

06587678

MODEL 766TM M24

Model **SMS** TM

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

Handwritten mark

Remington Test Lab, Ilion, N.Y.

Centroidal distance calculations for Rifle # c6587678
8 Sep 2000

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .017
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .1392
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .140234

THE AMR FOR THIS RIFLE IS: 1.055

CENTROIDAL DISTANCES

Ø TO	1	.2049
1 TO	2	.359001
1 TO	3	.116211
1 TO	4	.24001
1 TO	5	.277541

4
13.52 <----POA

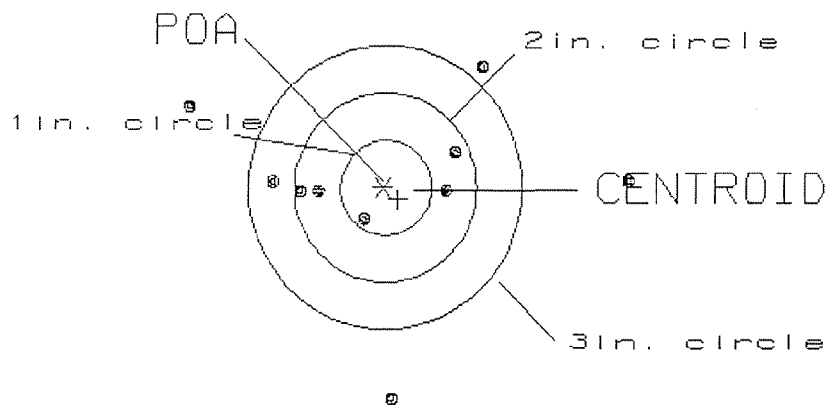
PATTERN #: 1

POA TO CENTROID: .205
 MIN RADIUS : .409
 MEAN RADIUS : 1.373
 MAX RADIUS : 2.671
 CENTROID X : -.160
 CENTROID Y : .128

7 Sep 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6587678

CENTERFIRE PATTERN # 1



OF SHOTS= 10

IN CIRCLE

HS= 4.78
 VS= 3.50
 GS= 4.85

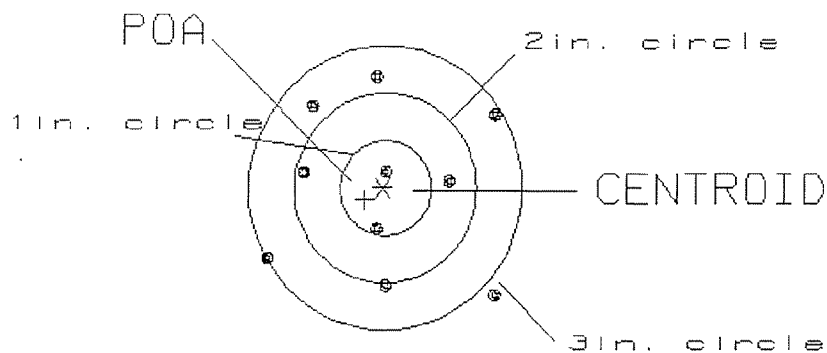
1
 5
 6

PATTERN #: 2
 POA TO CENTROID: .236
 MIN RADIUS : .131
 MEAN RADIUS : 1.035
 MAX RADIUS : 1.666
 CENTROID X : .199
 CENTROID Y : .127

7 Sep 2000

FILE://Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6587678

CENTERFIRE PATTERN # 2



OF SHOTS= 10

IN CIRCLE

HS= 2.53

2

VS= 2.31

4

GS= 2.94

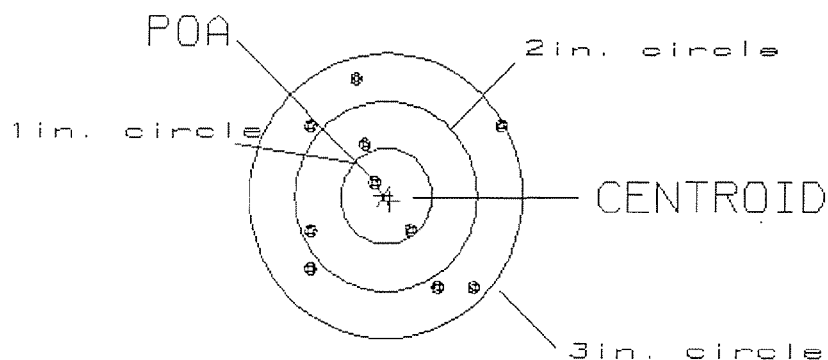
9

PATTERN #: 3
 POA TO CENTROID: .089
 MIN RADIUS : .224
 MEAN RADIUS : .960
 MAX RADIUS : 1.494
 CENTROID X : -.068
 CENTROID Y : .057

7 Sep 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6587678

CENTERFIRE PATTERN # 3



OF SHOTS= 10

IN CIRCLE

HS= 2.08

2

VS= 2.26

4

GS= 2.64

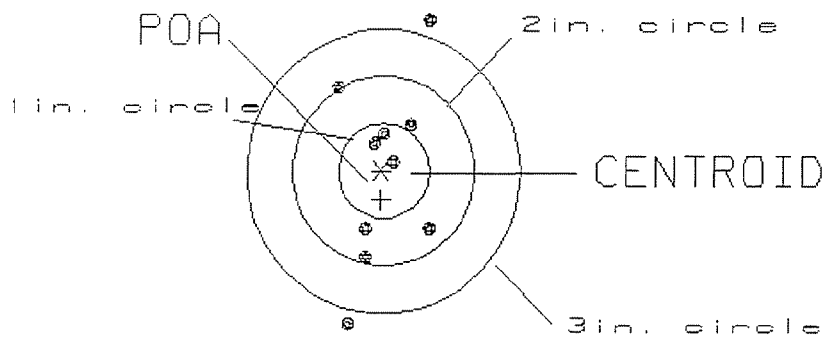
10

PATTERN #: 4
 POA TO CENTROID: .306
 MIN RADIUS : .118
 MEAN RADIUS : .806
 MAX RADIUS : 1.674
 CENTROID X : .001
 CENTROID Y : .306

7 Sep 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6587678

CENTERFIRE PATTERN # 4



OF SHOTS= 10

IN CIRCLE

HS= .99
 VS= 3.16
 GS= 3.30

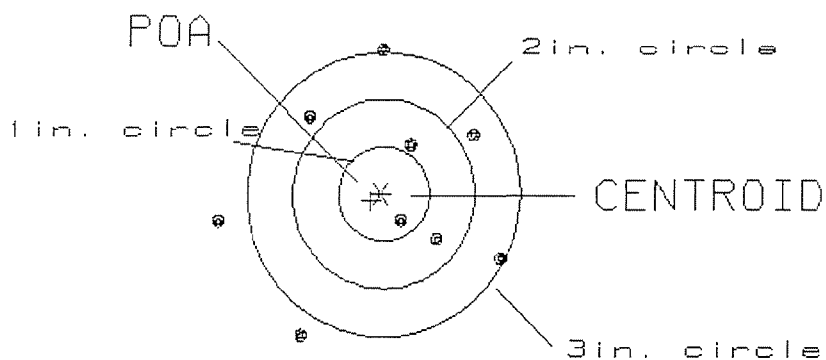
3
 6
 8

PATTERN #: 5
 POA TO CENTROID: .137
 MIN RADIUS : .340
 MEAN RADIUS : 1.102
 MAX RADIUS : 1.832
 CENTROID X : .113
 CENTROID Y : .078

7 Sep 2000

FILE://Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6587678

CENTERFIRE PATTERN # 5



OF SHOTS= 10

IN CIRCLE

HS= 3.13

2

VS= 3.00

4

GS= 3.15

7

Final Inspection

S.N. C6587628

DATE REC'D: 5-12-00

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

MISC.

☐ DD-250☐ BAR CODE☐ PACKAGING

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:

**CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON**

GFM

CONTRACT # DAAA21-87-C-0086

Repair

GUN SERIAL # C6587678

OP. #	OP. NAME	READINGS	DATE	INIT
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		2/16/93	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		2/16/93	RW
	C) Inspect Ejector Hole for Chamfer		2/16/93	RW
	D) Oil Firing Pin Ass'y		2/16/93	RW
	E) Adjust Trigger Pull to Min Setting and Stake		2/16/93	RW

op. #	BARBER - M24 0025094 OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4	4	4			2/16/93	RW
	G) Safety Off Force	2.5	2.5	2			2/16/93	RW
	H) Trigger Pull Test & Retainability						2/16/93	RW
	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						2/16/93	RW
	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						3/1/93	RW
655	Final Inspection							
	A) Headspace						3/1/93	RW
	B) Trigger Pull	2.38	2.36	2.28	2.31	2.21	3/1/93	RW
	C) Function						3/1/93	RW
660	Pack							

New Trigger Assy.

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6587678

DATE 2/16/93

TESTER RW

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#	COMMENTS
PULL #1	2.50	2.42	2.63	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.47	2.53	2.62	
PULL #3	2.38	2.59	2.58	
PULL #4	2.38	2.58	2.59	
PULL #5	2.47	2.48	2.60	
TOTAL	12.20	12.60	13.02	
AVG.	2.44	2.52	2.60	

	3.00# INITIAL	3.00# AFTER 20 CYCLES	COMMENTS
PULL #1	3.13	3.23	
PULL #2	3.10	3.04	
PULL #3	3.05	3.14	
PULL #4	3.06	3.15	
PULL #5	3.14	3.14	
TOTAL	15.48	15.70	
AVG.	3.10	3.14	

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.03	4.32		4.34
PULL #2	4.24	4.21		4.35
PULL #3	4.18	4.16		4.36
PULL #4	4.17	4.12		4.32
PULL #5	4.17	4.05		4.29
TOTAL	20.79	20.80		21.66
AVG.	4.16	4.16		4.33

BARBER-T M24,0025096

ORDER
R 93-02473

INITIAL	CUSTOMER ORDER NO.		WOG 21 OF 30 W/10X SCOPE & DEPLOYMENT KIT			
FPS			M24			
DATE RECEIVED	DATE OPENED	DATE CODE	SERIAL NUMBER	NEW SERIAL NUMBER	MODEL AND GRADE	
01/25/93	01/25/93	EK 10-90	C6587678		700 7-62	NATO
ACCESSORIES	W/STUDS		W/SWIVELS	SOFT CASE	SCOPE BASE	

SHIP TO:

MCHALE, EDWARD J CPT,SF
HSC 3RD BN 3RD SFG (A)
FT BRAGG NC
29307

L

ACCOUNT NUMBER	ACCOUNT NUMBER N/C	WRITE ☐	CLEAN/TEST	PROM. DATE	ESTIMATED	VIA
						UPS

TOTAL

CUSTOMER CONCERN		AMMO	FUNCTION	FINISH	ACCURACY	FIT	INSPECT
CYCLE	A		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

[illegible]

RD6925 REV. 1/82

BARBER - M24 0025098 **M2400025135**

M2400025135

Remington[®]

MODEL 700™ H24

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

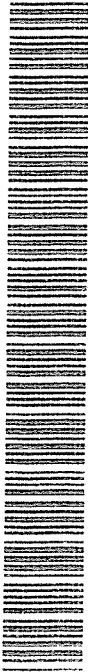
DUPONT
REG. U.S. PAT. & TM. OFF.

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

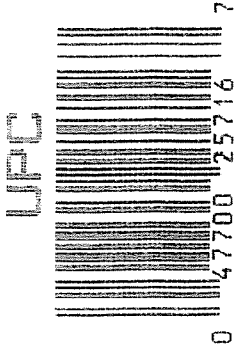
SERIAL NO.
C6587678

ORDER NO.
5716

01



5716 C6587678



UPC

0 47700 25716 7

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C 6587678

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		10/18/90	LS
600	Proof		10/18/90	LS
607	Check Headspace		10/18/90	LS
610	Dis-assemble Gun		10/18/90	LS
612	Magnaflux Barrel Action		10/22/90	KP
	Magnaflux Bolt		10/22/90	KP
615	Rollmark Caliber		10/22/90	LS
617	Drill and Tap Sight Holes		10/23/90	LB
618	Polish Barrel	AB	10/24/90	WB
620	Apply Coatings (Barrel Action)		11-7-90	LS
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		11/7/90	KS
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		11/7/90	KS
	C) Inspect Ejector Hole for Chamfer		11/7/90	KS
	D) Oil Firing Pin Ass'y		11/7/90	KS
	E) Adjust Trigger Pull to Min Setting and Stake		11/28/90	JS

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	6	6	6			11/28/90	WB
	G) Safety Off Force	2 1/2	2 1/2	2 1/2			11/28/90	WB
	H) Trigger Pull Test & Retainability						11/28/90	JA
	I) Firing Pin Indent	.0205	.020	.0202			11/28/90	WB
	J) Assemble Stock					12/1/90	11/28/90	KS
	K) Assemble Swivel Studs						12/4/90	JS
	L) Attach Front and Rear Sight Assemblies					12/1/90	11/28/90	KS
	M) Iron Sight Alignment						12/1/90	KS
	N) Detach Front & Rear Sights & place in numbered container						12/1/90	KS
	O) Attach Scope to Rifle						12/1/90	KS
	P) Detach & Attach Scope 20 Times						12/1/90	KS
640	Gallery Target & Test						12/1-90	KJ
	A) Time						12/1	KJ
	B) Malfunctions						12/1	KJ
	C) Pierced Primers						12/1	KJ
	D) Optical Clarity of Scope						12/1	KJ
645	Inspect for Live Ammo						12/1/90	KJ
655	Final Inspection							
	A) Headspace						12/4-90	JS
	B) Trigger Pull	2.30	2.39	2.30	2.31	2.30	12/4-90	JS
	C) Function						12/4-90	JS
660	Pack						12/1/90	W

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C 6587678

DATE 11-28-98

TESTER JR

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.48	2.33	2.41	2.30	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.50	2.38	2.41	2.39	
PULL #3	2.39	2.42	2.42	2.30	
PULL #4	2.48	2.35	2.33	2.31	
PULL #5	2.44	2.43	2.44	2.30	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.36	3.31		
PULL #2	3.25	3.44		
PULL #3	3.44	3.48		
PULL #4	3.13	3.33		
PULL #5	3.41	3.40		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.25	4.35		4.31
PULL #2	4.37	4.33		4.13
PULL #3	4.16	4.37		4.15
PULL #4	4.35	4.13		4.27
PULL #5	4.15	4.34		4.33
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6587678
4 Dec 1990

CENTROIDAL DISTANCES

0	TO	1	.137208
1	TO	2	.414541
1	TO	3	.181687
1	TO	4	.153834
1	TO	5	.13222

42 <----POA

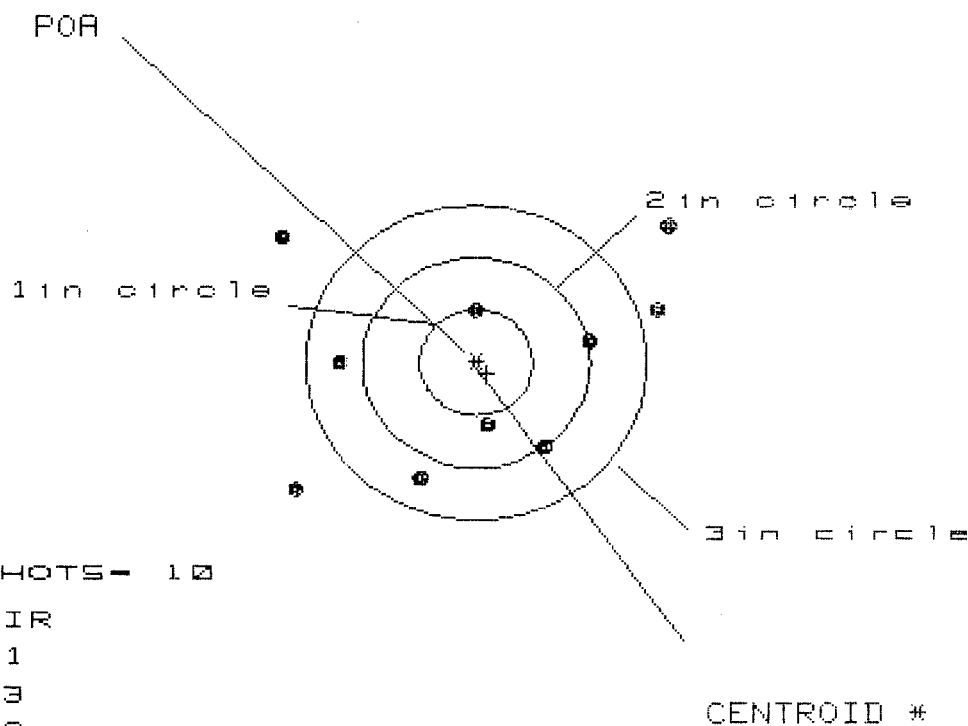
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.009
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0332
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0343903

THE AMP FOR THIS RIFLE IS: 1.16

4 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587678

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1in - 1

2in - 3

3in = 6

HS= 3.380

VS= 2.498

GS= 4.168

CENTROID *

PATTERN #	:	1	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.718	1.783	1.599
MINIMUM X	:	-1.662	-1.472	-1.612
MAXIMUM Y	:	1.320	1.313	.783
MINIMUM Y	:	-1.178	-1.032	-.868
CENTROID X	:	-.095	-.285	-.101
CENTROID Y	:	.099	-.047	-.211
POA TO CENTROID in.	:	.137	.289	.234
MIN RADIUS	:	.473	.521	.303
MEAN RADIUS	:	1.335	1.228	1.094
MAX RADIUS	:	2.166	1.972	1.830
HORIZONTAL SPREAD	:	3.380	3.255	3.211
VERTICAL SPREAD	:	2.498	2.345	1.651
EXTREME SPREAD	:	4.168	3.608	3.608
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		6	

4 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587678

CENTERFIRE PATTERNS

2

POA

1 in circle

2 in circle

3 in circle

OF SHOTS - 10

IN CIR

1 in - 1

2 in - 3

3 in - 8

HS - 2.595

VS - 3.063

GS - 3.221

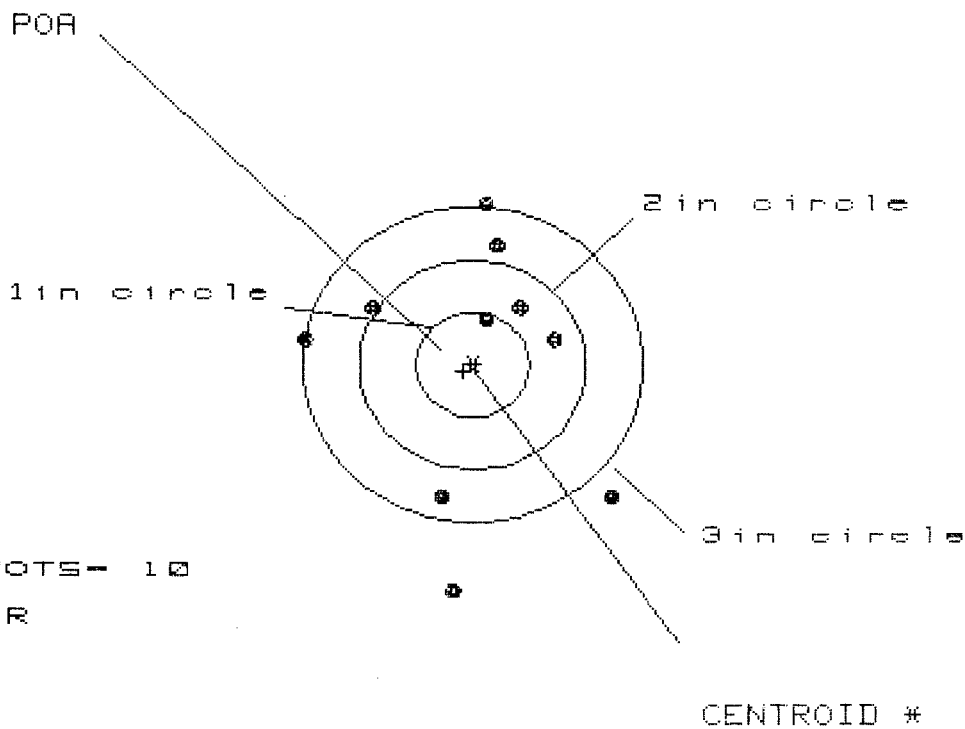
CENTROID #

PATTERN #	:	2
SHOTS (BEST OF)	:	10
MAXIMUM X	:	.953
MINIMUM X	:	-1.642
MAXIMUM Y	:	2.067
MINIMUM Y	:	-.996
CENTROID X	:	.145
CENTROID Y	:	-.239
POA TO CENTROID in.	:	.280
MIN RADIUS	:	.401
MEAN RADIUS	:	1.149
MAX RADIUS	:	2.081
HORIZONTAL SPREAD	:	2.595
VERTICAL SPREAD	:	3.063
EXTREME SPREAD	:	3.221
NUMBER IN ONE INCH CIRCLE	=	1
NUMBER IN TWO INCH CIRCLE	=	3
NUMBER IN THREE INCH CIRCLE	=	8

4 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587678

CENTERFIRE PATTERNS # 3



OF SHOTS - 10

IN CIR

1in = 1

2in = 3

3in = 6

HS = 2.686

VS = 3.713

GS = 3.730

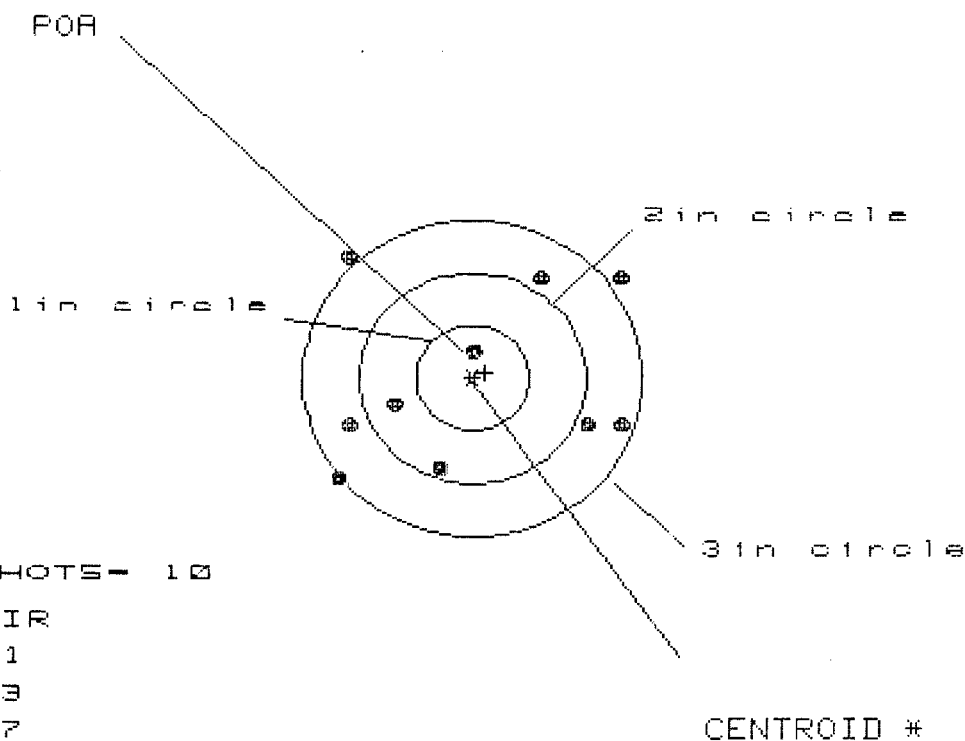
CENTROID #

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.176	1.153	.798
MINIMUM X	:	-1.510	-1.533	-1.389
MAXIMUM Y	:	1.518	1.274	1.093
MINIMUM Y	:	-2.195	-1.543	-1.724
CENTROID X	:	.082	.105	-.039
CENTROID Y	:	.058	.302	.483
POA TO CENTROID in.	:	.100	.319	.485
MIN RADIUS	:	.497	.266	.288
MEAN RADIUS	:	1.244	1.068	.948
MAX RADIUS	:	2.205	1.855	1.730
HORIZONTAL SPREAD	:	2.686	2.686	2.187
VERTICAL SPREAD	:	3.713	2.817	2.817
EXTREME SPREAD	:	3.730	3.065	2.846
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		6	

4 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587678

CENTERFIRE PATTERNS # 4



OF SHOTS - 10

IN CIR

1 in - 1

2 in - 3

3 in = 7

HS= 2.519

VS= 2.139

GS= 3.157

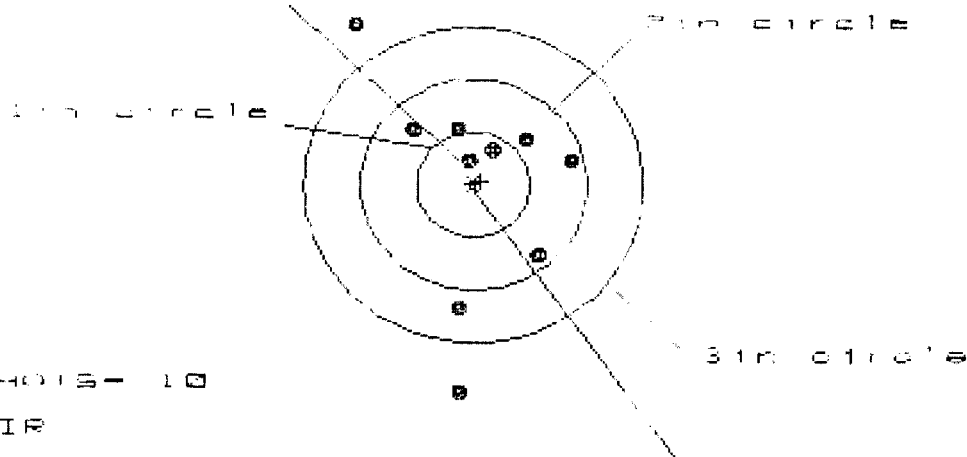
PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.309	1.442	1.328
MINIMUM X	:	-1.210	-1.064	-1.178
MAXIMUM Y	:	1.162	1.265	1.244
MINIMUM Y	:	-.977	-.874	-.716
CENTROID X	:	-.111	-.257	-.143
CENTROID Y	:	-.054	-.157	-.315
POA TO CENTROID in.	:	.124	.301	.346
MIN RADIUS	:	.223	.377	.484
MEAN RADIUS	:	1.138	1.072	1.005
MAX RADIUS	:	1.604	1.561	1.419
HORIZONTAL SPREAD	:	2.519	2.506	2.506
VERTICAL SPREAD	:	2.139	2.139	1.960
EXTREME SPREAD	:	3.157	2.847	2.703
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		7	

4 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT 08582673

CENTERFIRE PATTERNS # 5

PCR



+ OF SHOTS - 10

IN CIR

1in = 10

2in = 7

3in = 8

MS = 1.211

VS = 3.508

ES = 3.631

CENTROID *

PATTERN #	5
SHOTS (EPT OF)	10
MAXIMUM X	.863
MINIMUM X	-1.048
MAXIMUM Y	1.544
MINIMUM Y	-1.964
CENTROID X	-.066
CENTROID Y	-.030
PCR TO CENTROID in.	.073
MIN RADIUS	.253
MEAN RADIUS	.933
MAX RADIUS	1.967
HORIZONTAL SPREAD	1.911
VERTICAL SPREAD	3.508
EXTREME SPREAD	3.631
NUMBER IN ONE INCH CIRCLE	10
NUMBER IN TWO INCH CIRCLE	7
NUMBER IN THREE INCH CIRCLE	8

