

C6348989

MODEL 700TM M24

Model **SMS**TM

Action _____

Barrel Length _____

Capacity _____

Order No. **5716**

*Includes 1 in chamber.



Smith
M24 9-14-7-51

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: **RE00112580** Serial: C6348989 Model: M24 SWS Center Fire
 Verify Repair: ☐ Caliber: 7.62 NATO Produced: 06/19/1990 Repairman:
 Status: Closed 5/19/2006 9:47:06 AM

Address Information

Customer: ☒ Received From Return To: ☐ Received From

Name: **TRANSPOTATION OFFICER** **TRANSPOTATION OFFICER**

Address 1: **ANNISTON ARMY DEPOT** **ANNISTON ARMY DEPOT**

Address 2: **EXIT BYNUM AL 36253** PO Box: **EXIT BYNUM AL 36253** PO Box: **EXIT BYNUM AL 36253**

City: **ANNISTON** **ANNISTON**

State: **AL** Zip Code: **36201** Country: **US** State: **AL** Zip Code: **36201** Country: **US**

FEL: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

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	1

Repair Search Refresh Close

maglet 5/23/2006 7:25 AM CAPS NUM INS SCRI

start 2 Mic... Microsoft... 2 Inter... Part Sea... Arms Se... 7:25 AM

Serial Number: **C6348989**

Model: **M24 SWS**



RE00112580

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6348989.__0

FILE DATE AND TIME: 06/09/2006 01:58

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

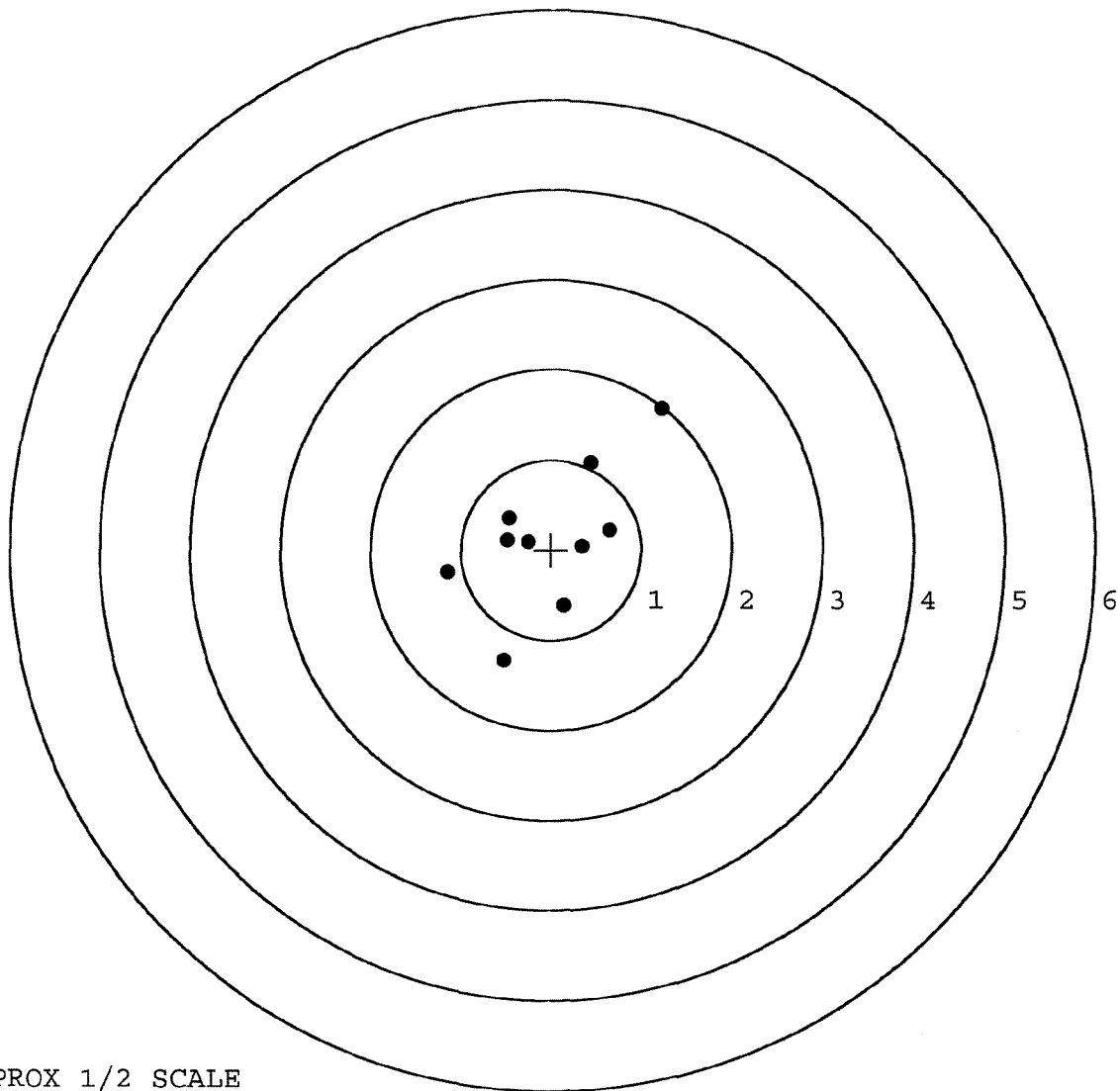
The Average X Centroid of the Five Target Set:	0.037
The Average Y Centroid of the Five Target Set:	-0.027
The Average Point of Impact of the Five Target Set:	0.046
The Average Mean Radius of the Five Target Set:	0.794
The Distance from POA to Centroid Target #1:	0.125
The Distance from Centroid Target #2 to Centroid Target #1:	0.111
The Distance from Centroid Target #3 to Centroid Target #1:	0.266
The Distance from Centroid Target #4 to Centroid Target #1:	0.309
The Distance from Centroid Target #5 to Centroid Target #1:	0.293

BARBER - M24 0043328

SERIAL NUMBER: C6348989. __0
 TARGET NUMBER: 1
 FILE DATE: 06/09/2006
 FILE TIME: 01:58

POINT#	X	Y
1:	1.215	1.561
2:	0.443	0.972
3:	0.147	-0.626
4:	-0.515	-1.230
5:	-1.141	-0.259
6:	-0.472	0.356
7:	-0.490	0.108
8:	-0.256	0.090
9:	0.345	0.046
10:	0.647	0.226

X CENTROID: -0.008
 Y CENTROID: 0.124
 POA TO CENTROID: 0.125
 HORZ SPREAD: 2.356
 VERT SPREAD: 2.791
 GROUP SPREAD: 3.284
 MIN RADIUS: 0.251
 MAX RADIUS: 1.886
 MEAN RADIUS: 0.853
 # IN 1 IN DIAMETER: 3
 # IN 2 IN DIAMETER: 7
 # in 3 IN DIAMETER: 9

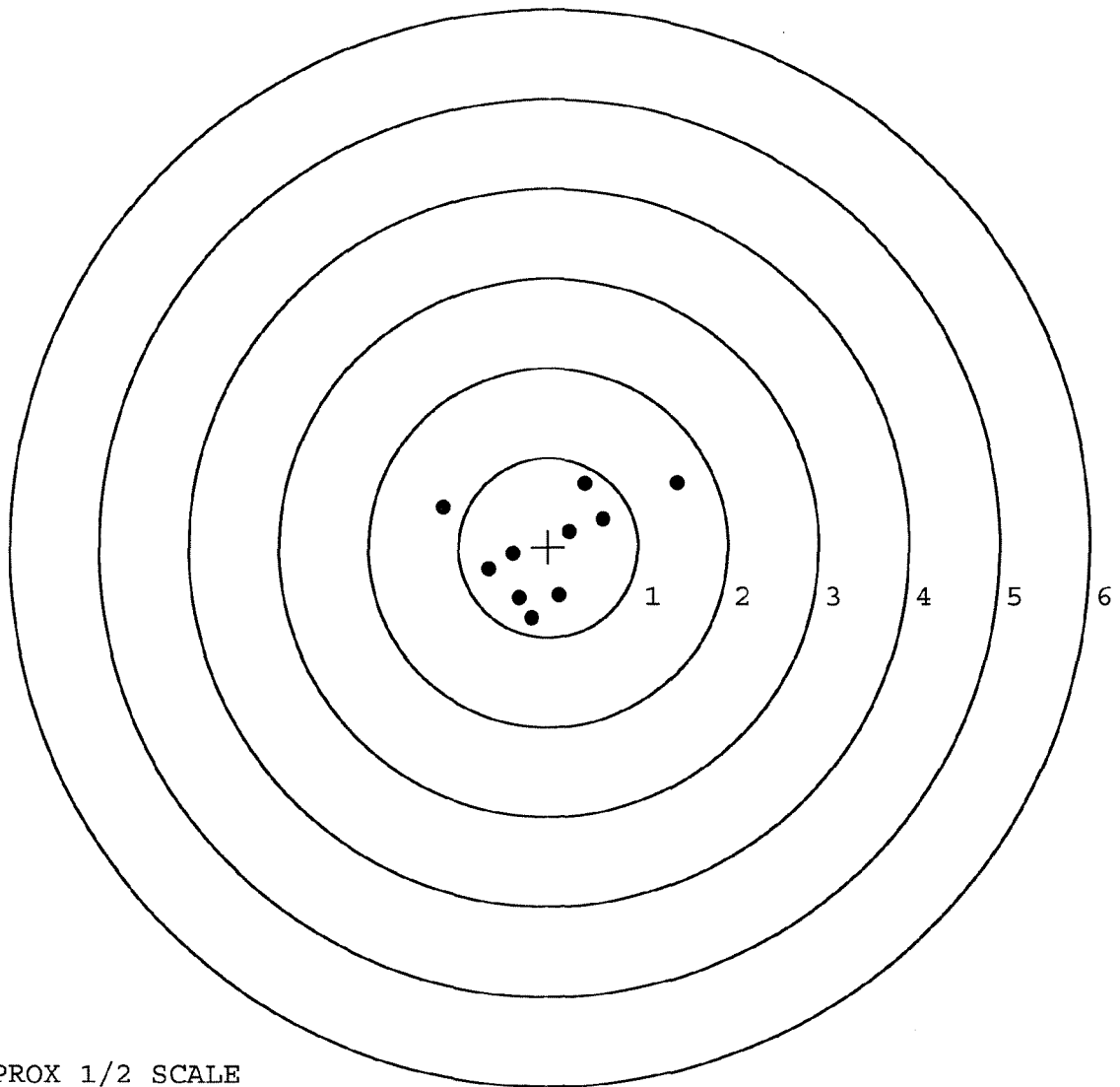


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6348989. __0
 TARGET NUMBER: 2
 FILE DATE: 06/09/2006
 FILE TIME: 01:58

POINT#	X	Y
1:	1.430	0.726
2:	0.412	0.718
3:	0.612	0.319
4:	0.234	0.175
5:	-1.167	0.445
6:	-0.388	-0.077
7:	-0.666	-0.250
8:	0.133	-0.541
9:	-0.180	-0.799
10:	-0.320	-0.567

X CENTROID: 0.010
 Y CENTROID: 0.015
 POA TO CENTROID: 0.018
 HORZ SPREAD: 2.597
 VERT SPREAD: 1.525
 GROUP SPREAD: 2.612
 MIN RADIUS: 0.275
 MAX RADIUS: 1.588
 MEAN RADIUS: 0.781
 # IN 1 IN DIAMETER: 2
 # IN 2 IN DIAMETER: 8
 # in 3 IN DIAMETER: 9



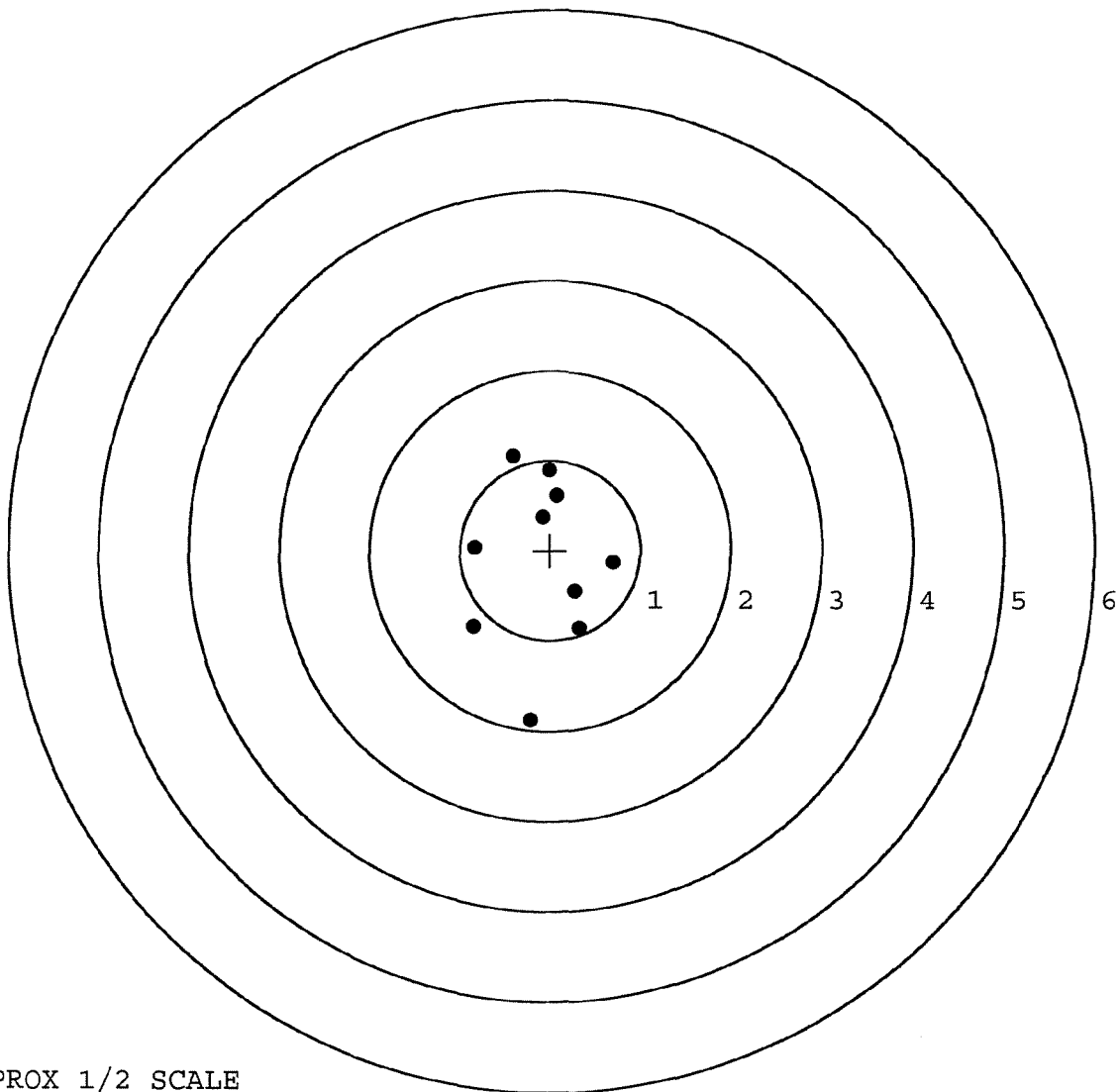
TARGET APPROX 1/2 SCALE

BARBER - M24 0043330

SERIAL NUMBER: C6348989. 0
 TARGET NUMBER: 3
 FILE DATE: 06/09/2006
 FILE TIME: 01:58

POINT#	X	Y
1:	0.332	-0.871
2:	0.286	-0.456
3:	0.705	-0.134
4:	-0.842	0.038
5:	-0.851	-0.853
6:	-0.210	-1.882
7:	-0.420	1.047
8:	-0.007	0.887
9:	0.074	0.607
10:	-0.083	0.368

X CENTROID: -0.102
 Y CENTROID: -0.125
 POA TO CENTROID: 0.161
 HORZ SPREAD: 1.556
 VERT SPREAD: 2.929
 GROUP SPREAD: 2.937
 MIN RADIUS: 0.493
 MAX RADIUS: 1.760
 MEAN RADIUS: 0.922
 # IN 1 IN DIAMETER: 1
 # IN 2 IN DIAMETER: 6
 # in 3 IN DIAMETER: 9



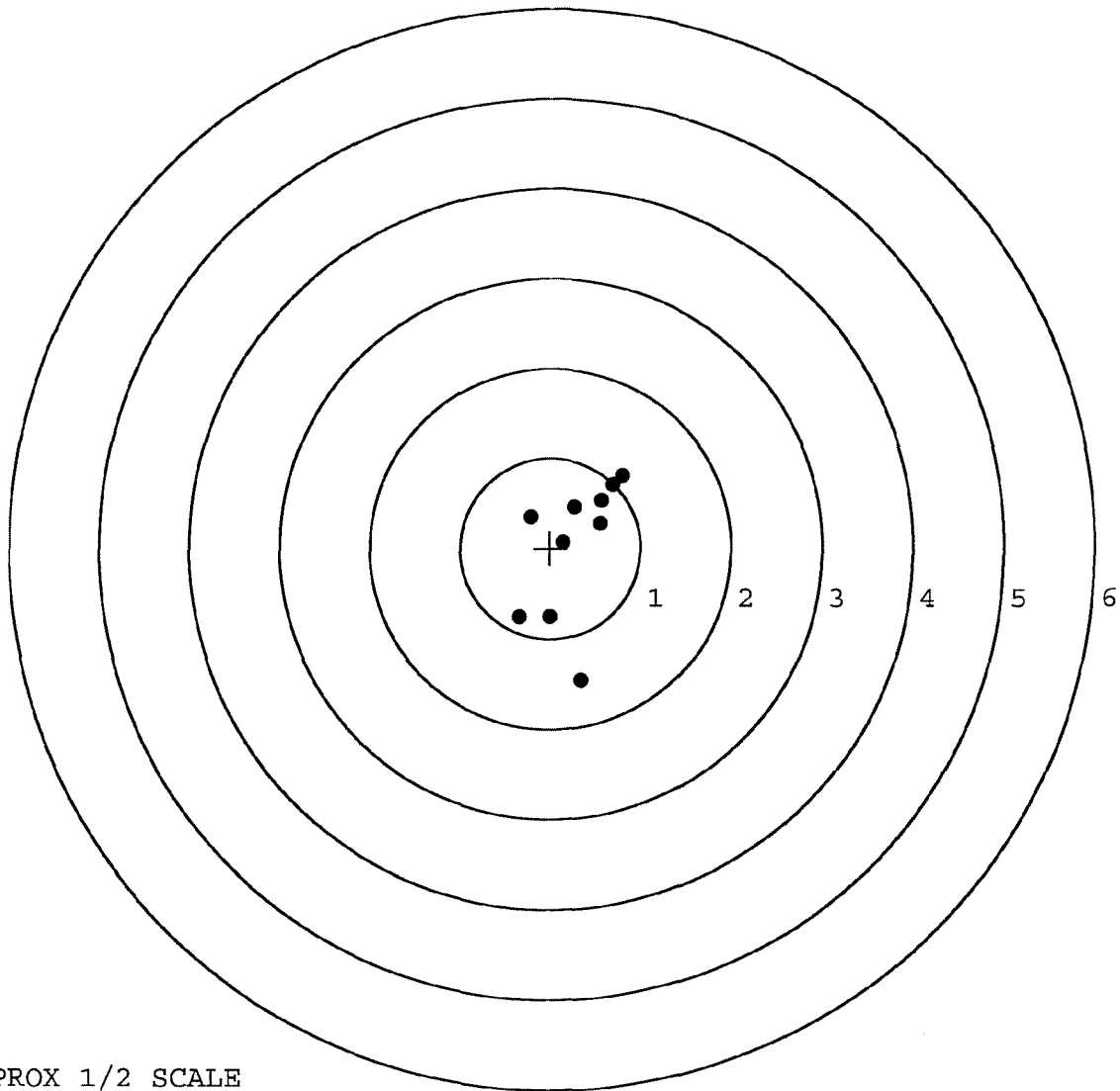
TARGET APPROX 1/2 SCALE

BARBER - M24 0043331

SERIAL NUMBER: C6348989. 0
 TARGET NUMBER: 4
 FILE DATE: 06/09/2006
 FILE TIME: 01:58

POINT#	X	Y
1:	0.347	-1.465
2:	0.001	-0.762
3:	-0.343	-0.766
4:	-0.215	0.343
5:	0.141	0.065
6:	0.558	0.275
7:	0.270	0.455
8:	0.569	0.527
9:	0.698	0.701
10:	0.801	0.806

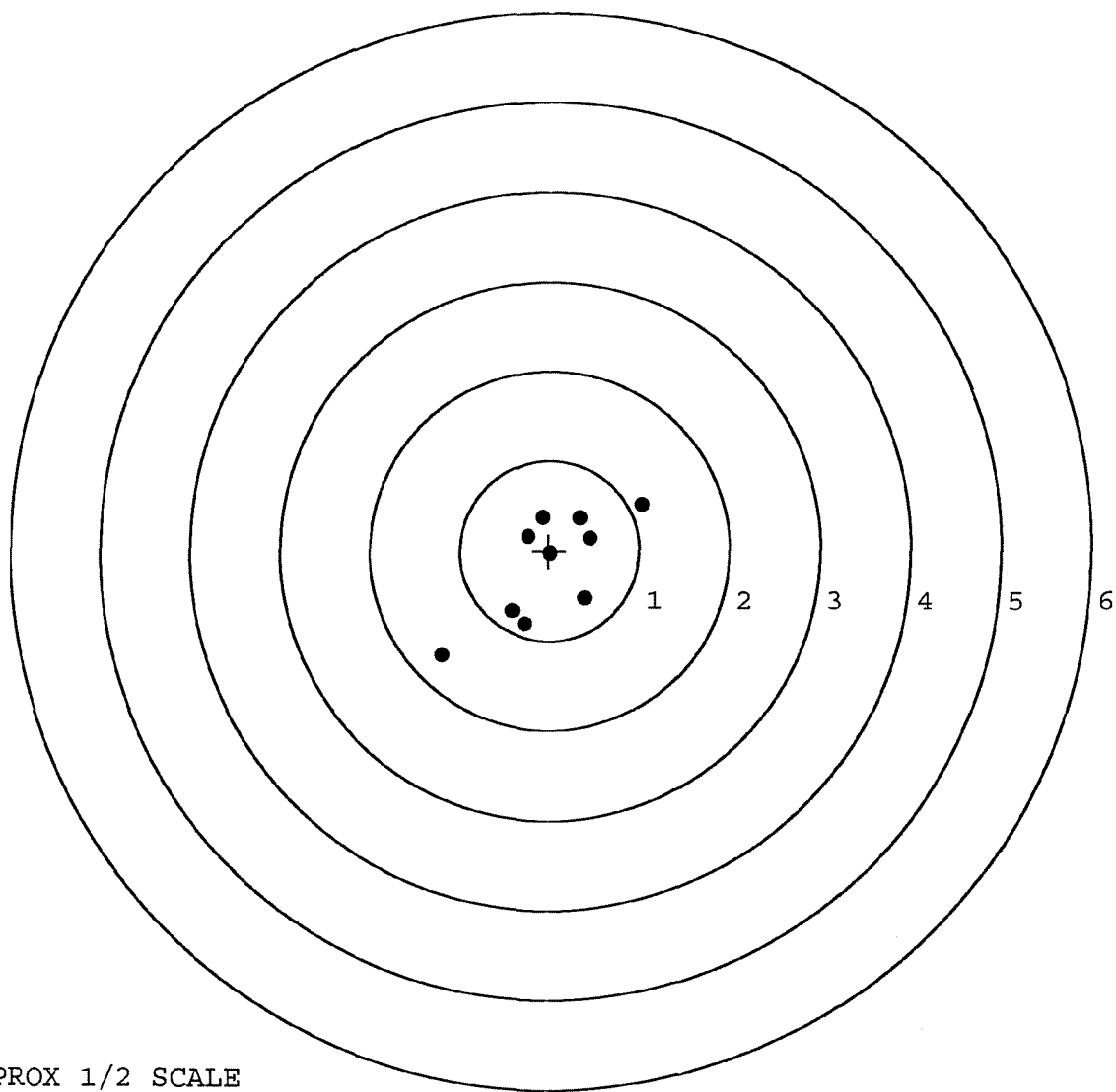
X CENTROID: 0.283
 Y CENTROID: 0.018
 POA TO CENTROID: 0.283
 HORZ SPREAD: 1.144
 VERT SPREAD: 2.271
 GROUP SPREAD: 2.316
 MIN RADIUS: 0.149
 MAX RADIUS: 1.484
 MEAN RADIUS: 0.720
 # IN 1 IN DIAMETER: 3
 # IN 2 IN DIAMETER: 8
 # in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

BARBER - M24 0043332

SERIAL NUMBER: C6348989. __0	POINT#	X	Y
TARGET NUMBER: 5	1:	1.021	0.513
FILE DATE: 06/09/2006	2:	0.395	-0.530
FILE TIME: 01:58	3:	-0.275	-0.816
	4:	-0.420	-0.678
X CENTROID: 0.000	5:	-1.196	-1.170
Y CENTROID: -0.168	6:	0.449	0.138
POA TO CENTROID: 0.168	7:	0.335	0.363
HORZ SPREAD: 2.217	8:	-0.079	0.368
VERT SPREAD: 1.683	9:	-0.244	0.159
GROUP SPREAD: 2.783	10:	0.018	-0.027
MIN RADIUS: 0.142			
MAX RADIUS: 1.561			
MEAN RADIUS: 0.695			
# IN 1 IN DIAMETER: 2			
# IN 2 IN DIAMETER: 8			
# in 3 IN DIAMETER: 9			



TARGET APPROX 1/2 SCALE

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

R & E NUMBER	112580		
SERIAL NUMBER	C6348989		
LOG-IN DATE	5-19-06		
OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	5-31-06	RTZ
505	RE-BARREL	6-1-06	RTZ
560	ASSEMBLE	6-1-06	RTZ
600	PROOF	MAGNA-FLUX INSPECTED	6-1-06 TRW
605	CHECK HEADSPACE	JUN 05 2006	6-1-06 TRW
610	DIS-ASSEMBLE GUN	6-2-06	RTZ
612	MAGNAFLUX	OPERATOR <i>APD</i>	6-3-06 APD
510	DRILL AND TAP	6-2-06	TRW
615	ROLLMARK CALIBER	6-2-06	CW
618	ROTO-BLAST	6-5-06	CB
620	APPLY COATINGS	6/7/06	MB
625	FINAL ASSEMBLY	6-8-06	RTZ
640	FUNCTION TEST AND	<u>PASS</u> FAIL	6-9-06 TRW
650	TARGET	<u>PASS</u> FAIL	6-9-06 TRW
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION		6-9-06 <i>RTZ</i>
	A) HEADSPACE	<u>PASS</u> FAIL	6-19-06 <i>RTZ</i>
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	6-16-06 <i>OA</i>
		2.50 2.50 2.52 2.51 2.52	
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS MAX	6-16-06 <i>OA</i>
		4.0 4.5 4.5	
	G) SAFETY OFF FORCE	2 LBS MIN	6-16-06 <i>OA</i>
		2.5 2.5 2.0	
	I) FIRING PIN INDENT	.020	6-16-06 <i>OA</i>
690	PACK	1.022 1.022 1.022	7-6-06

BARBER - M24 0043334

Remington ®		DU PONT REG. U.S. PAT. & TM. OFF.	VERY IMPORTANT: Instruction Book enclosed to assure safe use of this firearm.
MODEL 700™ M24		SERIAL NO. C6348989	ORDER NO. 5716
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat & Tm. Off, Marca Registrada Marque Deposee.		01	



25

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

BARBER - M24 00433343373

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6348989

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	1 12	90	RW
600	Proof	1 12	90	A
607	Check Headspace	1 12	80	A
610	Dis-assemble Gun	1 12	90	RW
612	Magnaflux Barrel Action	1-16-90		KCR
	Magnaflux Bolt	1-17-90		KCR
615	Rollmark Caliber	1-17-90		JS
617	Drill and Tap Sight Holes		1/17/90	RB
618	Polish Barrel RB		1/22/90	WB
620	Apply Coatings (Barrel Action)		2-30-90	TA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		2/2/90	WB
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		2/6/90	RW
	C) Inspect Ejector Hole for Chamfer		2/6/90	RW
	D) Oil Firing Pin Ass'y		2/6/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		2-8-90	JS

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4	4	4			2-12-90	JK
	G) Safety Off Force	2	2	2			2-12-90	JK
	H) Trigger Pull Test & Retainability						2-8-90	JK
	I) Firing Pin Indent	.0205	.020	.020			2-12-90	JK
	J) Assemble Stock						4/18/90	RW
	K) Assemble Swivel Studs						4/20/90	WB
	L) Attach Front and Rear Sight Assemblies						4/18/90	RW
	M) Iron Sight Alignment						4/18/90	RW
	N) Detach Front & Rear Sights & place in numbered container						4/18/90	RW
	O) Attach Scope to Rifle						4/19/90	WB
	P) Detach & Attach Scope 20 Times						4/19/90	WB
640	Gallery Target & Test						4-19-90	DH
	A) Time						4-19-90	DH
	B) Malfunctions						4-19-90	DH
	C) Pierced Primers						4-19-90	DH
	D) Optical Clarity of Scope						4-19-90	DH
645	Inspect for Live Ammo						4-19-90	DH
655	Final Inspection						4/20/90	WB
	A) Headspace							
	B) Trigger Pull	2.77	2.50	2.77	2.80	2.57	4/26/90	WB
	C) Function						4/20/90	WB
660	Pack						6-19-90	DH

TEST INIT. ACTION TO CORRECT		ASSEM. #
PROOF	Ream Ejector hole Polish Ejector	RW 4/ 25/ 90
TEST		
TGT		
PROOF	60 Rds 4/25/90 AC	OK
TEST		
TGT		
PROOF	ENGINEER	
TEST		
TGT		
PROOF	ENGINEER	
TEST		
TGT		

MOD.		GA. CAL.	GUN #	ASSEM. #
#	DATE	MALFUNCTION/DEFECT		
DH	4/19/90	shave brass + dent eject		
	1st			
	2nd			
	3rd			
	4th			
		FUNCTION		RD 6654 Rev 1

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

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

SERIAL NO. C6348989DATE 4-16-90TESTER DA

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.44	2.32	2.29	2.77	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.40	2.36	2.29	2.70	
PULL #3	2.46	2.38	2.29	2.77	
PULL #4	2.49	2.22	2.30	2.80	
PULL #5	2.36	2.27	2.26	2.57	
TOTAL	12.15	11.55	11.43		
AVG.	2.43	2.31	2.28		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.20	3.23		
PULL #2	3.24	3.05		
PULL #3	3.29	3.18		
PULL #4	3.28	3.20		
PULL #5	3.25	3.21		
TOTAL	16.26	15.87		
AVG.	3.25	3.17		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.35	4.15		4.32
PULL #2	4.39	4.20		4.37
PULL #3	4.38	4.20		4.36
PULL #4	4.36	4.21		4.39
PULL #5	4.34	4.23		4.29
TOTAL	21.82	20.99		21.73
AVG.	4.36	4.19		4.34

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06348989
19 Apr 1990

CENTROIDAL DISTANCES

0 TO	1	.188743
1 TO	2	.278258
1 TO	3	.157877
1 TO	4	.992735
1 TO	5	.307956

4

σ^2

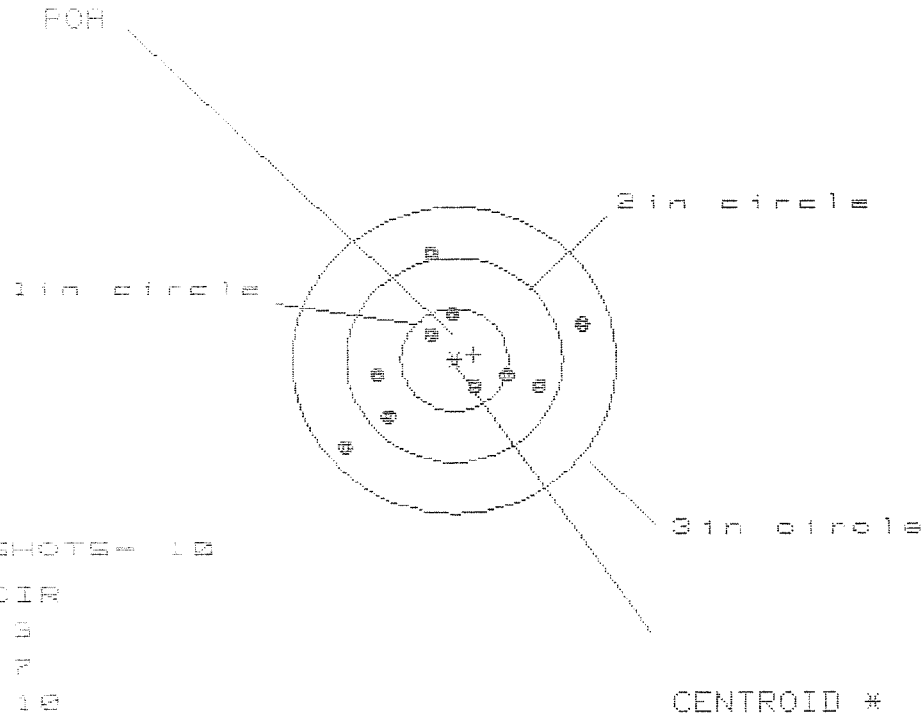
<----POR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0778
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .039
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0070278
THE AMP FOR THIS RIFLE IS: 1.017

18 Apr 1988

FILE:/PATTERNING/CENTERFIRE_PATT/0634B989

CENTERFIRE PATTERNS # 1



* OF SHOTS = 10
 # IN CIR
 1 in = 3
 2 in = 7
 3 in = 10
 HSE = 2.113
 VSE = 1.986
 GSE = 0.447

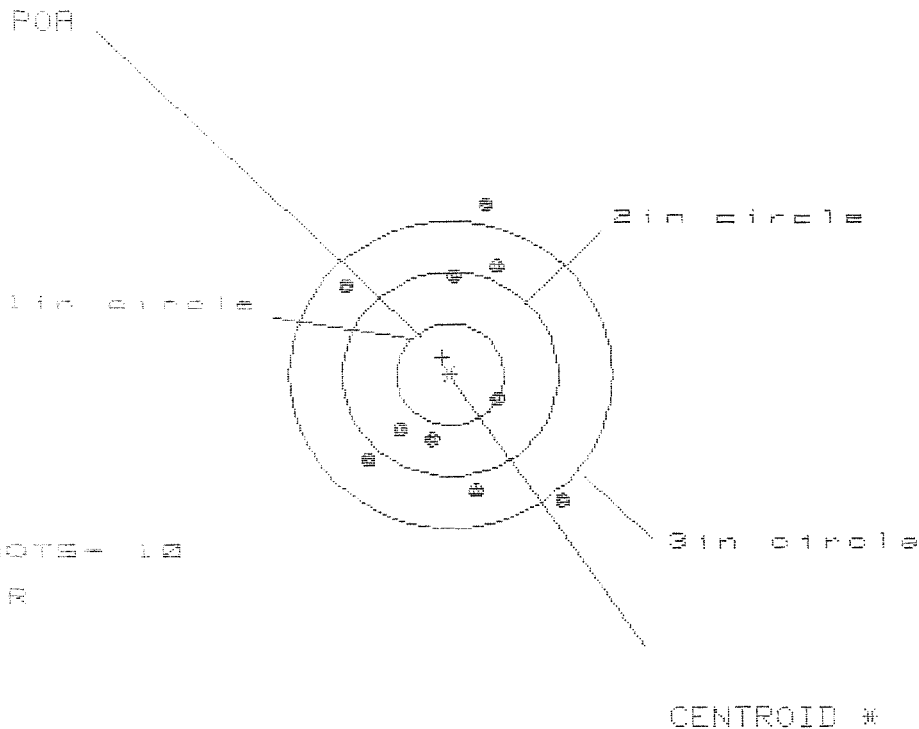
PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.132	1.023	.939
MINIMUM X	-.981	-.782	-.654
MAXIMUM Y	1.059	.965	1.001
MINIMUM Y	-.850	-.637	-.601
CENTROID X	-.182	-.073	-.201
CENTROID Y	-.050	.044	.008
FOR TO CENTROID (in)	.189	.085	.201
MIN RADIUS	.294	.317	.239
MEAN RADIUS	.748	.679	.621
MAX RADIUS	1.298	1.063	1.019
HORIZONTAL SPREAD	2.113	1.805	1.493
VERTICAL SPREAD	1.989	1.602	1.602
EXTREME SPREAD	2.447	1.955	1.663
NUMBER IN ONE INCH CIRCLE	=	3	
NUMBER IN TWO INCH CIRCLE	=	7	
NUMBER IN THREE INCH CIRCLE	=	10	

18 Apr 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C634B9B9

CENTERFIRE PATTERNS

2



OF SHOTS = 10

IN CIR

1 in = 1

2 in = 4

3 in = 8

HS = 1.853

VS = 2.868

GS = 2.855

PATTERN #

2

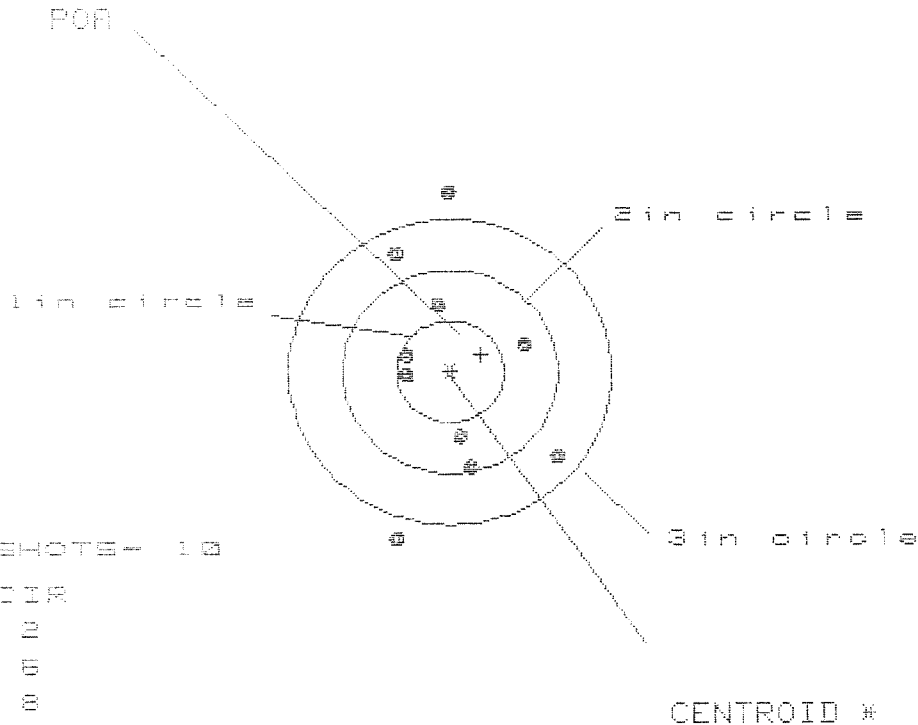
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.012	1.046	.591
MINIMUM X	-.941	-.907	-.776
MAXIMUM Y	1.650	1.257	1.128
MINIMUM Y	-1.218	-1.035	-1.088
CENTROID X	.070	.036	-.095
CENTROID Y	-.168	-.351	-.222
POA TO CENTROID in.	.182	.353	.241
MIN RADIUS	.457	.430	.537
MEAN RADIUS	1.077	.975	.920
MAX RADIUS	1.677	1.471	1.273
HORIZONTAL SPREAD	1.953	1.953	1.367
VERTICAL SPREAD	2.868	2.292	2.216
EXTREME SPREAD	2.955	2.824	2.282
NUMBER IN ONE INCH CIRCLE =		1	
NUMBER IN TWO INCH CIRCLE =		4	
NUMBER IN THREE INCH CIRCLE =		8	

19 Apr 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6346989

CENTERFIRE PATTERNS

3



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 6

3 in = 8

HDI = 1.526

VS = 3.401

ES = 3.436

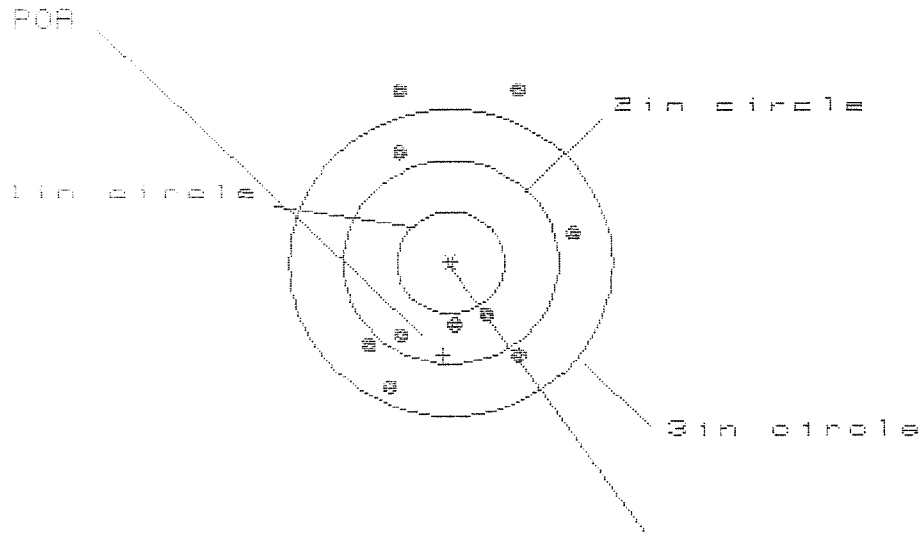
PATTERN #	10	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.033	1.032	.970
MINIMUM X	-.493	-.494	-.540
MAXIMUM Y	1.739	1.336	1.152
MINIMUM Y	-1.662	-1.469	-.913
CENTROID X	-.288	-.287	-.225
CENTROID Y	-.167	-.360	-.176
POA TO CENTROID in.	.333	.460	.286
MIN RADIUS	.406	.396	.467
MEAN RADIUS	.986	.893	.803
MAX RADIUS	1.739	1.550	1.279
HORIZONTAL SPREAD	1.526	1.526	1.510
VERTICAL SPREAD	3.401	2.805	2.065
EXTREME SPREAD	3.436	2.805	2.494
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		6	
NUMBER IN THREE INCH CIRCLE =		8	

19 Apr 1988

FILE:/PATTERNING/CENTERFIRE_PATT/0834B989

CENTERFIRE PATTERNS

4



OF SHOTS= 10

IN CIR

1 in = 0

2 in = 3

3 in = 8

HS= 1.807

VS= 2.931

GS= 3.133

CENTROID *

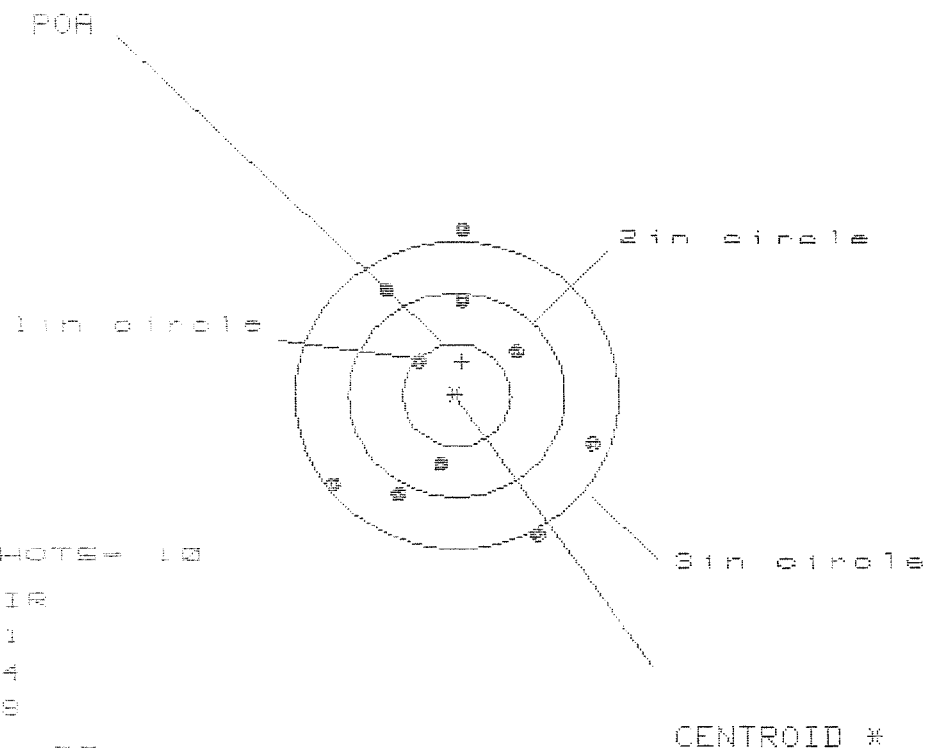
PATTERN #	1	4	9	8
SHOTS (BEST OF)	10	9	9	8
MAXIMUM X	1.107	1.178	1.178	1.129
MINIMUM X	-1.800	-1.729	-1.729	-1.778
MAXIMUM Y	1.717	1.906	1.906	1.519
MINIMUM Y	-1.214	-1.025	-1.025	-1.787
CENTROID X	.067	-.004	-.004	.045
CENTROID Y	.911	.722	.722	.484
POB TO CENTROID in.	.913	.722	.722	.486
MIN RADIUS	.607	.437	.437	.194
MEAN RADIUS	1.164	1.036	1.036	.836
MAX RADIUS	1.815	1.946	1.946	1.579
HORIZONTAL SPREAD	1.907	1.907	1.907	1.907
VERTICAL SPREAD	2.931	2.931	2.931	2.306
ELIPSE SPREAD	3.133	2.932	2.932	2.330
NUMBER IN ONE INCH CIRCLE	=	0	0	0
NUMBER IN TWO INCH CIRCLE	=	3	3	3
NUMBER IN THREE INCH CIRCLE	=	8	8	8

19 Apr 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C834B9B9

CENTERFIRE PATTERNS

5



OF SHOTS= 10

IN CIR

1in = 1

2in = 4

3in = 5

HS= 2.455

VS= 2.940

GS= 3.029

PATTERN #	5		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.303	1.311	1.413
MINIMUM X	-1.152	-1.144	-1.042
MAXIMUM Y	1.609	1.206	1.062
MINIMUM Y	-1.331	-1.152	-0.933
CENTROID X	-0.056	-0.064	-0.165
CENTROID Y	-0.331	-0.510	-0.366
POA TO CENTROID in.	.336	.514	.402
MIN. RADIUS	.459	.500	.428
MEAN RADIUS	1.112	1.053	.988
MAX. RADIUS	1.611	1.409	1.488
HORIZONTAL SPREAD	2.455	2.455	2.455
VERTICAL SPREAD	2.940	2.358	1.995
EXTREME SPREAD	3.029	2.754	2.489
NUMBER IN ONE INCH CIRCLE	=	1	
NUMBER IN TWO INCH CIRCLE	=	4	
NUMBER IN THREE INCH CIRCLE	=	8	