

610

C6498852

N

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

610

C6498852

N

-----TN-----



RECORDS CONTROL SCHEDULE

RECORDS CATEGORY OR TITLE:

[REDACTED]

[REDACTED]

COPY "O" (OFFICIAL) ☐ "X" (EXTRA) ☒

TOTAL RETENTION: [REDACTED]

GS-11050 Rev. 8/78

Repair Inquiry

Repair Number: RE00124466

Serial: C6498852 Model M24 SWS Center Fire

Repairman:

Verify Repair

Status:

New 1/30/2007 9:39:55 AM

Address Information

Customer:

☒ Received From

Return To:

☐ Received From

Name: USPFO FOR COLORADO

USPFO FOR COLORADO

Address 1: 1181 KILMER STREET

1181 KILMER STREET

Address 2: PO Box:

PO Box:

City: GOLDEN

GOLDEN

State: CO

Zip Code: 80401

Country: US

State: CO

Zip Code: 80401

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
A026	Scope	1
A057	Fit and Rear Sgt Base	2

Repair Search

Refresh

Close

nagletj

1/30/2007

11:03 AM

CAPS

NUM

INS

SCPL

Serial:
C6498852

Model: M24 SWS



RE00124466

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6498852.___0
FILE DATE AND TIME: 03/02/2007 14:51

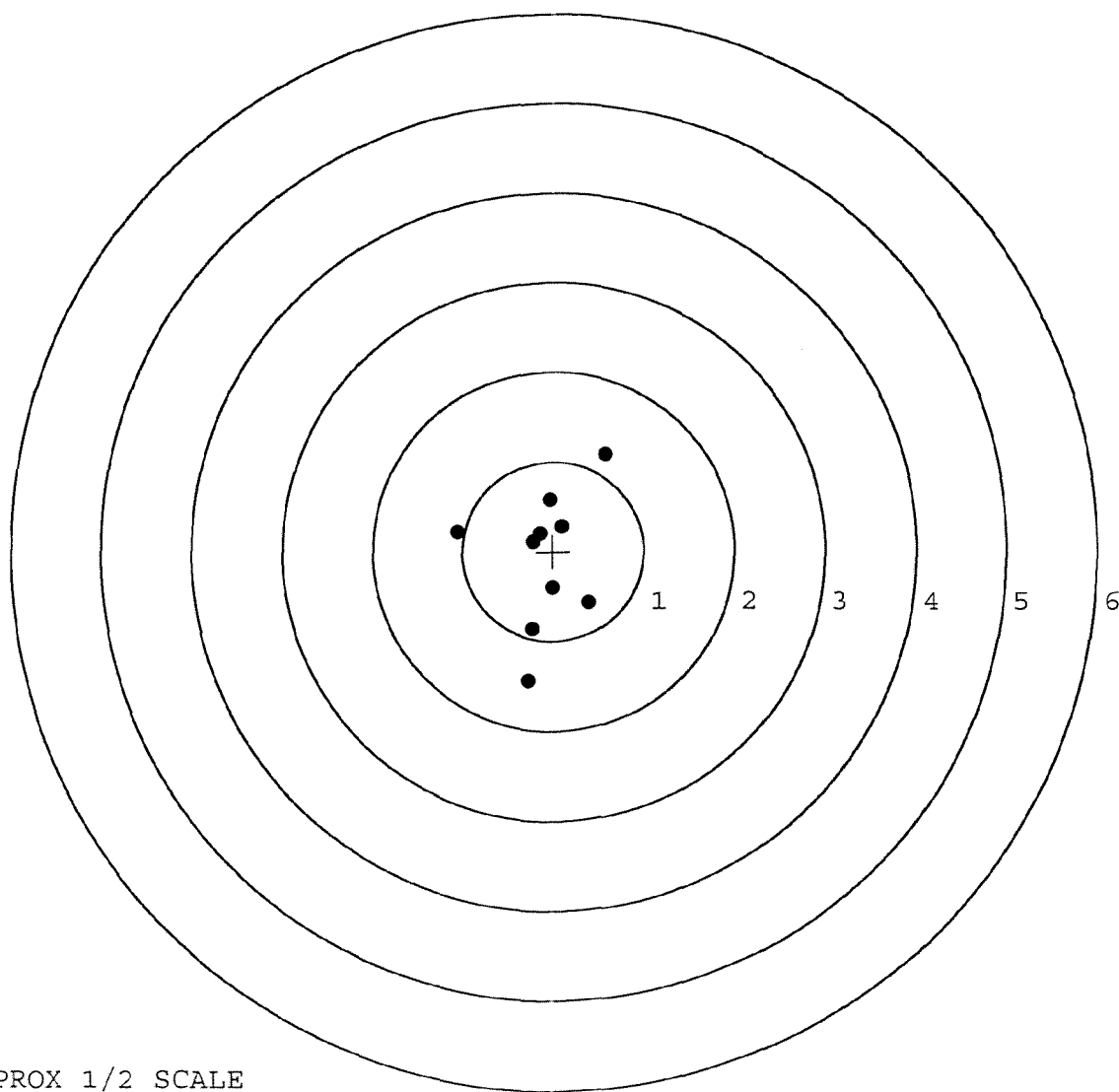
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.090
The Average Y Centroid of the Five Target Set:	-0.043
The Average Point of Impact of the Five Target Set:	0.099
The Average Mean Radius of the Five Target Set:	0.591
The Distance from POA to Centroid Target #1:	0.122
The Distance from Centroid Target #2 to Centroid Target #1:	0.149
The Distance from Centroid Target #3 to Centroid Target #1:	0.022
The Distance from Centroid Target #4 to Centroid Target #1:	0.115
The Distance from Centroid Target #5 to Centroid Target #1:	0.051

SERIAL NUMBER: C6498852. 0
TARGET NUMBER: 1
FILE DATE: 03/02/2007
FILE TIME: 14:51

POINT#	X	Y
1:	-0.273	-1.448
2:	-0.231	-0.872
3:	0.397	-0.575
4:	-0.001	-0.408
5:	-1.057	0.216
6:	-0.225	0.112
7:	-0.141	0.200
8:	0.102	0.274
9:	-0.031	0.578
10:	0.574	1.082

X CENTROID: -0.089
Y CENTROID: -0.084
POA TO CENTROID: 0.122
HORZ SPREAD: 1.631
VERT SPREAD: 2.530
GROUP SPREAD: 2.668
MIN RADIUS: 0.239
MAX RADIUS: 1.376
MEAN RADIUS: 0.716
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 10

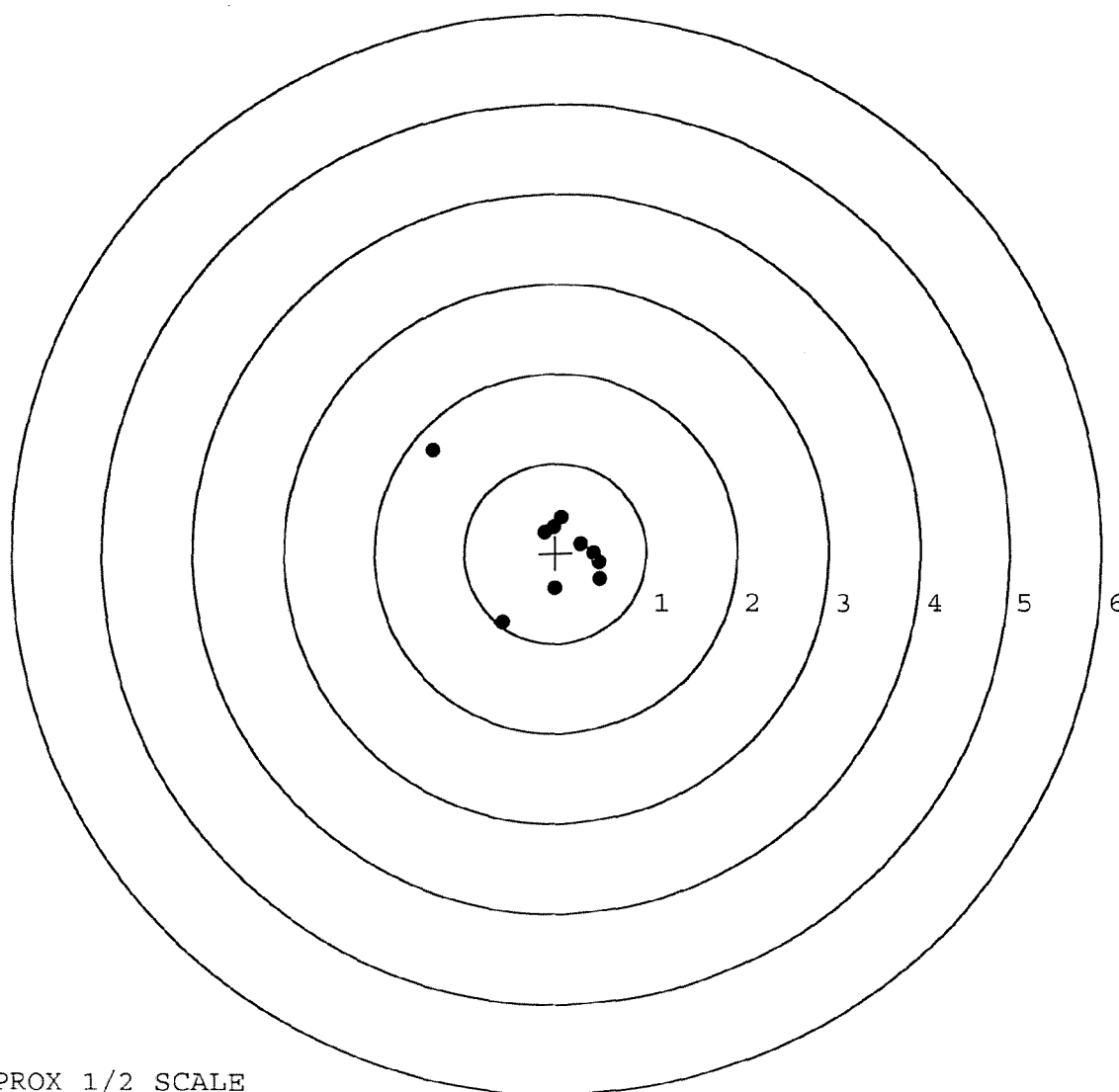


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498852._0
TARGET NUMBER: 2
FILE DATE: 03/02/2007
FILE TIME: 14:51

X CENTROID: -0.036
Y CENTROID: 0.055
POA TO CENTROID: 0.066
HORZ SPREAD: 1.845
VERT SPREAD: 1.915
GROUP SPREAD: 2.342
MIN RADIUS: 0.194
MAX RADIUS: 1.708
MEAN RADIUS: 0.588
IN 1 IN DIAMETER: 6
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 9

POINT#	X	Y
1:	-0.574	-0.773
2:	-0.012	-0.391
3:	-1.353	1.142
4:	0.068	0.400
5:	-0.026	0.288
6:	-0.126	0.227
7:	0.279	0.089
8:	0.416	-0.017
9:	0.475	-0.115
10:	0.492	-0.300

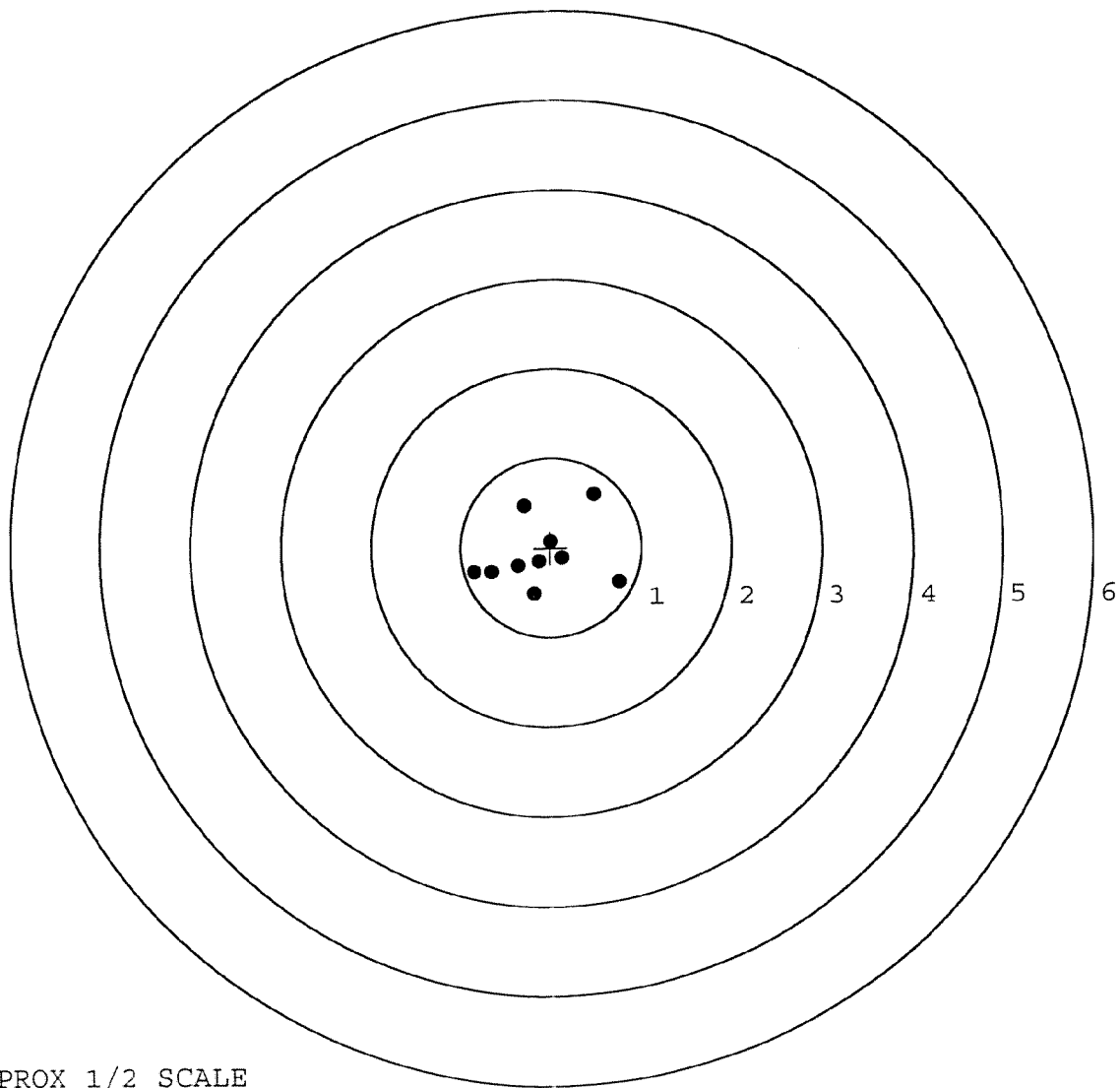


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498852. __0
TARGET NUMBER: 3
FILE DATE: 03/02/2007
FILE TIME: 14:51

POINT#	X	Y
1:	0.756	-0.389
2:	0.485	0.592
3:	-0.293	0.470
4:	-0.849	-0.270
5:	-0.658	-0.270
6:	-0.180	-0.515
7:	-0.366	-0.206
8:	0.002	0.071
9:	0.129	-0.119
10:	-0.127	-0.159

X CENTROID: -0.110
Y CENTROID: -0.079
POA TO CENTROID: 0.136
HORZ SPREAD: 1.605
VERT SPREAD: 1.107
GROUP SPREAD: 1.609
MIN RADIUS: 0.081
MAX RADIUS: 0.920
MEAN RADIUS: 0.498
IN 1 IN DIAMETER: 5
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10

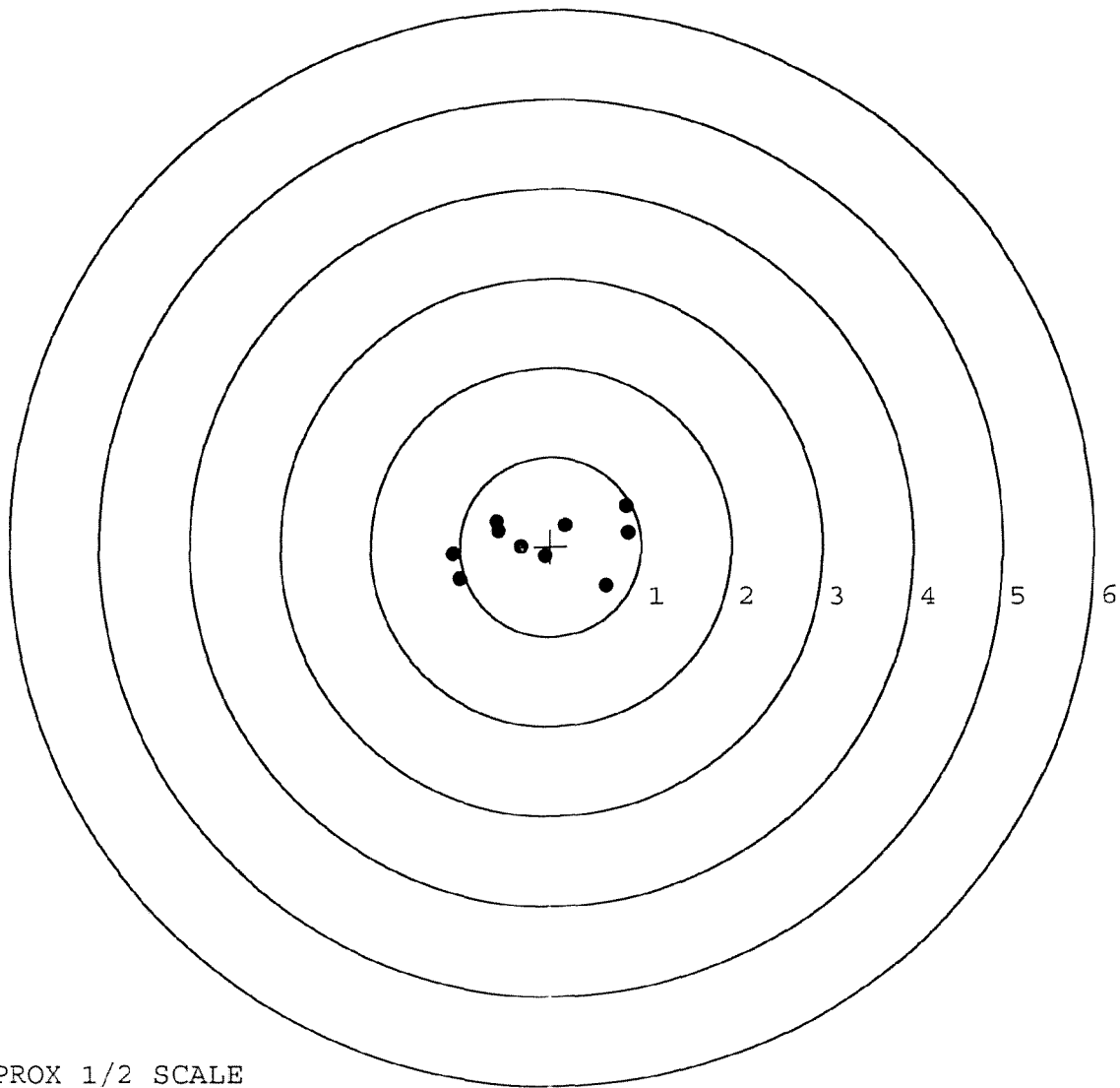


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498852. 0
TARGET NUMBER: 4
FILE DATE: 03/02/2007
FILE TIME: 14:51

POINT#	X	Y
1:	0.836	0.441
2:	0.856	0.153
3:	0.617	-0.446
4:	0.164	0.230
5:	-0.062	-0.110
6:	-0.327	0.006
7:	-0.594	0.279
8:	-1.076	-0.091
9:	-1.005	-0.364
10:	-0.577	0.177

X CENTROID: -0.117
Y CENTROID: 0.028
POA TO CENTROID: 0.120
HORZ SPREAD: 1.932
VERT SPREAD: 0.887
GROUP SPREAD: 2.009
MIN RADIUS: 0.148
MAX RADIUS: 1.039
MEAN RADIUS: 0.656
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

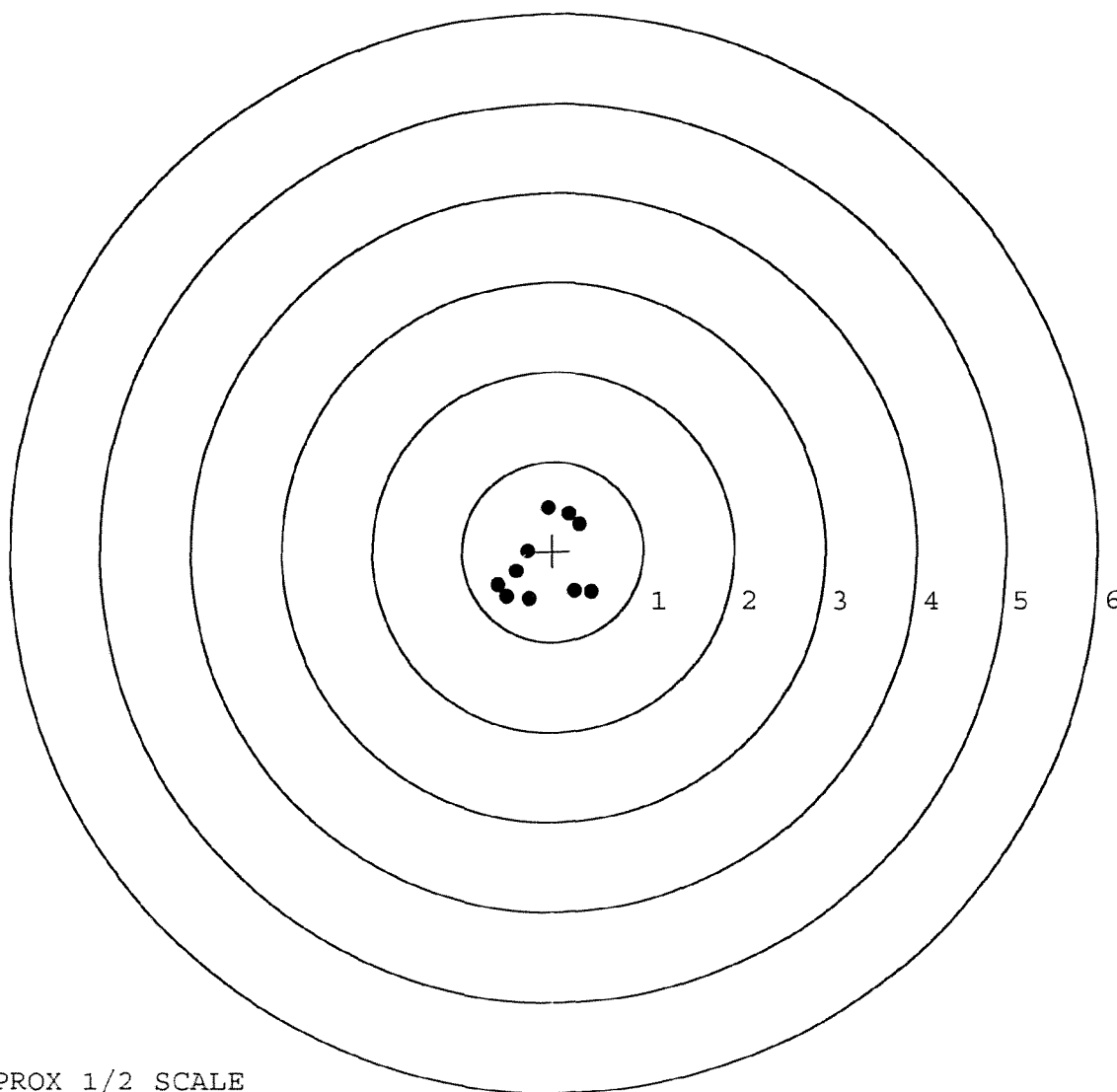


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498852. __0
TARGET NUMBER: 5
FILE DATE: 03/02/2007
FILE TIME: 14:51

X CENTROID: -0.096
Y CENTROID: -0.134
POA TO CENTROID: 0.165
HORZ SPREAD: 1.034
VERT SPREAD: 1.018
GROUP SPREAD: 1.093
MIN RADIUS: 0.228
MAX RADIUS: 0.622
MEAN RADIUS: 0.500
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.295	0.299
2:	0.183	0.414
3:	-0.051	0.486
4:	0.432	-0.459
5:	0.244	-0.442
6:	-0.283	-0.003
7:	-0.406	-0.223
8:	-0.602	-0.375
9:	-0.510	-0.506
10:	-0.261	-0.532



TARGET APPROX 1/2 SCALE

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

R & E NUMBER	124466		
SERIAL NUMBER	C6498852		
LOG-IN DATE	1-30-07		
OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	2-5-07	RTZ
505	RE-BARREL	2-7-07	RTZ
560	ASSEMBLE	2-7-07	RTZ
600	PROOF	2-7-07	Fm
605	CHECK HEADSPACE	INSPECTED	2-7-07 Fm
610	DIS-ASSEMBLE GUN	FEB 13 2007	2-7-07 RTZ
612	MAGNAFLUX	OPERATOR <u>(LFD)</u>	2-13-07 AFD
510	DRILL AND TAP		2-12-07 TRW
615	ROLLMARK CALIBER		2-13-07 CW
618	ROTO-BLAST		2-13-07 LB
620	APPLY COATINGS		2-19-07 WJ
625	FINAL ASSEMBLY		3-1-07 RTZ
640	FUNCTION TEST AND	(PASS) FAIL	3-2-07 TRW
650	TARGET	(PASS) FAIL	3-2-07 TRW
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	3-2-07 Fm
670	FINAL INSPECTION		3/6/07 non
	A) HEADSPACE	(PASS) FAIL	3/6/07 non
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	2.75 2.44 2.42 2.51 2.48 3/6/07 non
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS MAX	4.0 4.0 4.0 3/6/07 non
	G) SAFETY OFF FORCE	2 LBS MIN	3.0 3.0 3.0 3/6/07 non
	I) FIRING PIN INDENT	.020	.023 .024 .023 3/6/07 non
690	PACK		3-9-07 AR

Repair Inquiry

Repair Number: **RE00124469** Serial: C6349092 Model M24 SWS Center Fire Repairman: _____
 Verify Repair _____ Status: New 1/30/2007 9:47:32 AM

Address Information

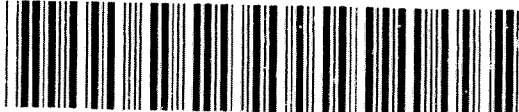
Customer: _____ ☒ Received From _____ Return To: _____ ☐ Received From _____
 Name: **USPFO FOR COLORADO** **USPFO FOR COLORADO**
 Address 1: **1181 KILMER STREET** **1181 KILMER STREET**
 Address 2: _____ PO Box: _____
 City: **GOLDEN** **GOLDEN**
 State: **CO** Zip Code: **80401** Country: **US** State: **CO** Zip Code: **80401** 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 <table border="1"> <thead> <tr> <th>Code</th> <th>Desc</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>A007</td> <td>With Stud</td> <td>3</td> </tr> <tr> <td>A010</td> <td>Hard Case</td> <td>1</td> </tr> <tr> <td>A017</td> <td>Scope Base</td> <td>1</td> </tr> <tr> <td>A026</td> <td>Scope</td> <td>1</td> </tr> <tr> <td>A045</td> <td>Bi Pod</td> <td>1</td> </tr> <tr> <td>A057</td> <td>Fit and Rear Sgt Base</td> <td>2</td> </tr> </tbody> </table>			Code	Desc	Qty	A007	With Stud	3	A010	Hard Case	1	A017	Scope Base	1	A026	Scope	1	A045	Bi Pod	1	A057	Fit and Rear Sgt Base	2
Code	Desc	Qty																							
A007	With Stud	3																							
A010	Hard Case	1																							
A017	Scope Base	1																							
A026	Scope	1																							
A045	Bi Pod	1																							
A057	Fit and Rear Sgt Base	2																							

Repair Search | Refresh | Close

magletj 1/30/2007 11:03 AM C6349092 NUM INS SCRL

start 2 Mic... Arms S... Part S... 3 Int... S Mic... Travel 11:03 AM

Serial Number: **C6349092**
 Model: **M24 SWS**

RE00124469

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6349092.___0
FILE DATE AND TIME: 03/02/2007 14:55

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

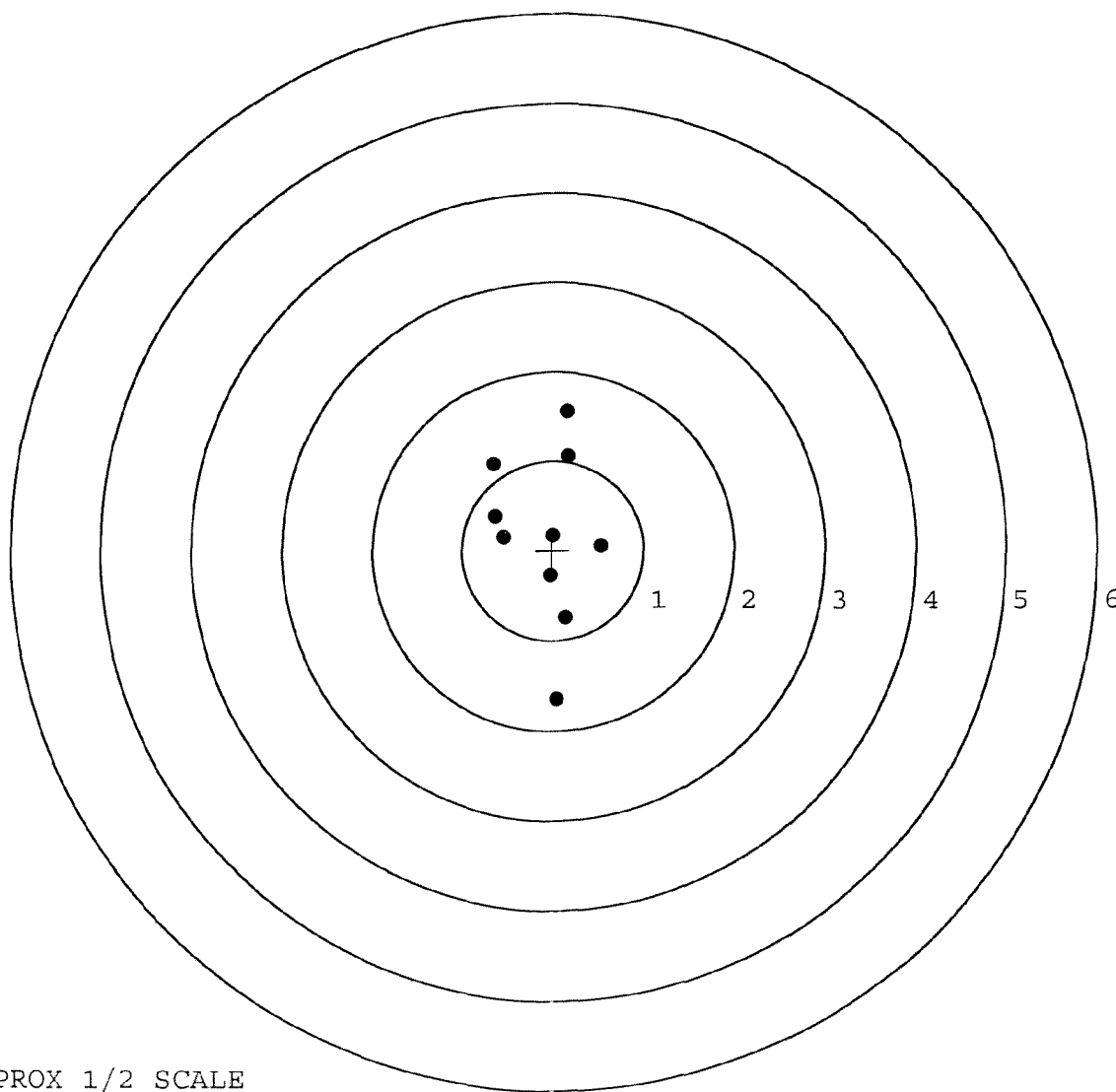
The Average X Centroid of the Five Target Set:	-0.024
The Average Y Centroid of the Five Target Set:	-0.067
The Average Point of Impact of the Five Target Set:	0.071
The Average Mean Radius of the Five Target Set:	0.657
The Distance from POA to Centroid Target #1:	0.179
The Distance from Centroid Target #2 to Centroid Target #1:	0.310
The Distance from Centroid Target #3 to Centroid Target #1:	0.166
The Distance from Centroid Target #4 to Centroid Target #1:	0.224
The Distance from Centroid Target #5 to Centroid Target #1:	0.527

SERIAL NUMBER: C6349092. __0
TARGET NUMBER: 1
FILE DATE: 03/02/2007
FILE TIME: 14:55

X CENTROID: -0.078
Y CENTROID: 0.161
POA TO CENTROID: 0.179
HORZ SPREAD: 1.175
VERT SPREAD: 3.204
GROUP SPREAD: 3.206
MIN RADIUS: 0.086
MAX RADIUS: 1.823
MEAN RADIUS: 0.830

POINT#	X	Y
1:	0.141	-0.755
2:	0.527	0.047
3:	-0.025	-0.282
4:	0.008	0.161
5:	-0.546	0.147
6:	-0.635	0.380
7:	-0.648	0.972
8:	0.177	1.049
9:	0.166	1.547
10:	0.052	-1.657

IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 9

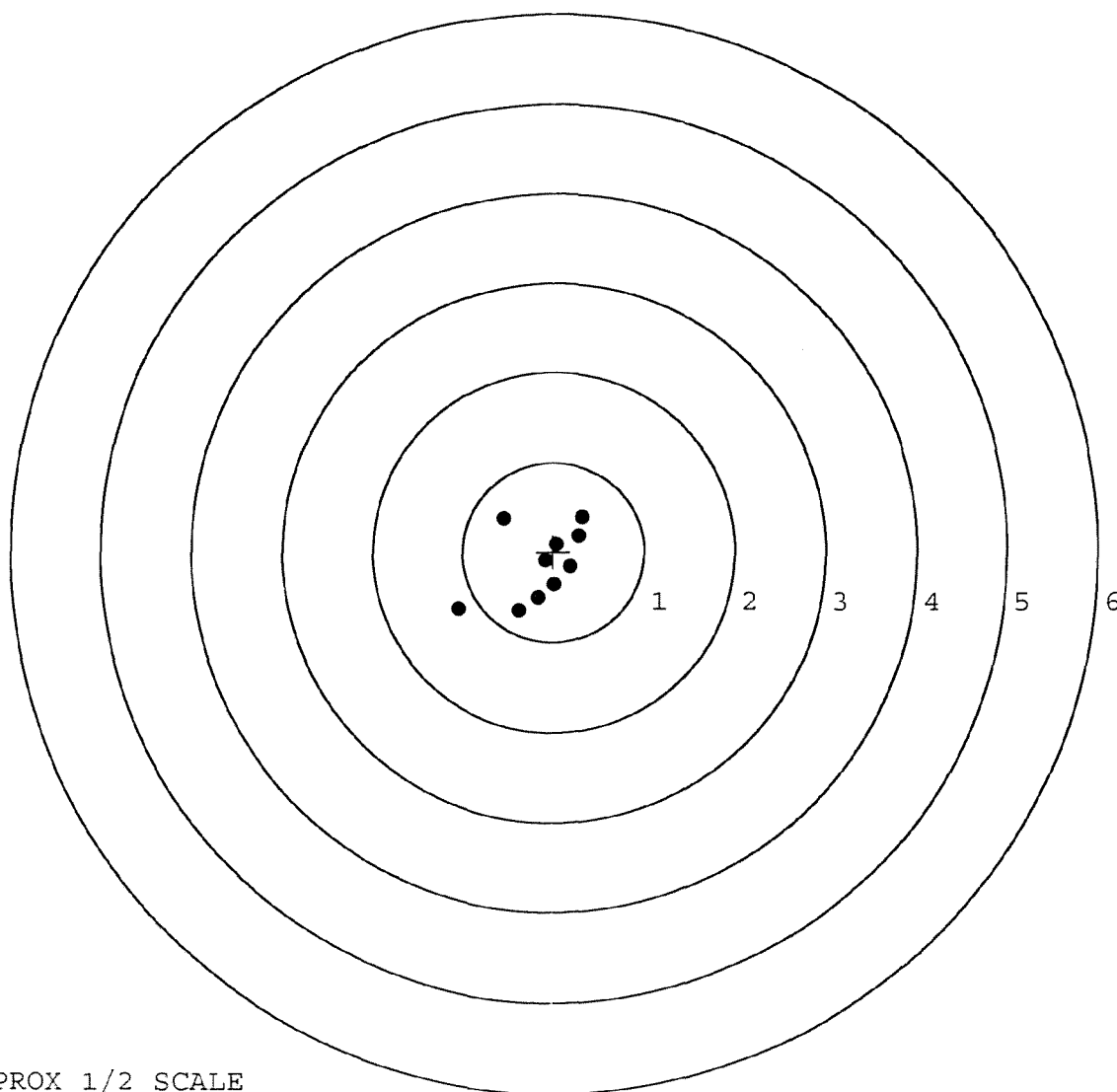


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349092. __0
TARGET NUMBER: 2
FILE DATE: 03/02/2007
FILE TIME: 14:55

POINT#	X	Y
1:	-1.042	-0.645
2:	-0.543	0.379
3:	0.321	0.390
4:	0.196	-0.170
5:	0.035	0.085
6:	-0.089	-0.106
7:	0.016	-0.371
8:	-0.162	-0.519
9:	-0.378	-0.655
10:	0.285	0.180

X CENTROID: -0.136
Y CENTROID: -0.143
POA TO CENTROID: 0.198
HORZ SPREAD: 1.363
VERT SPREAD: 1.045
GROUP SPREAD: 1.711
MIN RADIUS: 0.060
MAX RADIUS: 1.036
MEAN RADIUS: 0.483
IN 1 IN DIAMETER: 5
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349092. 0

TARGET NUMBER: 3

FILE DATE: 03/02/2007

FILE TIME: 14:55

POINT#	X	Y
1:	0.971	-0.645
2:	0.767	-0.345
3:	0.249	-0.276
4:	-0.199	-0.577
5:	-0.626	-0.260
6:	-1.094	-0.001
7:	0.082	0.172
8:	0.029	0.329
9:	-0.380	0.606
10:	0.085	1.091

X CENTROID: -0.012

Y CENTROID: 0.009

POA TO CENTROID: 0.015

HORZ SPREAD: 2.065

VERT SPREAD: 1.736

GROUP SPREAD: 2.163

MIN RADIUS: 0.188

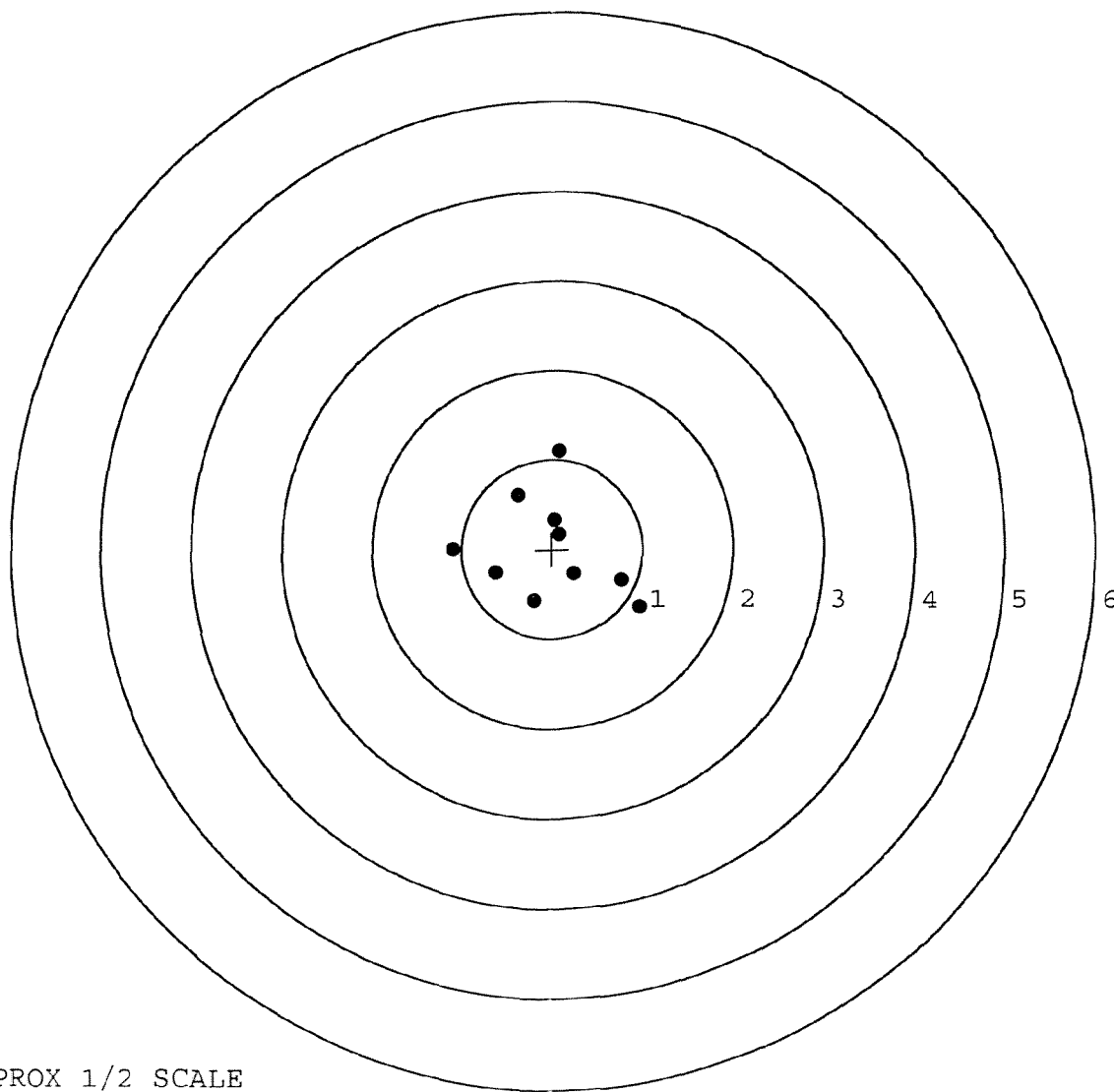
MAX RADIUS: 1.181

MEAN RADIUS: 0.709

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 10

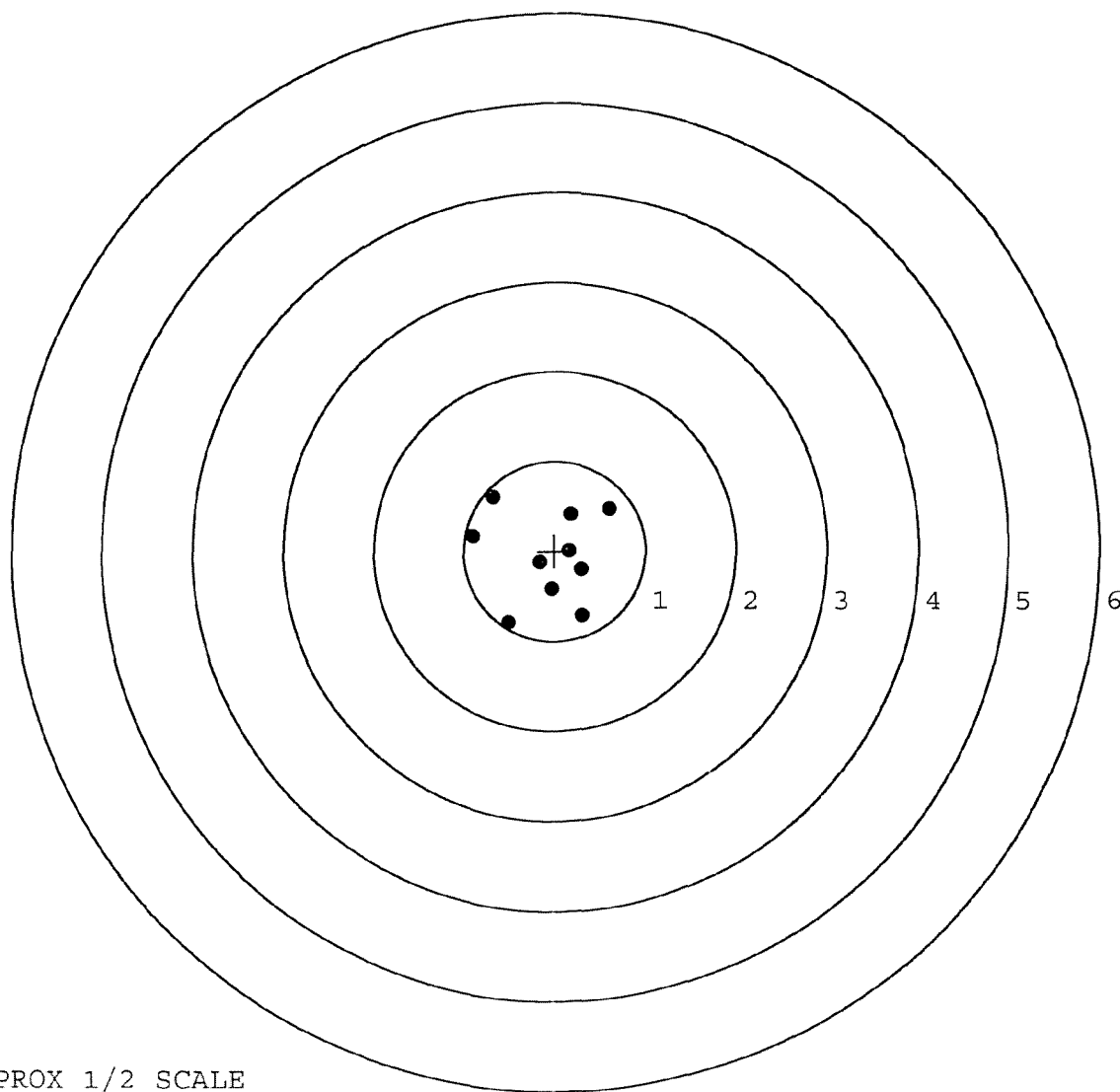


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349092. __0
TARGET NUMBER: 4
FILE DATE: 03/02/2007
FILE TIME: 14:55

POINT#	X	Y
1:	0.312	-0.715
2:	-0.502	-0.794
3:	-0.675	0.604
4:	-0.903	0.168
5:	0.600	0.472
6:	0.180	0.410
7:	0.301	-0.204
8:	-0.023	-0.429
9:	-0.154	-0.133
10:	0.162	-0.004

X CENTROID: -0.070
Y CENTROID: -0.062
POA TO CENTROID: 0.094
HORZ SPREAD: 1.503
VERT SPREAD: 1.398
GROUP SPREAD: 1.647
MIN RADIUS: 0.110
MAX RADIUS: 0.900
MEAN RADIUS: 0.588
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10

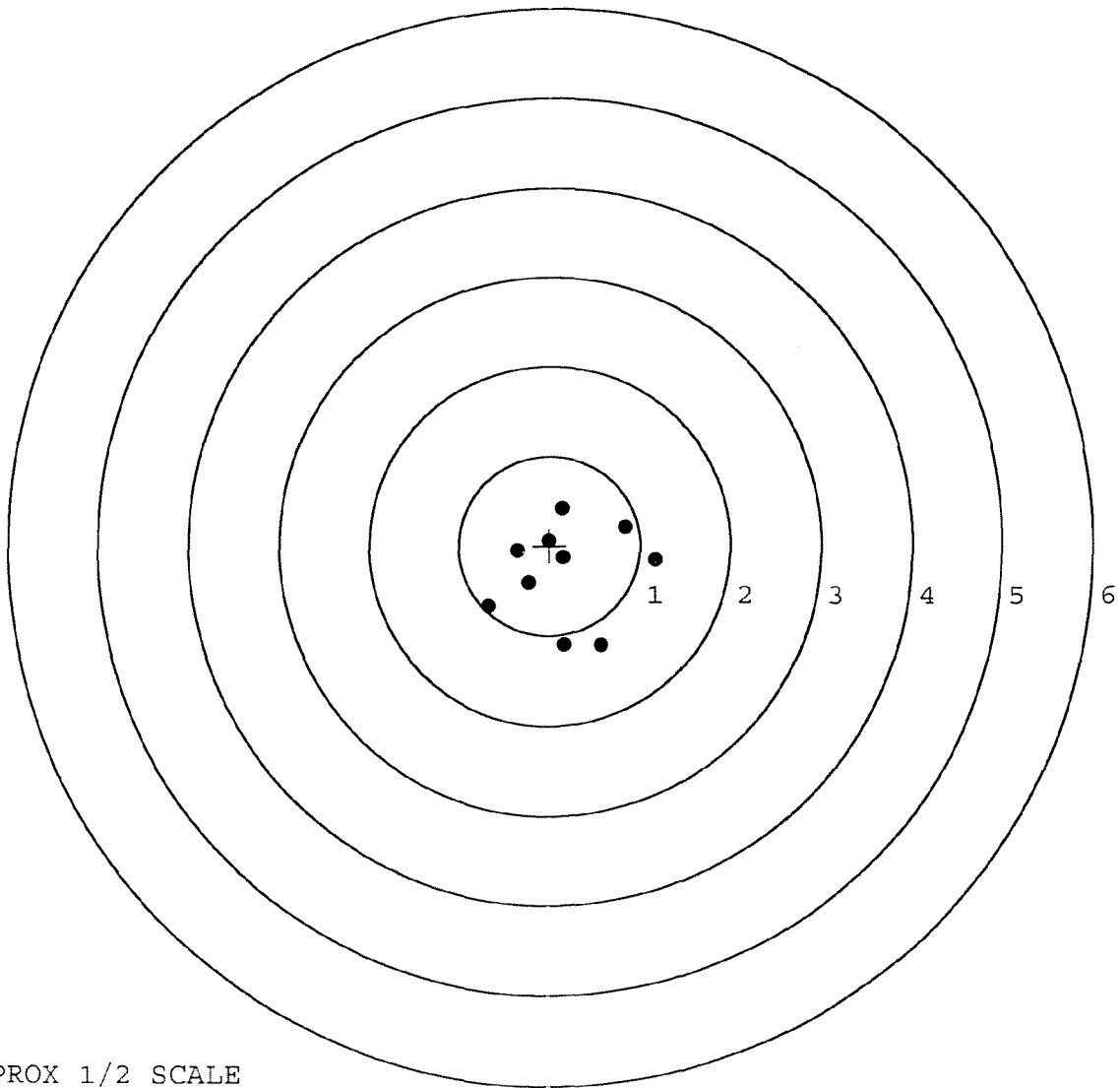


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349092. 0
TARGET NUMBER: 5
FILE DATE: 03/02/2007
FILE TIME: 14:55

POINT#	X	Y
1:	1.168	-0.161
2:	0.839	0.203
3:	0.567	-1.117
4:	0.165	-1.112
5:	-0.670	-0.676
6:	0.145	0.418
7:	0.154	-0.136
8:	-0.008	0.058
9:	-0.228	-0.416
10:	-0.357	-0.058

X CENTROID: 0.177
Y CENTROID: -0.300
POA TO CENTROID: 0.348
HORZ SPREAD: 1.838
VERT SPREAD: 1.535
GROUP SPREAD: 1.909
MIN RADIUS: 0.165
MAX RADIUS: 1.000
MEAN RADIUS: 0.677
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

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

R & E NUMBER	124469		
SERIAL NUMBER	C6349092		
LOG-IN DATE	1-30-07		
OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	2-5-07	RTZ
505	RE-BARREL	2-7-07	RTZ
560	ASSEMBLE	2-7-07	RTZ
600	PROOF	2-7-07	FM
605	CHECK HEADSPACE	INSPECTED	2-7-07 FM
610	DIS-ASSEMBLE GUN	FEB 13 2007	2-7-07 RTZ
612	MAGNAFLUX	OPERATOR APD	2-13-07 APD
510	DRILL AND TAP		2-12-07 TRW
615	ROLLMARK CALIBER		2-13-07 CWN
618	ROTO-BLAST		2-13-07 LB
620	APPLY COATINGS		2-14-07 WJ
625	FINAL ASSEMBLY		3-1-07 RTZ
640	FUNCTION TEST AND	(PASS) FAIL	3-2-07 TRW
650	TARGET	(PASS) FAIL	3-2-07 TRW
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	3-2-07 FM
670	FINAL INSPECTION		3/6/07
	A) HEADSPACE	(PASS) FAIL	3/6/07
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	2.36 2.24 2.23 2.28 2.33 3.607 DA
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS MAX	4.5 4.5 4.0 3.607 DA
	G) SAFETY OFF FORCE	2 LBS MIN	2.5 2.0 2.0 3.607 DA
	I) FIRING PIN INDENT	.020	1.023 1.023 1.023 3.607 DA
690	PACK		3-9-07 DA

Remington[®]


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

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

MODEL 700 TM H24	SERIAL NO. C6498852
	ORDER NO. 5716

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

01



5716 C6498852

UPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6498852

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	5 17	90	RW
600	Proof	5 17	90	RW
607	Check Headspace	5 17	90	RW
610	Dis-assemble Gun	5 17	90	RW
612	Magnaflux Barrel Action		5/22/90	KCR
	Magnaflux Bolt		5/22/90	KCR
615	Rollmark Caliber		5/22/90	GS
617	Drill and Tap Sight Holes		5/23/90	FB
618	Polish Barrel RB		5/24/90	WB
620	Apply Coatings (Barrel Action)		6/4/90	JA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		6/4/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		6/4/90	RW
	C) Inspect Ejector Hole for Chamfer		6/4/90	RW
	D) Oil Firing Pin Ass'y		6/4/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		6/11/90	JL

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	3 1/2	3 1/2	3 1/2			6/12/90	WB
	G) Safety Off Force	2	2	2			6/12/90	WB
	H) Trigger Pull Test & Retainability						6-21-90	JH
	I) Firing Pin Indent	.0235	.023	.023			6/12/90	WB
	J) Assemble Stock						6/13/90	RW
	K) Assemble Swivel Studs						6/14/90	JH
	L) Attach Front and Rear Sight Assemblies						6/13/90	RW
	M) Iron Sight Alignment						6/13/90	RW
	N) Detach Front & Rear Sights & place in numbered container						6/13/90	RW
	O) Attach Scope to Rifle						6/13/90	WB
	P) Detach & Attach Scope 20 Times						6/13/90	WB
640	Gallery Target & Test						6-13-90	AC
	A) Time						6-13-90	AC
	B) Malfunctions						6-13-90	AC
	C) Pierced Primers						6-13-90	AC
	D) Optical Clarity of Scope						6-13-90	AC
645	Inspect for Live Ammo						6-13-90	AC
655	Final Inspection A) Headspace						6/14/90	JH
	B) Trigger Pull	2.46	2.52	2.61	2.70	2.71	6-14-90	JH
	C) Function						6/14/90	JH
660	Pack						6-14-90	D/H

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO. 86498852

DATE 6/11/98

TESTER JL

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.30	2.28	2.26	2.46	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.26	2.31	2.30	2.52	
PULL #3	2.29	2.31	2.25	2.61	
PULL #4	2.33	2.26	2.31	2.70	
PULL #5	2.35	2.31	2.30	2.71	
TOTAL	11.53	11.47	11.42		
AVG.	2.306	2.294	2.284		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.32	3.31		
PULL #2	3.29	3.27		
PULL #3	3.26	3.31		
PULL #4	3.29	3.35		
PULL #5	3.31	3.34		
TOTAL	16.47	16.58		
AVG.	3.294	3.316		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.38	4.40		4.41
PULL #2	4.33	4.41		4.39
PULL #3	4.37	4.40		4.36
PULL #4	4.33	4.31		4.39
PULL #5	4.37	4.44		4.41
TOTAL	21.78	21.96		21.94
AVG.	4.356	4.392		4.388

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6498852
13 Jun 1990

CENTROIDAL DISTANCES

0 TO	1	.286447
1 TO	2	.374937
1 TO	3	.283535
1 TO	4	.276539
1 TO	5	.373755

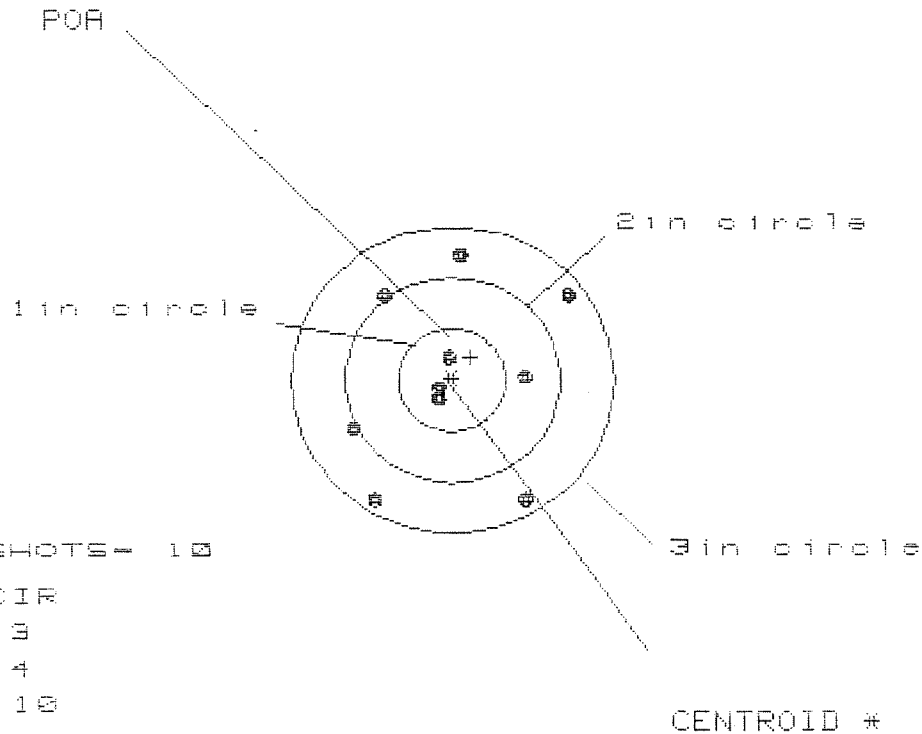
3₁⁵⁰ <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0978
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0404
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .105816
THE AMR FOR THIS RIFLE IS: .9854

13 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06498852

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1 in = 3

2 in = 4

3 in = 10

HS= 2.007

VS= 2.480

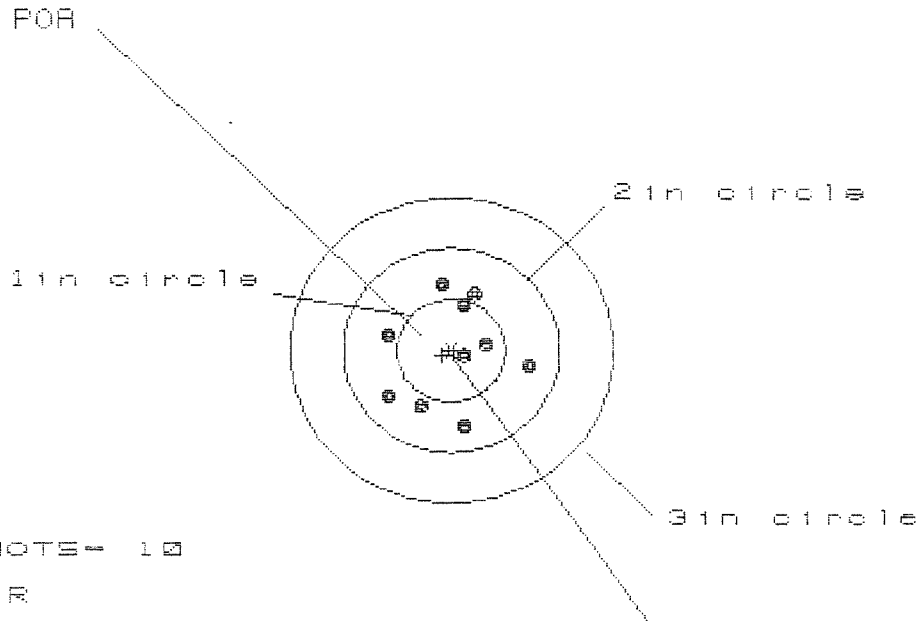
GS= 2.695

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.121	1.044	.685
MINIMUM X	-.887	-.963	-.833
MAXIMUM Y	1.263	1.128	1.208
MINIMUM Y	-1.217	-1.315	-1.235
CENTROID X	-.176	-.099	-.229
CENTROID Y	-.226	-.091	-.171
POA TO CENTROID in.	.286	.134	.286
MIN RADIUS	.101	.164	.118
MEAN RADIUS	.862	.806	.729
MAX RADIUS	1.400	1.427	1.412
HORIZONTAL SPREAD	2.007	2.007	1.518
VERTICAL SPREAD	2.480	2.443	2.443
EXTREME SPREAD	2.695	2.515	2.515
NUMBER IN ONE INCH CIRCLE =	3		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	10		

13 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8498852

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1in = 2

2in = 10

3in = 10

HSI= 1.368

VS= 1.440

GS= 1.451

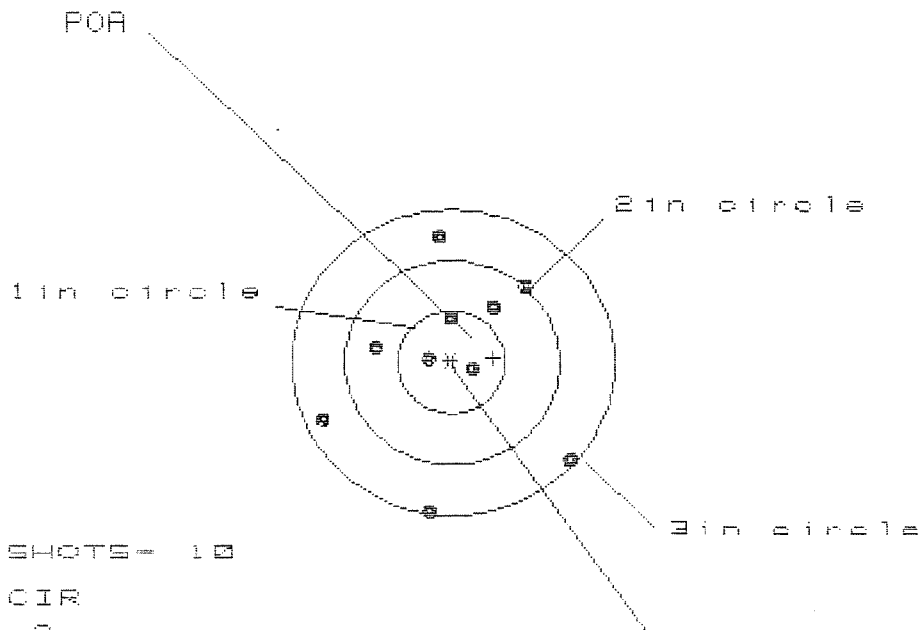
CENTROID #

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.757	.689	.322
MINIMUM X	:	-.611	-.652	-.566
MAXIMUM Y	:	.694	.640	.610
MINIMUM Y	:	-.746	-.800	-.830
CENTROID X	:	.081	.149	.063
CENTROID Y	:	.047	.101	.131
POA TO CENTROID in.	:	.094	.180	.145
MIN RADIUS	:	.122	.085	.169
MEAN RADIUS	:	.583	.544	.527
MAX RADIUS	:	.784	.800	.835
HORIZONTAL SPREAD	:	1.368	1.341	.888
VERTICAL SPREAD	:	1.440	1.440	1.440
EXTREME SPREAD	:	1.451	1.451	1.451
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		10	
NUMBER IN THREE INCH CIRCLE	=		10	

13 Jun 1988

FILE:/PATTERNING/CENTERFIRE_PATT/06498852

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 3

2 in = 6

3 in = 10

HS= 2.271

VS= 2.701

GS= 2.702

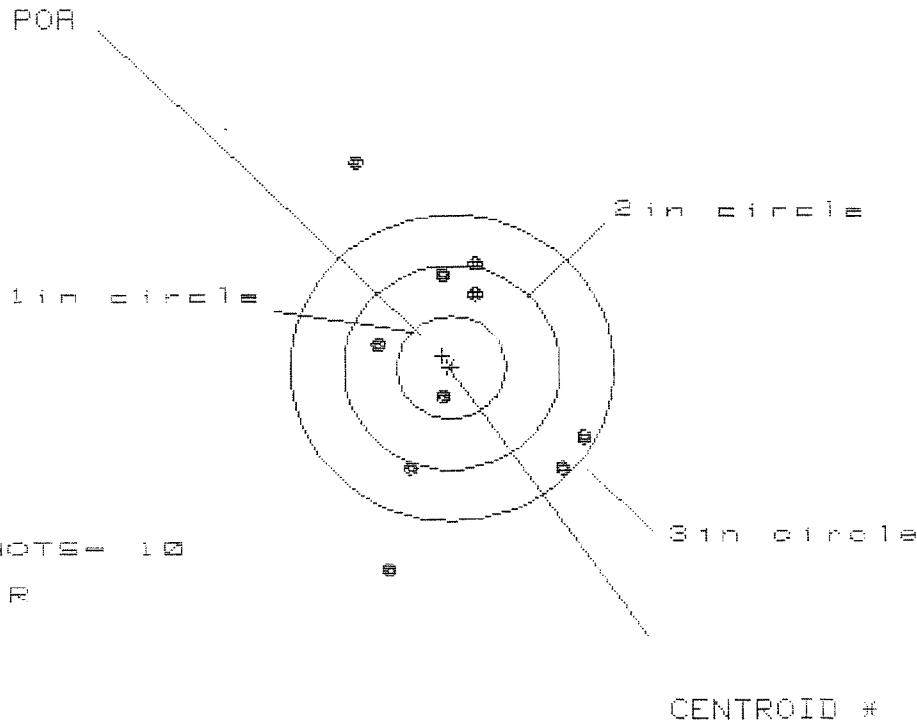
CENTROID #

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.095	.798	.786
MINIMUM X	:	-1.177	-1.055	-1.067
MAXIMUM Y	:	1.284	1.181	.991
MINIMUM Y	:	-1.417	-1.520	-.892
CENTROID X	:	-.390	-.511	-.499
CENTROID Y	:	-.040	.063	.253
POA TO CENTROID in.	:	.392	.515	.560
MIN RADIUS	:	.189	.117	.172
MEAN RADIUS	:	.859	.776	.667
MAX RADIUS	:	1.437	1.523	1.391
HORIZONTAL SPREAD	:	2.271	1.853	1.853
VERTICAL SPREAD	:	2.701	2.701	1.883
EXTREME SPREAD	:	2.702	2.702	2.257
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		10	

13 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/08438852

CENTERFIRE PATTERNS # 4



OF SHOTS= 10

IN CIR

1 in = 1

2 in = 4

3 in = 8

HS= 2.119

VS= 3.987

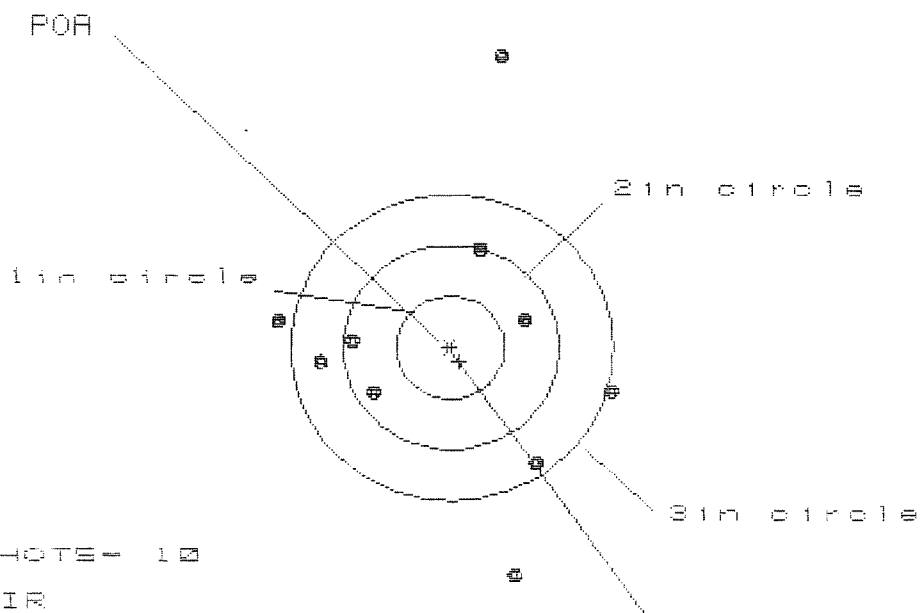
GS= 3.998

PATTERN #	4	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.240	1.142	1.058
MINIMUM X	-.879	-.735	-.819
MAXIMUM Y	2.031	1.246	1.030
MINIMUM Y	-1.956	-1.730	-1.001
CENTROID X	.079	.177	.261
CENTROID Y	-.119	-.345	-.129
POA TO CENTROID in.	.143	.388	.291
MIN RADIUS	.293	.205	.388
MEAN RADIUS	1.179	1.065	.952
MAX RADIUS	2.213	1.857	1.324
HORIZONTAL SPREAD	2.119	1.877	1.877
VERTICAL SPREAD	3.987	2.976	2.031
EXTREME SPREAD	3.998	3.085	2.235
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	8		

13 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6498852

CENTERFIRE PATTERNS # 5



OF SHOTS - 10

IN CIR

1in = 0

2in = 4

3in = 6

HSE = 3.126

VSE = 5.111

GSE = 5.112

CENTROID *

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.531	1.588	1.670
MINIMUM X	:	-1.595	-1.538	-1.456
MAXIMUM Y	:	2.867	1.277	1.836
MINIMUM Y	:	-2.244	-1.926	-1.818
CENTROID X	:	-.083	-.140	-.222
CENTROID Y	:	.136	-.182	.059
POA TO CENTROID in.	:	.159	.230	.229
MIN RADIUS	:	.736	.653	.665
MEAN RADIUS	:	1.444	1.264	1.133
MAX RADIUS	:	2.913	2.034	1.708
HORIZONTAL SPREAD	:	3.126	3.126	3.126
VERTICAL SPREAD	:	5.111	3.203	2.854
EXTREME SPREAD	:	5.112	3.309	3.198
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		6	