

C6587723

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

RECEIVING AND ESTIMATING REPORT

COMMENTS

ORDER

R74-18049

INITIAL
FDC

CUSTOMER ORDER NO.

DAAA09-92-C-0834

W/10X SCOPE M-24 SNIPER, W/DEPLOYMENT KIT
ATTN: FRED MARTIN

Scope 90-1014

DATE RECEIVED
06/09/94DATE OPENED
06/09/94

DATE CODE

SERIAL NUMBER

C6587723

NEW SERIAL NUMBER

MODEL AND GRADE

700 7-62

NAY

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 C.OJD

ACCOUNT NUMBER

ACCOUNT NUMBER N/C

WRITE ☐

FROM 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
✓ Front & Rear Sight Assy

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

M2400025913

SWS TRIGGER PULL TEST

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

SERIAL NO. C6587723
DATE 3-4-96
TESTER DA

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#	COMMENTS
PULL #1	2.49	2.76	2.40	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.36	2.57	2.49	
PULL #3	2.61	2.41	2.54	
PULL #4	2.59	2.81	2.52	
PULL #5	2.65	2.79	2.50	
TOTAL	1270	1334	1245	
AVG.	2.54	2.66	2.49	

	3.00# INITIAL	3.00# AFTER 20 CYCLES	COMMENTS
PULL #1	3.17	3.26	
PULL #2	3.30	3.21	
PULL #3	3.28	3.32	
PULL #4	3.28	3.29	
PULL #5	3.36	3.39	
TOTAL	1639	1647	
AVG.	3.27	3.29	

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.08	4.06		4.37
PULL #2	4.19	4.03		4.36
PULL #3	4.00	4.12		4.46
PULL #4	4.26	4.20		4.01
PULL #5	4.23	4.00		4.40
TOTAL	2076	2041		2160
AVG.	4.15	4.08		4.32

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6587723
15 Jan 1980

CENTROIDAL DISTANCES

0 TO	1	1.19651
1 TO	2	.44504
1 TO	3	.30694
1 TO	4	.129016
1 TO	5	.452001

0.034

+ <-----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0034
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: 1.0174
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: 1.01741

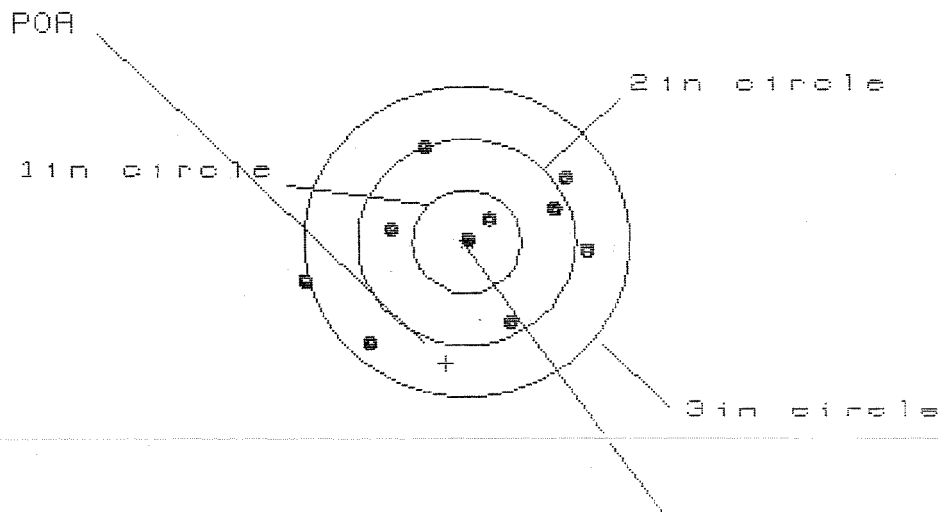
THE AMR FOR THIS RIFLE IS: .961

15 Jan 1968

FILE:/PATTERNING/CENTERFIRE_PATT/C6587723

CENTERFIRE PATTERNS

1



OF SHOTS- 10

IN CIR

1in = 2

2in = 5

3in = 3

HS= 2.572

VS= 1.917

GS= 2.608

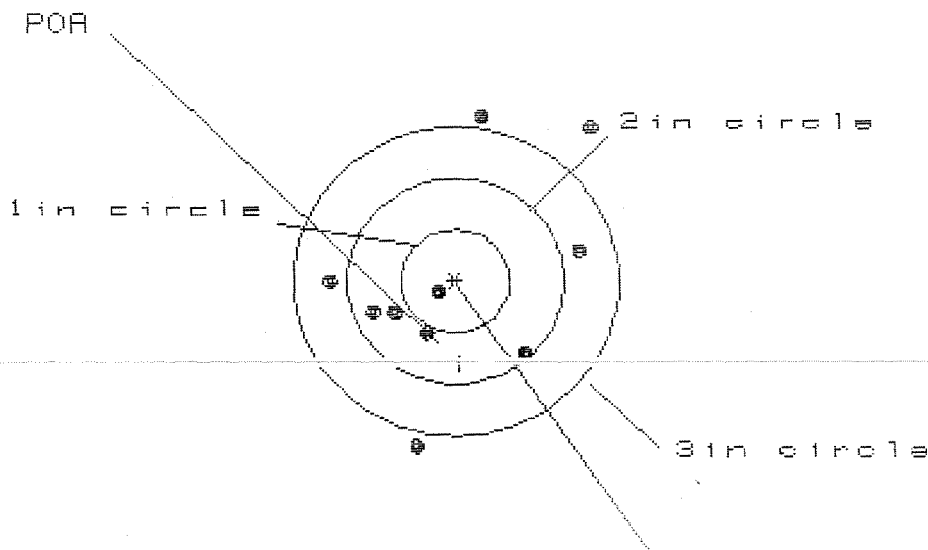
CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.067	.900	.767
MINIMUM X	-1.505	-1.063	-.944
MAXIMUM Y	.959	.919	.795
MINIMUM Y	-.958	-.998	-.982
CENTROID X	.192	.359	.492
CENTROID Y	1.181	1.221	1.345
POA TO CENTROID in.	1.196	1.272	1.433
MIN RADIUS	.051	.124	.142
MEAN RADIUS	.882	.786	.686
MAX RADIUS	1.547	1.458	1.040
HORIZONTAL SPREAD	2.572	1.963	1.711
VERTICAL SPREAD	1.917	1.917	1.777
EXTREME SPREAD	2.608	2.389	1.949
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	9		

15 Jan 1900

FILE:/PATTERNING/CENTERFIRE_PATT/08587723

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 5

3 in = 7

HS= 2.445

VS= 3.147

GS= 3.515

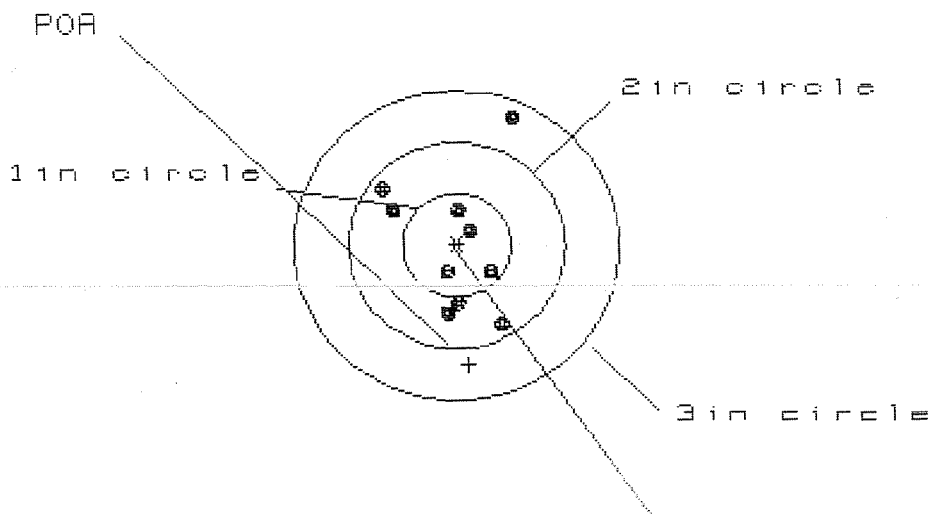
CENTROID #

PATTERN #	:	2	6	10
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.256	1.261	1.237
MINIMUM X	:	-1.190	-1.050	-1.074
MAXIMUM Y	:	1.554	1.725	1.548
MINIMUM Y	:	-1.593	-1.422	-1.688
CENTROID X	:	-.038	-.177	-.153
CENTROID Y	:	.800	.629	.806
POA TO CENTROID in.	:	.801	.653	.821
MIN RADIUS	:	.211	.097	.122
MEAN RADIUS	:	1.078	.906	.867
MAX RADIUS	:	1.988	1.774	1.595
HORIZONTAL SPREAD	:	2.445	2.311	2.311
VERTICAL SPREAD	:	3.147	3.147	2.236
EXTREME SPREAD	:	3.515	3.205	2.332
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		7	

15 Jan 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C8587723

CENTERFIRE PATTERNS # 3



OF SHOTS= 10

IN CIR

1in = 4

2in = 9

3in = 10

HS= 1.214

VS= 1.961

GS= 2.023

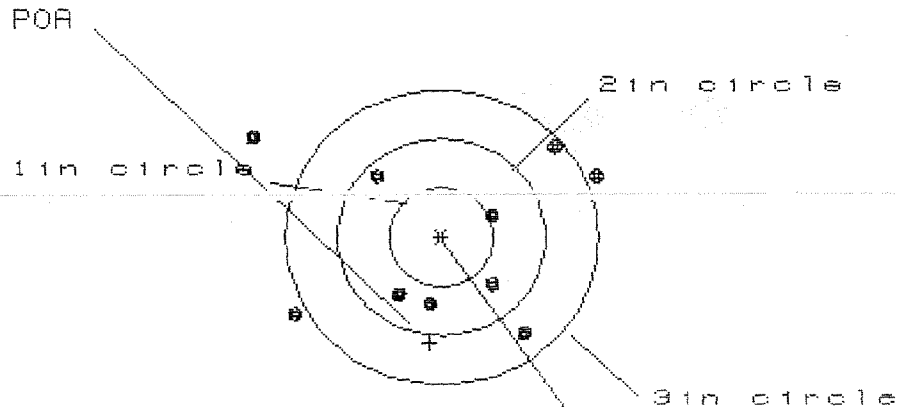
CENTROID *

PATTERN #	:	10	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.557	.472	.434
MINIMUM X	:	-.657	-.595	-.536
MAXIMUM Y	:	1.220	.665	.590
MINIMUM Y	:	-.741	-.606	-.632
CENTROID X	:	-.114	-.176	-.234
CENTROID Y	:	1.157	1.022	1.097
POA TO CENTROID in.	:	1.163	1.037	1.122
MIN RADIUS	:	.150	.165	.226
MEAN RADIUS	:	.617	.520	.494
MAX RADIUS	:	1.341	.893	.797
HORIZONTAL SPREAD	:	1.214	1.067	.971
VERTICAL SPREAD	:	1.961	1.271	1.222
EXTREME SPREAD	:	2.023	1.659	1.341
NUMBER IN ONE INCH CIRCLE =	:	4		
NUMBER IN TWO INCH CIRCLE =	:	9		
NUMBER IN THREE INCH CIRCLE =	:	10		

15 Jan 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C8587723

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1in = 0

2in = 5

3in = 7

HS= 3.249

VS= 2.054

GS= 3.285

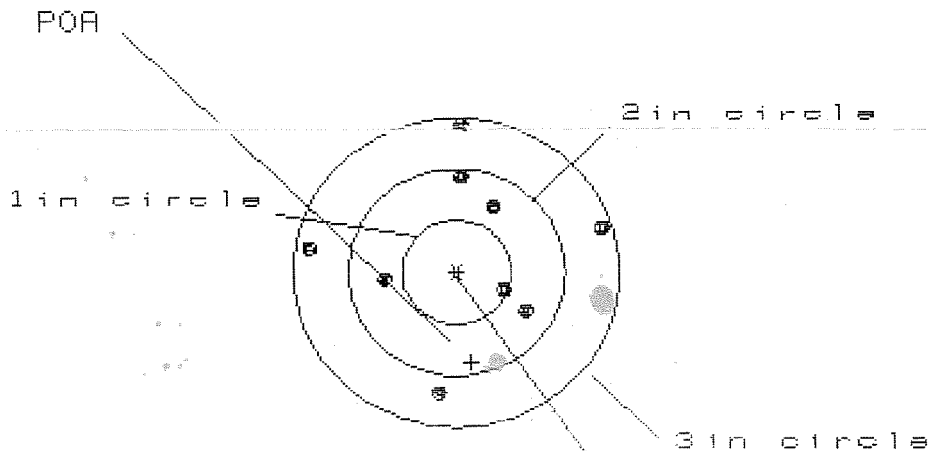
CENTROID #

PATTERN #	:	10	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.465	1.266	1.060
MINIMUM X	:	-1.784	-1.650	-1.007
MAXIMUM Y	:	1.058	1.046	.964
MINIMUM Y	:	-.996	-.878	-.960
CENTROID X	:	.113	.312	.518
CENTROID Y	:	1.079	.961	1.043
POA TO CENTROID in.	:	1.085	1.010	1.165
MIN RADIUS	:	.573	.450	.297
MEAN RADIUS	:	1.145	1.004	.891
MAX RADIUS	:	2.075	1.777	1.226
HORIZONTAL SPREAD	:	3.249	2.916	2.067
VERTICAL SPREAD	:	2.054	1.924	1.924
EXTREME SPREAD	:	3.285	3.217	2.230
NUMBER IN ONE INCH CIRCLE =	:		0	
NUMBER IN TWO INCH CIRCLE =	:		5	
NUMBER IN THREE INCH CIRCLE =	:		7	

15 Jan 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6587723

CENTERFIRE PATTERNS # 5



OF SHOTS - 10

IN CIR

1 in - 1

2 in - 5

3 in - 9

HS - 2.693

VS - 3.268

GS - 3.341

CENTROID #

PATTERN #	:	10	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.339	1.270	.713
MINIMUM X	:	-1.354	-1.423	-1.265
MAXIMUM Y	:	1.404	1.197	1.227
MINIMUM Y	:	-1.864	-1.358	-1.328
CENTROID X	:	-.136	-.067	-.225
CENTROID Y	:	.870	1.077	1.047
POA TO CENTROID in.	:	.881	1.079	1.071
MIN RADIUS	:	.454	.494	.607
MEAN RADIUS	:	1.083	.961	.922
MAX RADIUS	:	1.966	1.424	1.332
HORIZONTAL SPREAD	:	2.693	2.693	1.978
VERTICAL SPREAD	:	3.268	2.555	2.555
EXTREME SPREAD	:	3.341	2.700	2.568
NUMBER IN ONE INCH CIRCLE =	:	1		
NUMBER IN TWO INCH CIRCLE =	:		5	
NUMBER IN THREE INCH CIRCLE =	:		9	

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C 6587723

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	6	6 1/4	6 1/4			8/3/96	WB
	G) Safety Off Force	3	2 1/2	2 3/4			8/3/96	WB
	H) Trigger Pull Test & Retainability							
	I) Firing Pin Indent							
	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	2.35	2.29	2.32	2.31	2.24	9/18/96	WB
	C) Function							
660	Pack							

Remington[®]

MODEL 700TM M24

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

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

SERIAL NO.
C6587723

ORDER NO.
5716

20

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



5716 C6587723

UPC



0 47700 25716 7

OK - IRON SIGHTS
OK - EJECT. HOLE PIN

1.5
M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C 6587723

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	QUALITY AUDIT	10/22/90	Kel
600	Proof		10/22/90	Kel
607	Check Headspace		10/22/90	Kel
610	Dis-assemble Gun		10/22/90	Kel
612	Magnaflux Barrel Action		10/24/90	KR
	Magnaflux Bolt		11	KR
615	Rollmark Caliber		11	JS
617	Drill and Tap Sight Holes		10/25/90	FOB
618	Polish Barrel <i>RB</i>		10/26/90	WB
620	Apply Coatings (Barrel Action)		11-7-90	JA
	Apply Coating (Bolt)		11-7-90	JA
625	Final Assembly A) Clean inside of Bolt Assembly		11/20/90	KS
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		11/20/90	KS
	C) Inspect Ejector Hole for Chamfer		11/20/90	KS
	D) Oil Firing Pin Ass'y		11/20/90	KS
	E) Adjust Trigger Pull to Min Setting and Stake		12/4/90	PM

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4 ³ / ₄	4 ³ / ₄	4 ³ / ₄			12/4/90	W.B.
	G) Safety Off Force	2	2	2			12/4/90	W.B.
	H) Trigger Pull Test & Retainability						12/4/90	JS
	I) Firing Pin Indent	.022	.022	.022			12/4/90	W.B.
	J) Assemble Stock						12/4/90	KA
	K) Assemble Swivel Studs						12-5-90	JS
	L) Attach Front and Rear Sight Assemblies						12/4/90	KA
	M) Iron Sight Alignment						12/4/90	KA
	N) Detach Front & Rear Sights & place in numbered container						12/4/90	KA
	O) Attach Scope to Rifle						12/4/90	KA
	P) Detach & Attach Scope 20 Times						12/4/90	KA
640	Gallery Target & Test						12-5-90	AC
	A) Time						12-5-90	AC
	B) Malfunctions						12-5-90	AC
	C) Pierced Primers						12-5-90	AC
	D) Optical Clarity of Scope						12-5-90	AC
645	Inspect for Live Ammo						12-5-90	AC
655	Final Inspection						12-5-90	JS
	A) Headspace						12-5-90	JS
	B) Trigger Pull	2.30	2.29	2.25	2.26	2.27	12-6-90	JS
	C) Function						12-6-90	JS
660	Pack						12/14/90	VF

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6587723

DATE 12/4/80

TESTER J.P.

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.40	2.48	2.35	2.30	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.39	2.49	2.32	2.29	
PULL #3	2.41	2.48	2.31	2.25	
PULL #4	2.42	2.27	2.35	2.20	
PULL #5	2.45	2.31	2.37	2.29	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.30	3.47		
PULL #2	3.43	3.42		
PULL #3	3.50	3.42		
PULL #4	3.24	3.49		
PULL #5	3.49	3.46		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.18	4.41		4.15
PULL #2	4.18	4.28		4.40
PULL #3	4.15	4.41		4.44
PULL #4	4.24	4.11		4.45
PULL #5	4.28	4.22		4.18
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6587723
5 Dec 1990

CENTROIDAL DISTANCES

0 TO	1	.341321
1 TO	2	.742308
1 TO	3	.404317
1 TO	4	.519042
1 TO	5	.297108

2412 (----POA
1

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0006
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0012
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0312050
THE AMP FOR THIS RIFLE IS: 1.003

5 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587723

CENTERFIRE PATTERNS # 1

POA

1 in circle

2 in circle

3 in circle

OF SHOTS- 10

IN CIR

1 in = 0

2 in = 4

3 in = 8

HS= 2.179

VS= 2.823

GS= 2.857

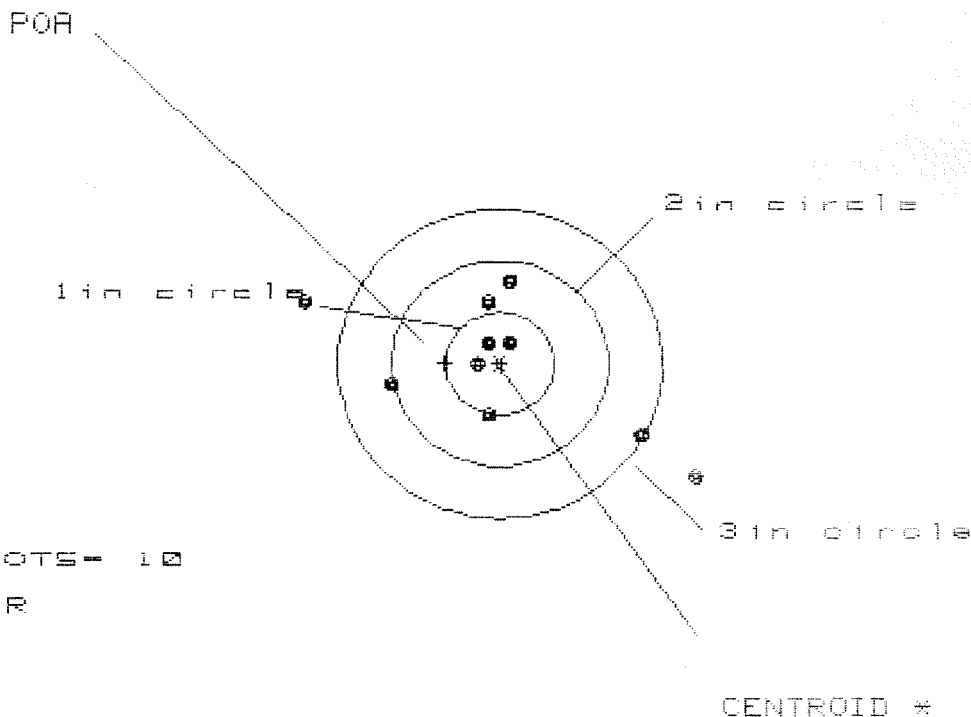
CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.023	1.063	1.159
MINIMUM X	-1.156	-1.116	-1.020
MAXIMUM Y	1.266	1.093	.984
MINIMUM Y	-1.557	-1.506	-.697
CENTROID X	-.180	-.220	-.316
CENTROID Y	-.290	-.117	.072
POA TO CENTROID in.	.341	.249	.324
MIN RADIUS	.504	.490	.506
MEAN RADIUS	1.079	.997	.877
MAX RADIUS	1.598	1.690	1.198
HORIZONTAL SPREAD	2.179	2.179	2.179
VERTICAL SPREAD	2.823	2.599	1.601
EXTREME SPREAD	2.857	2.722	2.179
NUMBER IN ONE INCH CIRCLE =	0		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	8		

5 Dec 1938

FILE:/PATTERNING/CENTERFIRE_PATT/08587723

CENTERFIRE PATTERNS # 2



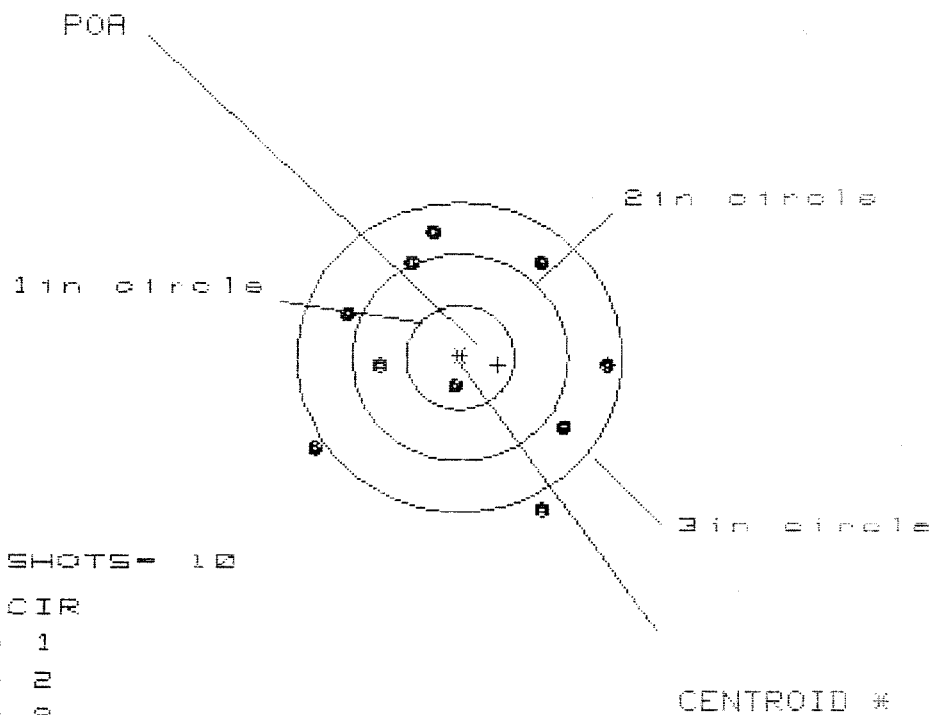
OF SHOTS - 10
 # IN CIR
 1in = 4
 2in = 6
 3in = 8
 HS = 3.557
 VS = 1.940
 GS = 3.971

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.785	1.463	1.266
MINIMUM X	:	-1.772	-1.573	-1.014
MAXIMUM Y	:	.796	.669	.731
MINIMUM Y	:	-1.144	-.845	-.783
CENTROID X	:	.505	.306	.503
CENTROID Y	:	-.004	.123	.061
POA TO CENTROID in.	:	.505	.330	.507
MIN RADIUS	:	.168	.085	.159
MEAN RADIUS	:	.905	.734	.614
MAX RADIUS	:	2.120	1.689	1.489
HORIZONTAL SPREAD	:	3.557	3.036	2.280
VERTICAL SPREAD	:	1.940	1.514	1.514
EXTREME SPREAD	:	3.971	3.318	2.342
NUMBER IN ONE INCH CIRCLE	=		4	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		8	

5 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/08587723

CENTERFIRE PATTERNS # 3



OF SHOTS - 10

IN CIR

1in = 1

2in = 2

3in = 8

HS = 2.620

VS = 2.737

GS = 2.898

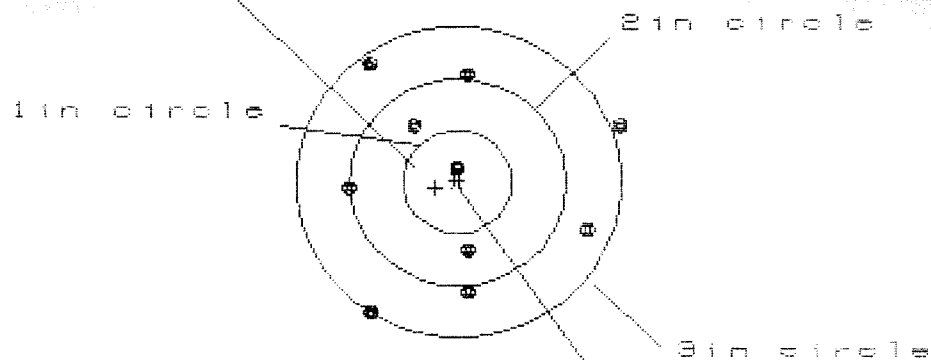
PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.326	1.406	1.254
MINIMUM X	:	-1.294	-1.214	-1.073
MAXIMUM Y	:	1.231	1.064	.932
MINIMUM Y	:	-1.506	-1.051	-1.000
CENTROID X	:	-.356	-.436	-.284
CENTROID Y	:	.074	.241	.372
POA TO CENTROID in.	:	.364	.498	.468
MIN RADIUS	:	.295	.459	.601
MEAN RADIUS	:	1.144	1.070	1.003
MAX RADIUS	:	1.667	1.606	1.360
HORIZONTAL SPREAD	:	2.620	2.620	2.327
VERTICAL SPREAD	:	2.737	2.115	1.933
EXTREME SPREAD	:	2.898	2.756	2.379
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		2	
NUMBER IN THREE INCH CIRCLE	=		8	

5 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8587723

CENTERFIRE PATTERNS # 4

POA



OF SHOTS- 10

IN CIR

1in = 1

2in = 3

3in = 9

HS= 2.584

VS= 2.394

GS= 2.901

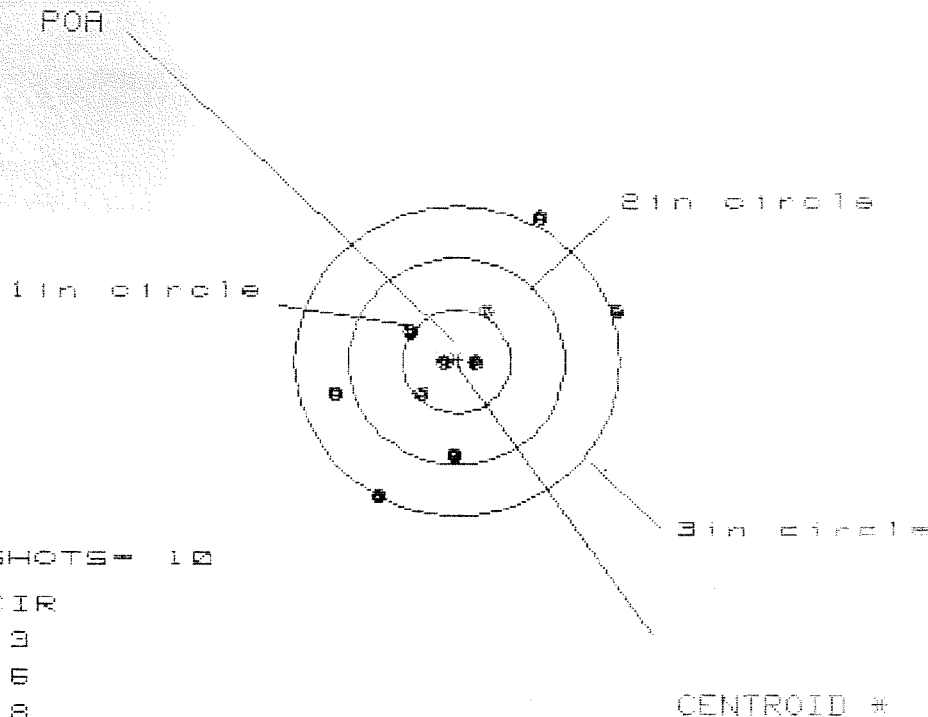
CENTROID #

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.535	1.342	1.268
MINIMUM X	:	-1.049	-.878	-.952
MAXIMUM Y	:	1.171	1.233	1.087
MINIMUM Y	:	-1.223	-1.161	-1.165
CENTROID X	:	.206	.035	.109
CENTROID Y	:	.057	-.005	.141
POA TO CENTROID in.	:	.214	.036	.178
MIN RADIUS	:	.134	.278	.136
MEAN RADIUS	:	1.037	.967	.903
MAX RADIUS	:	1.631	1.391	1.360
HORIZONTAL SPREAD	:	2.584	2.220	2.220
VERTICAL SPREAD	:	2.394	2.394	2.252
EXTREME SPREAD	:	2.901	2.538	2.538
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		9	

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CENTERFIRE PATTERNS # 5



OF SHOTS= 10

IN CIR

1 in = 3

2 in = 6

3 in = 8

HS= 2.643

VS= 2.666

GS= 3.075

PATTERN #	5		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.508	1.598	.513
MINIMUM X	-1.135	-1.045	-.846
MAXIMUM Y	1.402	.688	.773
MINIMUM Y	-1.264	-1.108	-1.023
CENTROID X	-.172	-.262	-.461
CENTROID Y	.007	-.149	-.234
POA TO CENTROID in.	.172	.301	.517
MIN RADIUS	.110	.123	.065
MEAN RADIUS	.850	.756	.625
MAX RADIUS	1.616	1.735	1.114
HORIZONTAL SPREAD	2.643	2.643	1.359
VERTICAL SPREAD	2.666	1.796	1.796
EXTREME SPREAD	3.075	2.861	2.033
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		6	
NUMBER IN THREE INCH CIRCLE =		8	