

C6587564

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.



Serial Number: C6587564
Model: M24 SWS

RE00086442

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6587564.__0
FILE DATE AND TIME: 11/05/2004 22:14

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.003
The Average Y Centroid of the Five Target Set:	-0.099
The Average Point of Impact of the Five Target Set:	0.099
The Average Mean Radius of the Five Target Set:	0.670
The Distance from POA to Centroid Target #1:	0.180
The Distance from Centroid Target #2 to Centroid Target #1:	0.137
The Distance from Centroid Target #3 to Centroid Target #1:	0.227
The Distance from Centroid Target #4 to Centroid Target #1:	0.202
The Distance from Centroid Target #5 to Centroid Target #1:	0.217

SERIAL NUMBER: C6587564. 0

TARGET NUMBER: 1

FILE DATE: 11/05/2004

FILE TIME: 22:14

X CENTROID: 0.032

Y CENTROID: -0.177

POA TO CENTROID: 0.180

HORZ SPREAD: 1.766

VERT SPREAD: 1.275

GROUP SPREAD: 1.769

MIN RADIUS: 0.212

MAX RADIUS: 0.927

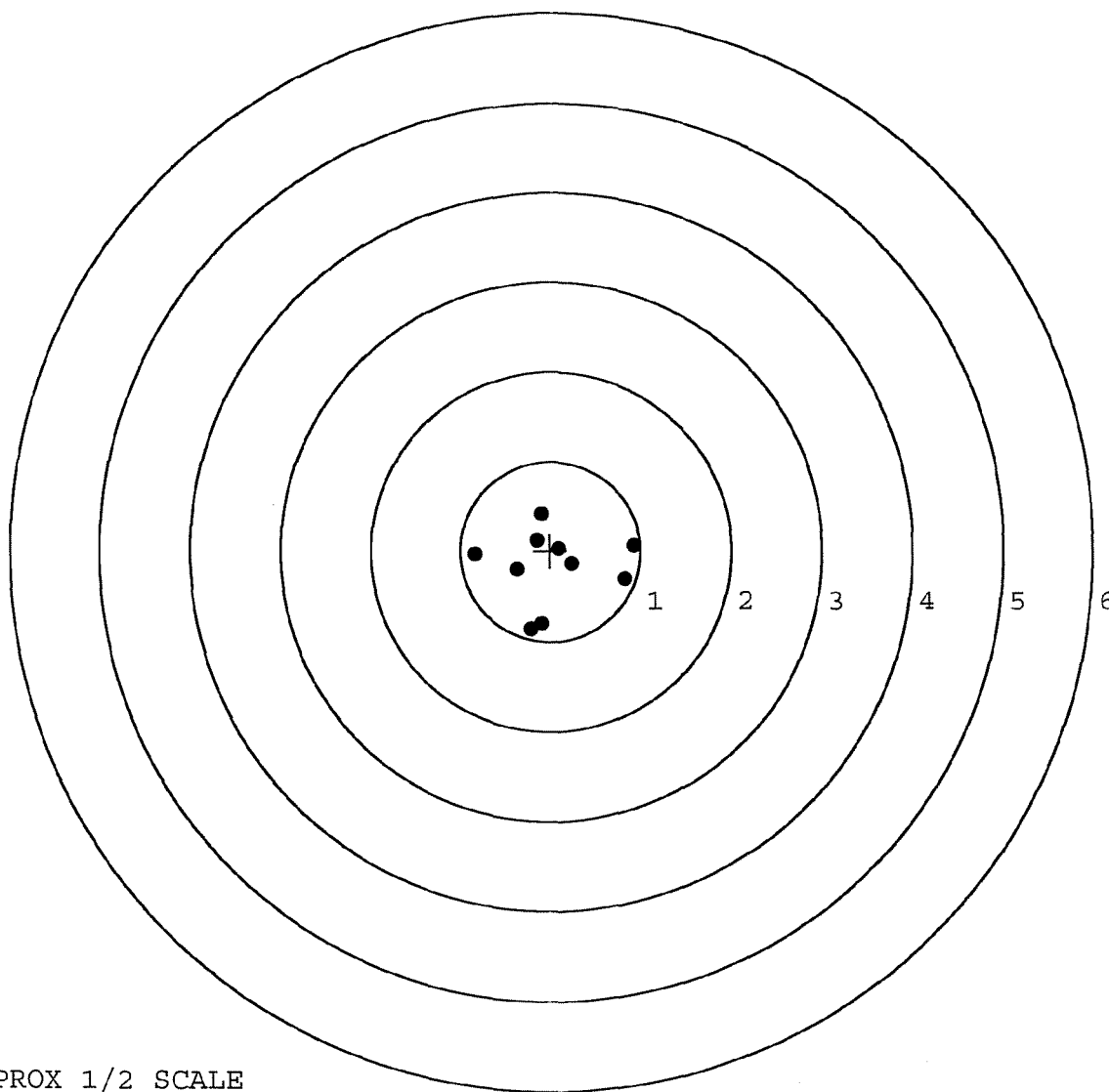
MEAN RADIUS: 0.578

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.831	-0.313
2:	0.927	0.065
3:	-0.096	-0.813
4:	-0.219	-0.867
5:	0.243	-0.141
6:	0.100	0.024
7:	-0.105	0.408
8:	-0.150	0.119
9:	-0.373	-0.208
10:	-0.839	-0.044



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587564. 0

TARGET NUMBER: 2

FILE DATE: 11/05/2004

FILE TIME: 22:14

X CENTROID: -0.105

Y CENTROID: -0.185

POA TO CENTROID: 0.213

HORZ SPREAD: 1.170

VERT SPREAD: 1.615

GROUP SPREAD: 1.705

MIN RADIUS: 0.051

MAX RADIUS: 1.024

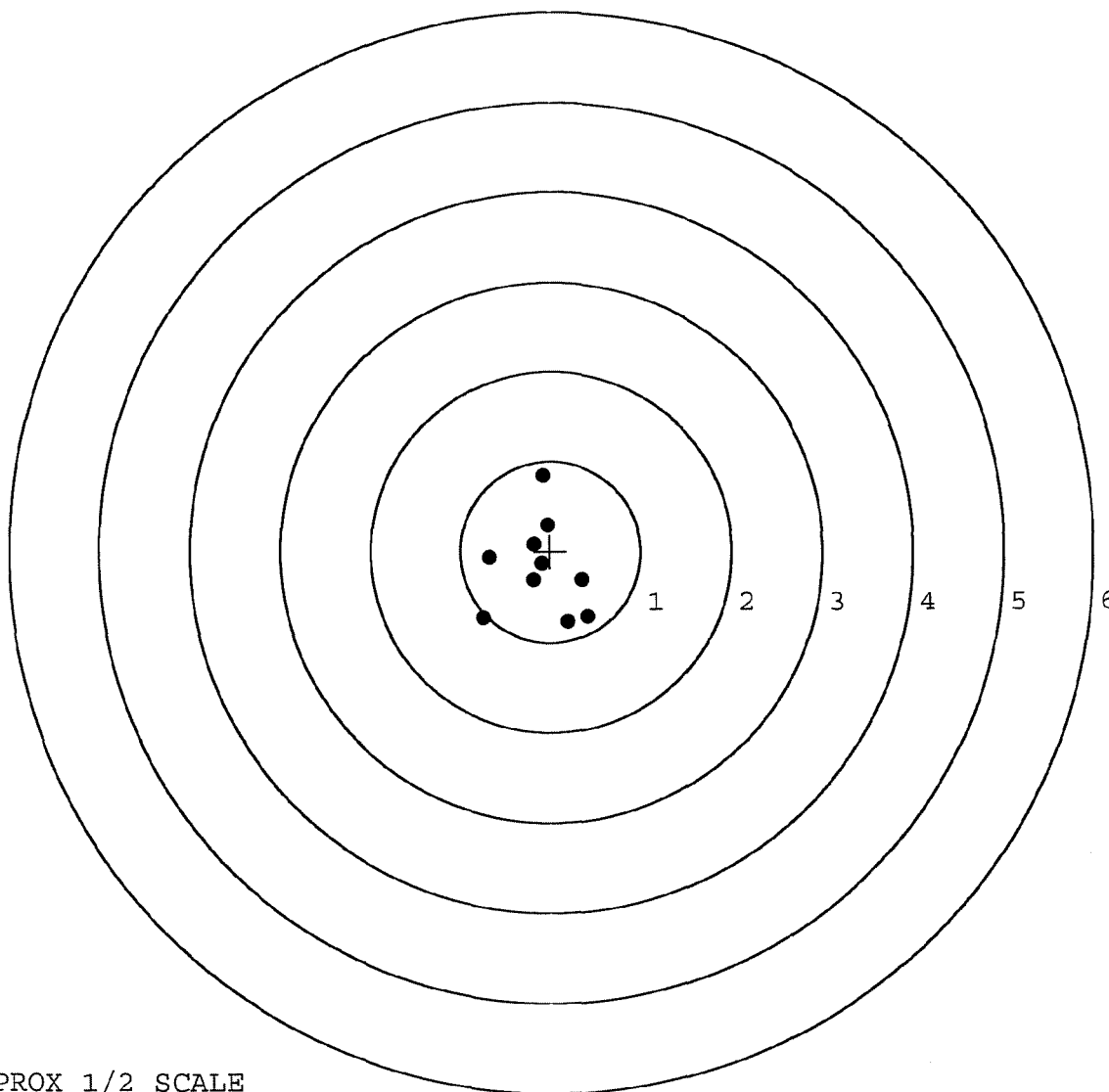
MEAN RADIUS: 0.530

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.195	-0.777
2:	0.417	-0.717
3:	0.357	-0.311
4:	-0.753	-0.729
5:	-0.679	-0.072
6:	-0.188	-0.315
7:	-0.095	-0.135
8:	-0.182	0.075
9:	-0.039	0.290
10:	-0.082	0.838



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587564. 0

TARGET NUMBER: 3

FILE DATE: 11/05/2004

FILE TIME: 22:14

X CENTROID: 0.003

Y CENTROID: 0.048

POA TO CENTROID: 0.048

HORZ SPREAD: 2.390

VERT SPREAD: 1.831

GROUP SPREAD: 2.949

MIN RADIUS: 0.292

MAX RADIUS: 1.509

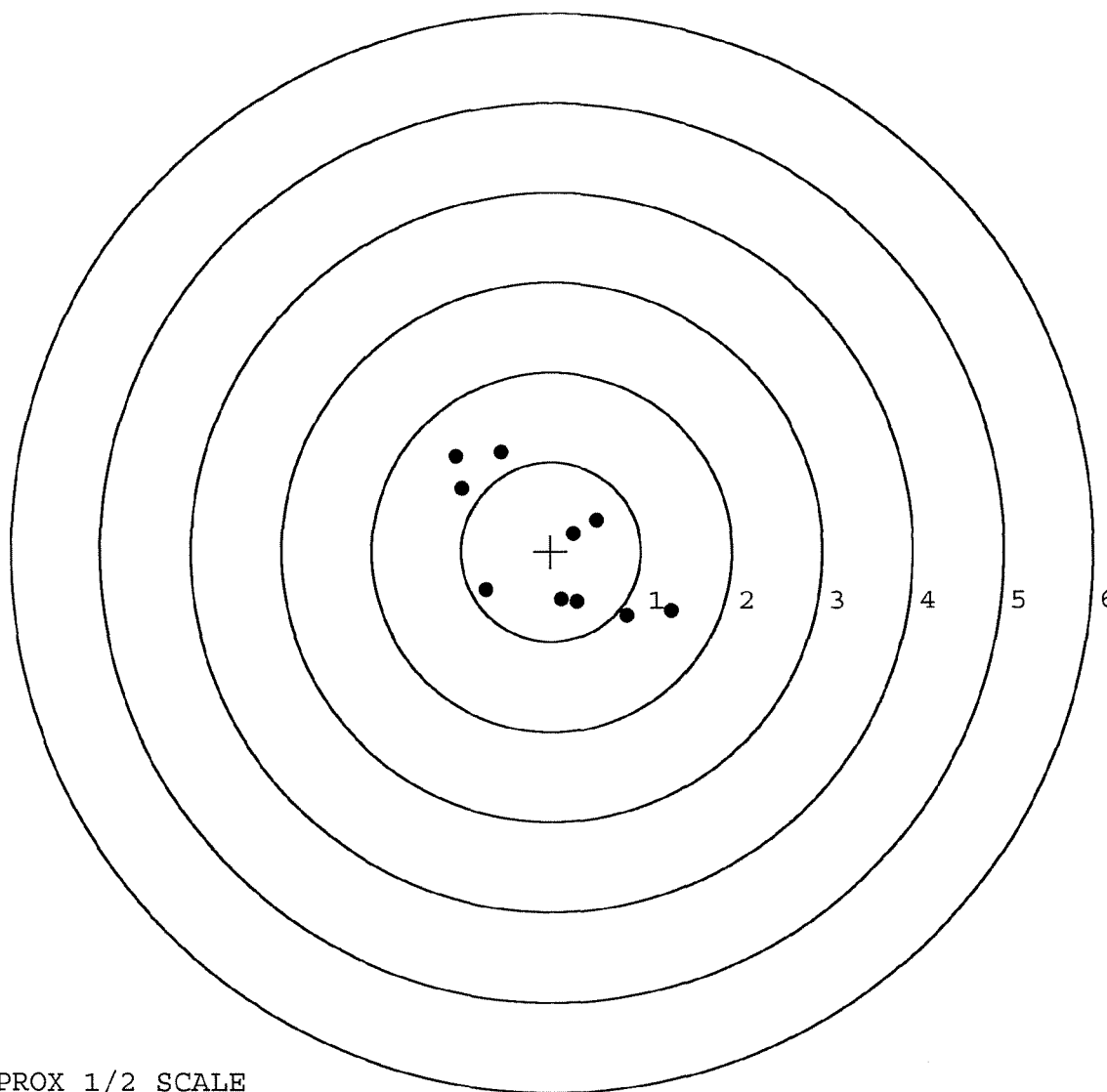
MEAN RADIUS: 0.954

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 5

in 3 IN DIAMETER: 9

POINT#	X	Y
1:	1.331	-0.667
2:	0.846	-0.724
3:	0.290	-0.570
4:	0.120	-0.542
5:	-0.723	-0.431
6:	0.254	0.197
7:	0.511	0.351
8:	-0.550	1.107
9:	-1.059	1.061
10:	-0.991	0.702



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587564. __0

TARGET NUMBER: 4

FILE DATE: 11/05/2004

FILE TIME: 22:14

POINT#	X	Y
1:	1.230	-0.973
2:	0.962	-0.967
3:	1.222	-0.343
4:	0.134	-0.486
5:	0.609	0.247
6:	0.375	0.322
7:	-0.061	0.393
8:	-0.289	0.746
9:	-0.842	0.104
10:	-1.049	-0.383

X CENTROID: 0.229

Y CENTROID: -0.134

POA TO CENTROID: 0.265

HORZ SPREAD: 2.279

VERT SPREAD: 1.719

GROUP SPREAD: 2.354

MIN RADIUS: 0.365

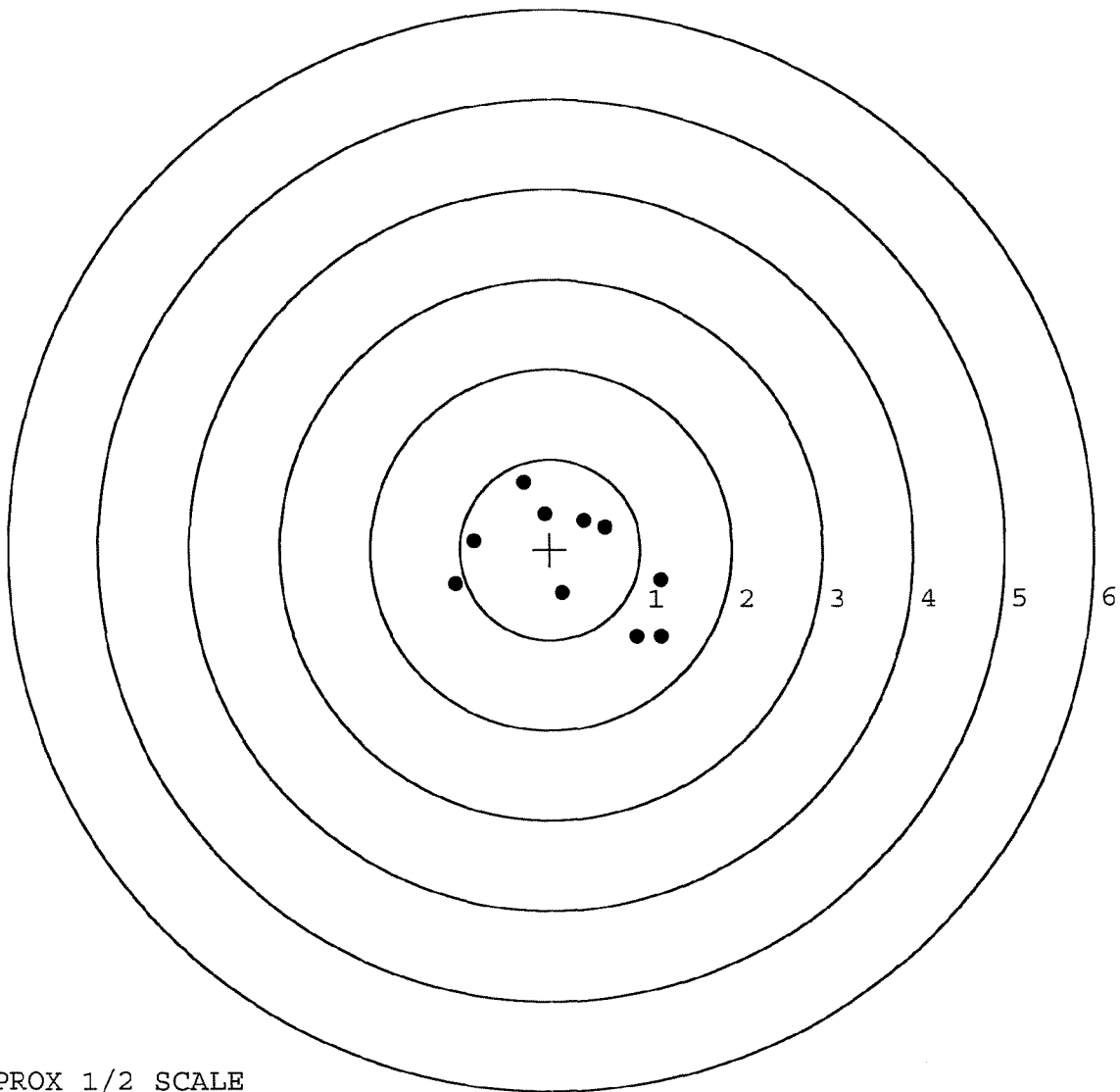
MAX RADIUS: 1.306

MEAN RADIUS: 0.883

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 4

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587564. __0

TARGET NUMBER: 5

FILE DATE: 11/05/2004

FILE TIME: 22:14

POINT#	X	Y
1:	-0.426	0.893
2:	-0.715	-0.176
3:	-0.261	-0.438
4:	0.231	-0.537
5:	0.270	-0.128
6:	-0.030	-0.108
7:	-0.398	-0.121
8:	-0.052	0.270
9:	0.016	0.014
10:	-0.054	-0.134

X CENTROID: -0.142

Y CENTROID: -0.046

POA TO CENTROID: 0.149

HORZ SPREAD: 0.985

VERT SPREAD: 1.430

GROUP SPREAD: 1.574

MIN RADIUS: 0.124

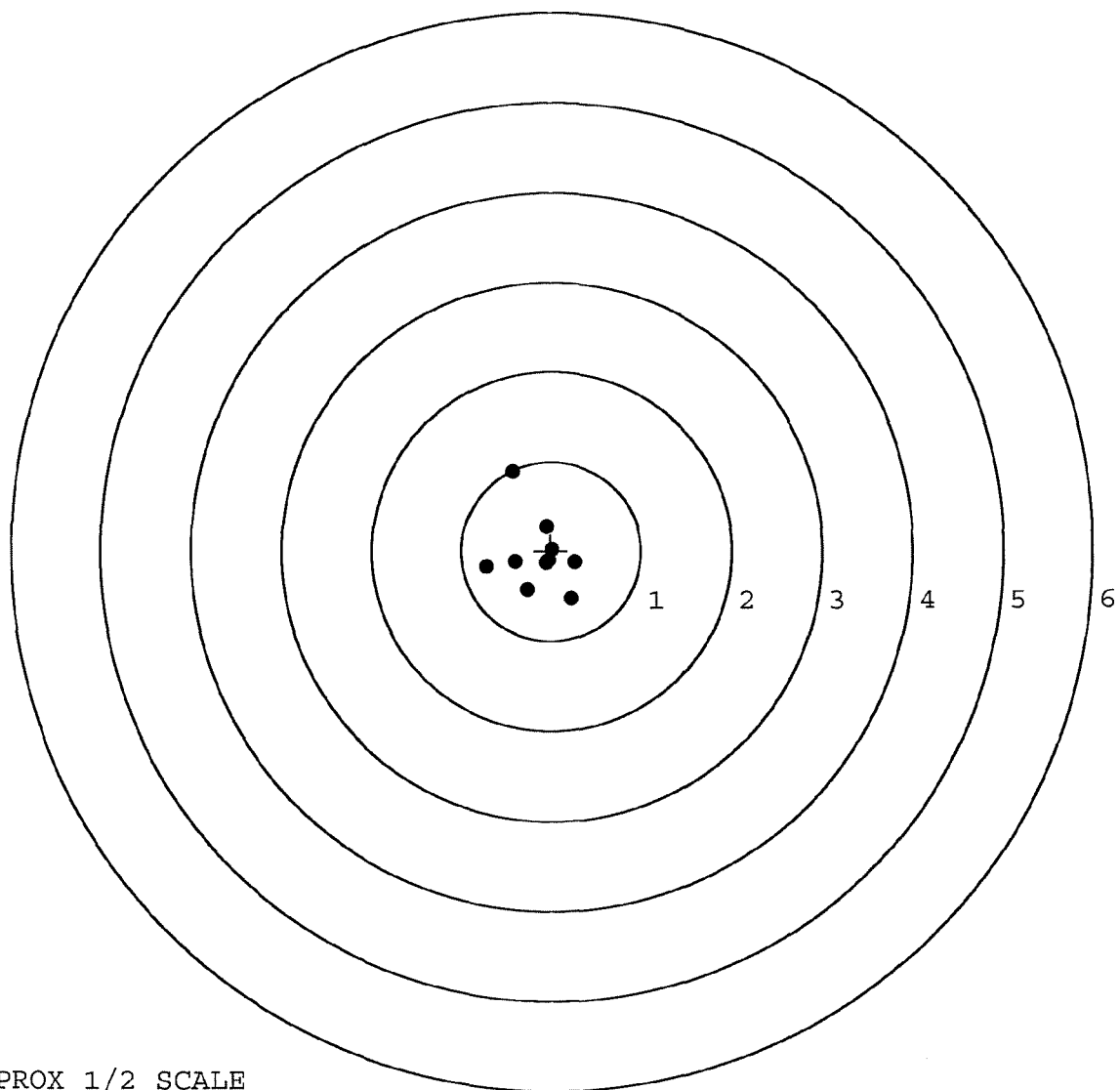
MAX RADIUS: 0.982

MEAN RADIUS: 0.403

IN 1 IN DIAMETER: 7

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

AVERAGE PULL FORCE BETWEEN
 INITIAL **BARBER - M24 0022793**
 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 10-11-04

TESTER TRG

	2.50 LBS INITIAL	2.50 LBS AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50 LBS		COMMENTS
PULL #1	2.26	2.40		2.31	
PULL #2	2.31	2.41		2.31	
PULL #3	2.29	2.45		2.38	
PULL #4	2.39	2.38		2.43	
PULL #5	2.32	2.41		2.30	
TOTAL	11.57	12.05		11.73	
AVERAGE	2.31	2.41		2.34	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES		COMMENTS
PULL #1	3.46	3.23		
PULL #2	3.45	3.04		
PULL #3	3.43	3.26		
PULL #4	3.39	3.18		
PULL #5	3.38	3.24		
TOTAL	17.11	15.95		
AVERAGE	3.42	3.19		

	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	4.36	4.13		4.34
PULL #2	4.20	3.85		4.21
PULL #3	4.05	3.97		4.15
PULL #4	4.16	4.48		4.27
PULL #5	4.19	4.11		4.40
TOTAL	20.96	20.54		21.37
AVERAGE	4.19	4.10		4.27

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

R & E NUMBER	86442		
SERIAL NUMBER	C6587564		
LOG-IN DATE	10-14-04		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	10-14-04	RTL
560 A	RE-BARREL	10-16-04	RTL
B	DRILL AND TAP	10-19-04	TRW
575	ASSEMBLE	10-16-04	RTL
600	PROOF	10-18-04	RTL
605	CHECK HEADSPACE	10-18-04	RTL
610	DIS-ASSEMBLE GUN	10-19-04	RTL
612	MAGNAFLUX		
615	ROLLMARK CALIBER	10/20/04	AB
618	ROTO-BLAST	10-22-04	LB
620	APPLY COATINGS	10/20/04	HP
625 A	FINAL ASSEMBLY	11-4-04	RTL
B	TRIGGER PULL TEST	11-8-04	RTL
C	SAFETY "ON" FORCE	11-8-04	RTL
D	SAFETY "OFF" FORCE	11-8-04	RTL
E	FIRING PIN INDENT		
640	TARGET	11-5-04	TRW
655	FINAL INSPECT	11-8-04	RTL
660	PACK	11-8-04	RA
		SHIP DATE	
QAR INSPECTION DATE			

Remington®
REG. U.S. PAT. & TM. OFF.

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

MODEL 700™ H24

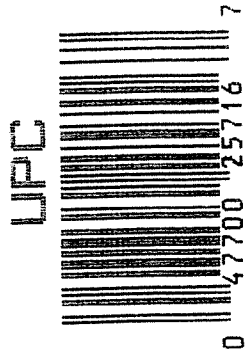
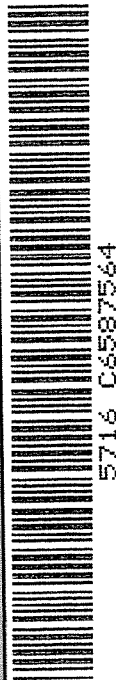
VERY IMPORTANT:
Instruction Book
enclosed to assure
safe use of this
firearm.

SERIAL NO.
C6587564

ORDER NO.
5716

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



CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6587564

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		10/19/90	KA
600	Proof		10/19/90	Kel
607	Check Headspace		10/19/90	Kel
610	Dis-assemble Gun		10/19/90	KA
612	Magnaflux Barrel Action		10/22/90	KR
	Magnaflux Bolt		10/22/90	KR
615	Rollmark Caliber		10/22/90	J.S.
617	Drill and Tap Sight Holes		10/27/90	FB
618	Polish Barrel RB		10/24/90	WB
620	Apply Coatings (Barrel Action)		11-1-90	JA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		11/8/90	KS
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		11/8/90	KS
	C) Inspect Ejector Hole for Chamfer		11/8/90	KS
	D) Oil Firing Pin Ass'y		11/8/90	KS
	E) Adjust Trigger Pull to Min Setting and Stake		11-10-90	JH

op. #	BARBER - M24 0022797 OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4.0	4.0	4.25			11-9-90	KT
	G) Safety Off Force	2.5	2.5	2.5			11-9-90	KT
	H) Trigger Pull Test & Retainability						11-10-90	9C/
	I) Firing Pin Indent	.022	0.22	.023			11-9-90	KT
	J) Assemble Stock						11-10-90	KS
	K) Assemble Swivel Studs						11/11/90	DS
	L) Attach Front and Rear Sight Assemblies						11/10/90	KS
	M) Iron Sight Alignment						11/10/90	KS
	N) Detach Front & Rear Sights & place in numbered container						11/10/90	KS
	O) Attach Scope to Rifle						11/10/90	KS
	P) Detach & Attach Scope 20 Times						11/14/90	KS
640	Gallery Target & Test						11/13/90	NF
	A) Time						"	NF
	B) Malfunctions						"	NF
	C) Pierced Primers						"	NF
	D) Optical Clarity of Scope						"	NF
645	Inspect for Live Ammo						11/13/90	NF
655	Final Inspection						11/19/90	DS
	A) Headspace						11/19/90	DS
	B) Trigger Pull	220	220	220	224	227	11/19/90	DS
	C) Function						11/19/90	DS
660	Pack						12/17/90	DH

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6587664

DATE 11-10-90

TESTER 98

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.51	2.36	2.34	2.20	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.35	2.38	2.31	2.20	
PULL #3	2.33	2.31	2.34	2.20	
PULL #4	2.34	2.34	2.32	2.24	
PULL #5	2.35	2.33	2.37	2.27	
TOTAL	11.88	11.72	11.68		
AVG.	2.376	2.344	2.336		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.37	3.18		
PULL #2	3.30	3.19		
PULL #3	3.54	3.35		
PULL #4	3.52	3.36		
PULL #5	3.40	3.38		
TOTAL	17.13	16.44		
AVG.	3.426	3.288		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.24	4.51		4.27
PULL #2	4.49	4.48		4.36
PULL #3	4.49	4.24		4.39
PULL #4	4.46	4.38		4.35
PULL #5	4.51	4.39		4.18
TOTAL	22.19	22.00		21.53
AVG.	4.438	4.4		4.306

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6587564
14 Nov 1990

CENTROIDAL DISTANCES

0 TO	1	.0581808
1 TO	2	.158521
1 TO	3	.314341
1 TO	4	.126827
1 TO	5	.117393

3 (----POA

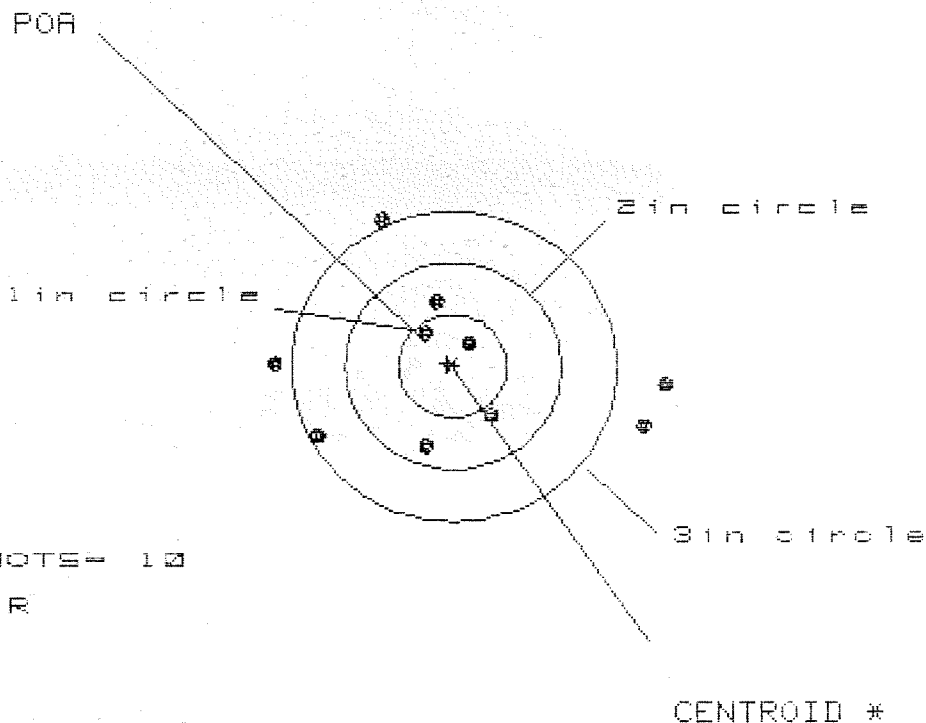
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0276
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.1336
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .136421

THE AMR FOR THIS RIFLE IS: 1.071

14 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8587564

CENTERFIRE PATTERNS # 1



OF SHOTS= 10

IN CIR

1 in = 2

2 in = 5

3 in = 6

HS= 3.612

VS= 2.241

CS= 3.616

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.930	1.939	.760
MINIMUM X	-1.682	-1.468	-1.226
MAXIMUM Y	1.423	1.408	1.336
MINIMUM Y	-.818	-.833	-.905
CENTROID X	.051	-.163	-.406
CENTROID Y	-.028	-.013	.059
POA TO CENTROID in.	.059	.164	.410
MIN RADIUS	.305	.282	.311
MEAN RADIUS	1.118	1.014	.895
MAX RADIUS	1.935	2.023	1.345
HORIZONTAL SPREAD	3.612	3.407	1.986
VERTICAL SPREAD	2.241	2.241	2.241
EXTREME SPREAD	3.616	3.459	2.277
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	6		

14 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/08587564

CENTERFIRE PATTERNS # 2

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS- 10

IN CIR

1 in = 3

2 in = 6

3 in = 10

HS= 1.787

VS= 2.146

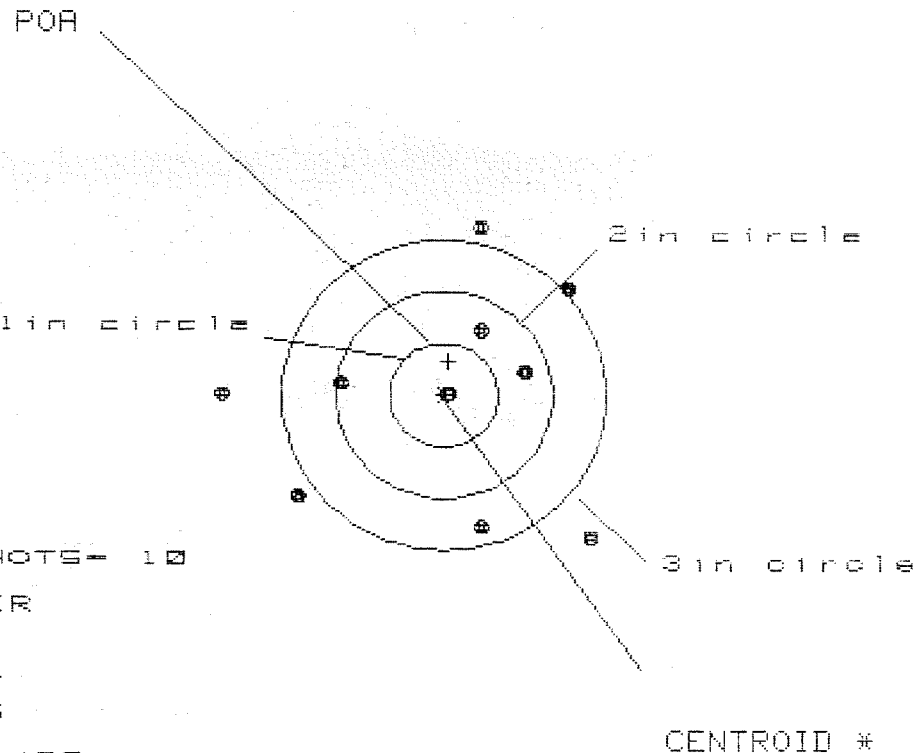
GS= 2.424

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.930	.886	.971
MINIMUM X	:	-.857	-.901	-.816
MAXIMUM Y	:	.969	.838	.472
MINIMUM Y	:	-1.177	-.676	-.571
CENTROID X	:	-.101	-.057	-.142
CENTROID Y	:	-.073	.058	-.047
POA TO CENTROID in.	:	.125	.081	.150
MIN RADIUS	:	.304	.277	.257
MEAN RADIUS	:	.764	.702	.636
MAX RADIUS	:	1.243	1.123	1.000
HORIZONTAL SPREAD	:	1.787	1.787	1.787
VERTICAL SPREAD	:	2.146	1.514	1.043
EXTREME SPREAD	:	2.424	2.189	2.067
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		10	

14 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06587564

CENTERFIRE PATTERNS # 3



OF SHOTS - 10

IN CIR

1 in = 1

2 in = 4

3 in = 5

HS = 3.477

VS = 2.989

GS = 3.772

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.384	1.151	1.040
MINIMUM X	:	-2.093	-1.626	-1.482
MAXIMUM Y	:	1.582	1.588	1.413
MINIMUM Y	:	-1.407	-1.401	-1.450
CENTROID X	:	-.046	.187	.043
CENTROID Y	:	-.327	-.333	-.158
POA TO CENTROID in.	:	.330	.382	.164
MIN RADIUS	:	.075	.209	.115
MEAN RADIUS	:	1.275	1.169	1.056
MAX RADIUS	:	2.094	1.883	1.861
HORIZONTAL SPREAD	:	3.477	2.777	2.522
VERTICAL SPREAD	:	2.989	2.989	2.863
EXTREME SPREAD	:	3.772	3.199	3.199
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		5	

14 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587584

CENTERFIRE PATTERNS

4

POA

1 in circle

2 in circle

3 in circle

OF SHOTS- 10

IN CIR

1 in = 0

2 in = 4

3 in = 8

HS= 2.362

VS= 2.603

GS= 3.299

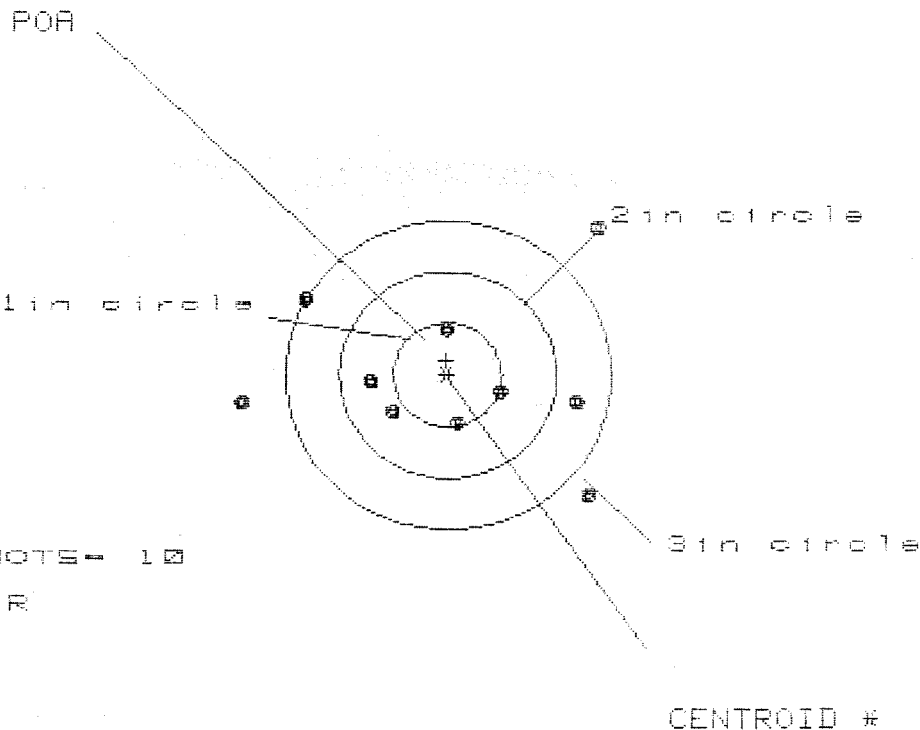
CENTROID #

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.251	1.353	1.226
MINIMUM X	:	-1.111	-1.009	-1.083
MAXIMUM Y	:	1.204	1.048	.735
MINIMUM Y	:	-1.399	-.926	-.795
CENTROID X	:	-.052	-.154	-.027
CENTROID Y	:	-.102	.054	-.077
POA TO CENTROID in.	:	.114	.163	.082
MIN RADIUS	:	.574	.427	.552
MEAN RADIUS	:	1.092	1.012	.952
MAX RADIUS	:	1.672	1.488	1.350
HORIZONTAL SPREAD	:	2.362	2.362	2.309
VERTICAL SPREAD	:	2.603	1.974	1.530
EXTREME SPREAD	:	3.299	2.892	2.548
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		8	

14 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/085875B4

CENTERFIRE PATTERNS # 5



OF SHOTS = 10

IN CIR

1in = 1

2in = 5

3in = 7

HB = 3.281

VB = 2.542

GB = 3.667

CENTROID #

PATTERN #	5	5	5
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.370	1.435	1.215
MINIMUM X	-1.911	-1.759	-1.332
MAXIMUM Y	1.413	.936	.928
MINIMUM Y	-1.129	-.973	-.981
CENTROID X	.010	-.142	.078
CENTROID Y	-.138	-.295	-.287
POA TO CENTROID in.	.139	.328	.297
MIN RADIUS	.407	.425	.349
MEAN RADIUS	1.105	.992	.879
MAX RADIUS	1.968	1.760	1.623
HORIZONTAL SPREAD	3.281	3.194	2.547
VERTICAL SPREAD	2.542	1.989	1.989
EXTREME SPREAD	3.667	3.320	3.183
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	7		