

C6349126

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

Smith
Smith & Wesson
®

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

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

MODEL 700™ M24

SERIAL NO.
 C6349126

ORDER NO.
5716

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

01



5716 C6349126

UPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6349126

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	4 12 30		RW
600	Proof	4 12 30		A
607	Check Headspace	4 12 30		A
610	Dis-assemble Gun	4 12 30		RW
612	Magnaflux Barrel Action	4-19-90		KCR
	Magnaflux Bolt	4-19-90		KCR
615	Rollmark Caliber	4-19-90		GL
617	Drill and Tap Sight Holes		4/23/90	FB
618	Polish Barrel RB		4/24/90	WS
620	Apply Coatings (Barrel Action)		4/30/90	JA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		5/1/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		5/1/90	RW
	C) Inspect Ejector Hole for Chamfer		5/1/90	RW
	D) Oil Firing Pin Ass'y		5/1/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		5/10/90	921

BARBER - M24 0108313

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	5	5			5/10/90	gcl
	G) Safety Off Force	3	3	3			5/10/90	gcl
	H) Trigger Pull Test & Retainability						5/10/90	gcl
	I) Firing Pin Indent	.023	.023	.023			5/10/90	gcl
	J) Assemble Stock						5/11/90	Rw
	K) Assemble Swivel Studs						6/15/90	gcl
	L) Attach Front and Rear Sight Assemblies						5/11/90	Rw
	M) Iron Sight Alignment						5/11/90	Rw
	N) Detach Front & Rear Sights & place in numbered container						5/11/90	Rw
	O) Attach Scope to Rifle						5/11/90	WB
	P) Detach & Attach Scope 20 Times						5/11/90	WB
640	Gallery Target & Test						5-14-90	DH
	A) Time						5-14-90	DH
	B) Malfunctions						5-14-90	DH
	C) Pierced Primers						5-14-90	DH
	D) Optical Clarity of Scope						5-14-90	DH
645	Inspect for Live Ammo						5-14-90	DH
655	Final Inspection							
	A) Headspace						6/15/90	gcl
	B) Trigger Pull	2.41	2.48	2.54	2.43	2.40	6/14/90	WB
	C) Function						6/18/90	gcl
660	Pack						6-20-90	DH

MOD.		GA. CAL.	GUN #	ASSEM. #
			CG349126	
# TEST	DATE	MALFUNCTION/DEFECT		#
	1st	5-14-90 ejector sticks and Shaver brass		
	2nd	100 Rds OK 5-29-90		AC
	3rd			
	4th			
		FUNCTION		RD 6654 Rev 1

TEST INIT. ACTION TO CORRECT		ASSEM. #
PROOF	Ream Ejector hole Polish Ejector	5/3 60 RW
TEST		
TGT		
PROOF	100 Rds OK 5-29-90	AC
TEST		
TGT		
PROOF	ENGINEER	
TEST		
TGT		
PROOF	ENGINEER	
TEST		
TGT		

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

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

SERIAL NO. C6349126DATE 5/10/90TESTER gdy

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.54	2.47	2.48	2.41	MIN. SETTING,
PULL #2	2.54	2.46	2.40	2.48	NO AVG. OF 5
PULL #3	2.49	2.31	2.33	2.54	READINGS ACCEPT-
PULL #4	2.47	2.45	2.35	2.43	ABLE LESS THAN 2#
PULL #5	2.38	2.35	2.31	2.40	
TOTAL	12.42	12.04	11.87		
AVG.	2.484	2.408	2.374		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.22	3.17		
PULL #2	3.20	3.20		
PULL #3	3.30	3.20		
PULL #4	3.27	3.21		
PULL #5	3.25	3.19		
TOTAL	16.24	15.97		
AVG.	3.248	3.194		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.46	4.46		4.34
PULL #2	4.43	4.27		4.43
PULL #3	4.51	4.40		4.41
PULL #4	4.52	4.50		4.44
PULL #5	4.45	4.42		4.42
TOTAL	22.37	22.05		22.04
AVG.	4.474	4.41		4.408

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6349126
15 May 1990

CENTROIDAL DISTANCES

0 TO	1	.325189
1 TO	2	.483009
1 TO	3	.213235
1 TO	4	.528025
1 TO	5	.662005

4 <----POA

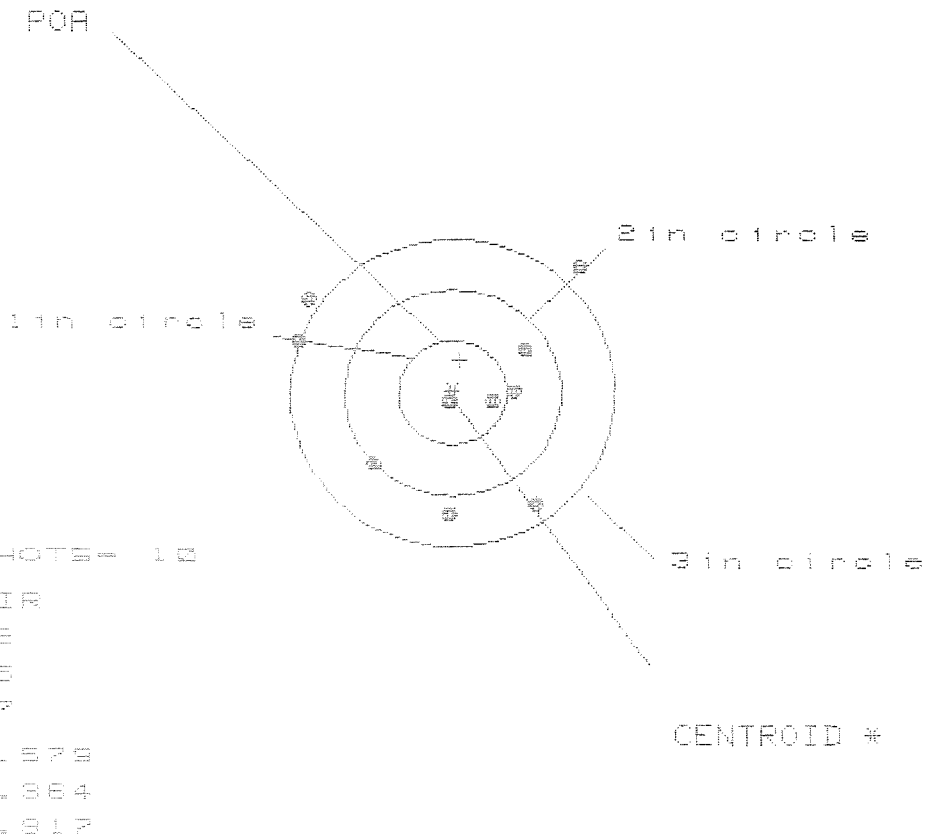
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .9586
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0148
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .05272
THE AME FOR THIS RIFLE IS: .9436

14 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6349128

CENTERFIRE PATTERNS

1

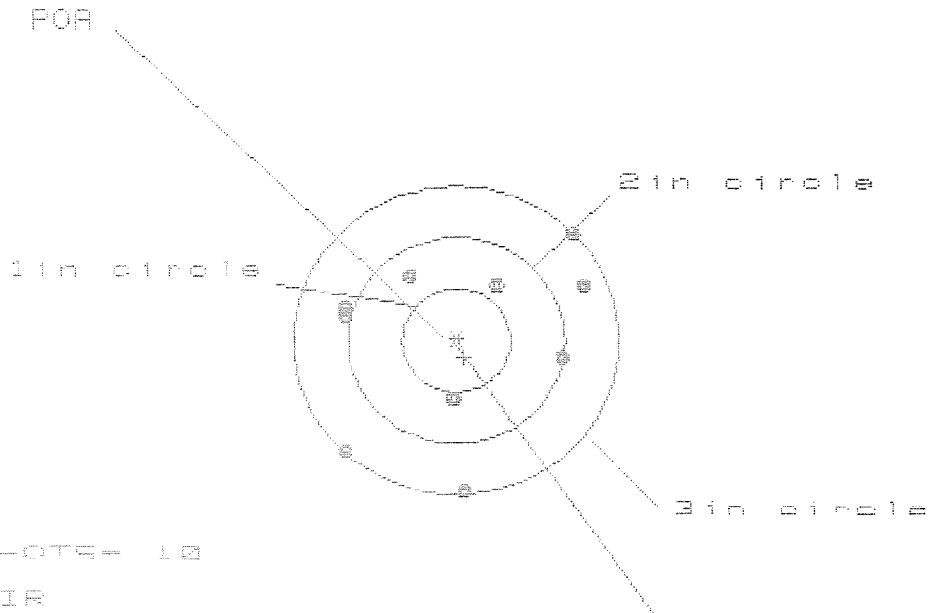


PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.148	.880	.733
MINIMUM X	-1.431	-1.304	-1.451
MAXIMUM Y	1.188	1.097	.776
MINIMUM Y	-1.176	-1.044	-.987
CENTROID X	-.068	-.195	-.048
CENTROID Y	-.318	-.450	-.587
POA TO CENTROID IN.	.325	.491	.589
MIN RADIUS	.068	.153	.203
MEAN RADIUS	1.003	.943	.826
MAX RADIUS	1.652	1.609	1.646
HORIZONTAL SPREAD	2.579	2.184	2.184
VERTICAL SPREAD	2.364	2.141	1.683
EXTREME SPREAD	2.917	2.917	2.713
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	7		

14 May 1990

FILE:/PATTERNING/CENTERFIRE_PATT/08349128

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1in = 0

2in = 4

3in = 9

XS= 2.270

YS= 2.559

CS= 2.998

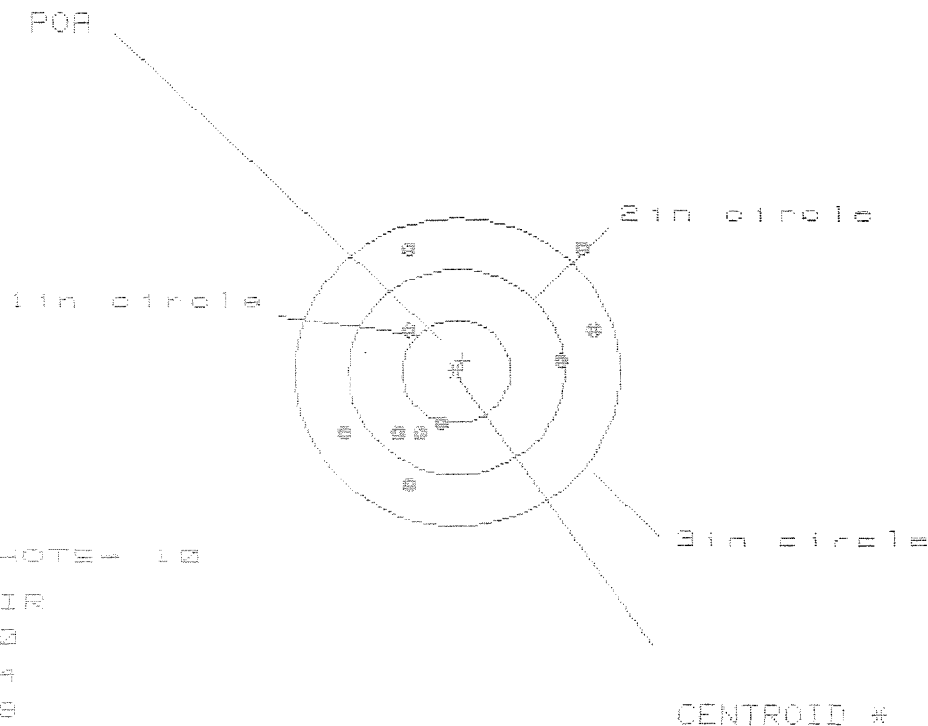
CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.195	1.076	1.190
MINIMUM X	-1.075	-1.171	-1.057
MAXIMUM Y	1.075	.957	.603
MINIMUM Y	-1.484	-1.602	-1.482
CENTROID X	-.071	.040	-.066
CENTROID Y	.165	.280	.163
POA TO CENTROID in.	.180	.287	.176
MIN RADIUS	.541	.491	.539
MEAN RADIUS	1.081	1.013	.976
MAX RADIUS	1.508	1.603	1.483
HORIZONTAL SPREAD	2.270	2.247	2.247
VERTICAL SPREAD	2.559	2.559	2.005
EXTREME SPREAD	2.998	2.738	2.016
NUMBER IN ONE INCH CIRCLE	=	0	
NUMBER IN TWO INCH CIRCLE	=	4	
NUMBER IN THREE INCH CIRCLE	=	9	

14 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06349126

CENTERFIRE PATTERNS # 3



OF SHOTS = 10

IN CIR

1in = 0

2in = 4

3in = 9

HSP = 2.318

VSP = 2.280

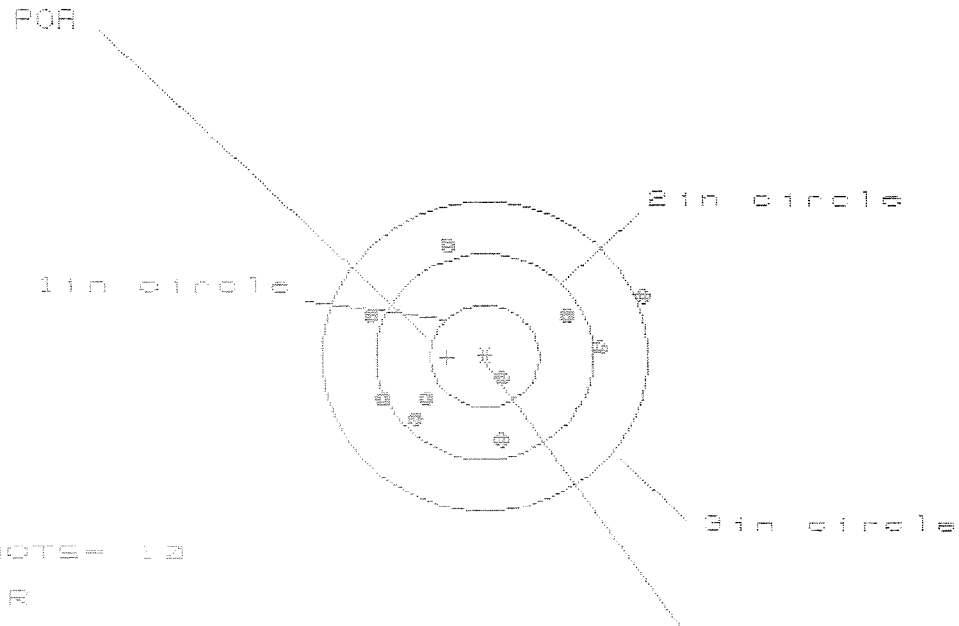
ESP = 2.834

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.263	1.390	1.385
MINIMUM X	-1.055	-1.928	-1.755
MAXIMUM Y	1.223	1.326	1.388
MINIMUM Y	-1.057	-1.921	-1.859
CENTROID X	-0.058	-1.185	-1.358
CENTROID Y	-1.105	-1.241	-1.303
POA TO CENTROID in.	.120	.384	.469
MIN RADIUS	.502	.335	.290
MEAN RADIUS	1.027	.907	.792
MAX RADIUS	1.672	1.475	1.398
HORIZONTAL SPREAD	2.318	2.313	2.060
VERTICAL SPREAD	2.280	2.247	2.247
EXTREME SPREAD	2.834	2.497	2.247
NUMBER IN ONE INCH CIRCLE =	0		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	9		

14 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6349126

CENTERFIRE PATTERNS # 4



OF SHOTS= 12

IN CIR

1in = 1

2in = 6

3in = 5

HS= 2.482

VS= 1.869

GS= 2.505

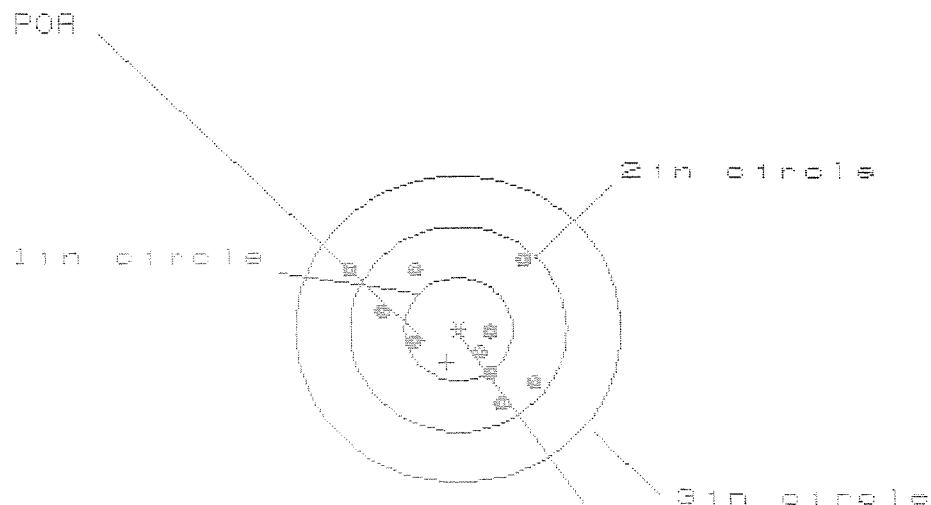
CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.414	1.248	1.224
MINIMUM X	-1.068	-1.911	-1.935
MAXIMUM Y	1.088	1.140	.564
MINIMUM Y	-1.781	-1.721	-1.577
CENTROID X	.345	.188	.212
CENTROID Y	.011	-.049	-.193
POA TO CENTROID in.	.346	.195	.287
MIN RADIUS	.235	.305	.244
MEAN RADIUS	.923	.836	.765
MAX RADIUS	1.514	1.257	1.259
HORIZONTAL SPREAD	2.482	2.159	2.159
VERTICAL SPREAD	1.869	1.869	1.141
EXTREME SPREAD	2.505	2.174	2.174
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	6		
NUMBER IN THREE INCH CIRCLE =	9		

14 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6349126

CENTERFIRE PATTERNS # 5



OF SHOTS = 10

IN CIR

1 in = 3

2 in = 6

3 in = 10

HS = 1.697

VS = 1.374

GS = 2.031

CENTROID #

PATTERN #	5		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.668	.554	.619
MINIMUM X	-1.029	-.961	-.796
MAXIMUM Y	.703	.766	.779
MINIMUM Y	-.671	-.608	-.512
CENTROID X	.105	.219	.154
CENTROID Y	.321	.358	.162
POA TO CENTROID IN.	.337	.338	.223
MIN RADIUS	.277	.161	.141
MEAN RADIUS	.684	.600	.550
MAX RADIUS	1.174	.928	.900
HORIZONTAL SPREAD	1.697	1.415	1.415
VERTICAL SPREAD	1.374	1.374	1.291
EXTREME SPREAD	2.031	1.585	1.585
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		9	
NUMBER IN THREE INCH CIRCLE =		10	

RECEIVING AND ESTIMATING REPORT

COMMENTS

ORDER

R 94-18162

INITIAL CUSTOMER ORDER NO.

FDC

DAAA09-92-C-0834

W/10X SCOPE, M-24 SNIPER, W/DEPLOYMENT KIT

ATTN: FRED MARTIN

SCOPE 90-0503

DATE RECEIVED

06/10/94

DATE OPENED

06/10/94

DATE CODE

SERIAL NUMBER

C6349126

NEW SERIAL NUMBER

MODEL AND GRADE

700 7-62

NATO

ACCESSORIES

SLING STRAP

HARD CASE

SCOPE MNTS

SCOPE BASE

FROM:

SHIP TO:

COMMANDER (W52H094138H226)
DEFENSE DIST DEPOT ANNISTON
ATTN DDAA-UR BLDG 112
ANNISTON

AL 36201-5025

COMMANDER (W52H094138H226)
DEFENSE DIST DEPOT ANNISTON
ATTN DDAA-UR BLDG 112
ANNISTON

AL
36201-5025

CUST NO: 098397 CJO.DL

ACCOUNT NUMBER

ACCOUNT NUMBER N/C

WRITE ☐

PROM. DATE

ESTIMATED

VIA

FRT

GUN CONDITION

- ☐ NEW
☐ LIGHTLY WORN
☐ WORN
☐ VERY WORN
☐ UNREPAIRABLE
☐ MARRED

REPAIR CHARGE

EXCISE

TAX

INSURANCE

UPS

PARCEL POST

TOTAL

CUSTOMER CONCERN

AMMO

FUNCTION

FINISH

ACCURACY

FIT

INSPECT

CYCLE

A1

B1

TRIGGER GROUP

B2

E1

F1

BOLT ASSY.

B3

E2

F2

BARREL ASSY.

B4

D1

E3

F3

REC. ASSY.

B5

D2

E4

F4

WOOD

C1

D3

E5

F5

METAL

C2

MAIN FAULT

PARTS

COMMENTS

✓ Barrel \$643.45
✓ Stock 471.11
Trigger Assy 173.31
✓ Firing pin Assy 9.96
✓ Magazine Spring 1.20
CTI 30.00
\$1349.50

REPAIRMAN

PROOF

CLEAN

TEST

TARGET

PATTERN

GALLERY TESTER

DATE

DATE

DATE

DATE

DATE

OFFICE COPY

RD6925 REV. 1/94

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

BARBER - M24 M24094108362

C6349126

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. ~~C6349126~~

DATE 2/10/96

TESTER SF

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.74	2.69		2.69	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.73	2.72		2.61	
PULL #3	2.72	2.71		2.71	
PULL #4	2.76	2.77		2.61	
PULL #5	2.79	2.80		2.62	
TOTAL	13.74	13.69		13.24	
AVG.	2.748	2.738		2.648	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.24	3.16		
PULL #2	3.20	3.27		
PULL #3	3.25	3.21		
PULL #4	3.27	3.32		
PULL #5	3.30	3.22		
TOTAL	16.26	16.18		
AVG.	3.252	3.236		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.25	4.07		3.93
PULL #2	4.12	4.13		4.03
PULL #3	4.06	4.16		3.99
PULL #4	4.14	4.11		3.92
PULL #5	4.15	4.09		3.99
TOTAL	20.72	20.56		19.86
AVG.	4.144	4.112		3.972

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C 6349126

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

BARBER - M24 0108326

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4	4	4			3/7	AC
	G) Safety Off Force	3	3	3			3/7	AC
	H) Trigger Pull Test & Retainability							
	I) Firing Pin Indent	.020	.020	.020			3/7	AC
	J) Assemble Stock							
	K) Assemble Swivel Studs							
	L) Attach Front and Rear Sight Assemblies							
	M) Iron Sight Alignment							
	N) Detach Front & Rear Sights & place in numbered container							
	O) Attach Scope to Rifle							
	P) Detach & Attach Scope 20 Times							
640	Gallery Target & Test							
	A) Time							
	B) Malfunctions							
	C) Pierced Primers							
	D) Optical Clarity of Scope							
645	Inspect for Live Ammo							
655	Final Inspection							
	A) Headspace							
	B) Trigger Pull	2.69	2.68	2.68	2.67	2.68	7/7/96	WB
	C) Function							
660	Pack							

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06349126
2 Jan 1900

CENTROIDAL DISTANCES

0 TO 1	.570088
1 TO 2	.112486
1 TO 3	.39918
1 TO 4	.13324
1 TO 5	.315002

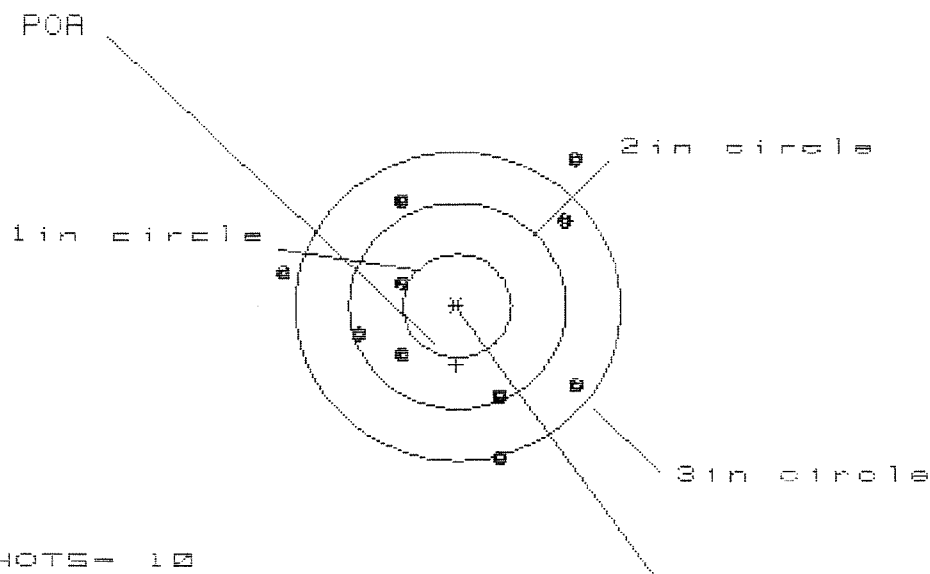
mean
+ 3 <----POI

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0552
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .5934
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .595962
THE AMR FOR THIS RIFLE IS: 1.018

2 Jan 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C8349126

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1 in = 0

2 in = 3

3 in = 7

HS= 2.763

VS= 2.921

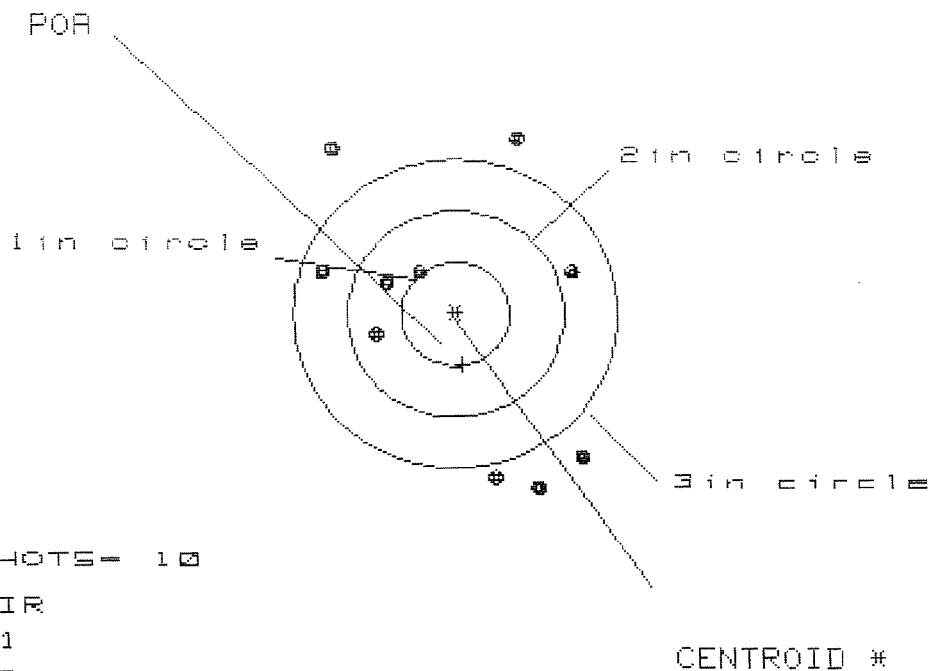
CS= 3.017

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.118	1.242	1.052
MINIMUM X	-1.645	-1.521	-.936
MAXIMUM Y	1.464	1.241	1.309
MINIMUM Y	-1.457	-1.295	-1.227
CENTROID X	.010	-.114	.076
CENTROID Y	.570	.408	.340
POA TO CENTROID in.	.570	.423	.349
MIN RADIUS	.592	.519	.644
MEAN RADIUS	1.212	1.107	1.051
MAX RADIUS	1.842	1.614	1.412
HORIZONTAL SPREAD	2.763	2.763	1.988
VERTICAL SPREAD	2.921	2.536	2.536
EXTREME SPREAD	3.017	3.009	2.667
NUMBER IN ONE INCH CIRCLE =	0		
NUMBER IN TWO INCH CIRCLE =	3		
NUMBER IN THREE INCH CIRCLE =	7		

2 Jan 1968

FILE:/PATTERNING/CENTERFIRE_PATT/06349126

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1 in = 1

2 in = 3

3 in = 5

HE= 2.415

VS= 3.403

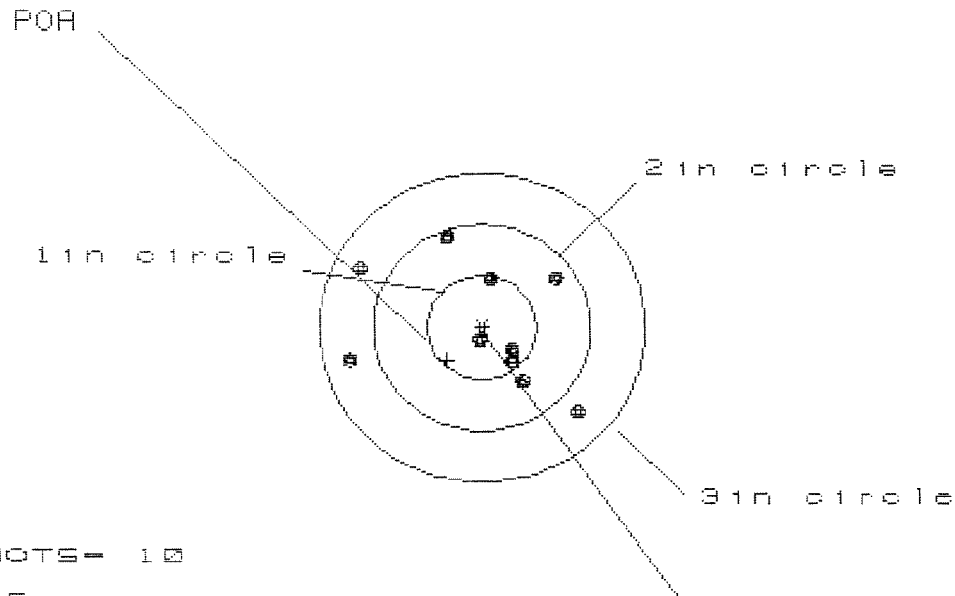
GS= 3.750

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.186	1.064	1.146
MINIMUM X	:	-1.229	-1.351	-1.269
MAXIMUM Y	:	1.729	1.903	1.716
MINIMUM Y	:	-1.674	-1.500	-1.590
CENTROID X	:	-.067	.055	-.027
CENTROID Y	:	.488	.314	.501
POA TO CENTROID in.	:	.493	.319	.502
MIN RADIUS	:	.491	.704	.505
MEAN RADIUS	:	1.347	1.302	1.219
MAX RADIUS	:	1.917	1.960	1.822
HORIZONTAL SPREAD	:	2.415	2.415	2.415
VERTICAL SPREAD	:	3.403	3.403	3.306
EXTREME SPREAD	:	3.750	3.408	3.311
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		5	

2 Jan 1988

FILE:/PATTERNING/CENTERFIRE_PATT/08349126

CENTERFIRE PATTERNS # 3



OF SHOTS= 10

IN CIR

1in = 4

2in = 7

3in = 10

HS= 3.004

VS= 1.662

GS= 2.394

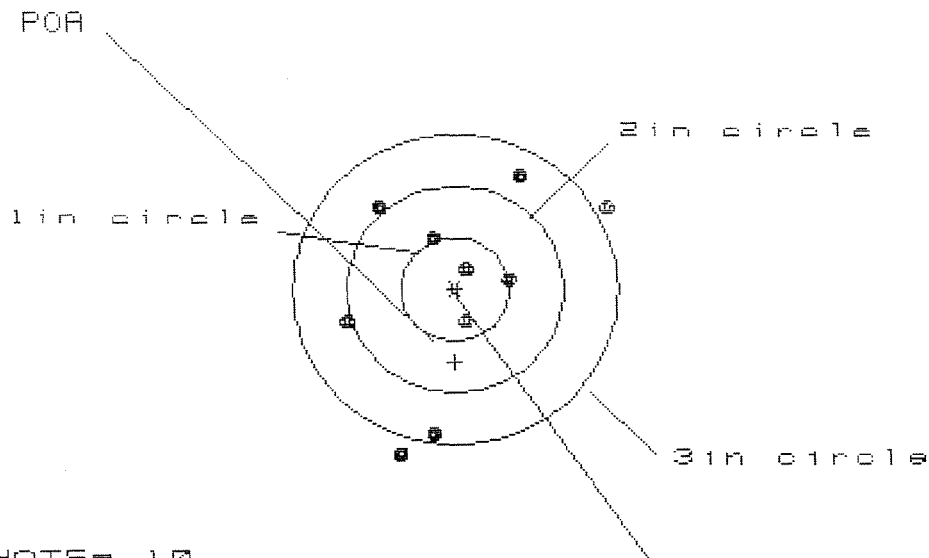
CENTROID #

PATTERN #	3		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.831	.705	.542
MINIMUM X	-1.173	-1.299	-.567
MAXIMUM Y	.836	.896	.862
MINIMUM Y	-.826	-.766	-.800
CENTROID X	.322	.448	.611
CENTROID Y	.321	.261	.295
POA TO CENTROID in.	.455	.519	.678
MIN RADIUS	.139	.166	.174
MEAN RADIUS	.743	.655	.564
MAX RADIUS	1.257	1.327	1.031
HORIZONTAL SPREAD	2.004	2.004	1.109
VERTICAL SPREAD	1.662	1.662	1.662
EXTREME SPREAD	2.394	2.074	1.998
NUMBER IN ONE INCH CIRCLE	=	4	
NUMBER IN TWO INCH CIRCLE	=	7	
NUMBER IN THREE INCH CIRCLE	=	10	

2 Jan 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C8349126

CENTERFIRE PATTERNS # 4



OF SHOTS = 10

IN CID

1 in = 3

2 in = 4

3 in = 8

HS = 2.382

VS = 2.705

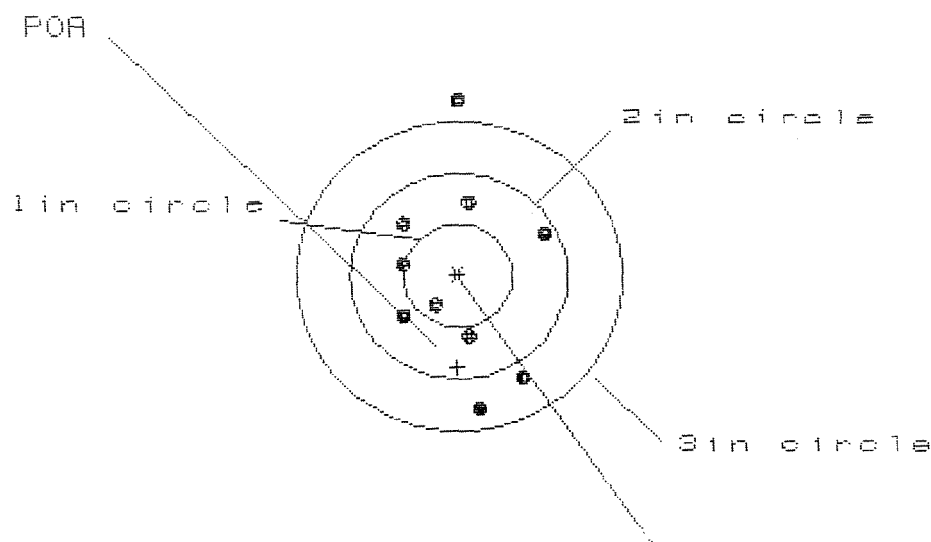
GS = 2.996

PATTERN #	4		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.383	1.331	.678
MINIMUM X	-.998	-1.051	-.885
MAXIMUM Y	1.125	.950	1.024
MINIMUM Y	-1.580	-1.529	-1.455
CENTROID X	.002	.054	-.112
CENTROID Y	.703	.878	.804
POA TO CENTROID in.	.703	.880	.812
MIN RADIUS	.227	.044	.215
MEAN RADIUS	.944	.832	.767
MAX RADIUS	1.649	1.555	1.459
HORIZONTAL SPREAD	2.382	2.382	1.563
VERTICAL SPREAD	2.705	2.479	2.479
EXTREME SPREAD	2.996	2.669	2.603
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		4	
NUMBER IN THREE INCH CIRCLE =		8	

2 Jan 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6349126

CENTERFIRE PATTERNS # 5



OF SHOTS= 10

IN CIR

1 in = 2

2 in = 7

3 in = 8

HS= 1.289

VS= 2.933

GS= 2.936

CENTROID *

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.761	.763	.782
MINIMUM X	:	-.528	-.526	-.507
MAXIMUM Y	:	1.680	.919	.786
MINIMUM Y	:	-1.253	-1.066	-.918
CENTROID X	:	.009	.007	-.012
CENTROID Y	:	.885	.698	.831
POA TO CENTROID in.	:	.885	.698	.832
MIN RADIUS	:	.324	.207	.270
MEAN RADIUS	:	.844	.725	.679
MAX RADIUS	:	1.680	1.077	1.126
HORIZONTAL SPREAD	:	1.289	1.289	1.289
VERTICAL SPREAD	:	2.933	1.985	1.704
EXTREME SPREAD	:	2.936	1.987	1.864
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	