

C6348963

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.





RECORDS CONTROL SCHEDULE

RECORDS CATEGORY OR TITLE:

138 - MISCELLANEOUS REPORTS

COPY "O" (OFFICIAL) ☐ "X" (EXTRA) ☒

TOTAL RETENTION: UNTIL SUPERSEDED OR

OBSOLETE

GS-11050 Rev. 8/78

SPORTS

Final Inspection

S.N. C6348963

DATE REC'D: 9-27-00

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

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:

MISC.

☐ DD-250☐ BAR CODE☐ PACKAGING

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

BARBER - M24 0042648

Remington Test Lab, Ilion, N.Y.

Centroidal distance calculations for Rifle # c6348963
7 Nov 2000

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .1142
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0762
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .137288

THE AMR FOR THIS RIFLE IS: 1.24

CENTROIDAL DISTANCES

0 TO 1	.599654
1 TO 2	1.13332
1 TO 3	.555442
1 TO 4	.872069
1 TO 5	.579037

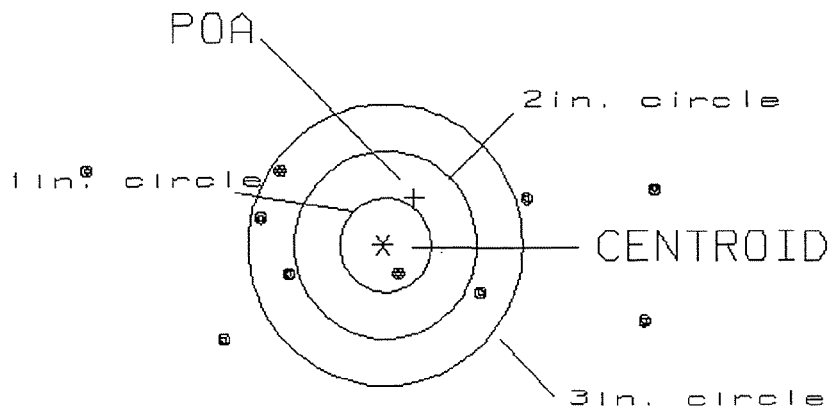
2
3 5 4 <----POA
1

PATTERN #: ☐ 1 ☐
 POA TO CENTROID: .600
 MIN RADIUS : .373
 MEAN RADIUS : 1.855
 MAX RADIUS : 3.395
 CENTROID X : -.337
 CENTROID Y : -.496

6 Nov 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6348963.1

CENTERFIRE PATTERN # 1



OF SHOTS= 10

IN CIRCLE

HS= 6.28
 VS= 1.74
 GS= 6.39

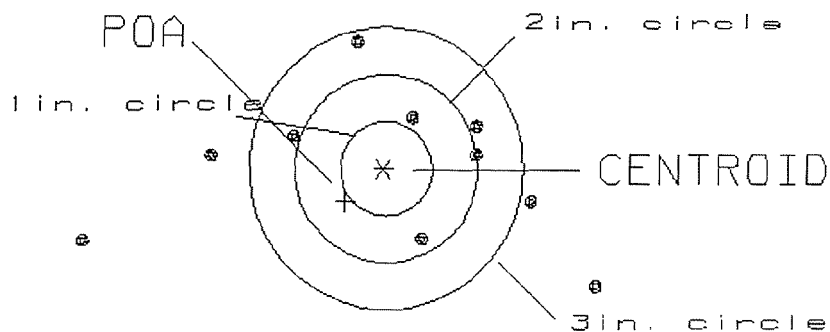
1
 1
 5

PATTERN #: ☐ 2 ☐
 POA TO CENTROID: .544
 MIN RADIUS : .560
 MEAN RADIUS : 1.548
 MAX RADIUS : 3.376
 CENTROID X : .416
 CENTROID Y : .351

6 Nov 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6348963.1

CENTERFIRE PATTERN # 2



OF SHOTS= 10

IN CIRCLE

HS= 5.58

0

VS= 2.57

2

GS= 5.60

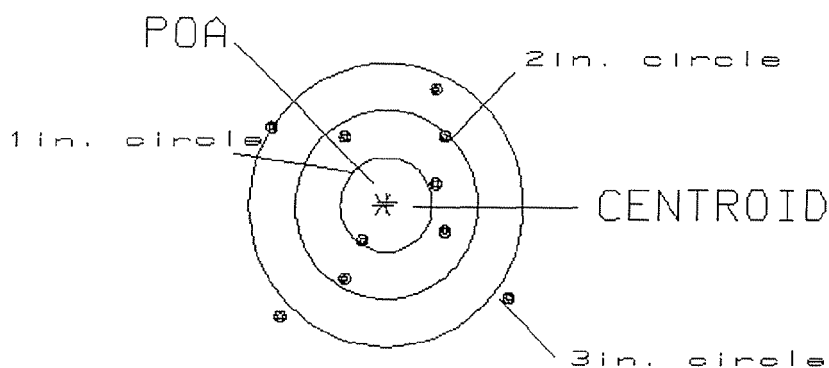
6

PATTERN #: ☐ 3 ☐
 POA TO CENTROID: .049
 MIN RADIUS : .463
 MEAN RADIUS : 1.062
 MAX RADIUS : 1.700
 CENTROID X : -.041
 CENTROID Y : -.026

6 Nov 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6348963.1

CENTERFIRE PATTERN # 3



OF SHOTS= 10

IN CIRCLE

HS= 2.55
 VS= 2.45
 GS= 3.15

1
 6
 3

BARBER - M24 0042652

REMINGTON CENTERFIRE ACCURACY TEST

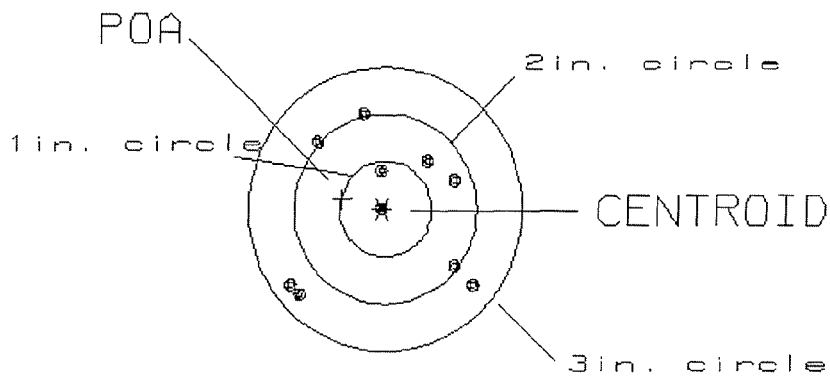
REMINGTON TEST LAB, ILION, N.Y.

PATTERN #: ☐ 4 ☐

POA TO CENTROID: .454
MIN RADIUS : .029
MEAN RADIUS : .878
MAX RADIUS : 1.274
CENTROID X : .442
CENTROID Y : -.104

6 Nov 2000

FILE://Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6348963.1

CENTERFIRE PATTERN # 4

OF SHOTS= 10

IN CIRCLE

HS= 2.01

2

VS= 1.91

5

GS= 2.27

10

PATTERN #: ☐ 5 ☐

POA TO CENTROID: .140

MIN RADIUS : .148

MEAN RADIUS : .857

MAX RADIUS : 1.934

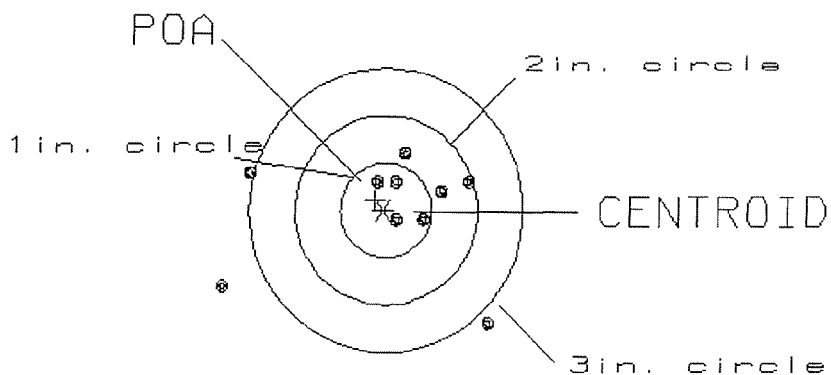
CENTROID X : .091

CENTROID Y : -.106

6 Nov 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6348963.1

CENTERFIRE PATTERN # 5



OF SHOTS= 10

IN CIRCLE

HS= 2.82

4

VS= 1.81

7

GS= 3.03

7

BARBER - M24 0042654

Remington Test Lab, Ilion, N.Y.

Centroidal distance calculations for Rifle # c6348963
3 Nov 2000

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0398
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.5628
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .564206

THE AMR FOR THIS RIFLE IS: 1.616

CENTROIDAL DISTANCES

0 TO 1	.814553
1 TO 2	.226385
1 TO 3	.345352
1 TO 4	.441209
1 TO 5	.806817

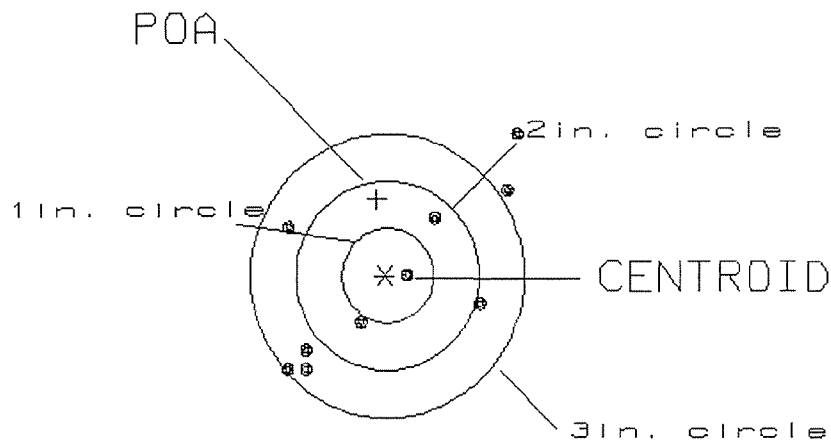
5 + <----POA
3 4
1
2

PATTERN #: 1
 POA TO CENTROID: .814
 MIN RADIUS : .193
 MEAN RADIUS : 1.144
 MAX RADIUS : 2.060
 CENTROID X : .086
 CENTROID Y : -.810

3 Nov 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6348963

CENTERFIRE PATTERN # 1



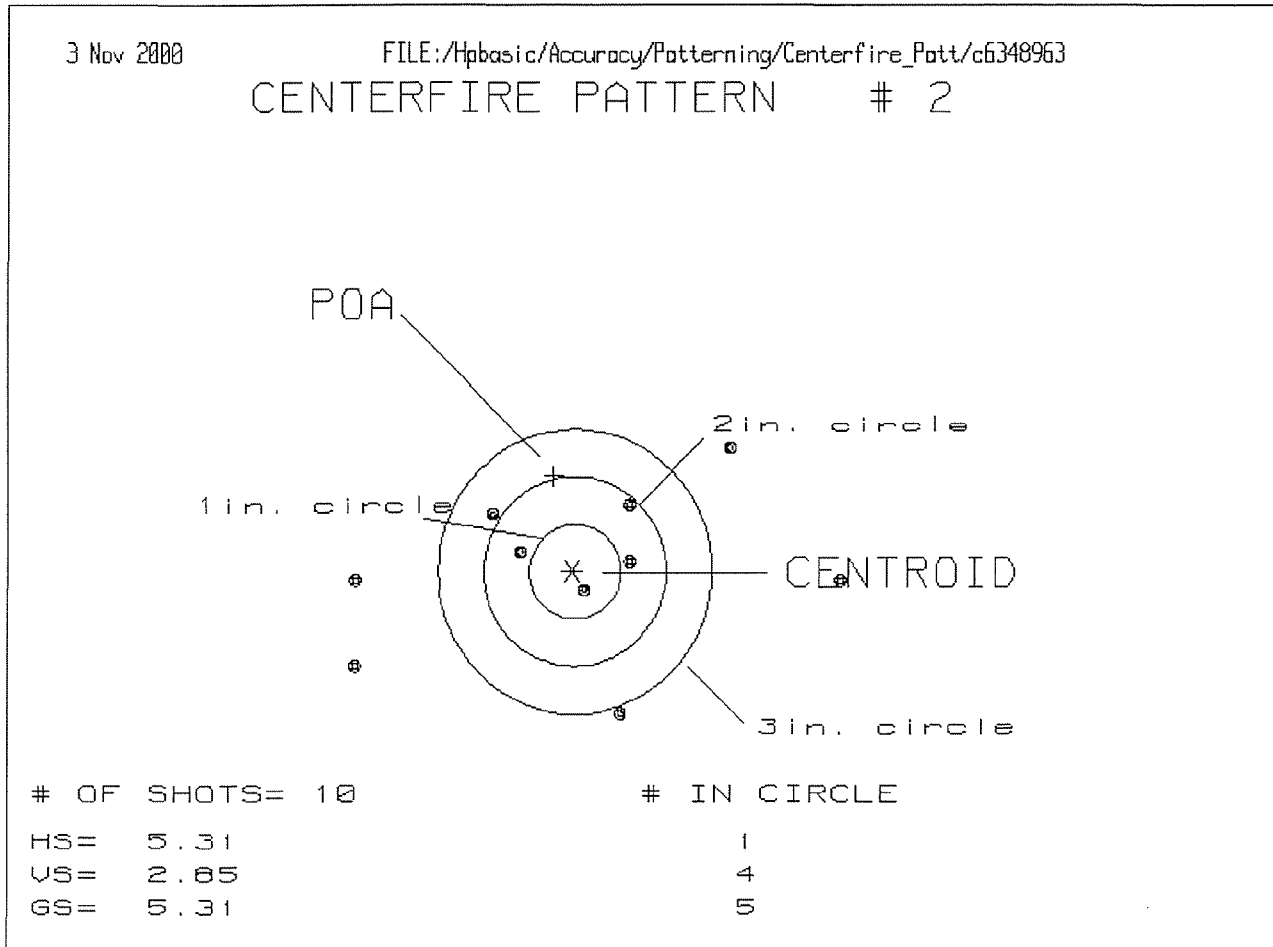
OF SHOTS= 10

IN CIRCLE

HS= 2.51
 US= 2.52
 GS= 3.54

1
 3
 6

PATTERN #: ☐ 2 ☐
 POA TO CENTROID: 1.025
 MIN RADIUS : .254
 MEAN RADIUS : 1.510
 MAX RADIUS : 2.867
 CENTROID X : .201
 CENTROID Y : -1.005

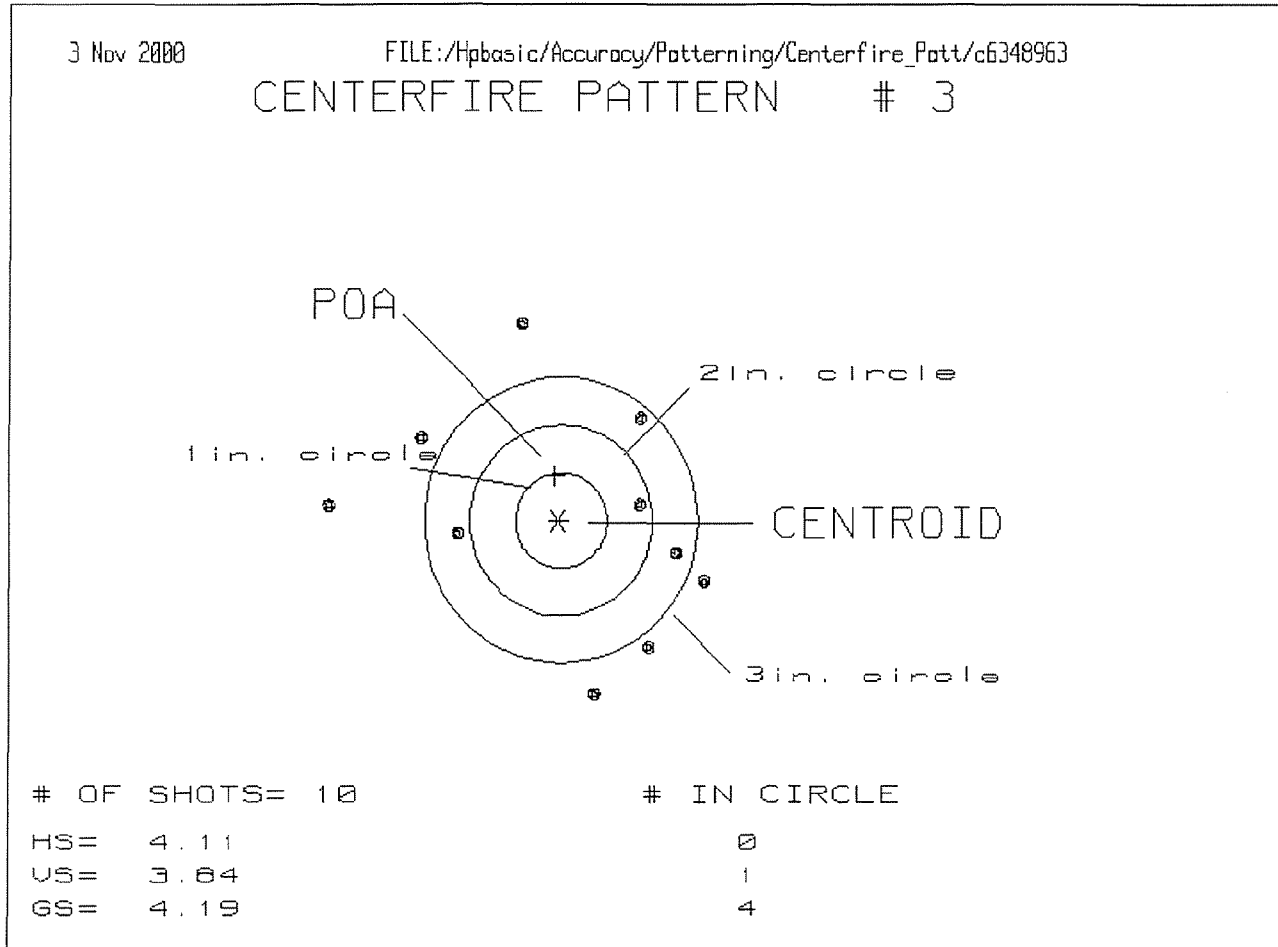


BARBER - M24 0042657

REMINGTON CENTERFIRE ACCURACY TEST

REMINGTON TEST LAB, ILION, N.Y.

PATTERN #: 3
 POA TO CENTROID: .470
 MIN RADIUS : .843
 MEAN RADIUS : 1.621
 MAX RADIUS : 2.579
 CENTROID X : .038
 CENTROID Y : -.468



BARBER - M24 0042658

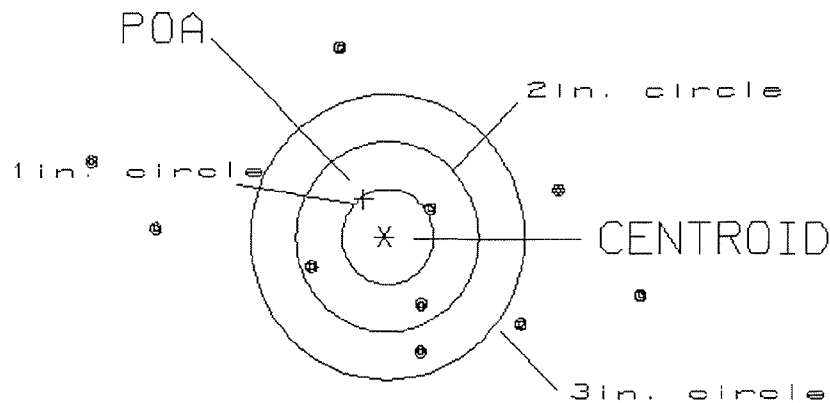
REMINGTON CENTERFIRE ACCURACY TEST

REMINGTON TEST LAB, ILION, N.Y.

PATTERN #: ☐ 4 ☐
POA TO CENTROID: .457
MIN RADIUS : .543
MEAN RADIUS : 1.785
MAX RADIUS : 3.330
CENTROID X : .233
CENTROID Y : -.394

3 Nov 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6348963

CENTERFIRE PATTERN # 4

OF SHOTS= 10

IN CIRCLE

HS= 6.03

0

VS= 3.24

3

GS= 6.19

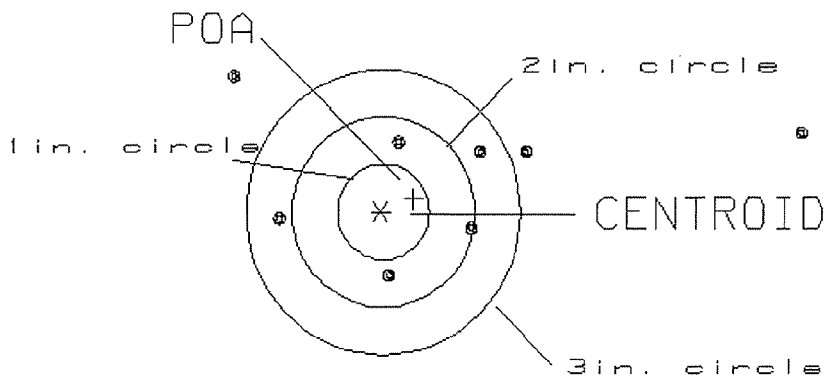
4

PATTERN #: 5
 POA TO CENTROID: .385
 MIN RADIUS : .636
 MEAN RADIUS : 2.021
 MAX RADIUS : 4.725
 CENTROID X : -.359
 CENTROID Y : -.137

3 Nov 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6348963

CENTERFIRE PATTERN # 5



OF SHOTS= 10

IN CIRCLE

HS= 9.05

0

VS= 3.43

2

GS= 9.31

5

BARBER - M24 0042660

Remington Test Lab, Ilion, N.Y.

Centroidal distance calculations for Rifle # c6348963
1 Nov 2000

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.1868
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .493
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .527203

THE AMR FOR THIS RIFLE IS: 1.468

CENTROIDAL DISTANCES

0 TO	1	.376198
1 TO	2	.988342
1 TO	3	.840901
1 TO	4	.894133
1 TO	5	1.47884

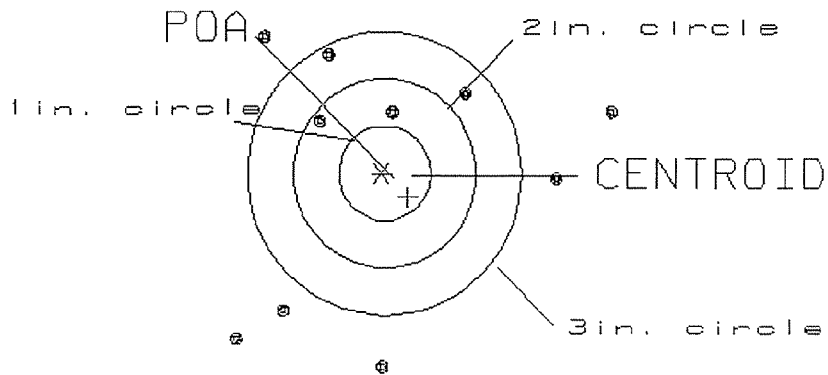
2 5
4³ 1
+ <----POA

PATTERN #: 1
 POA TO CENTROID: .377
 MIN RADIUS : .624
 MEAN RADIUS : 1.667
 MAX RADIUS : 2.556
 CENTROID X : -.282
 CENTROID Y : .249

31 Oct 2000

FILE:/Hqbasic/Accuracy/Patterning/Centerfire_Patt/C6348963

CENTERFIRE PATTERN # 1



OF SHOTS= 10

IN CIRCLE

HS= 4.10

0

VS= 3.51

2

GS= 4.73

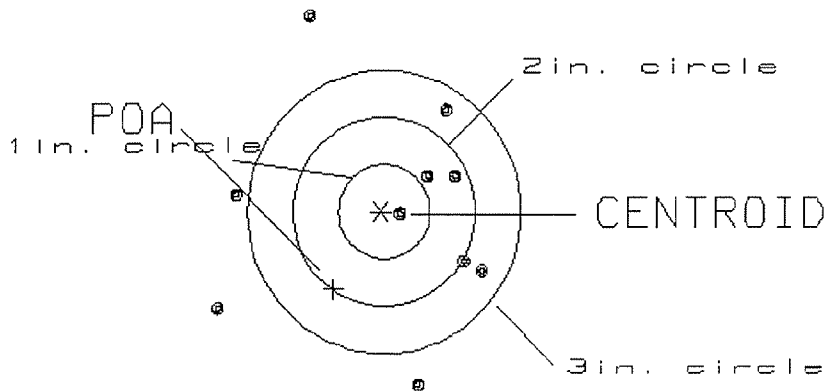
4

PATTERN #: ☐ 2 ☐
 POA TO CENTROID: .974
 MIN RADIUS : .156
 MEAN RADIUS : 1.279
 MAX RADIUS : 2.223
 CENTROID X : .524
 CENTROID Y : .821

31 Oct 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/C6348963

CENTERFIRE PATTERN # 2



OF SHOTS= 10

IN CIRCLE

HS= 2.92
 VS= 3.86
 GS= 4.04

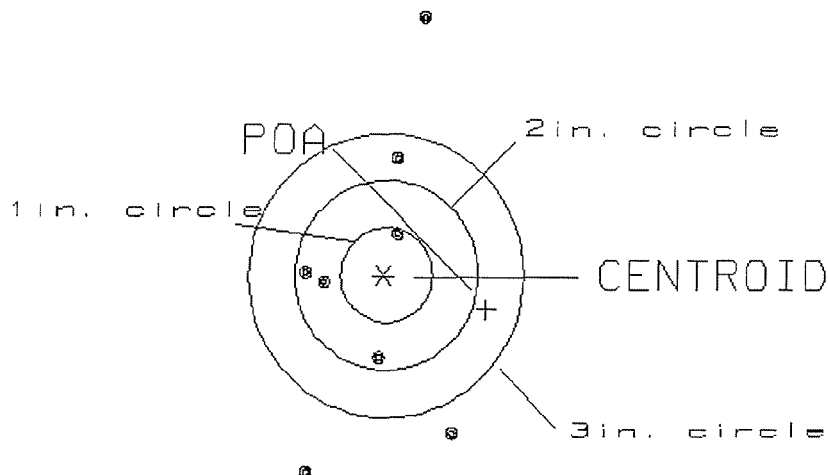
1
 4
 6

PATTERN #: 3
 POA TO CENTROID: 1.173
 MIN RADIUS : .434
 MEAN RADIUS : 1.867
 MAX RADIUS : 4.031
 CENTROID X : -1.115
 CENTROID Y : .364

31 Oct 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/C6348963

CENTERFIRE PATTERN # 3



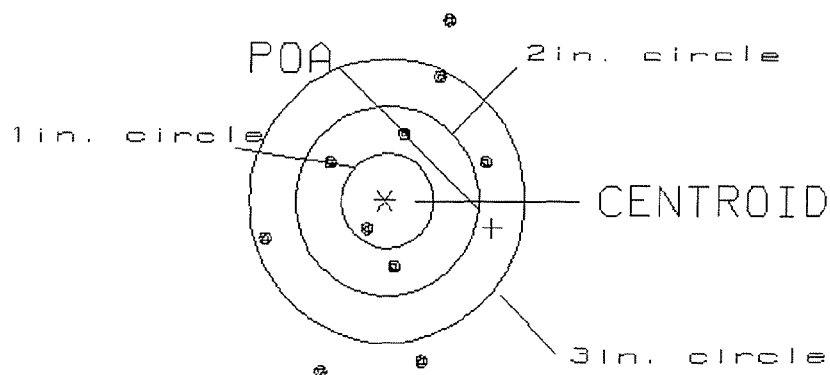
# OF SHOTS= 10	# IN CIRCLE
HS= 1.70	1
VS= 7.65	4
GS= 7.66	5

PATTERN #: 4
 POA TO CENTROID: 1.211
 MIN RADIUS : .330
 MEAN RADIUS : 1.224
 MAX RADIUS : 2.011
 CENTROID X : -1.175
 CENTROID Y : .294

31 Oct 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/C6348963

CENTERFIRE PATTERN # 4



OF SHOTS= 10

IN CIRCLE

HS= 2.43
 VS= 3.70
 GS= 3.99

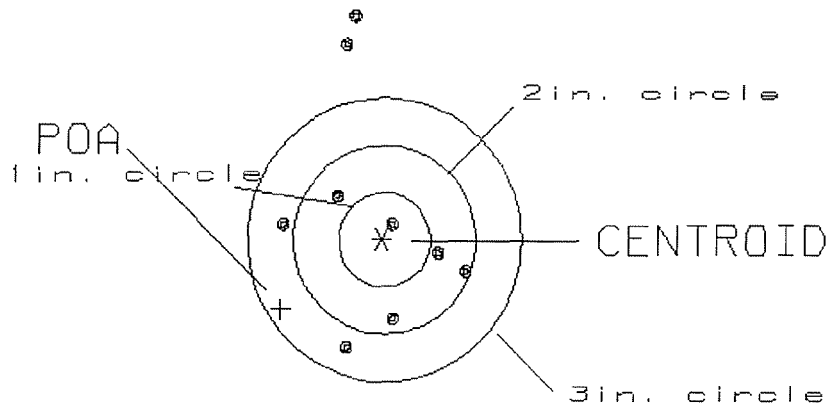
1
 4
 7

PATTERN #: 5
 POA TO CENTROID: 1.336
 MIN RADIUS : .170
 MEAN RADIUS : 1.303
 MAX RADIUS : 2.977
 CENTROID X : 1.114
 CENTROID Y : .737

31 Oct 2000

FILE:/Hqbasic/Accuracy/Patterning/Centerfire_Patt/C6348963

CENTERFIRE PATTERN # 5



OF SHOTS= 10

IN CIRCLE

HS= 2.20

1

VS= 5.13

5

GS= 5.33

7

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

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

MODEL 700™ M24

SERIAL NO.
 C6348963

ORDER NO.
 5716

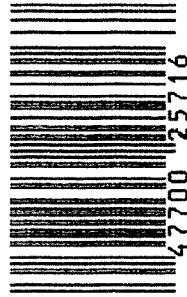
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada Marquis Deposee.

Ø1



5716 C6348963

UPC



0 47700 25716 7

Scanned
05/12

GUN SERIAL # C6348963

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	9 14	89	RW
600	Proof	9 14	89	RW
607	Check Headspace	9 14	89	RW
610	Dis-assemble Gun	9 14	89	RW
612	Magnaflux Barrel Action	9-14-89		KER
	Magnaflux Bolt	9-14-89		KER
615	Rollmark Caliber		9-15-89	GS
7	Drill and Tap Sight Holes	9 15	89	ZB
618	Polish Barrel	9 15	89	BT
620	Apply Coatings (Barrel Action)		9-15-89	JA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		9/26/89	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		9/26/89	RW
	C) Inspect Ejector Hole for Chamfer		9/26/89	RW
	D) Oil Firing Pin Ass'y		9/26/89	RW
	E) Adjust Trigger Pull to Min Setting and Stake		16 Oct 89	JS

op. #	BARBER - M24 0042668 OP. NAME	READINGS				DATE	INIT
625 cont.	F) Safety On Force	4	4	4		10/11/89	JK
	G) Safety Off Force	3	3	3		10/11/89	JK
	H) Trigger Pull Test & Retainability					10/11/89	JK
	I) Firing Pin Indent	.0205	.0205	.0205		10/11/89	JK
	J) Assemble Stock					10/11/89	RW
	K) Assemble Swivel Studs					13/11/89	JK
	L) Attach Front and Rear Sight Assemblies					10/11/89	RW
	M) Iron Sight Alignment					10/11/89	RW
	N) Detach Front & Rear Sights & place in numbered container					10/11/89	RW
	O) Attach Scope to Rifle					10/11/89	JK
	P) Detach & Attach Scope 20 Times					10/11/89	JK
640	Gallery Target & Test					10-12-89	AC
	A) Time					10-12-89	AC
	B) Malfunctions					10-12-89	AC
	C) Pierced Primers					10-12-89	AC
	D) Optical Clarity of Scope					10-12-89	AC
645	Inspect for Live Ammo					10-12-89	AC
655	Final Inspection						
	A) Headspace					13/11/89	JK
	B) Trigger Pull	264	275	275	281	269	13/11/89
	C) Function					13/11/89	JK
660	Pack					15/12/89	JK

MOD. _____		GA. CAL. _____	GUN # _____
# TEST	DATE	MALFUNCTION/DEFECT	ASSEM. #
	1st	shaves brass ✓ don't eject	OW
	2nd	100 Rd OK AC	
	3rd		
	4th		
		FUNCTION	RD 5654 Rev 1

TEST INIT. ACTION TO CORRECT		ASSEM. #
PROOF	100 Rel OK AC	
TEST		
TGT		
PROOF		
TEST		
TGT		
PROOF	ENGINEER	
TEST		
TGT		
PROOF	ENGINEER	
TEST		
TGT		

BARBER - M24-0042671

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS
2.50# + .50#
3.00# + .75#
4.00# + 1.00#

SERIAL NO. 8963DATE 22 Mar 90TESTER DS

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#	COMMENTS
PULL #1	245	247	247	MIN. SETTING,
PULL #2	245	244	246	NO AVG. OF 5
PULL #3	249	245	241	READINGS ACCEPT-
PULL #4	248	237	229	ABLE LESS THAN 2#
PULL #5	247	244	230	
TOTAL	1234	1217	1190	
AVG.	2468	2434	238	

	3.00# INITIAL	3.00# AFTER 20 CYCLES	COMMENTS
PULL #1	294	291	
PULL #2	280	280	
PULL #3	267	290	
PULL #4	301	291	
PULL #5	285	291	
TOTAL	1427	1453	
AVG.	2854	2906	

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	446	426		
PULL #2	440	430		
PULL #3	432	432		
PULL #4	429	430		
PULL #5	435	427		
TOTAL	2182	2145		
AVG.	4364	429		

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06348963
12 Oct 1989

CENTROIDAL DISTANCES

0 TO	1	.811227
1 TO	2	.719181
1 TO	3	.588562
1 TO	4	.930712
1 TO	5	.720584

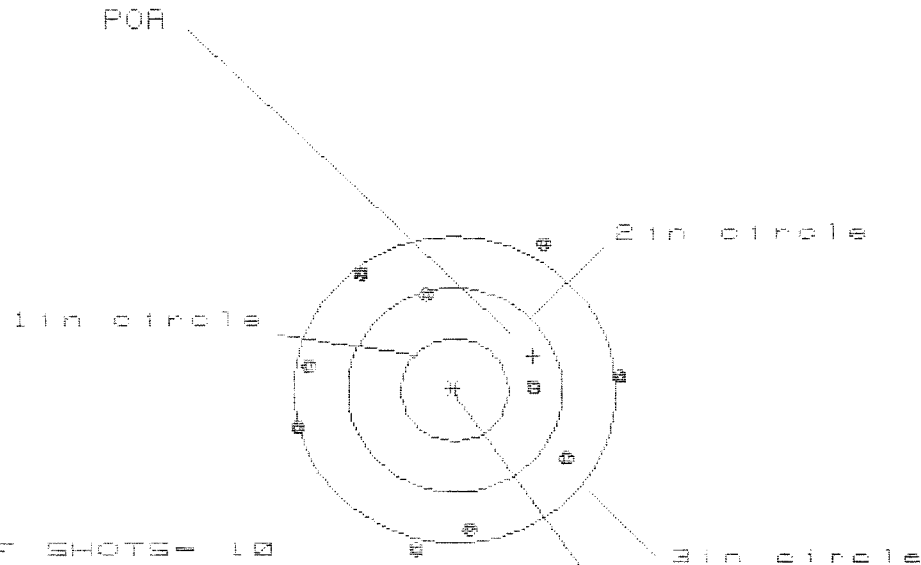
$\frac{\sum x_i}{n}$ + -----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.5012
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .198
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .538893
THE AMR FOR THIS RIFLE IS: .9276

12 OCT 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6348363

CENTERFIRE PATTERNS # 1



OF SHOTS - 10

IN CIR

1 in = 0

2 in = 2

3 in = 7

HS = 0.872

VS = 2.974

GS = 3.215

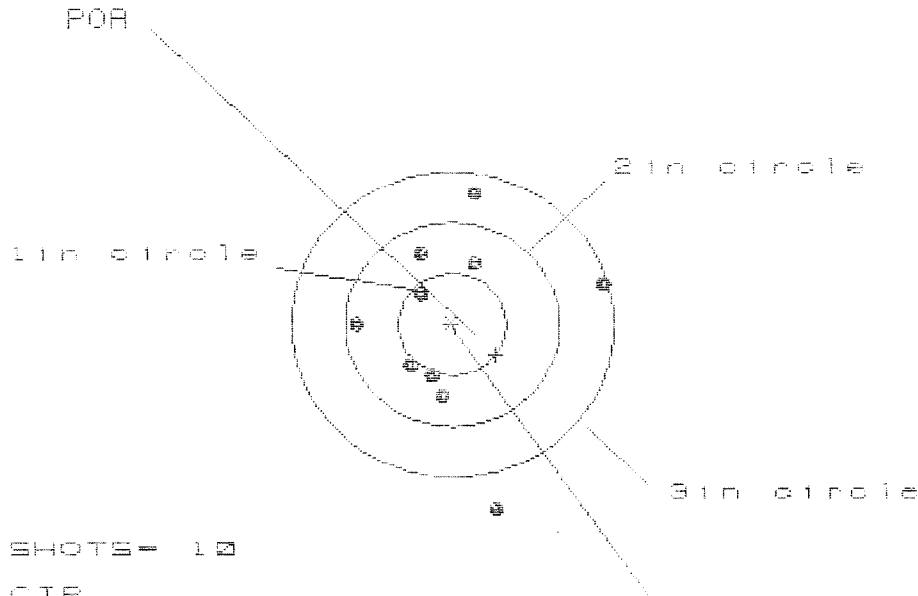
CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.531	1.623	1.586
MINIMUM X	-1.441	-1.349	-1.386
MAXIMUM Y	1.445	1.265	1.094
MINIMUM Y	-1.529	-1.369	-1.420
CENTROID X	-0.737	-0.829	-0.792
CENTROID Y	-0.339	-0.499	-0.328
POA TO CENTROID in.	.812	.968	.857
MIN RADIUS	.753	.865	.807
MEAN RADIUS	1.334	1.293	1.263
MAX RADIUS	1.665	1.652	1.591
HORIZONTAL SPREAD	2.972	2.972	2.972
VERTICAL SPREAD	2.974	2.634	2.514
EXTREME SPREAD	3.215	3.016	3.016
NUMBER IN ONE INCH CIRCLE =	0		
NUMBER IN TWO INCH CIRCLE =	2		
NUMBER IN THREE INCH CIRCLE =	7		

12 Oct 1989

FILE: \PATTERNING\CENTERFIRE_PATT\06346963

CENTERFIRE PATTERNS # 2



OF SHOTS = 10

IN CIR

1in = 1

2in = 7

3in = 8

CENTROID #

HS = 2.237

VS = 3.133

GS = 3.137

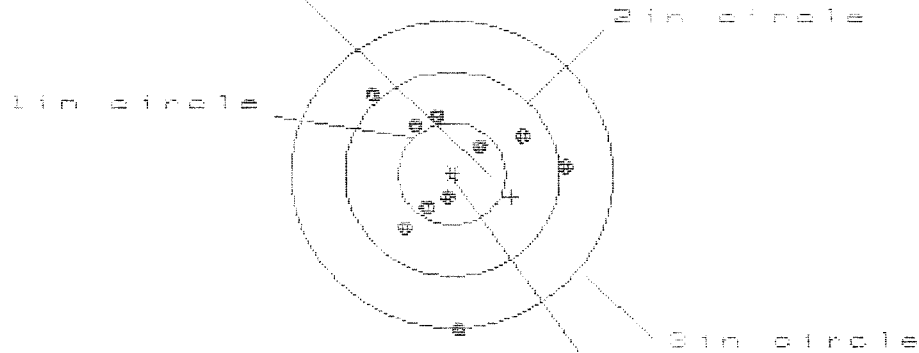
PATTERN #	2		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.377	1.422	.465
MINIMUM X	-.860	-.815	-.637
MAXIMUM Y	1.306	1.103	1.133
MINIMUM Y	-1.827	-.944	-.914
CENTROID X	-.407	-.452	-.630
CENTROID Y	.300	.503	.473
POA TO CENTROID in.	.505	.676	.787
MIN RADIUS	.424	.272	.150
MEAN RADIUS	.909	.774	.655
MAX RADIUS	1.872	1.442	1.225
HORIZONTAL SPREAD	2.237	2.237	1.102
VERTICAL SPREAD	3.133	2.047	2.047
EXTREME SPREAD	3.137	2.275	2.082
NUMBER IN ONE INCH CIRCLE =		1	
NUMBER IN TWO INCH CIRCLE =		7	
NUMBER IN THREE INCH CIRCLE =		9	

12 Oct 1989

FILE:/PATTERNING/CENTERFIRE_PATT/06340963

CENTERFIRE PATTERNS # 3

POA



OF SHOTS = 10

IN CIR

1in = 3

2in = 7

3in = 10

CENTROID *

HS = 1.777

VS = 2.282

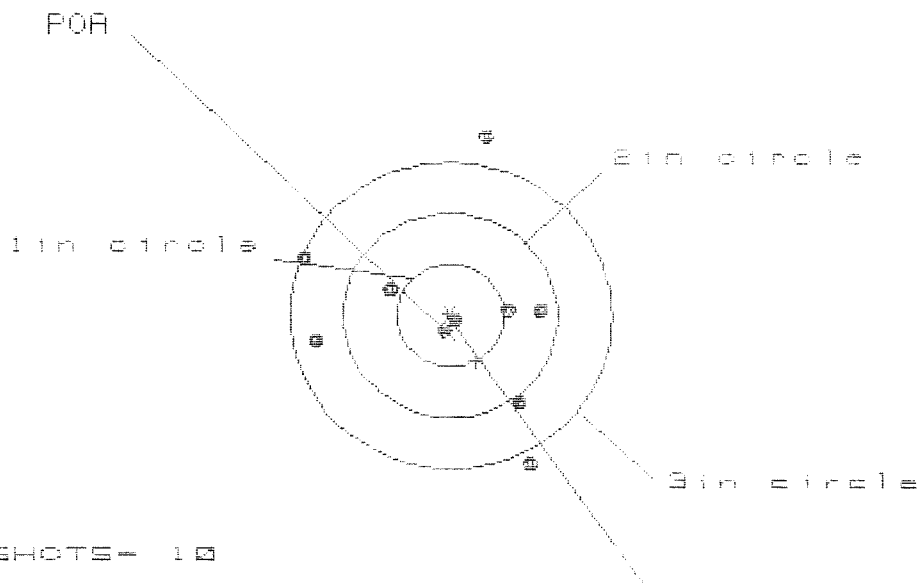
GS = 2.397

PATTERN #	3	3	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.059	1.061	.972
MINIMUM X	-.718	-.716	-.559
MAXIMUM Y	.782	.616	.472
MINIMUM Y	-1.500	-.686	-.609
CENTROID X	-.559	-.561	-.472
CENTROID Y	.222	.388	.311
POA TO CENTROID in.	.602	.692	.565
MIN RADIUS	.245	.293	.267
MEAN RADIUS	.734	.635	.593
MAX RADIUS	1.500	1.069	.973
HORIZONTAL SPREAD	1.777	1.777	1.531
VERTICAL SPREAD	2.282	1.382	1.081
EXTREME SPREAD	2.397	1.928	1.628
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		7	
NUMBER IN THREE INCH CIRCLE =		10	

12 Oct 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08348983

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 5

3 in = 8

HS= 2.171

VS= 3.165

GS= 3.189

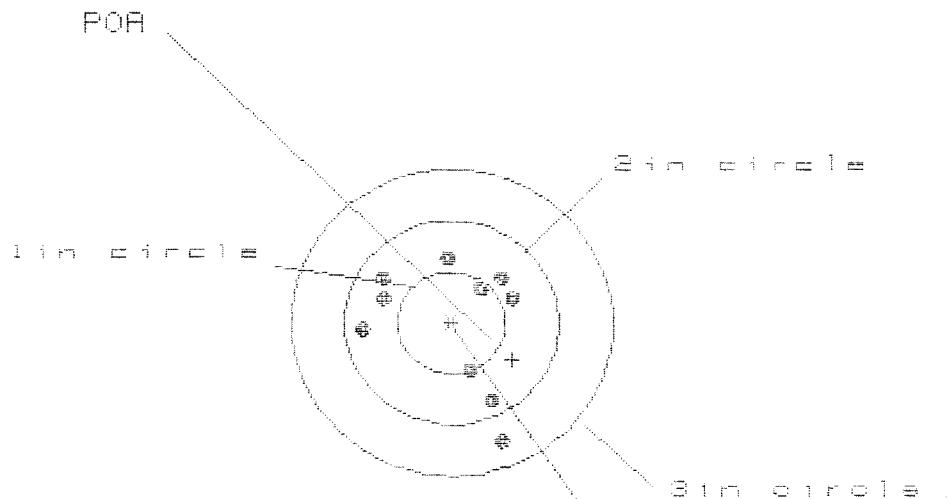
CENTROID #

PATTERN #	4		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.829	.808	.966
MINIMUM X	-1.342	-1.303	-1.205
MAXIMUM Y	1.757	.717	.566
MINIMUM Y	-1.408	-1.213	-.761
CENTROID X	-.237	-.276	-.374
CENTROID Y	.446	.251	.402
POA TO CENTROID in.	.505	.373	.549
MIN RADIUS	.109	.079	.103
MEAN RADIUS	.939	.836	.755
MAX RADIUS	1.793	1.487	1.331
HORIZONTAL SPREAD	2.171	2.171	2.171
VERTICAL SPREAD	3.165	1.930	1.327
EXTREME SPREAD	3.189	2.842	2.412
NUMBER IN ONE INCH CIRCLE	=	2	
NUMBER IN TWO INCH CIRCLE	=	5	
NUMBER IN THREE INCH CIRCLE	=	8	

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CENTERFIRE PATTERNS # 5



OF SHOTS = 10

IN CIR

1in = 2

2in = 8

3in = 10

HS = 1.396

VS = 1.799

GS = 1.979

PATTERN #	5		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.527	.576	.473
MINIMUM X	-.869	-.820	-.716
MAXIMUM Y	.638	.509	.487
MINIMUM Y	-1.161	-.896	-.918
CENTROID X	-.566	-.615	-.512
CENTROID Y	.361	.490	.512
POA TO CENTROID in.	.672	.786	.724
MIN RADIUS	.449	.384	.296
MEAN RADIUS	.722	.645	.604
MAX RADIUS	1.241	.996	.976
HORIZONTAL SPREAD	1.396	1.396	1.189
VERTICAL SPREAD	1.799	1.405	1.405
EXTREME SPREAD	1.979	1.633	1.633
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		9	
NUMBER IN THREE INCH CIRCLE =		10	