

C6594610

MODEL 700™ M24

Model S&S™

Action _____

Barrel Length _____

Capacity _____

Order No. 5715

*Includes 1 in chamber.

Remington

Arms Services Repair & Estimate System

File Add Repair Estimate Repair Expedite Repair Inquiry Repair Tools CSR Tools Reports Table Maintenance System Maintenance Help

Repair Inquiry

Repair Number: RE00147280

Serial: C6594610 Model M24 SWS Center Fire
Caliber: 7.62 NATO

Repairman:

Status:

Closed 7/7/2008 10:42:14 AM

Verify Repair

Address Information

Customer:

☒ Received From

Return To:

☐ Received From

Name:

Address 1:

Address 2: 1757 VANDENBERG AVE

PO Box:

City: MCGUIRE AFB

State: NJ

Zip Code: 08641

Country: US

1757 VANDENBERG AVE

PO Box:

MCGUIRE AFB

State: NJ

Zip Code: 08641

Country: US

FFL:

Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

Contact Information

Phone: NN

Fax:

Email:

Comments:

Received Condition

Fair

Condition
Notes:CSR
Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	3
A010	Hard Case	1
A017	Scope Base	1
A026	Scope	1
D000	REAR SIGHT BASE	1

Repair Search

Refresh

Close

nagletj

7/7/2008

2:37 PM

CAPS

NUM

INS

SCRL



2:37 PM

Reset

Number: C6594610

Model: M24 SWS



RE00147280

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

R & B NUMBER

147280

SERIAL NUMBER

C6594610

LOG-IN DATE

7-7-08

OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	8-7-08	RTZ
505	RE-BARREL	8-8-08	RTZ
560	ASSEMBLE	8-8-08	RTZ
600	PROOF	8-8-08	TRW
605	CHECK HEADSPACE	8-8-08	TRW
610	DIS-ASSEMBLE GUN	8-9-08	RTZ
612	MAGNAFLUX	9-2-08	BH
510	DRILL AND TAP	7-7-08	SL
615	ROLLMARK CALIBER	8/3/08	RT
618	ROTO-BLAST	9/3/08	DG
620	APPLY COATINGS	9/8/	CR
625	FINAL ASSEMBLY	9-15-08	RTZ
640	FUNCTION TEST AND	10-20-08	RTZ
650	TARGET	10-20-08	RTZ
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION	10-22-08	RTZ
	A) HEADSPACE	10-22-08	RTZ
	B) TRIGGER PULL	2.49 2.48 2.47 2.50 2.58 10-22-08	TL
680	F) SAFETY ON FORCE	8.0 8.0 8.0 10-22-08	RTZ
	G) SAFETY OFF FORCE	7.0 7.0 7.0 10-22-08	RTZ
	I) FIRING PIN INDENT	-0.23 -0.23 -0.23 10-22-08	RTZ
690	PACK	10/22/08	FM

MAGNA - FLUX

SEP 12 2008

OPERATOR BH

PASS

FAIL

PASS

FAIL

CORRECTION

CORRECTION

CORRECTION

CORRECTION

PASS

FAIL

+/- .5 LBS
 MIN 2.50 LBS
 MAX 4.0 LBS

2 LBS MIN
 10 LBS MAX

2 LBS
 MAX

.020

BARBER - M24 0020203

 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)

 DATE 7-30-08

 TESTER RP

	2.50 LBS INITIAL	2.50 LBS AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50 LBS		COMMENTS
PULL #1	2.55	2.34		2.37	
PULL #2	2.59	2.41		2.30	
PULL #3	2.64	2.36		2.30	
PULL #4	2.66	2.36		2.29	
PULL #5	2.65	2.21		2.32	
TOTAL	13.09	11.68		12.49 ^{RP} 11.58	
AVERAGE	2.61	2.33		2.31	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES		COMMENTS
PULL #1	3.21	3.01		
PULL #2	3.12	3.06		
PULL #3	3.28	3.10		
PULL #4	3.21	3.17		
PULL #5	3.19	3.15		
TOTAL	16.01	15.49		
AVERAGE	3.20	3.09		

	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	4.21	4.20		4.23
PULL #2	4.27	4.18		4.31
PULL #3	4.28	4.21		4.31 ^{RP} 4.31
PULL #4	4.26	4.23		4.30
PULL #5	4.29	4.25		4.33
TOTAL	21.31	21.07		21.48
AVERAGE	4.26	4.21		4.29

Arms Services Repair & Estimate System

File Add Repair Estimate Repair Expedite Repair Inquiry Repair Tools CSR Tools Reports Table Maintenance System Maintenance Help

Repair Inquiry

Repair Number: RE00147280

Serial: C6594610 Model M24 SWS Center Fire
Caliber: 7.62 NATO Produced: 03/20/1991

Repairman:

Status: Closed 7/7/2008 10:42:14 AM

Verify Repair

Address Information

Customer:

Received From

Return To:

Received From

Name:

Address 1:

Address 2: 1757 VANDENBERG AVE

PO Box:

City: MCGUIRE AFB

State: NJ

Zip Code: 08641

Country: US

1757 VANDENBERG AVE

PO Box:

MCGUIRE AFB

State: NJ

Zip Code: 08641

Country: US

FFL:

Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

Date	Code	User ID	Desc1
7/7/2008 10:40:1	New	valentds	Repair Added
7/7/2008 10:42:1	Closed	valentds	Closed at Expedite

- ☐ Shipping Hold
- ☐ InterFace Hold
- ☐ Estimate Sent
- ☐ Parts Received
- ☐ Passed Inspection
- ☐ Return As Received
- ☐ Has been Approved
- ☐ Internal Repair

Current Status

Closed

7/7/2008 10:42:14 AM

valentds

Sniper Systems

Repair Location

ILN

Current Location

ILN

Transfer Number

Repair Search

Refresh

Close

nagletj

9/15/2008

1:05 PM

CAPS

NUM

INS

SCRL



1:05 PM

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6594610.__0
FILE DATE AND TIME: 10/21/2008 13:29

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.109
The Average Y Centroid of the Five Target Set:	0.095
The Average Point of Impact of the Five Target Set:	0.145
The Average Mean Radius of the Five Target Set:	0.928
The Distance from POA to Centroid Target #1:	0.172
The Distance from Centroid Target #2 to Centroid Target #1:	0.141
The Distance from Centroid Target #3 to Centroid Target #1:	0.205
The Distance from Centroid Target #4 to Centroid Target #1:	0.079
The Distance from Centroid Target #5 to Centroid Target #1:	0.559

SERIAL NUMBER: C6594610. __0

TARGET NUMBER: 1

FILE DATE: 10/21/2008

FILE TIME: 13:29

X CENTROID: -0.165

Y CENTROID: -0.050

POA TO CENTROID: 0.172

HORZ SPREAD: 1.902

VERT SPREAD: 4.047

GROUP SPREAD: 4.230

MIN RADIUS: 0.436

MAX RADIUS: 2.520

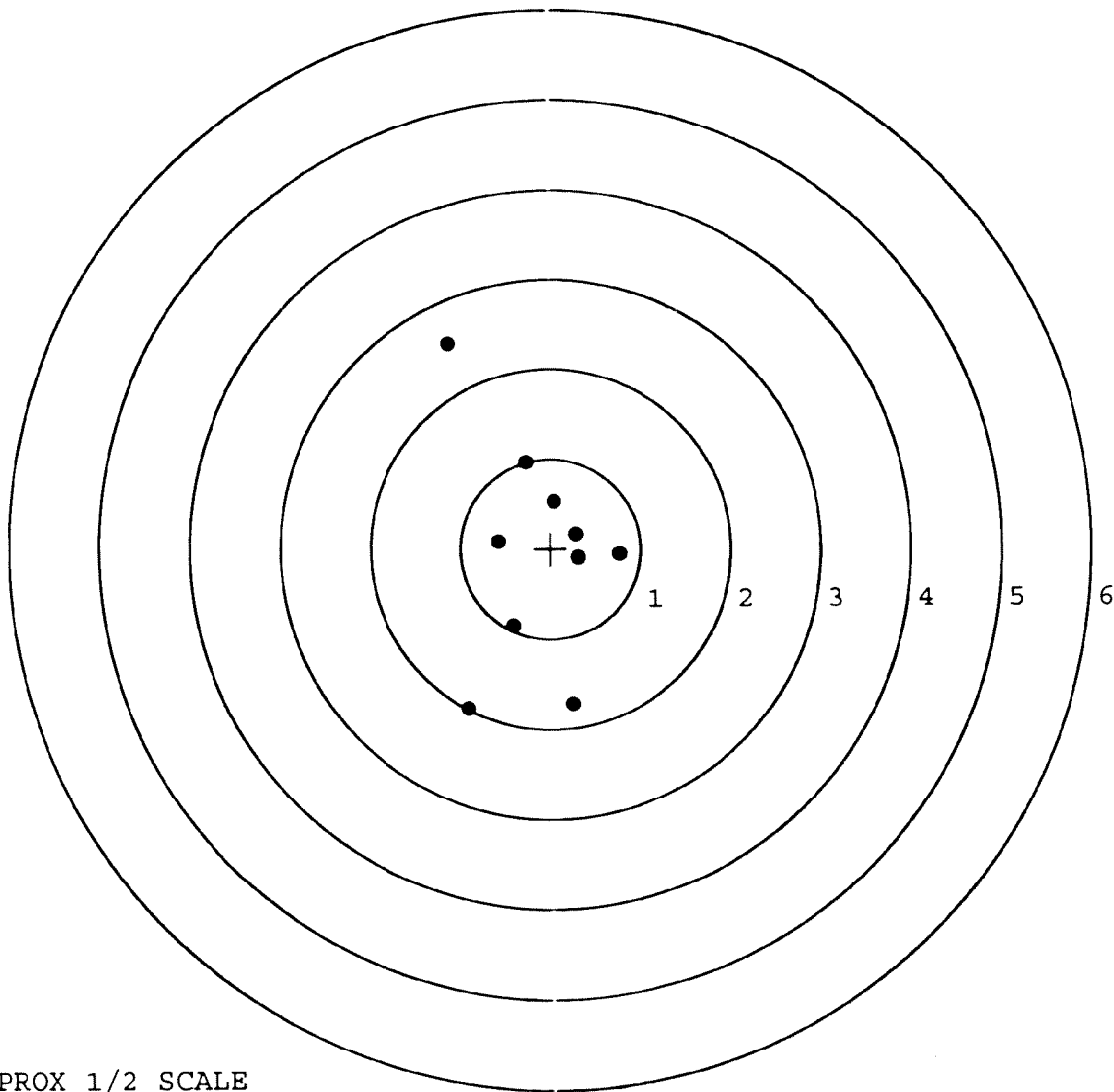
MEAN RADIUS: 1.096

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 7

POINT#	X	Y
1:	-1.132	2.277
2:	-0.925	-1.770
3:	0.250	-1.721
4:	-0.415	-0.857
5:	-0.580	0.084
6:	-0.267	0.961
7:	0.045	0.530
8:	0.770	-0.063
9:	0.317	-0.103
10:	0.290	0.164



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6594610. __0

TARGET NUMBER: 2

FILE DATE: 10/21/2008

FILE TIME: 13:29

X CENTROID: -0.033

Y CENTROID: 0.000

POA TO CENTROID: 0.033

HORZ SPREAD: 1.440

VERT SPREAD: 2.243

GROUP SPREAD: 2.243

MIN RADIUS: 0.337

MAX RADIUS: 1.234

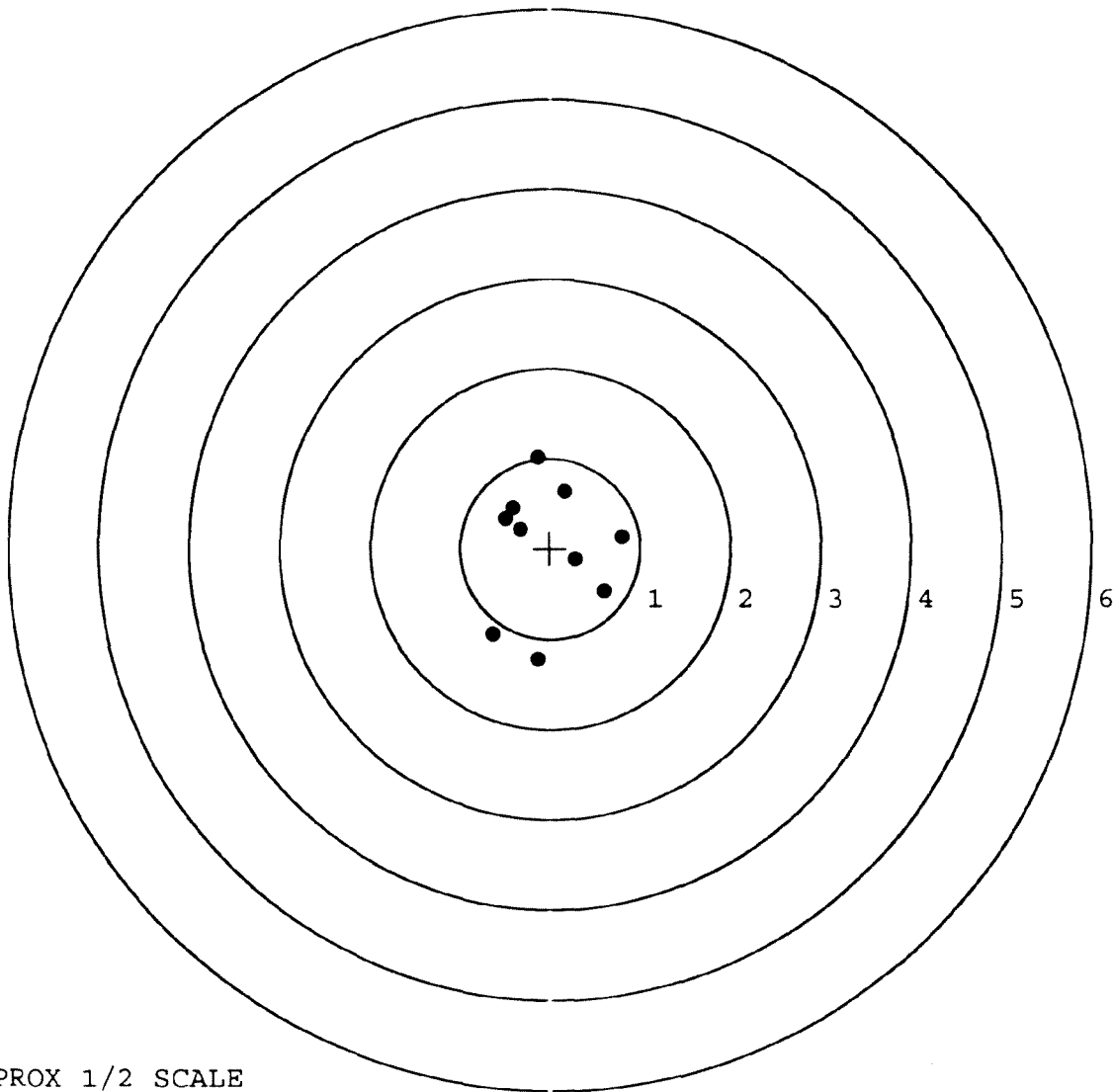
MEAN RADIUS: 0.754

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.134	-1.230
2:	-0.646	-0.947
3:	0.602	-0.473
4:	0.794	0.127
5:	0.284	-0.116
6:	-0.136	1.013
7:	0.164	0.632
8:	-0.505	0.333
9:	-0.416	0.448
10:	-0.335	0.209



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6594610. 0

TARGET NUMBER: 3

FILE DATE: 10/21/2008

FILE TIME: 13:29

X CENTROID: -0.039

Y CENTROID: 0.113

POA TO CENTROID: 0.119

HORZ SPREAD: 1.801

VERT SPREAD: 2.748

GROUP SPREAD: 3.217

MIN RADIUS: 0.160

MAX RADIUS: 1.769

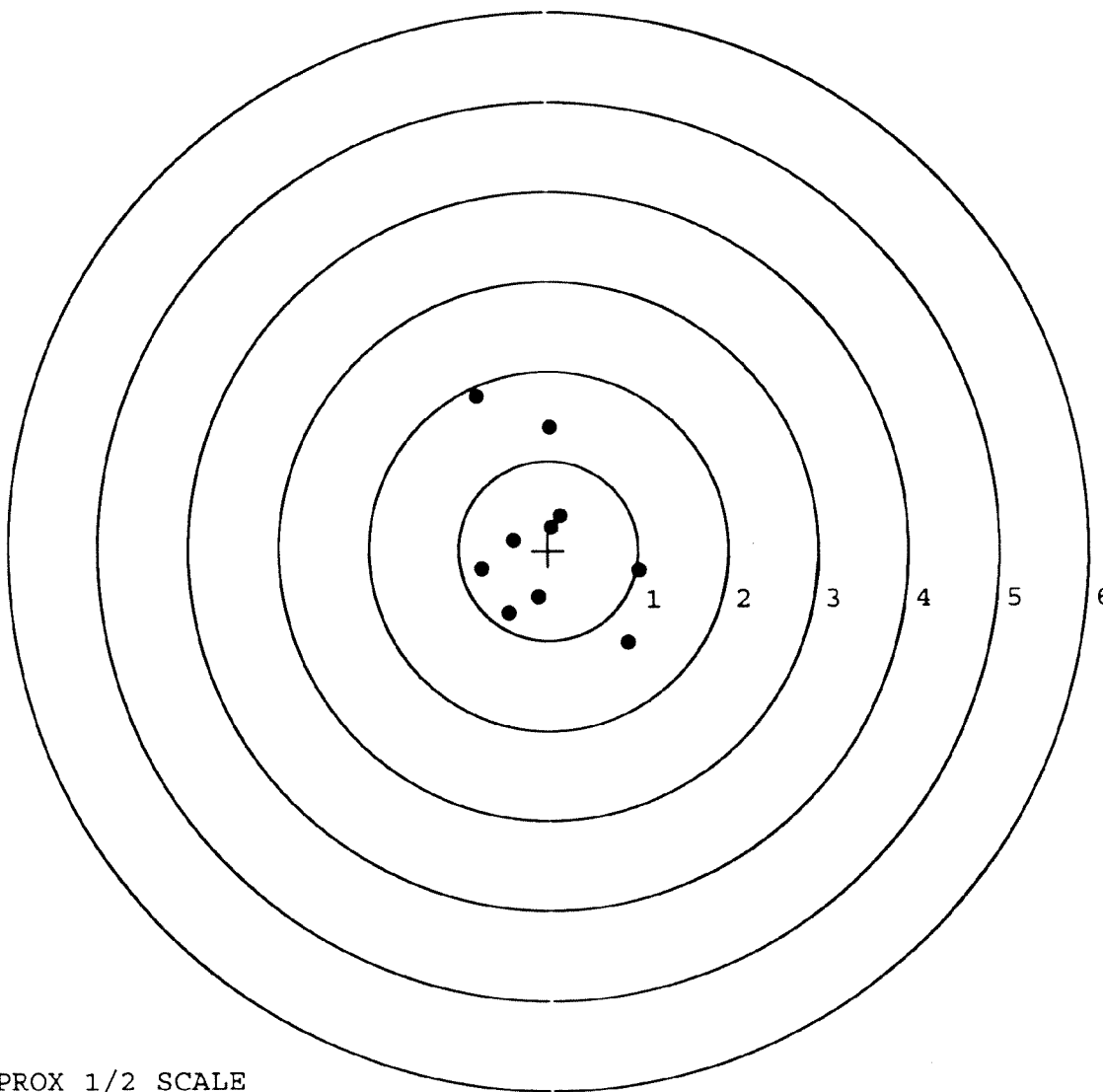
MEAN RADIUS: 0.877

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 9

POINT#	X	Y
1:	-0.790	1.715
2:	0.020	1.368
3:	0.883	-1.033
4:	1.011	-0.229
5:	-0.741	-0.207
6:	-0.441	-0.703
7:	-0.117	-0.532
8:	-0.392	0.110
9:	0.035	0.254
10:	0.138	0.385



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6594610. 0

TARGET NUMBER: 4

FILE DATE: 10/21/2008

FILE TIME: 13:29

X CENTROID: -0.233

Y CENTROID: -0.090

POA TO CENTROID: 0.250

HORZ SPREAD: 1.892

VERT SPREAD: 2.629

GROUP SPREAD: 2.957

MIN RADIUS: 0.158

MAX RADIUS: 1.650

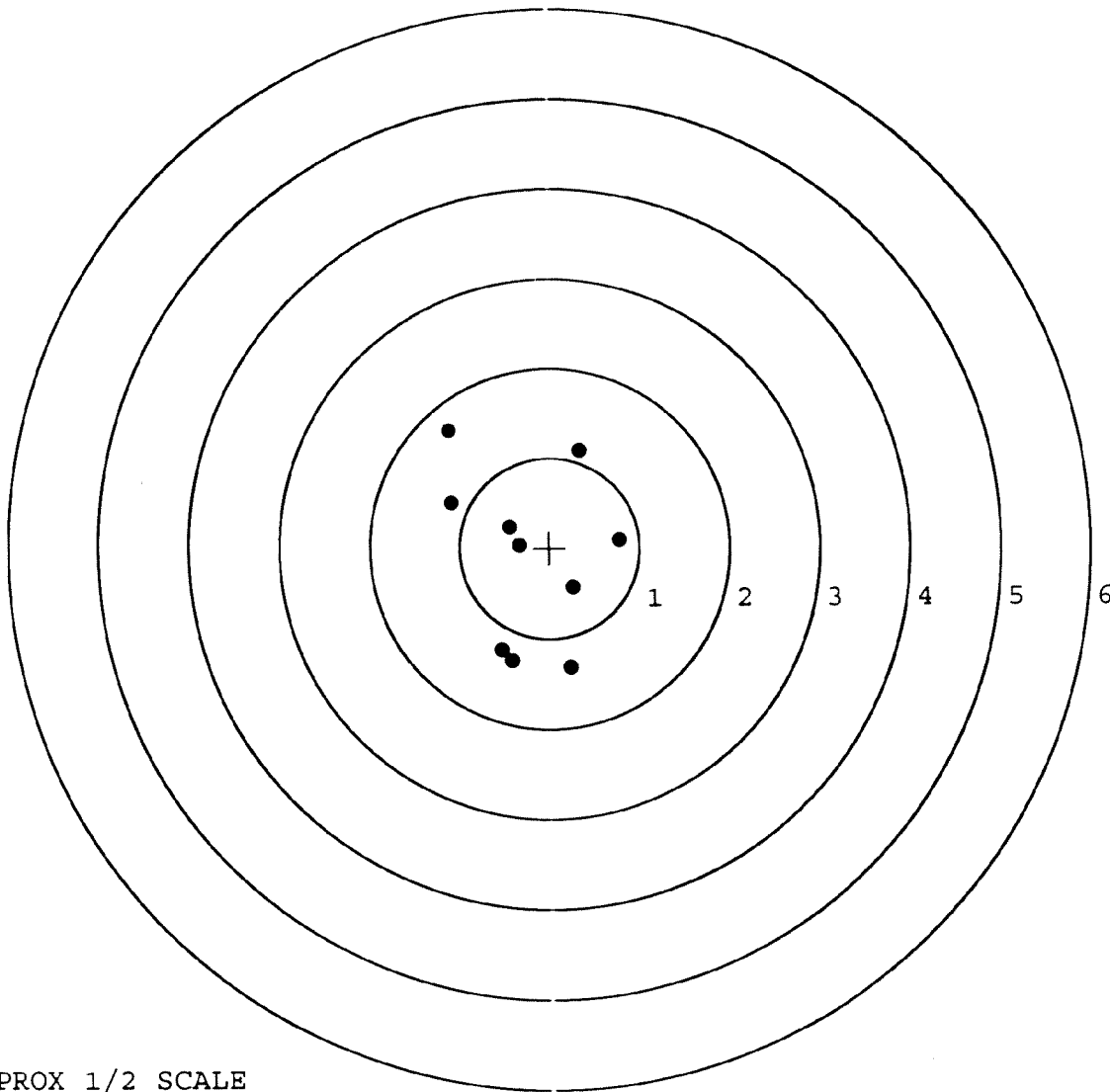
MEAN RADIUS: 0.975

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 3

in 3 IN DIAMETER: 9

POINT#	X	Y
1:	-1.115	1.304
2:	0.342	1.084
3:	-0.539	-1.130
4:	-0.426	-1.251
5:	0.239	-1.325
6:	-1.091	0.498
7:	-0.442	0.232
8:	-0.338	0.028
9:	0.777	0.093
10:	0.263	-0.435



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6594610. 0

TARGET NUMBER: 5

FILE DATE: 10/21/2008

FILE TIME: 13:29

X CENTROID: -0.077

Y CENTROID: 0.502

POA TO CENTROID: 0.508

HORZ SPREAD: 1.685

VERT SPREAD: 3.544

GROUP SPREAD: 3.689

MIN RADIUS: 0.307

MAX RADIUS: 2.489

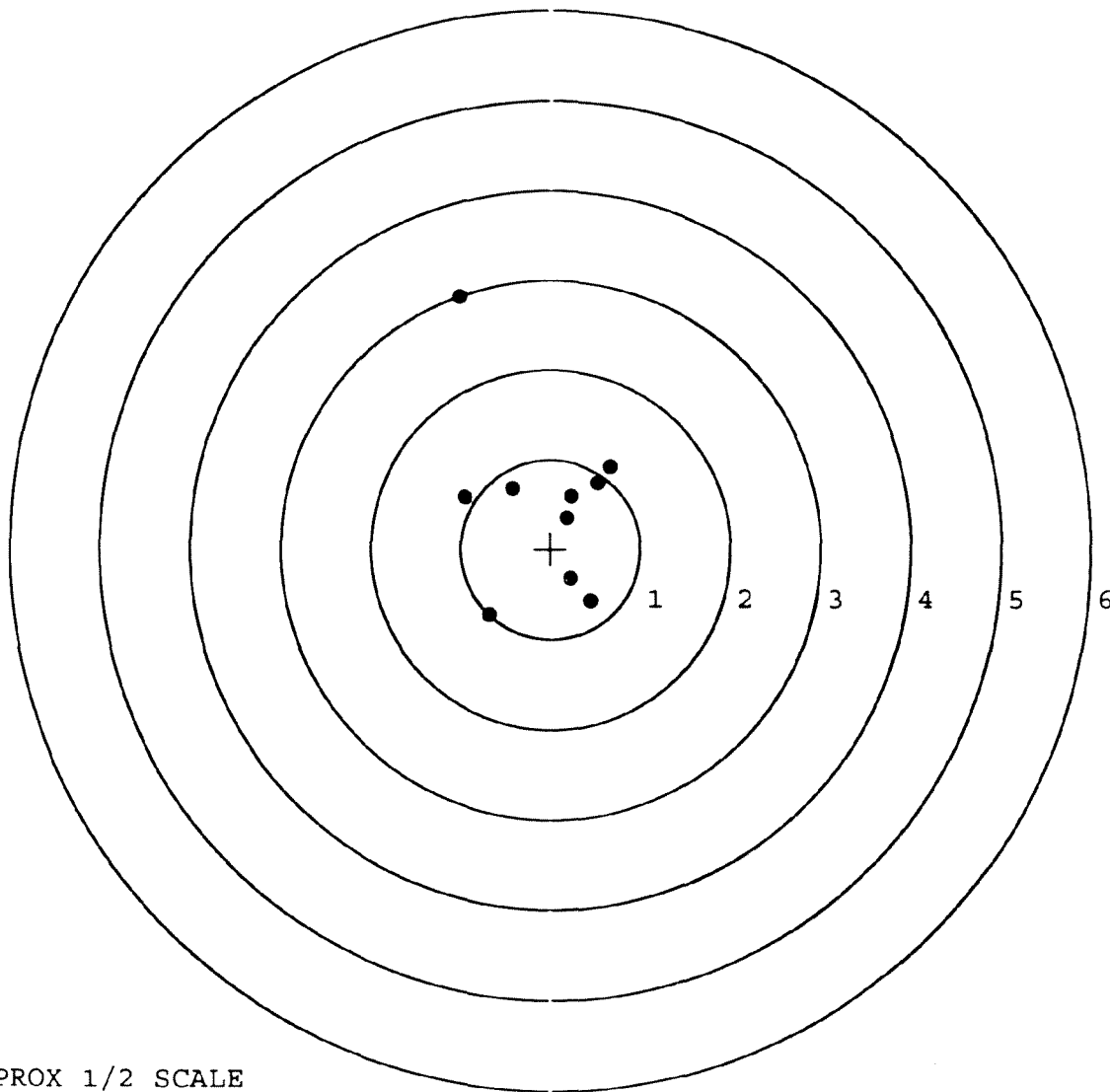
MEAN RADIUS: 0.937

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 9

POINT#	X	Y
1:	-1.014	2.808
2:	-0.955	0.576
3:	-0.682	-0.736
4:	-0.420	0.679
5:	0.671	0.926
6:	0.533	0.745
7:	0.238	0.588
8:	0.186	0.344
9:	0.228	-0.330
10:	0.448	-0.579



TARGET APPROX 1/2 SCALE

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

MODEL 700TM H24

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

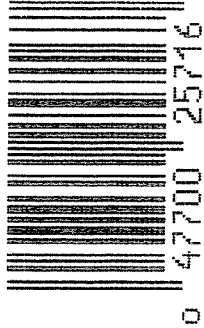
VERY IMPORTANT: Instruction Book enclosed to assure safe use of this firearm.

SERIAL NO.
C6594610

ORDER NO.
5716



LPC



CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6594610

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		12/27/90	K.S.
600	Proof		12/27/90	K.S.
607	Check Headspace		12/27/90	K.S.
610	Dis-assemble Gun		12/27/90	K.S.
612	Magnaflux Barrel Action		1-7-91	KR
	Magnaflux Bolt		1-7-91	KR
615	Rollmark Caliber		1-7-91	DS.
617	Drill and Tap Sight Holes	1	10-9-1	F.B.
618	Polish Barrel	1	10-9-1	W.B.
620	Apply Coatings (Barrel Action)		1-26-91	TH
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		2/12/91	K.S.
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		2/12/91	K.S.
	C) Inspect Ejector Hole for Chamfer		2/2/91	K.S.
	D) Oil Firing Pin Ass'y		2/12/91	K.S.
	E) Adjust Trigger Pull to Min Setting and Stake		2/14/91	SH

BARBER - M24 0020213

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4 1/2	4 1/2	4 1/2			2/14/91	WB
	G) Safety Off Force	2 1/4	2 1/4	2 1/4			2/14/91	WB
	H) Trigger Pull Test & Retainability						2/14/91	X
	I) Firing Pin Indent	.020	.020	.020			2/14/91	WB
	J) Assemble Stock						2/15/91	KH
	K) Assemble Swivel Studs						3-11-91	DH
	L) Attach Front and Rear Sight Assemblies						2/15/91	KH
	M) Iron Sight Alignment						2/15/91	KH
	N) Detach Front & Rear Sights & place in numbered container						2/15/91	KH
	O) Attach Scope to Rifle						2/15/91	KH
	P) Detach & Attach Scope 20 Times						2/15/91	KH
640	Gallery Target & Test						2-15-91	NE
	A) Time						"	NE
	B) Malfunctions						"	NE
	C) Pierced Primers						"	NE
	D) Optical Clarity of Scope						"	NE
645	Inspect for Live Ammo						2-15-91	NE
655	Final Inspection							
	A) Headspace						3-11-91	DH
	B) Trigger Pull	234	229	225	221	225	2/19/91	WB
	C) Function						3-11-91	DH
660	Pack						3-20-91	DH

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO. C6594610

DATE 2/14/91

TESTER JR

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.27	2.24	2.24	2.34	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.36	2.26	2.27	2.29	
PULL #3	2.32	2.25	2.27	2.25	
PULL #4	2.29	2.23	2.20	2.21	
PULL #5	2.29	2.26	2.28	2.25	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.22	3.45		
PULL #2	3.51	3.46		
PULL #3	3.52	3.45		
PULL #4	3.48	3.32		
PULL #5	3.48	3.44		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.33	4.34		4.18
PULL #2	4.23	4.15		4.33
PULL #3	4.15	4.11		4.29
PULL #4	4.25	4.13		4.28
PULL #5	4.29	4.14		4.17
TOTAL				
AVG.				

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

NEW TRIGGER

SERIAL NO. C 6594610

DATE 3/7/91

TESTER WB

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#	COMMENTS
PULL #1	2.54	2.45	2.57	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.43	2.63	2.39	
PULL #3	2.46	2.64	2.50	
PULL #4	2.35	2.60	2.44	
PULL #5	2.50	2.41	2.43	
TOTAL	12.28	12.73	12.33	
AVG.	2.45	2.55	2.46	

	3.00# INITIAL	3.00# AFTER 20 CYCLES	COMMENTS
PULL #1	3.25	3.39	
PULL #2	3.22	3.43	
PULL #3	3.24	3.36	
PULL #4	3.28	3.39	
PULL #5	3.33	3.34	
TOTAL	16.32	16.91	
AVG.	3.26	3.38	

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.19	4.25		3.94
PULL #2	4.17	4.25		3.90
PULL #3	4.13	4.34		3.96
PULL #4	4.08	4.24		3.89
PULL #5	4.19	4.34		3.93
TOTAL	20.77	21.42		19.72
AVG.	4.15	4.28		3.94

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # -06594610
15 Feb 1991

CENTROIDAL DISTANCES

0 TO	1	.153942
1 TO	2	.0574282
1 TO	3	.264824
1 TO	4	.260377
1 TO	5	.204137

0.0

<----POA

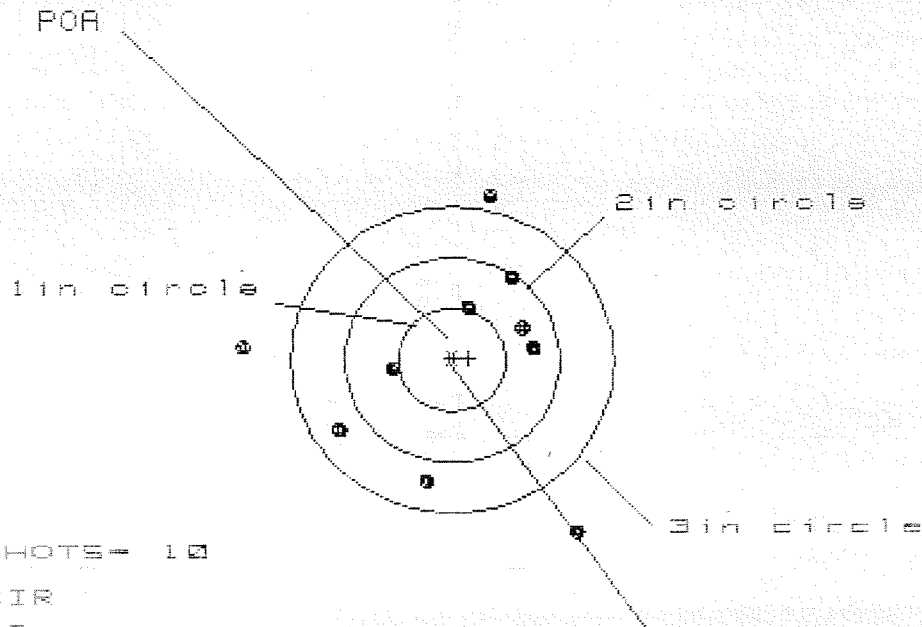
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0388
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0204
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0438361

THE AMR FOR THIS RIFLE IS: .926

15 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8594610

CENTERFIRE PATTERNS # 1



OF SHOTS = 10

IN CIR

1 in = 0

2 in = 4

3 in = 7

HS = 3.105

VS = 3.307

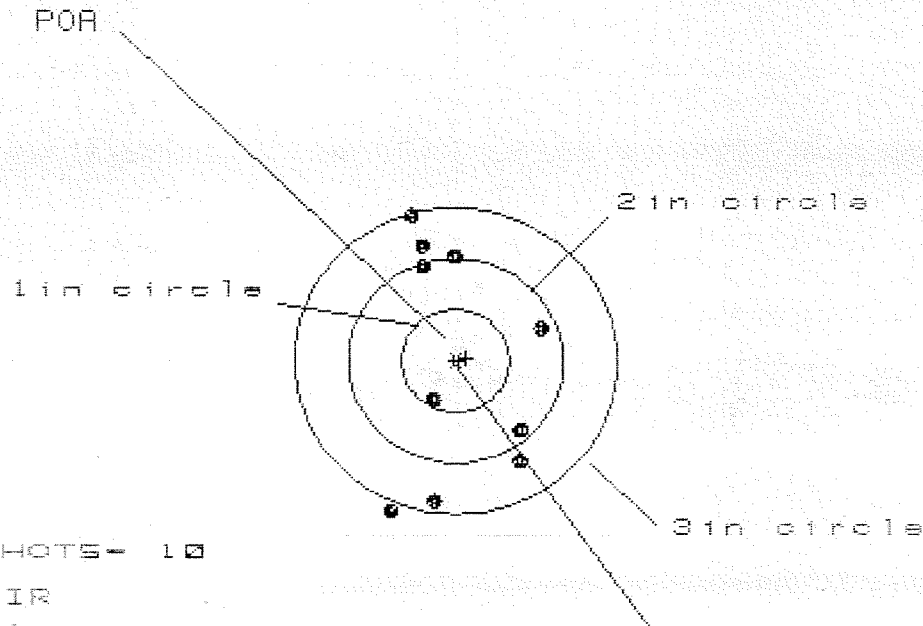
GS = 3.587

PATTERN #	1	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.188	.923	.700
MINIMUM X	-1.917	-1.785	-1.141
MAXIMUM Y	1.650	1.466	1.460
MINIMUM Y	-1.657	-1.372	-1.378
CENTROID X	-.153	-.285	-.062
CENTROID Y	-.017	.167	.173
POA TO CENTROID in.	.154	.330	.184
MIN RADIUS	.563	.463	.378
MEAN RADIUS	1.179	1.069	.937
MAX RADIUS	2.039	1.786	1.490
HORIZONTAL SPREAD	3.105	2.708	1.841
VERTICAL SPREAD	3.307	2.838	2.838
EXTREME SPREAD	3.587	2.898	2.898
NUMBER IN ONE INCH CIRCLE =		0	
NUMBER IN TWO INCH CIRCLE =		4	
NUMBER IN THREE INCH CIRCLE =		7	

15 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8594610

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 4

3 in = 9

HS= 1.434

VS= 2.867

GS= 2.879

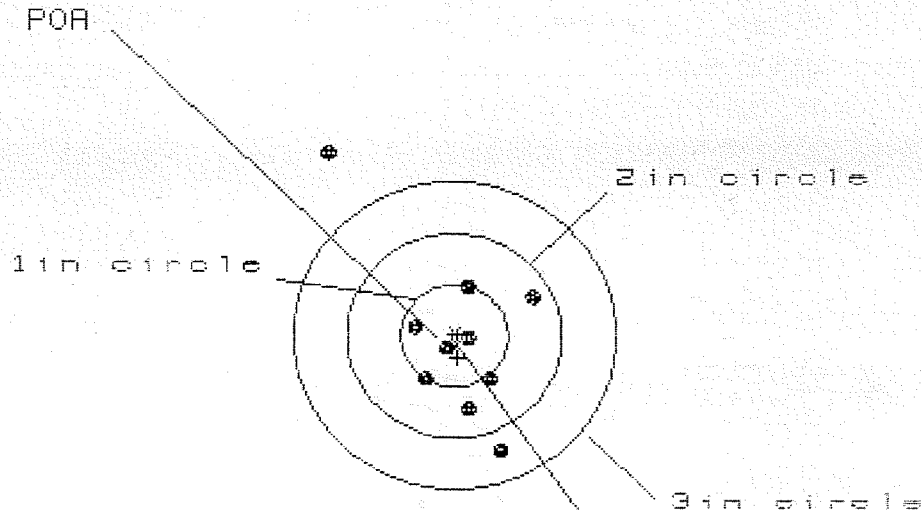
CENTROID *

PATTERN #	2		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.789	.718	.661
MINIMUM X	-.645	-.452	-.417
MAXIMUM Y	1.381	1.216	1.111
MINIMUM Y	-1.486	-1.527	-1.375
CENTROID X	-.096	-.025	.032
CENTROID Y	-.024	.141	-.011
POA TO CENTROID in.	.099	.143	.034
MIN RADIUS	.425	.605	.508
MEAN RADIUS	1.090	1.016	.972
MAX RADIUS	1.620	1.547	1.408
HORIZONTAL SPREAD	1.434	1.170	1.078
VERTICAL SPREAD	2.867	2.743	2.486
EXTREME SPREAD	2.879	2.751	2.488
NUMBER IN ONE INCH CIRCLE =		1	
NUMBER IN TWO INCH CIRCLE =		4	
NUMBER IN THREE INCH CIRCLE =		9	

15 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6594610

CENTERFIRE PATTERNS # 3



OF SHOTS - 10

IN CIR

1in = 5

2in = 8

3in = 9

HS = 1.942

VS = 2.862

GS = 3.277

CENTROID *

PATTERN #	3
SHOTS (BEST OF)	10
MAXIMUM X	.764
MINIMUM X	-1.178
MAXIMUM Y	1.736
MINIMUM Y	-1.125
CENTROID X	-.029
CENTROID Y	.217
POA TO CENTROID in.	.219
MIN RADIUS	.104
MEAN RADIUS	.705
MAX RADIUS	2.098
HORIZONTAL SPREAD	1.942
VERTICAL SPREAD	2.862
EXTREME SPREAD	3.277
NUMBER IN ONE INCH CIRCLE =	5
NUMBER IN TWO INCH CIRCLE =	8
NUMBER IN THREE INCH CIRCLE =	9

15 Feb 1991

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CENTERFIRE PATTERNS # 4

POA

1in circle

2in circle

3in circle

CENTROID #

OF SHOTS - 10

IN CIR

1in = 2

2in = 8

3in = 10

HS= 1.945

VS= 2.232

GS= 2.348

PATTERN #

4

SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.314	1.271	.463
MINIMUM X	-.631	-.674	-.515
MAXIMUM Y	1.313	.733	.798
MINIMUM Y	-.919	-.774	-.710
CENTROID X	.083	.126	-.033
CENTROID Y	-.127	-.272	-.337
POA TO CENTROID in.	.152	.300	.338
MIN RADIUS	.207	.281	.403
MEAN RADIUS	.751	.678	.575
MAX RADIUS	1.367	1.370	.847
HORIZONTAL SPREAD	1.945	1.945	.978
VERTICAL SPREAD	2.232	1.507	1.507
EXTREME SPREAD	2.348	2.059	1.600
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		8	
NUMBER IN THREE INCH CIRCLE =		10	

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CENTERFIRE PATTERNS # 5

POA

1 in circle

2 in circle

3 in circle

OF SHOTS - 10

IN CIR

1 in = 2

2 in = 4

3 in = 10

HS = 1.235

VS = 2.488

GS = 2.517

CENTROID *

PATTERN #	5	5	5
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.782	.759	.700
MINIMUM X	-.453	-.476	-.509
MAXIMUM Y	1.311	1.255	1.404
MINIMUM Y	-1.177	-1.032	-.875
CENTROID X	.001	.024	.083
CENTROID Y	-.151	-.296	-.453
POA TO CENTROID in.	.151	.297	.461
MIN RADIUS	.097	.125	.169
MEAN RADIUS	.905	.833	.752
MAX RADIUS	1.326	1.343	1.408
HORIZONTAL SPREAD	1.235	1.235	1.209
VERTICAL SPREAD	2.488	2.287	2.279
EXTREME SPREAD	2.517	2.374	2.279
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		4	
NUMBER IN THREE INCH CIRCLE =		10	