

C6636011

MODEL 700™ M24

Model SMS™

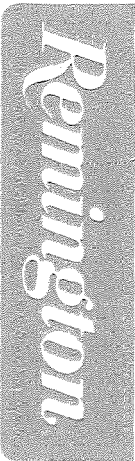
Action

Barrel Length

Capacity

Order No. 5716

* Includes 1 in chamber.



Remington
MODEL 700TM M24

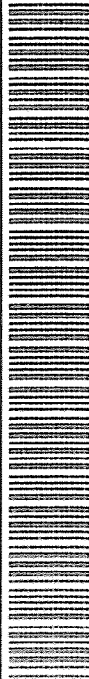
DUPONT
REG. U.S. PAT. & TM. OFF.

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

SERIAL NO.
C6636011

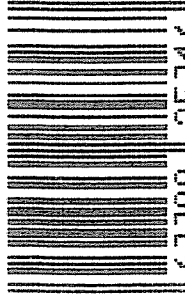
ORDER NO.
5716

MADE IN U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada Marque Deposee.



5716 C6636011

LPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6636011

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		5/1/91	KS
600	Proof		5/1/91	KS
607	Check Headspace		5/1/91	KS
610	Dis-assemble Gun		5/1/91	KS
612	Magnaflux Barrel Action	5 8	9 1	Ked
	Magnaflux Bolt	5 8	9 1	Ked
615	Rollmark Caliber		5 1	GS
617	Drill and Tap Sight Holes	5 15	9 1	KS
618	Polish Barrel	5 15	9 1	KS
620	Apply Coatings (Barrel Action)		5-31-91	KS
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		6-6-91	KS
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		6-6-91	KS
	C) Inspect Ejector Hole for Chamfer		6-6-91	KS
	D) Oil Firing Pin Ass'y		6-6-91	KS
	E) Adjust Trigger Pull to Min Setting and Stake		6-7-91	KS

op. #	OP. NAME BARBER - M24 0036644	READINGS					DATE	INIT
625 cont.	F) Safety On Force	6	6	6			6-7-91	JL
	G) Safety Off Force	4	4	4			6-7-91	JL
	H) Trigger Pull Test & Retainability						6-7-91	JL
	I) Firing Pin Indent	.0205	.0205	.0205			6-7-91	JL
	J) Assemble Stock						6-7-91	KS
	K) Assemble Swivel Studs						6-12-91	A
	L) Attach Front and Rear Sight Assemblies						6-7-91	KS
	M) Iron Sight Alignment						6-7-91	KS
	N) Detach Front & Rear Sights & place in numbered container						6-7-91	KS
	O) Attach Scope to Rifle						6-7-91	KS
	P) Detach & Attach Scope 20 Times						6-7-91	KS
640	Gallery Target & Test						6/10/91	KT
	A) Time							KT
	B) Malfunctions							KT
	C) Pierced Primers							KT
	D) Optical Clarity of Scope							KT
645	Inspect for Live Ammo						6/10/91	KT
655	Final Inspection							
	A) Headspace						6-12-91	A
	B) Trigger Pull	2.57	2.55	2.47	2.46	2.41	6-12-91	JL
	C) Function						6-12-91	AC
660	Pack						6-19-91	N

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. 0-6636011

DATE 6-7-91

TESTER J21

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.57	2.70	2.50	2.57	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.50	2.58	2.56	2.55	
PULL #3	2.58	2.59	2.55	2.47	
PULL #4	2.45	2.57	2.59	2.46	
PULL #5	2.55	2.55	2.55	2.41	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.24	3.33		
PULL #2	3.37	3.18		
PULL #3	3.28	3.29		
PULL #4	3.20	3.19		
PULL #5	3.28	3.30		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.39	4.54		4.14
PULL #2	4.19	4.69		4.57
PULL #3	4.58	4.26		4.69
PULL #4	4.23	4.48		4.25
PULL #5	4.48	4.67		4.23
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6636011
10 Jun 1991

CENTROIDAL DISTANCES

0 TO	1	.307688
1 TO	2	.326339
1 TO	3	.390006
1 TO	4	.654426
1 TO	5	.485412

$\frac{4}{5} \frac{1}{2}$ <----POA

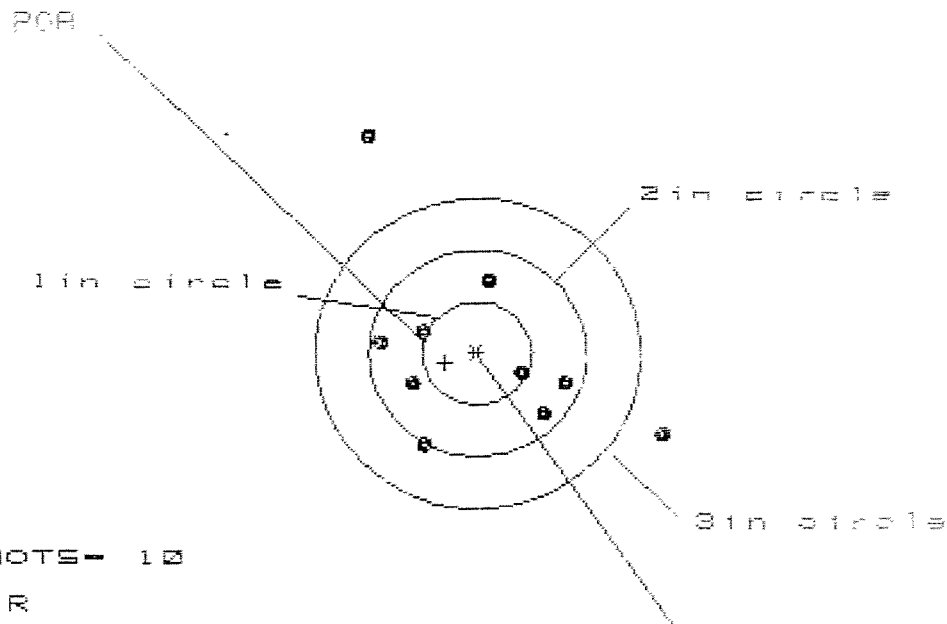
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0306
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0842
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0895879
THE AMR FOR THIS RIFLE IS: 1.011

10 Jun 1991

FILE:/PATTERNING/CENTERFIRE_PATT/08689011

CENTERFIRE PATTERNS

1



OF SHOTS - 10

IN CIR

1 in - 1

2 in - 7

3 in - 8

HS - 2.747

VS - 3.031

GS - 4.060

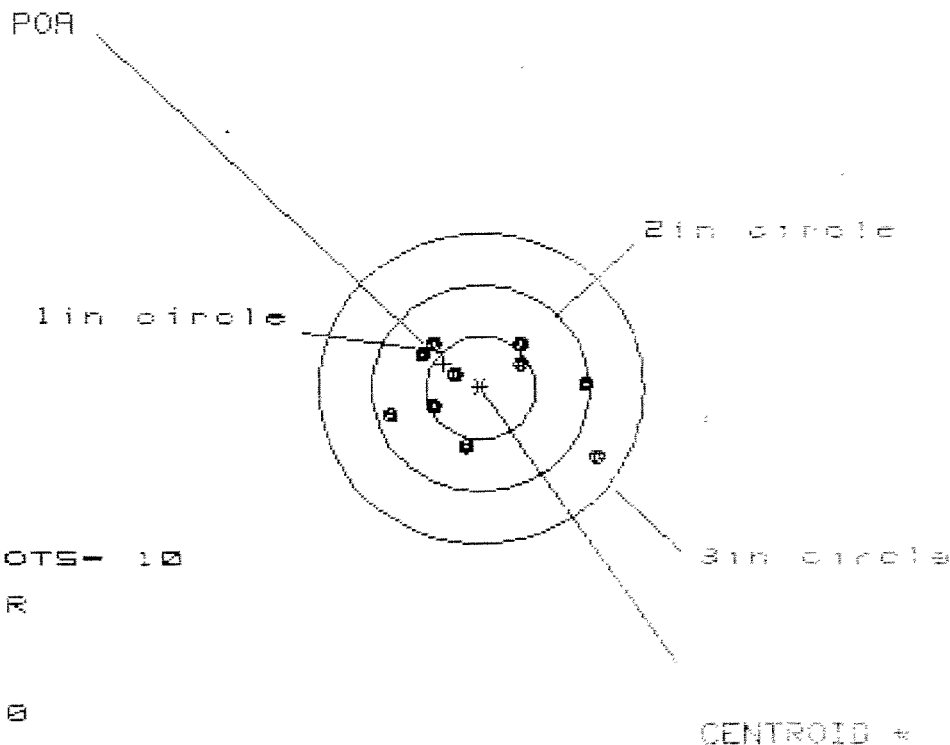
CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.705	1.589	.853
MINIMUM X	-1.042	-.984	-.785
MAXIMUM Y	2.160	.928	.854
MINIMUM Y	-.871	-.631	-.705
CENTROID X	.296	.412	.213
CENTROID Y	.084	-.156	-.082
POA TO CENTROID in.	.308	.440	.228
MIN RADIUS	.475	.298	.501
MEAN RADIUS	1.025	.845	.726
MAX RADIUS	2.398	1.695	.890
HORIZONTAL SPREAD	2.747	2.573	1.638
VERTICAL SPREAD	3.031	1.559	1.559
EXTREME SPREAD	4.060	2.724	1.678
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	7		
NUMBER IN THREE INCH CIRCLE =	8		

10 Jun 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6836011

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1in - 3

2in - 9

3in = 10

HS= 1.930

VS= 1.140

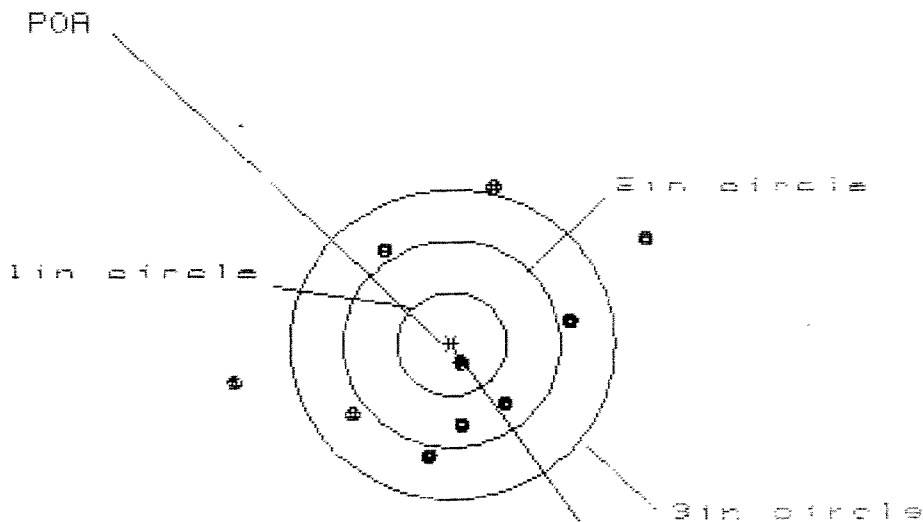
GS= 1.970

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.051	1.033	.937
MINIMUM X	:	-.879	-.762	-.536
MAXIMUM Y	:	.480	.407	.365
MINIMUM Y	:	-.660	-.667	-.709
CENTROID X	:	.335	.218	.314
CENTROID Y	:	-.240	-.167	-.125
POA TO CENTROID in.	:	.412	.275	.338
1IN RADIUS	:	.311	.173	.247
MEAN RADIUS	:	.671	.575	.548
MAX RADIUS	:	1.241	1.035	.944
HORIZONTAL SPREAD	:	1.930	1.795	1.473
VERTICAL SPREAD	:	1.140	1.074	1.074
EXTREME SPREAD	:	1.970	1.814	1.501
NUMBER IN ONE INCH CIRCLE =			3	
NUMBER IN TWO INCH CIRCLE =			9	
NUMBER IN THREE INCH CIRCLE =			10	

18 Jun 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8596011

CENTERFIRE PATTERNS # 3



OF SHOTS - 10

IN CIR

1in - 1

2in - 3

3in = 7

HS= 3.768

VS= 2.619

GS= 4.016

CENTROID #

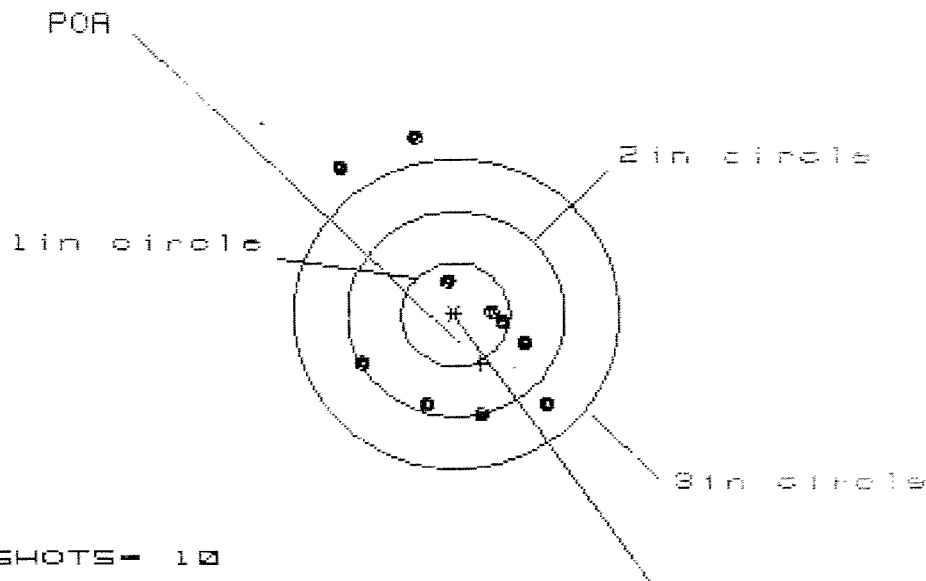
PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.749	1.525	1.682
MINIMUM X	:	-2.019	-1.180	-0.990
MAXIMUM Y	:	1.555	1.511	1.630
MINIMUM Y	:	-1.064	-1.108	-0.989
CENTROID X	:	-0.683	.141	-0.049
CENTROID Y	:	.176	.220	.101
POA TO CENTROID in.	:	.195	.262	.112
MIN RADIUS	:	.207	.295	.126
MEAN RADIUS	:	1.189	1.088	.955
MAX RADIUS	:	2.058	1.799	1.662
HORIZONTAL SPREAD	:	3.768	2.705	2.872
VERTICAL SPREAD	:	2.619	2.619	2.619
EXTREME SPREAD	:	4.018	3.203	2.689
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		7	

18 Jun 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C665601

CENTERFIRE PATTERNS

4



OF SHOTS- 10

IN CIR

1in = 3

2in = 7

3in = 8

HS= 1.870

VS= 2.685

GS= 2.962

CENTROID *

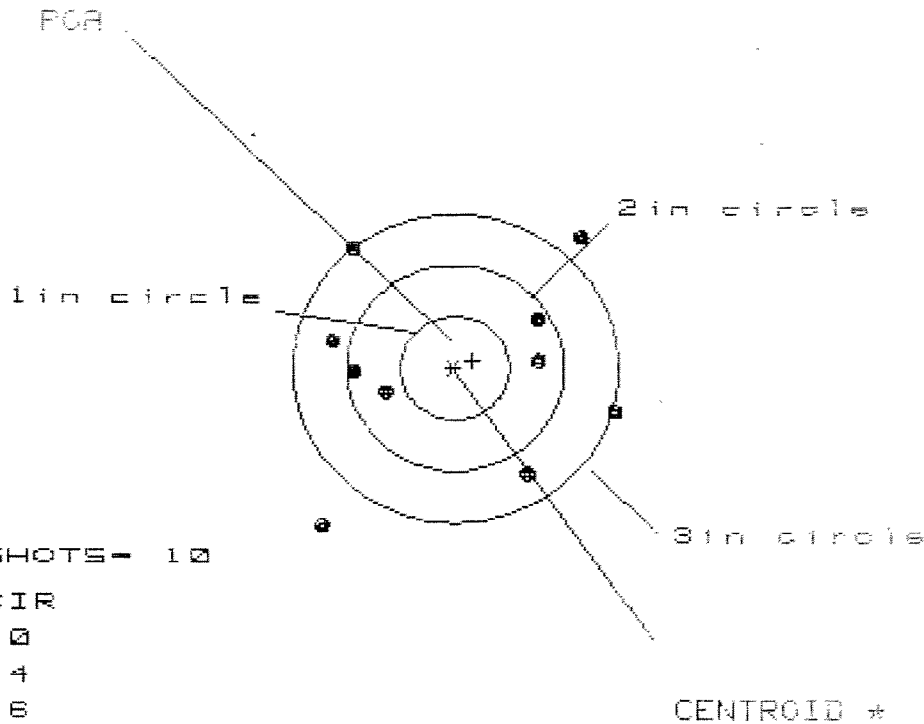
PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.844	.801	.667
MINIMUM X	:	-1.026	-1.069	-.997
MAXIMUM Y	:	1.754	1.593	.742
MINIMUM Y	:	-.932	-.737	-.527
CENTROID X	:	-.231	-.188	-.054
CENTROID Y	:	.472	.277	.077
POR TO CENTROID in.	:	.525	.334	.094
MIN RADIUS	:	.350	.387	.418
MEAN RADIUS	:	.940	.809	.632
MAX RADIUS	:	1.797	1.919	1.800
HORIZONTAL SPREAD	:	1.870	1.870	1.664
VERTICAL SPREAD	:	2.685	2.330	1.200
EXTREME SPREAD	:	2.962	2.962	1.719
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		8	

18 Jun 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6636651

CENTERFIRE PATTERNS

5



OF SHOTS- 10

IN CIR

1 in - 0

2 in - 4

3 in - 6

HS- 2.663

VS- 2.740

GS- 3.640

PATTERN #	5
SHOTS (BEST OF)	10
MAXIMUM X	1.460
MINIMUM X	-1.203
MAXIMUM Y	1.224
MINIMUM Y	-1.516
CENTROID X	-.164
CENTROID Y	-.071
POA TO CENTROID in.	.179
MIN RADIUS	.672
MEAN RADIUS	1.232
MAX RADIUS	1.935
HORIZONTAL SPREAD	2.663
VERTICAL SPREAD	2.740
EXTREME SPREAD	3.640
NUMBER IN ONE INCH CIRCLE =	0
NUMBER IN TWO INCH CIRCLE =	4
NUMBER IN THREE INCH CIRCLE =	6

BARBER - M24 0036652
INTERCHANGEABILITY

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6636011
17 Jun 1991

CENTROIDAL DISTANCES

0 TO	1	.332399
1 TO	2	.536196
1 TO	3	.390309
1 TO	4	.729079
1 TO	5	.488185

154 <----POA

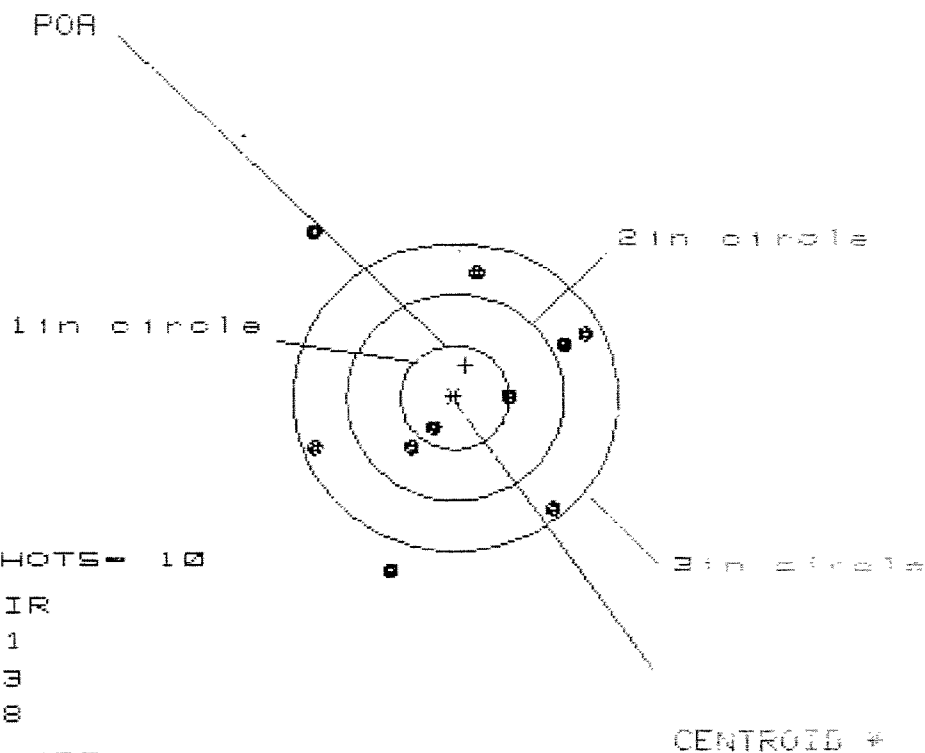
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .203
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0268
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .204761
THE AMR FOR THIS RIFLE IS: .9648

17 Jun 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8836011.1

CENTERFIRE PATTERNS

1



OF SHOTS - 10

IN CIR

1 in = 1

2 in = 3

3 in = 8

HS = 2.496

VS = 3.297

GS = 3.401

CENTROID *

PATTERN #	:	1	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.202	1.058	.969
MINIMUM X	:	-1.294	-1.438	-1.527
MAXIMUM Y	:	1.603	1.348	1.159
MINIMUM Y	:	-1.694	-1.516	-1.853
CENTROID X	:	-.100	.044	.133
CENTROID Y	:	-.317	-.495	-.306
POA TO CENTROID in.	:	.332	.497	.333
MIN RADIUS	:	.353	.376	.296
MEAN RADIUS	:	1.170	1.050	.955
MAX RADIUS	:	2.057	1.677	1.520
HORIZONTAL SPREAD	:	2.496	2.496	2.496
VERTICAL SPREAD	:	3.297	2.864	2.212
EXTREME SPREAD	:	3.401	2.977	2.786
NUMBER IN ONE INCH CIRCLE =	:	1		
NUMBER IN TWO INCH CIRCLE =	:	3		
NUMBER IN THREE INCH CIRCLE =	:	8		

17 Jun 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C863601.1

CENTERFIRE PATTERNS

2

POR

1 in circle

2 in circle

3 in circle

OF SHOTS- 10

IN CIR

1 in - 0

2 in - 7

3 in = 9

HS= 2.535

VS= 1.795

GS= 2.732

CENTROID *

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.364	.953	.826
MINIMUM X	:	-1.171	-1.020	-.752
MAXIMUM Y	:	.947	.895	.965
MINIMUM Y	:	-.848	-.742	-.672
CENTROID X	:	.205	.054	.181
CENTROID Y	:	.124	.018	-.052
POR TO CENTROID in.	:	.239	.057	.188
MIN RADIUS	:	.649	.543	.471
MEAN RADIUS	:	.940	.838	.781
MAX RADIUS	:	1.661	1.166	.979
HORIZONTAL SPREAD	:	2.535	1.973	1.578
VERTICAL SPREAD	:	1.795	1.637	1.637
EXTREME SPREAD	:	2.732	1.998	1.887
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	

17 Jun 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6636601.1

CENTERFIRE PATTERNS

3

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 9

HS= 2.069

VS= 2.909

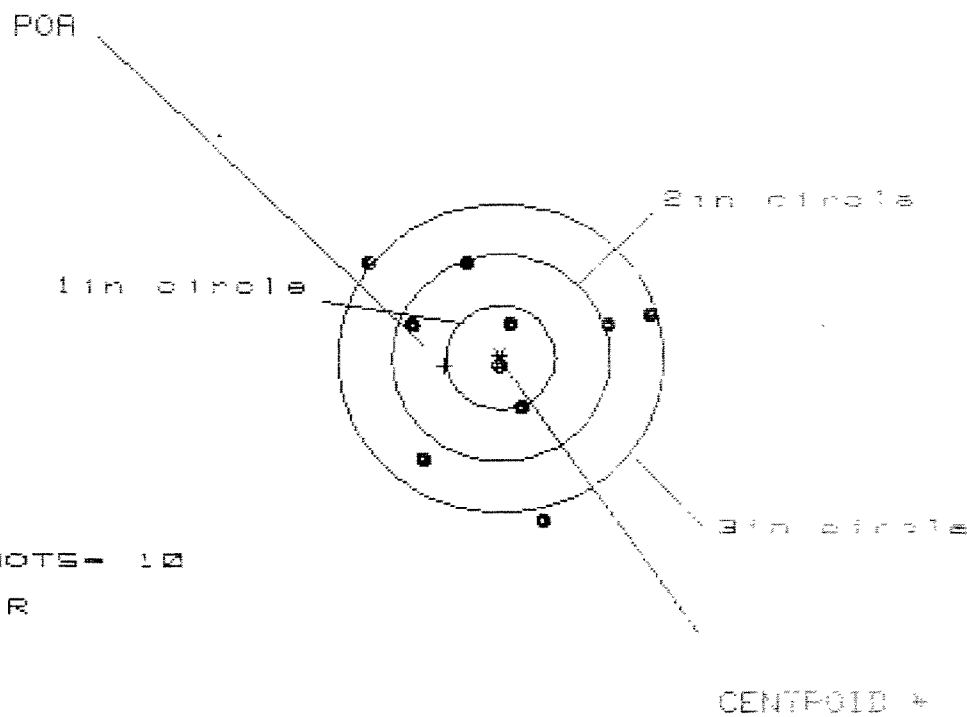
GS= 3.143

PATTERN #	3		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.050	.648	.645
MINIMUM X	-1.020	-.903	-.906
MAXIMUM Y	1.441	1.278	1.234
MINIMUM Y	-1.468	-1.036	-.876
CENTROID X	.229	.112	.115
CENTROID Y	-.107	.056	-.103
POA TO CENTROID in.	.252	.125	.155
MIN RADIUS	.102	.201	.045
MEAN RADIUS	.938	.848	.764
MAX RADIUS	1.805	1.278	1.302
HORIZONTAL SPREAD	2.069	1.551	1.551
VERTICAL SPREAD	2.909	2.314	2.111
EXTREME SPREAD	3.143	2.346	2.248
NUMBER IN ONE INCH CIRCLE =		1	
NUMBER IN TWO INCH CIRCLE =		6	
NUMBER IN THREE INCH CIRCLE =		9	

17 Jun 1991

FILE: /PATTERNING/CENTERFIRE_PATT/C863601.1

CENTERFIRE PATTERNS # 4



OF SHOTS - 10

IN CIR

1 in = 2

2 in = 4

3 in = 8

HS = 2.535

VS = 2.509

GS = 2.910

PATTERN #	4	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.348	1.389	1.245
MINIMUM X	-1.187	-1.146	-0.893
MAXIMUM Y	.964	.792	.885
MINIMUM Y	-1.545	-1.169	-1.075
CENTROID X	.516	.475	.619
CENTROID Y	.073	.245	.151
POA TO CENTROID in.	.521	.535	.637
MIN RADIUS	.115	.135	.209
MEAN RADIUS	.956	.879	.809
MAX RADIUS	1.587	1.405	1.352
HORIZONTAL SPREAD	2.535	2.535	2.138
VERTICAL SPREAD	2.509	1.961	1.961
EXTREME SPREAD	2.910	2.591	2.484
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	8		

17 Jun 1991

FILE:/PATTERNING/CENTERFIRE_PATT/0036657.1

CENTERFIRE PATTERNS

5

POA

1in circle

2in circle

3in circle

OF SHOTS - 10

IN CIR

1in - 5

2in - 6

3in - 9

HS = 2.239

VS = 2.357

GS = 3.022

CENTROID

PATTERN #	5
SHOTS (BEST OF)	10
MAXIMUM X	.942
MINIMUM X	-1.298
MAXIMUM Y	.891
MINIMUM Y	-1.466
CENTROID X	.165
CENTROID Y	.093
POA TO CENTROID in.	.169
MIN RADIUS	.192
MEAN RADIUS	.800
MAX RADIUS	1.619
HORIZONTAL SPREAD	2.239
VERTICAL SPREAD	2.357
EXTREME SPREAD	3.022
NUMBER IN ONE INCH CIRCLE	5
NUMBER IN TWO INCH CIRCLE	6
NUMBER IN THREE INCH CIRCLE	9