

BARBER - M24 0101170

UPC



0 47700 25716 7

C6665673

*INCLUDES 1 IN CHAMBER

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

BARBER - M24 0101170 01209

MODEL 700 TM M24

ORDER NO. 5716

BARREL LENGTH

CAPACITY*

Remington MODEL 700™ M24		VERY IMPORTANT: Instruction Book enclosed to assure safe use of this firearm.
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat & Tm. Off, Marca Registrada Marque Deposee.		
20		SERIAL NO. C6665673
		ORDER NO. 5716



ORDER 5716
MODEL 700™ M24
UPC



ORDER 5716
MODEL 700™ M24
UPC



GFM

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6665673

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	10 1 91		RW
600	Proof	10 1 91		RW
607	Check Headspace	10 1 91		RW
610	Dis-assemble Gun	10 1 91		RW
612	Magnaflux Barrel Action	OCT	4 1991	KR
	Magnaflux Bolt	OCT	4 1991	KR
615	Rollmark Caliber	OCT	4 1991	LS.
617	Drill and Tap Sight Holes	OCT	4 1991	LS
618	Polish Barrel		10/8/91	LSB
620	Apply Coatings (Barrel Action)		10-22-91	LS
	Apply Coating (Bolt)			
625	Final Assembly			
	A) Clean inside of Bolt Assembly		10/22/91	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		10/22/91	RW
	C) Inspect Ejector Hole for Chamfer		10/22/91	RW
	D) Oil Firing Pin Ass'y		10/22/91	RW
	E) Adjust Trigger Pull to Min Setting and Stake		10/30/91	RY

op. #	BARBER - M24 0101174 OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	4½	4½			10-30-91	DH
	G) Safety Off Force	2¾	2½	2½			10-30-91	DH
	H) Trigger Pull Test & Retainability						10/30/91	JL
	I) Firing Pin Indent	.020	.020	.020			10-30-91	DH
	J) Assemble Stock						11/4/91	RW
	K) Assemble Swivel Studs						11-13-91	AC
	L) Attach Front and Rear Sight Assemblies						11/4/91	RW
	M) Iron Sight Alignment						11/4/91	RW
	N) Detach Front & Rear Sights & place in numbered container						11/4/91	RW
	O) Attach Scope to Rifle						11/4/91	RW
	P) Detach & Attach Scope 20 Times						11/4/91	RW
640	Gallery Target & Test						11-4-91	N
	A) Time						"	NF
	B) Malfunctions						"	NF
	C) Pierced Primers						"	NF
	D) Optical Clarity of Scope						"	NF
645	Inspect for Live Ammo						11-4-91	NF
655	Final Inspection							
	A) Headspace						11-13-91	AC
	B) Trigger Pull	241	228	234	233	236	11-6-91	DH
	C) Function						11-13-91	AC
660	Pack						12-18-91	NF

SWS TRIGGER PULL TESTAVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO C-6665673DATE 10/30/91TESTER JH

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.18	2.36	2.48	2.41	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.22	2.37	2.41	2.28	
PULL #3	2.46	2.47	2.38	2.34	
PULL #4	2.40	2.33	2.35	2.33	
PULL #5	2.43	2.38	2.31	2.36	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.53	3.51		
PULL #2	3.48	3.48		
PULL #3	3.55	3.35		
PULL #4	3.49	3.52		
PULL #5	3.55	3.56		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.51	4.36		4.35
PULL #2	4.37	4.27		4.26
PULL #3	4.31	4.27		4.30
PULL #4	4.39	4.33		4.20
PULL #5	4.32	4.25		4.30
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6865673
4 Nov 1991

CENTROIDAL DISTANCES

0	TO	1	.228116
1	TO	2	.303026
1	TO	3	.395831
1	TO	4	.189011
1	TO	5	.286184

[illegible]

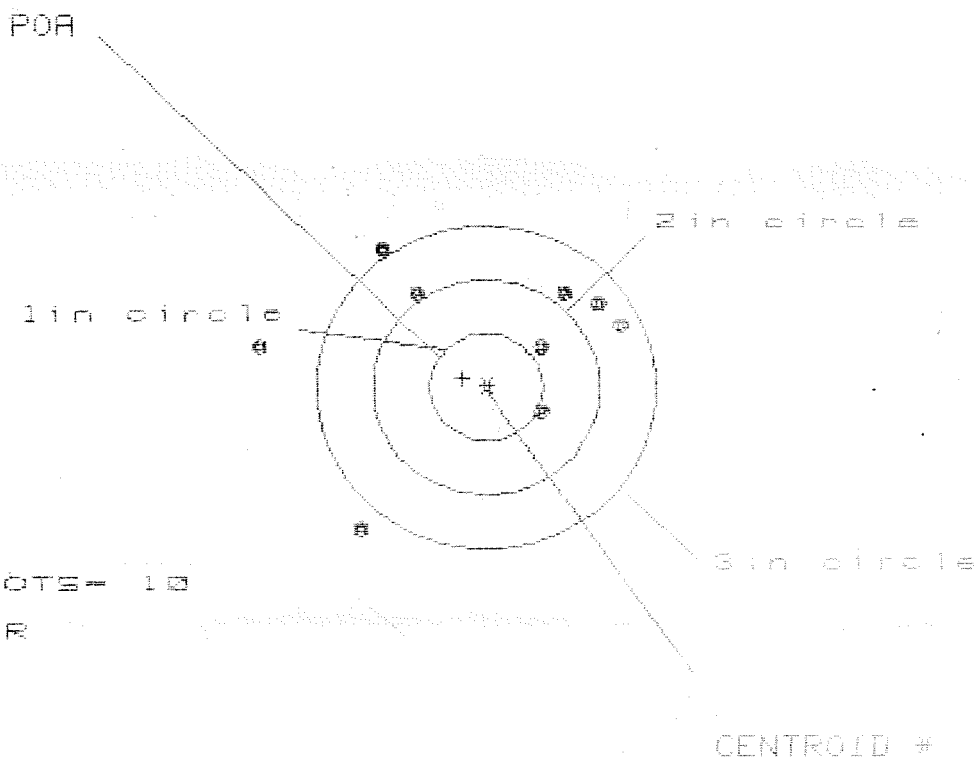
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THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0284
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0012
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0284253
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THE AMR FOR THIS RIFLE IS: 1.26

4 Nov 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8865673

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1 in = 0

2 in = 2

3 in = 6

HS= 3.216

VS= 4.905

GS= 5.276

PATTERN #	:	1	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.164	1.274	1.031
MINIMUM X	:	-2.052	-1.942	-1.258
MAXIMUM Y	:	1.243	.836	.831
MINIMUM Y	:	-3.662	-1.739	-1.744
CENTROID X	:	.214	.104	.347
CENTROID Y	:	-.079	.328	.333
POA TO CENTROID in.	:	.228	.344	.481
MIN RADIUS	:	.518	.582	.340
MEAN RADIUS	:	1.512	1.185	1.023
MAX RADIUS	:	3.793	2.014	2.150
HORIZONTAL SPREAD	:	3.216	3.216	2.289
VERTICAL SPREAD	:	4.905	2.575	2.575
EXTREME SPREAD	:	5.276	3.224	3.001
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		2	
NUMBER IN THREE INCH CIRCLE	=		6	

4 Nov 1991

FILE:/PATTERNING/CENTERFIRE_PATT/08865673

CENTERFIRE PATTERNS # 2

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 7

HS= 2.989

VS= 3.492

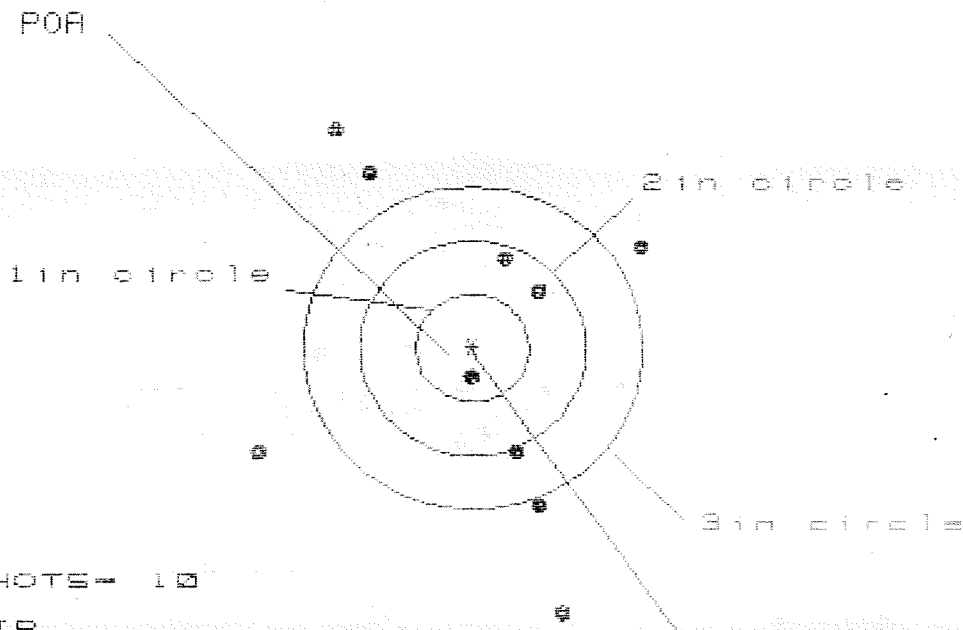
GS= 3.652

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.766	1.630	1.166
MINIMUM X	:	-1.223	-1.344	-1.141
MAXIMUM Y	:	1.732	1.536	1.540
MINIMUM Y	:	-1.760	-.725	-.721
CENTROID X	:	-.078	.058	-.145
CENTROID Y	:	-.160	.036	.032
POA TO CENTROID in.	:	.177	.069	.149
MIN RADIUS	:	.358	.562	.384
MEAN RADIUS	:	1.118	1.029	.913
MAX RADIUS	:	2.144	1.630	1.543
HORIZONTAL SPREAD	:	2.989	2.974	2.387
VERTICAL SPREAD	:	3.492	2.261	2.261
EXTREME SPREAD	:	3.652	2.974	2.394
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		7	

4 Nov 1991

FILE:/PATTERNING/CENTERFIRE_PATT/08685873

CENTERFIRE PATTERNS # 3



OF SHOTS = 10

IN CIR

1 in = 1

2 in = 4

3 in = 4

HS = 3.442

VS = 4.552

GS = 4.978

CENTROID #

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.534	1.618	1.472
MINIMUM X	:	-1.908	-1.824	-1.970
MAXIMUM Y	:	2.073	1.797	1.589
MINIMUM Y	:	-2.479	-1.767	-1.542
CENTROID X	:	.013	-.071	.075
CENTROID Y	:	.262	.538	.313
POA TO CENTROID in.	:	.263	.542	.322
MIN RADIUS	:	.222	.504	.286
MEAN RADIUS	:	1.531	1.413	1.281
MAX RADIUS	:	2.593	2.197	2.210
HORIZONTAL SPREAD	:	3.442	3.442	3.442
VERTICAL SPREAD	:	4.552	3.564	3.131
EXTREME SPREAD	:	4.978	4.029	3.948
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		4	

4 Nov 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8B65673

CENTERFIRE PATTERNS # 4

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS- 10

IN CIR

1 in = 1

2 in = 5

3 in = 10

HS= 2.425

VS= 2.209

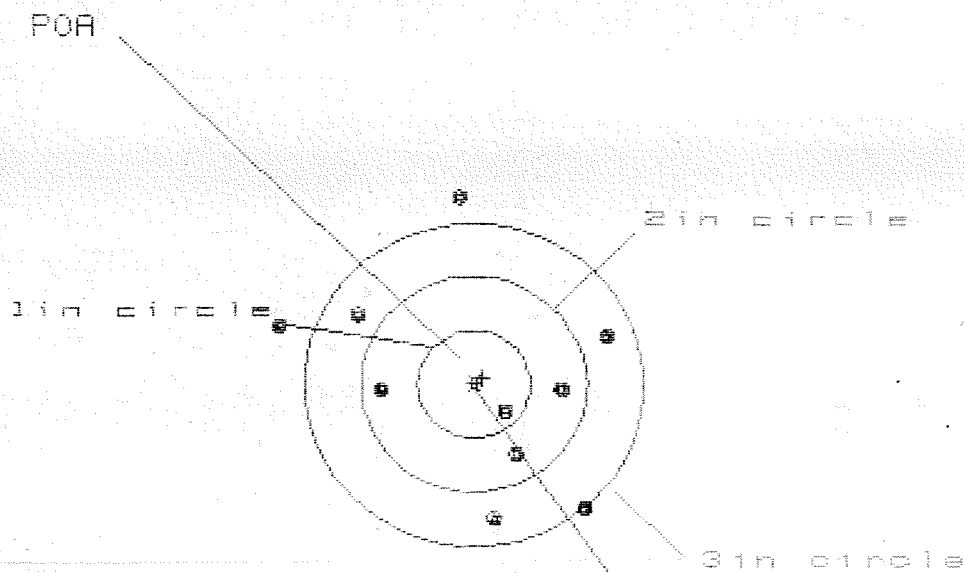
GS= 2.693

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.091	.942	.791
MINIMUM X	:	-1.334	-1.214	-1.911
MAXIMUM Y	:	.881	.926	.850
MINIMUM Y	:	-1.328	-1.283	-1.168
CENTROID X	:	.064	.213	.364
CENTROID Y	:	.036	-.009	-.124
POA TO CENTROID in.	:	.074	.213	.385
MIN RADIUS	:	.417	.406	.403
MEAN RADIUS	:	.987	.923	.826
MAX RADIUS	:	1.394	1.526	1.246
HORIZONTAL SPREAD	:	2.425	2.156	1.782
VERTICAL SPREAD	:	2.209	2.209	2.018
EXTREME SPREAD	:	2.693	2.693	2.218
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		10	

4 Nov 1991

FILE:/PATTERNING/CENTERFIRE_PATT/06685673

CENTERFIRE PATTERNS # 5



OF SHOTS= 10

IN CIR

1in = 1

2in = 4

3in = 8

HS= 2.856

VS= 3.032

GS= 3.156

CENTROID *

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.157	.969	.930
MINIMUM X	:	-1.699	-1.196	-1.235
MAXIMUM Y	:	1.752	1.810	.954
MINIMUM Y	:	-1.280	-1.222	-.996
CENTROID X	:	-.071	.117	.156
CENTROID Y	:	-.053	-.111	-.337
POA TO CENTROID in.	:	.089	.161	.372
MIN RADIUS	:	.357	.223	.007
MEAN RADIUS	:	1.154	1.044	.877
MAX RADIUS	:	1.777	1.836	1.561
HORIZONTAL SPREAD	:	2.856	2.165	2.165
VERTICAL SPREAD	:	3.032	3.032	1.950
EXTREME SPREAD	:	3.156	3.079	2.686
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		8	

BARBER - M24 040101221
INTERCHANGEABILITY

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6665673
13 Dec 1991

CENTROIDAL DISTANCES

0 TO	1	.021587
1 TO	2	.203647
1 TO	3	.0460652
1 TO	4	.0766942
1 TO	5	.0698928

←----POA

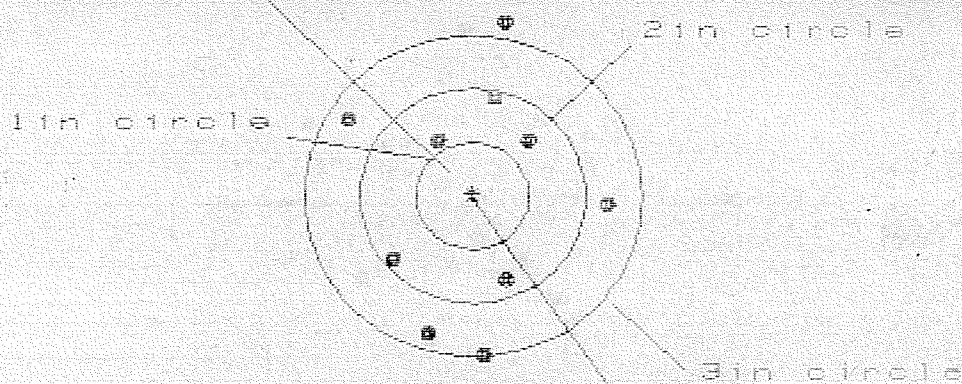
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0284
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.069
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0746161
THE AMR FOR THIS RIFLE IS: .9676

13 Dec 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6665673.1

CENTERFIRE PATTERNS # 1

POA



OF SHOTS = 10

IN CIR

1in = 0

2in = 5

3in = 9

HS= 2.217

VS= 3.074

GS= 3.084

CENTROID *

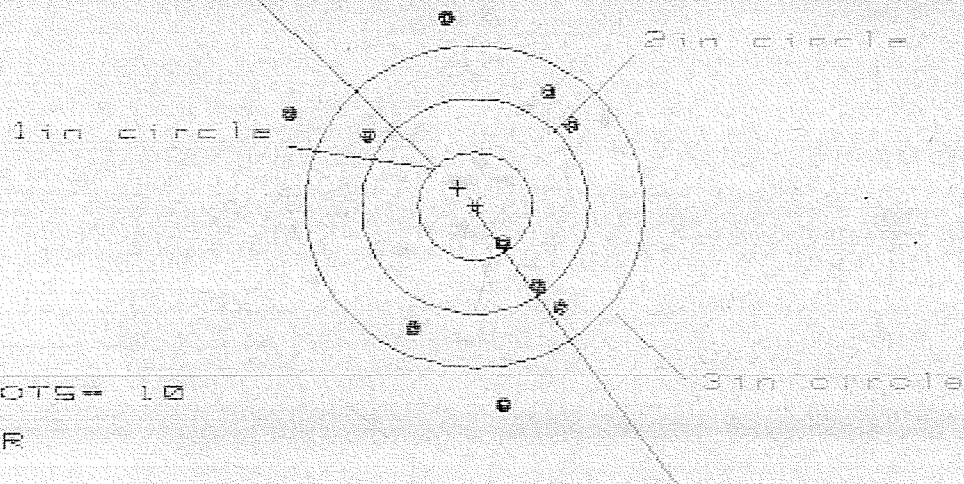
PATTERN #	1	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.156	1.188	1.199
MINIMUM X	-1.061	-1.029	-1.018
MAXIMUM Y	1.634	1.061	.903
MINIMUM Y	-1.440	-1.258	-1.383
CENTROID X	.005	-.027	-.038
CENTROID Y	-.021	-.203	-.045
POA TO CENTROID in.	.022	.204	.059
MIN RADIUS	.596	.680	.593
MEAN RADIUS	1.087	1.019	.972
MAX RADIUS	1.660	1.342	1.352
HORIZONTAL SPREAD	2.217	2.217	2.217
VERTICAL SPREAD	3.074	2.319	2.206
EXTREME SPREAD	3.084	2.393	2.354
NUMBER IN ONE INCH CIRCLE =		0	
NUMBER IN TWO INCH CIRCLE =		5	
NUMBER IN THREE INCH CIRCLE =		9	

13 Dec 1991

FILE:/PATTERNING/CENTERFIRE_PATT/06565673.1

CENTERFIRE PATTERNS # 2

POA



OF SHOTS = 10

IN CIR

1in = 1

2in = 2

3in = 7

HS = 2.541

VS = 3.539

GS = 3.569

CENTROID #

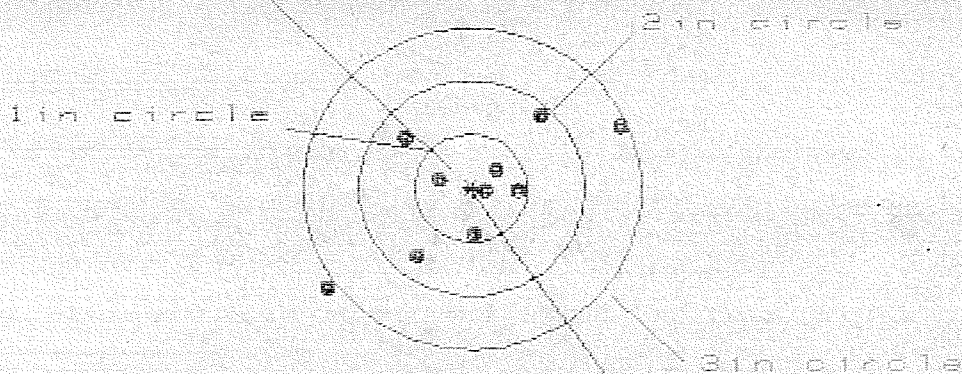
PATTERN #	2	2	2
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.896	.713	.721
MINIMUM X	-1.645	-1.108	-1.108
MAXIMUM Y	1.727	1.825	1.610
MINIMUM Y	-1.812	-1.714	-1.281
CENTROID X	.149	.332	.324
CENTROID Y	-.165	-.263	-.048
POA TO CENTROID in.	.222	.423	.328
MIN RADIUS	.454	.282	.492
MEAN RADIUS	1.280	1.174	1.119
MAX RADIUS	1.866	1.867	1.656
HORIZONTAL SPREAD	2.541	1.821	1.821
VERTICAL SPREAD	3.539	3.539	2.891
EXTREME SPREAD	3.569	3.569	2.915
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	2		
NUMBER IN THREE INCH CIRCLE =	7		

13 Dec 1991

FILE:/PATTERNING/CENTERFIRE_PATT/06665673.1

CENTERFIRE PATTERNS # 3

POA



OF SHOTS= 10

IN CIR

1in = 5

2in = 8

3in = 9

HS= 2.557

VS= 1.569

GS= 2.944

CENTROID #

PATTERN #	3		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.312	1.173	.633
MINIMUM X	-1.245	-.755	-.608
MAXIMUM Y	.654	.552	.607
MINIMUM Y	-.915	-.755	-.700
CENTROID X	-.016	.123	-.024
CENTROID Y	.020	.122	.067
POA TO CENTROID in.	.026	.173	.071
MIN RADIUS	.077	.125	.106
MEAN RADIUS	.703	.600	.509
MAX RADIUS	1.546	1.254	.877
HORIZONTAL SPREAD	2.557	1.928	1.241
VERTICAL SPREAD	1.569	1.307	1.307
EXTREME SPREAD	2.944	2.175	1.727
NUMBER IN ONE INCH CIRCLE	=	5	
NUMBER IN TWO INCH CIRCLE	=	8	
NUMBER IN THREE INCH CIRCLE	=	9	

13 Dec 1991

FILE:/PATTERNING/CENTERFIRE_PATT/08665873.1

CENTERFIRE PATTERNS # 4

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS = 10

IN CIR

1in = 3

2in = 6

3in = 10

HS= 2.316

VS= 2.232

GS= 2.548

PATTERN #	:	4	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.333	1.052	1.009
MINIMUM X	:	-.983	-.835	-.878
MAXIMUM Y	:	1.185	1.249	.914
MINIMUM Y	:	-1.047	-.983	-.827
CENTROID X	:	-.024	-.172	-.129
CENTROID Y	:	-.092	-.156	-.312
POA TO CENTROID in.	:	.095	.232	.338
MIN RADIUS	:	.138	.024	.163
MEAN RADIUS	:	.858	.750	.668
MAX RADIUS	:	1.454	1.324	1.181
HORIZONTAL SPREAD	:	2.316	1.887	1.887
VERTICAL SPREAD	:	2.232	2.232	1.741
EXTREME SPREAD	:	2.548	2.548	2.326
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		10	

13 Dec 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8685673.1

CENTERFIRE PATTERNS # 5

POA

1in circle

2in circle

3in circle

OF SHOTS = 10

IN CIR

1in = 2

2in = 7

3in = 9

HS = 1.625

VS = 2.812

CS = 2.833

CENTROID #

PATTERN #	5		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.743	.726	.730
MINIMUM X	-.882	-.899	-.895
MAXIMUM Y	1.572	1.555	1.589
MINIMUM Y	-1.240	-1.065	-.870
CENTROID X	.028	.045	.041
CENTROID Y	-.087	-.262	-.457
POA TO CENTROID in.	.092	.266	.450
MIN RADIUS	.272	.433	.539
MEAN RADIUS	.910	.820	.717
MAX RADIUS	1.580	1.555	.986
HORIZONTAL SPREAD	1.625	1.625	1.625
VERTICAL SPREAD	2.812	2.620	1.459
EXTREME SPREAD	2.833	2.624	1.712
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		7	
NUMBER IN THREE INCH CIRCLE =		9	