

C6611457

MODEL 700TM M24

Model **SMS** TM

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

RE00093730

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6611457.__0
FILE DATE AND TIME: 03/18/2005 09:00

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.042
The Average Y Centroid of the Five Target Set:	-0.107
The Average Point of Impact of the Five Target Set:	0.115
The Average Mean Radius of the Five Target Set:	0.775
The Distance from POA to Centroid Target #1:	0.208
The Distance from Centroid Target #2 to Centroid Target #1:	0.131
The Distance from Centroid Target #3 to Centroid Target #1:	0.182
The Distance from Centroid Target #4 to Centroid Target #1:	0.155
The Distance from Centroid Target #5 to Centroid Target #1:	0.103

SERIAL NUMBER: C6611457. 0

TARGET NUMBER: 1

FILE DATE: 03/18/2005

FILE TIME: 09:00

X CENTROID: -0.008

Y CENTROID: -0.208

POA TO CENTROID: 0.208

HORZ SPREAD: 1.487

VERT SPREAD: 2.684

GROUP SPREAD: 2.741

MIN RADIUS: 0.366

MAX RADIUS: 1.716

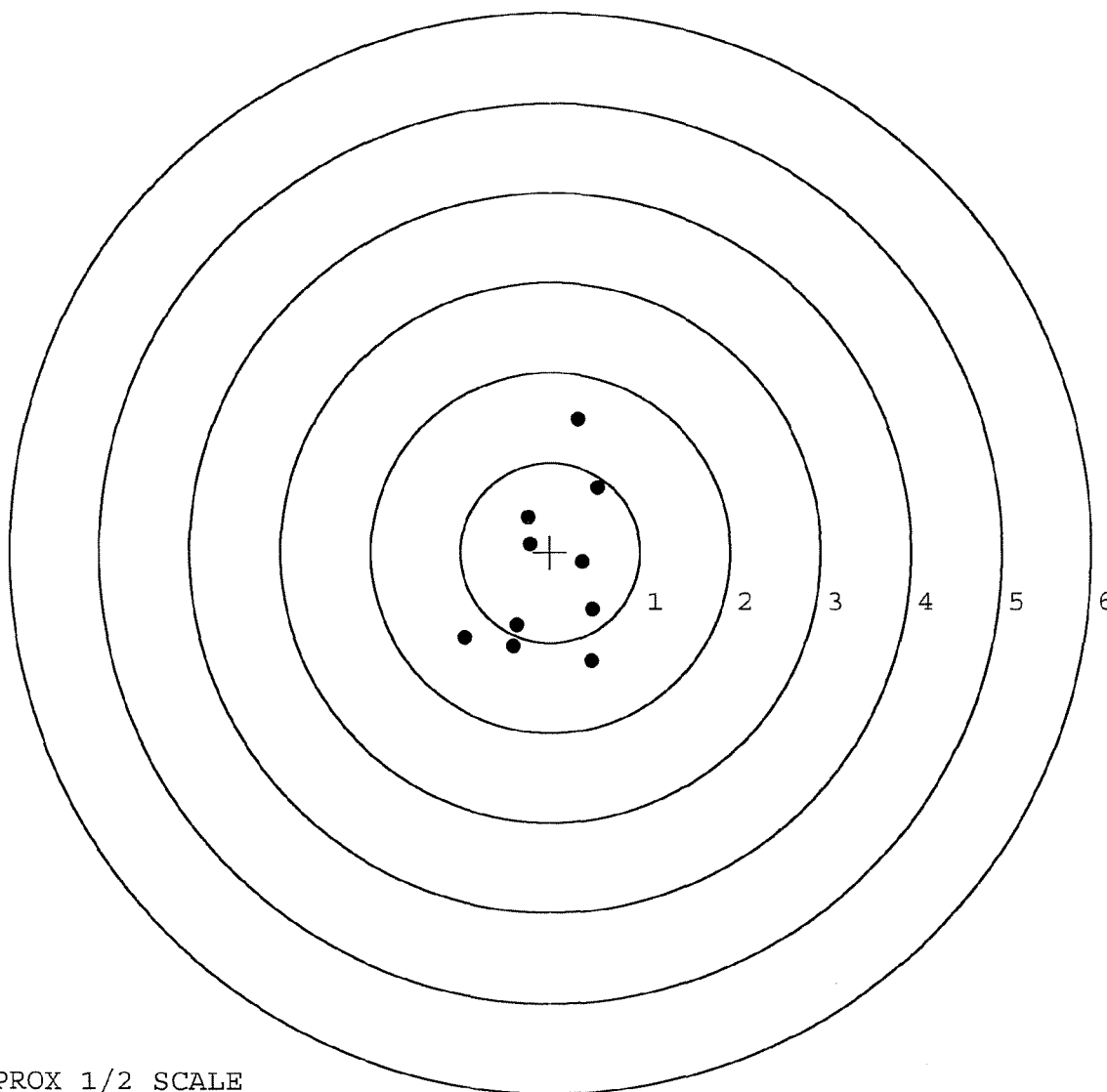
MEAN RADIUS: 0.878

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 9

POINT#	X	Y
1:	0.464	-1.206
2:	0.471	-0.637
3:	0.364	-0.111
4:	-0.412	-1.045
5:	-0.377	-0.810
6:	-0.958	-0.952
7:	-0.221	0.090
8:	-0.253	0.389
9:	0.529	0.723
10:	0.311	1.478



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611457. __0

TARGET NUMBER: 2

FILE DATE: 03/18/2005

FILE TIME: 09:00

X CENTROID: -0.057

Y CENTROID: -0.086

POA TO CENTROID: 0.103

HORZ SPREAD: 1.579

VERT SPREAD: 1.654

GROUP SPREAD: 2.002

MIN RADIUS: 0.119

MAX RADIUS: 1.078

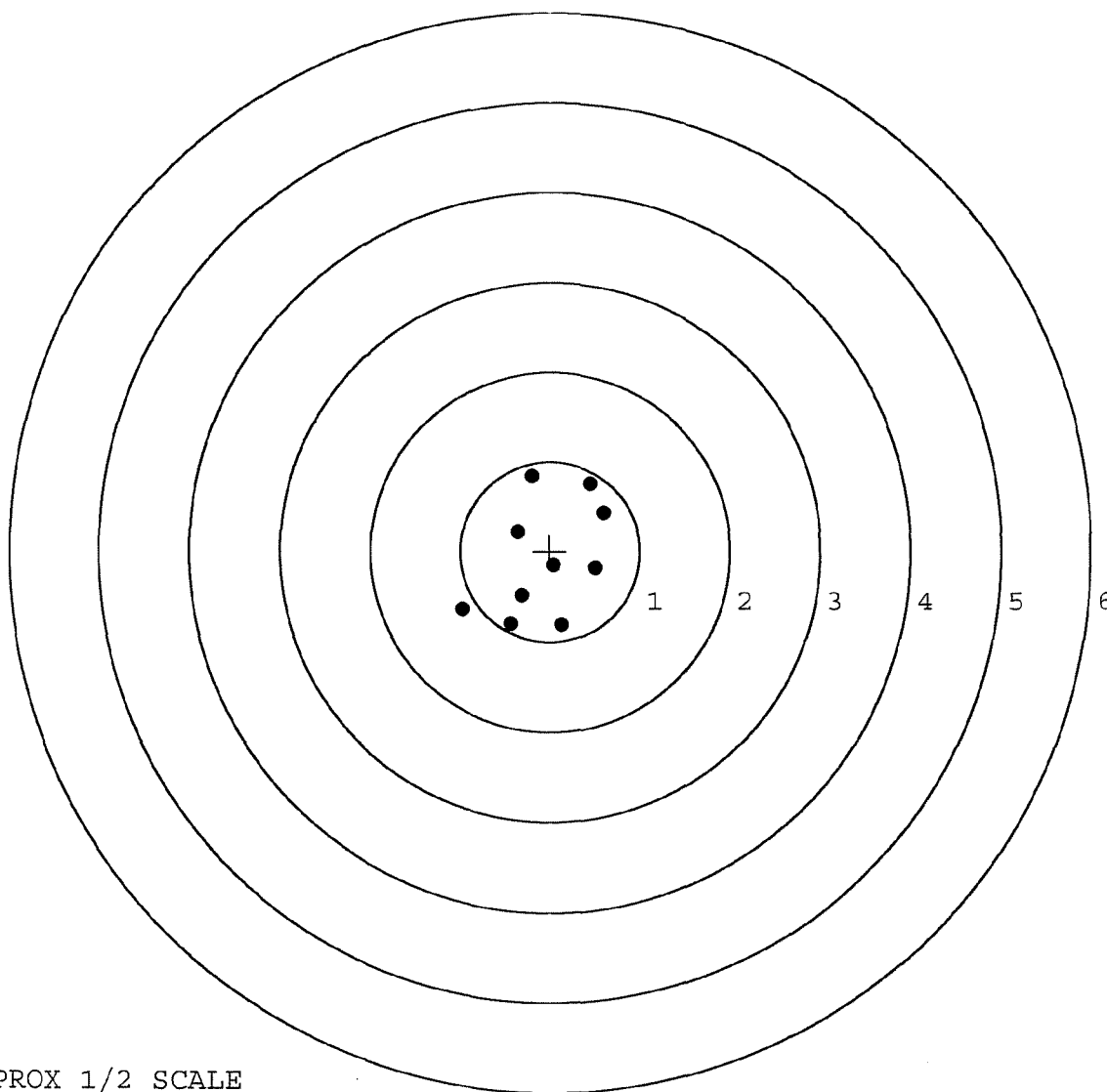
MEAN RADIUS: 0.700

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.509	-0.182
2:	0.599	0.428
3:	0.453	0.756
4:	-0.205	0.834
5:	-0.357	0.214
6:	0.040	-0.156
7:	0.133	-0.820
8:	-0.446	-0.803
9:	-0.315	-0.490
10:	-0.980	-0.642



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611457. __0

TARGET NUMBER: 3

FILE DATE: 03/18/2005

FILE TIME: 09:00

X CENTROID: 0.024

Y CENTROID: -0.029

POA TO CENTROID: 0.037

HORZ SPREAD: 2.642

VERT SPREAD: 1.251

GROUP SPREAD: 2.644

MIN RADIUS: 0.127

MAX RADIUS: 1.527

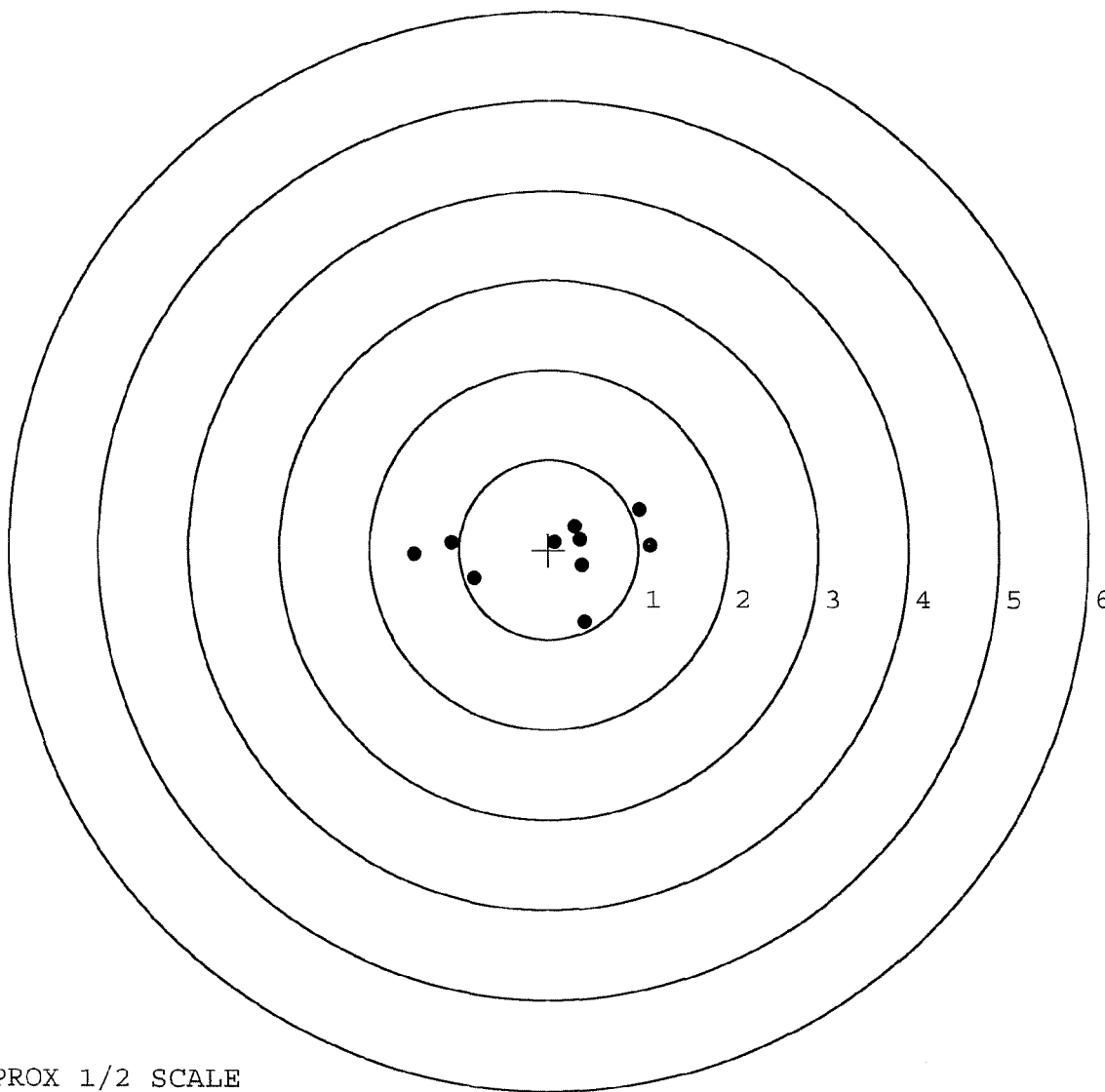
MEAN RADIUS: 0.788

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 9

POINT#	X	Y
1:	0.401	-0.802
2:	1.139	0.048
3:	1.011	0.449
4:	0.378	-0.168
5:	0.298	0.262
6:	0.069	0.090
7:	-0.827	-0.317
8:	-1.084	0.082
9:	-1.503	-0.050
10:	0.355	0.118



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611457. 0

TARGET NUMBER: 4

FILE DATE: 03/18/2005

FILE TIME: 09:00

POINT#	X	Y
1:	0.988	-0.321
2:	0.819	0.067
3:	0.391	-0.206
4:	0.377	0.168
5:	-0.176	-0.653
6:	-0.277	-0.246
7:	-0.908	-0.708
8:	-0.414	0.221
9:	-0.837	0.340
10:	-0.836	0.590

X CENTROID: -0.087

Y CENTROID: -0.075

POA TO CENTROID: 0.115

HORZ SPREAD: 1.896

VERT SPREAD: 1.298

GROUP SPREAD: 2.039

MIN RADIUS: 0.256

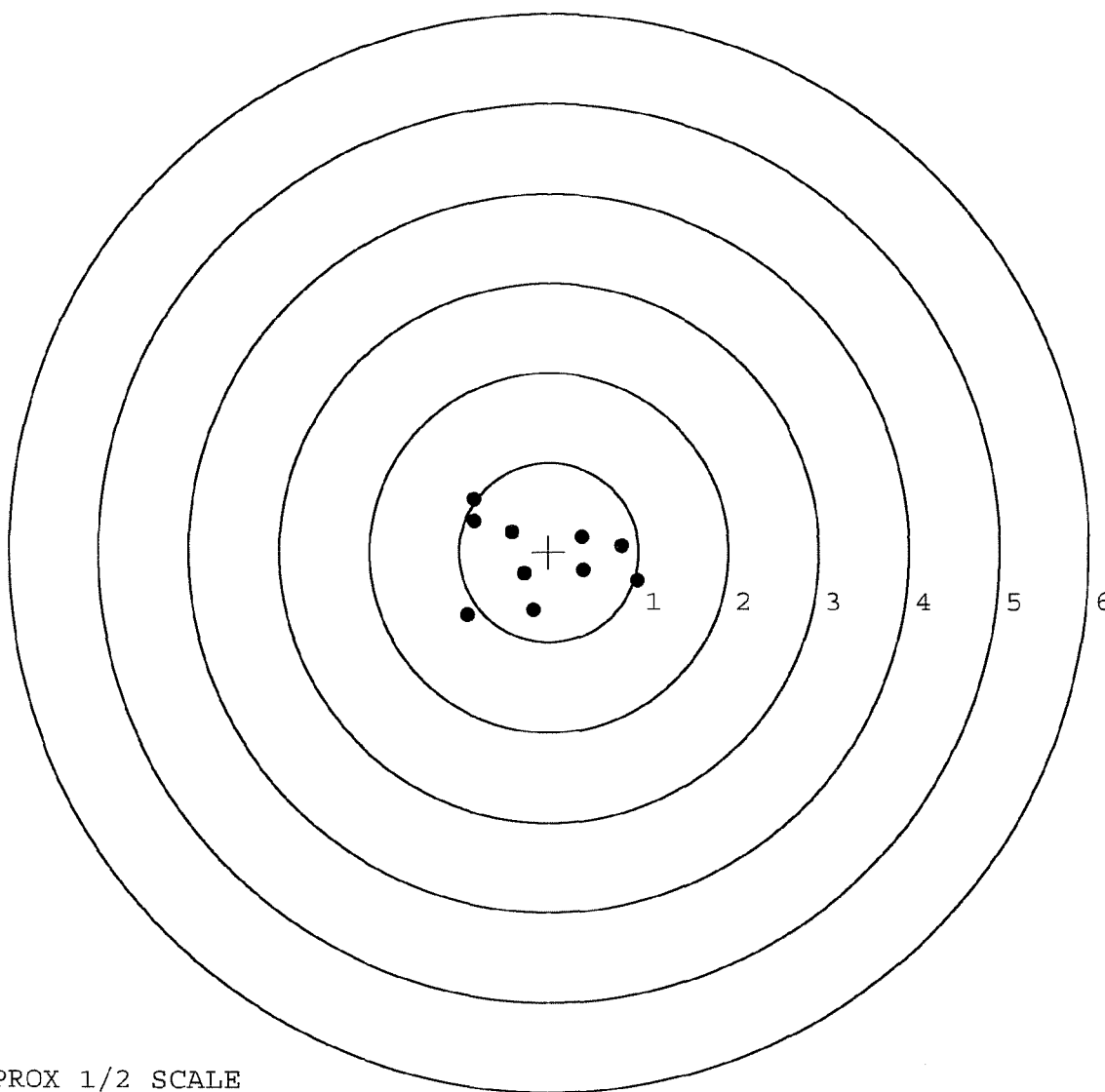
MAX RADIUS: 1.103

MEAN RADIUS: 0.722

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611457. __0

TARGET NUMBER: 5

FILE DATE: 03/18/2005

FILE TIME: 09:00

X CENTROID: -0.081

Y CENTROID: -0.135

POA TO CENTROID: 0.158

HORZ SPREAD: 2.213

VERT SPREAD: 1.797

GROUP SPREAD: 2.323

MIN RADIUS: 0.310

MAX RADIUS: 1.517

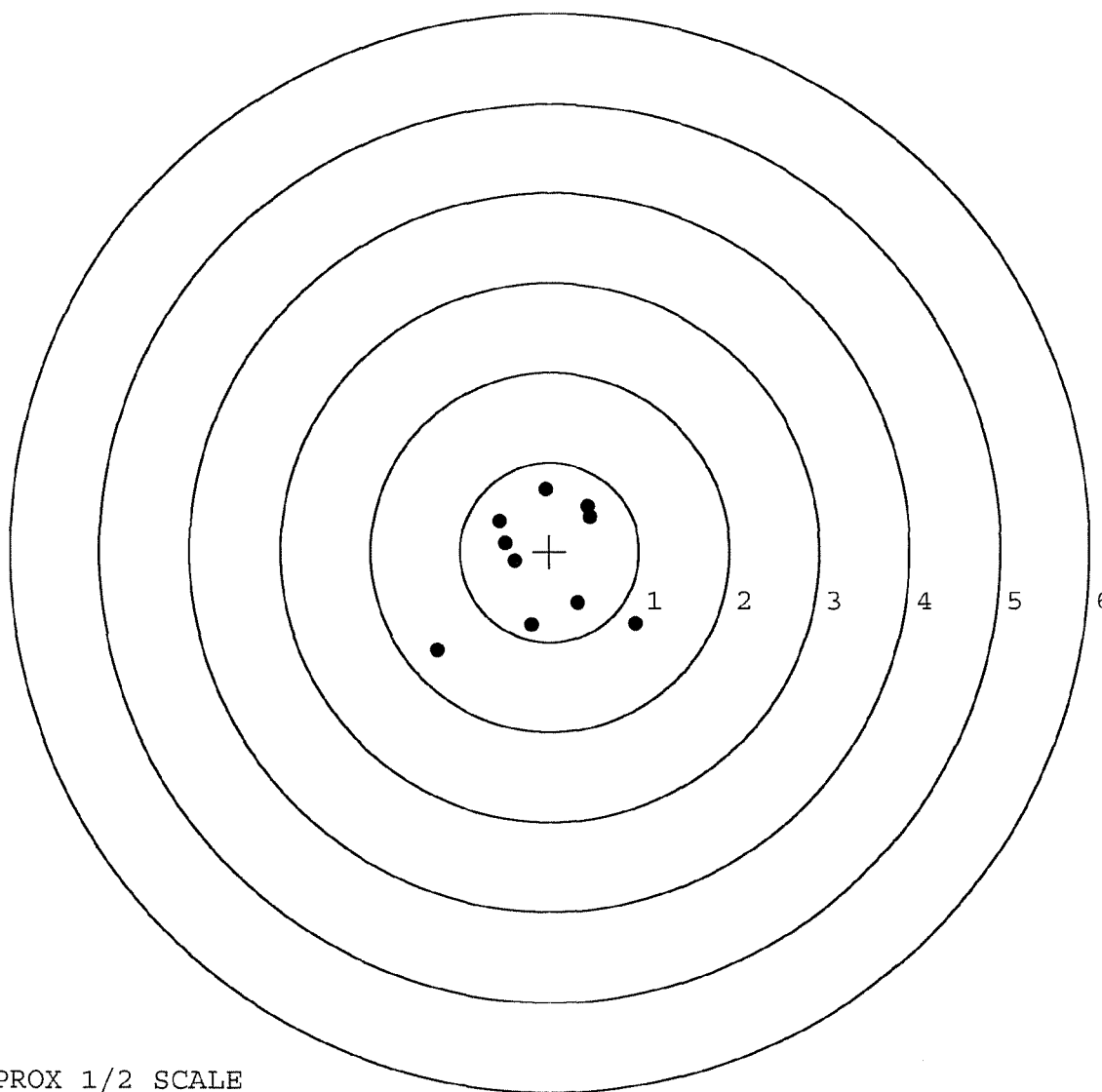
MEAN RADIUS: 0.790

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 9

POINT#	X	Y
1:	0.959	-0.801
2:	0.316	-0.569
3:	-0.210	-0.814
4:	-1.254	-1.098
5:	0.450	0.391
6:	0.425	0.508
7:	-0.047	0.699
8:	-0.390	-0.111
9:	-0.499	0.097
10:	-0.562	0.346



TARGET APPROX 1/2 SCALE

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50 LBS (plus or minus 0.50 LBS)

3.00 LBS (plus or minus 0.75 LBS)

4.00 LBS (plus or minus 1.00 LBS)

SERIAL NO. _____

DATE 2-24-05TESTER TKLW

	2.50 LBS INITIAL	2.50 LBS AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50 LBS		COMMENTS
PULL #1	2.65	2.71		2.39	
PULL #2	2.60	2.74		2.23	
PULL #3	2.72	2.69		2.30	
PULL #4	2.66	2.55		2.35	
PULL #5	2.65	2.49		2.32	
TOTAL	13.28	13.18		11.59	
AVERAGE	2.65	2.63		2.31	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES		COMMENTS
PULL #1	3.25	3.24		
PULL #2	3.10	3.41		
PULL #3	3.12	3.09		
PULL #4	3.02	3.10		
PULL #5	3.06	3.12		
TOTAL	15.55	15.96		
AVERAGE	3.11	3.19		

	4.00 LBS INITIAL	4.00 LBS AFTER 20 CYCLES	MAX SETTING GREATER THAN 4 LBS	RESET TO 4 LBS FOR TARGET & ACCURACY
PULL #1	4.34	4.49		3.92
PULL #2	4.39	4.34		4.14
PULL #3	4.45	4.34		4.02
PULL #4	4.36	4.29		4.00
PULL #5	4.37	4.37		3.96
TOTAL	21.91	21.83		20.04
AVERAGE	4.38	4.36		4.00

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-D-0127

R & E NUMBER	93730		
SERIAL NUMBER	C66/1457		
LOG-IN DATE	2-24-05		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	2-28-05	RTL
560 A	RE-BARREL	3-1-05	RTL
B	DRILL AND TAP	3-1-05	TRW
575	ASSEMBLE	3-1-05	RTL
600	PROOF	3-1-05	AC
605	CHECK HEADSPACE	3-1-05	AC
610	DIS-ASSEMBLE GUN	3-1-05	RTL
612	MAGNAFLUX	OPERATOR	AC
615	ROLLMARK CALIBER	3-1-05	CW
618	ROTO-BLAST	3-3-05	LB
620	APPLY COATINGS	3-16-05	AC
625 A	FINAL ASSEMBLY	3-18-05	RTL
B	TRIGGER PULL TEST	3-22-05	TRW
C	SAFETY "ON" FORCE	3-22-05	AC
D	SAFETY "OFF" FORCE	3-22-05	AC
E	FIRING PIN INDENT	3-22-05	AC
640	TARGET	3-18-05	TRW
655	FINAL INSPECT	3-22-05	AC
660	PACK	3-22-05	DA
		SHIP DATE	
QAR INSPECTION DATE			

Remington		DU PONT REG. U.S. PAT. & TM. OFF.	VERY IMPORTANT: Instruction Book enclosed to assure safe use of this firearm.
MODEL 700™ M24		SERIAL NO. C6611457	ORDER NO. 5716
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat & Tm. Off, Marca Registrada Marque Deposee.			



5716 C6611457

UPC



0 47700 25716 7

MOD. _____ GA. CAL. _____ GUN # 1457

# TEST	DATE	MALFUNCTION/DEFECT	ASSEM. #
KT	1st	Check Safety + Bolt Release	KS
5/15/91	2nd	CHANGED SAFETY INDENT SPG	KS
	3rd	shot 20 rds OK 5-20-91 D/H	
	4th		

FUNCTION

RD 6654

Rev 1

TEST INIT. ACTION TO CORRECT		ASSEM. #
PROOF		
TEST		
TGT		
PROOF		
TEST		
TGT		
PROOF	ENGINEER	
TEST		
TGT		
PROOF	ENGINEER	
TEST		
TGT		

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6611457

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		3/18/91	K.S.
600	Proof		3/18/91	K.S.
607	Check Headspace		3/18/91	K.S.
610	Dis-assemble Gun		3/18/91	K.S.
612	Magnaflux Barrel Action		3/28/91	KR
	Magnaflux Bolt		"	KR
615	Rollmark Caliber		"	GS.
617	Drill and Tap Sight Holes	APR	3 1991	FB
618	Polish Barrel	APR	3 1991	WB
620	Apply Coatings (Barrel Action)		4-19-91	JS
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		5/1/91	KS
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		5/1/91	KS
	C) Inspect Ejector Hole for Chamfer		5/1/91	KS
	D) Oil Firing Pin Ass'y		5/1/91	KS
	E) Adjust Trigger Pull to Min Setting and Stake		5/1/91	JS

op. #	BARBER - M24 0077213	READINGS				DATE	INIT
625 cont.	F) Safety On Force	6	6	6		5/11/91	JK
	G) Safety Off Force	4	4	4		5/11/91	JK
	H) Trigger Pull Test & -Retainability					5/11/91	JK
	I) Firing Pin Indent	0.0215	0.0215	0.0215		5/11/91	JK
	J) Assemble Stock					5/14/91	KS
	K) Assemble Swivel Studs					5-20-91	D/H
	L) Attach Front and Rear Sight Assemblies					5/14/91	KS
	M) Iron Sight Alignment					5/14/91	KS
	N) Detach Front & Rear Sights & place in numbered container					5/14/91	KS
	O) Attach Scope to Rifle					5/14/91	KS
	P) Detach & Attach Scope 20 Times					5/14/91	KS
640	Gallery Target & Test					5/15/91	KT
	A) Time						KT
	B) Malfunctions						KT
	C) Pierced Primers						KT
	D) Optical Clarity of Scope						KT
645	Inspect for Live Ammo					5/15/91	KT
655	Final Inspection						
	A) Headspace					5-20-91	D/H
	B) Trigger Pull	2.59	2.47	2.60	2.61	2.55	5-20-91
	C) Function					5-20-91	D/H
660	Pack					6-15-91	NF

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C-6611457

DATE 5/11/91

TESTER JL

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.45	2.25	2.38	2.59	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.40	2.46	2.45	2.47	
PULL #3	2.34	2.42	2.40	2.60	
PULL #4	2.50	2.48	2.36	2.61	
PULL #5	2.54	2.37	2.40	2.55	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.51	3.42		
PULL #2	3.51	3.40		
PULL #3	3.47	3.41		
PULL #4	3.38	3.43		
PULL #5	3.42	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	4.35	4.35		4.39
PULL #2	4.33	4.32		4.38
PULL #3	4.41	4.40		4.32
PULL #4	4.38	4.37		4.34
PULL #5	4.36	4.41		4.41
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6611457
15 May 1991

CENTROIDAL DISTANCES

0 TO	1	.367925
1 TO	2	.691122
1 TO	3	.886885
1 TO	4	.983058
1 TO	5	.411886

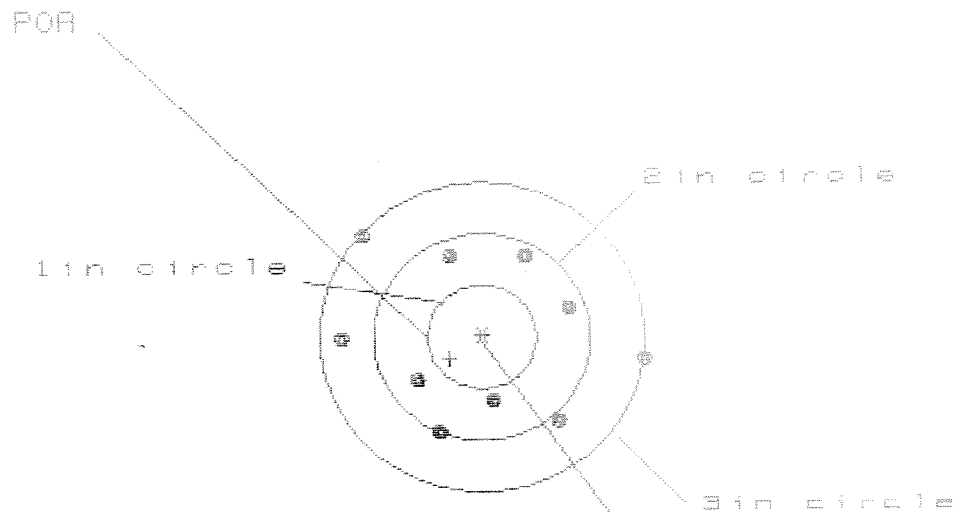
-----FOR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.18
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.1184
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .21545
THE AMP FOR THIS RIFLE IS: 1.027

15 May 1991

FILE:/PATTERNING/CENTERFIRE_PATT/08611457

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1 in = 0

2 in = 6

3 in = 9

HS= 2.828

VS= 1.934

GS= 2.876

CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.522	1.010	.897
MINIMUM X	-1.306	-1.137	-1.250
MAXIMUM Y	1.034	1.011	.930
MINIMUM Y	-.900	-.923	-.797
CENTROID X	.300	.131	.244
CENTROID Y	.213	.236	.110
POA TO CENTROID in.	.360	.270	.267
MIN RADIUS	.665	.595	.572
MEAN RADIUS	1.042	.978	.911
MAX RADIUS	1.537	1.353	1.253
HORIZONTAL SPREAD	2.828	2.147	2.147
VERTICAL SPREAD	1.934	1.934	1.727
EXTREME SPREAD	2.876	2.553	2.172
NUMBER IN ONE INCH CIRCLE =	0		
NUMBER IN TWO INCH CIRCLE =	6		
NUMBER IN THREE INCH CIRCLE =	9		

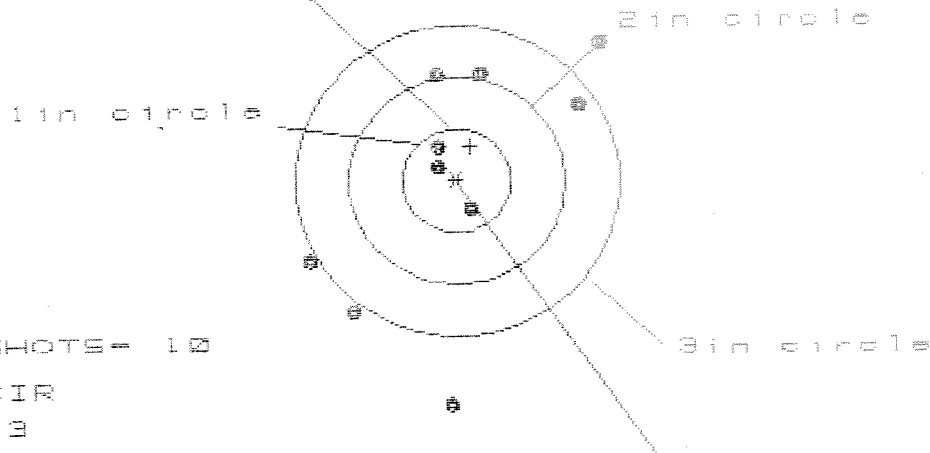
15 May 1981

FILE:/PATTERNING/CENTERFIRE_PATT/08611457

CENTERFIRE PATTERNS

2

POA



OF SHOTS= 10

IN CIR

1 in = 3

2 in = 3

3 in = 6

HS= 2.761

VS= 3.489

GS= 3.765

CENTROID *

PATTERN #

2

SHOTS (BEST OF)

10

9

8

MAXIMUM X

1.365

1.360

1.306

MINIMUM X

-1.396

-1.401

-1.231

MAXIMUM Y

1.306

1.064

.922

MINIMUM Y

-2.183

-1.510

-1.378

CENTROID X

-.125

-.120

-.290

CENTROID Y

-.332

-.090

-.223

POA TO CENTROID in.

.355

.150

.365

MIN RADIUS

.158

.184

.040

MEAN RADIUS

1.151

1.000

.898

MAX RADIUS

2.183

1.800

1.598

HORIZONTAL SPREAD

2.761

2.761

2.537

VERTICAL SPREAD

3.489

2.574

2.300

EXTREME SPREAD

3.765

3.478

2.911

NUMBER IN ONE INCH CIRCLE =

3

NUMBER IN TWO INCH CIRCLE =

3

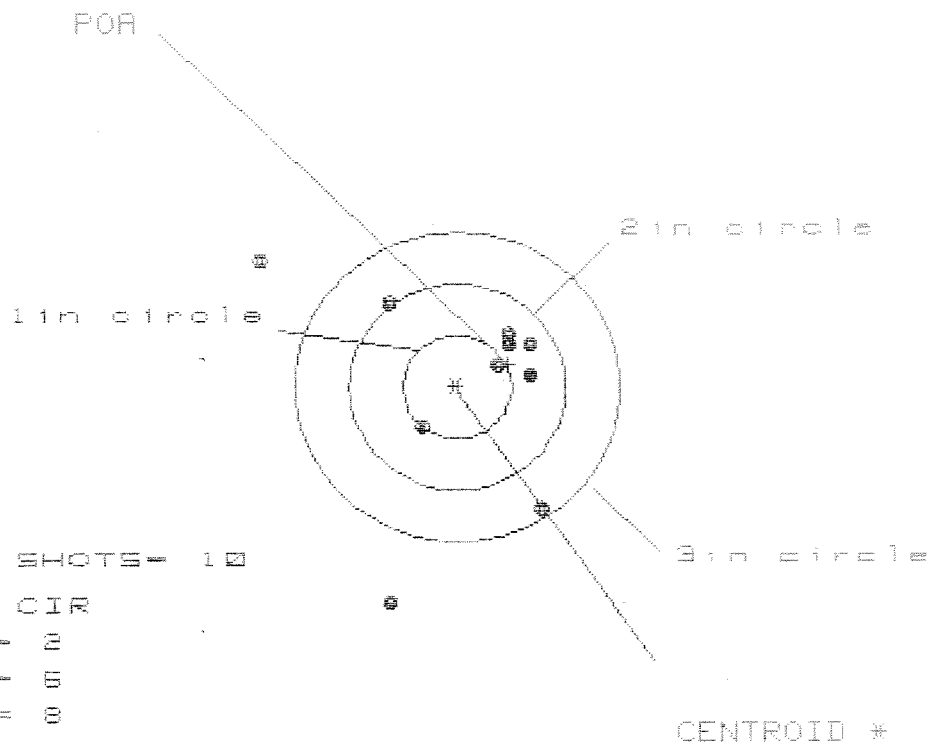
NUMBER IN THREE INCH CIRCLE =

6

15 May 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8611457

CENTERFIRE PATTERNS # 3



OF SHOTS = 10

IN CIR

1in = 2

2in = 6

3in = 8

HS = 2.609

VS = 3.345

GS = 3.544

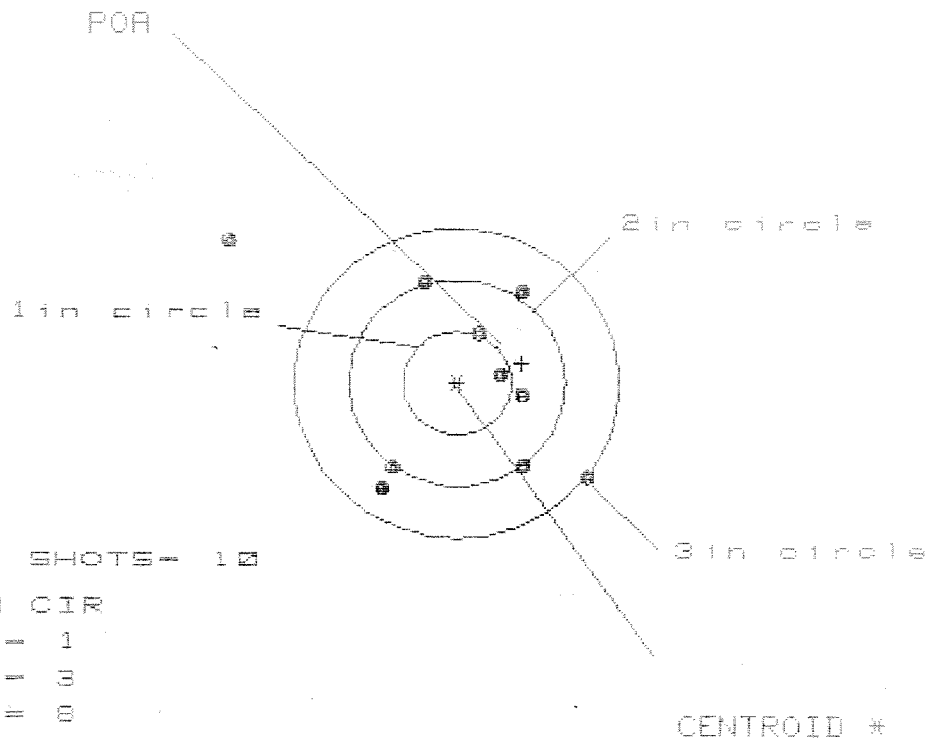
CENTROID *

PATTERN #	3
SHOTS (BEST OF)	10
MAXIMUM X	.806
MINIMUM X	-1.803
MAXIMUM Y	1.217
MINIMUM Y	-2.128
CENTROID X	-.474
CENTROID Y	-.220
POA TO CENTROID in.	.522
MIN RADIUS	.428
MEAN RADIUS	1.050
MAX RADIUS	2.220
HORIZONTAL SPREAD	2.609
VERTICAL SPREAD	3.345
EXTREME SPREAD	3.544
NUMBER IN ONE INCH CIRCLE =	2
NUMBER IN TWO INCH CIRCLE =	6
NUMBER IN THREE INCH CIRCLE =	8

15 May 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8611457

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 3

3 in = 6

HS= 3.325

VS= 2.341

CS= 4.046

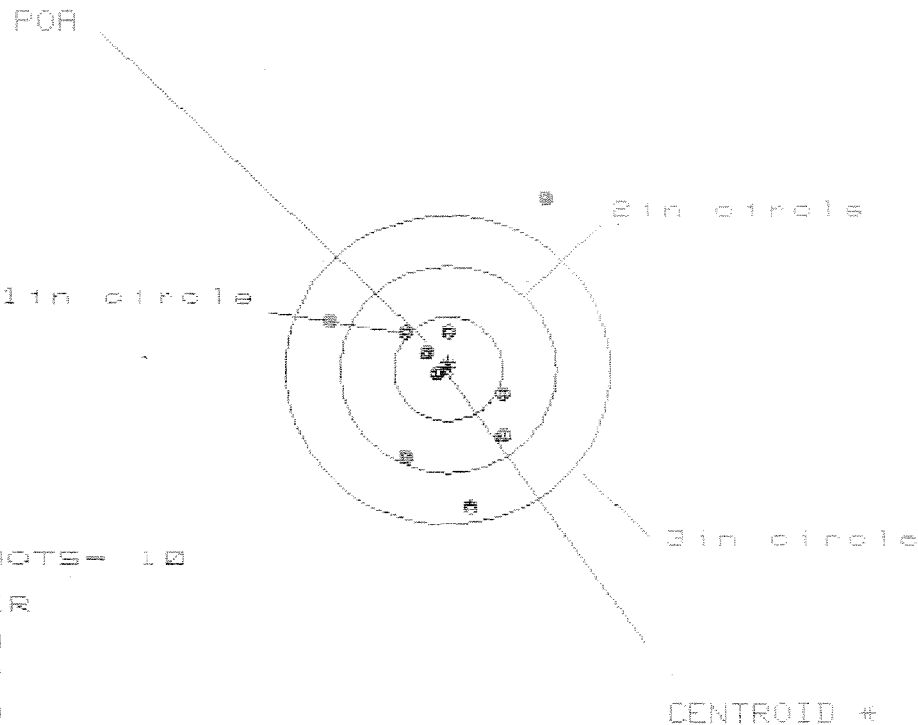
PATTERN #	4		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.245	1.013	.527
MINIMUM X	-2.080	-.886	-.759
MAXIMUM Y	1.350	1.099	.998
MINIMUM Y	-.991	-.841	-.942
CENTROID X	-.598	-.366	-.493
CENTROID Y	-.187	-.337	-.236
POA TO CENTROID in.	.626	.498	.547
MIN RADIUS	.386	.261	.298
MEAN RADIUS	1.097	.894	.845
MAX RADIUS	2.480	1.294	1.209
HORIZONTAL SPREAD	3.325	1.899	1.286
VERTICAL SPREAD	2.341	1.940	1.940
EXTREME SPREAD	4.046	2.463	2.248
NUMBER IN ONE INCH CIRCLE =		1	
NUMBER IN TWO INCH CIRCLE =		3	
NUMBER IN THREE INCH CIRCLE =		8	

15 May 1991

FILE:/PATTERNING/CENTERFIRE_PATT/06611457

CENTERFIRE PATTERNS

5



OF SHOTS= 10

IN CIR

1in = 3

2in = 7

3in = 8

HS= 1.986

VS= 2.974

GS= 3.065

PATTERN #	5
SHOTS (BEST OF)	10
MAXIMUM X	.921
MINIMUM X	-1.065
MAXIMUM Y	1.671
MINIMUM Y	-1.303
CENTROID X	-.003
CENTROID Y	-.066
POA TO CENTROID in.	.066
MIN RADIUS	.149
MEAN RADIUS	.796
MAX RADIUS	1.908
HORIZONTAL SPREAD	1.986
VERTICAL SPREAD	2.974
EXTREME SPREAD	3.065
NUMBER IN ONE INCH CIRCLE	3
NUMBER IN TWO INCH CIRCLE	7
NUMBER IN THREE INCH CIRCLE	8