

C6349078

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

Serial Number: C6349078

Model: M24 SWS



RE00102796

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6349078.__0
FILE DATE AND TIME: 11/21/2005 22:33

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.031
The Average Y Centroid of the Five Target Set:	-0.114
The Average Point of Impact of the Five Target Set:	0.119
The Average Mean Radius of the Five Target Set:	0.738
The Distance from POA to Centroid Target #1:	0.115
The Distance from Centroid Target #2 to Centroid Target #1:	0.232
The Distance from Centroid Target #3 to Centroid Target #1:	0.255
The Distance from Centroid Target #4 to Centroid Target #1:	0.252
The Distance from Centroid Target #5 to Centroid Target #1:	0.341

SERIAL NUMBER: C6349078. 0

TARGET NUMBER: 1

FILE DATE: 11/21/2005

FILE TIME: 22:33

POINT#	X	Y
1:	0.049	-0.259
2:	-0.215	-0.429
3:	-0.736	-0.255
4:	-1.074	0.078
5:	-0.129	0.300
6:	-0.546	1.081
7:	0.637	0.602
8:	0.786	-0.331
9:	0.882	-0.996
10:	0.300	-0.936

X CENTROID: -0.005

Y CENTROID: -0.114

POA TO CENTROID: 0.115

HORZ SPREAD: 1.956

VERT SPREAD: 1.077

GROUP SPREAD: 1.521

MIN RADIUS: 1.154

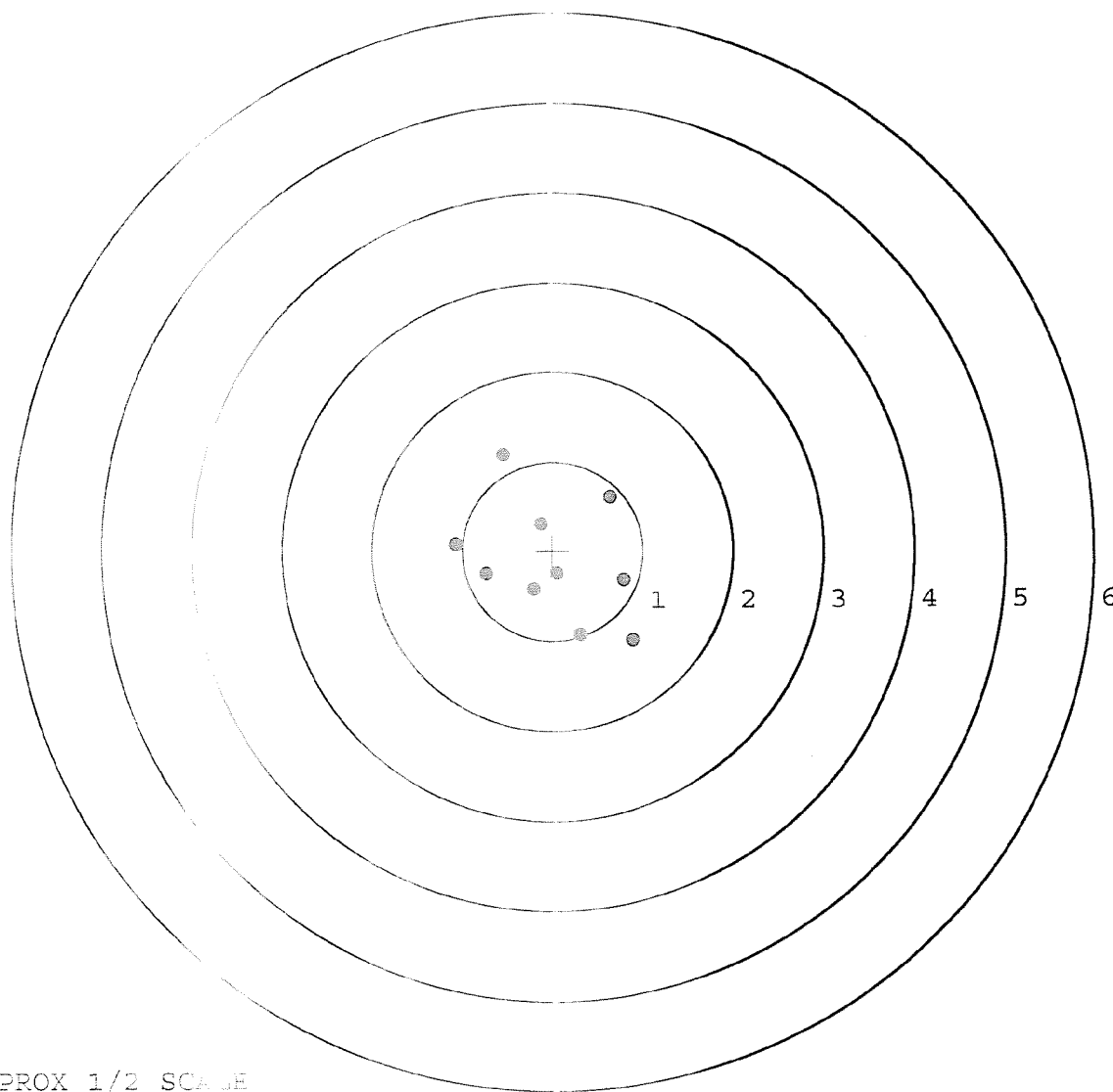
MAX RADIUS: 1.312

MEAN RADIUS: 0.802

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349078. 0

TARGET NUMBER: 2

FILE DATE: 11/21/2005

FILE TIME: 22:33

POINT#	X	Y
1:	-0.100	0.238
2:	0.078	0.320
3:	0.000	0.559
4:	0.183	0.039
5:	-0.325	-0.143
6:	0.090	-0.355
7:	-0.144	-0.872
8:	0.127	-1.075
9:	0.012	1.023
10:	-0.627	1.348

X CENTROID: -0.071

Y CENTROID: 0.108

POA TO CENTROID: 0.129

HORZ SPREAD: 0.810

VERT SPREAD: 2.423

GROUP SPREAD: 1.538

MIN RADIUS: 1.133

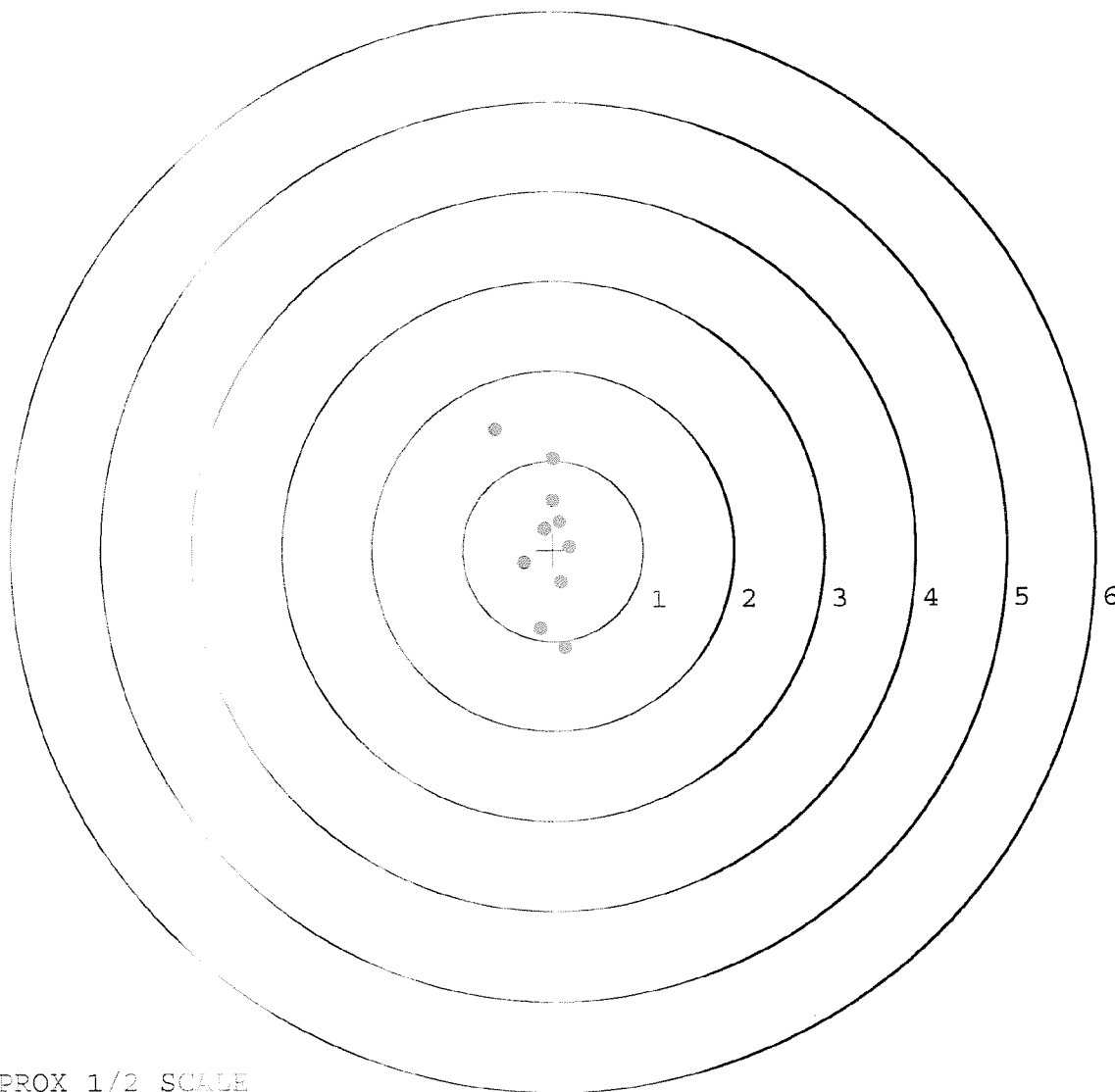
MAX RADIUS: 1.359

MEAN RADIUS: 0.642

IN 1 IN DIAMETER: 6

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349078. 0

TARGET NUMBER: 3

FILE DATE: 11/21/2008

FILE TIME: 22:33

POINT#	X	Y
1:	0.311	0.137
2:	0.013	0.486
3:	-0.334	0.495
4:	-0.195	-0.158
5:	0.588	-0.650
6:	0.260	-1.147
7:	-0.860	-1.193
8:	-0.769	0.865
9:	-0.609	0.879
10:	0.199	1.299

X CENTROID: -0.140

Y CENTROID: -0.101

POA TO CENTROID: -0.172

HORZ SPREAD: 1.448

VERT SPREAD: 1.492

GROUP SPREAD: 1.706

MIN RADIUS: 1.265

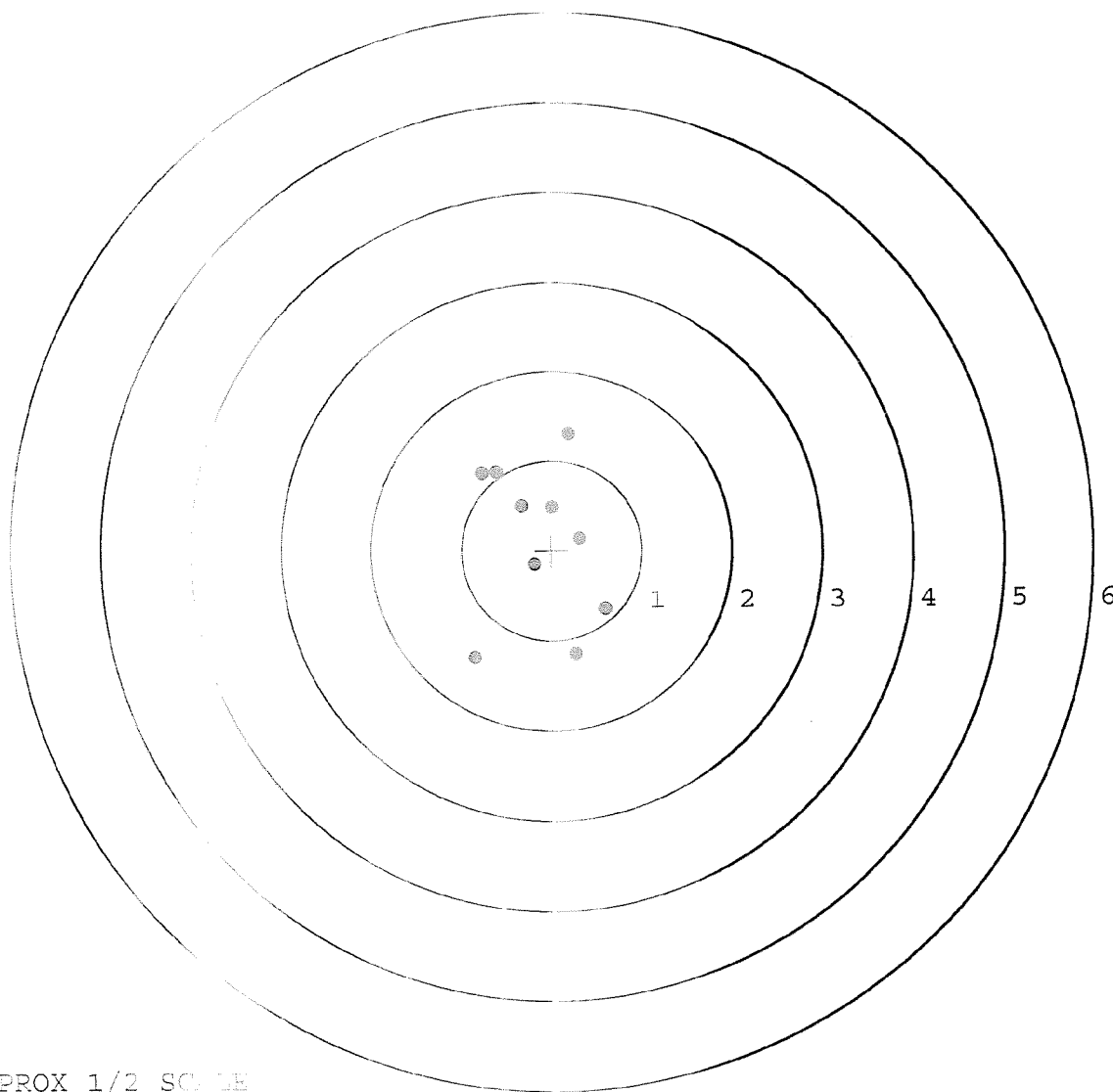
MAX RADIUS: 1.481

MEAN RADIUS: 1.355

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349078. 0

TARGET NUMBER: 4

FILE DATE: 11/21/2008

FILE TIME: 22:33

POINT#	X	Y
1:	0.175	-0.085
2:	0.471	-0.053
3:	0.563	-0.225
4:	0.624	-0.391
5:	0.182	-1.063
6:	0.114	-0.934
7:	-0.045	-0.355
8:	-0.687	0.098
9:	0.093	0.533
10:	-0.367	-0.903

X CENTROID: 0.112

Y CENTROID: -0.338

POA TO CENTROID: 0.756

HORZ SPREAD: 1.311

VERT SPREAD: 1.596

GROUP SPREAD: 1.450

MIN RADIUS: 0.158

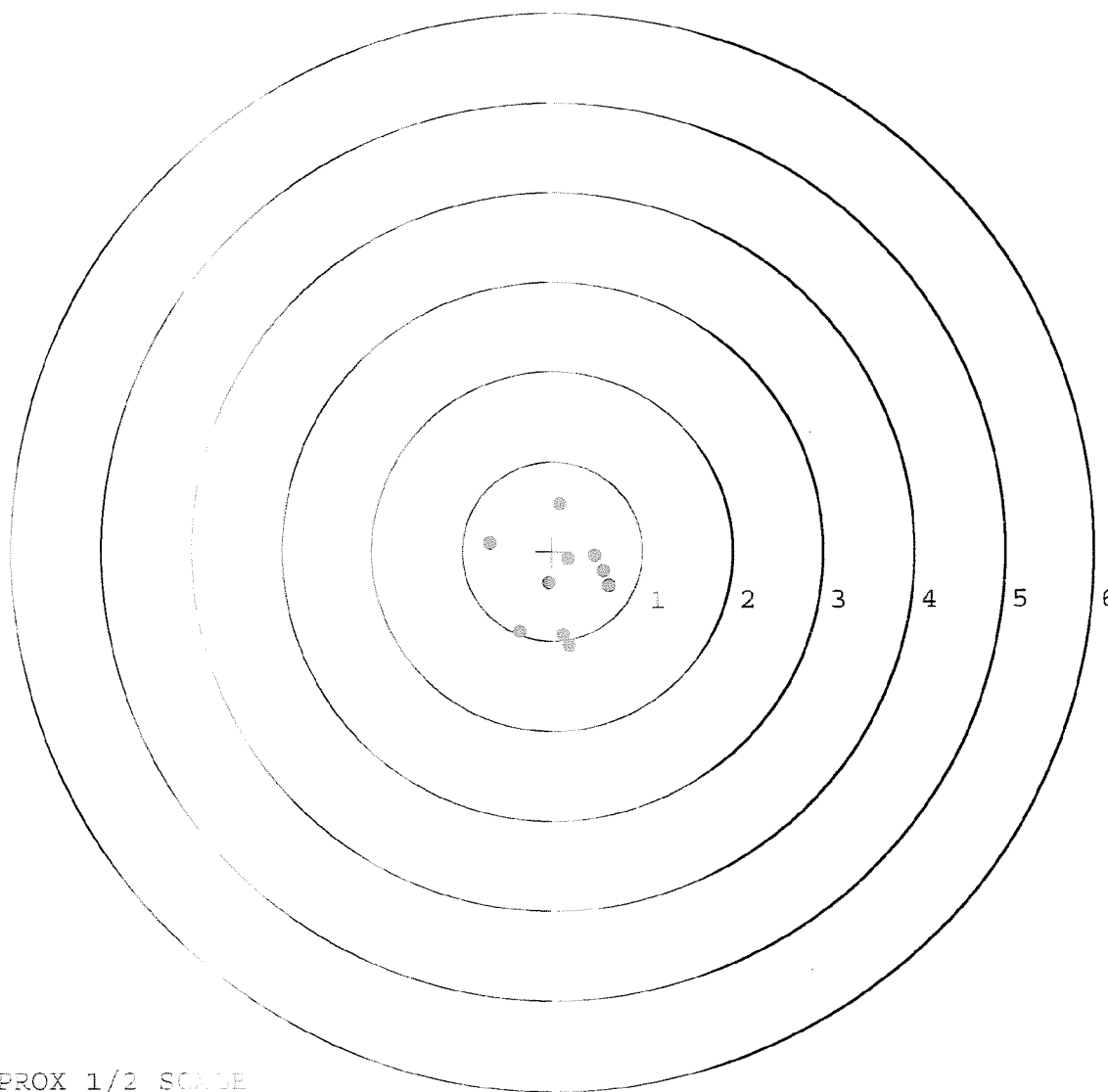
MAX RADIUS: 0.910

MEAN RADIUS: 0.570

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349078. 0

TARGET NUMBER: 5

FILE DATE: 11/21/2005

FILE TIME: 22:33

POINT#	X	Y
1:	0.019	-0.351
2:	-0.101	-0.531
3:	-0.364	-0.397
4:	0.439	0.021
5:	-0.681	0.497
6:	1.256	0.338
7:	0.349	0.789
8:	1.164	-1.605
9:	0.347	-1.166
10:	0.171	-0.887

X CENTROID: 0.260

Y CENTROID: -0.329

POA TO CENTROID: 0.419

HORZ SPREAD: 0.937

VERT SPREAD: 0.394

GROUP SPREAD: 0.797

MIN RADIUS: 0.242

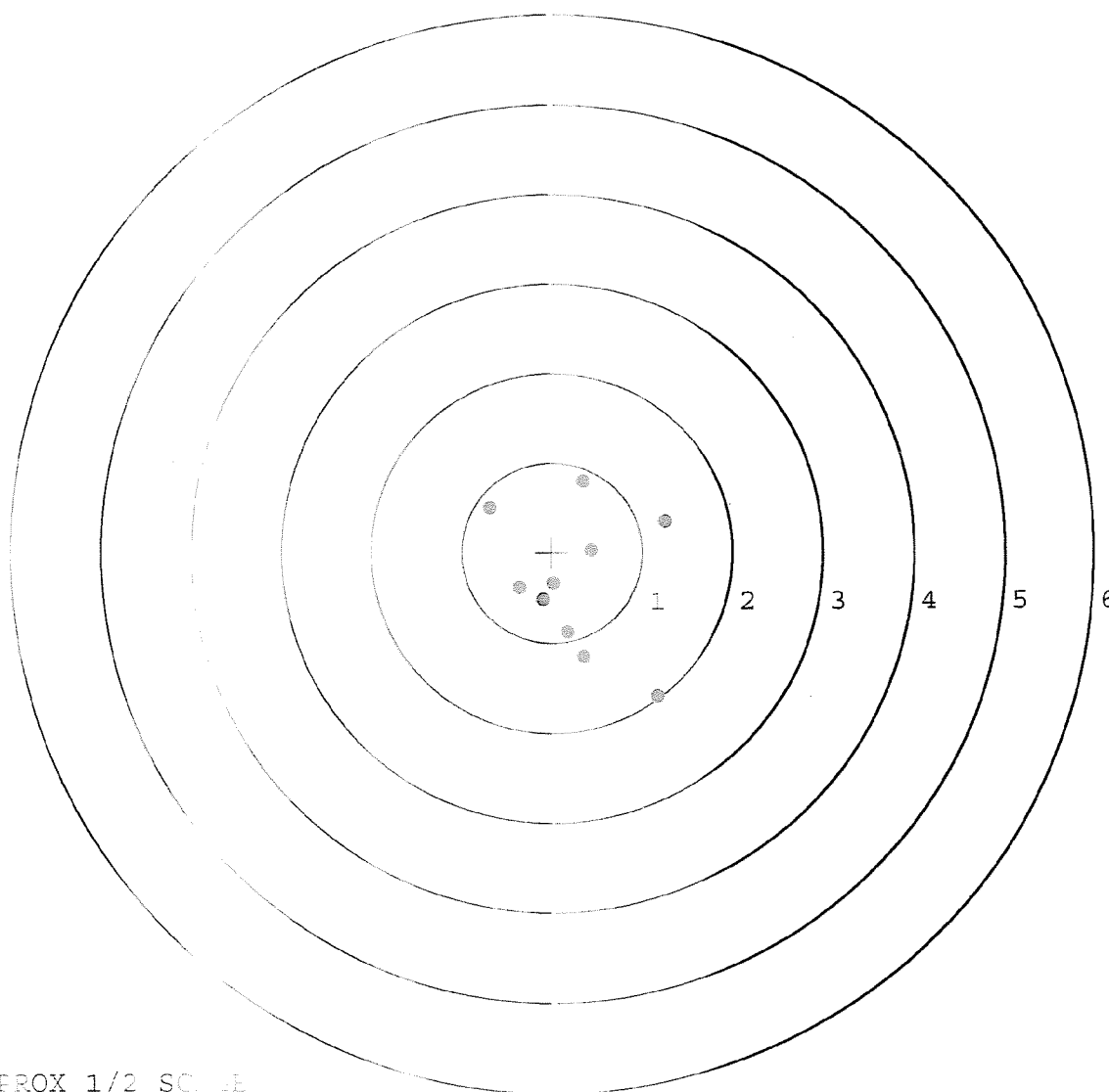
MAX RADIUS: 1.564

MEAN RADIUS: 0.822

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 6

IN 3 IN DIAMETER: 0



TARGET APPROX 1/2 SCALE

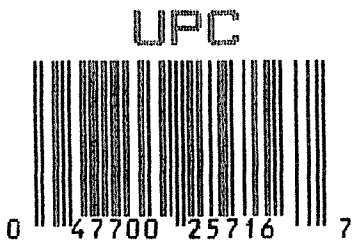
M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-D-0127

R & E NUMBER	10-2796		
SERIAL NUMBER	CAMP SHELBY C 6349078		
LOG-IN DATE	10-26-05		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	11-3-05	AC
560 A	RE-BARREL	11-7-05	AC
B	DRILL AND TAP	11-11-05	BR
575	ASSEMBLE	11-14-05	CD
600	PROOF MAGNA-FLUX	11-14-05	CD
605	CHECK HEADSPACE	11-14-05	CD
610	DIS-ASSEMBLE GUN	11-14-05	CD
612	MAGNAFLUX	11-15-05	uncl
615	ROLLMARK CALIBER	11-15-05	CW
618	ROTO-BLAST	11-16-05	LB
620	APPLY COATINGS	11-16-05	HP
625 A	FINAL ASSEMBLY	11-17-05	BC
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE	11-21-05	AC
D	SAFETY "OFF" FORCE	11-21-05	AC
E	FIRING PIN INDENT	11-21-05	AC
640	TARGET	11-21-05	mm
655	FINAL INSPECT	11-21-05	AC
660	PACK	12-1-05	DA
		SHIP DATE	
		OAR 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 TM H24		SERIAL NO. C6349078	ORDER NO. 5716
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat & Tm. Off, Marca Registrada Marque Deposee.		01	



5716 C6349078



CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6349078

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	1 12	90	RW
600	Proof	1 12	90	L
607	Check Headspace	1 12	90	L
610	Dis-assemble Gun	1-12	90	RW
612	Magnaflux Barrel Action	1-16-90		KER
	Magnaflux Bolt	1-17-90		KER
615	Rollmark Caliber	1-17-90		GS
617	Drill and Tap Sight Holes	1-19-90		FB
618	Polish Barrel RB	1-22-90		WB
620	Apply Coatings (Barrel Action)		2-2-90	JA
	Apply Coating (Bolt)			
625	Final Assembly		2/2/90	WB
	A) Clean inside of Bolt Assembly			
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		2/6/90	RW
	C) Inspect Ejector Hole for Chamfer		2/6/90	RW
	D) Oil Firing Pin Ass'y		2/6/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		2-9-90	JA

op. #	BARBER - M24 0107346 OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4	4	4			2-12-90	JH
	G) Safety Off Force	2	2	2			2-12-90	JH
	H) Trigger Pull Test & Retainability						2-9-90	JH
	I) Firing Pin Indent	.0205	.0215	.021			2-12-90	JH
	J) Assemble Stock						4/16/90	RW
	K) Assemble Swivel Studs						4/27/90	JH
	L) Attach Front and Rear Sight Assemblies						4/16/90	RW
	M) Iron Sight Alignment						4/16/90	RW
	N) Detach Front & Rear Sights & place in numbered container						4/16/90	RW
	O) Attach Scope to Rifle						4/17/90	WB
	P) Detach & Attach Scope 20 Times						4/17/90	WB
640	Gallery Target & Test						4-17-90	AC
	A) Time						4-17-90	AC
	B) Malfunctions						4-17-90	AC
	C) Pierced Primers						4-17-90	AC
	D) Optical Clarity of Scope						4-17-90	AC
645	Inspect for Live Ammo						4-17-90	AC
655	Final Inspection A) Headspace						4/20/90	WB
	B) Trigger Pull	2.52	2.69	2.72	2.68	2.72	4/26/90	WB
	C) Function						4/27/90	JH
660	Pack						6-19-90	DH

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO. C6349078

DATE 4-16-90

TESTER DH

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.44	2.50	2.52	2.52	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.45	2.46	2.54	2.69	
PULL #3	2.50	2.45	2.54	2.72	
PULL #4	2.37	2.47	2.56	2.68	
PULL #5	2.50	2.45	2.50	2.72	
TOTAL	12.26	12.33	12.66		
AVG.	2.45	2.46	2.53		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.12	3.13		
PULL #2	3.18	3.17		
PULL #3	3.17	3.17		
PULL #4	3.17	3.24		
PULL #5	3.08	3.18		
TOTAL	15.72	15.89		
AVG.	3.14	3.17		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.16	4.16		4.10
PULL #2	4.15	4.09		4.06
PULL #3	4.14	4.12		4.07
PULL #4	4.15	4.08		4.09
PULL #5	4.10	4.10		4.12
TOTAL	20.70	20.55		20.44
AVG.	4.14	4.11		4.08

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6349078
17 Apr 1990

CENTROIDAL DISTANCES

0 TO	1	.426432
1 TO	2	.473207
1 TO	3	.444568
1 TO	4	.522015
1 TO	5	.612069

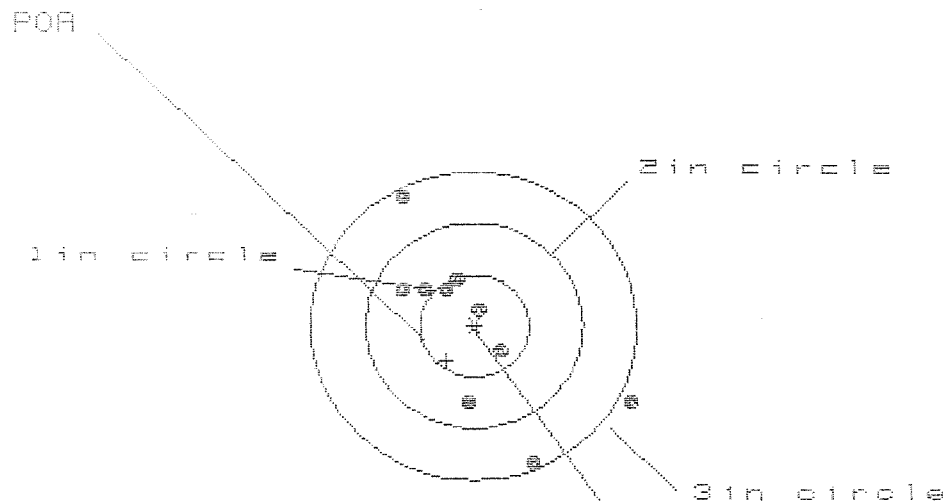
$\frac{1}{5}$ <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.074
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .3366
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .344638
THE AMR FOR THIS RIFLE IS: .8728

17 Apr 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8349078

CENTERFIRE PATTERNS # 1



OF SHOTS = 10

IN CIR

1in = 9

2in = 7

3in = 0

HM = 2.120

VM = 2.588

CS = 2.880

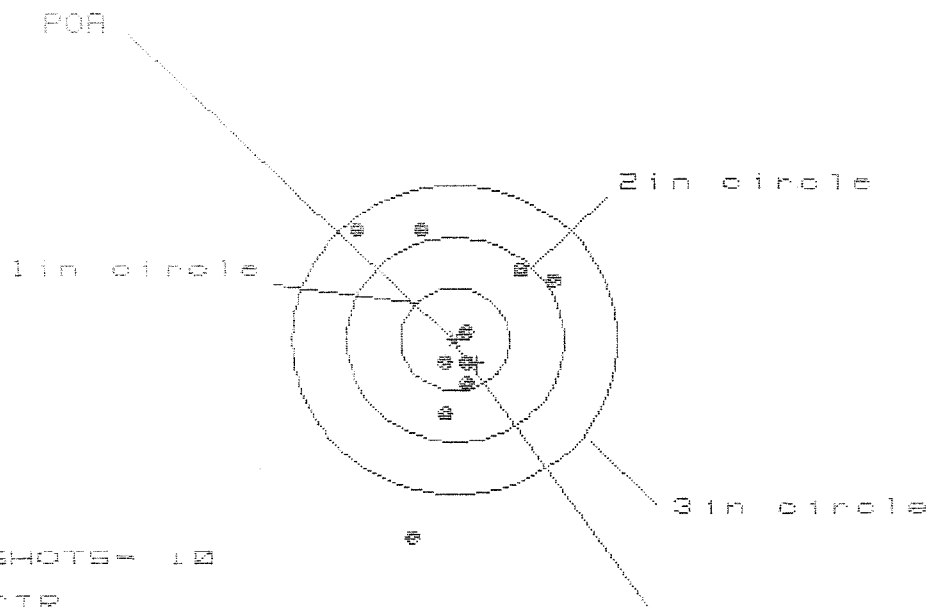
CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.473	.680	.623
MINIMUM X	-.647	-.484	-.540
MAXIMUM Y	1.275	1.197	.577
MINIMUM Y	-1.313	-1.391	-1.242
CENTROID X	.260	.097	.154
CENTROID Y	.338	.416	.267
POA TO CENTROID in.	.427	.427	.308
MIN RADIUS	.132	.188	.237
MEAN RADIUS	.810	.684	.636
MAX RADIUS	1.633	1.549	1.399
HORIZONTAL SPREAD	2.120	1.164	1.164
VERTICAL SPREAD	2.588	2.588	1.919
EXTREME SPREAD	2.880	2.826	2.061
NUMBER IN ONE INCH CIRCLE =	9	3	
NUMBER IN TWO INCH CIRCLE =	7		
NUMBER IN THREE INCH CIRCLE =	9		

17 Apr 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8349078

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1 in = 4

2 in = 6

3 in = 9

HS= 1.760

VS= 3.056

CS= 3.059

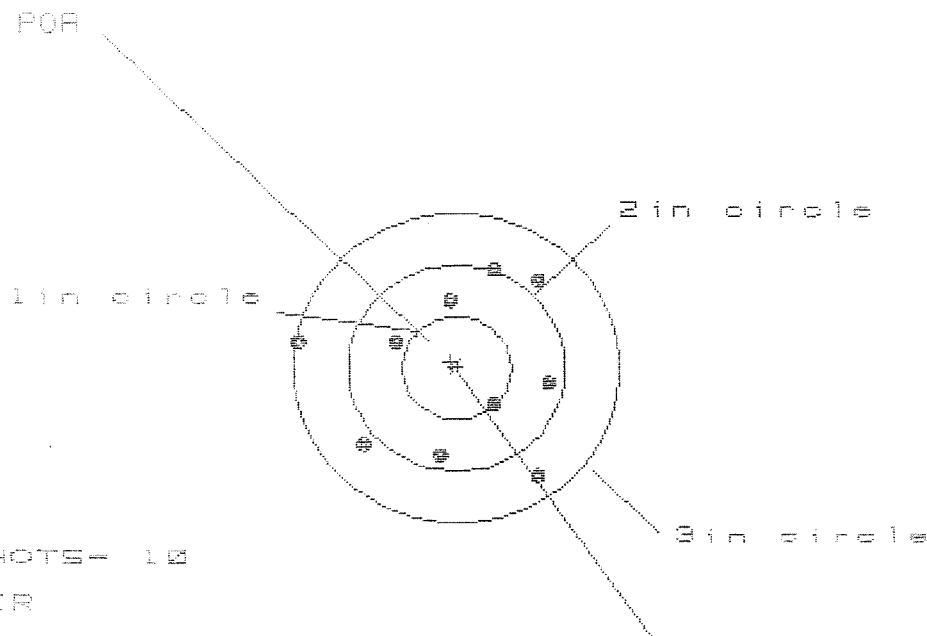
CENTROID *

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.965	.857	.744
MINIMUM X	:	-.855	-.903	-.462
MAXIMUM Y	:	1.098	.880	.987
MINIMUM Y	:	-1.958	-.957	-.850
CENTROID X	:	-.198	-.150	-.037
CENTROID Y	:	.219	.437	.330
POA TO CENTROID in.	:	.296	.462	.332
MIN RADIUS	:	.169	.136	.032
MEAN RADIUS	:	.843	.731	.626
MAX RADIUS	:	2.006	1.243	1.090
HORIZONTAL SPREAD	:	1.760	1.760	1.206
VERTICAL SPREAD	:	3.056	1.837	1.837
EXTREME SPREAD	:	3.059	1.960	1.847
NUMBER IN ONE INCH CIRCLE	=		4	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	

17 Apr 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06349078

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 8

HS= 2.325

VS= 2.027

GS= 2.566

PATTERN #

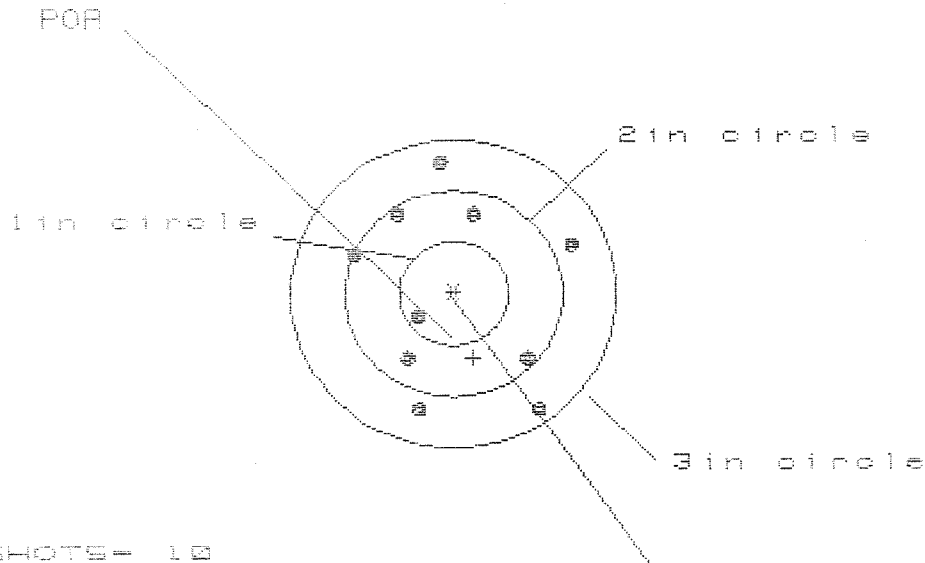
3

SHOTS (BEST OF)	10	9	8
MAXIMUM X	.849	.685	.756
MINIMUM X	-1.476	-1.983	-.912
MAXIMUM Y	.993	1.023	.897
MINIMUM Y	-1.034	-1.004	-.895
CENTROID X	.056	.220	.149
CENTROID Y	-.057	-.087	.039
POA TO CENTROID in.	.080	.236	.154
MIN RADIUS	.471	.348	.493
MEAN RADIUS	.947	.870	.829
MAX RADIUS	1.501	1.201	1.223
HORIZONTAL SPREAD	2.325	1.668	1.668
VERTICAL SPREAD	2.027	2.027	1.792
EXTREME SPREAD	2.566	2.254	2.254
NUMBER IN ONE INCH CIRCLE =		1	
NUMBER IN TWO INCH CIRCLE =		5	
NUMBER IN THREE INCH CIRCLE =		9	

17 Apr 1998

FILE:/PATTERNING/CENTERFIRE_PATT/08349078

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 5

3 in = 10

HSE = 2.056

VS = 2.335

CS = 2.489

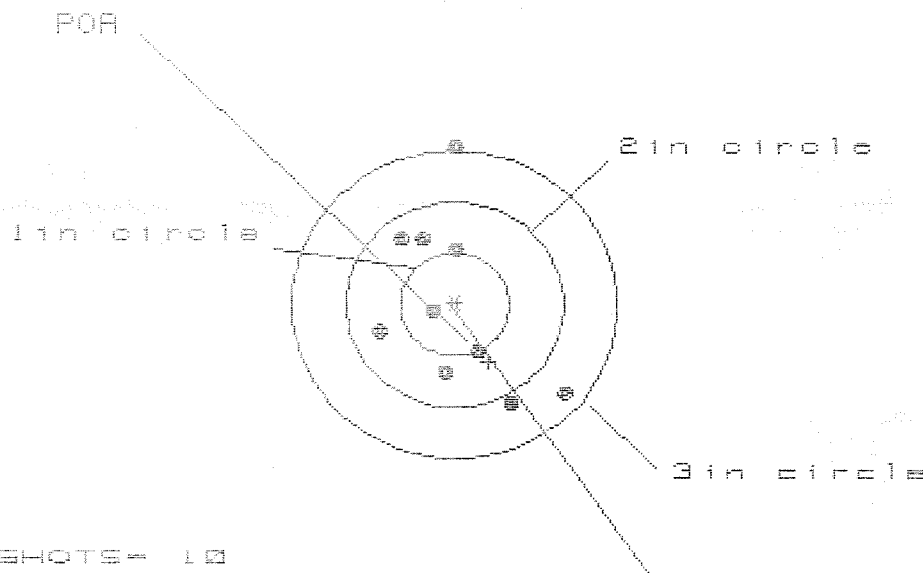
CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.112	1.195	1.187
MINIMUM X	-.944	-.861	-.870
MAXIMUM Y	1.228	1.106	.778
MINIMUM Y	-1.107	-1.229	-1.091
CENTROID X	-.178	-.261	-.253
CENTROID Y	.622	.744	.686
POA TO CENTROID in.	.647	.788	.656
MIN RADIUS	.361	.387	.298
MEAN RADIUS	.975	.922	.887
MAX RADIUS	1.324	1.256	1.298
HORIZONTAL SPREAD	2.056	2.056	2.056
VERTICAL SPREAD	2.335	2.335	1.869
EXTREME SPREAD	2.489	2.339	2.134
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	10		

17 Apr 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06345078

CENTERFIRE PATTERNS # 5



OF SHOTS = 10

IN CIR

1in = 2

2in = 7

3in = 10

HS = 1.659

VS = 2.419

GS = 2.596

PATTERN #	5	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.992	1.989	1.666
MINIMUM X	-1.667	-1.670	-1.547
MAXIMUM Y	1.496	.827	.736
MINIMUM Y	-.923	-.756	-.847
CENTROID X	-.310	-.307	-.430
CENTROID Y	.561	.394	.485
POA TO CENTROID in.	.640	.500	.648
MIN RADIUS	.163	.186	.034
MEAN RADIUS	.789	.697	.603
MAX RADIUS	1.497	1.326	1.078
HORIZONTAL SPREAD	1.659	1.659	1.213
VERTICAL SPREAD	2.419	1.583	1.583
EXTREME SPREAD	2.596	2.112	1.865
NUMBER IN ONE INCH CIRCLE	= 2		
NUMBER IN TWO INCH CIRCLE	= 7		
NUMBER IN THREE INCH CIRCLE	= 10		