

C6587722

MODEL 700™ M24

Model **SMS**™

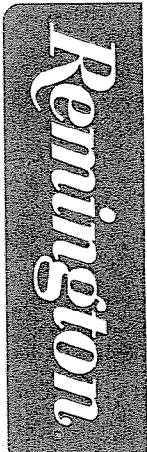
Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.



SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6587722.___0
FILE DATE AND TIME: 04/14/2005 07:02

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.006
The Average Y Centroid of the Five Target Set:	0.151
The Average Point of Impact of the Five Target Set:	0.151
The Average Mean Radius of the Five Target Set:	0.887
The Distance from POA to Centroid Target #1:	0.153
The Distance from Centroid Target #2 to Centroid Target #1:	0.254
The Distance from Centroid Target #3 to Centroid Target #1:	0.142
The Distance from Centroid Target #4 to Centroid Target #1:	0.239
The Distance from Centroid Target #5 to Centroid Target #1:	0.120

SERIAL NUMBER: C6587722. __0

TARGET NUMBER: 1

FILE DATE: 04/14/2005

FILE TIME: 07:02

X CENTROID: 0.123

Y CENTROID: 0.091

POA TO CENTROID: 0.153

HORZ SPREAD: 2.387

VERT SPREAD: 2.298

GROUP SPREAD: 2.782

MIN RADIUS: 0.355

MAX RADIUS: 1.632

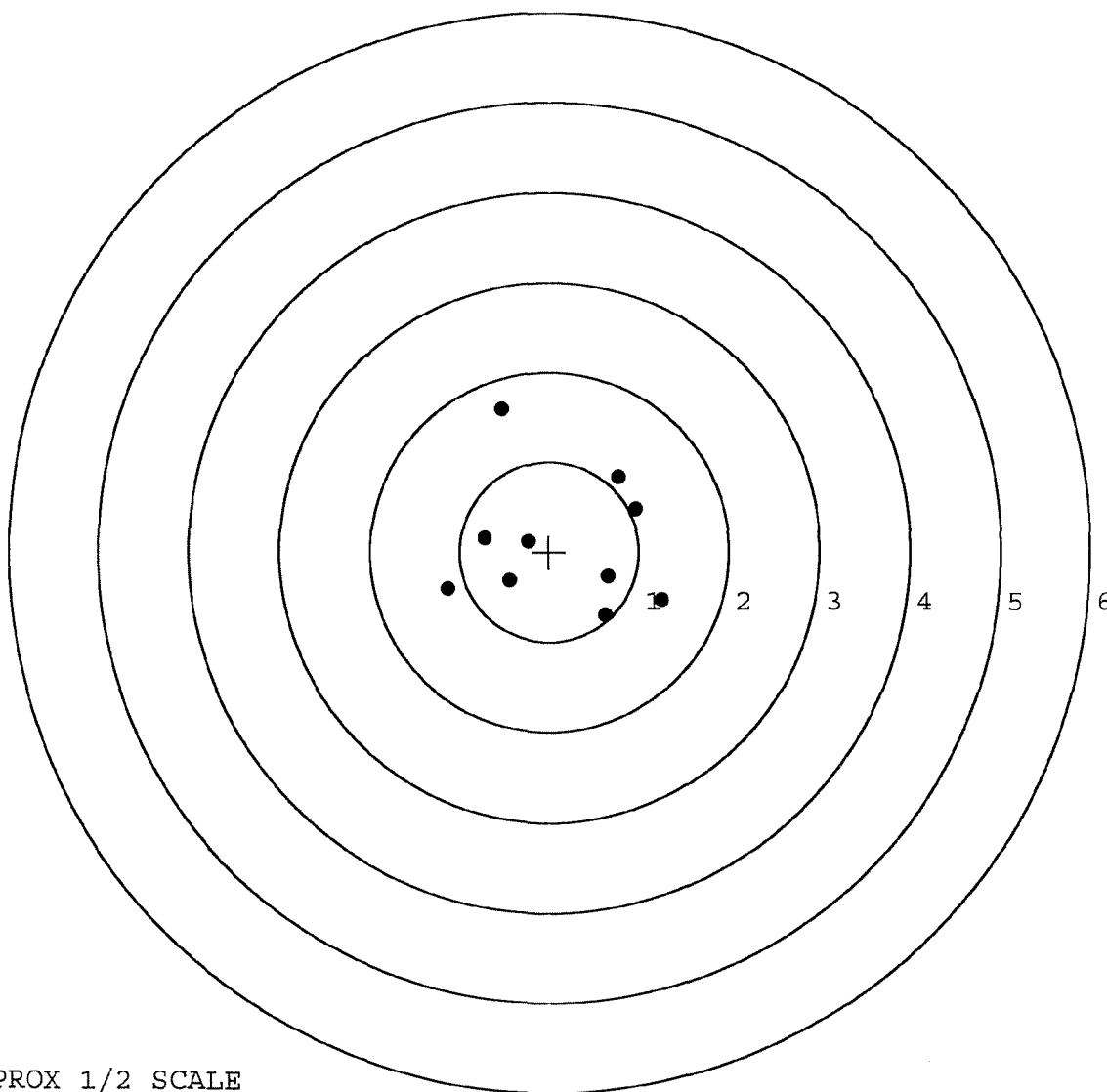
MEAN RADIUS: 0.969

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 9

POINT#	X	Y
1:	1.258	-0.544
2:	0.627	-0.712
3:	0.663	-0.279
4:	0.964	0.476
5:	0.768	0.833
6:	-0.531	1.586
7:	-0.230	0.125
8:	-0.441	-0.322
9:	-0.715	0.160
10:	-1.129	-0.414



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587722. __0

TARGET NUMBER: 2

FILE DATE: 04/14/2005

FILE TIME: 07:02

POINT#	X	Y
1:	0.040	-1.040
2:	0.177	-0.663
3:	0.331	-0.048
4:	0.818	0.109
5:	0.279	1.193
6:	-0.482	1.606
7:	-0.187	-0.335
8:	-0.361	-0.046
9:	-0.792	0.171
10:	-1.130	0.096

X CENTROID: -0.131

Y CENTROID: 0.104

POA TO CENTROID: 0.167

HORZ SPREAD: 1.948

VERT SPREAD: 2.646

GROUP SPREAD: 2.697

MIN RADIUS: 0.275

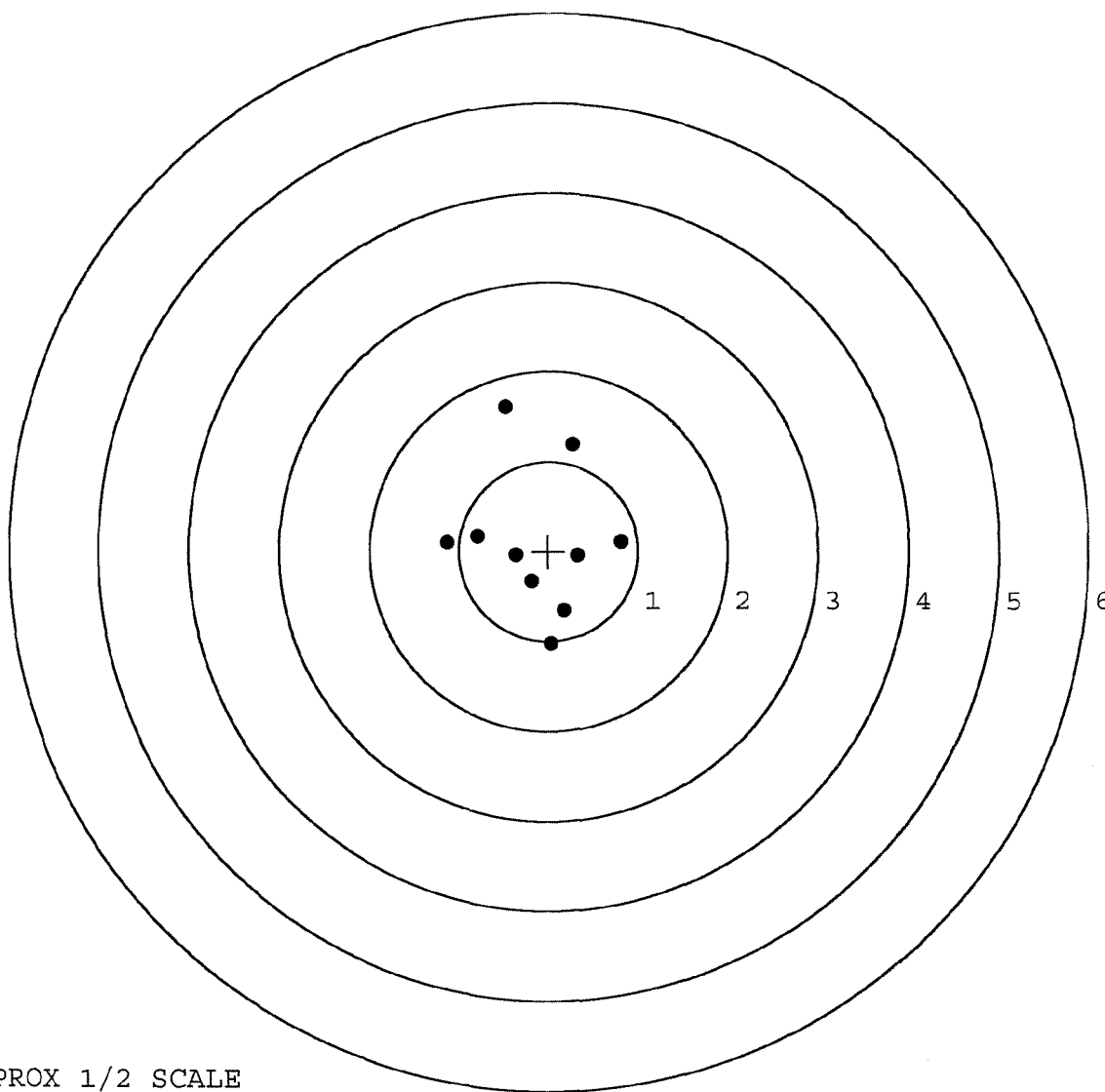
MAX RADIUS: 1.542

MEAN RADIUS: 0.851

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 9

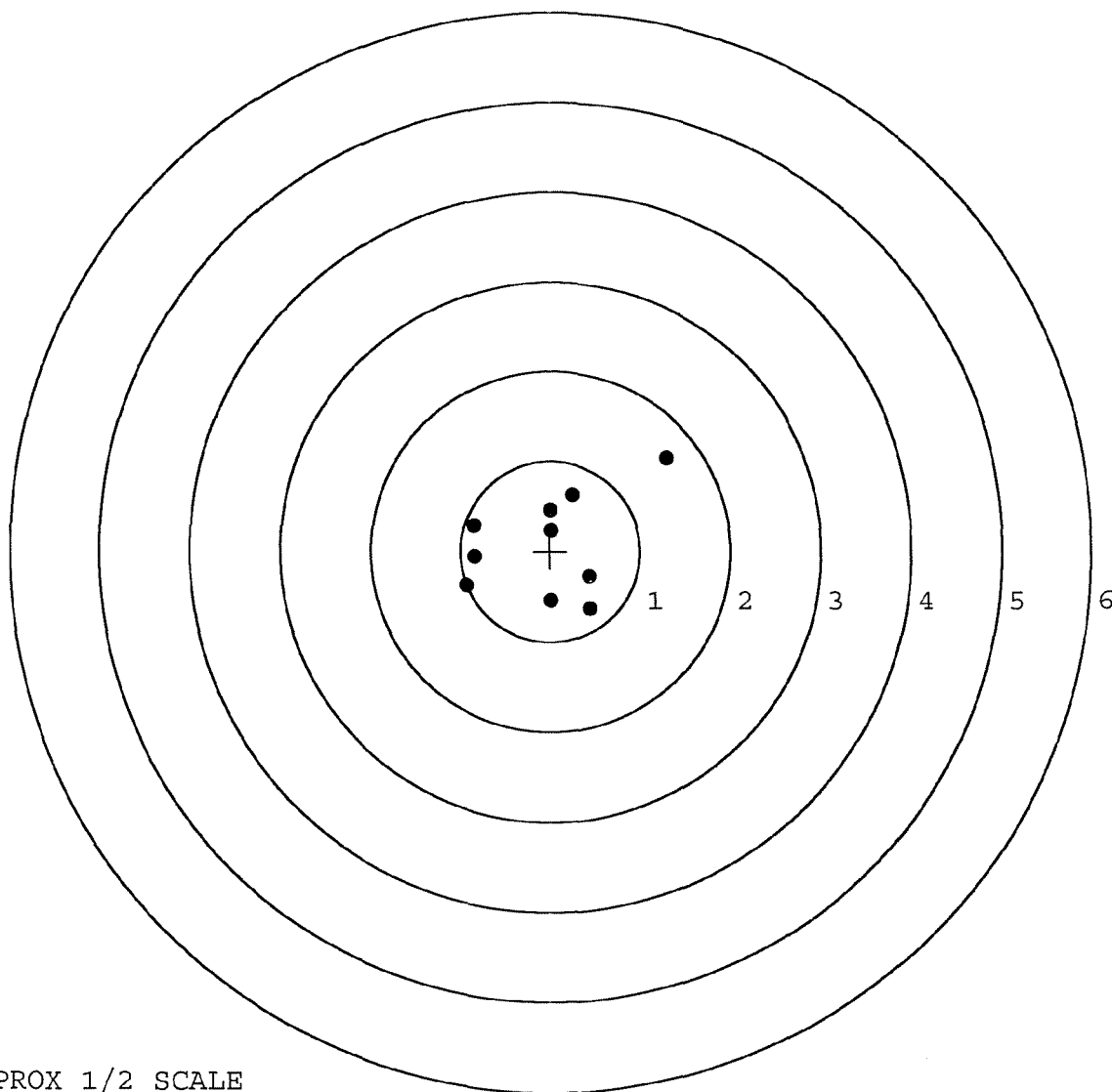


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587722. __0
TARGET NUMBER: 3
FILE DATE: 04/14/2005
FILE TIME: 07:02

X CENTROID: -0.017
Y CENTROID: 0.073
POA TO CENTROID: 0.075
HORZ SPREAD: 2.231
VERT SPREAD: 1.662
GROUP SPREAD: 2.632
MIN RADIUS: 0.163
MAX RADIUS: 1.620
MEAN RADIUS: 0.755
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 9

POINT#	X	Y
1:	1.296	1.022
2:	0.250	0.625
3:	0.006	0.459
4:	0.016	0.233
5:	0.435	-0.274
6:	0.443	-0.640
7:	0.007	-0.553
8:	-0.935	-0.375
9:	-0.843	-0.060
10:	-0.850	0.293



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587722. __0

TARGET NUMBER: 4

FILE DATE: 04/14/2005

FILE TIME: 07:02

POINT#	X	Y
1:	1.701	-0.035
2:	0.736	-0.008
3:	0.431	-0.050
4:	0.467	0.566
5:	0.138	0.503
6:	-0.076	-0.938
7:	-0.261	-0.308
8:	-0.786	-0.529
9:	-1.184	1.368
10:	-1.284	2.312

X CENTROID: -0.012

Y CENTROID: 0.288

POA TO CENTROID: 0.288

HORZ SPREAD: 2.985

VERT SPREAD: 3.250

GROUP SPREAD: 3.797

MIN RADIUS: 0.262

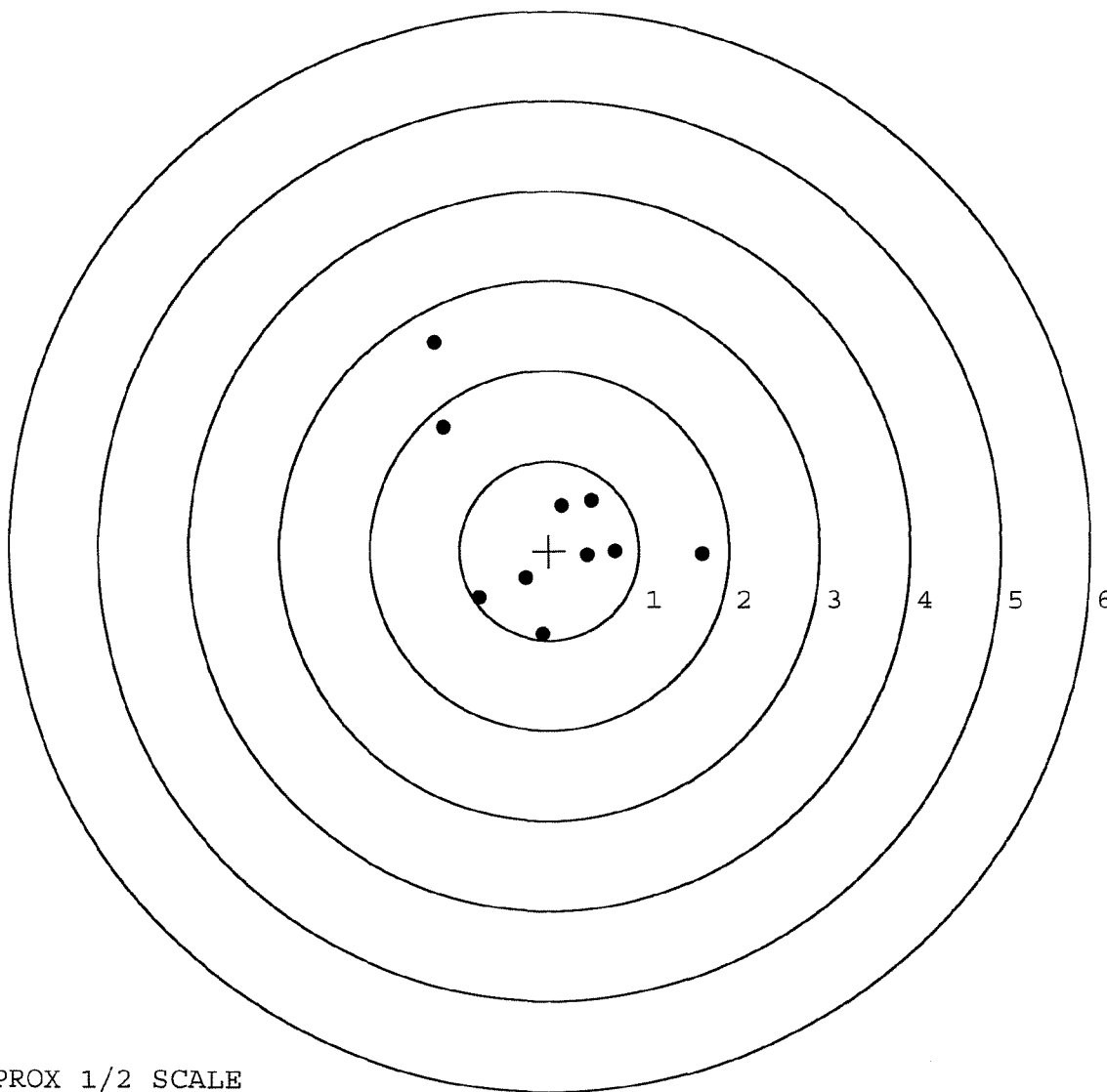
MAX RADIUS: 2.391

MEAN RADIUS: 1.090

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 5

in 3 IN DIAMETER: 7



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587722. __0

TARGET NUMBER: 5

FILE DATE: 04/14/2005

FILE TIME: 07:02

POINT#	X	Y
1:	0.663	-0.401
2:	0.746	0.109
3:	0.500	0.537
4:	0.557	0.631
5:	0.034	1.036
6:	-0.745	1.089
7:	-0.210	0.212
8:	-0.047	-0.168
9:	0.077	-1.063
10:	-0.900	-0.015

X CENTROID: 0.067

Y CENTROID: 0.197

POA TO CENTROID: 0.208

HORZ SPREAD: 1.646

VERT SPREAD: 2.152

GROUP SPREAD: 2.304

MIN RADIUS: 0.278

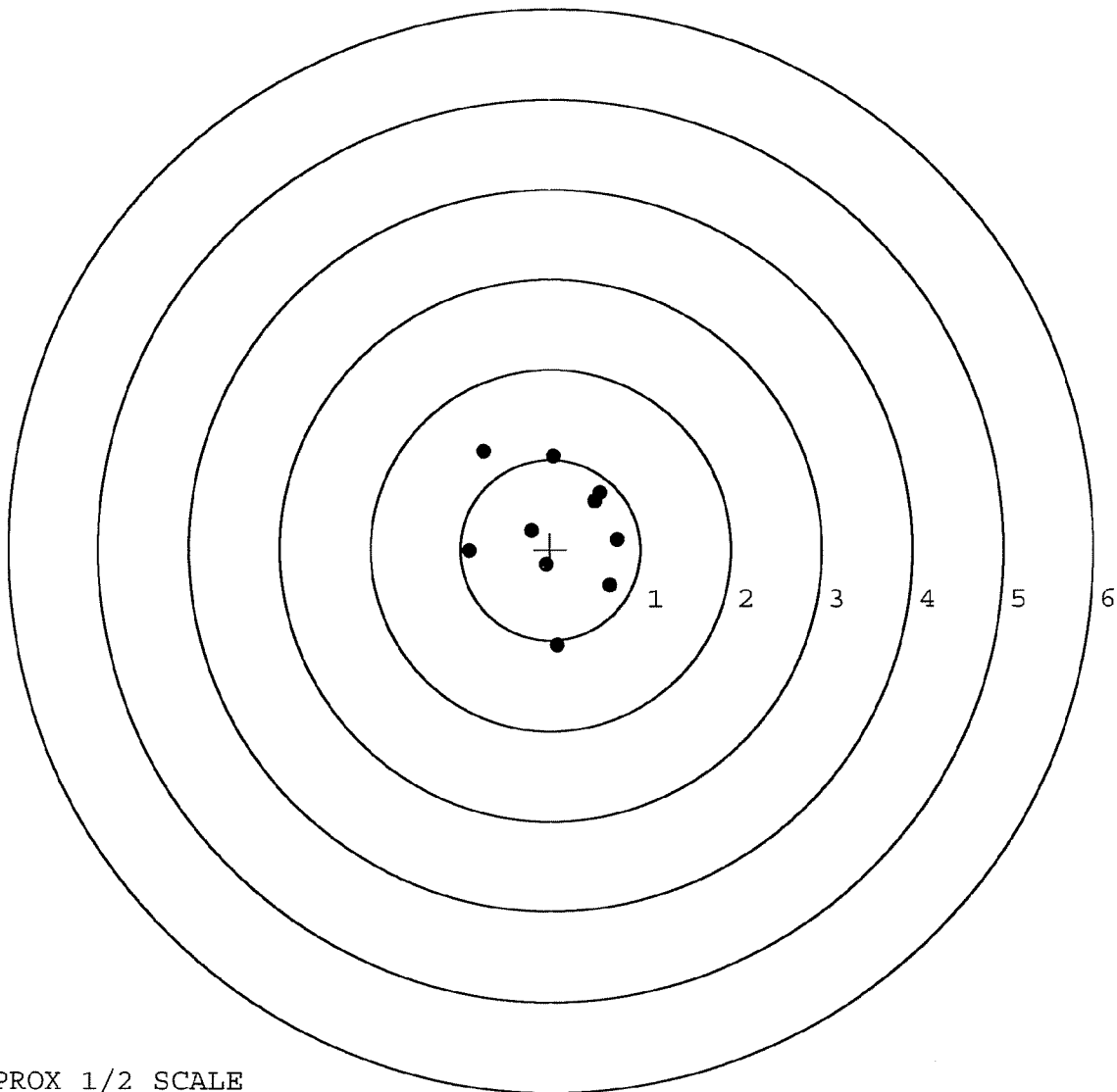
MAX RADIUS: 1.260

MEAN RADIUS: 0.769

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

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

R & E NUMBER	92546		
SERIAL NUMBER	C6587722		
LOG-IN DATE	2-7-05		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	3-14-05	RTL
560 A	RE-BARREL	3-17-05	RTL
B	DRILL AND TAP	3-21-05	TRW
575	ASSEMBLE	3-18-05	RTL
600	PROOF	3-21-05	A
605	CHECK HEADSPACE	3-21-05	A
610	DIS-ASSEMBLE GUN	3-21-05	RTL
612	MAGNAFLUX	3-21-05	
615	ROLLMARK CALIBER	3-23-05	CW
618	ROTO-BLAST	3/29	
620	APPLY COATINGS	4/5	HP
625 A	FINAL ASSEMBLY	4-13-05	RTL
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE	4-19-05	A
D	SAFETY "OFF" FORCE	4-19-05	A
E	FIRING PIN INDENT	4-19-05	A
640	TARGET	4-14-05	A
655	FINAL INSPECT	4-19-05	A
660	PACK	4-20-05	GA
		SHIP DATE	
QAR INSPECTION DATE			




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

MODEL 700™

20

H24

SERIAL NO.
C6587722

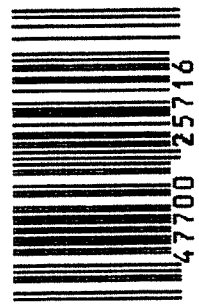
ORDER NO.
5716

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



5716 C6587722

UPC



0 47700 25716 7

ES PWD
OK

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6587722

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	70 9	90	RW
600	Proof	70 9	90	RW
607	Check Headspace	70 9	90	RW
610	Dis-assemble Gun	70 9	90	RW
612	Magnaflux Barrel Action		10/17/90	KR
	Magnaflux Bolt		"	KR
615	Rollmark Caliber		"	GL
617	Drill and Tap Sight Holes		10/18/90	LB
618	Polish Barrel RB		10/18/90	WB
620	Apply Coatings (Barrel Action)		11-5-90	JA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		11/12/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		11/12/90	RW
	C) Inspect Ejector Hole for Chamfer		11/12/90	RW
	D) Oil Firing Pin Ass'y		11/12/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		11-30-90	EL

op. #	OP. NAME	READINGS			DATE	INIT		
625 cont.	F) Safety On Force	2.5 4	2.5 4	2.5 4	12/3/90 11/30/90	WS JH		
	G) Safety Off Force	2.	2.0	2.	12/7/90	WS		
	H) Trigger Pull Test & Retainability				11/30/90	JH		
	I) Firing Pin Indent	.021	.021	.021	11/30/90	JH		
	J) Assemble Stock				12/6/90	RW		
	K) Assemble Swivel Studs				12-7-90	JS		
	L) Attach Front and Rear Sight Assemblies				12/6/90	RW		
	M) Iron Sight Alignment				12/6/90	RW		
	N) Detach Front & Rear Sights & place in numbered container				12/6/90	RW		
	O) Attach Scope to Rifle				12/6/90	RW		
	P) Detach & Attach Scope 20 Times				12/6/90	RW		
640	Gallery Target & Test				12-6-90	DH		
	A) Time				12-6-90	DH		
	B) Malfunctions				12-6-90	DH		
	C) Pierced Primers				12-6-90	DH		
	D) Optical Clarity of Scope				12-6-90	DH		
645	Inspect for Live Ammo				12-6-90	DH		
655	Final Inspection							
	A) Headspace				12-7-90	JS		
	B) Trigger Pull	236	241	255	238	249	12-7-90	JS
	C) Function						12-7-90	JS
660	Pack						12-8-90	DH

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6587722

DATE 11-30-90

TESTER Jff

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.25	2.21	2.23	2.36	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.27	2.30	2.31	2.41	
PULL #3	2.28	2.24	2.29	2.55	
PULL #4	2.30	2.26	2.25	2.38	
PULL #5	2.32	2.25	2.32	2.49	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.44	3.30		
PULL #2	3.37	3.31		
PULL #3	3.34	3.43		
PULL #4	3.27	3.32		
PULL #5	3.32	3.37		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.29	4.26		4.18
PULL #2	4.23	4.19		4.24
PULL #3	4.29	4.17		4.20
PULL #4	4.22	4.18		4.18
PULL #5	4.24	4.16		4.19
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06587722
6 Dec 1990

CENTROIDAL DISTANCES

0 TO 1	.143405
1 TO 2	.0460435
1 TO 3	.378842
1 TO 4	.563841
1 TO 5	.158392

$\frac{3}{43}$ <----POB

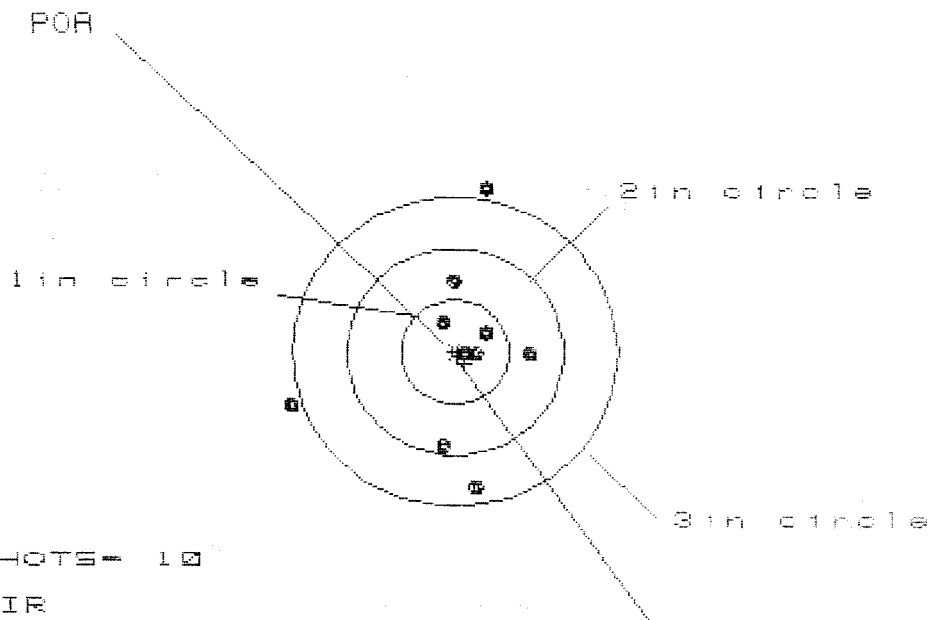
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.2019
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0452
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .236166

THE AMR FOR THIS RIFLE IS: .92

6 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587722

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1in = 4

2in = 7

3in = 8

HS= 2.146

VS= 2.895

GS= 2.895

CENTROID #

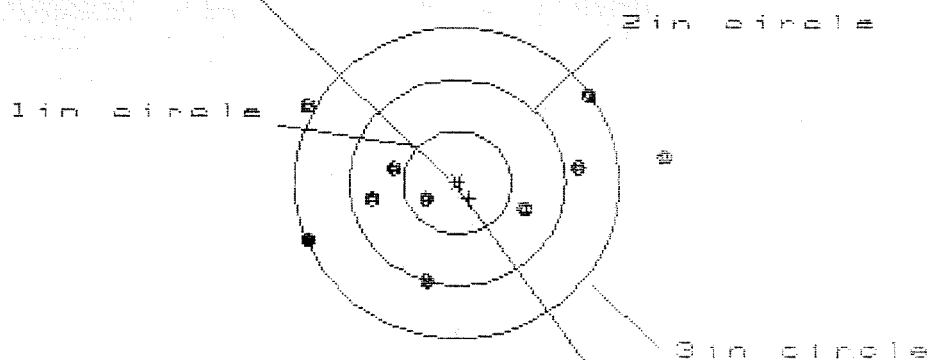
PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.662	.690	.508
MINIMUM X	:	-1.484	-1.456	-.301
MAXIMUM Y	:	1.581	.909	.863
MINIMUM Y	:	-1.314	-1.138	-1.184
CENTROID X	:	-.087	-.115	.067
CENTROID Y	:	.114	-.062	-.016
POR TO CENTROID in.	:	.144	.131	.069
MIN RADIUS	:	.129	.238	.073
MEAN RADIUS	:	.793	.733	.577
MAX RADIUS	:	1.601	1.501	1.106
HORIZONTAL SPREAD	:	2.146	2.146	.889
VERTICAL SPREAD	:	2.895	2.047	2.047
EXTREME SPREAD	:	2.895	2.218	2.062
NUMBER IN ONE INCH CIRCLE	=		4	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		8	

6 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06587722

CENTERFIRE PATTERNS # 2

POA



OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 7

HS= 3.318

VS= 1.754

GS= 3.412

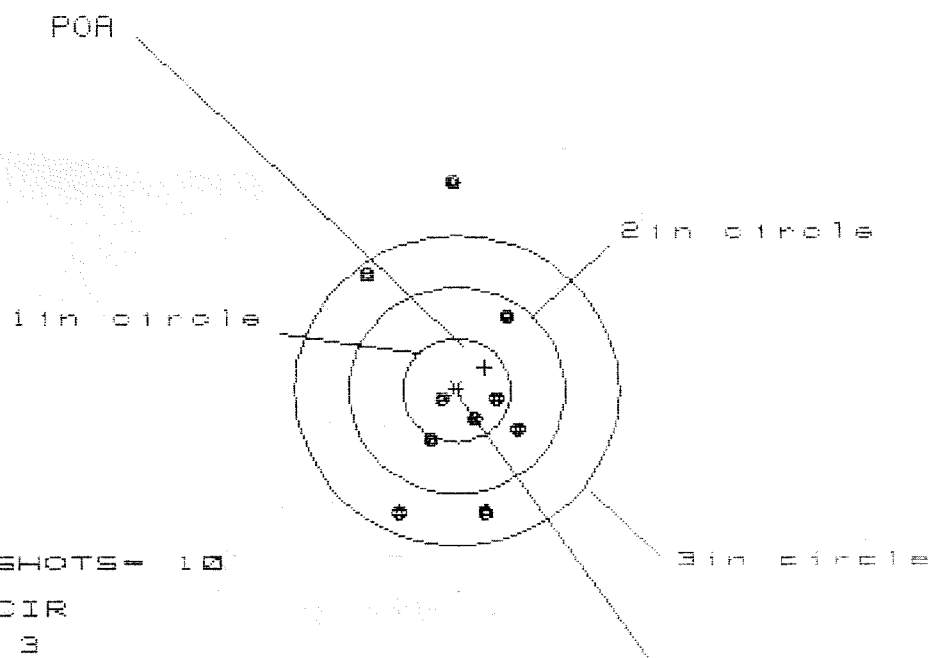
CENTROID #

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.918	1.377	1.235
MINIMUM X	:	-1.400	-1.187	-1.329
MAXIMUM Y	:	.815	.840	.935
MINIMUM Y	:	-.939	-.914	-.819
CENTROID X	:	-.113	-.326	-.184
CENTROID Y	:	.152	.127	.032
POA TO CENTROID in.	:	.190	.350	.187
MIN RADIUS	:	.316	.138	.212
MEAN RADIUS	:	1.082	.940	.894
MAX RADIUS	:	1.932	1.613	1.549
HORIZONTAL SPREAD	:	3.318	2.564	2.564
VERTICAL SPREAD	:	1.754	1.754	1.754
EXTREME SPREAD	:	3.412	2.911	2.911
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		7	

6 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/08587722

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 3

2in = 6

3in = 9

HS= 1.446

VS= 3.195

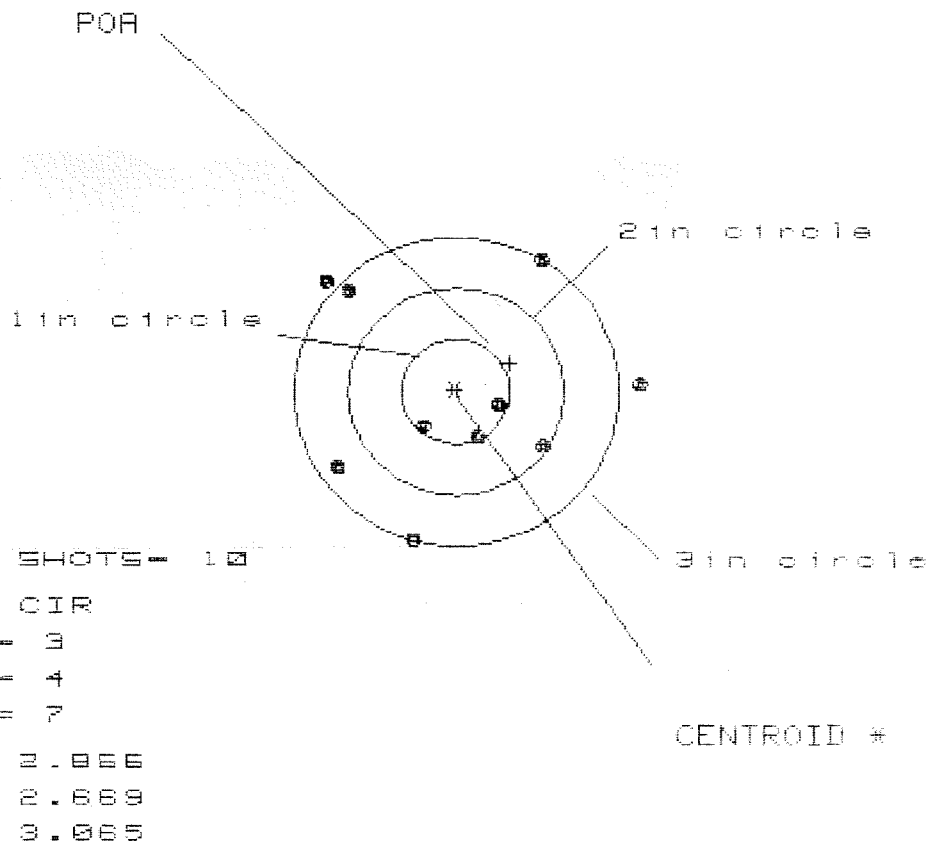
GS= 3.219

PATTERN #	3
SHOTS (BEST OF)	10
MAXIMUM X	.609
MINIMUM X	-.837
MAXIMUM Y	1.993
MINIMUM Y	-1.202
CENTROID X	-.262
CENTROID Y	-.443
POA TO CENTROID in.	.343
MIN RADIUS	.163
MEAN RADIUS	.892
MAX RADIUS	1.993
HORIZONTAL SPREAD	1.446
VERTICAL SPREAD	3.195
EXTREME SPREAD	3.219
NUMBER IN ONE INCH CIRCLE =	3
NUMBER IN TWO INCH CIRCLE =	6
NUMBER IN THREE INCH CIRCLE =	9

6 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8587722

CENTERFIRE PATTERNS # 4

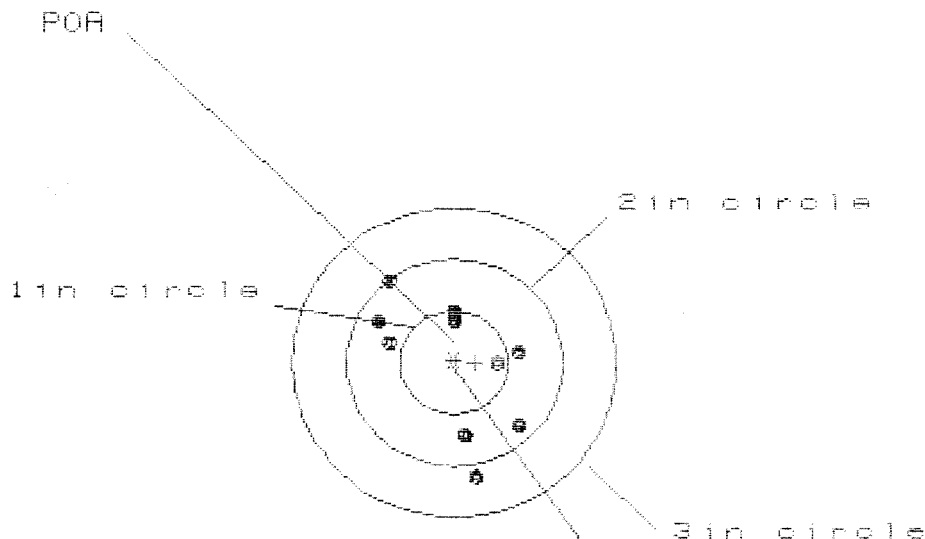


PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.684	1.029	.904
MINIMUM X	:	-1.182	-.994	-1.032
MAXIMUM Y	:	1.279	1.283	1.423
MINIMUM Y	:	-1.390	-1.386	-1.246
CENTROID X	:	-.498	-.686	-.561
CENTROID Y	:	-.272	-.276	-.416
POA TO CENTROID in.	:	.568	.739	.699
MIN RADIUS	:	.389	.287	.248
MEAN RADIUS	:	1.131	1.069	.967
MAX RADIUS	:	1.685	1.641	1.684
HORIZONTAL SPREAD	:	2.866	2.023	1.936
VERTICAL SPREAD	:	2.669	2.669	2.669
EXTREME SPREAD	:	3.065	2.953	2.953
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		7	

8 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587722

CENTERFIRE PATTERNS # 5



OF SHOTS= 10

IN CIR

1in = 2

2in = 8

3in = 10

HS= 1.334

VS= 1.943

GS= 2.111

CENTROID #

PATTERN #	5
SHOTS (BEST OF)	10
MAXIMUM X	.636
MINIMUM X	-.698
MAXIMUM Y	.809
MINIMUM Y	-1.134
CENTROID X	-.199
CENTROID Y	.002
POA TO CENTROID in.	.199
MIN RADIUS	.356
MEAN RADIUS	.702
MAX RADIUS	1.150
HORIZONTAL SPREAD	1.334
VERTICAL SPREAD	1.943
EXTREME SPREAD	2.111
NUMBER IN ONE INCH CIRCLE =	2
NUMBER IN TWO INCH CIRCLE =	8
NUMBER IN THREE INCH CIRCLE =	10