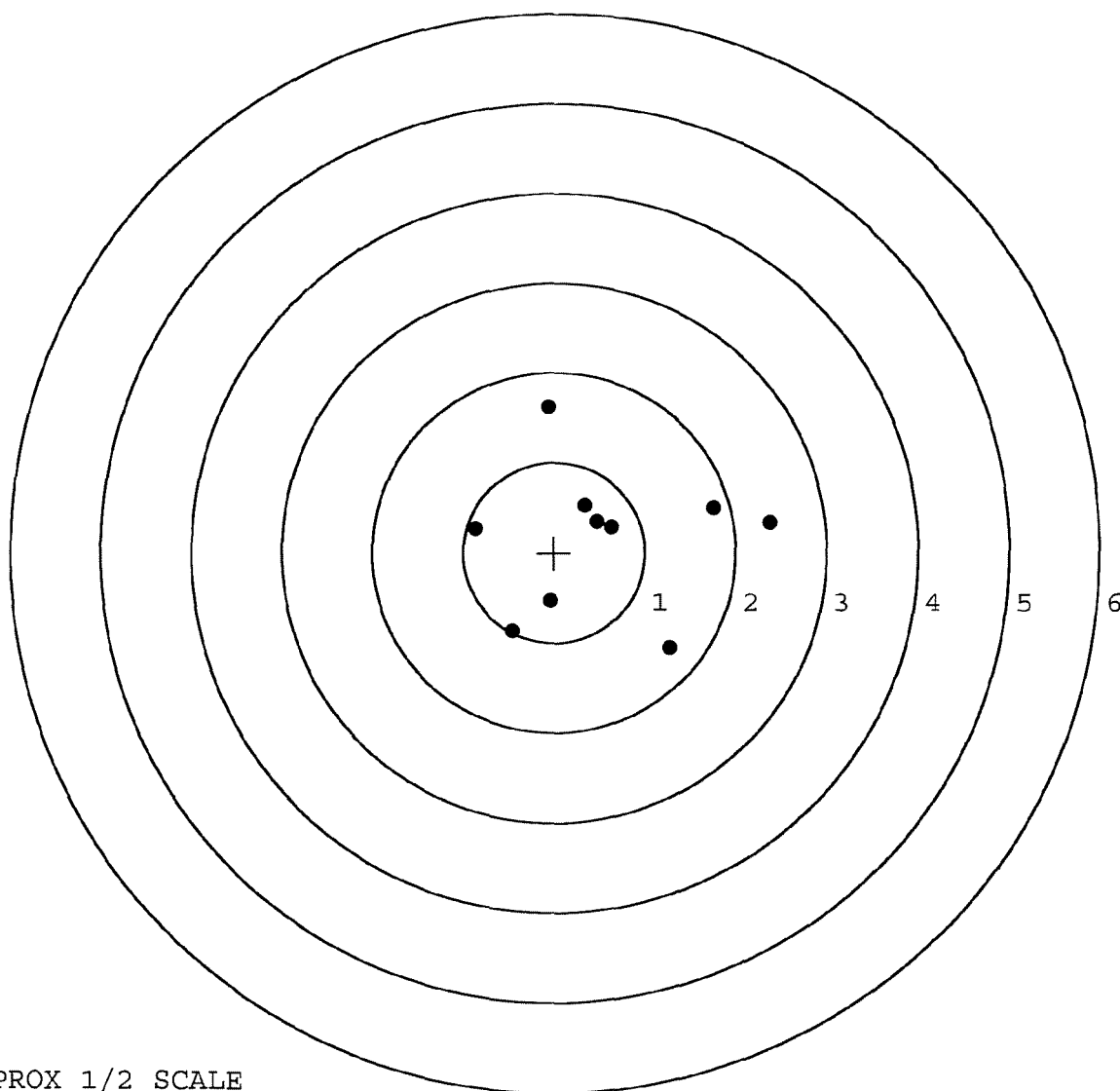
MAX RADIUS: 1.847

MEAN RADIUS: 1.067

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 4

in 3 IN DIAMETER: 8



TARGET APPROX 1/2 SCALE

BARBER - M24 0051485

SERIAL NUMBER: C6225560. __0

TARGET NUMBER: 4

FILE DATE: 06/06/2006

FILE TIME: 16:56

POINT#	X	Y
1:	1.276	1.435
2:	1.178	0.009
3:	0.514	-0.876
4:	0.430	-0.730
5:	0.417	-0.180
6:	-0.079	-0.156
7:	-0.003	0.263
8:	-0.231	0.406
9:	-0.282	0.575
10:	-0.972	0.495

X CENTROID: 0.225

Y CENTROID: 0.124

POA TO CENTROID: 0.257

HORZ SPREAD: 2.248

VERT SPREAD: 2.311

GROUP SPREAD: 2.437

MIN RADIUS: 0.267

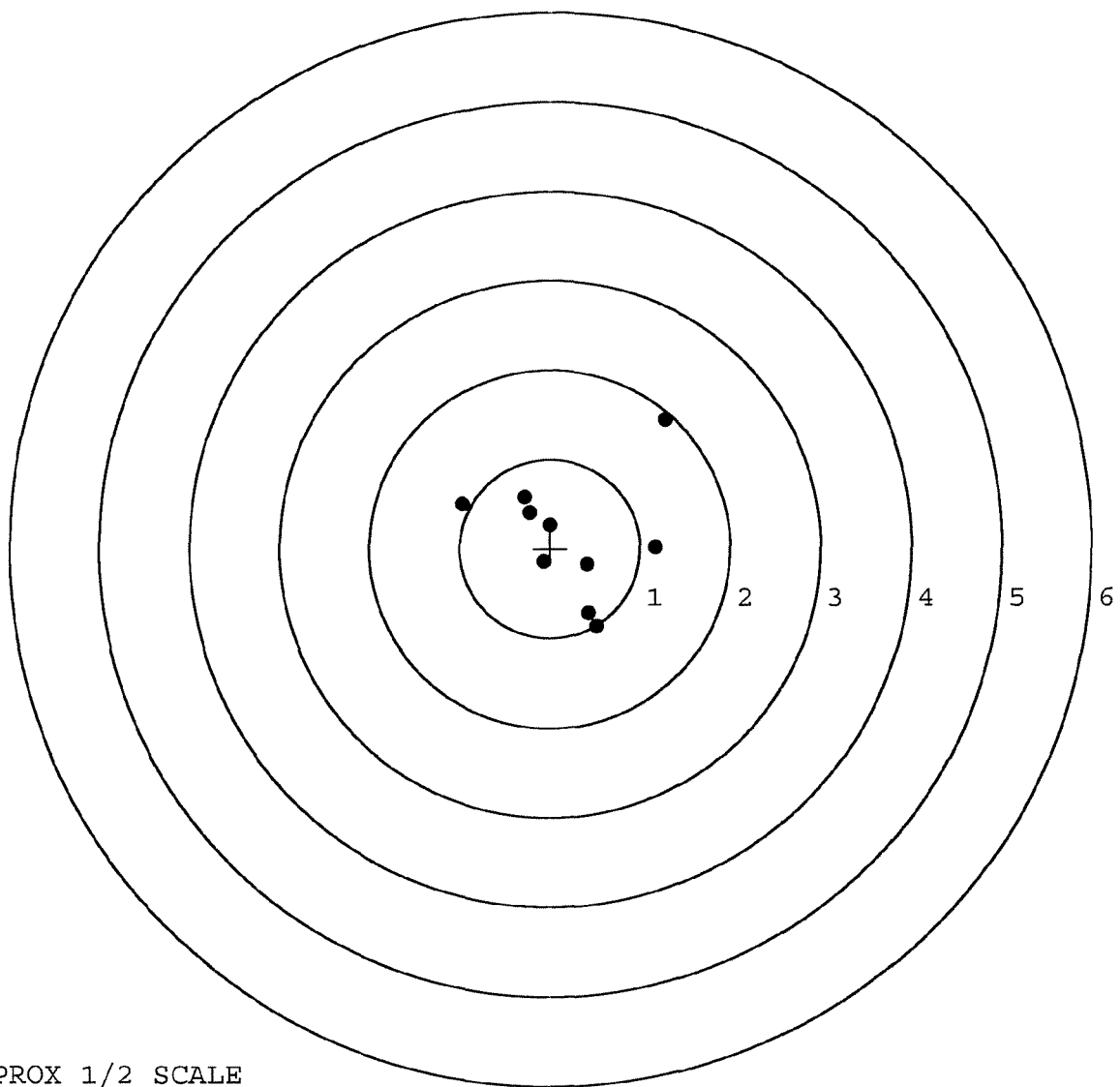
MAX RADIUS: 1.680

MEAN RADIUS: 0.807

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

BARBER - M24 0051486

SERIAL NUMBER: C6225560. __0

TARGET NUMBER: 5

FILE DATE: 06/06/2006

FILE TIME: 16:56

POINT#	X	Y
--------	---	---

1:	0.154	1.112
----	-------	-------

2:	-0.234	0.781
----	--------	-------

3:	0.872	0.443
----	-------	-------

4:	-0.669	0.307
----	--------	-------

5:	-0.367	-0.140
----	--------	--------

6:	0.057	0.126
----	-------	-------

7:	0.231	-0.491
----	-------	--------

8:	0.648	-1.128
----	-------	--------

9:	0.449	-1.187
----	-------	--------

10:	-0.344	-1.757
-----	--------	--------

X CENTROID: 0.080

Y CENTROID: -0.193

POA TO CENTROID: 0.209

HORZ SPREAD: 1.541

VERT SPREAD: 2.869

GROUP SPREAD: 2.912

MIN RADIUS: 0.320

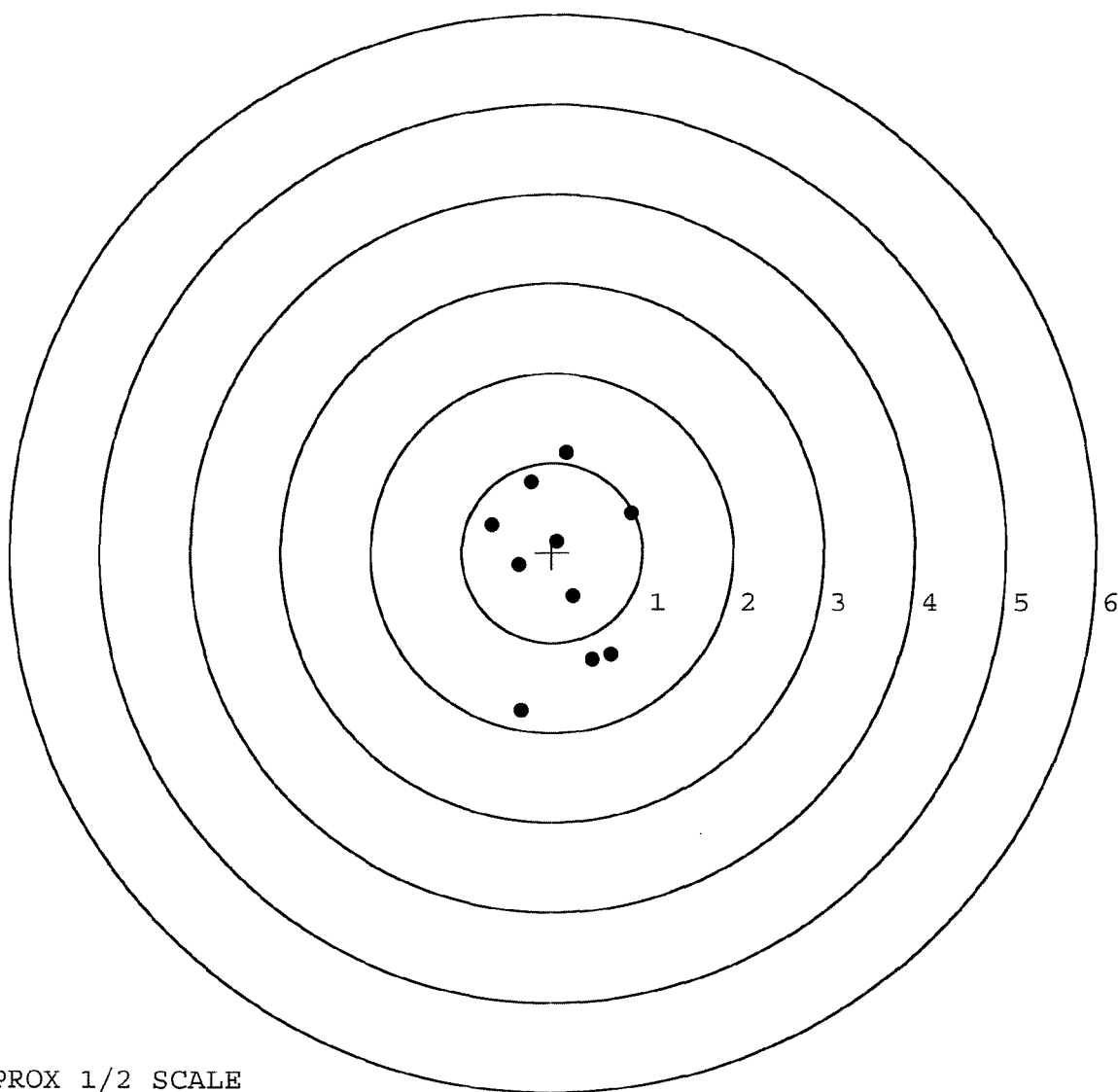
MAX RADIUS: 1.620

MEAN RADIUS: 0.913

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 4

in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

BARBER - M24 0051487
**AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS**

2.50 LBS (plus or minus 0.50 LBS)

3.00 LBS (plus or minus 0.75 LBS)

4.00 LBS (plus or minus 1.00 LBS)

 DATE 5-3-06

 TESTER R.P.

	2.50 LBS INITIAL	2.50 LBS AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50 LBS		COMMENTS
PULL #1	260	261		255	
PULL #2	230	256		258	
PULL #3	262	261		248	
PULL #4	248	242		253	
PULL #5	240	251		252	
TOTAL	1240	1271		1266	
AVERAGE	248	254		253	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES		COMMENTS
PULL #1	313	326		
PULL #2	322	326		
PULL #3	315	313		
PULL #4	302	307		
PULL #5	302	315		
TOTAL	1554	1587		
AVERAGE	310	317		

	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	413	411		421
PULL #2	400	401		421
PULL #3	405	405		402
PULL #4	407	403		402
PULL #5	410	412		419
TOTAL	2035	2032		2065
AVERAGE	407	406		413

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

R & E NUMBER	112701			
SERIAL NUMBER	C6225568			
LOG-IN DATE	5-23-06			
OPERATION #	OPERATION NAME		DATE	INITIAL
500	DIS-ASSEMBLE GUN		5-24-06	RTZ
505	RE-BARREL		5-26-06	RTZ
560	ASSEMBLE		5-30-06	RTZ
600	PROOF	MAGNA - FLUX	5-30-06	TRW
605	CHECK HEADSPACE	INSPECTED	5-30-06	TRW
610	DIS-ASSEMBLE GUN	JUN 02 2006	6-1-06	RTZ
612	MAGNAFLUX	OPERATOR <u>APD</u>	6-2-06	APD
510	DRILL AND TAP		6-1-06	TRW
615	ROLLMARK CALIBER		6-2-06	CW
618	ROTO-BLAST		6-2-06	CB
620	APPLY COATINGS		6-5-06	TRW
625	FINAL ASSEMBLY		6-6-06	RTZ
640	FUNCTION TEST AND	(PASS) FAIL	6-6-06	L.P.D.
650	TARGET	(PASS) FAIL	6-6-06	L.P.D.
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
670	FINAL INSPECTION		6-8-06	AC
	A) HEADSPACE	(PASS) FAIL	6-8-06	AC
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	2.36 2.30 2.13 2.24 2.26 6-8-06	DA
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS MAX	5.0 5.0 5.0 6-8-06	DA
	G) SAFETY OFF FORCE	2 LBS MIN	2.0 2.0 2.0 6-8-06	DA
	I) FIRING PIN INDENT	.020	1.021 1.021 1.022 6-8-06	DA
690	PACK		6-9-06	DA

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

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

MODEL 700TM M24

SERIAL NO.
C6225560

ORDER NO.
5716

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

20

5716 C6225560

UPC

0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225560

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	12 9 88 QUALITY AUDIT	88	RW
600	Proof	12 9 88	88	RW
607	Check Headspace	12 9 88	88	RW
610	Dis-assemble Gun	12 9 88	88	RW
612	Magnaflux Barrel Action		12-22-88	PJC.
	Magnaflux Bolt		1-3-89	PJC
615	Rollmark Caliber		4/23/88	WAC.
617	Drill and Tap Sight Holes	12 9 88	88	FB
618	Polish Barrel	12 2 88	88	WJD
620	Apply Coatings (Barrel Action)		1-16-89	JSA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		1/23/89	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		1/23/89	RW
	C) Inspect Ejector Hole for Chamfer		1/23/89	RW
	D) Oil Firing Pin Ass'y		1/23/89	RW
	E) Adjust Trigger Pull to Min Setting and Stake		2/3/89	RW

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	5	5			24 Jan 89	JS
	G) Safety Off Force	2	2	2			24 Jan 89	JS
	H) Trigger Pull Test & Retainability						23 Jan 89	JS
	I) Firing Pin Indent	.0205	.021	.0205			24 Jan 89	JS
	J) Assemble Stock						2/1/89	RW
	K) Assemble Swivel Studs						3 Feb 89	JS
	L) Attach Front and Rear Sight Assemblies						2/1/89	RW
	M) Iron Sight Alignment						2/1/89	RW
	N) Detach Front & Rear Sights & place in numbered container						2/1/89	RW
	O) Attach Scope to Rifle							
	P) Detach & Attach Scope 20 Times						2 Feb 89	JS
640	Gallery Target & Test	50 R	102 L	Retest	2/17/89		2/3/89	K
	A) Time						11	K
	B) Malfunctions			NONE			11	AC
	C) Pierced Primers			NONE			11	AC
	D) Optical Clarity of Scope			OK			2/3/89	AC
645	Inspect for Live Ammo			NONE			2/3/89	AC
655	Final Inspection							
	A) Headspace						3 Feb 89	JS
	B) Trigger Pull	2.54	2.48	2.47	2.44	2.36	3 Feb 89	JS
	C) Function						3 Feb 89	JS
660	Pack						22 Mar 89	JS

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#
3.00# ± .75#
4.00# ± 1.00#

SERIAL NO. 5560DATE 4-4-90TESTER JL

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.25	2.31		2.46	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.30	2.31		2.40	
PULL #3	2.31	2.33		2.50	
PULL #4	2.30	2.33		2.52	
PULL #5	2.57	2.30		2.46	
TOTAL	11.67	11.58		12.34	
AVG.	2.334	2.316		2.468	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.30	3.35		
PULL #2	3.31	3.32		
PULL #3	3.30	3.30		
PULL #4	3.25	3.35		
PULL #5	3.28	3.24		
TOTAL	16.44	16.56		
AVG.	3.288	3.312		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.21	4.32		
PULL #2	4.29	4.38		
PULL #3	4.10	4.48		
PULL #4	4.24	4.50		
PULL #5	4.20	4.51		
TOTAL	21.04	22.19		
AVG.	4.208	4.238		

CENTROIDAL DISTANCE CALCULATIONS
 FOR RIFLE # C6225560
 18 Feb 1989

ORIGINAL TEST

CENTROIDAL DISTANCES

0 TO	1	2.72682
1 TO	2	2.55648
1 TO	3	1.53913
1 TO	4	2.41729
1 TO	5	1.84872

$\begin{matrix} & + \\ 2 & 4 \\ & 5 \\ & 3 \\ & 1 \end{matrix}$
 (----POB

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.1832
 THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -1.101
 THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: 1.11514
 THE AMR FOR THIS RIFLE IS: 1.031

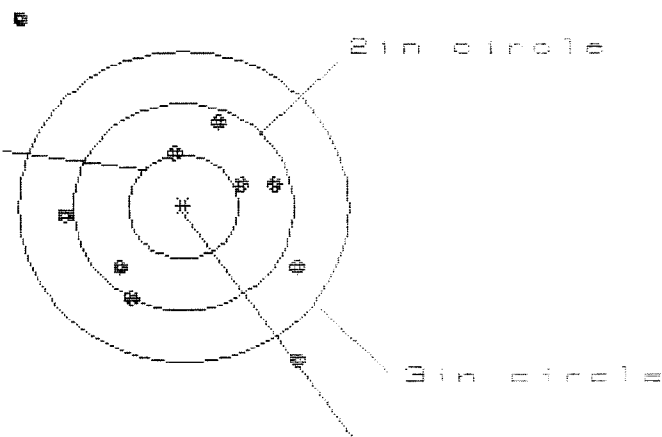
5 Feb 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08225560

CENTERFIRE PATTERNS # 1

POA

OF SHOTS - 10
 # IN CIR
 1 in = 1
 2 in = 5
 3 in = 8
 HS = 2.536
 VS = 3.249
 GS = 4.069

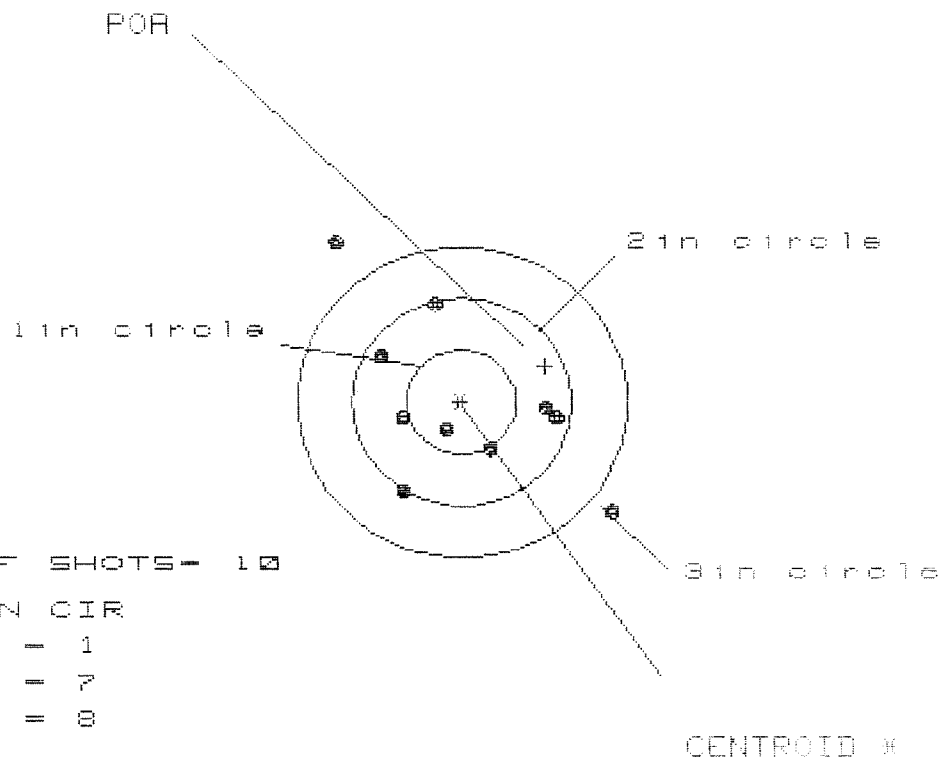


PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.068	.904	1.007
MINIMUM X	:	-1.468	-1.235	-1.132
MAXIMUM Y	:	1.773	1.026	.866
MINIMUM Y	:	-1.476	-1.279	-1.050
CENTROID X	:	.178	.341	.238
CENTROID Y	:	-2.721	-2.918	-2.758
POA TO CENTROID in.	:	2.726	2.937	2.768
MIN RADIUS	:	.477	.593	.524
MEAN RADIUS	:	1.101	.963	.866
MAX RADIUS	:	2.302	1.519	1.134
HORIZONTAL SPREAD	:	2.536	2.139	2.139
VERTICAL SPREAD	:	3.249	2.305	1.724
EXTREME SPREAD	:	4.069	2.475	2.188
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		8	

6 Feb 1989

FILE:/PATTERNING/CENTERFIRE_PATT/06225560

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 7

3 in = 8

HS= 2.410

VS= 2.663

GS= 3.592

CENTROID *

PATTERN #	2
SHOTS (BEST OF)	10
MAXIMUM X	1.323
MINIMUM X	-1.087
MAXIMUM Y	1.576
MINIMUM Y	-1.087
CENTROID X	-0.763
CENTROID Y	-0.344
POA TO CENTROID in.	.837
MIN RADIUS	.314
MEAN RADIUS	.956
MAX RADIUS	1.915
HORIZONTAL SPREAD	2.410
VERTICAL SPREAD	2.663
EXTREME SPREAD	3.592
NUMBER IN ONE INCH CIRCLE =	1
NUMBER IN TWO INCH CIRCLE =	7
NUMBER IN THREE INCH CIRCLE =	8

6 Feb 1989

FILE:/PATTERNING/CENTERFIRE_PATT/06225560

CENTERFIRE PATTERNS # 3

POA

1 in circle

2 in circle

3 in circle

OF SHOTS- 10

IN CIR

1 in - 0

2 in - 4

3 in = 8

HS= 1.720

VS= 3.624

GS= 3.674

CENTROID *

PATTERN #	:	3	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.759	.745	.803
MINIMUM X	:	-.961	-.975	-.917
MAXIMUM Y	:	1.866	1.177	.983
MINIMUM Y	:	-1.758	-1.550	-1.356
CENTROID X	:	-.130	-.116	-.174
CENTROID Y	:	-1.213	-1.421	-1.227
POA TO CENTROID in.	:	1.220	1.425	1.239
MIN RADIUS	:	.739	.651	.755
MEAN RADIUS	:	1.170	1.087	1.091
MAX RADIUS	:	1.870	1.618	1.360
HORIZONTAL SPREAD	:	1.720	1.720	1.720
VERTICAL SPREAD	:	3.624	2.727	2.339
EXTREME SPREAD	:	3.674	2.967	2.457
NUMBER IN ONE INCH CIRCLE	=	0		
NUMBER IN TWO INCH CIRCLE	=	4		
NUMBER IN THREE INCH CIRCLE	=	8		

6 Feb 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C6225560

CENTERFIRE PATTERNS

4

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS- 10

IN CIR

1 in = 2

2 in = 8

3 in = 9

HS= 2.717

VS= 1.406

GS= 2.739

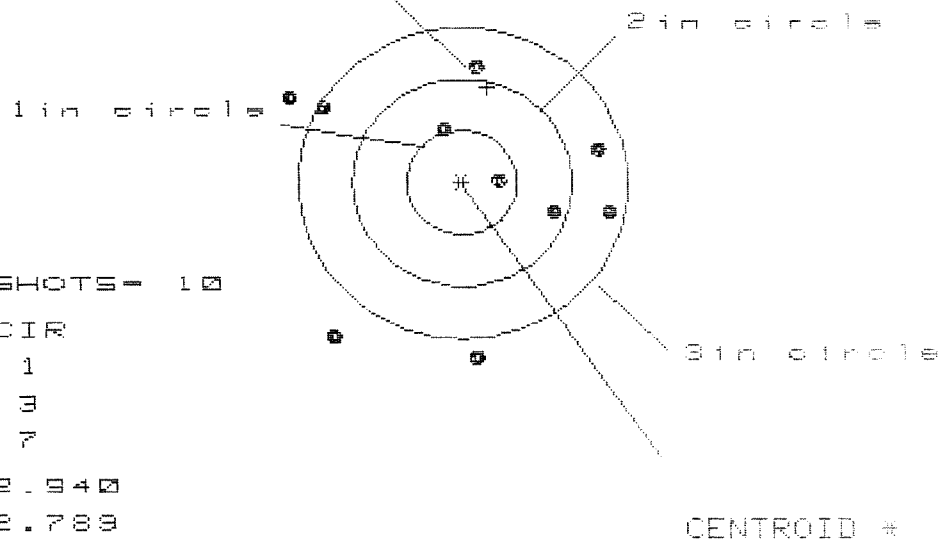
PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.528	.587	.460
MINIMUM X	:	-1.189	-1.019	-.559
MAXIMUM Y	:	.615	.634	.614
MINIMUM Y	:	-.792	-.772	-.792
CENTROID X	:	.034	-.136	-.009
CENTROID Y	:	-.308	-.328	-.308
POA TO CENTROID in.	:	.310	.355	.308
MIN RADIUS	:	.048	.209	.086
MEAN RADIUS	:	.703	.612	.540
MAX RADIUS	:	1.538	1.030	.807
HORIZONTAL SPREAD	:	2.717	1.606	1.019
VERTICAL SPREAD	:	1.406	1.406	1.406
EXTREME SPREAD	:	2.739	1.731	1.422
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		9	

6 Feb 1989

FILE:/PATTERNING/CENTERFIRE_PATT/06225560

CENTERFIRE PATTERNS # 5

POA



OF SHOTS= 10

IN CIR

1 in = 1

2 in = 3

3 in = 7

HS= 2.940

VS= 2.789

GS= 3.146

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.353	1.227	1.013
MINIMUM X	:	-1.587	-1.713	-1.568
MAXIMUM Y	:	1.156	.995	1.083
MINIMUM Y	:	-1.633	-1.794	-1.706
CENTROID X	:	-.235	-.109	.105
CENTROID Y	:	-.919	-.758	-.846
POA TO CENTROID in.	:	.949	.766	.853
MIN RADIUS	:	.374	.271	.041
MEAN RADIUS	:	1.224	1.109	.964
MAX RADIUS	:	1.841	1.853	1.716
HORIZONTAL SPREAD	:	2.940	2.940	2.581
VERTICAL SPREAD	:	2.789	2.789	2.789
EXTREME SPREAD	:	3.146	3.146	2.789
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		7	

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06225560
17 Feb 1989

Re Test

CENTROIDAL DISTANCES

0 TO	1	.57079
1 TO	2	.352466
1 TO	3	.429792
1 TO	4	.129541
1 TO	5	.378621

$\frac{1}{57}$

<----POA

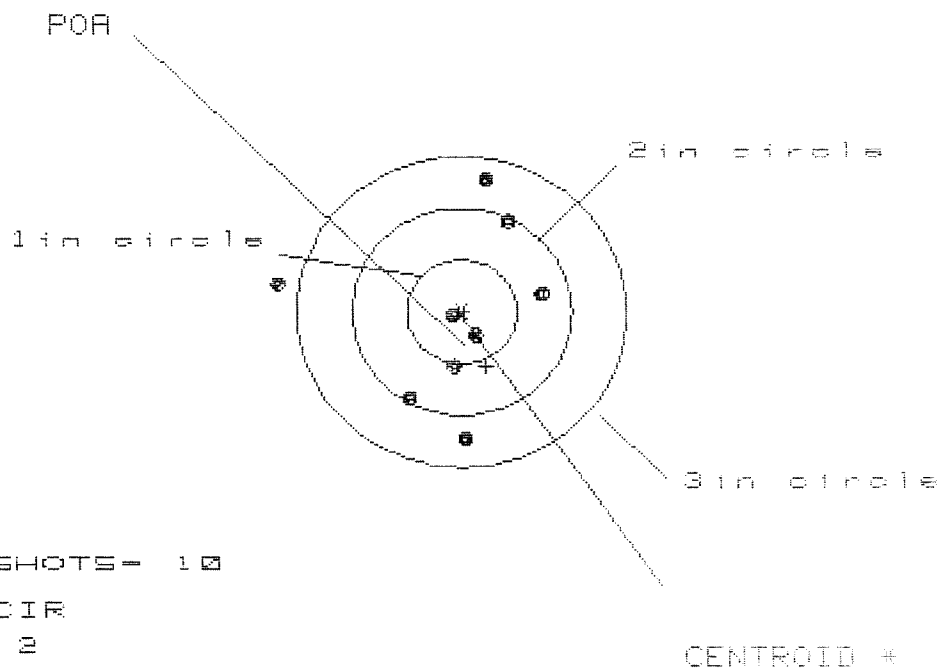
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.1762
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .2832
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .33354

THE AMR FOR THIS RIFLE IS: .8246

17 Feb 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C6225560

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 6

3 in = 9

HS= 2.359

VS= 2.474

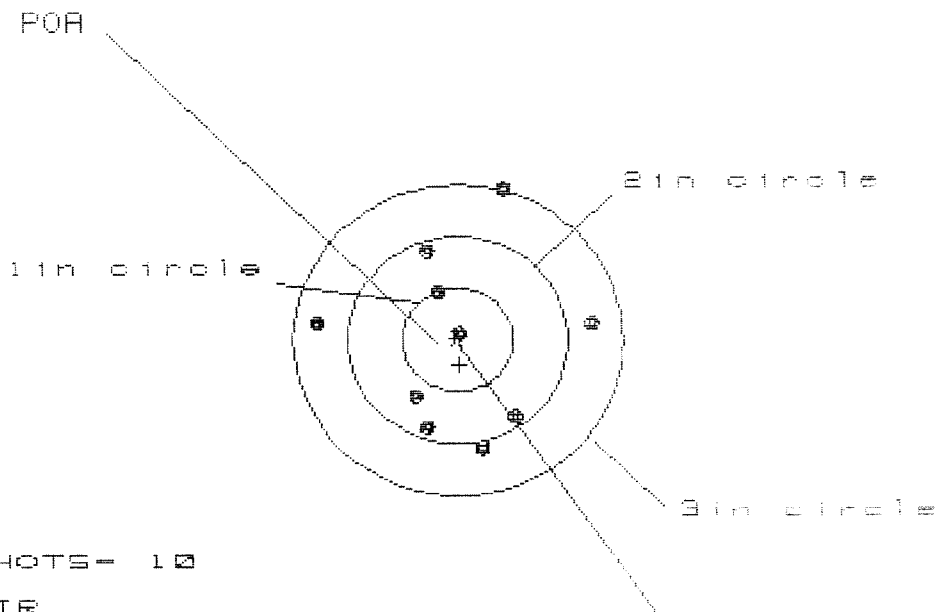
GS= 2.491

PATTERN #	:	1	2	3
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.719	.537	.548
MINIMUM X	:	-1.640	-.620	-.609
MAXIMUM Y	:	1.230	1.265	1.106
MINIMUM Y	:	-1.244	-1.209	-1.051
CENTROID X	:	-.224	-.042	-.053
CENTROID Y	:	.525	.490	.332
POA TO CENTROID in.	:	.571	.492	.336
MIN RADIUS	:	.076	.207	.096
MEAN RADIUS	:	.844	.739	.651
MAX RADIUS	:	1.670	1.268	1.143
HORIZONTAL SPREAD	:	2.359	1.157	1.157
VERTICAL SPREAD	:	2.474	2.474	2.157
EXTREME SPREAD	:	2.491	2.491	2.210
NUMBER IN ONE INCH CIRCLE	=	2		
NUMBER IN TWO INCH CIRCLE	=	6		
NUMBER IN THREE INCH CIRCLE	=	9		

17 Feb 1988

FILE:/PATTERNING/CENTERFIRE_PATT/08225560

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 6

3 in = 9

HS= 2.543

VS= 2.510

GS= 2.543

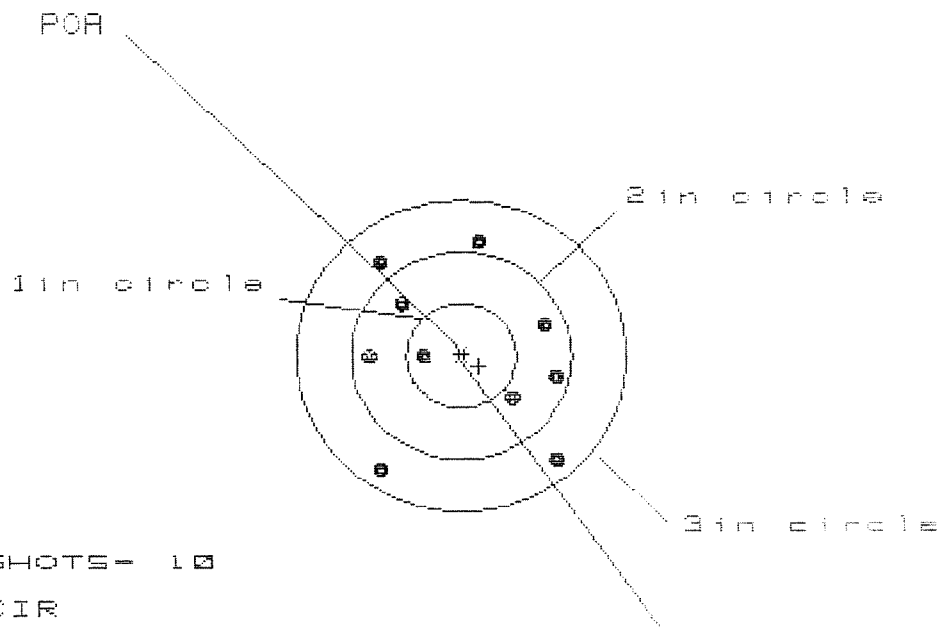
CENTROID #

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.263	1.308	1.154
MINIMUM X	:	-1.290	-1.235	-.529
MAXIMUM Y	:	1.485	.997	1.034
MINIMUM Y	:	-1.025	-.860	-.823
CENTROID X	:	-.018	-.063	.091
CENTROID Y	:	.239	.074	.037
POA TO CENTROID in.	:	.239	.097	.098
MIN RADIUS	:	.121	.291	.314
MEAN RADIUS	:	.919	.843	.789
MAX RADIUS	:	1.541	1.346	1.207
HORIZONTAL SPREAD	:	2.543	2.543	1.683
VERTICAL SPREAD	:	2.510	1.857	1.857
EXTREME SPREAD	:	2.543	2.543	1.912
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	

17 Feb 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08225580

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 1

2in = 6

3in = 10

HS= 1.680

VS= 2.159

GS= 2.513

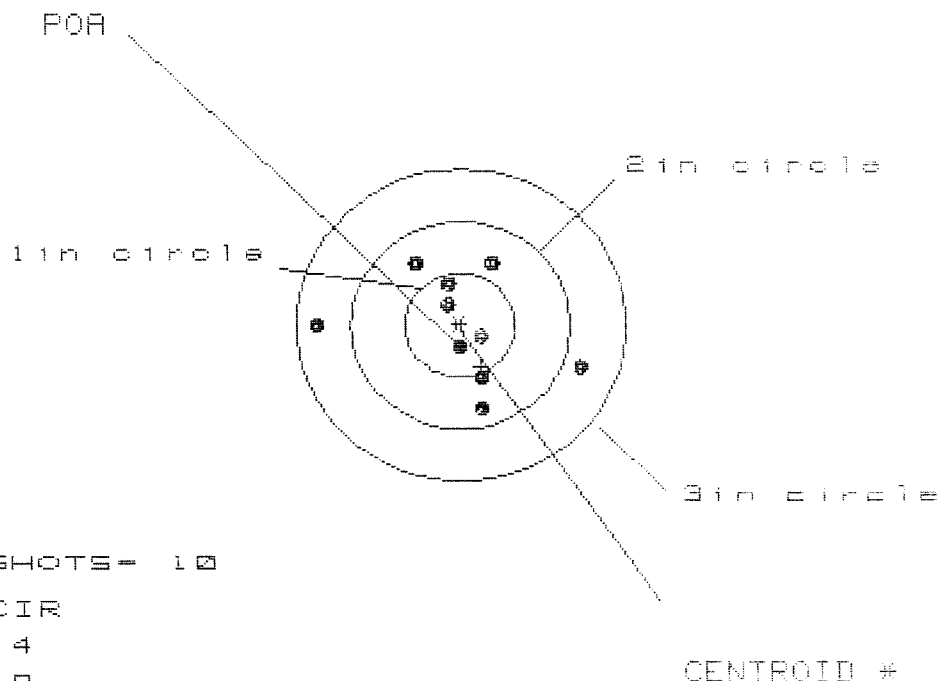
CENTROID #

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.869	.913	.836
MINIMUM X	:	-.811	-.714	-.791
MAXIMUM Y	:	1.056	.943	.791
MINIMUM Y	:	-1.103	-1.216	-.704
CENTROID X	:	-.160	-.257	-.179
CENTROID Y	:	.100	.213	.365
POA TO CENTROID in.	:	.189	.334	.406
MIN RADIUS	:	.315	.246	.398
MEAN RADIUS	:	.907	.842	.773
MAX RADIUS	:	1.334	1.365	.977
HORIZONTAL SPREAD	:	1.680	1.627	1.627
VERTICAL SPREAD	:	2.159	2.159	1.495
EXTREME SPREAD	:	2.513	2.343	1.933
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		10	

17 Feb 1989

FILE:/PATTERNING/CENTERFIRE_PATT/06225560

CENTERFIRE PATTERNS # 4



OF SHOTS= 10

IN CIR

1in = 4

2in = 8

3in = 10

HS= 2.435

VS= 1.394

GS= 2.471

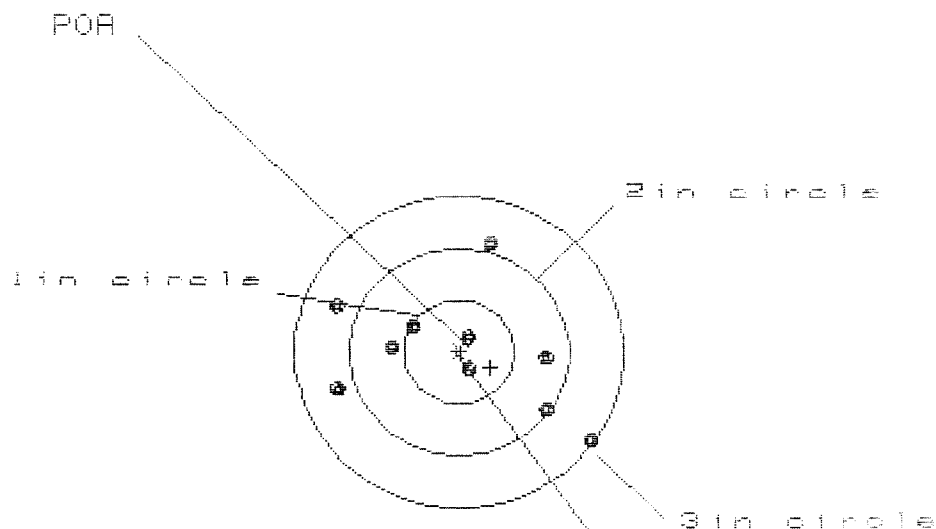
CENTROID *

PATTERN #	:	4	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.099	.951	.299
MINIMUM X	:	-1.336	-.582	-.463
MAXIMUM Y	:	.643	.647	.599
MINIMUM Y	:	-.751	-.747	-.795
CENTROID X	:	-.190	-.042	-.161
CENTROID Y	:	.400	.396	.444
POA TO CENTROID in.	:	.443	.398	.472
MIN RADIUS	:	.196	.087	.212
MEAN RADIUS	:	.642	.558	.488
MAX RADIUS	:	1.336	1.024	.804
HORIZONTAL SPREAD	:	2.435	1.533	.762
VERTICAL SPREAD	:	1.394	1.394	1.394
EXTREME SPREAD	:	2.471	1.837	1.499
NUMBER IN ONE INCH CIRCLE	=	4		
NUMBER IN TWO INCH CIRCLE	=	8		
NUMBER IN THREE INCH CIRCLE	=	10		

17 Feb 1989

FILE:/PATTERNING/CENTERFIRE_PATT/06225560

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1 in = 3

2 in = 5

3 in = 10

HS= 2.322

VS= 1.877

GS= 2.591

CENTROID #

PATTERN #	5		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.183	.945	.819
MINIMUM X	-1.139	-1.008	-1.087
MAXIMUM Y	1.055	.964	.913
MINIMUM Y	-.822	-.685	-.736
CENTROID X	-.289	-.420	-.294
CENTROID Y	.152	.243	.294
POA TO CENTROID in.	.326	.486	.416
MIN RADIUS	.175	.251	.116
MEAN RADIUS	.811	.732	.677
MAX RADIUS	1.440	1.167	1.121
HORIZONTAL SPREAD	2.322	1.953	1.906
VERTICAL SPREAD	1.877	1.649	1.649
EXTREME SPREAD	2.591	2.158	2.158
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		5	
NUMBER IN THREE INCH CIRCLE =		10	