

C6587659

MODEL 700TM M24

Model **SMS** TM

Action

Barrel Length

Capacity

Order No. **5715**

*Includes 1 in chamber.

Remington

M2400024717

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

RECEIVING AND ESTIMATING REPORT

COMMENTS

ORDER
R 94-18123INITIAL
FDC CUSTOMER ORDER NO.
DAAA09-92-C-0834W/10X SCOPE M-24 SNIPER, W/DEPLOYMENT KIT
ATTN: FRED MARTINDATE RECEIVED
06/09/94 DATE OPENED
06/09/94 DATE CODESERIAL NUMBER
C6587659

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 36201-5025COMMANDER (W52H094138H226)
DEFENSE DIST DEPOT ANNISTON
ATTN DDAA-UR BLDG 112
ANNISTON AL

36201-5025

CUST NO: 098397 CJO.D

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
✓ Stock
✓ Trigger Assy
✓ Firing Pin Assy
✓ Front & Rear Sight Assy

REPAIRMAN

PROOF

CLEAN

TEST

TARGET

PATTERN

GALLERY TESTER

DATE

DATE

DATE

DATE

DATE

4/18/96

4/18/96

OFFICE COPY

RD6925 REV. 1/94

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

M2400024718

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C687659

DATE 4-17-96

TESTER DA

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#	COMMENTS
PULL #1	2.44	2.70	2.40	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.42	2.75	2.41	
PULL #3	2.42	2.78	2.42	
PULL #4	2.37	2.51	2.28	
PULL #5	2.52	2.49	2.32	
TOTAL	12.17	13.23	11.83	
AVG.	2.43	2.64	2.36	

	3.00# INITIAL	3.00# AFTER 20 CYCLES	COMMENTS
PULL #1	3.24	3.08	
PULL #2	3.17	3.14	
PULL #3	3.14	3.04	
PULL #4	3.10	3.03	
PULL #5	3.12	3.03	
TOTAL	15.77	15.32	
AVG.	3.15	3.06	

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.22	4.12		4.09
PULL #2	4.20	4.10		4.23
PULL #3	4.17	4.10		4.16
PULL #4	4.00	4.05		4.16
PULL #5	4.07	4.08		4.24
TOTAL	20.66	20.45		20.88
AVG.	4.13	4.09		4.17

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6587659
22 Feb 1900

CENTROIDAL DISTANCE

0 TO	1	.293946
1 TO	2	.477895
1 TO	3	.464037
1 TO	4	.279959
1 TO	5	.478987

$\frac{1}{5}$ <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .1924
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .3524
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .401502
THE AMR FOR THIS RIFLE IS: .9522

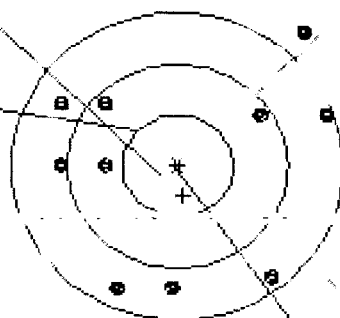
22 Feb 1988

FILE: /PATTERNING/CENTERFIRE_PATT 0858 X 88

CENTERFIRE PATTERNS

FOR

1 in circle



3 in circle

CENTROID #

OF SHOTS- 10

IN CIR

1 in - 0

2 in - 3

3 in - 9

HS= 2.438

VS= 2.540

GS= 3.076

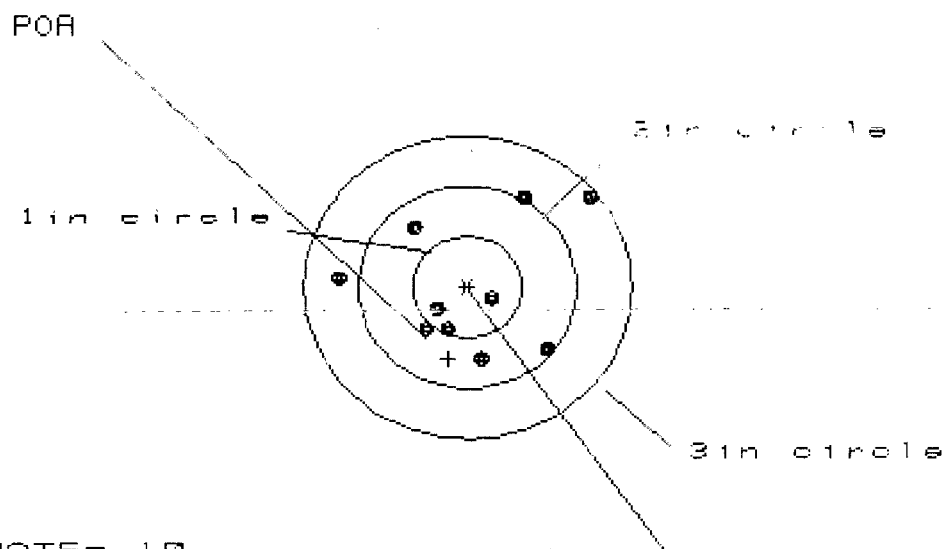
PATTERN #	:	1	2	3
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.352	1.481	1.204
MINIMUM X	:	-1.086	-.957	-.772
MAXIMUM Y	:	1.327	.763	.841
MINIMUM Y	:	-1.213	-1.065	-.987
CENTROID X	:	-.048	-.177	-.362
CENTROID Y	:	.290	.142	.064
POA TO CENTROID in.	:	.294	.227	.368
MIN RADIUS	:	.628	.528	.401
MEAN RADIUS	:	1.185	1.096	.995
MAX RADIUS	:	1.762	1.606	1.502
HORIZONTAL SPREAD	:	2.438	2.438	1.976
VERTICAL SPREAD	:	2.540	1.828	1.828
EXTREME SPREAD	:	3.076	2.588	2.588
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		9	

22 Feb 1900

FILE:/PATTERNING/CENTERFIRE_PATT/06587659

CENTERFIRE PATTERNS

2



OF SHOTS- 10

IN CIR

1in = 3

2in = 7

3in = 10

HS= 2.294

VS= 1.553

GS= 2.419

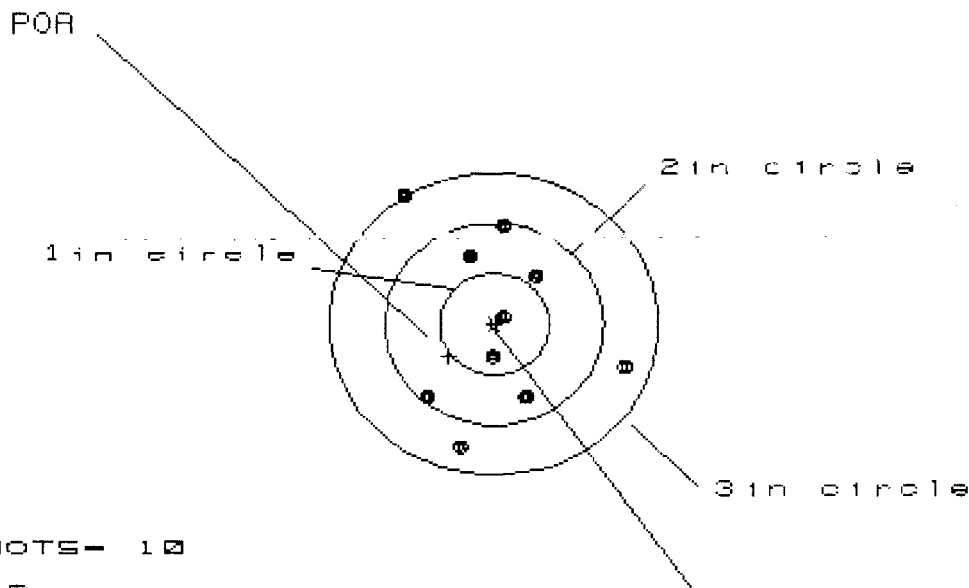
CENTROID *

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.087	.830	.695
MINIMUM X	:	-1.206	-1.086	-.507
MAXIMUM Y	:	.882	.979	1.005
MINIMUM Y	:	-.671	-.574	-.548
CENTROID X	:	.180	.059	.194
CENTROID Y	:	.710	.513	.587
POA TO CENTROID in.	:	.732	.615	.618
MIN RADIUS	:	.202	.218	.173
MEAN RADIUS	:	.762	.657	.596
MAX RADIUS	:	1.396	1.173	1.127
HORIZONTAL SPREAD	:	2.294	1.916	1.202
VERTICAL SPREAD	:	1.553	1.553	1.553
EXTREME SPREAD	:	2.419	2.042	1.664
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		10	

22 Feb 1988

FILE:/PATTERNING/CENTERFIRE_PATT/06587653

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 2

2in = 6

3in = 10

HS= 1.944

VS= 2.488

GS= 2.554

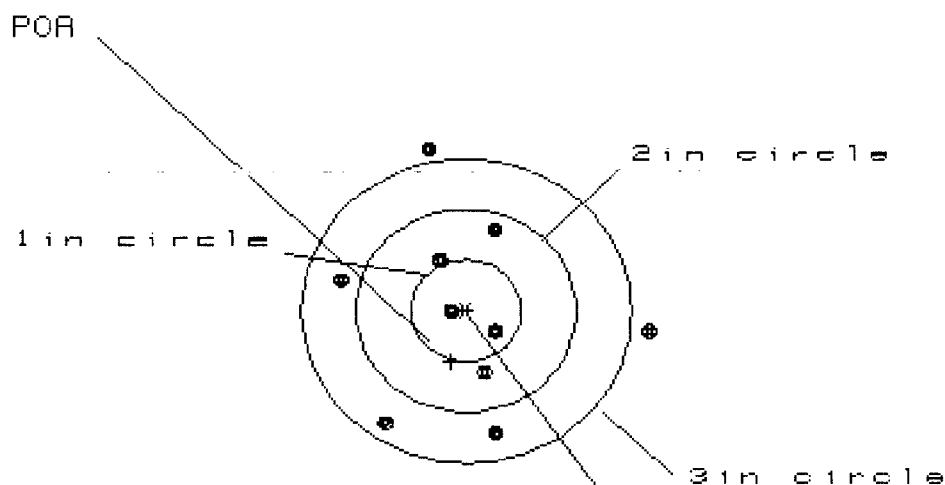
CENTROID *

PATTERN #	:	3	:	8
SHOTS (BEST OF)	:	10	:	8
MAXIMUM X	:	1.145	:	1.010
MINIMUM X	:	-.799	:	-.724
MAXIMUM Y	:	1.244	:	1.026
MINIMUM Y	:	-1.244	:	-.767
CENTROID X	:	.415	:	.549
CENTROID Y	:	.321	:	.321
POA TO CENTROID in.	:	.525	:	.636
MIN RADIUS	:	.106	:	.132
MEAN RADIUS	:	.855	:	.720
MAX RADIUS	:	1.478	:	1.091
HORIZONTAL SPREAD	:	1.944	:	1.735
VERTICAL SPREAD	:	2.488	:	1.793
EXTREME SPREAD	:	2.554	:	1.913
NUMBER IN ONE INCH CIRCLE	=	2		
NUMBER IN TWO INCH CIRCLE	=	6		
NUMBER IN THREE INCH CIRCLE	=	10		

22 Feb 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6587659

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 5

3 in = 8

HS= 2.890

VS= 2.768

GS= 2.933

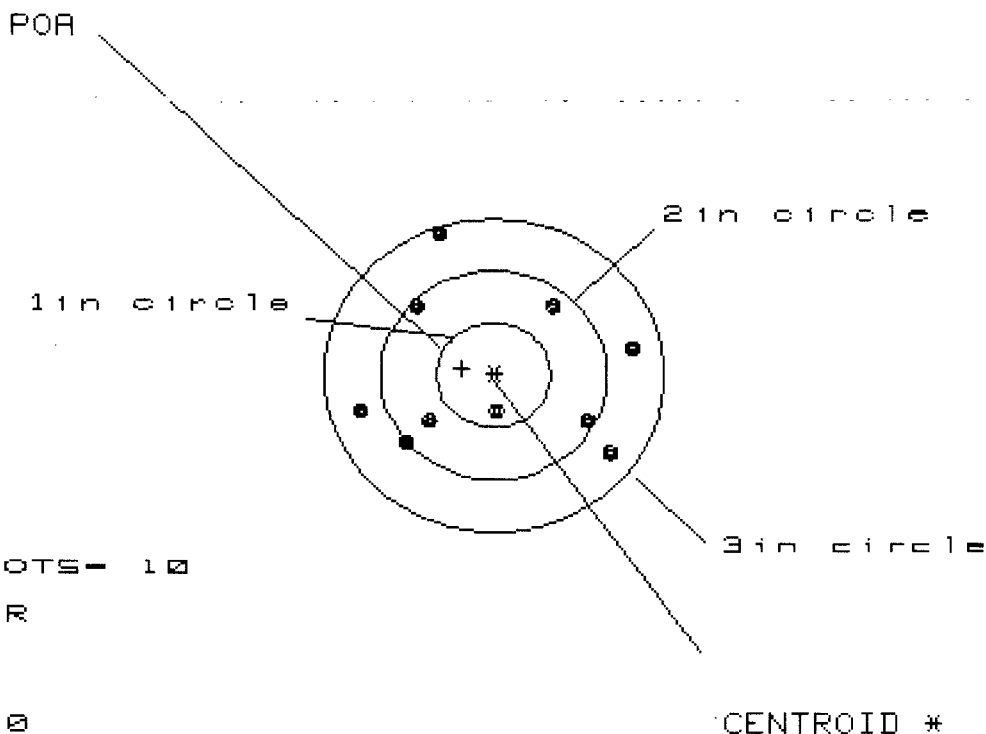
CENTROID *

PATTERN #	:	4	:	8
SHOTS (BEST OF)	:	10	:	8
MAXIMUM X	:	1.711	:	.432
MINIMUM X	:	-1.179	:	-1.012
MAXIMUM Y	:	1.603	:	1.027
MINIMUM Y	:	-1.164	:	-.985
CENTROID X	:	.136	:	-.031
CENTROID Y	:	.501	:	.322
POA TO CENTROID in.	:	.520	:	.324
MIN RADIUS	:	.148	:	.178
MEAN RADIUS	:	.964	:	.777
MAX RADIUS	:	1.719	:	1.134
HORIZONTAL SPREAD	:	2.890	:	1.444
VERTICAL SPREAD	:	2.768	:	2.012
EXTREME SPREAD	:	2.933	:	2.184
NUMBER IN ONE INCH CIRCLE	=	2		
NUMBER IN TWO INCH CIRCLE	=	5		
NUMBER IN THREE INCH CIRCLE	=	8		

22 Feb 1900

FILE:/PATTERNING/CENTERFIRE_PATT/C6587659

CENTERFIRE PATTERNS # 5



OF SHOTS - 10

IN CIR

1 in = 1

2 in = 5

3 in = 10

HS = 2.378

VS = 2.097

GS = 2.565

PATTERN #	:	5		
SHOTS (BEST OF)	:	10		8
MAXIMUM X	:	1.239	1.091	1.044
MINIMUM X	:	-1.139	1.117	1.044
MAXIMUM Y	:	1.407	.770	.827
MINIMUM Y	:	-.690	-.534	-.477
CENTROID X	:	.279	.333	.184
CENTROID Y	:	-.060	-.215	-.273
POA TO CENTROID in.	:	.285	.197	.329
MIN RADIUS	:	.375		.194
MEAN RADIUS	:	.995	.717	.850
MAX RADIUS	:	1.487	1.269	1.190
HORIZONTAL SPREAD	:	2.378	2.378	2.135
VERTICAL SPREAD	:	2.097	1.304	1.304
EXTREME SPREAD	:	2.565	2.454	2.169
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		10	

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6587659

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			

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	9	9	9			5/7/96	WB
	G) Safety Off Force	2 3/4	2 3/4	2 3/4			5/7/96	WB
	H) Trigger Pull Test & Retainability							
	I) Firing Pin Indent	.023	.022	.023			5/7/96	WB
	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	2.60	2.69	2.64	2.65	2.61	5/7/96	WB
	C) Function							
660	Pack							

Remington



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

MODEL 700TM H24

SERIAL NO.
C6587659

ORDER NO.
5716

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

01



5716 C6587659

UPC



0 47700 25716 7

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

M2400024728

OK - SIG HTS
OK - ES. PIN

M-24

CONTRACT # DAAA21-87-C-0086

INTERCHANGEABILITY

GUN SERIAL # C 6587659

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	QUALITY AUDIT	10/24/90	Kd
600	Proof		10/24/90	Kd
607	Check Headspace		10/24/90	Kd
610	Dis-assemble Gun		10/24/90	Kd
612	Magnaflux Barrel Action		10/30/90	KR
	Magnaflux Bolt		11	KR
615	Rollmark Caliber		11	LS
617	Drill and Tap Sight Holes		11/6/90	KB
618	Polish Barrel <i>KB</i>		11/7/90	WB
620	Apply Coatings (Barrel Action)		11-26-90	TA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		12/4/90	KS
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		12/4/90	KS
	C) Inspect Ejector Hole for Chamfer		12/4/90	KS
	D) Oil Firing Pin Ass'y		12/4/90	KS
	E) Adjust Trigger Pull to Min Setting and Stake		12/5/90	JK

op. #	OP. NAME	READINGS			DATE	INIT
625 cont.	F) Safety On Force	5	5	5	12/5/90	W/B
	G) Safety Off Force	2 1/4	2 1/4	2 1/4	12/5/90	W/B
	H) Trigger Pull Test & Retainability				12/5/90	gll
	I) Firing Pin Indent	023	0225	0225	12/5/90	W/B
	J) Assemble Stock				12/7/90	KS
	K) Assemble Swivel Studs				12-10-90	gll
	L) Attach Front and Rear Sight Assemblies				12/7/90	KS
	M) Iron Sight Alignment				12/7/90	KS
	N) Detach Front & Rear Sights & place in numbered container				12/7/90	KS
	O) Attach Scope to Rifle				12/7/90	KS
	P) Detach & Attach Scope 20 Times				12/7/90	KS
640	Gallery Target & Test				12/8/90	KJ
	A) Time					KJ
	B) Malfunctions					KJ
	C) Pierced Primers					KJ
	D) Optical Clarity of Scope					KJ
645	Inspect for Live Ammo				12/8/90	KJ
655	Final Inspection				12-10-90	gll
	A) Headspace					
	B) Trigger Pull	277	271	271	12-10-90	gll
	C) Function				12-10-90	gll
660	Pack				12-19-90	DH

SWS TRIGGER PULL TEST

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

SERIAL NO. 06587659
DATE 12/5/90
TESTER JP

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.32	2.45	2.39	2.71	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.38	2.44	2.29	2.71	
PULL #3	2.43	2.39	2.20	2.71	
PULL #4	2.42	2.48	2.47	2.68	
PULL #5	2.43	2.27	2.47	2.75	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.43	3.47		
PULL #2	3.47	3.49		
PULL #3	3.41	3.46		
PULL #4	3.45	3.21		
PULL #5	3.40	3.35		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.32	4.34		4.38
PULL #2	4.39	4.28		4.34
PULL #3	4.34	4.35		4.33
PULL #4	4.40	4.40		4.42
PULL #5	4.42	4.29		4.39
TOTAL				
AVG.				

INTERCHANGEABILITY

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6587659
12 Dec 1990

CENTROIDAL DISTANCES

0 TO 1	.320989
1 TO 2	.483207
1 TO 3	.278002
1 TO 4	.196901
1 TO 5	.502093

1.63 <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .019
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0976
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0994322

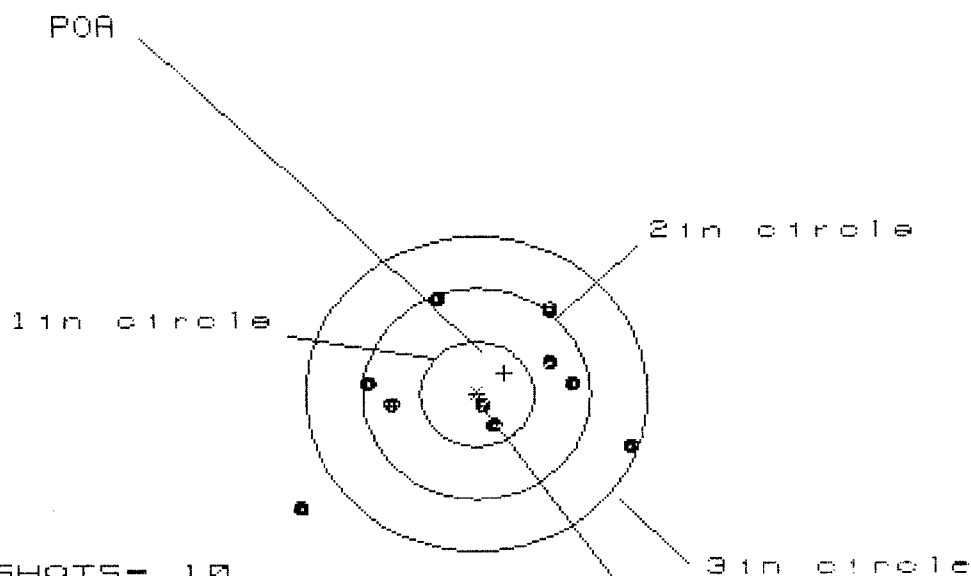
THE AMR FOR THIS RIFLE IS: 1.163

12 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587659

CENTERFIRE PATTERNS

1



OF SHOTS- 10

IN CIR

1in = 2

2in = 7

3in = 9

HS= 2.948

VS= 1.984

CS= 3.016

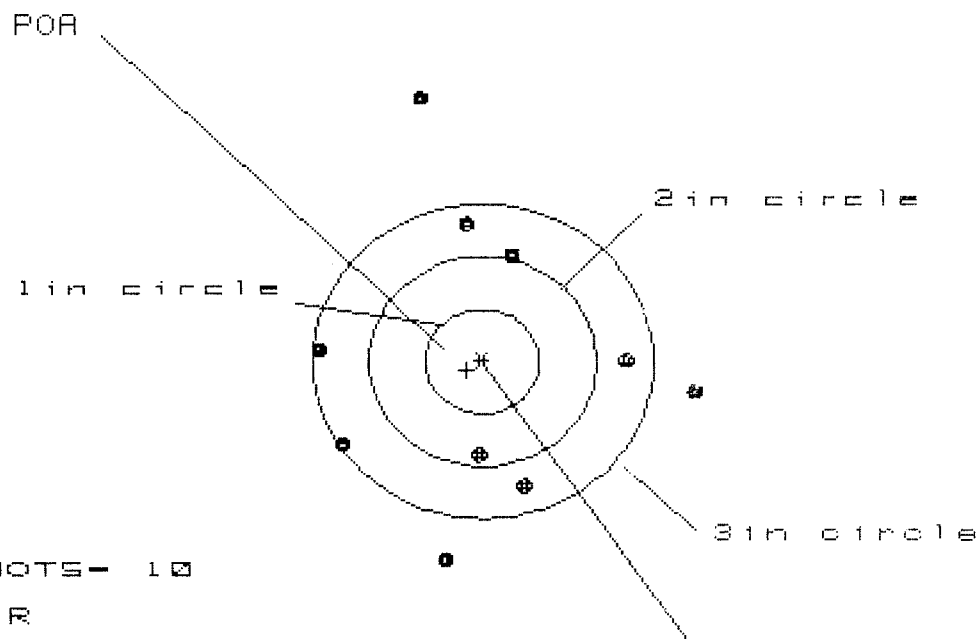
CENTROID *

PATTERN #	:	1	2	3
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.360	1.184	.833
MINIMUM X	:	-1.588	-1.115	-.968
MAXIMUM Y	:	.887	.765	.692
MINIMUM Y	:	-1.097	-.582	-.527
CENTROID X	:	-.247	-.071	-.218
CENTROID Y	:	-.205	-.083	-.010
POA TO CENTROID in.	:	.321	.109	.219
MIN RADIUS	:	.136	.285	.324
MEAN RADIUS	:	.919	.796	.735
MAI RADIUS	:	1.930	1.319	.974
HORIZONTAL SPREAD	:	2.948	2.299	1.800
VERTICAL SPREAD	:	1.984	1.347	1.219
EXTREME SPREAD	:	3.016	2.362	1.800
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	

12 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06587659

CENTERFIRE PATTERNS # 2



OF SHOTS - 10

IN CIR

1 in = 0

2 in = 1

3 in = 7

HS = 3.248

VS = 4.347

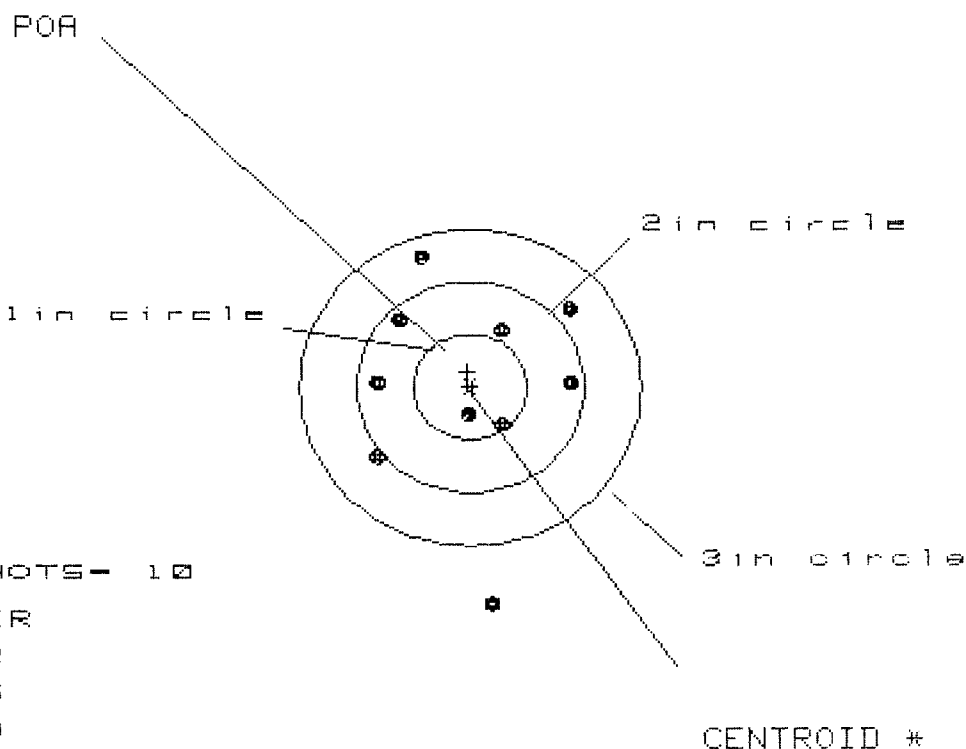
GS = 4.356

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.825	1.760	1.713
MINIMUM X	:	-1.423	-1.488	-1.535
MAXIMUM Y	:	2.482	1.614	1.415
MINIMUM Y	:	-1.865	-1.589	-1.125
CENTROID X	:	.138	.203	.250
CENTROID Y	:	.087	-.189	.010
POA TO CENTROID in.	:	.163	.278	.250
MIN RADIUS	:	.858	.592	.796
MEAN RADIUS	:	1.495	1.340	1.305
MAX RADIUS	:	2.550	1.760	1.727
HORIZONTAL SPREAD	:	3.248	3.248	3.248
VERTICAL SPREAD	:	4.347	3.203	2.540
EXTREME SPREAD	:	4.356	3.272	3.272
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		1	
NUMBER IN THREE INCH CIRCLE	=		7	

12 Dec 1998

FILE: /PATTERNING/CENTERFIRE_PATT/C6587659

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 6

3 in = 9

HS= 1.748

VS= 3.263

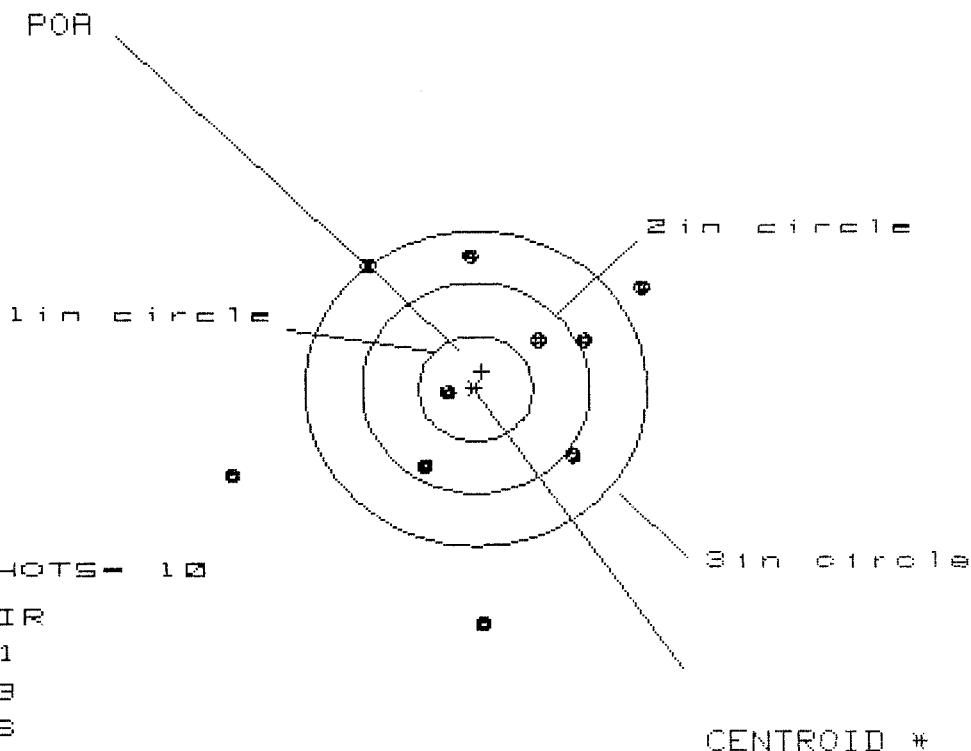
GS= 3.320

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.925	.948	.900
MINIMUM X	:	-.823	-.800	-.848
MAXIMUM Y	:	1.205	.976	.646
MINIMUM Y	:	-2.058	-.857	-.735
CENTROID X	:	.024	.001	.049
CENTROID Y	:	-.143	.086	-.036
POA TO CENTROID in.	:	.145	.086	.061
MIN RADIUS	:	.265	.487	.374
MEAN RADIUS	:	.947	.814	.769
MAX RADIUS	:	2.069	1.173	1.122
HORIZONTAL SPREAD	:	1.748	1.748	1.748
VERTICAL SPREAD	:	3.263	1.833	1.381
EXTREME SPREAD	:	3.320	2.197	2.197
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	

12 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587653

CENTERFIRE PATTERNS # 4



OF SHOTS - 10

IN CIR

1 in - 1

2 in - 3

3 in - 6

HS = 3.554

VS = 3.494

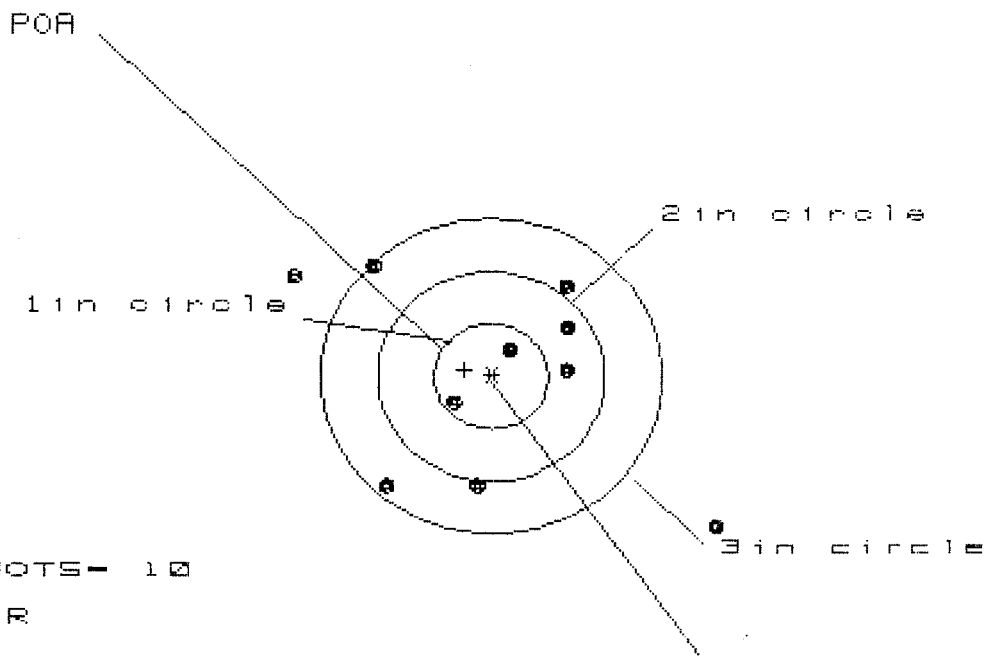
GS = 3.963

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.404	1.165	1.148
MINIMUM X	:	-2.150	-1.137	-1.154
MAXIMUM Y	:	1.223	1.136	.841
MINIMUM Y	:	-2.271	-2.358	-1.075
CENTROID X	:	-.054	.185	.202
CENTROID Y	:	-.166	-.079	.215
POA TO CENTROID in.	:	.175	.201	.295
MIN RADIUS	:	.279	.495	.291
MEAN RADIUS	:	1.296	1.159	.967
MAX RADIUS	:	2.289	2.362	1.417
HORIZONTAL SPREAD	:	3.554	2.302	2.302
VERTICAL SPREAD	:	3.494	3.494	1.917
EXTREME SPREAD	:	3.963	3.617	2.518
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		6	

12 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587659

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1in - 2

2in - 4

3in - 8

HS- 3.700

VS= 2.479

GS= 4.390

CENTROID #

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.978	.920	.732
MINIMUM X	:	-1.722	-1.502	-.960
MAXIMUM Y	:	1.083	.928	1.030
MINIMUM Y	:	-1.396	-1.159	-1.057
CENTROID X	:	.234	.014	.202
CENTROID Y	:	-.061	.094	-.008
POA TO CENTROID in.	:	.242	.095	.202
MIN RADIUS	:	.281	.381	.260
MEAN RADIUS	:	1.158	1.028	.899
MAX RADIUS	:	2.421	1.708	1.408
HORIZONTAL SPREAD	:	3.700	2.422	1.692
VERTICAL SPREAD	:	2.479	2.087	2.087
EXTREME SPREAD	:	4.390	2.591	2.438
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		8	

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6587659
8 Dec 1990

CENTROIDAL DISTANCES

0 TO	1	.0296142
1 TO	2	.34521
1 TO	3	.221639
1 TO	4	.244135
1 TO	5	.288716

DATA

<----POA

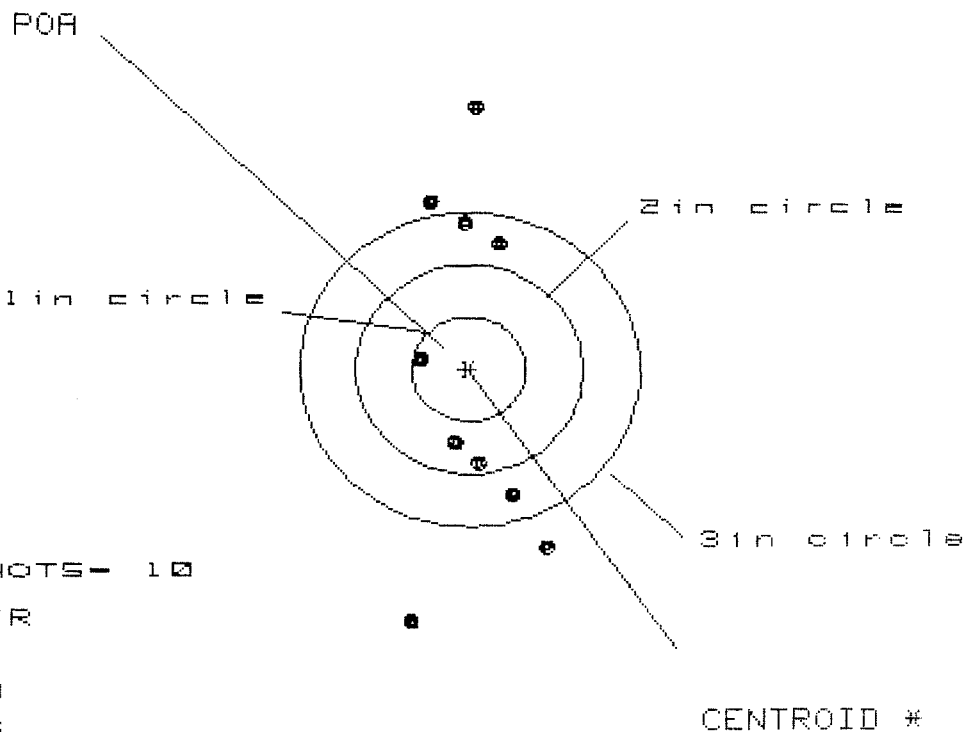
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0004
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0256
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0256031

THE AMR FOR THIS RIFLE IS: 1.209

8 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587659

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 3

3 in = 6

HS= 1.186

VS= 4.877

GS= 4.909

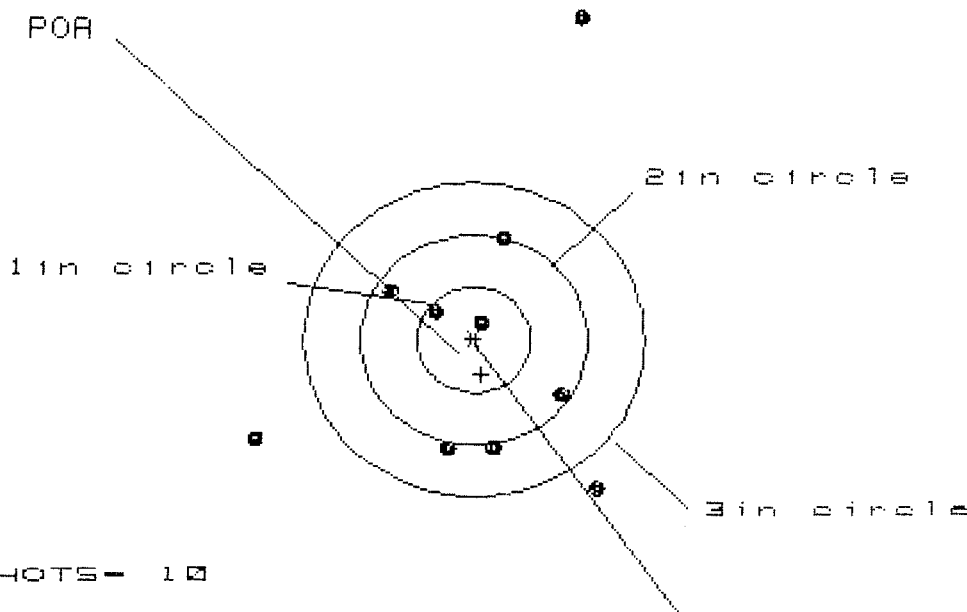
CENTROID #

PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.678	.684	.621
MINIMUM X	:	-.508	-.502	-.529
MAXIMUM Y	:	2.518	1.885	1.625
MINIMUM Y	:	-2.359	-2.079	-1.719
CENTROID X	:	.029	.023	.086
CENTROID Y	:	-.006	-.286	-.026
POA TO CENTROID in.	:	.029	.287	.090
MIN RADIUS	:	.479	.448	.539
MEAN RADIUS	:	1.452	1.289	1.201
MAX RADIUS	:	2.518	2.139	1.828
HORIZONTAL SPREAD	:	1.186	1.186	1.150
VERTICAL SPREAD	:	4.877	3.964	3.344
EXTREME SPREAD	:	4.909	3.967	3.497
NUMBER IN ONE INCH CIRCLE =			1	
NUMBER IN TWO INCH CIRCLE =			3	
NUMBER IN THREE INCH CIRCLE =			6	

8 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587659

CENTERFIRE PATTERNS # 2



OF SHOTS - 10

IN CIR

1 in = 2

2 in = 4

3 in = 7

HS = 3.040

VS = 4.438

GS = 4.967

CENTROID #

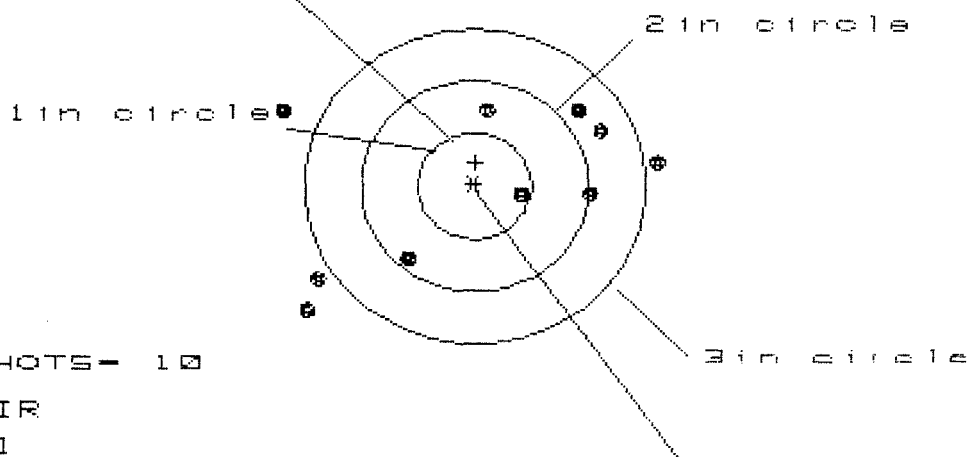
PATTERN #	:	2	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.078	1.187	.955
MINIMUM X	:	-1.962	-1.853	-.896
MAXIMUM Y	:	3.043	1.324	1.246
MINIMUM Y	:	-1.395	-1.057	-1.135
CENTROID X	:	-.062	-.171	.061
CENTROID Y	:	.327	-.011	.067
POA TO CENTROID in.	:	.333	.171	.091
MIN RADIUS	:	.208	.562	.448
MEAN RADIUS	:	1.274	1.055	.920
MAX RADIUS	:	3.195	1.956	1.483
HORIZONTAL SPREAD	:	3.040	3.040	1.851
VERTICAL SPREAD	:	4.438	2.381	2.381
EXTREME SPREAD	:	4.967	3.071	2.601
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		7	

6 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587659

CENTERFIRE PATTERNS # 3

POA



OF SHOTS- 10

IN CIR

1in = 1

2in = 4

3in = 5

HS= 3.347

VS= 1.996

GS= 3.469

CENTROID #

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.636	1.469	1.234
MINIMUM X	:	-1.711	-1.878	-1.797
MAXIMUM Y	:	.773	.637	.709
MINIMUM Y	:	-1.223	-1.053	-.981
CENTROID X	:	-.011	.156	.391
CENTROID Y	:	-.224	-.088	-.160
POA TO CENTROID in.	:	.224	.179	.422
MIN RADIUS	:	.424	.345	.173
MEAN RADIUS	:	1.258	1.135	.966
MAX RADIUS	:	1.937	1.963	2.047
HORIZONTAL SPREAD	:	3.347	3.347	3.031
VERTICAL SPREAD	:	1.996	1.690	1.690
EXTREME SPREAD	:	3.469	3.378	3.250
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		5	

8 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587659

CENTERFIRE PATTERNS

4

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS- 10

IN CIR

1 in - 2

2 in - 8

3 in - 10

HS- 1.719

VS= 2.100

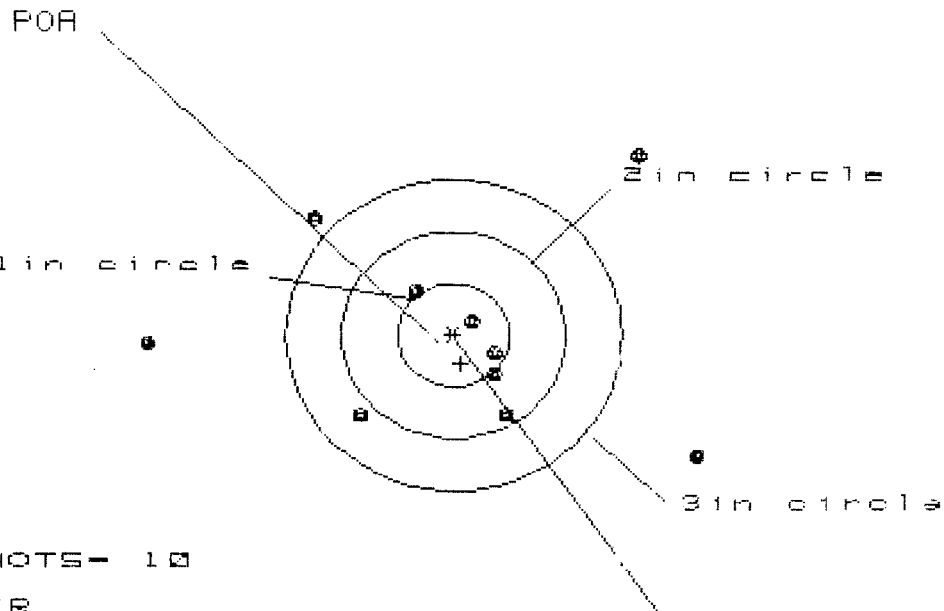
GS= 2.102

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.577	.544	.398
MINIMUM X	:	-1.142	-1.175	-.547
MAXIMUM Y	:	1.348	.928	.962
MINIMUM Y	:	-.752	-.602	-.568
CENTROID X	:	.108	.141	.287
CENTROID Y	:	-.237	-.387	-.421
POA TO CENTROID in.	:	.261	.412	.510
MIN RADIUS	:	.198	.298	.305
MEAN RADIUS	:	.754	.652	.563
MAX RADIUS	:	1.379	1.207	1.005
HORIZONTAL SPREAD	:	1.719	1.719	.945
VERTICAL SPREAD	:	2.100	1.530	1.530
EXTREME SPREAD	:	2.102	1.776	1.667
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		10	

8 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587659

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1in = 2

2in = 5

3in = 3

HS= 4.918

VS= 2.891

GS= 5.040

CENTROID #

PATTERN #	5	5	5
SHOTS (BEST OF)	10	9	8
MAXIMUM X	2.158	1.852	1.597
MINIMUM X	-2.760	-1.592	-1.361
MAXIMUM Y	1.686	1.674	1.522
MINIMUM Y	-1.205	-1.217	-0.962
CENTROID X	-0.062	.244	.013
CENTROID Y	.268	.280	.432
POA TO CENTROID in.	.275	.371	.432
MIN RADIUS	.226	.123	.154
MEAN RADIUS	1.307	1.109	.987
MAX RADIUS	2.762	2.215	2.206
HORIZONTAL SPREAD	4.918	3.444	2.958
VERTICAL SPREAD	2.891	2.891	2.404
EXTREME SPREAD	5.040	4.167	3.469
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		5	
NUMBER IN THREE INCH CIRCLE =		6	