

06522144

MODEL 700™ M24

Model **SMS**™

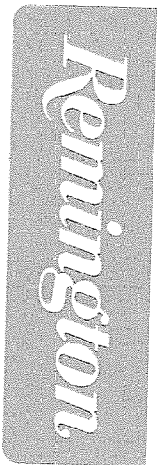
Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.





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

MODEL 700™ H24

SERIAL NO.
C6522144

ORDER NO.
5716

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

01



5716 C6522144

UPC



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: **RE00110413** Serial: C6522144 Model M24 SWS Center Fire
 Verify Repair Caliber: 7.62 NATO Repairman: Status: New 3/28/2006 10:24:25 AM

Address Information

Customer: ☒ Received From Return To: ☐ Received From

Name: **CO A 1/20 SFG A** **CO A 1/20 SFG A**

Address 1: **1455 SHUG JORDAN PARKWAY** **1455 SHUG JORDAN PARKWAY**

Address 2: **ATTN MR GAY** PO Box: **ATTN MR GAY** PO Box:

City: **AUBURN** **AUBURN**

State: **AL** Zip Code: **36832** Country: **US** State: **AL** Zip Code: **36832** Country: **US**

FFL: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Contact / Condition Problems Estimate History / Status Shipping / Billing

Contact Information

Phone:

Fax:

Email:

Comments:

Received Condition

Good

Condition Notes:

CSR Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	3
A017	Scope Base	2
C000	SGT BASES	2

Repair Search Refresh Close

magletj 3/28/2006 10:52 AM CAPS NUM INS SCRL

start 2 Micr... Part Se... Arms S... 2 Micr... 2 Int... Create... 10:52 AM

Serial Number: **C6522144**

Model: **M24 SWS**



RE00110413

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6522144.___0
FILE DATE AND TIME: 04/13/2006 14:38

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.162
The Average Y Centroid of the Five Target Set:	0.182
The Average Point of Impact of the Five Target Set:	0.244
The Average Mean Radius of the Five Target Set:	0.728
The Distance from POA to Centroid Target #1:	0.423
The Distance from Centroid Target #2 to Centroid Target #1:	0.094
The Distance from Centroid Target #3 to Centroid Target #1:	0.260
The Distance from Centroid Target #4 to Centroid Target #1:	0.295
The Distance from Centroid Target #5 to Centroid Target #1:	0.523

BARBER - M24 0004434

SERIAL NUMBER: C6522144. 0

TARGET NUMBER: 1

FILE DATE: 04/13/2006

FILE TIME: 14:38

POINT#	X	Y
1:	-0.134	-1.188
2:	0.729	-0.758
3:	0.690	0.133
4:	0.270	0.817
5:	-0.028	0.780
6:	-0.489	0.148
7:	-0.977	0.358
8:	-0.774	0.904
9:	-0.564	1.411
10:	-0.593	1.189

X CENTROID: -0.187

Y CENTROID: 0.379

POA TO CENTROID: 0.423

HORZ SPREAD: 1.706

VERT SPREAD: 2.599

GROUP SPREAD: 2.634

MIN RADIUS: 0.380

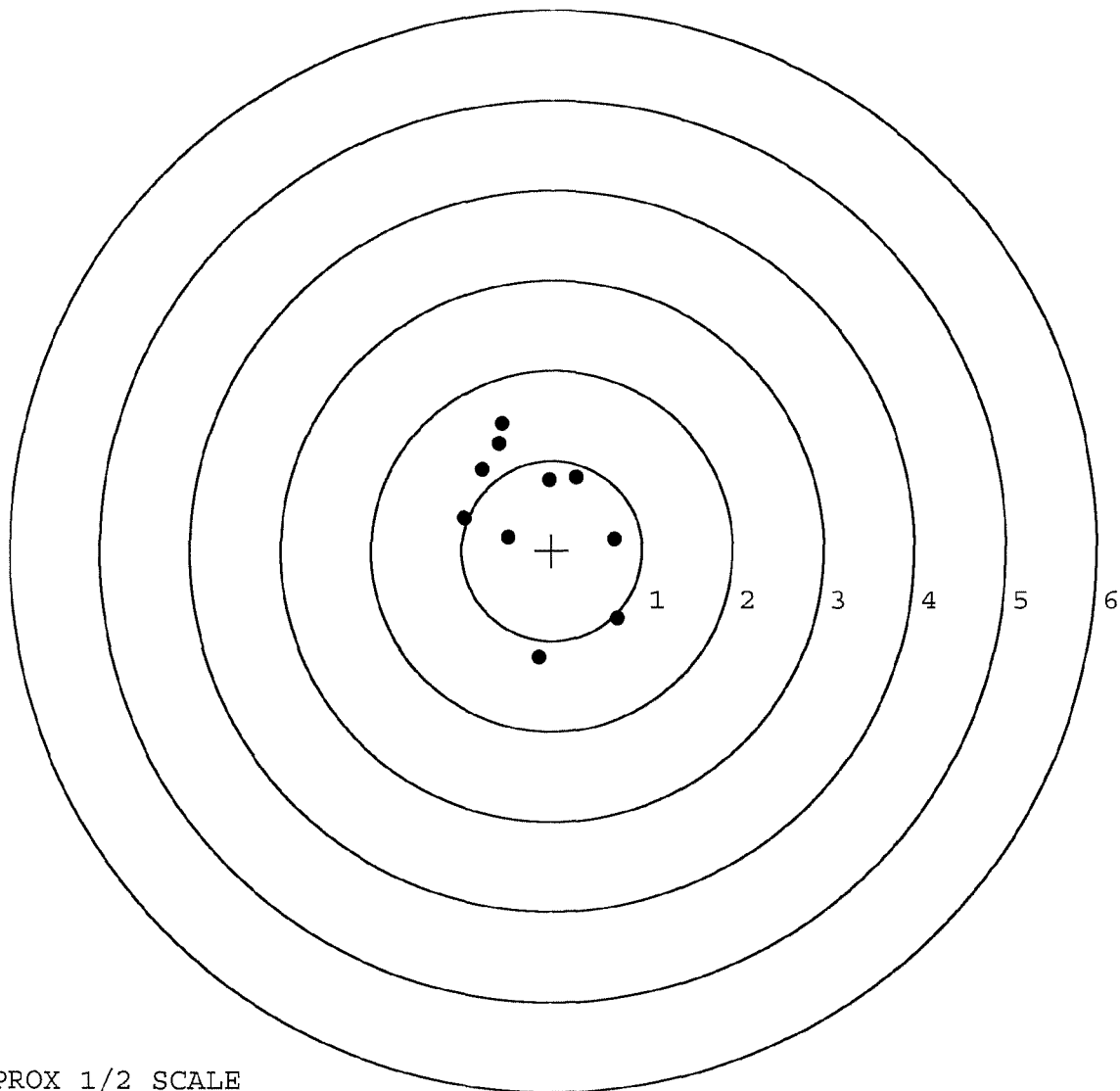
MAX RADIUS: 1.568

MEAN RADIUS: 0.897

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

BARBER - M24 0004435

SERIAL NUMBER: C6522144. 0

TARGET NUMBER: 2

FILE DATE: 04/13/2006

FILE TIME: 14:38

POINT#	X	Y
1:	0.188	0.494
2:	0.330	0.685
3:	0.482	0.755
4:	-1.023	-0.051
5:	-1.076	0.223
6:	-0.561	0.377
7:	-0.347	1.051
8:	-0.635	0.874
9:	-0.458	0.789
10:	0.584	-0.719

X CENTROID: -0.252

Y CENTROID: 0.448

POA TO CENTROID: 0.514

HORZ SPREAD: 1.660

VERT SPREAD: 1.770

GROUP SPREAD: 2.006

MIN RADIUS: 0.317

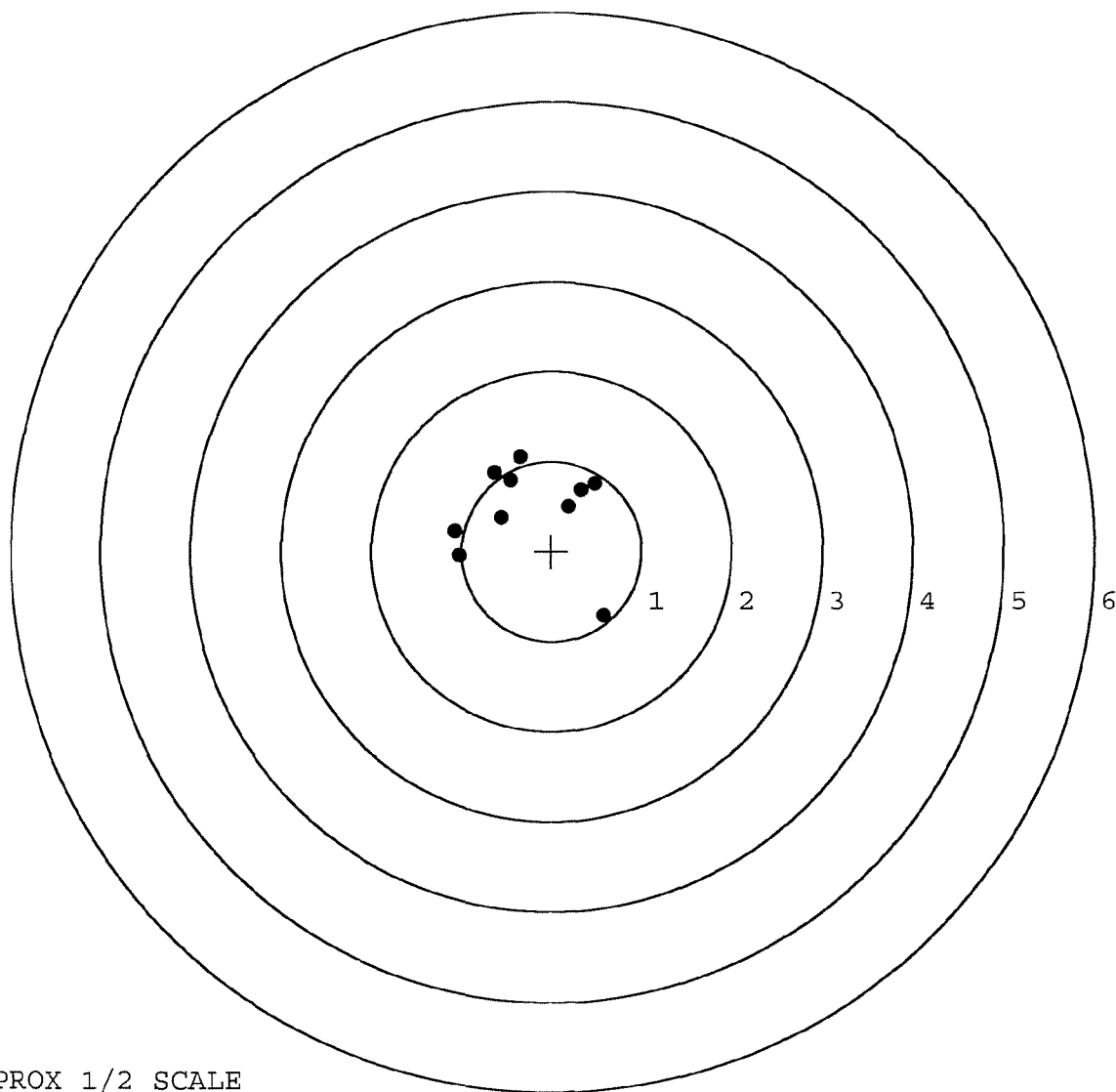
MAX RADIUS: 1.435

MEAN RADIUS: 0.697

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10



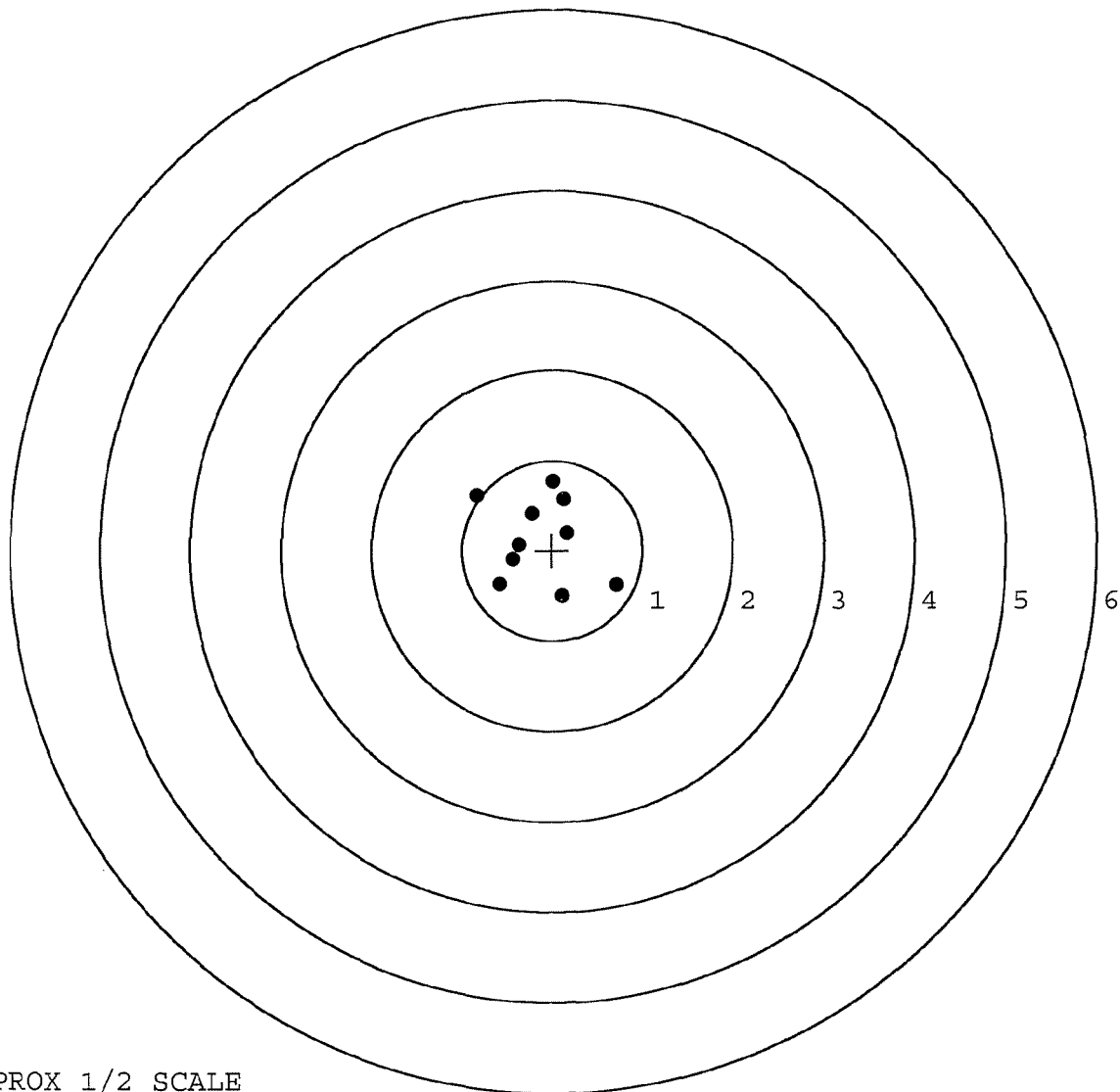
TARGET APPROX 1/2 SCALE

BARBER - M24 0004436

SERIAL NUMBER: C6522144. 0
 TARGET NUMBER: 3
 FILE DATE: 04/13/2006
 FILE TIME: 14:38

POINT#	X	Y
1:	0.717	-0.381
2:	0.114	-0.513
3:	-0.846	0.614
4:	0.013	0.769
5:	0.132	0.569
6:	0.164	0.197
7:	-0.232	0.413
8:	-0.368	0.065
9:	-0.435	-0.101
10:	-0.584	-0.380

X CENTROID: -0.132
 Y CENTROID: 0.125
 POA TO CENTROID: 0.182
 HORZ SPREAD: 1.563
 VERT SPREAD: 1.282
 GROUP SPREAD: 1.853
 MIN RADIUS: 0.243
 MAX RADIUS: 0.989
 MEAN RADIUS: 0.562
 # IN 1 IN DIAMETER: 4
 # IN 2 IN DIAMETER: 10
 # in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6522144. 0

TARGET NUMBER: 4

FILE DATE: 04/13/2006

FILE TIME: 14:38

POINT#	X	Y
1:	0.298	-1.184
2:	-0.100	-1.277
3:	-0.310	-0.747
4:	-0.673	-0.195
5:	0.391	-0.105
6:	-0.249	1.505
7:	-0.795	1.088
8:	-0.385	0.592
9:	-0.139	0.598
10:	0.122	0.572

X CENTROID: -0.184

Y CENTROID: 0.085

POA TO CENTROID: 0.203

HORZ SPREAD: 1.186

VERT SPREAD: 2.782

GROUP SPREAD: 2.786

MIN RADIUS: 0.515

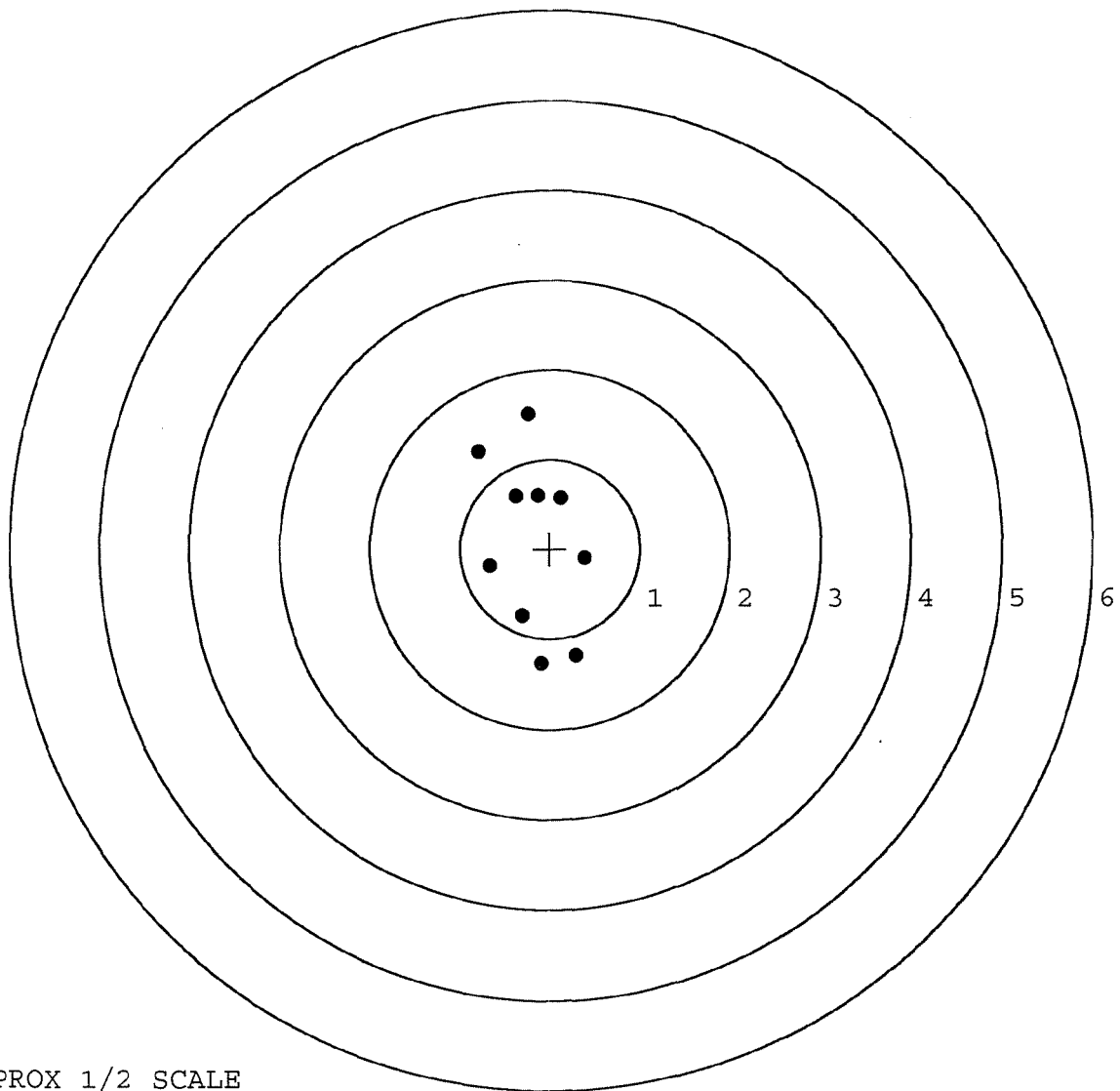
MAX RADIUS: 1.422

MEAN RADIUS: 0.896

IN 1 IN DIAMETER: 0

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 10



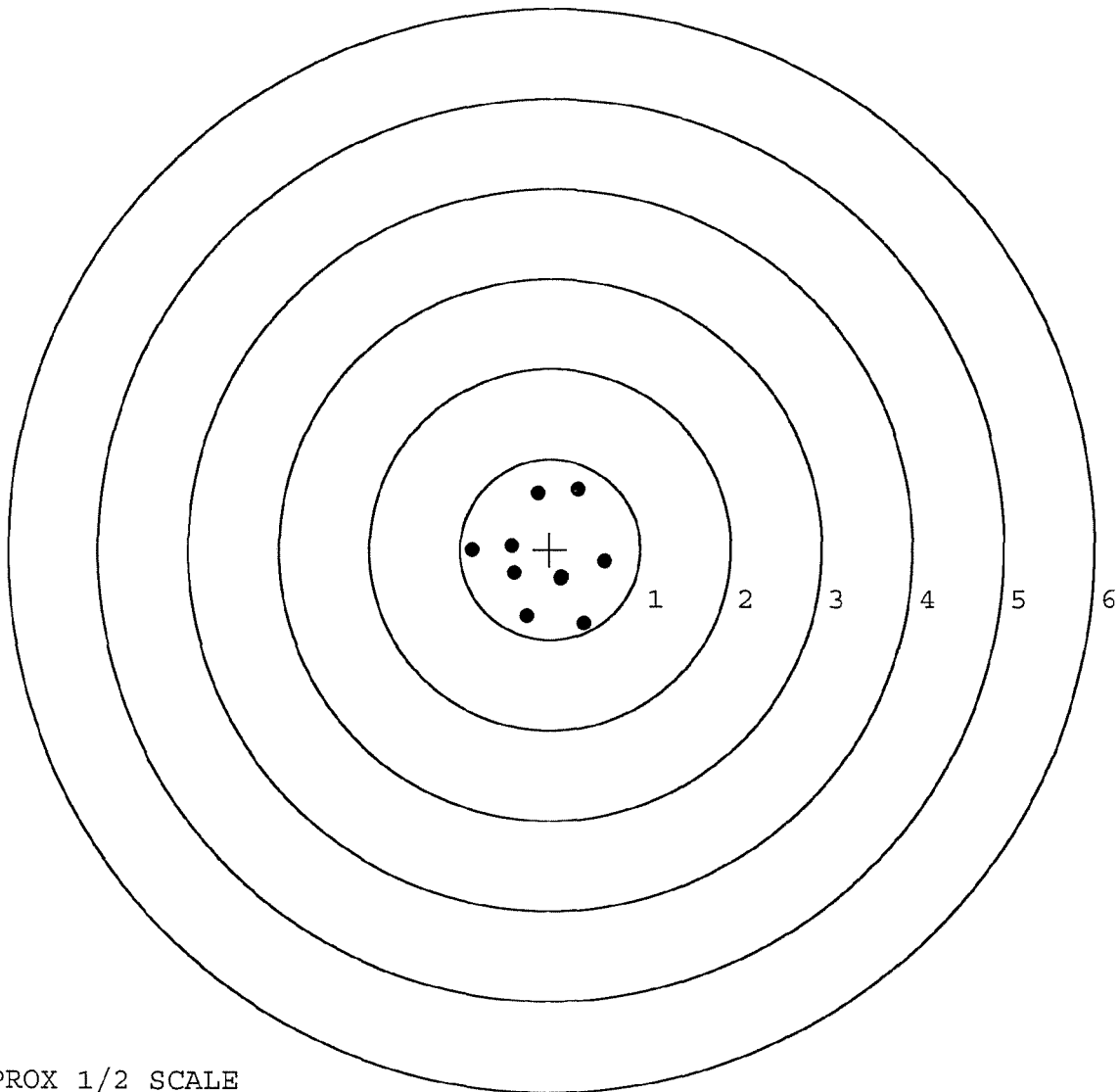
TARGET APPROX 1/2 SCALE

BARBER - M24 0004438

SERIAL NUMBER: C6522144. 0
 TARGET NUMBER: 5
 FILE DATE: 04/13/2006
 FILE TIME: 14:38

POINT#	X	Y
1:	-0.138	0.620
2:	0.312	0.669
3:	0.608	-0.131
4:	0.375	-0.822
5:	0.133	-0.312
6:	-0.260	-0.745
7:	-0.864	0.001
8:	-0.425	0.041
9:	-0.400	-0.265
10:	0.125	-0.323

X CENTROID: -0.053
 Y CENTROID: -0.127
 POA TO CENTROID: 0.137
 HORZ SPREAD: 1.472
 VERT SPREAD: 1.491
 GROUP SPREAD: 1.525
 MIN RADIUS: 0.263
 MAX RADIUS: 0.876
 MEAN RADIUS: 0.589
 # IN 1 IN DIAMETER: 4
 # IN 2 IN DIAMETER: 10
 # in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-D-0127

R & E NUMBER	110413		
SERIAL NUMBER	C6522144		
LOG-IN DATE	3-28-06		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIALS
550	DIS-ASSEMBLE GUN	3-29-06	RTZ
560 A	RE-BARREL	4-3-06	RTZ
B	DRILL AND TAP	4-4-06	TRW
575	ASSEMBLE	4-4-06	RTZ
600	PROOF	4-4-06	TRW
605	CHECK HEADSPACE	4-4-06	TRW
610	DIS-ASSEMBLE GUN	4-4-06	RTZ
612	MAGNAFLUX	4-5-06	APD
615	ROLLMARK CALIBER	4-5-06	CW
618	ROTO-BLAST	4-5-06	LB
620	APPLY COATINGS	4-10-06	TRW
625 A	FINAL ASSEMBLY	4-10-06	RTZ
B	TRIGGER PULL TEST	4-17-06	AC
C	SAFETY "ON" FORCE	4-17-06	AC
D	SAFETY "OFF" FORCE	4-17-06	AC
E	FIRING PIN INDENT	4-17-06	AC
640	TARGET	4-13-06	R.P.D.
655	FINAL INSPECT	4-17-06	AC
660	PACK	4-17-06	AC
		SHIP DATE	
		QAR INSPECTION DATE	

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6522144

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		8-21-90	DB
600	Proof		8-21-90	DB
607	Check Headspace		8-21-90	DB
610	Dis-assemble Gun		8-21-90	DB
612	Magnaflux Barrel Action		8/22/90	KCR
	Magnaflux Bolt		8/22/90	KCR
615	Rollmark Caliber		8/22/90	GS
617	Drill and Tap Sight Holes		8/23/90	FB
618	Polish Barrel RB		8/23/90	WB
620	Apply Coatings (Barrel Action)		8/23/90	FB
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		9/13/90	WB
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		9/13/90	WB
	C) Inspect Ejector Hole for Chamfer		9/13/90	WB
	D) Oil Firing Pin Ass'y		9/13/90	WB
	E) Adjust Trigger Pull to Min Setting and Stake		9/13/90	WB

op. #	OP. NAME	READINGS					DATE	INIT
635 nt.	F) Safety On Force	5	5	5			9/13/90	WB
	G) Safety Off Force	2 1/4	2 1/4	2 1/4			9/13/90	WB
	H) Trigger Pull Test & Retainability						9/13/90	WB
	I) Firing Pin Indent	.023	.023	.023			9/13/90	WB
	J) Assemble Stock						9/15/90	KA
	K) Assemble Swivel Studs						9/17/90	KA
	L) Attach Front and Rear Sight Assemblies						9/15/90	KA
	M) Iron Sight Alignment						9/10/90	KA
	N) Detach Front & Rear Sights & place in numbered container						9/15/90	KA
	O) Attach Scope to Rifle						9/15/90	KA
	P) Detach & Attach Scope 20 Times						9/15/90	KA
640	Gallery Target & Test						9-17-90	AC
	A) Time						9-17-90	AC
	B) Malfunctions						9-17-90	AC
	C) Pierced Primers						9-17-90	AC
	D) Optical Clarity of Scope						9-17-90	AC
645	Inspect for Live Ammo						9-17-90	AC
655	Final Inspection							
	A) Headspace						9/17/90	KA
	B) Trigger Pull	262	260	263	263	261	9/17/90	KA
	C) Function						9/17/90	KA
660	Pack						9/19/90	AF

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C 6522144

DATE 9/13/90

TESTER WB

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.38	2.52	2.38 ³	262	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.50	2.44	2.55	266	
PULL #3	2.35	2.41	2.48	263	
PULL #4	2.44	2.57	2.49	263	
PULL #5	2.31	2.57	2.60	261	
TOTAL	11.98	12.51	12.50		
AVG.	2.40	2.50	2.50		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.04	3.05		
PULL #2	3.13	3.01		
PULL #3	3.00	3.14		
PULL #4	3.00	3.20		
PULL #5	3.13	3.15		
TOTAL	15.30	15.55		
AVG.	3.06	3.11		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.20	4.04		4.12
PULL #2	4.00	4.00		4.13
PULL #3	4.05	4.13		4.12
PULL #4	4.01	4.08		4.15
PULL #5	4.17	4.20		4.16
TOTAL	20.43	20.45		20.68
AVG.	4.08	4.09		4.14

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6522144
17 Sep 1998

CENTROIDAL DISTANCES

0 TO	1	.137364
1 TO	2	.0291548
1 TO	3	.288002
1 TO	4	.480026
1 TO	5	.188215

4
3
2
1

<----FOR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.1196
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0208
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .121395

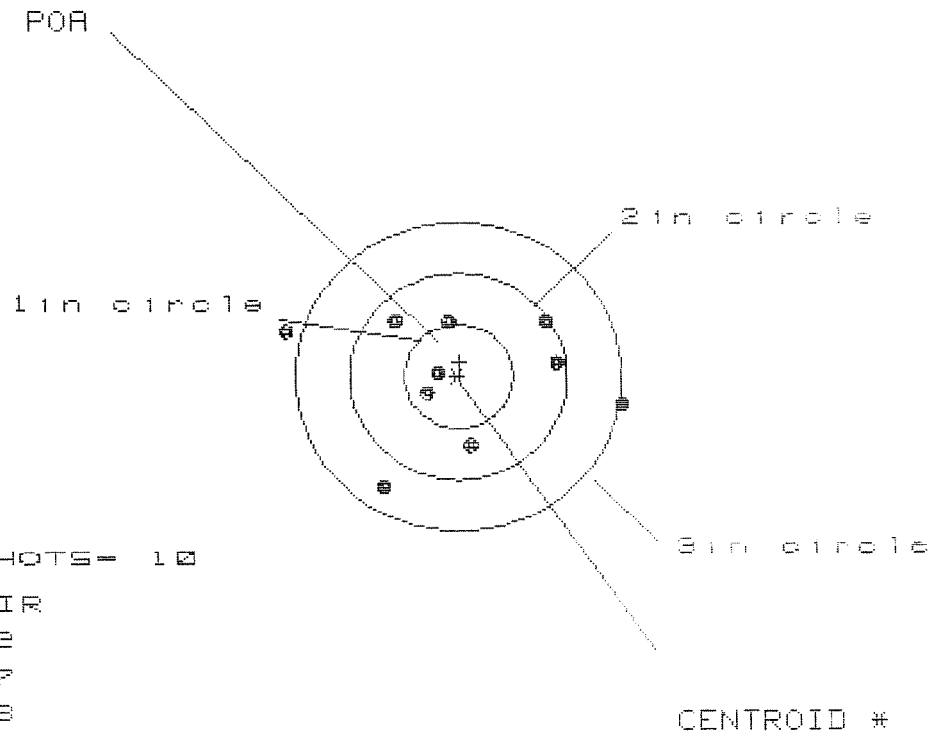
THE AMR FOR THIS RIFLE IS: .8232

17 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6522144

CENTERFIRE PATTERNS

1



OF SHOTS= 10

IN CIR

1 in = 2

2 in = 7

3 in = 8

HS= 3.060

VS= 1.626

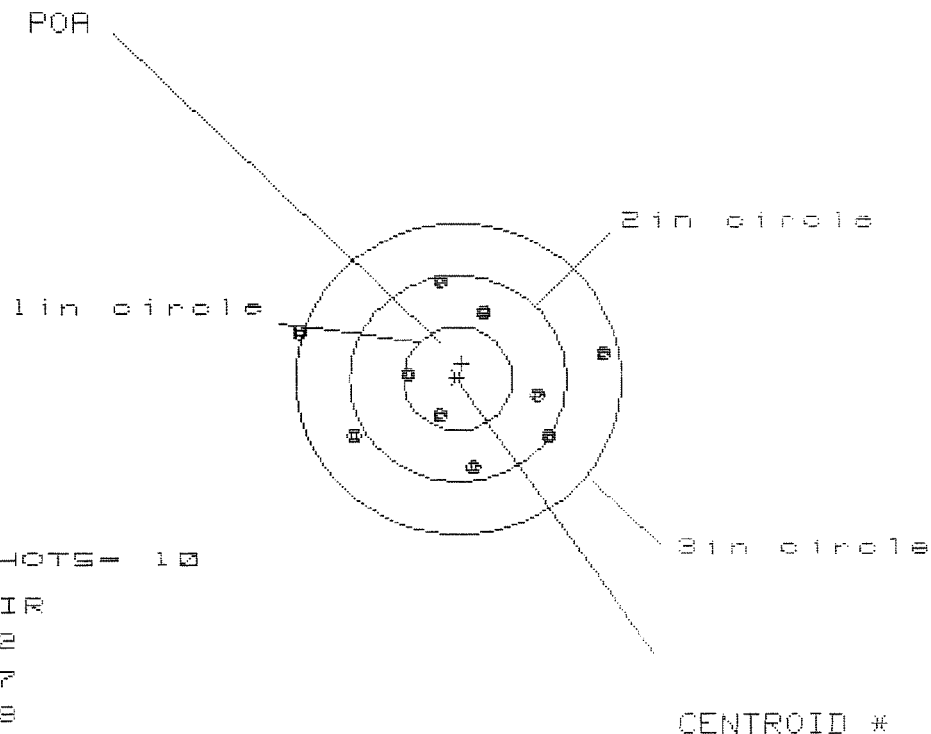
GS= 3.140

PATTERN #	:	1	2	3
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.504	1.331	.883
MINIMUM X	:	-1.556	-.818	-.652
MAXIMUM Y	:	.541	.590	.563
MINIMUM Y	:	-1.085	-1.036	-1.063
CENTROID X	:	-.010	.163	-.003
CENTROID Y	:	-.137	-.186	-.159
POA TO CENTROID in.	:	.137	.247	.159
MIN RADIUS	:	.197	.376	.208
MEAN RADIUS	:	.874	.807	.702
MAX RADIUS	:	1.618	1.348	1.247
HORIZONTAL SPREAD	:	3.060	2.149	1.535
VERTICAL SPREAD	:	1.626	1.626	1.626
EXTREME SPREAD	:	3.140	2.301	2.159
NUMBER IN ONE INCH CIRCLE	=	2		
NUMBER IN TWO INCH CIRCLE	=	7		
NUMBER IN THREE INCH CIRCLE	=	8		

17 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06522144

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1 in = 2

2 in = 7

3 in = 9

HS= 2.811

VS= 1.776

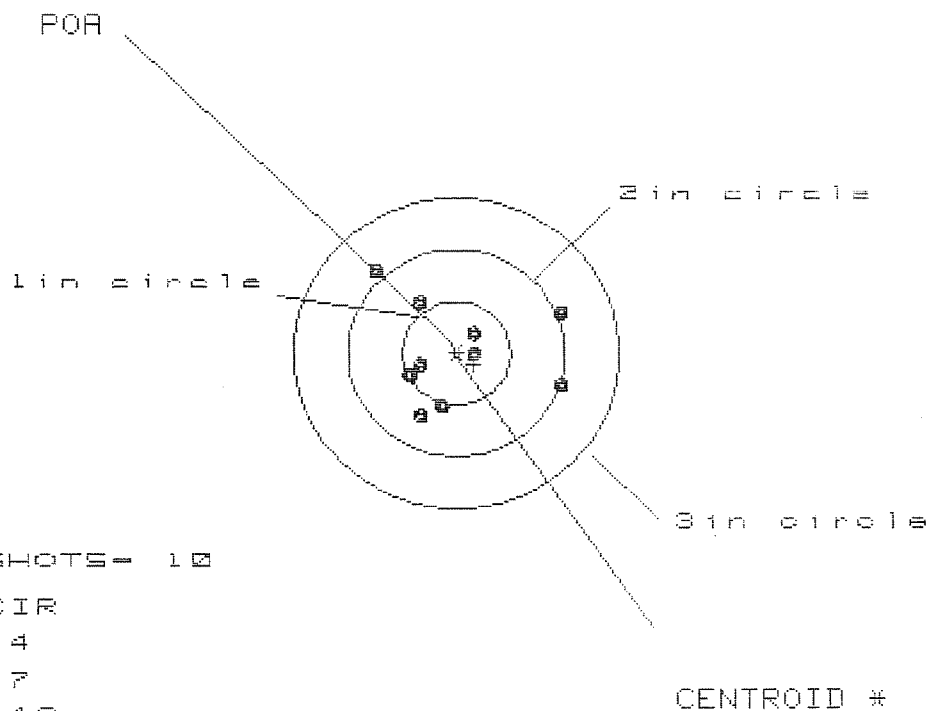
GS= 2.820

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.366	1.205	.831
MINIMUM X	:	-1.445	-1.118	-.967
MAXIMUM Y	:	.945	.996	1.032
MINIMUM Y	:	-.831	-.780	-.744
CENTROID X	:	-.037	.124	-.027
CENTROID Y	:	-.148	-.199	-.235
POA TO CENTROID in.	:	.152	.234	.237
MIN RADIUS	:	.369	.443	.306
MEAN RADIUS	:	.900	.825	.755
MAX RADIUS	:	1.517	1.240	1.065
HORIZONTAL SPREAD	:	2.811	2.323	1.798
VERTICAL SPREAD	:	1.776	1.776	1.776
EXTREME SPREAD	:	2.820	2.448	1.798
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	

17 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8522144

CENTERFIRE PATTERNS # 3



OF SHOTS= 10

IN CIR

1 in = 4

2 in = 7

3 in = 10

HS= 1.743

VS= 1.415

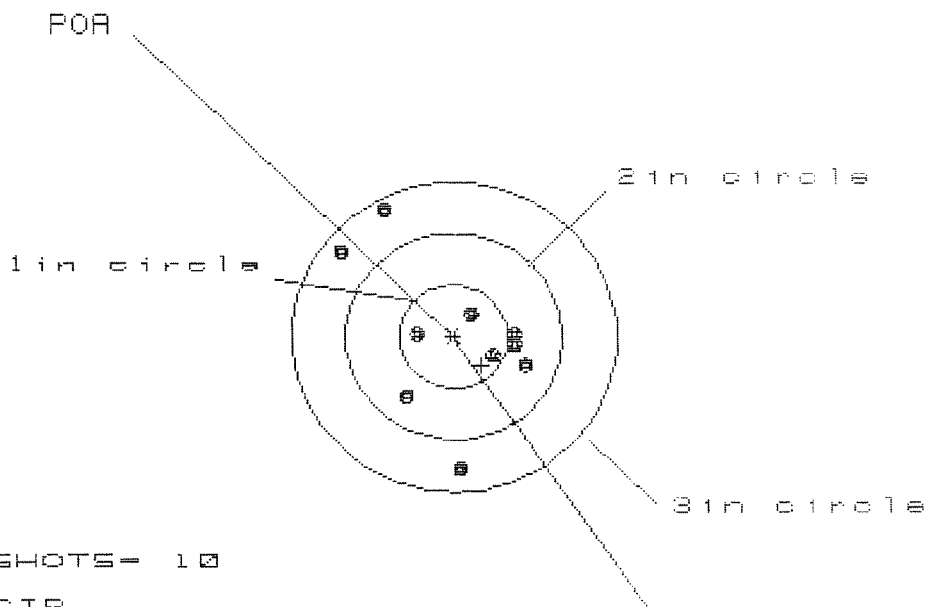
GS= 2.048

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.001	.918	1.031
MINIMUM X	:	-.742	-.484	-.371
MAXIMUM Y	:	.767	.568	.623
MINIMUM Y	:	-.648	-.563	-.508
CENTROID X	:	-.163	-.088	-.193
CENTROID Y	:	.107	.022	-.033
POA TO CENTROID in.	:	.195	.083	.196
MIN RADIUS	:	.204	.122	.247
MEAN RADIUS	:	.640	.589	.522
MAX RADIUS	:	1.067	1.005	1.045
HORIZONTAL SPREAD	:	1.743	1.402	1.402
VERTICAL SPREAD	:	1.415	1.131	1.131
EXTREME SPREAD	:	2.048	1.686	1.573
NUMBER IN ONE INCH CIRCLE	=		4	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		10	

17 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06522144

CENTERFIRE PATTERNS # 4



OF SHOTS= 10

IN CIR

1 in = 3

2 in = 7

3 in = 10

HS= 1.688

VS= 2.505

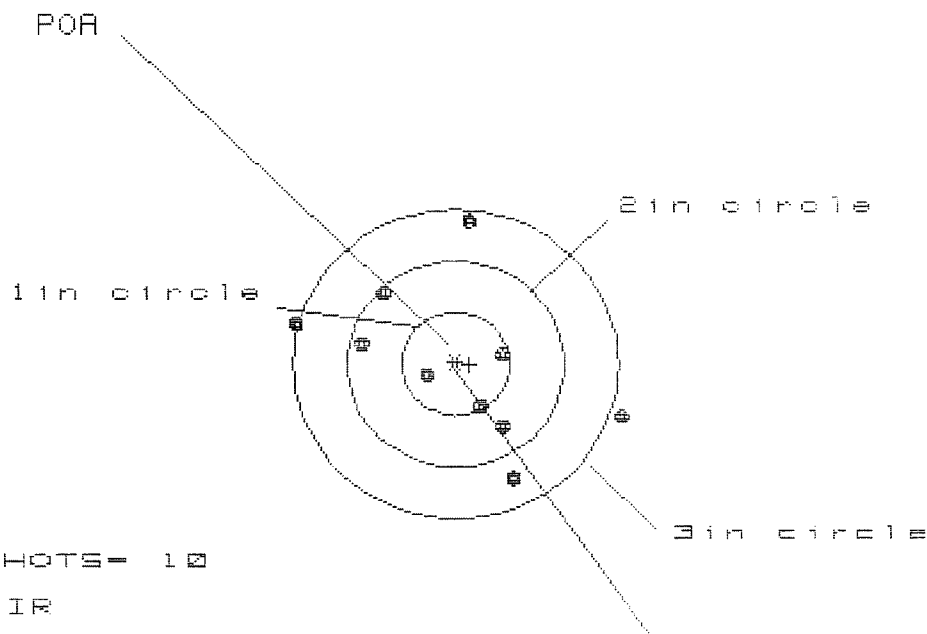
GS= 2.607

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.684	.615	.481
MINIMUM X	:	-1.004	-1.073	-.676
MAXIMUM Y	:	1.259	.958	.494
MINIMUM Y	:	-1.246	-1.106	-.987
CENTROID X	:	-.258	-.189	-.055
CENTROID Y	:	.274	.134	.015
POA TO CENTROID in.	:	.376	.232	.057
MIN RADIUS	:	.264	.275	.153
MEAN RADIUS	:	.754	.664	.543
MAX RADIUS	:	1.402	1.438	.991
HORIZONTAL SPREAD	:	1.688	1.688	1.157
VERTICAL SPREAD	:	2.505	2.064	1.481
EXTREME SPREAD	:	2.607	2.343	1.481
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		10	

17 Sep 1990

FILE:/PATTERNING/CENTERFIRE_PATT/C6522144

CENTERFIRE PATTERNS # 5



OF SHOTS= 10

IN CIR

1 in = 3

2 in = 6

3 in = 9

HS= 2.910

VS= 2.486

GS= 3.049

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.489	.678	.521
MINIMUM X	:	-1.421	-1.255	-.909
MAXIMUM Y	:	1.349	1.294	1.339
MINIMUM Y	:	-1.137	-1.192	-1.147
CENTROID X	:	-.130	-.296	-.139
CENTROID Y	:	.008	.063	.018
POA TO CENTROID in.	:	.131	.302	.140
MIN RADIUS	:	.286	.185	.282
MEAN RADIUS	:	.948	.874	.805
MAX RADIUS	:	1.569	1.371	1.346
HORIZONTAL SPREAD	:	2.910	1.933	1.430
VERTICAL SPREAD	:	2.486	2.486	2.486
EXTREME SPREAD	:	3.049	2.516	2.516
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	