

C6523498

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

Serial Number: C6523498

[illegible]

BARBER - M24 **M2400029171**

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6523498.___0
FILE DATE AND TIME: 01/18/2006 14:39

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.002
The Average Y Centroid of the Five Target Set:	0.088
The Average Point of Impact of the Five Target Set:	0.088
The Average Mean Radius of the Five Target Set:	0.842
The Distance from POA to Centroid Target #1:	0.185
The Distance from Centroid Target #2 to Centroid Target #1:	0.781
The Distance from Centroid Target #3 to Centroid Target #1:	0.168
The Distance from Centroid Target #4 to Centroid Target #1:	0.176
The Distance from Centroid Target #5 to Centroid Target #1:	0.254

SERIAL NUMBER: C6523498. __0

TARGET NUMBER: 1

FILE DATE: 01/18/2006

FILE TIME: 14:39

POINT#	X	Y
1:	0.849	0.423
2:	0.126	-2.041
3:	-0.242	-1.691
4:	-0.393	-1.380
5:	-0.406	0.143
6:	-0.109	0.383
7:	-0.352	0.514
8:	-0.417	0.717
9:	0.361	0.456
10:	0.347	0.640

X CENTROID: -0.024

Y CENTROID: -0.184

POA TO CENTROID: 0.185

HORZ SPREAD: 1.266

VERT SPREAD: 2.758

GROUP SPREAD: 2.811

MIN RADIUS: 0.503

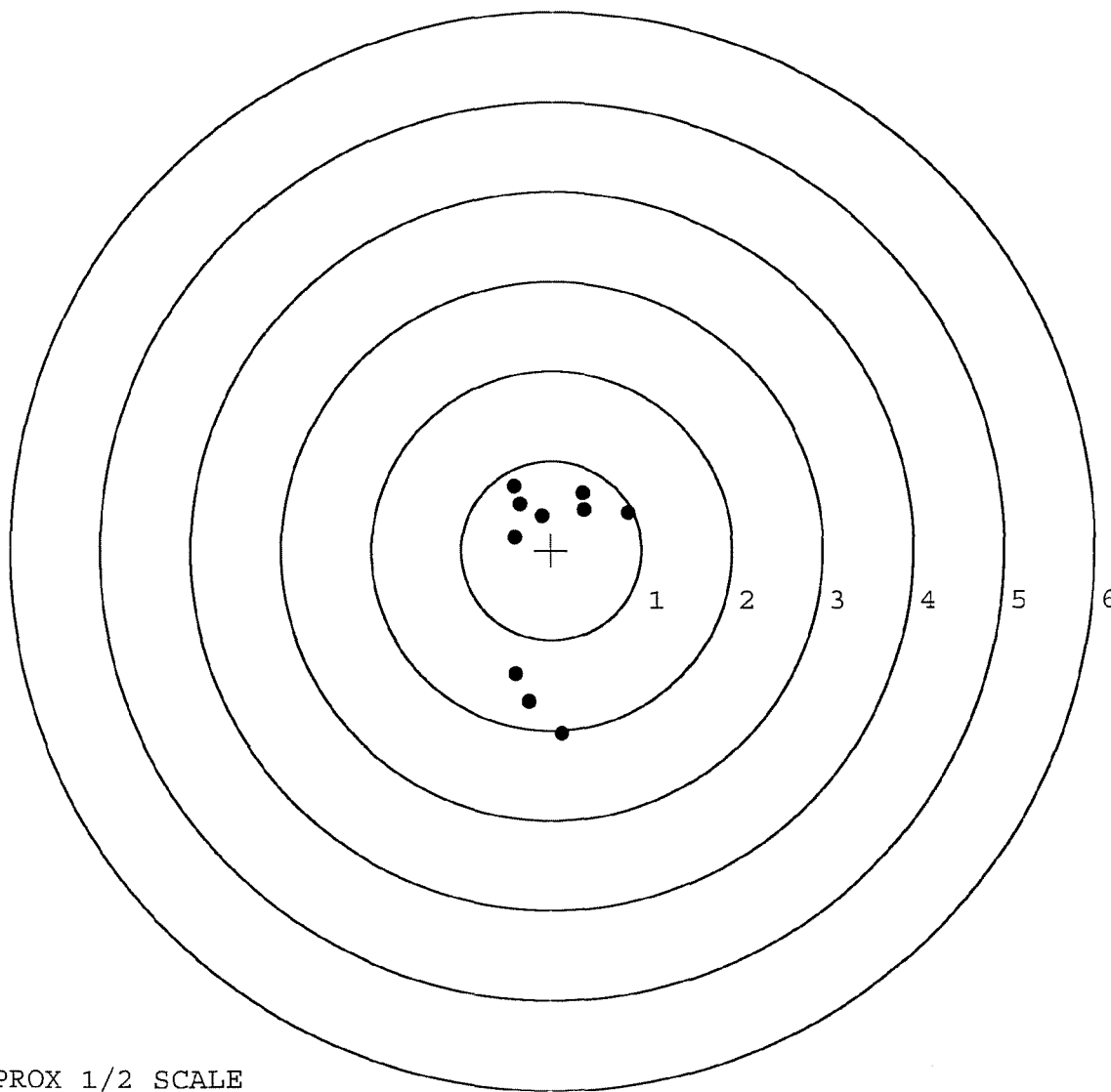
MAX RADIUS: 1.863

MEAN RADIUS: 1.018

IN 1 IN DIAMETER: 0

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 8



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523498. 0

TARGET NUMBER: 2

FILE DATE: 01/18/2006

FILE TIME: 14:39

X CENTROID: 0.071

Y CENTROID: 0.592

POA TO CENTROID: 0.596

HORZ SPREAD: 1.697

VERT SPREAD: 4.753

GROUP SPREAD: 5.009

MIN RADIUS: 0.585

MAX RADIUS: 3.322

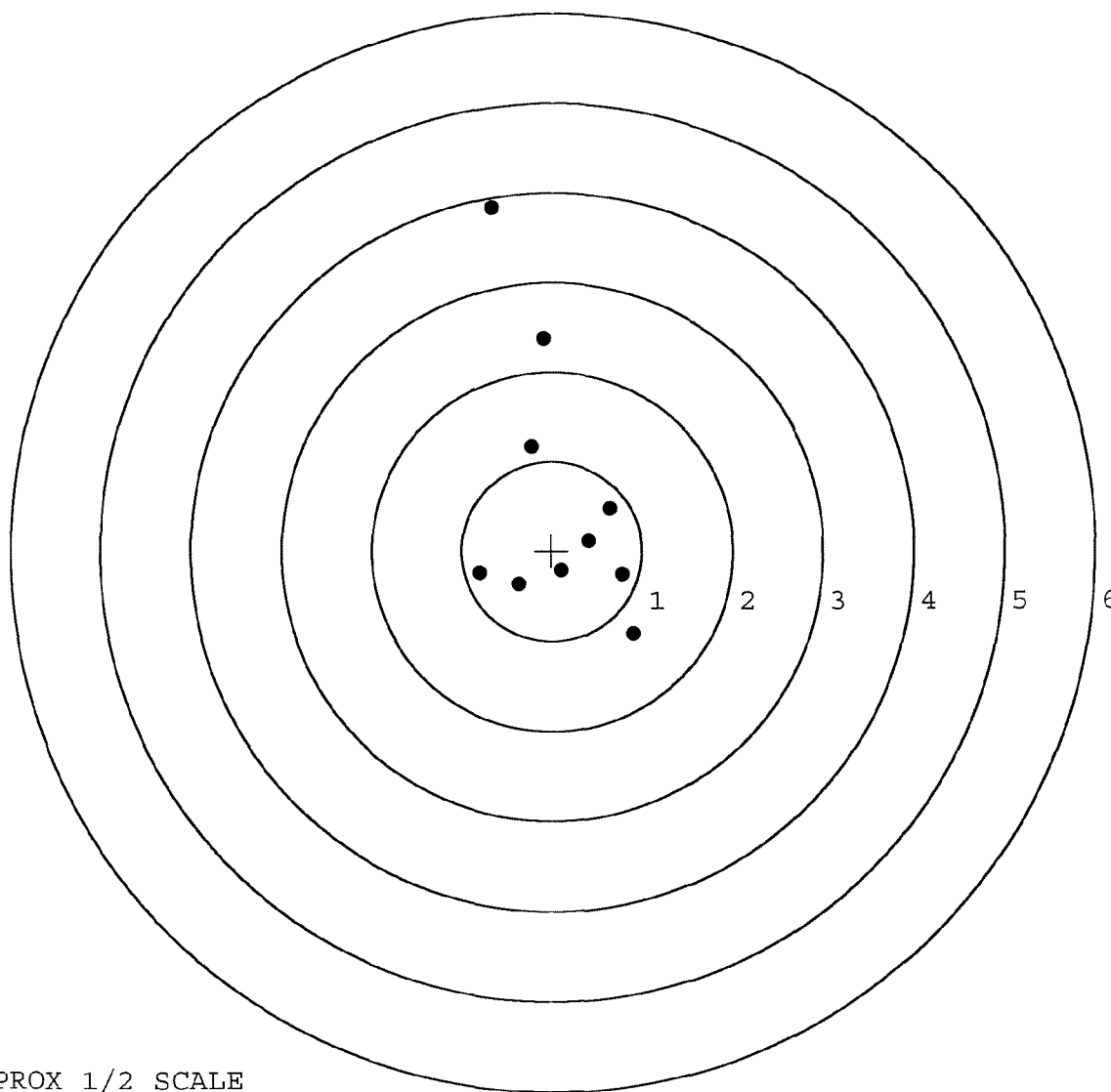
MEAN RADIUS: 1.285

IN 1 IN DIAMETER: 0

IN 2 IN DIAMETER: 4

in 3 IN DIAMETER: 7

POINT#	X	Y
1:	0.902	-0.924
2:	0.781	-0.263
3:	0.644	0.478
4:	0.417	0.117
5:	0.112	-0.223
6:	-0.360	-0.380
7:	-0.795	-0.252
8:	-0.220	1.166
9:	-0.096	2.372
10:	-0.678	3.829



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523498. __0

TARGET NUMBER: 3

FILE DATE: 01/18/2006

FILE TIME: 14:39

X CENTROID: -0.063

Y CENTROID: -0.020

POA TO CENTROID: 0.066

HORZ SPREAD: 1.833

VERT SPREAD: 1.670

GROUP SPREAD: 2.302

MIN RADIUS: 0.008

MAX RADIUS: 1.370

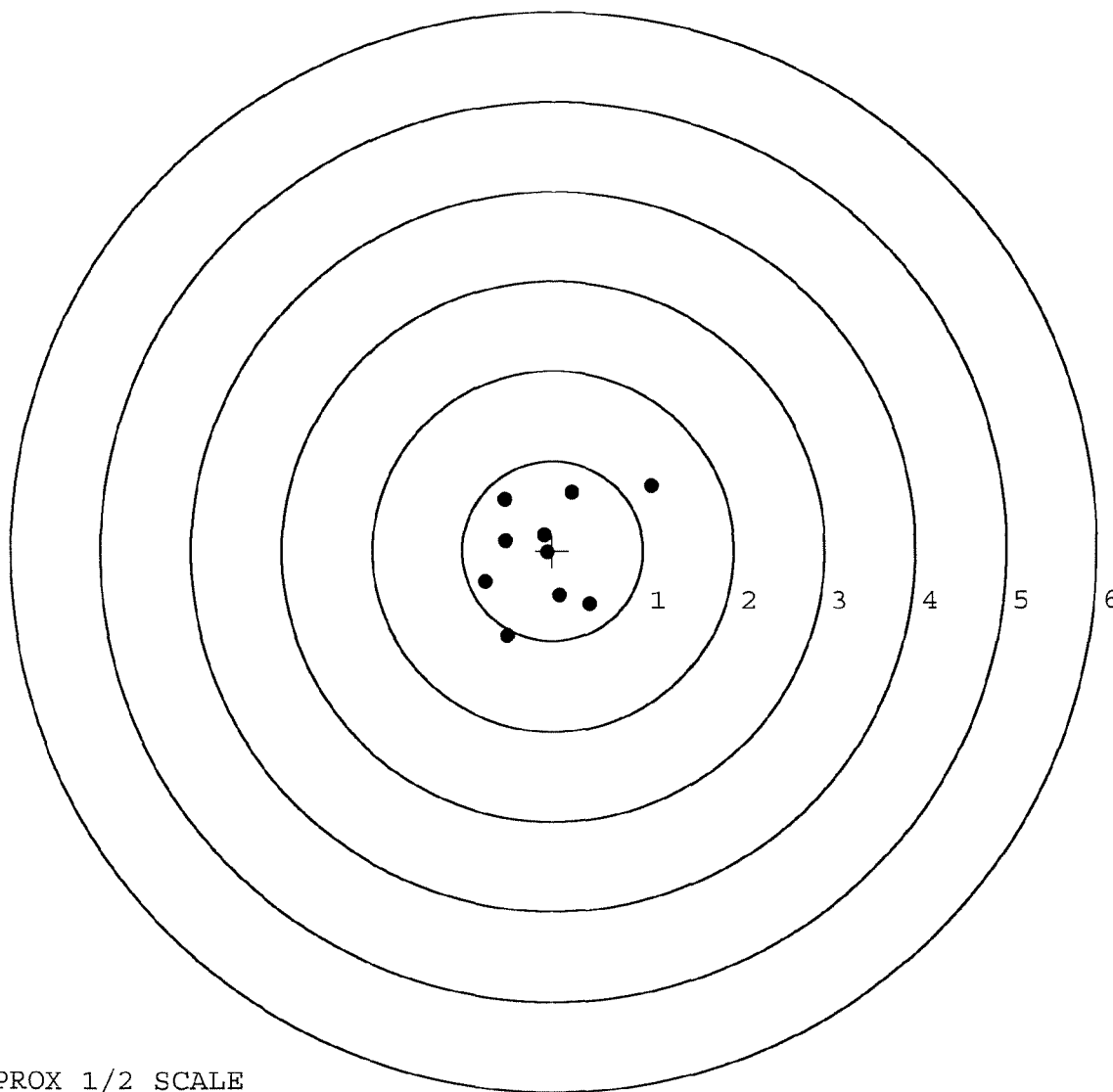
MEAN RADIUS: 0.655

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 8

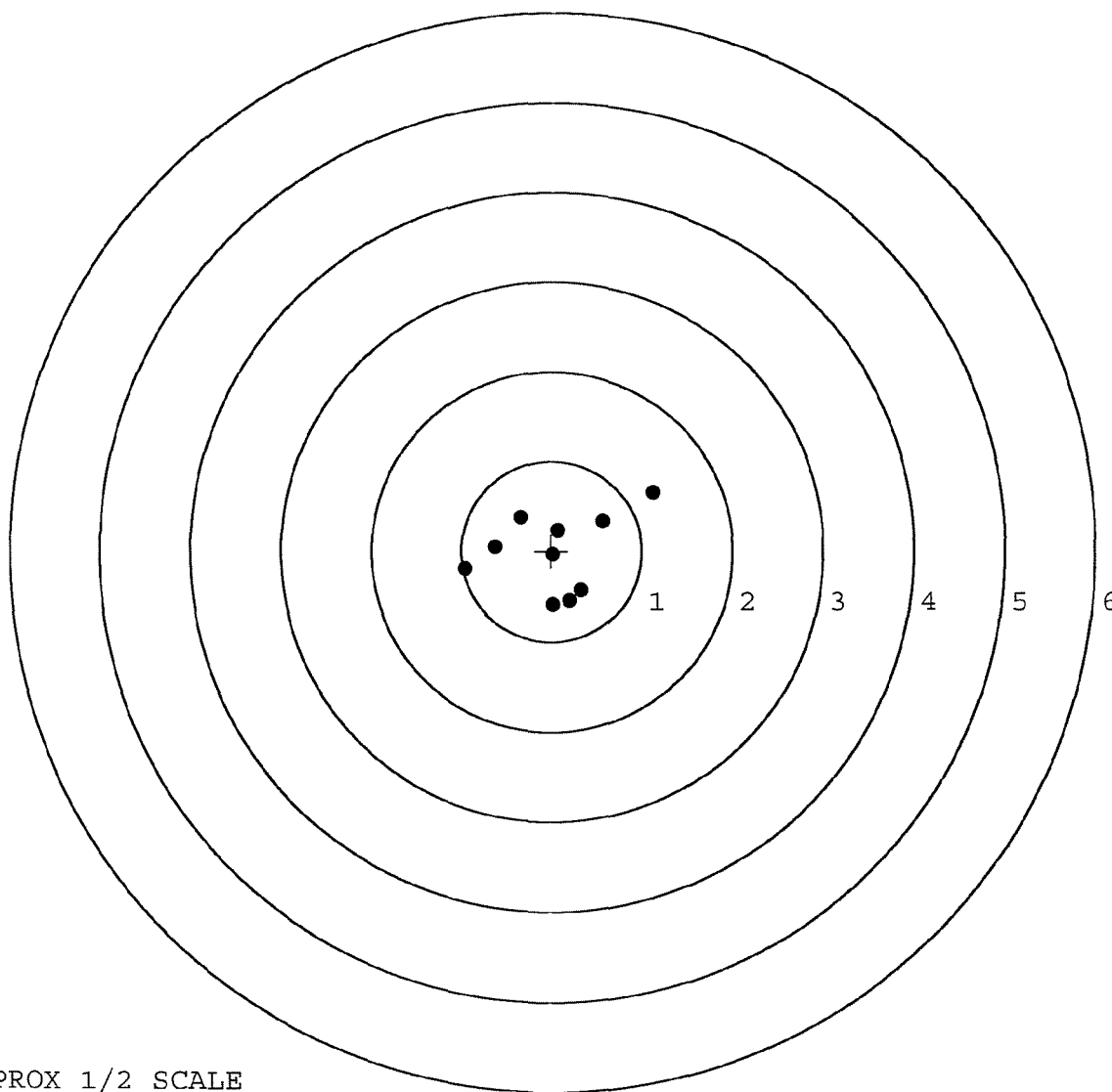
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.416	-0.595
2:	0.082	-0.501
3:	-0.496	-0.947
4:	1.088	0.723
5:	0.219	0.645
6:	-0.089	0.168
7:	-0.519	0.111
8:	-0.745	-0.349
9:	-0.527	0.569
10:	-0.056	-0.025



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523498. 0	POINT#	X	Y
TARGET NUMBER: 4	1:	0.330	-0.439
FILE DATE: 01/18/2006	2:	0.018	-0.594
FILE TIME: 14:39	3:	1.125	0.657
	4:	0.572	0.330
X CENTROID: 0.042	5:	0.074	0.231
Y CENTROID: -0.020	6:	0.020	-0.042
POA TO CENTROID: 0.047	7:	-0.341	0.368
HORZ SPREAD: 2.083	8:	-0.620	0.044
VERT SPREAD: 1.251	9:	-0.958	-0.204
GROUP SPREAD: 2.254	10:	0.201	-0.551
MIN RADIUS: 0.031			
MAX RADIUS: 1.277			
MEAN RADIUS: 0.606			
# IN 1 IN DIAMETER: 2			
# IN 2 IN DIAMETER: 8			
# in 3 IN DIAMETER: 10			



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523498. __0

TARGET NUMBER: 5

FILE DATE: 01/18/2006

FILE TIME: 14:39

POINT#	X	Y
1:	0.583	0.559
2:	0.264	0.406
3:	-0.249	0.552
4:	-0.472	0.234
5:	-0.618	0.390
6:	-0.867	0.489
7:	0.525	-0.361
8:	0.344	-0.475
9:	0.204	-0.563
10:	-0.073	-0.530

X CENTROID: -0.036

Y CENTROID: 0.070

POA TO CENTROID: 0.079

HORZ SPREAD: 1.450

VERT SPREAD: 1.122

GROUP SPREAD: 1.631

MIN RADIUS: 0.450

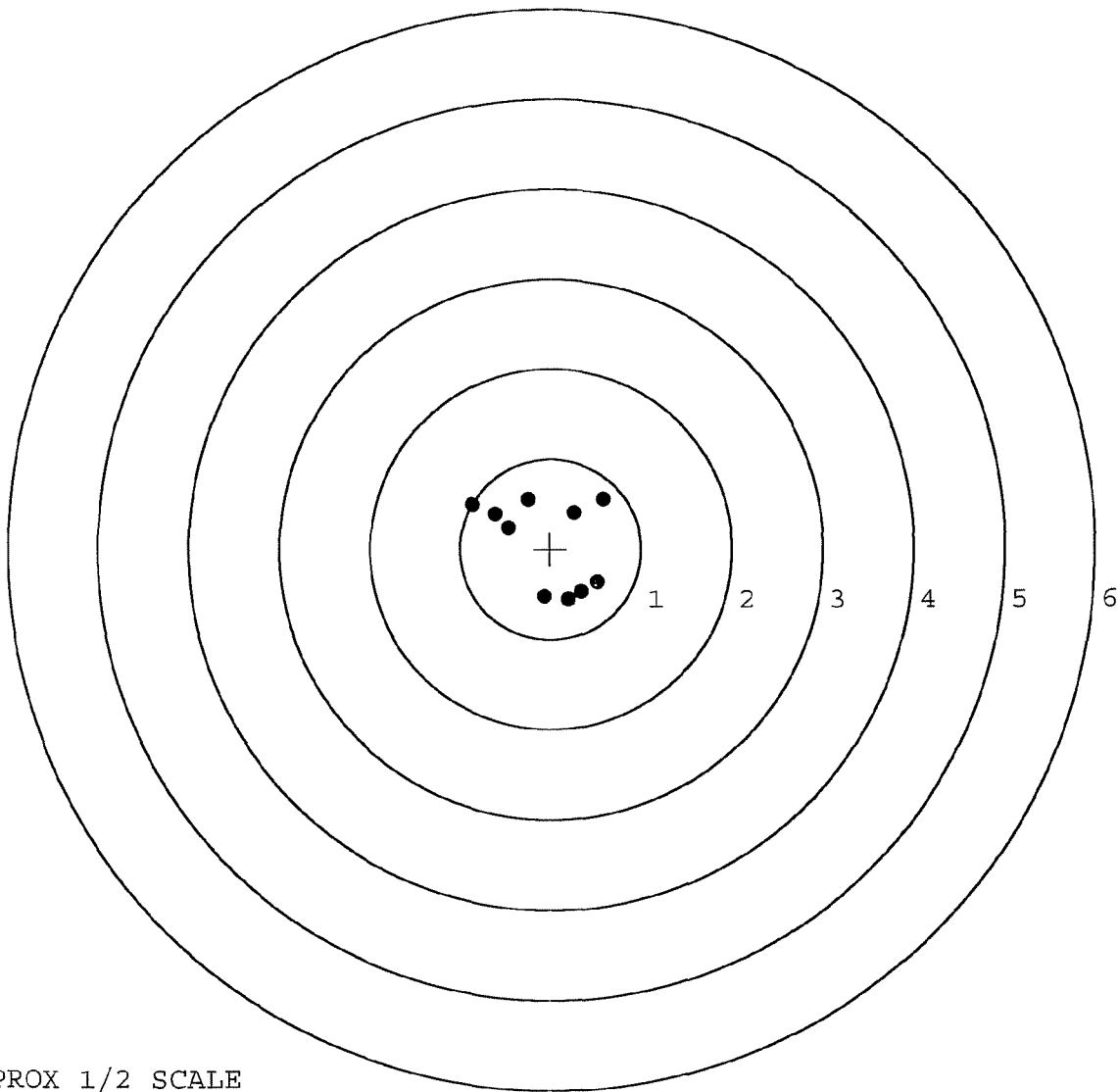
MAX RADIUS: 0.931

MEAN RADIUS: 0.648

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10



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 12-30-05TESTER TRW

	2.50 LBS INITIAL	2.50 LBS AFTER 50 CYCLES	FINAL TEST & TO RESET, 2.50 LBS		COMMENTS
PULL #1	2.46	2.44		2.75	
PULL #2	2.48	2.65		2.81	
PULL #3	2.25	2.41		2.30	
PULL #4	2.29	2.76		2.40	
PULL #5	2.62	2.63		2.32	
TOTAL	12.10	12.89		12.58	
AVERAGE	2.42	2.57		2.51	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES		COMMENTS
PULL #1	3.42	3.22		
PULL #2	3.38	3.20		
PULL #3	3.47	3.30		
PULL #4	3.49	3.43		
PULL #5	3.37	3.31		
TOTAL	17.13	16.46		
AVERAGE	3.42	3.29		

	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	4.45	4.24		4.39
PULL #2	4.38	4.31		4.21
PULL #3	4.45	4.47		4.32
PULL #4	4.58	4.42		4.43
PULL #5	4.30	4.42		4.31
TOTAL	22.16	21.86		21.66
AVERAGE	4.43	4.37		4.33

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-C-0149

R & E NUMBER	106045		
SERIAL NUMBER	C6523498		
LOG-IN DATE	1-4-06		
OPERATION.#	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	1-6-06	RTL
505	RE-BARREL	1-6-06	RTL
560	ASSEMBLE	1-6-06	RTL
600	PROOF	1-6-06	BC
605	CHECK HEADSPACE	1-6-06	AC
610	DIS-ASSEMBLE GUN	1-6-06	AC
612	MAGNAFLUX	1/10/06	Wend
510	DRILL AND TAP	1-10-06	TRW
615	ROLLMARK CALIBER	1-10-06	CW
618	ROTO-BLAST	1-10-06	LB
620	APPLY COATINGS	1/11	HP
625	FINAL ASSEMBLY	1-13-06	RTL
640	FUNCTION TEST AND	PASS FAIL	1-18-06 TRW
650	TARGET	PASS FAIL	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	1-18-06 TRW
670	FINAL INSPECTION		1-23-06 AC
	A) HEADSPACE	PASS FAIL	1-23-06 AC
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	2.44 2.44 2.45 2.44 2.44 A
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS	5 lbs 5 lbs 5 lbs A
	G) SAFETY OFF FORCE	2 LBS MIN	2 lbs 2 lbs 2 lbs A
	I) FIRING PIN INDENT	.020	
690	PACK		1-24-06 RA

Remington[®] **DUPONT**
REG. U.S. PAT. & TM. OFF.

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

MODEL 700TM M24

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

SERIAL NO.
C6523498

ORDER NO.
5716

Q1

5716 C6523498

UPC

0 47700 25716 7

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6523498

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		10/2/90	JS
600	Proof		10/2/90	JS
607	Check Headspace		10/2/90	JS
610	Dis-assemble Gun		10/2/90	JS
612	Magnaflux Barrel Action		10/5/90	KR
	Magnaflux Bolt		10/5/90	KR
615	Rollmark Caliber		10/5/90	GS
617	Drill and Tap Sight Holes		10/8/90	FB
618	Polish Barrel RB		10/9/90	WB
620	Apply Coatings (Barrel Action)		10-20-90	TJA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		10/21/90	WB
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		10/21/90	WB
	C) Inspect Ejector Hole for Chamfer		10/21/90	WB
	D) Oil Firing Pin Ass'y		10/21/90	WB
	E) Adjust Trigger Pull to Min Setting and Stake		11/2/90	JS

op. #	OP. NAME	READINGS			DATE	INIT		
625 cont.	F) Safety On Force	4 1/2	4 1/2	4 1/2	11/2/90	WB		
	G) Safety Off Force	2 1/4	2 1/4	2 1/4	11/2/90	WB		
	H) Trigger Pull Test & Retainability				11/2/90	JH		
	I) Firing Pin Indent	10215	.022	.022	11/2/90	WB		
	J) Assemble Stock				11/2/90	KA		
	K) Assemble Swivel Studs				11-28-90	JS		
	L) Attach Front and Rear Sight Assemblies				11/2/90	KA		
	M) Iron Sight Alignment				11/2/90	KA		
	N) Detach Front & Rear Sights & place in numbered container				11/2/90	KA		
	O) Attach Scope to Rifle				11/2/90	KA		
	P) Detach & Attach Scope 20 Times				11/2/90	KA		
640	Gallery Target & Test				11-27-90	KT		
	A) Time				11-27-90	KT		
	B) Malfunctions				11-27-90	KT		
	C) Pierced Primers				11-27-90	KT		
	D) Optical Clarity of Scope				11-27-90	KT		
645	Inspect for Live Ammo				11-27-90	KT		
655	Final Inspection							
	A) Headspace				11-28-90	JS		
	B) Trigger Pull	256	252	248	249	249	11-28-90	JS
	C) Function						11-28-90	JS
660	Pack						12/18/90	AF

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. 06523498

DATE 11/2/90

TESTER JL

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.48	2.20	2.31	2.56	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.32	2.12	2.25	2.52	
PULL #3	2.42	2.25	2.20	2.48	
PULL #4	2.45	2.11	2.15	2.49	
PULL #5	2.17	2.23	2.20	2.49	
TOTAL	11.84	10.91	11.11		
AVG.	2.368	2.182	2.222		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.21	3.20		
PULL #2	3.16	3.26		
PULL #3	3.48	3.32		
PULL #4	3.18	3.26		
PULL #5	3.28	3.23		
TOTAL	16.31	16.27		
AVG.	3.262	3.254		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.15	4.41		4.47
PULL #2	4.39	4.40		4.49
PULL #3	4.41	4.43		4.39
PULL #4	4.42	4.46		4.41
PULL #5	4.14	4.38		4.38
TOTAL	21.51	22.08		22.14
AVG.	4.302	4.416		4.428

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6523498
28 Nov 1990

CENTROIDAL DISTANCES

0 TO 1	.2791
1 TO 2	.496726
1 TO 3	.290028
1 TO 4	.140246
1 TO 5	.193313

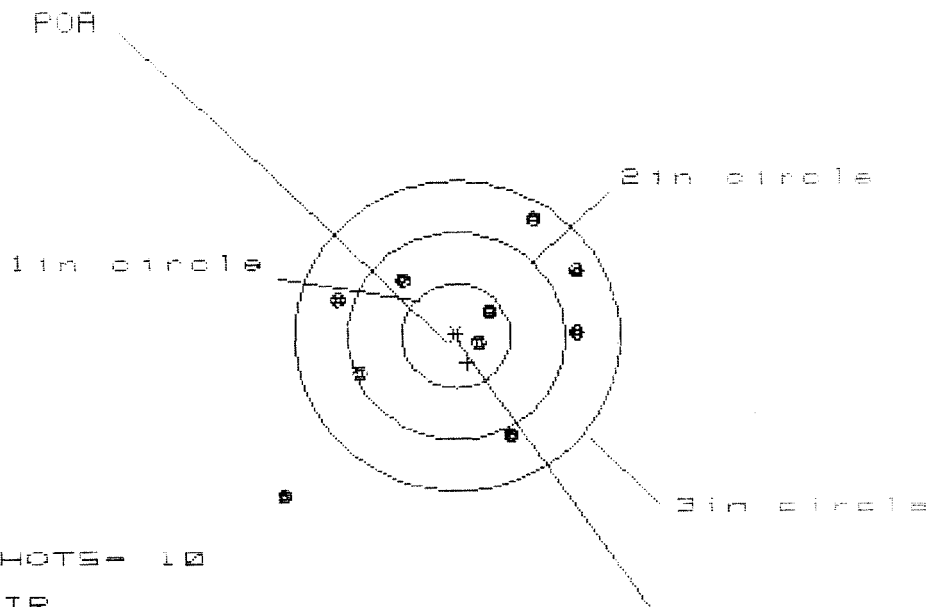
43 <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0136
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0698
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0711126
THE AMR FOR THIS RIFLE IS: .8742

28 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/08523458

CENTERFIRE PATTERNS # 1



OF SHOTS = 10

IN CIR

1 in = 2

2 in = 4

3 in = 9

HS = 2.704

VS = 2.635

GS = 3.492

PATTERN #	:	1	2	3
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.151	.978	1.049
MINIMUM X	:	-1.553	-1.276	-1.205
MAXIMUM Y	:	1.119	.950	.546
MINIMUM Y	:	-1.516	-1.155	-1.036
CENTROID X	:	-.104	.069	-.002
CENTROID Y	:	.259	.428	.309
POA TO CENTROID in.	:	.279	.433	.309
MIN RADIUS	:	.202	.128	.118
MEAN RADIUS	:	1.042	.872	.843
MAX RADIUS	:	2.171	1.287	1.239
HORIZONTAL SPREAD	:	2.704	2.254	2.254
VERTICAL SPREAD	:	2.635	2.105	1.582
EXTREME SPREAD	:	3.492	2.270	2.270
NUMBER IN ONE INCH CIRCLE	=	2		
NUMBER IN TWO INCH CIRCLE	=	4		
NUMBER IN THREE INCH CIRCLE	=	9		

28 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6525498

CENTERFIRE PATTERNS # 2

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS - 10

IN CIR

1in = 3

2in = 5

3in = 10

HS= 1.705

VS= 2.397

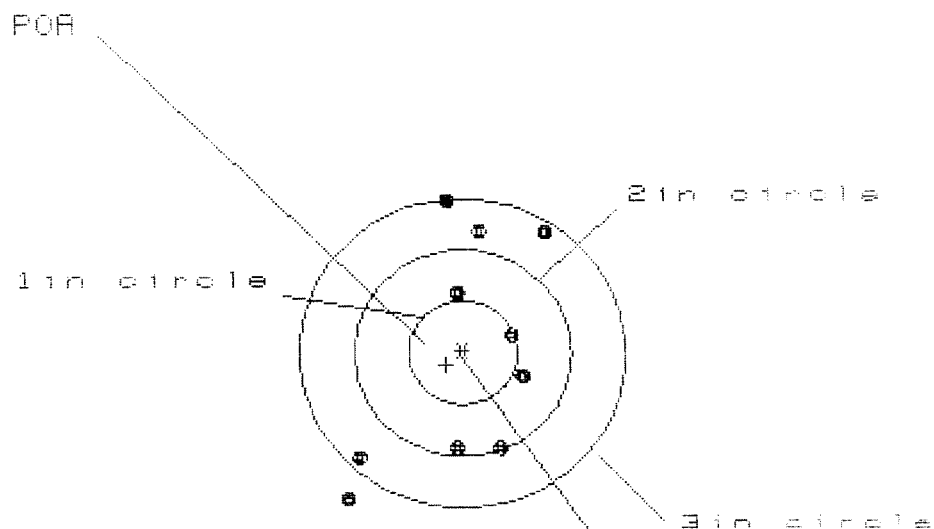
GS= 2.514

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.677	.647	.704
MINIMUM X	:	-1.028	-1.058	-1.002
MAXIMUM Y	:	1.147	1.008	.877
MINIMUM Y	:	-1.250	-.942	-.816
CENTROID X	:	.020	.050	-.007
CENTROID Y	:	-.222	-.083	-.209
POA TO CENTROID in.	:	.223	.097	.209
MIN RADIUS	:	.081	.222	.087
MEAN RADIUS	:	.828	.795	.725
MAX RADIUS	:	1.280	1.143	1.178
HORIZONTAL SPREAD	:	1.705	1.705	1.705
VERTICAL SPREAD	:	2.397	1.950	1.693
EXTREME SPREAD	:	2.514	2.253	2.253
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		10	

28 Nov 1988

FILE:/PATTERNING/CENTERFIRE_PATT/06523498

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 9

HS= 1.836

VS= 2.889

GS= 3.212

CENTROID *

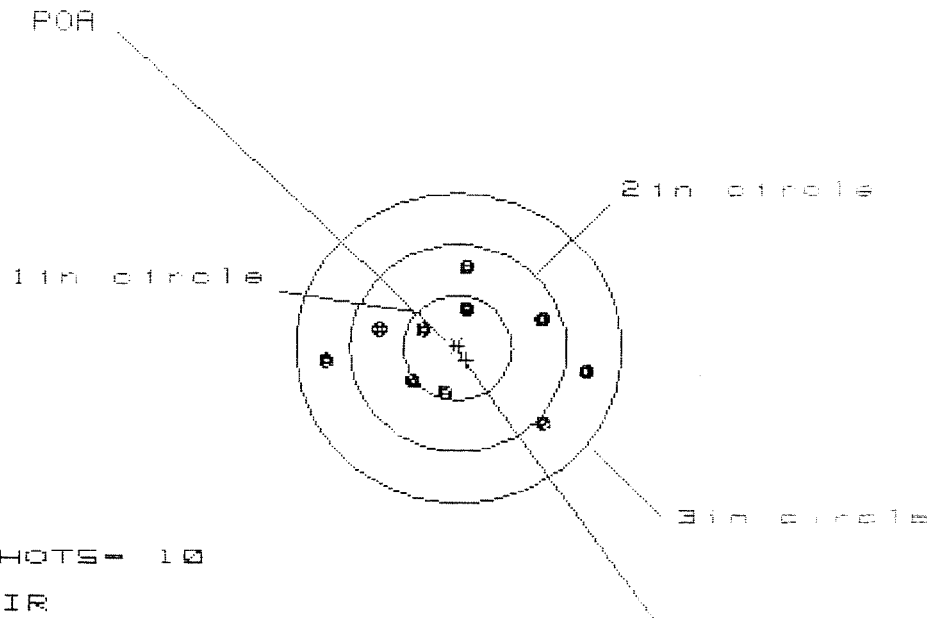
PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.775	.657	.629
MINIMUM X	:	-1.061	-1.071	-1.099
MAXIMUM Y	:	1.434	1.273	1.178
MINIMUM Y	:	-1.455	-1.149	-1.990
CENTROID X	:	.150	.268	.296
CENTROID Y	:	.119	.290	.121
POA TO CENTROID in.	:	.192	.388	.320
MIN RADIUS	:	.455	.308	.321
MEAN RADIUS	:	1.072	.956	.906
MAX RADIUS	:	1.801	1.571	1.479
HORIZONTAL SPREAD	:	1.836	1.728	1.728
VERTICAL SPREAD	:	2.889	2.422	2.168
EXTREME SPREAD	:	3.212	2.772	2.772
NUMBER IN ONE INCH CIRCLE =			1	
NUMBER IN TWO INCH CIRCLE =			5	
NUMBER IN THREE INCH CIRCLE =			9	

28 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523498

CENTERFIRE PATTERNS

4



OF SHOTS- 10

IN CIR

1 in = 3

2 in = 7

3 in = 10

HS= 2.373

VS= 1.528

GS= 2.373

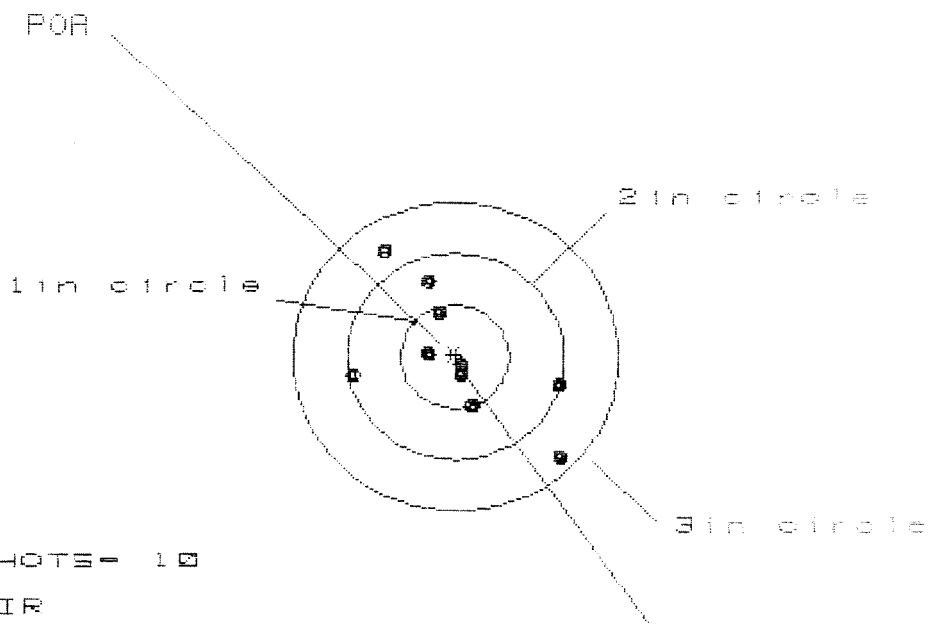
CENTROID #

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.187	.873	.741
MINIMUM X	:	-1.186	-1.054	-.721
MAXIMUM Y	:	.825	.804	.783
MINIMUM Y	:	-.703	-.724	-.745
CENTROID X	:	-.079	-.211	-.079
CENTROID Y	:	.121	.142	.163
POA TO CENTROID in.	:	.144	.254	.181
MIN RADIUS	:	.383	.295	.341
MEAN RADIUS	:	.757	.685	.644
MAX RADIUS	:	1.202	1.134	1.050
HORIZONTAL SPREAD	:	2.373	1.927	1.462
VERTICAL SPREAD	:	1.528	1.528	1.528
EXTREME SPREAD	:	2.373	2.005	1.688
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		10	

28 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06523458

CENTERFIRE PATTERNS # 5



OF SHOTS= 10

IN CIR

1 in = 4

2 in = 8

3 in = 10

HS= 1.858

VS= 1.985

GS= 2.522

CENTROID *

PATTERN #	5	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.954	1.059	.996
MINIMUM X	-.904	-.799	-.863
MAXIMUM Y	.992	.882	.697
MINIMUM Y	-.993	-.569	-.459
CENTROID X	-.055	-.160	-.097
CENTROID Y	.072	.182	.072
POA TO CENTROID in.	.090	.242	.120
MIN RADIUS	.100	.191	.122
MEAN RADIUS	.672	.592	.520
MAX RADIUS	1.371	1.126	1.033
HORIZONTAL SPREAD	1.858	1.858	1.858
VERTICAL SPREAD	1.985	1.451	1.156
EXTREME SPREAD	2.522	2.013	1.863
NUMBER IN ONE INCH CIRCLE =	4		
NUMBER IN TWO INCH CIRCLE =	8		
NUMBER IN THREE INCH CIRCLE =	10		