

67

C6498787

30

TRD

	
RECORDS CONTROL SCHEDULE	
RECORDS CATEGORY OR TITLE:	
	
	
COPY "O" (OFFICIAL) ☐ "X" (EXTRA) ☒	
TOTAL RETENTION: 	
	
GS-11050 Rev. 8/78	

61

C6498787

30

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

ated:
ex : 1

FFL

Close

Serial Number:

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6498787.___0
FILE DATE AND TIME: 01/21/2004 09:02

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

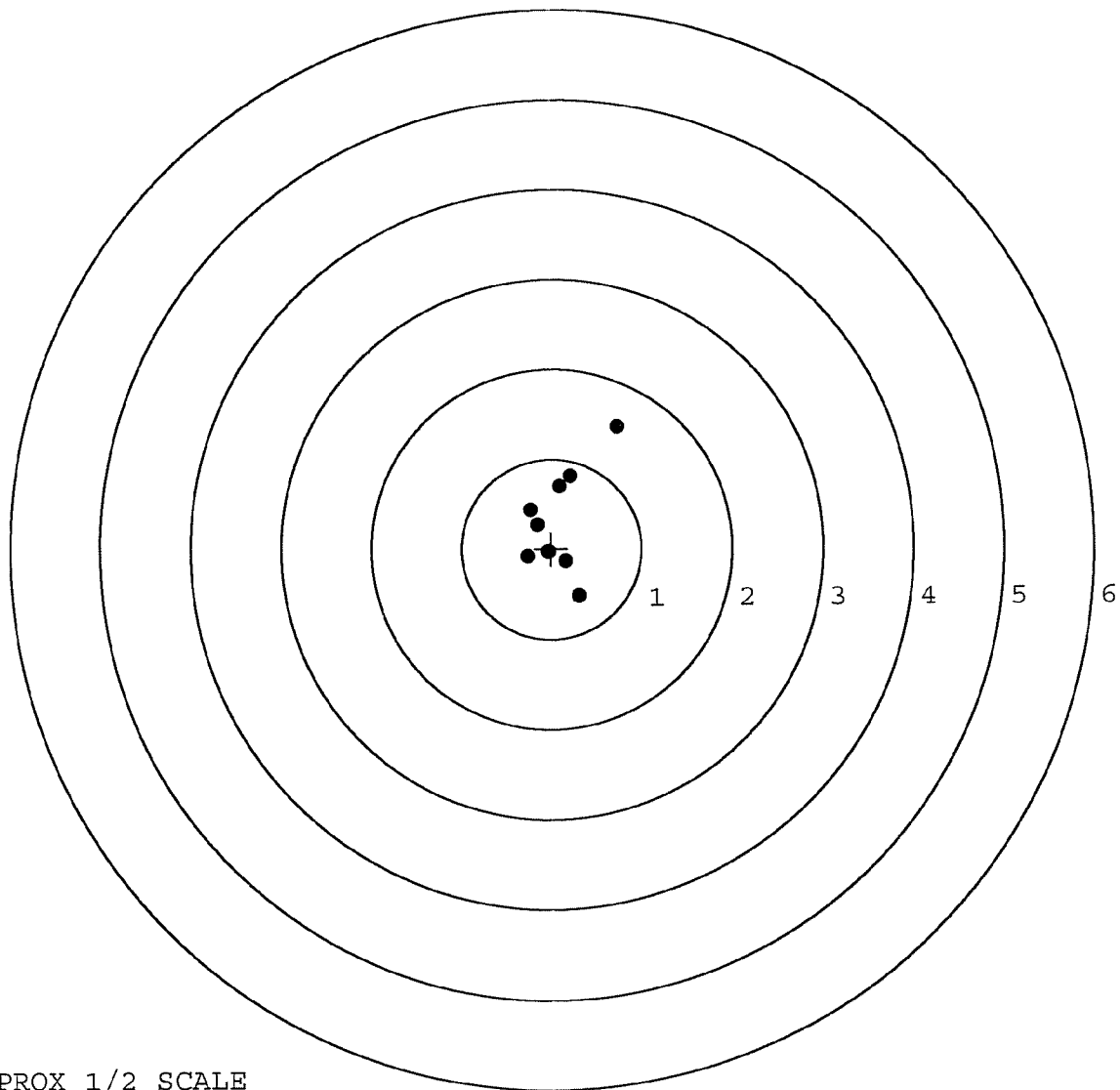
The Average X Centroid of the Five Target Set:	-0.001
The Average Y Centroid of the Five Target Set:	0.061
The Average Point of Impact of the Five Target Set:	0.061
The Average Mean Radius of the Five Target Set:	0.598
The Distance from POA to Centroid Target #1:	0.286
The Distance from Centroid Target #2 to Centroid Target #1:	0.343
The Distance from Centroid Target #3 to Centroid Target #1:	0.288
The Distance from Centroid Target #4 to Centroid Target #1:	0.217
The Distance from Centroid Target #5 to Centroid Target #1:	0.456

BARBER - M24 0007750

SERIAL NUMBER: C6498787. 0
 TARGET NUMBER: 1
 FILE DATE: 01/21/2004
 FILE TIME: 09:02

POINT#	X	Y
1:	0.740	1.359
2:	0.220	0.807
3:	0.099	0.694
4:	-0.227	0.439
5:	-0.155	0.273
6:	-0.261	-0.090
7:	-0.028	-0.036
8:	0.164	-0.142
9:	0.307	-0.527
10:	-0.045	-0.037

X CENTROID: 0.081
 Y CENTROID: 0.274
 POA TO CENTROID: 0.286
 HORZ SPREAD: 1.001
 VERT SPREAD: 1.886
 GROUP SPREAD: 1.935
 MIN RADIUS: 0.236
 MAX RADIUS: 1.269
 MEAN RADIUS: 0.525
 # IN 1 IN DIAMETER: 7
 # IN 2 IN DIAMETER: 9
 # in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

BARBER - M24 0007751

SERIAL NUMBER: C6498787. __0

TARGET NUMBER: 2

FILE DATE: 01/21/2004

FILE TIME: 09:02

POINT#	X	Y
1:	-0.292	0.440
2:	-0.782	0.214
3:	-0.652	-0.509
4:	0.019	-0.662
5:	0.496	-0.953
6:	0.533	-0.118
7:	0.629	0.709
8:	0.197	-0.041
9:	-0.133	-0.079
10:	-0.318	0.495

X CENTROID: -0.030

Y CENTROID: -0.050

POA TO CENTROID: 0.059

HORZ SPREAD: 1.411

VERT SPREAD: 1.662

GROUP SPREAD: 1.731

MIN RADIUS: 0.107

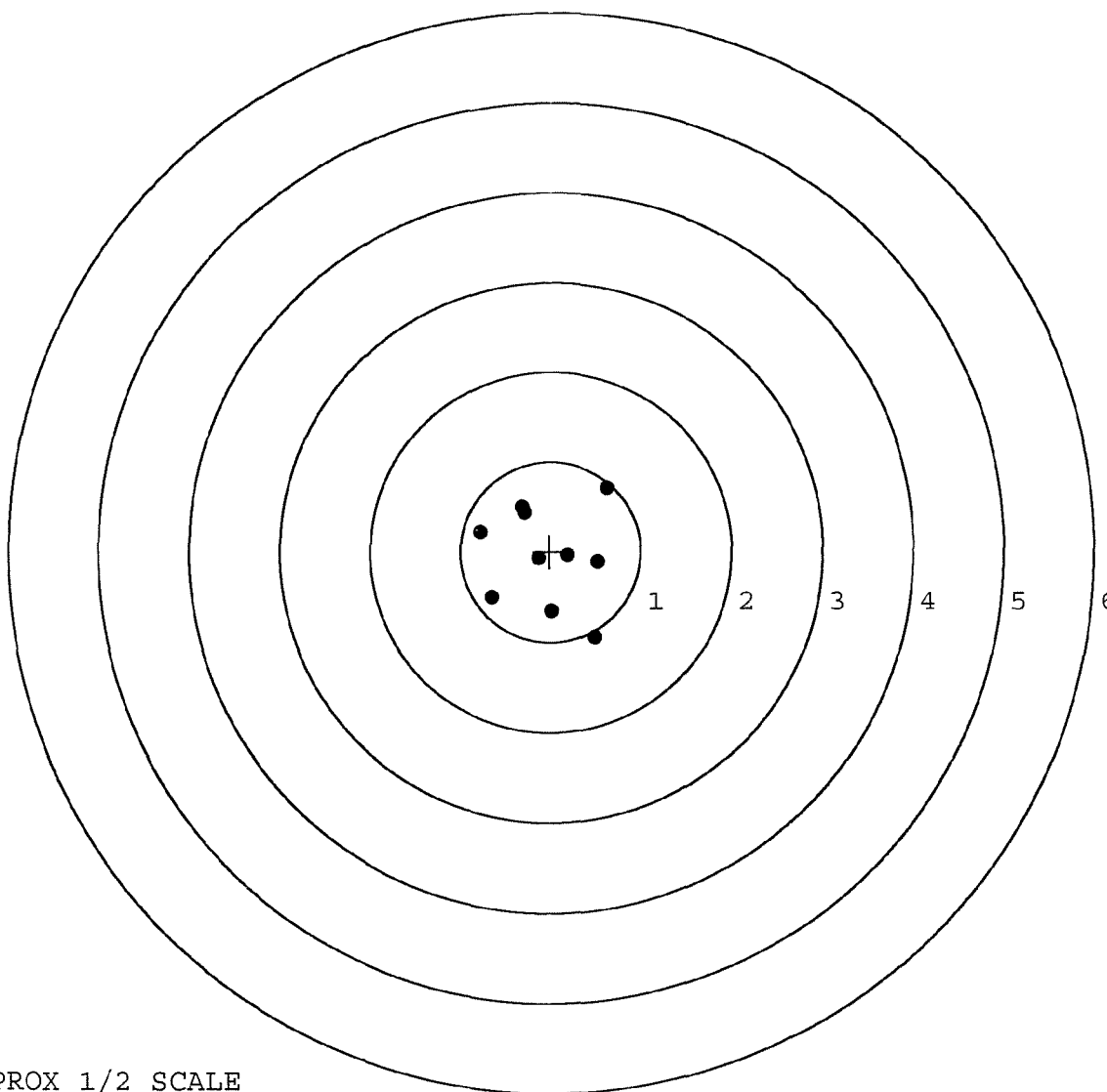
MAX RADIUS: 1.045

MEAN RADIUS: 0.631

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10



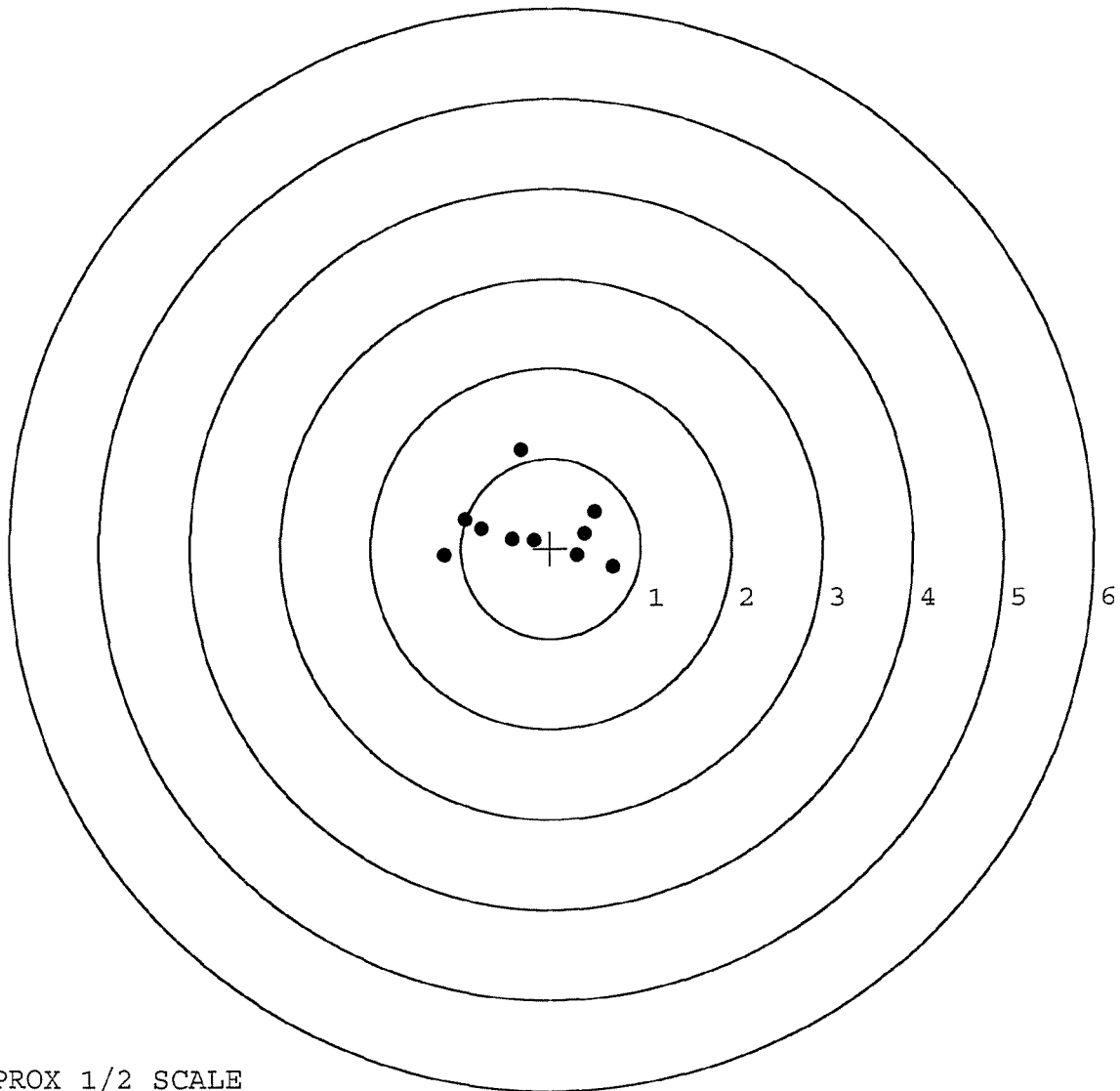
TARGET APPROX 1/2 SCALE

BARBER - M24 0007752

SERIAL NUMBER: C6498787. 0
 TARGET NUMBER: 3
 FILE DATE: 01/21/2004
 FILE TIME: 09:02

POINT#	X	Y
1:	-0.328	1.096
2:	-0.958	0.322
3:	-0.778	0.221
4:	-1.175	-0.086
5:	-0.426	0.103
6:	-0.186	0.090
7:	0.492	0.411
8:	0.380	0.171
9:	0.300	-0.083
10:	0.699	-0.207

X CENTROID: -0.198
 Y CENTROID: 0.204
 POA TO CENTROID: 0.284
 HORZ SPREAD: 1.874
 VERT SPREAD: 1.303
 GROUP SPREAD: 1.878
 MIN RADIUS: 0.114
 MAX RADIUS: 1.019
 MEAN RADIUS: 0.649
 # IN 1 IN DIAMETER: 2
 # IN 2 IN DIAMETER: 9
 # in 3 IN DIAMETER: 10



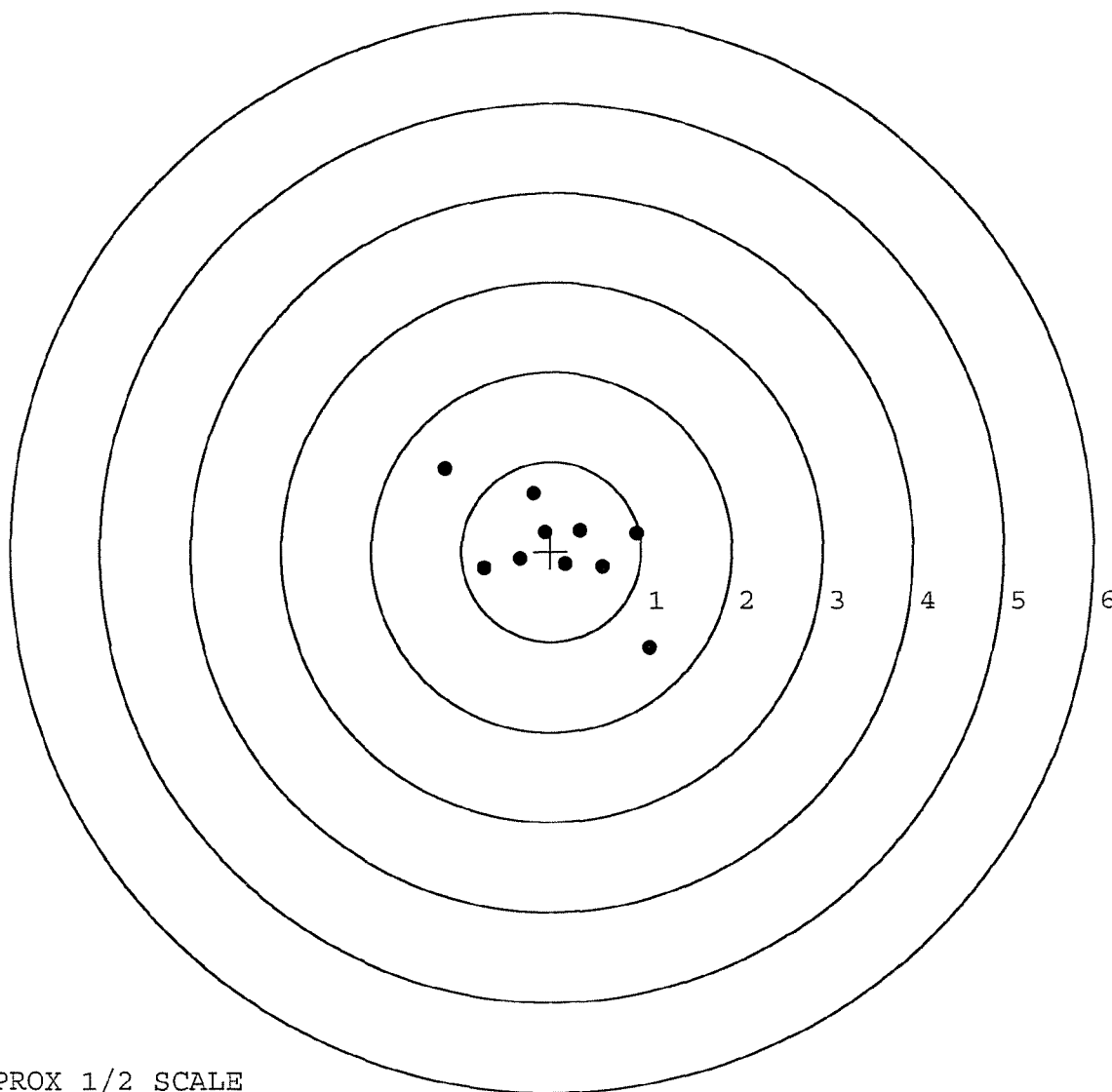
TARGET APPROX 1/2 SCALE

BARBER - M24 0007753

SERIAL NUMBER: C6498787. __0
 TARGET NUMBER: 4
 FILE DATE: 01/21/2004
 FILE TIME: 09:02

POINT#	X	Y
1:	-1.179	0.926
2:	-0.198	0.653
3:	-0.744	-0.185
4:	1.091	-1.077
5:	0.953	0.204
6:	0.579	-0.171
7:	0.321	0.238
8:	-0.061	0.219
9:	-0.342	-0.085
10:	0.162	-0.144

X CENTROID: 0.058
 Y CENTROID: 0.058
 POA TO CENTROID: 0.082
 HORZ SPREAD: 2.270
 VERT SPREAD: 2.003
 GROUP SPREAD: 3.027
 MIN RADIUS: 0.200
 MAX RADIUS: 1.534
 MEAN RADIUS: 0.718
 # IN 1 IN DIAMETER: 4
 # IN 2 IN DIAMETER: 8
 # in 3 IN DIAMETER: 8

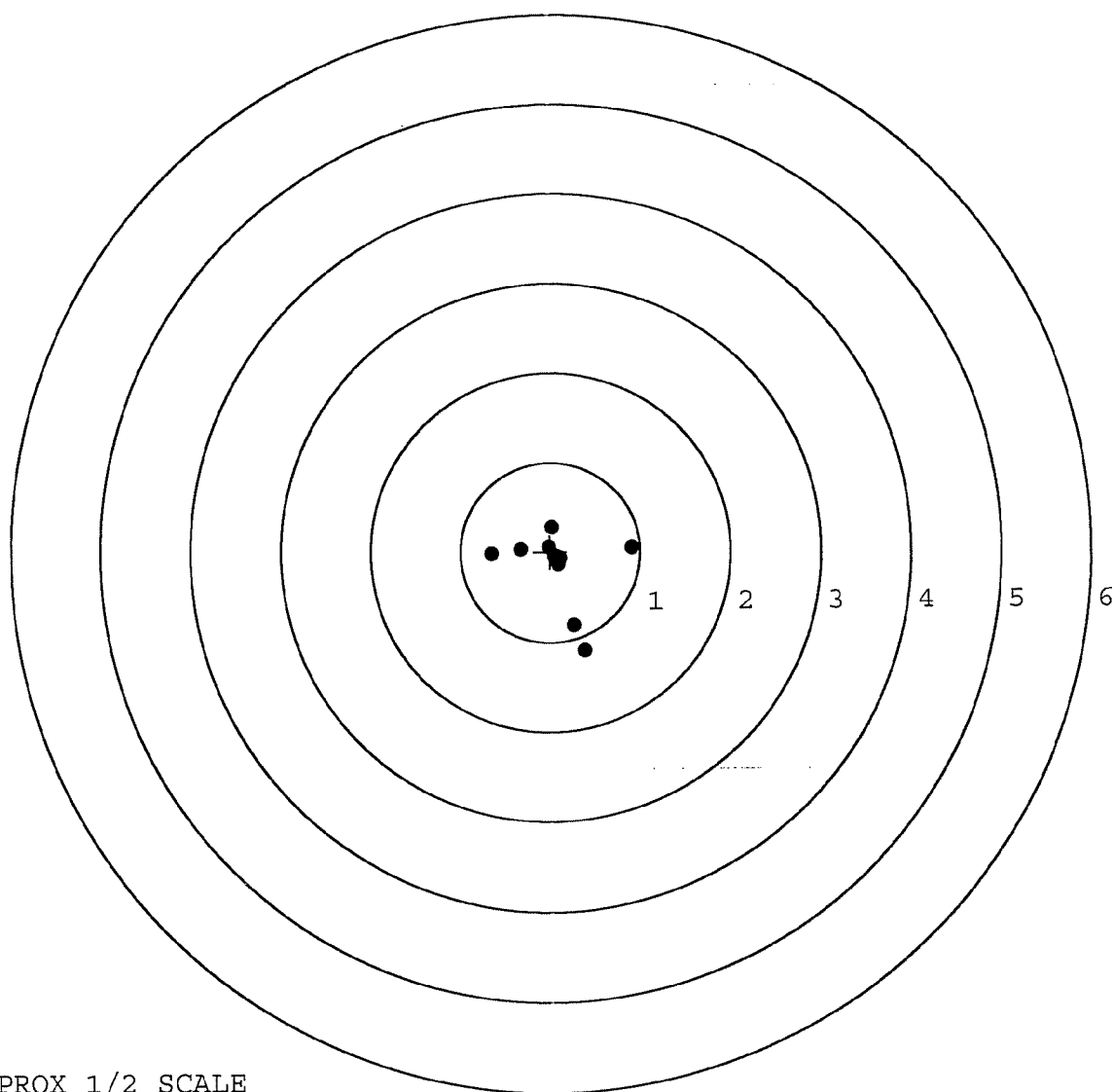


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498787. __0
 TARGET NUMBER: 5
 FILE DATE: 01/21/2004
 FILE TIME: 09:02

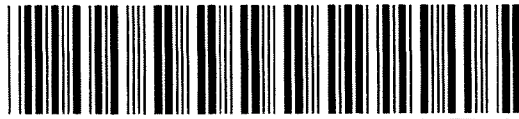
POINT#	X	Y
1:	0.913	0.042
2:	0.260	-0.818
3:	0.381	-1.096
4:	0.020	0.268
5:	-0.331	0.028
6:	-0.657	-0.025
7:	0.087	-0.143
8:	0.053	-0.047
9:	0.111	-0.079
10:	-0.018	0.049

X CENTROID: 0.082
 Y CENTROID: -0.182
 POA TO CENTROID: 0.200
 HORZ SPREAD: 1.570
 VERT SPREAD: 1.364
 GROUP SPREAD: 1.491
 MIN RADIUS: 0.039
 MAX RADIUS: 0.962
 MEAN RADIUS: 0.469
 # IN 1 IN DIAMETER: 6
 # IN 2 IN DIAMETER: 10
 # in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

[illegible]

Serial Number: **C6498787**Model: **700****RE00004856**

Arms Services Repair & Estimate System

File Add Repair Estimate Repair Expedite Repair Inquiry Repair Tools CSR Tools Reports Table Maintenance System Maintenance Help

Repair Inquiry

Repair Number: **RE00004856** Serial: C6498787 Model: 700 Center Fire Caliber: 7.62 M-24 (SWS) Repairman: Status: New 2/16/00 7:53:10 AM

Address Information

Customer: ☒ Received From Return To: ☐ Received From

Name: **TRANSPORTATION OFFICER** **TRANSPORTATION OFFICER**

Address 1: **ATTN: AFZB-DL-T0** **ATTN: AFZB-DL-T0**

Address 2: **BLDG. 873** **BLDG. 873** PO Box: **PO Box:**

City: **FORT CAMPBELL** **FORT CAMPBELL**

State: **KY** Zip Code: **422231294** Country: **US** State: **KY** Zip Code: **422231294** Country: **US**

FFL: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Contact / Condition **Problems** **Estimate** **History / Status** **Shipping / Billing**

Contact Information

Phone:

Fax:

Email:

Comments:

Received Condition

Fair

Condition Notes:

CSR Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	2
A008	With Swivel	2
A017	Scope Base	1

Repair Search **Refresh** **Close**

nagletj 2/16/00 8:53 AM CAPS NUM IWS SCRL

Start In... N... S... M... Mi... Ex... A... FL... D... U... S... Pri... 8:53 AM

BBL - 96003

BARBER - M24 0007757

Remington Test Lab, Ilion, N.Y.

Centroidal distance calculations for Rifle # c6498787
24 Apr 2000

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.069
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .2056
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .216869

THE AMR FOR THIS RIFLE IS: 1.035

CENTROIDAL DISTANCES

Ø TO	1	.650496
1 TO	2	1.1866
1 TO	3	.645914
1 TO	4	1.35504
1 TO	5	.474494

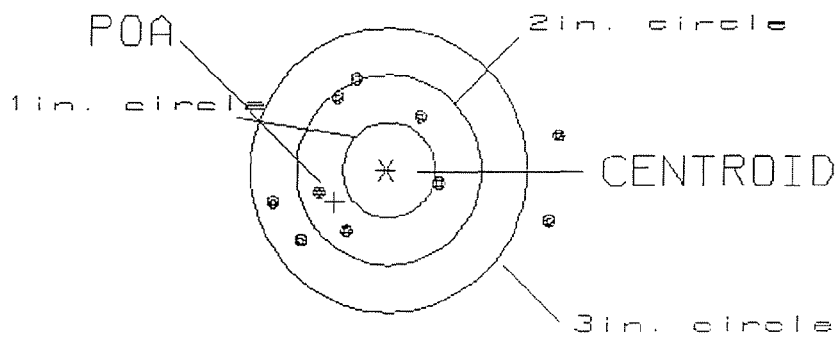
4
3 1
+ 5 <----POA
2

PATTERN #: ☐ 1 ☐
 POA TO CENTROID: .651
 MIN RADIUS : .563
 MEAN RADIUS : 1.098
 MAX RADIUS : 1.847
 CENTROID X : .557
 CENTROID Y : .336

24 Apr 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/C6498787

CENTERFIRE PATTERN # 1



OF SHOTS= 10

IN CIRCLE

HS= 3.09
 VS= 1.71
 GS= 3.18

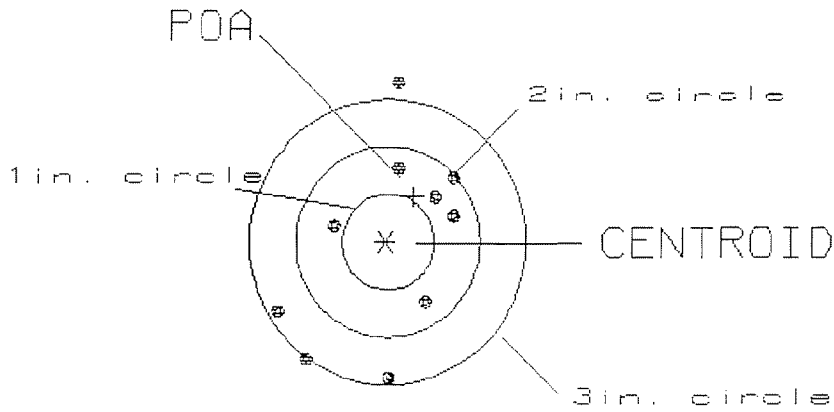
0
 5
 8

PATTERN #: [2]
 POA TO CENTROID: .565
 MIN RADIUS : .598
 MEAN RADIUS : 1.046
 MAX RADIUS : 1.641
 CENTROID X : -.312
 CENTROID Y : -.472

24 Apr 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/C6498787

CENTERFIRE PATTERN # 2



OF SHOTS= 10

IN CIRCLE

HS= 1.89
 VS= 3.06
 GS= 3.06

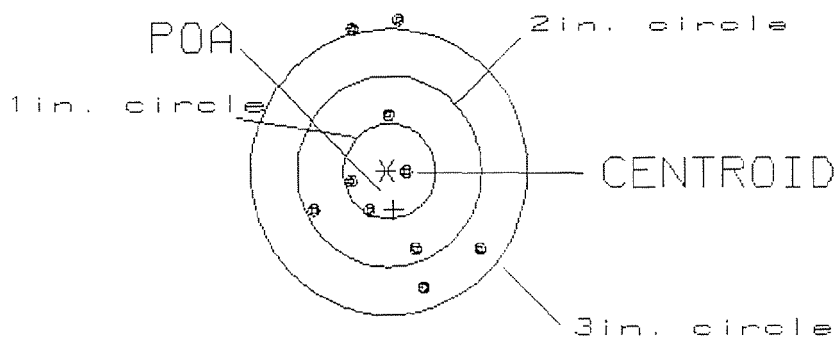
0
 6
 8

PATTERN #: 3
 POA TO CENTROID: .416
 MIN RADIUS : .190
 MEAN RADIUS : .903
 MAX RADIUS : 1.595
 CENTROID X : -.085
 CENTROID Y : .407

24 Apr 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/C6498787

CENTERFIRE PATTERN # 3



OF SHOTS= 10

IN CIRCLE

HS= 1.76

3

VS= 2.60

6

GS= 2.82

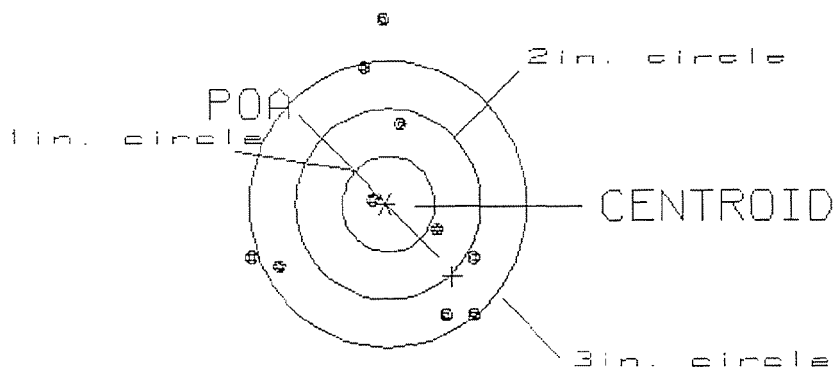
8

PATTERN #: 4
 POA TO CENTROID: 1.053
 MIN RADIUS : .226
 MEAN RADIUS : 1.182
 MAX RADIUS : 1.919
 CENTROID X : -.730
 CENTROID Y : .760

24 Apr 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/C6498787

CENTERFIRE PATTERN # 4



OF SHOTS= 10

IN CIRCLE

HS= 2.41
 VS= 3.05
 GS= 3.20

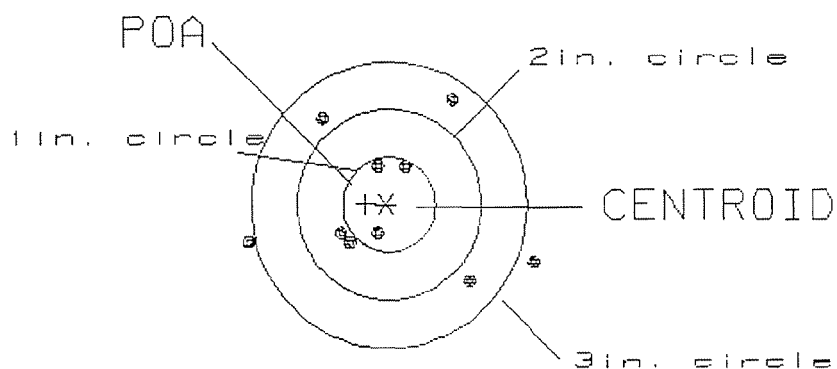
1
 3
 6

PATTERN #: 5
 POA TO CENTROID: .225
 MIN RADIUS : .359
 MEAN RADIUS : .947
 MAX RADIUS : 1.741
 CENTROID X : .225
 CENTROID Y : -.003

24 Apr 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/C6498787

CENTERFIRE PATTERN # 5



OF SHOTS= 10

IN CIRCLE

HS= 3.15

3

VS= 1.98

5

GS= 3.15

8

Final Inspection

Sn: C6498787

DATE REC'D: 2-16-00

DATE RET'D:

AUDITOR: RW

Item:

BARREL ASSY.

☒ BARREL☒ RECEIVER☒ FRONT SIGHT BLOCK☒ REAR SIGHT BLOCK☒ SCREWS☒ FINISH

SCOPE ASSY.

☐ SCOPE☐ SCOPE RINGS☐ MOUNTING SCREWS☒ MOUNTING BASE☒ SCREWS☐ FINISH☐ LOOSENESS☐ CLARITY

MISC.

☐ DD-250☐ BAR CODE☐ PACKAGING

Item:

STOCK ASSY.

☒ STOCK☒ SLING SWIVEL STUDS☒ ADJUSTABLE BUTT PLATE☒ LOCK NUTS☒ BARREL CLEARANCE☒ COLOR/FINISH

SYSTEMS CASE

☐ SCOPE CASE☐ IRON SIGHTS☐ DEPLOYMENT KIT

TRIGGER

☒ SAFETY OPERATION☒ SET

Comments:

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

R & E NUMBER <u>00004856</u>			
SERIAL NUMBER <u>C6498787</u>			
LOG-IN DATE <u>2-16-00</u>			
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	2-18-00	RW
560 A	RE-BARREL AT CUSTOM SHOP		
B	DRILL AND TAP		
C	POLISH		
575	ASSEMBLE		
600	PROOF	2-28-00	RW
605	CHECK HEADSPACE	2-28-00	RW
610	DIS-ASSEMBLE GUN		
612	MAGNAFLUX		
615	ROLLMARK CALIBER		
618	ROTO-BLAST		
620	APPLY COATINGS		
625 A	FINAL ASSEMBLY		
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE		
D	SAFETY "OFF" FORCE		
E	FIRING PIN INDENT		
640	TARGET	4-24-00	RW
655	FINAL INSPECT	4-25-00	RW
660	PACK		
		SHIP DATE	
QAR INSPECTION DATE			



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

MODEL 700™ M24	SERIAL NO. C6498787
	ORDER NO. 5716

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

01



5716 C6498787

UPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C 6498787

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	5 9 90		RW
600	Proof	5 9 90		RW
607	Check Headspace	5 9 90		RW
610	Dis-assemble Gun	5 9 90		RW
612	Magnaflux Barrel Action	5-15-90		ReR
	Magnaflux Bolt	5-15-90		ReR
615	Rollmark Caliber	5-15-90		GS
617	Drill and Tap Sight Holes		5/17/90	KB
618	Polish Barrel RB		5/17/90	WB
620	Apply Coatings (Barrel Action)		5-25-90	JA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		5/25/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		5/25/90	RW
	C) Inspect Ejector Hole for Chamfer		5/25/90	RW
	D) Oil Firing Pin Ass'y		5/25/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		6/1/90	HL

BARBER - M24 0007767								
op. #	OP. NAME	READINGS			DATE	INIT		
625 cont.	F) Safety On Force	4	4	4	6-5-90	RL		
	G) Safety Off Force	3	3	3	6-5-90	RL		
	H) Trigger Pull Test & Retainability				6/1/90	RL		
	I) Firing Pin Indent	.024	.024	.024	6-5-90	RL		
	J) Assemble Stock				6/5/90	RL		
	K) Assemble Swivel Studs				6/5/90	RL		
	L) Attach Front and Rear Sight Assemblies				6/5/90	RL		
	M) Iron Sight Alignment				6/5/90	RL		
	N) Detach Front & Rear Sights & place in numbered container				6/5/90	RL		
	O) Attach Scope to Rifle				6/5/90	W.B		
	P) Detach & Attach Scope 20 Times				6/5/90	W.B		
640	Gallery Target & Test				6-5-90	AC		
	A) Time				6-5-90	AC		
	B) Malfunctions				6-5-90	AC		
	C) Pierced Primers				6-5-90	AC		
	D) Optical Clarity of Scope				6-5-90	AC		
645	Inspect for Live Ammo				6-5-90	AC		
655	Final Inspection							
	A) Headspace				6/15/90	RL		
	B) Trigger Pull	2.27	2.28	2.24	2.31	2.39	6/14/90	RL
	C) Function						6/15/90	RL
660	Pack						6-5-90	DL

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6498787

DATE 6/1/90

TESTER JEL

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.50	2.49	2.40	2.27	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.50	2.54	2.43	2.28	
PULL #3	2.38	2.48	2.50	2.24	
PULL #4	2.39	2.52	2.43	2.31	
PULL #5	2.46	2.43	2.35	2.39	
TOTAL	12.23	12.46	12.11		
AVG.	2.446	2.492	2.422		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.34	3.48		
PULL #2	3.56	3.50		
PULL #3	3.29	3.53		
PULL #4	3.54	3.36		
PULL #5	3.43	3.40		
TOTAL	17.16	17.27		
AVG.	3.432	3.454		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.25	4.18		4.41
PULL #2	4.20	4.24		4.42
PULL #3	4.29	4.50		4.53
PULL #4	4.19	4.42		4.29
PULL #5	4.22	4.41		4.25
TOTAL	21.15	21.75		21.90
AVG.	4.23	4.35		4.38

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6498787
6 Jun 1990

CENTROIDAL DISTANCES

0 TO	1	.523116
1 TO	2	.46682
1 TO	3	.295736
1 TO	4	.384105
1 TO	5	.7973

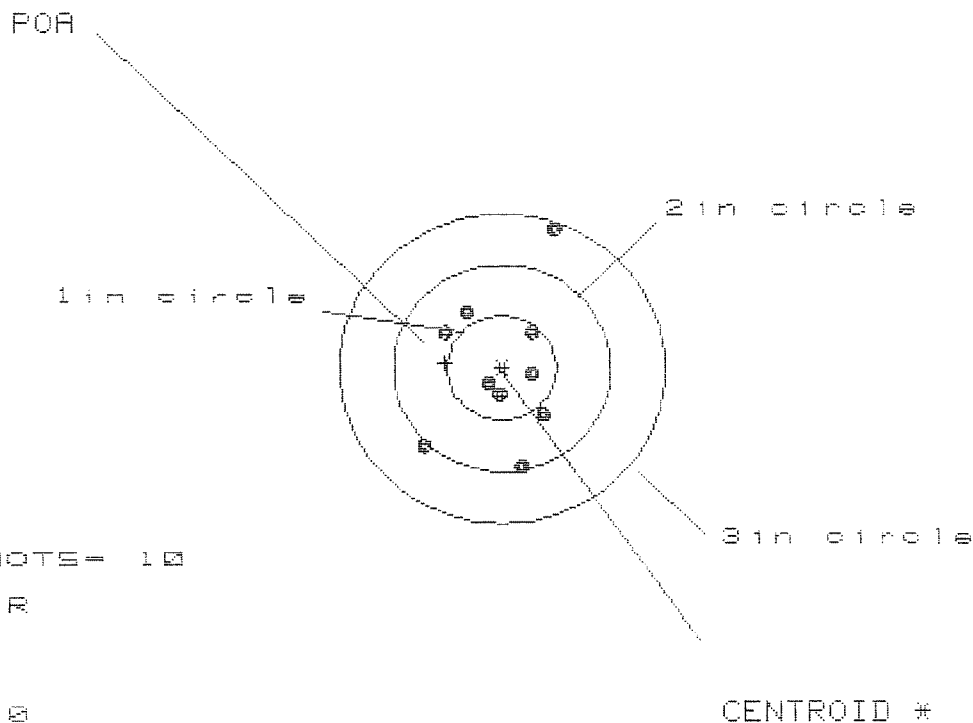
+1 (----POA
5 24

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .2828
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.3168
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .424662
THE AMR FOR THIS RIFLE IS: .8028

6 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C849B7B7

CENTERFIRE PATTERNS # 1



OF SHOTS= 10

IN CIR

1 in = 4

2 in = 8

3 in = 10

HS= 1.250

VS= 2.271

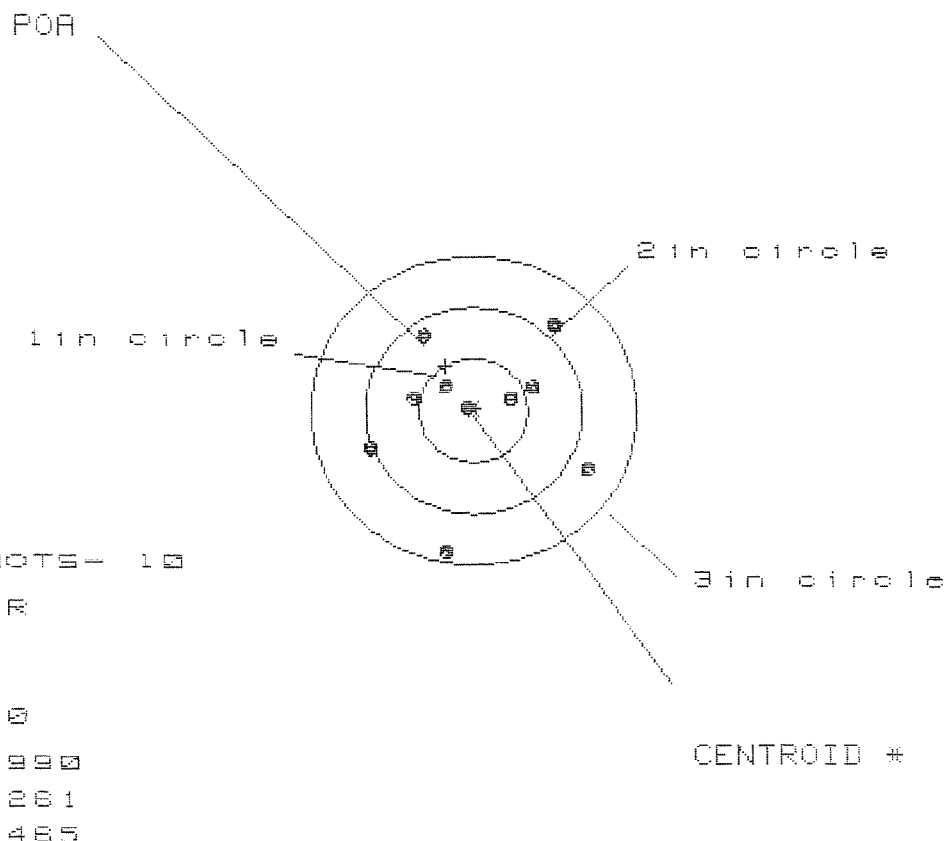
GS= 2.492

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.508	.433	.346
MINIMUM X	-.751	-.694	-.541
MAXIMUM Y	1.358	.667	.587
MINIMUM Y	-.913	-.762	-.842
CENTROID X	.521	.464	.551
CENTROID Y	-.047	-.198	-.118
POA TO CENTROID in.	.523	.505	.564
MIN RADIUS	.175	.061	.158
MEAN RADIUS	.654	.545	.491
MAX RADIUS	1.450	.945	.855
HORIZONTAL SPREAD	1.259	1.127	.887
VERTICAL SPREAD	2.271	1.429	1.429
EXTREME SPREAD	2.492	1.575	1.507
NUMBER IN ONE INCH CIRCLE =	4		
NUMBER IN TWO INCH CIRCLE =	8		
NUMBER IN THREE INCH CIRCLE =	10		

6 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06498787

CENTERFIRE PATTERNS # 2

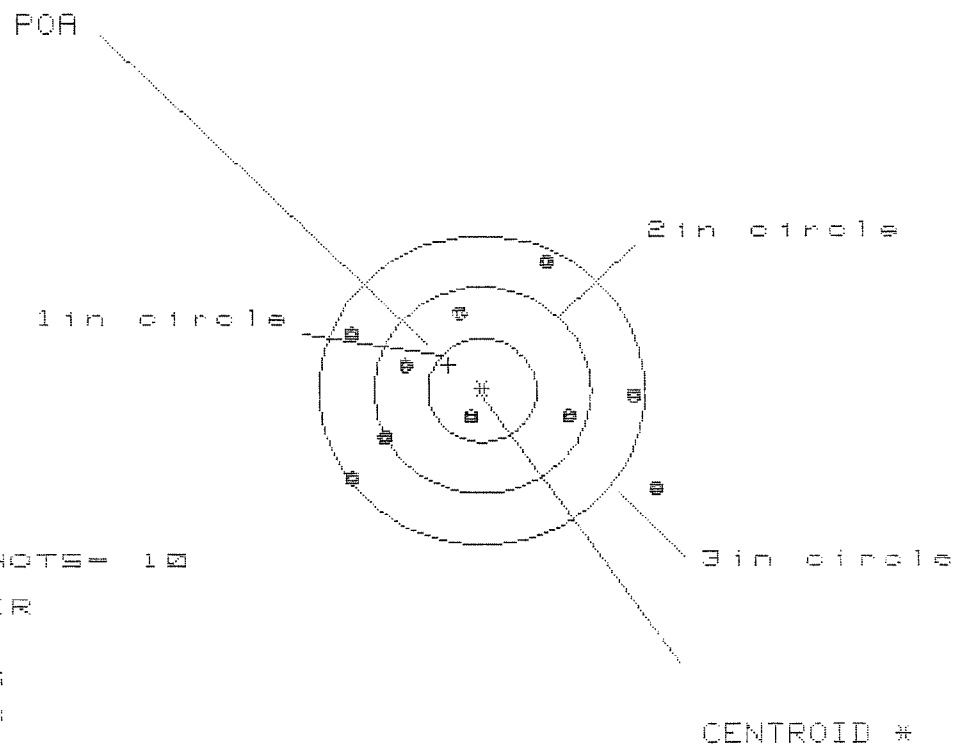


PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.005	.978	.838
MINIMUM X	:	-.985	-1.012	-.889
MAXIMUM Y	:	.852	.696	.606
MINIMUM Y	:	-1.409	-.720	-.616
CENTROID X	:	.257	.284	.161
CENTROID Y	:	-.432	-.276	-.186
POA TO CENTROID in.	:	.503	.396	.246
MIN RADIUS	:	.072	.104	.137
MEAN RADIUS	:	.759	.669	.589
MAX RADIUS	:	1.429	1.215	1.082
HORIZONTAL SPREAD	:	1.990	1.990	1.727
VERTICAL SPREAD	:	2.261	1.416	1.222
EXTREME SPREAD	:	2.465	2.116	2.116
NUMBER IN ONE INCH CIRCLE =			3	
NUMBER IN TWO INCH CIRCLE =			6	
NUMBER IN THREE INCH CIRCLE =			10	

6 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8498787

CENTERFIRE PATTERNS # 3



OF SHOTS= 10

IN CIR

1in = 1

2in = 5

3in = 8

HS= 2.841

VS= 2.150

GS= 3.153

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.609	1.548	1.416
MINIMUM X	:	-1.232	-1.053	-1.163
MAXIMUM Y	:	1.237	1.135	1.013
MINIMUM Y	:	-.913	-.978	-.647
CENTROID X	:	.305	.126	.258
CENTROID Y	:	-.249	-.147	-.025
POA TO CENTROID in.	:	.393	.194	.259
MIN RADIUS	:	.282	.353	.480
MEAN RADIUS	:	1.102	.993	.943
MAX RADIUS	:	1.850	1.557	1.446
HORIZONTAL SPREAD	:	2.841	2.601	2.579
VERTICAL SPREAD	:	2.150	2.113	1.660
EXTREME SPREAD	:	3.153	2.784	2.641
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		8	

8 Jun 1998

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CENTERFIRE PATTERNS

4

POA

1 in circle

2 in circle

2 in circle

CENTROID *

OF SHOTS - 10

IN CIR

1 in = 3

2 in = 6

3 in = 10

HS = 2.003

VS = 1.866

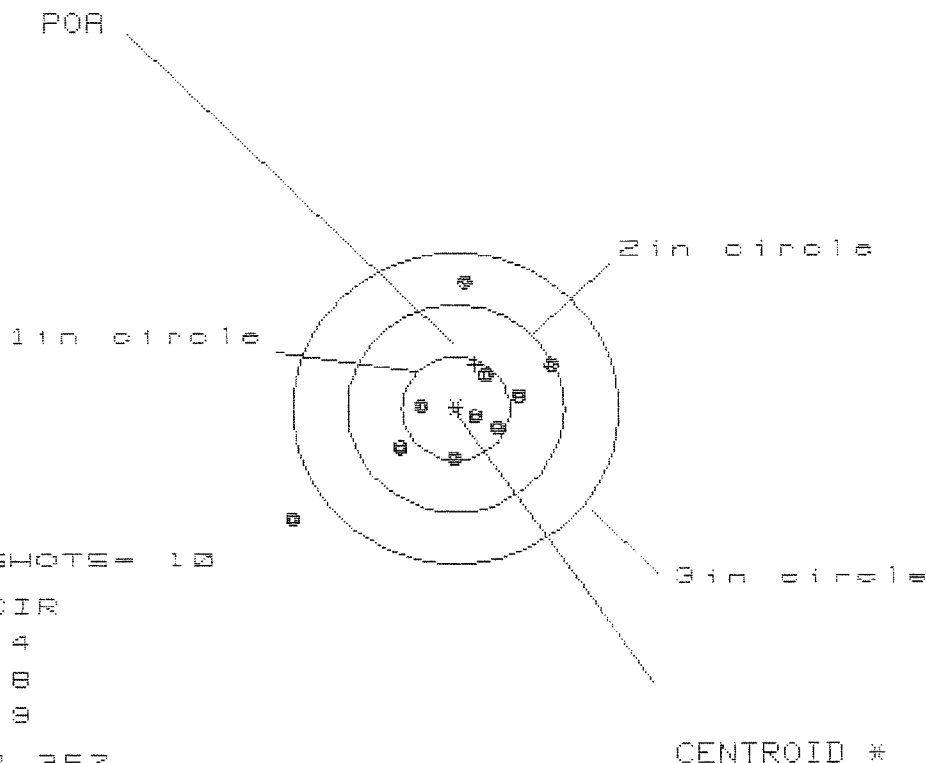
GS = 2.577

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.913	.817	.910
MINIMUM X	:	-1.090	-1.186	-1.084
MAXIMUM Y	:	.875	.765	.416
MINIMUM Y	:	-.990	-.725	-.629
CENTROID X	:	.512	.608	.506
CENTROID Y	:	-.431	-.321	-.417
POA TO CENTROID in.	:	.670	.688	.656
MIN RADIUS	:	.266	.320	.270
MEAN RADIUS	:	.782	.715	.654
MAX RADIUS	:	1.314	1.187	1.106
HORIZONTAL SPREAD	:	2.003	2.003	1.994
VERTICAL SPREAD	:	1.866	1.490	1.045
EXTREME SPREAD	:	2.577	2.138	2.138
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		10	

6 Jun 1988

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CENTERFIRE PATTERNS # 5



OF SHOTS = 10

IN CIR

1in = 4

2in = 8

3in = 9

HS = 2.367

VS = 2.314

GS = 2.821

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.857	.690	.682
MINIMUM X	:	-1.510	-.681	-.689
MAXIMUM Y	:	1.258	1.140	.493
MINIMUM Y	:	-1.056	-.630	-.487
CENTROID X	:	-.181	-.014	-.006
CENTROID Y	:	-.425	-.307	-.450
POA TO CENTROID in.	:	.462	.308	.450
MIN RADIUS	:	.173	.181	.041
MEAN RADIUS	:	.717	.567	.465
MAX RADIUS	:	1.843	1.142	.841
HORIZONTAL SPREAD	:	2.367	1.371	1.371
VERTICAL SPREAD	:	2.314	1.770	.980
EXTREME SPREAD	:	2.821	1.777	1.627
NUMBER IN ONE INCH CIRCLE =			4	
NUMBER IN TWO INCH CIRCLE =			8	
NUMBER IN THREE INCH CIRCLE =			9	