

C6636296

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

Remington®

MODEL 700™ H24

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

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

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

SERIAL NO.
C6636296

ORDER NO.
5716

20

UPC

0 47700 25716 7

5716 C6636296

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6636296

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	QUALITY AUDIT	6/24/91	KQ
600	Proof		6/24/91	KQ
607	Check Headspace		6/24/91	KQ
610	Dis-assemble Gun		6/24/91	KQ
612	Magnaflux Barrel Action		JUL 1 1991	KR
	Magnaflux Bolt		JUL 1 1991	KR
615	Rollmark Caliber		JUL 1 1991	GS
617	Drill and Tap Sight Holes		JUL 1 1991	LB
618	Polish Barrel		JUL 2 1991	WB
620	Apply Coatings (Barrel Action)		7-23-91	JA
	Apply Coating (Bolt)			
625	Final Assembly			
	A) Clean inside of Bolt Assembly		7/23/91	KS
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		7/23/91	KS
	C) Inspect Ejector Hole for Chamfer		7/23/91	KS
	D) Oil Firing Pin Ass'y		7/23/91	KS
	E) Adjust Trigger Pull to Min Setting and Stake		7-31-91	JS

op. #	BARBER, M24 0032727 OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	6	5 1/4	6			7-31-91	DH
	G) Safety Off Force	3 3/4	3 3/4	4			7-31-91	DH
	H) Trigger Pull Test & Retainability						7-31-91	JLP
	I) Firing Pin Indent	.021	.022	.021			7-31-91	DH
	J) Assemble Stock						7/31/91	KS
	K) Assemble Swivel Studs						8-6-91	AC
	L) Attach Front and Rear Sight Assemblies						7/31/91	KS
	M) Iron Sight Alignment						7/31/91	KS
	N) Detach Front & Rear Sights & place in numbered container						7/31/91	KS
	O) Attach Scope to Rifle						7/31/91	KS
	P) Detach & Attach Scope 20 Times						7/31/91	KS
640	Gallery Target & Test						8-1-91	AC
	A) Time						8-1-91	AC
	B) Malfunctions						8-1-91	AC
	C) Pierced Primers						8-1-91	AC
	D) Optical Clarity of Scope						8-1-91	AC
645	Inspect for Live Ammo						8-1-91	AC
655	Final Inspection							
	A) Headspace						8-6-91	AC
	B) Trigger Pull	2.42	2.50	2.55	2.58	2.55	8-6-91	JLP
	C) Function						8-6-91	AC
660	Pack						9-17-91	DH

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

SERIAL NO. C-6636296DATE 7-31-91TESTER JLL

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.33	2.51	2.38	2.42	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.38	2.52	2.50	2.50	
PULL #3	2.50	2.29	2.50	2.55	
PULL #4	2.26	2.52	2.39	2.58	
PULL #5	2.48	2.39	2.30	2.55	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.36	3.49		
PULL #2	3.47	3.55		
PULL #3	3.43	3.56		
PULL #4	3.43	3.55		
PULL #5	3.46	3.55		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.21	4.27		4.21
PULL #2	4.20	2.25		4.32
PULL #3	4.21	2.20		4.32
PULL #4	4.21	2.28		4.30
PULL #5	4.27	4.21		4.35
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06636296
1 Aug 1991

CENTROIDAL DISTANCES

0 TO	1	.47746
1 TO	2	.52433
1 TO	3	.191846
1 TO	4	.518693
1 TO	5	.567906

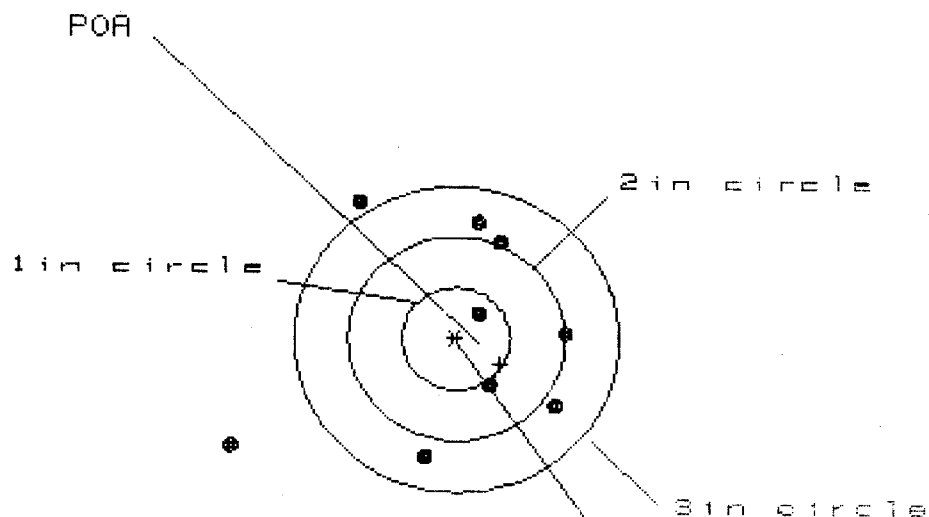
$\frac{b^2}{s^4}$ <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.1414
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .1079
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .177806
THE AMP FOR THIS RIFLE IS: 1.003

1 Aug 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6636286

CENTERFIRE PATTERNS # 1



* OF SHOTS - 10

IN CIR

1 in = 1

2 in = 4

3 in = 8

HS = 2.050

VS = 2.496

CS = 3.248

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.984	.755	.610
MINIMUM X	-2.066	-1.159	-.708
MAXIMUM Y	1.357	1.236	1.150
MINIMUM Y	-1.139	-1.260	-1.106
CENTROID X	-.408	-.179	-.034
CENTROID Y	.248	.369	.215
POA TO CENTROID in.	.478	.410	.217
MIN RADIUS	.349	.155	.347
MEAN RADIUS	1.087	.890	.761
MAX RADIUS	2.335	1.694	1.313
HORIZONTAL SPREAD	3.050	1.914	1.318
VERTICAL SPREAD	2.496	2.496	2.256
EXTREME SPREAD	3.248	2.718	2.321
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	8		

1 Aug 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6636296

CENTERFIRE PATTERNS # 2

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS - 10

IN CIR

1 in = 1

2 in = 5

3 in = 9

HS = 2.084

VS = 2.853

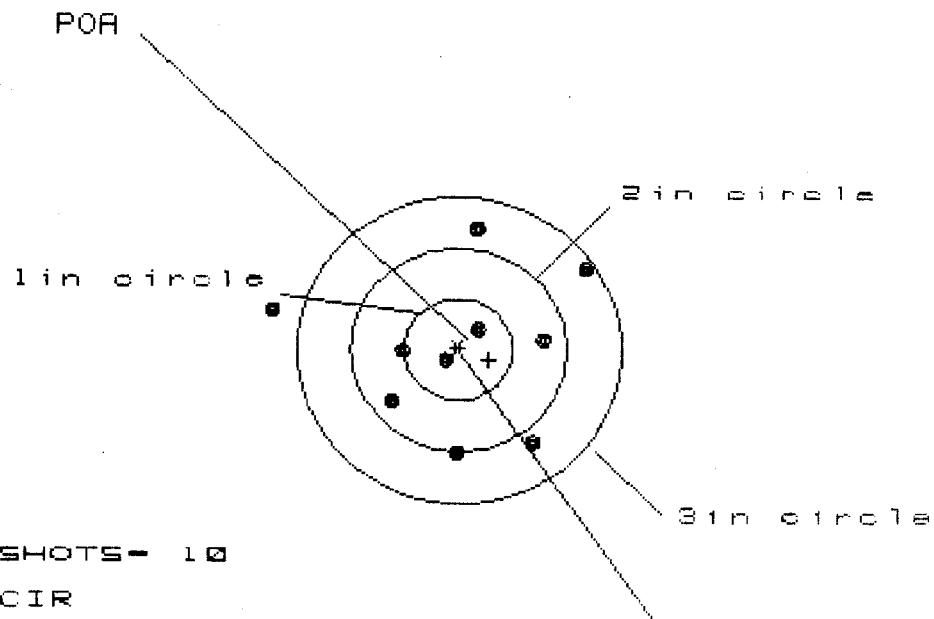
GS = 3.121

PATTERN #	:	10	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.063	.900	.889
MINIMUM X	:	-1.021	-.903	-.914
MAXIMUM Y	:	1.481	1.090	.939
MINIMUM Y	:	-1.372	-1.207	-1.205
CENTROID X	:	.091	-.027	-.016
CENTROID Y	:	.409	.244	.395
POA TO CENTROID in.	:	.419	.246	.396
MIN RADIUS	:	.198	.357	.206
MEAN RADIUS	:	.980	.875	.813
MAX RADIUS	:	1.823	1.302	1.206
HORIZONTAL SPREAD	:	2.084	1.803	1.803
VERTICAL SPREAD	:	2.853	2.297	2.144
EXTREME SPREAD	:	3.121	2.364	2.176
NUMBER IN ONE INCH CIRCLE	=	1		
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		9	

1 Aug 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6636296

CENTERFIRE PATTERNS # 3



* OF SHOTS - 10

IN CIR

1 in - 3

2 in - 6

3 in - 9

HS - 2.887

VS - 2.190

GS - 2.911

PATTERN #	10	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.191	1.002	.669
MINIMUM X	-1.697	-.819	-.694
MAXIMUM Y	1.205	1.251	1.355
MINIMUM Y	-.985	-.939	-.835
CENTROID X	-.279	-.090	-.215
CENTROID Y	.106	.060	-.044
POA TO CENTROID in.	.298	.108	.220
MIN RADIUS	.164	.194	.159
MEAN RADIUS	.897	.800	.716
MAX RADIUS	1.746	1.301	1.358
HORIZONTAL SPREAD	2.887	1.821	1.363
VERTICAL SPREAD	2.190	2.190	2.190
EXTREME SPREAD	2.911	2.258	2.201
NUMBER IN ONE INCH CIRCLE =	3		
NUMBER IN TWO INCH CIRCLE =	6		
NUMBER IN THREE INCH CIRCLE =	9		

1 Aug 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6636296

CENTERFIRE PATTERNS # 4

POA

1in circle

2in circle

3in circle

OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 7

CENTROID *

HS= 3.370

VS= 2.807

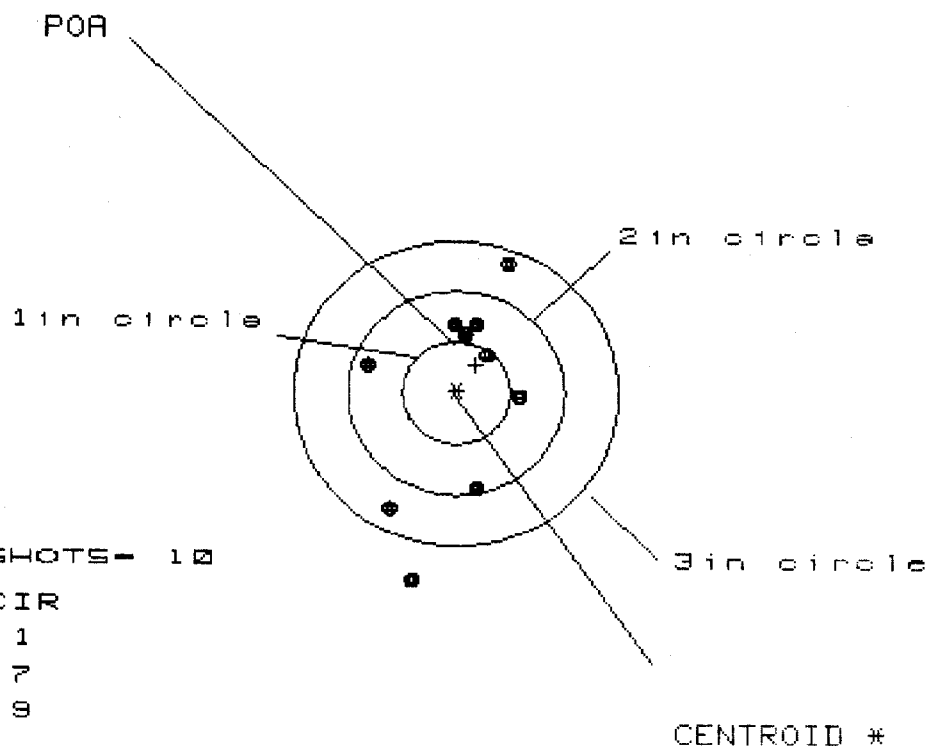
GS= 3.372

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.888	1.097	1.130
MINIMUM X	-1.482	-1.272	-1.239
MAXIMUM Y	.901	.939	.705
MINIMUM Y	-1.906	-1.868	-.697
CENTROID X	.071	-.139	-.172
CENTROID Y	.049	.011	.245
POA TO CENTROID in.	.086	.140	.299
MIN RADIUS	.465	.477	.331
MEAN RADIUS	1.112	1.011	.879
MAX RADIUS	1.919	1.887	1.268
HORIZONTAL SPREAD	3.370	2.369	2.369
VERTICAL SPREAD	2.807	2.807	1.402
EXTREME SPREAD	3.372	2.843	2.370
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	7		

1 Aug 1991

FILE:/PATTERNING/CENTERFIRE_PATT/CG636296

CENTERFIRE PATTERNS # 5



OF SHOTS - 10

IN CIR

1in = 1

2in = 7

3in = 9

HS = 1.375

VS = 3.126

GS = 3.272

PATTERN #	:	10	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.599	.549	.606
MINIMUM X	:	-.776	-.826	-.769
MAXIMUM Y	:	1.310	1.108	.632
MINIMUM Y	:	-1.816	-1.323	-1.184
CENTROID X	:	-.182	-.132	-.189
CENTROID Y	:	-.273	-.071	-.210
POA TO CENTROID in.	:	.328	.150	.283
MIN RADIUS	:	.462	.293	.422
MEAN RADIUS	:	.941	.771	.750
MAX RADIUS	:	1.872	1.464	1.314
HORIZONTAL SPREAD	:	1.375	1.375	1.375
VERTICAL SPREAD	:	3.126	2.431	1.816
EXTREME SPREAD	:	3.272	2.663	1.957
NUMBER IN ONE INCH CIRCLE =	:	1	7	9
NUMBER IN TWO INCH CIRCLE =	:	7	9	
NUMBER IN THREE INCH CIRCLE =	:	9		

INTERCHANGEABILITY

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06636296
16 Sep 1991

CENTROIDAL DISTANCES

0 TO	1	.110168
1 TO	2	.293711
1 TO	3	.237952
1 TO	4	.394446
1 TO	5	.237994

σ^2 <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0354
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0444
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0567849
THE AMR FOR THIS RIFLE IS: .9932

16 Sep 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6636296.1

CENTERFIRE PATTERNS # 1

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 = 1.927

VS = 3.172

GS = 3.279

CENTROID #

PATTERN #	:	10	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.287	1.374	1.424
MINIMUM X	:	-.640	-.553	-.503
MAXIMUM Y	:	1.615	1.462	1.290
MINIMUM Y	:	-1.557	-1.378	-1.371
CENTROID X	:	.016	-.071	-.121
CENTROID Y	:	.109	-.070	.102
POA TO CENTROID in.	:	.110	.100	.158
MIN RADIUS	:	.426	.437	.308
MEAN RADIUS	:	1.154	1.060	.993
MAX RADIUS	:	1.797	1.463	1.433
HORIZONTAL SPREAD	:	1.927	1.927	1.927
VERTICAL SPREAD	:	3.172	2.840	2.661
EXTREME SPREAD	:	3.279	2.872	2.696
NUMBER IN ONE INCH CIRCLE	=	1		
NUMBER IN TWO INCH CIRCLE	=	3		
NUMBER IN THREE INCH CIRCLE	=	8		

16 Sep 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6636296.1

CENTERFIRE PATTERNS # 2

POA

1 in circle

2 in circle

3 in circle

OF SHOTS - 10

IN CIR

1 in = 0

2 in = 5

3 in = 8

HS = 3.093

VS = 2.357

GS = 3.422

CENTROID *

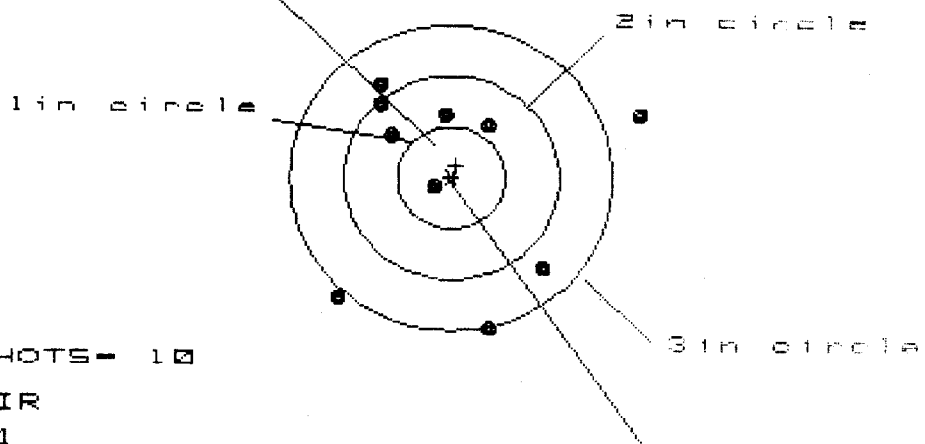
PATTERN #	:			
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.466	1.286	1.309
MINIMUM X	:	-1.627	-.770	-.610
MAXIMUM Y	:	.968	.893	.982
MINIMUM Y	:	-1.389	-1.464	-1.375
CENTROID X	:	.301	.481	.321
CENTROID Y	:	.038	.113	.024
POA TO CENTROID in.	:	.303	.494	.322
MIN RADIUS	:	.643	.653	.667
MEAN RADIUS	:	1.117	1.042	.970
MAX RADIUS	:	1.762	1.475	1.375
HORIZONTAL SPREAD	:	3.093	2.056	1.919
VERTICAL SPREAD	:	2.357	2.357	2.357
EXTREME SPREAD	:	3.422	2.623	2.404
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		8	

16 Sep 1991

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CENTERFIRE PATTERNS # 3

POA



OF SHOTS - 10

IN CIR

1in = 1

2in = 5

3in = 7

HS = 2.765

VS = 2.463

GS = 3.278

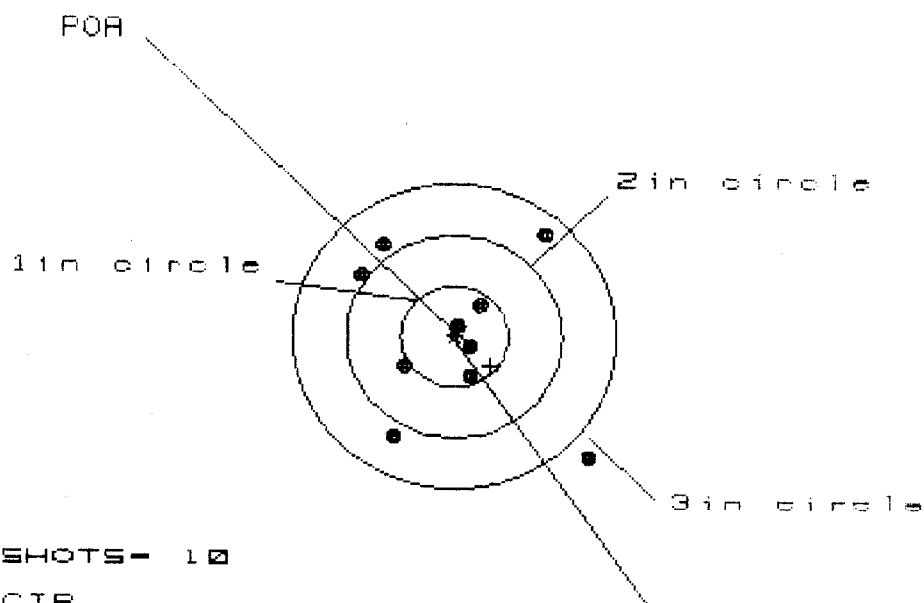
CENTROID *

PATTERN #	:	10	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.727	.996	.890
MINIMUM X	:	-1.038	-.846	-.596
MAXIMUM Y	:	.950	1.015	.876
MINIMUM Y	:	-1.513	-1.448	-1.587
CENTROID X	:	-.045	-.237	-.131
CENTROID Y	:	-.121	-.186	-.047
POA TO CENTROID in.	:	.129	.301	.139
MIN RADIUS	:	.234	.059	.228
MEAN RADIUS	:	1.041	.930	.850
MAX RADIUS	:	1.822	1.550	1.649
HORIZONTAL SPREAD	:	2.765	1.842	1.486
VERTICAL SPREAD	:	2.463	2.463	2.463
EXTREME SPREAD	:	3.278	2.671	2.671
NUMBER IN ONE INCH CIRCLE =	:	1		
NUMBER IN TWO INCH CIRCLE =	:	5		
NUMBER IN THREE INCH CIRCLE =	:	7		

16 Sep 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6636256.1

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1in - 4

2in - 5

3in = 9

HS- 2.061

VS= 2.247

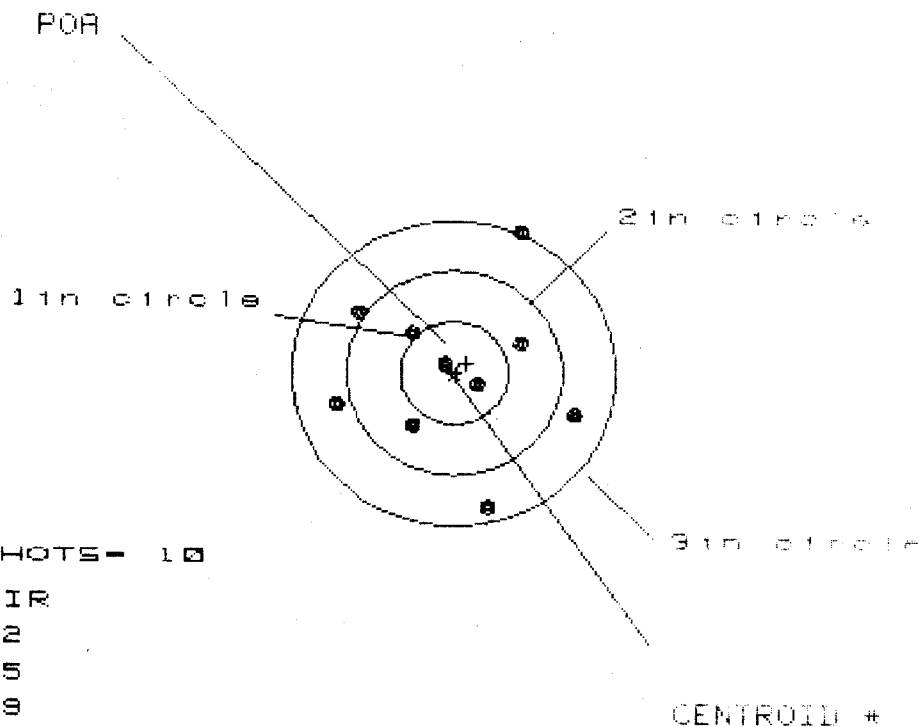
GS= 2.831

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.206	.944	.492
MINIMUM X	-.855	-.721	-.603
MAXIMUM Y	1.038	.903	.871
MINIMUM Y	-1.209	-1.161	-1.048
CENTROID X	-.336	-.470	-.588
CENTROID Y	.287	.422	.309
POA TO CENTROID in.	.442	.631	.664
MIN RADIUS	.151	.212	.347
MEAN RADIUS	.801	.713	.639
MAX RADIUS	1.708	1.306	1.084
HORIZONTAL SPREAD	2.061	1.665	1.095
VERTICAL SPREAD	2.247	2.064	1.919
EXTREME SPREAD	2.831	2.461	1.926
NUMBER IN ONE INCH CIRCLE =	4		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	9		

16 Sep 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6636296.1

CENTERFIRE PATTERNS # 5



OF SHOTS - 10

IN CIR

1in = 2

2in = 5

3in = 9

HS = 2.162

VS = 2.736

GS = 2.753

PATTERN #	:	10	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.066	1.137	1.187
MINIMUM X	:	-1.096	-1.025	-.975
MAXIMUM Y	:	1.414	.716	.570
MINIMUM Y	:	-1.322	-1.164	-.520
CENTROID X	:	-.113	-.184	-.234
CENTROID Y	:	-.091	-.249	-.103
POA TO CENTROID in.	:	.145	.309	.256
MIN RADIUS	:	.143	.227	.074
MEAN RADIUS	:	.853	.775	.690
MAX RADIUS	:	1.551	1.233	1.251
HORIZONTAL SPREAD	:	2.162	2.162	2.162
VERTICAL SPREAD	:	2.736	1.880	1.090
EXTREME SPREAD	:	2.753	2.253	2.196
NUMBER IN ONE INCH CIRCLE	=	2		
NUMBER IN TWO INCH CIRCLE	=	5		
NUMBER IN THREE INCH CIRCLE	=	9		