

C6587544

MODEL 700TM M24

Model **SWS** TM

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

M2400022453

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. 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: RE00144844

Serial: C6587544 Model M24 SWS Center Fire
Caliber: 7.62 NATO

Repairman:

Status: Closed 4/24/2008 10:55:51 AM

Address Information

Customer: ☒ Received From
Name: B/210TH BSB
Address 1: 2 BCT
Address 2: 10 TH MTN DIV PO Box:
City: FORT DRUM
State: NY Zip Code: 13602 Country: US

Return To: ☐ Received From
Name: B/210TH BSB
Address 1: 2 BCT
Address 2: 10 TH MTN DIV PO Box:
City: FORT DRUM
State: NY Zip Code: 13602 Country: US

FFL: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

Contact Information

Phone: NN
Fax:
Email:
Comments:

Received Condition

Condition: Fair
Notes:
CSR Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	3
A008	With Swivel	2
A010	Hard Case	1
A026	Scope	1
A057	Frt and Rear Sgt Base	1

nagletj 4/24/2008 12:26 PM CAPS NUM

start 4 Micros... The Asso... 2 Micros... SAP Logo... Arms Ser...

Serial Number: **C6587544**
Model: **M24 SWS**

RE00144844

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6587544.___0
FILE DATE AND TIME: 05/23/2008 05:27

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.040
The Average Y Centroid of the Five Target Set:	-0.105
The Average Point of Impact of the Five Target Set:	0.112
The Average Mean Radius of the Five Target Set:	0.649
The Distance from POA to Centroid Target #1:	0.199
The Distance from Centroid Target #2 to Centroid Target #1:	0.113
The Distance from Centroid Target #3 to Centroid Target #1:	0.110
The Distance from Centroid Target #4 to Centroid Target #1:	0.206
The Distance from Centroid Target #5 to Centroid Target #1:	0.235

SERIAL NUMBER: C6587544. 0

TARGET NUMBER: 1

FILE DATE: 05/23/2008

FILE TIME: 05:27

X CENTROID: 0.152

Y CENTROID: -0.128

POA TO CENTROID: 0.199

HORZ SPREAD: 2.463

VERT SPREAD: 1.817

GROUP SPREAD: 2.611

MIN RADIUS: 0.313

MAX RADIUS: 1.519

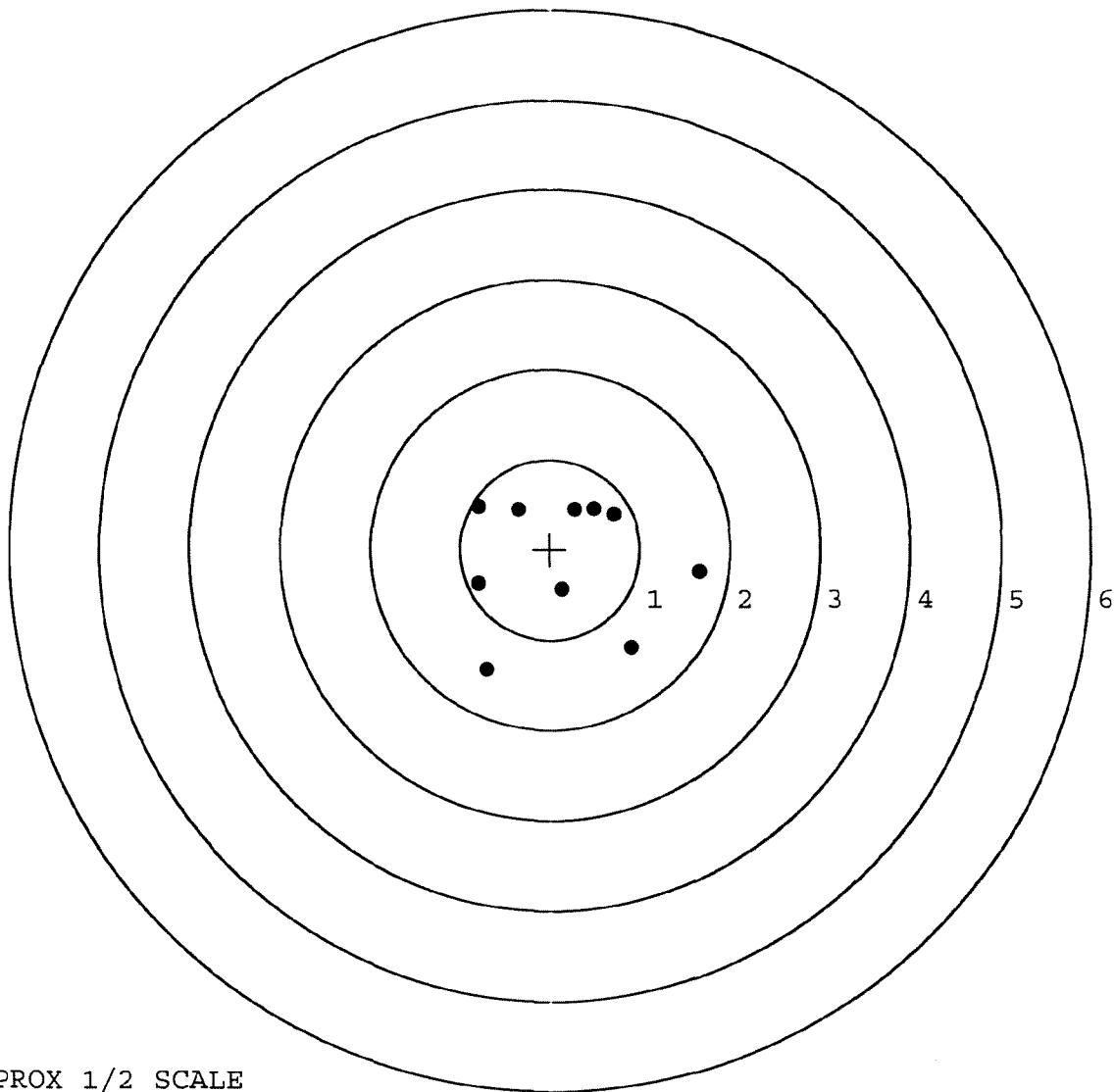
MEAN RADIUS: 0.944

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 9

POINT#	X	Y
1:	0.900	-1.091
2:	1.666	-0.250
3:	0.710	0.388
4:	0.492	0.460
5:	0.277	0.447
6:	-0.796	-0.381
7:	-0.356	0.445
8:	-0.797	0.480
9:	0.135	-0.441
10:	-0.708	-1.337



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587544. 0

TARGET NUMBER: 2

FILE DATE: 05/23/2008

FILE TIME: 05:27

POINT#	X	Y
1:	0.777	-0.934
2:	0.390	-0.742
3:	0.211	-1.366
4:	-0.676	-0.162
5:	-0.062	-0.141
6:	-0.280	-0.006
7:	-0.228	0.420
8:	0.094	0.405
9:	0.213	0.282
10:	0.355	0.105

X CENTROID: 0.079

Y CENTROID: -0.214

POA TO CENTROID: 0.228

HORZ SPREAD: 1.453

VERT SPREAD: 1.786

GROUP SPREAD: 1.839

MIN RADIUS: 0.159

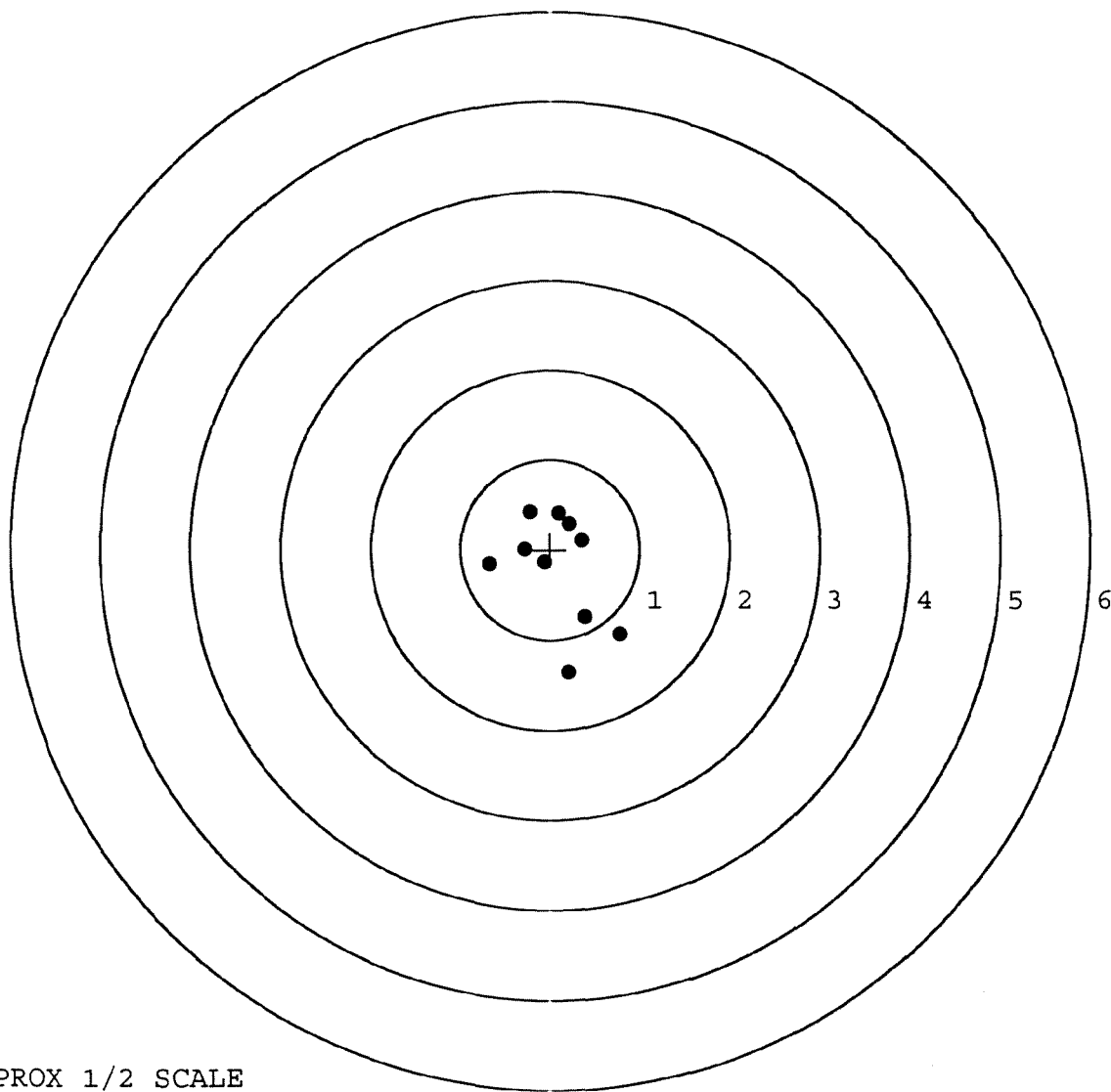
MAX RADIUS: 1.160

MEAN RADIUS: 0.636

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10

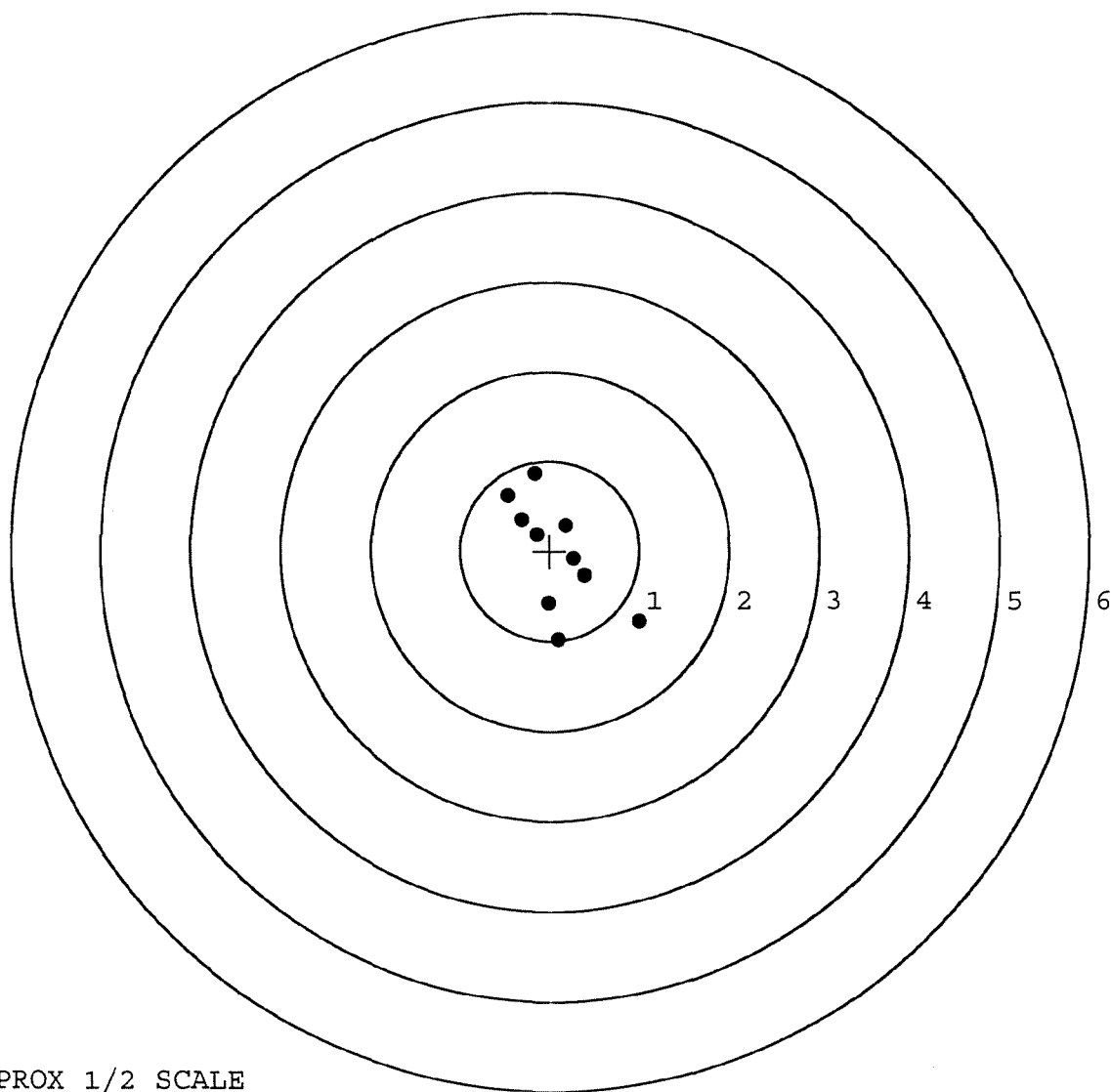


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587544. __0
TARGET NUMBER: 3
FILE DATE: 05/23/2008
FILE TIME: 05:27

POINT#	X	Y
1:	0.995	-0.793
2:	0.096	-0.990
3:	-0.017	-0.580
4:	0.389	-0.276
5:	0.268	-0.093
6:	0.179	0.285
7:	-0.317	0.343
8:	-0.471	0.611
9:	-0.172	0.863
10:	-0.150	0.185

X CENTROID: 0.080
Y CENTROID: -0.045
POA TO CENTROID: 0.092
HORZ SPREAD: 1.466
VERT SPREAD: 1.853
GROUP SPREAD: 2.030
MIN RADIUS: 0.194
MAX RADIUS: 1.182
MEAN RADIUS: 0.627
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587544. 0

TARGET NUMBER: 4

FILE DATE: 05/23/2008

FILE TIME: 05:27

POINT#	X	Y
1:	0.599	-0.139
2:	-0.168	0.657
3:	-0.449	-0.139
4:	-0.721	-0.570
5:	-0.194	-0.499
6:	-0.071	-0.233
7:	0.033	-0.027
8:	0.370	0.163
9:	0.180	0.126
10:	0.102	0.304

X CENTROID: -0.032

Y CENTROID: -0.036

POA TO CENTROID: 0.048

HORZ SPREAD: 1.320

VERT SPREAD: 1.227

GROUP SPREAD: 1.389

MIN RADIUS: 0.065

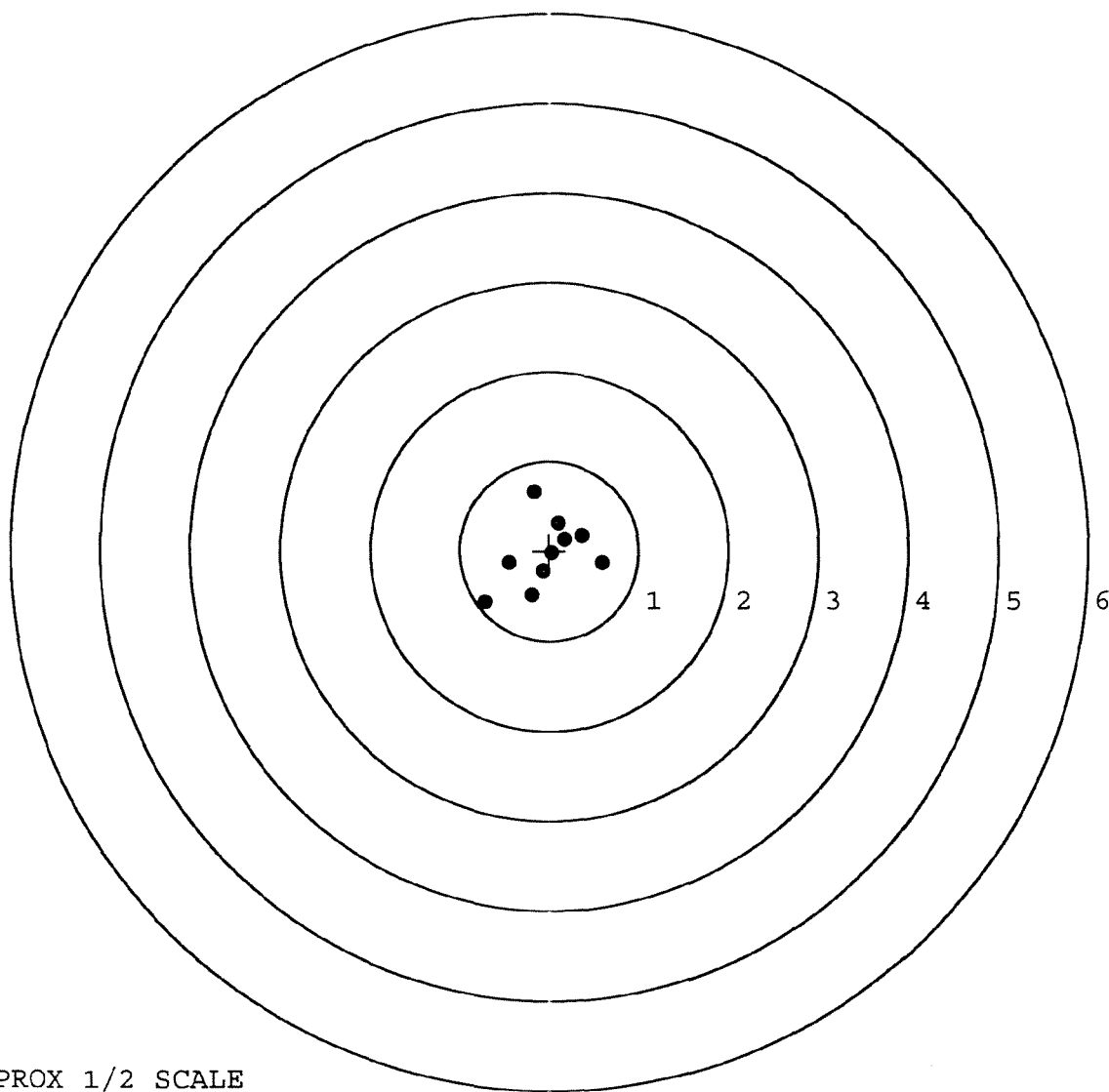
MAX RADIUS: 0.872

MEAN RADIUS: 0.448

IN 1 IN DIAMETER: 7

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587544. 0

TARGET NUMBER: 5

FILE DATE: 05/23/2008

FILE TIME: 05:27

POINT#	X	Y
1:	0.776	0.145
2:	0.527	0.243
3:	0.239	0.676
4:	0.280	0.029
5:	-0.059	-0.357
6:	-0.140	-0.205
7:	-0.105	0.091
8:	-0.570	-0.189
9:	-0.671	-0.650
10:	-1.086	-0.793

X CENTROID: -0.081

Y CENTROID: -0.101

POA TO CENTROID: 0.129

HORZ SPREAD: 1.862

VERT SPREAD: 1.469

GROUP SPREAD: 2.085

MIN RADIUS: 0.120

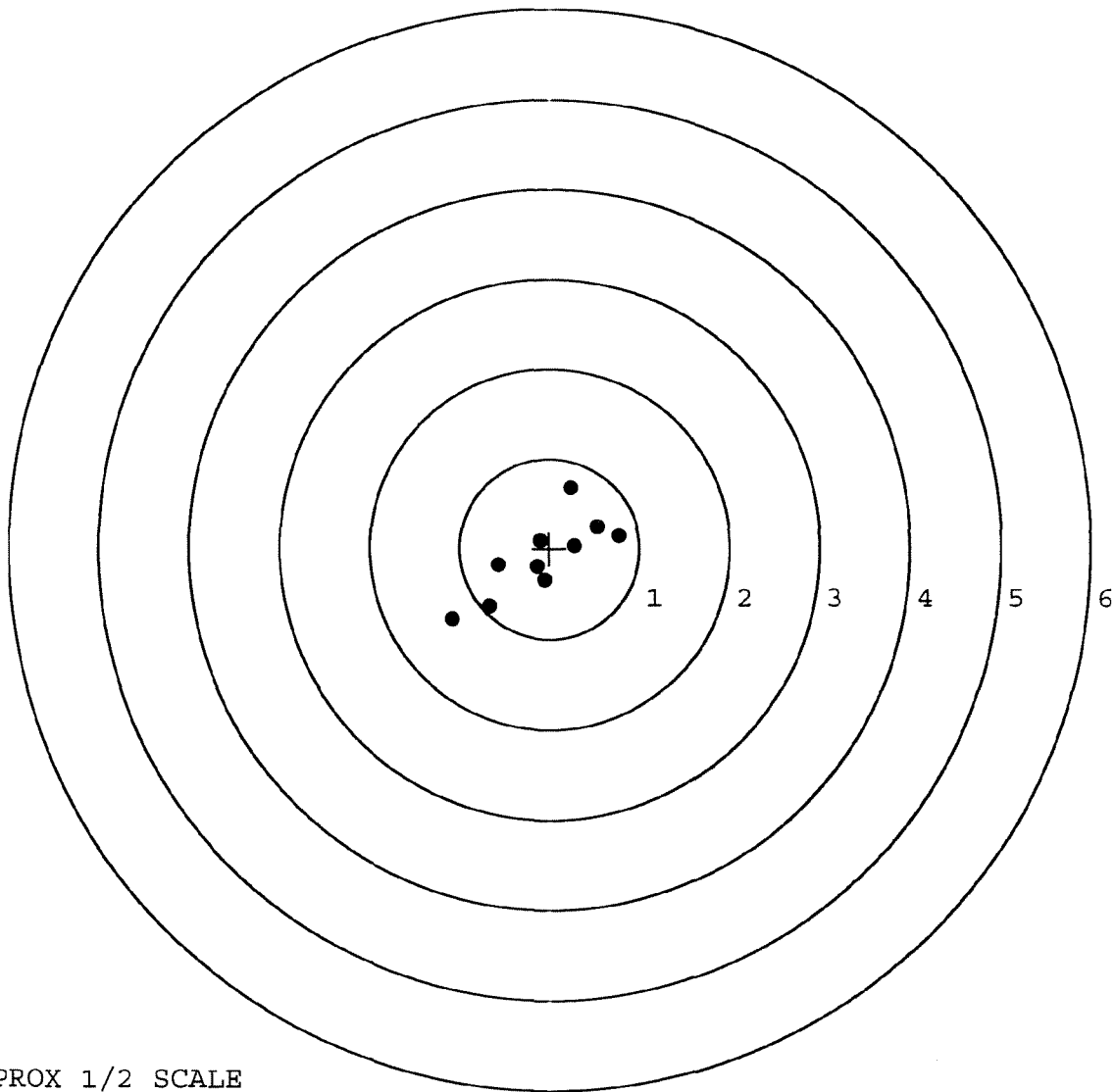
MAX RADIUS: 1.220

MEAN RADIUS: 0.591

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

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

R & E NUMBER 144844
SERIAL NUMBER C6587544
LOG-IN DATE 4-24-08

OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	5-5-08	RTZ
505	RE-BARREL	5-6-08	RTZ
560	ASSEMBLE	5-6-08	RTZ
600	PROOF	5-7-08	TRW
605	CHECK HEADSPACE	5-7-08	TRW
610	DIS-ASSEMBLE GUN	5-7-08	RTZ
612	MAGNAFLUX	5-9-08	LMW
510	DRILL AND TAP	5-7-08	TRW
615	ROLLMARK CALIBER	5-7-08	CW
618	ROTO-BLAST	5-9-08	DC
620	APPLY COATINGS	5-19-08	LM
625	FINAL ASSEMBLY	5-22-08	RTZ
640	FUNCTION TEST AND	5-22-08	SD
650	TARGET	5-22-08	SD
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION	5-22-08	RP
	A) HEADSPACE	5-27-08	FM
		5-27-08	FM
	B) TRIGGER PULL	2.36 2.29 2.36 2.25 2.25 5-27-08	TRW
680	F) SAFETY ON FORCE	6- 6- 6- 5/27/08	FM
	G) SAFETY OFF FORCE	25 25 3- 5/27/08	FM
	I) FIRING PIN INDENT	.022 .023 .023 5/27/08	FM
690	PACK	5/27/08	FM

Serial Number: C6587544

Model: M24 SWS



RE00106025

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6587544.___0
FILE DATE AND TIME: 01/16/2006 11:44

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.090
The Average Y Centroid of the Five Target Set:	0.096
The Average Point of Impact of the Five Target Set:	0.132
The Average Mean Radius of the Five Target Set:	1.060
The Distance from POA to Centroid Target #1:	0.244
The Distance from Centroid Target #2 to Centroid Target #1:	0.421
The Distance from Centroid Target #3 to Centroid Target #1:	0.501
The Distance from Centroid Target #4 to Centroid Target #1:	0.814
The Distance from Centroid Target #5 to Centroid Target #1:	0.483

SERIAL NUMBER: C6587544. __0

TARGET NUMBER: 1

FILE DATE: 01/16/2006

FILE TIME: 11:44

POINT#	X	Y
1:	0.873	-0.149
2:	0.874	0.155
3:	0.625	0.153
4:	0.295	0.000
5:	0.205	-0.207
6:	0.158	-0.403
7:	-0.783	-0.703
8:	-0.565	0.658
9:	-1.345	0.420
10:	-2.774	0.175

X CENTROID: -0.244

Y CENTROID: 0.010

POA TO CENTROID: 0.244

HORZ SPREAD: 3.648

VERT SPREAD: 1.361

GROUP SPREAD: 3.661

MIN RADIUS: 0.498

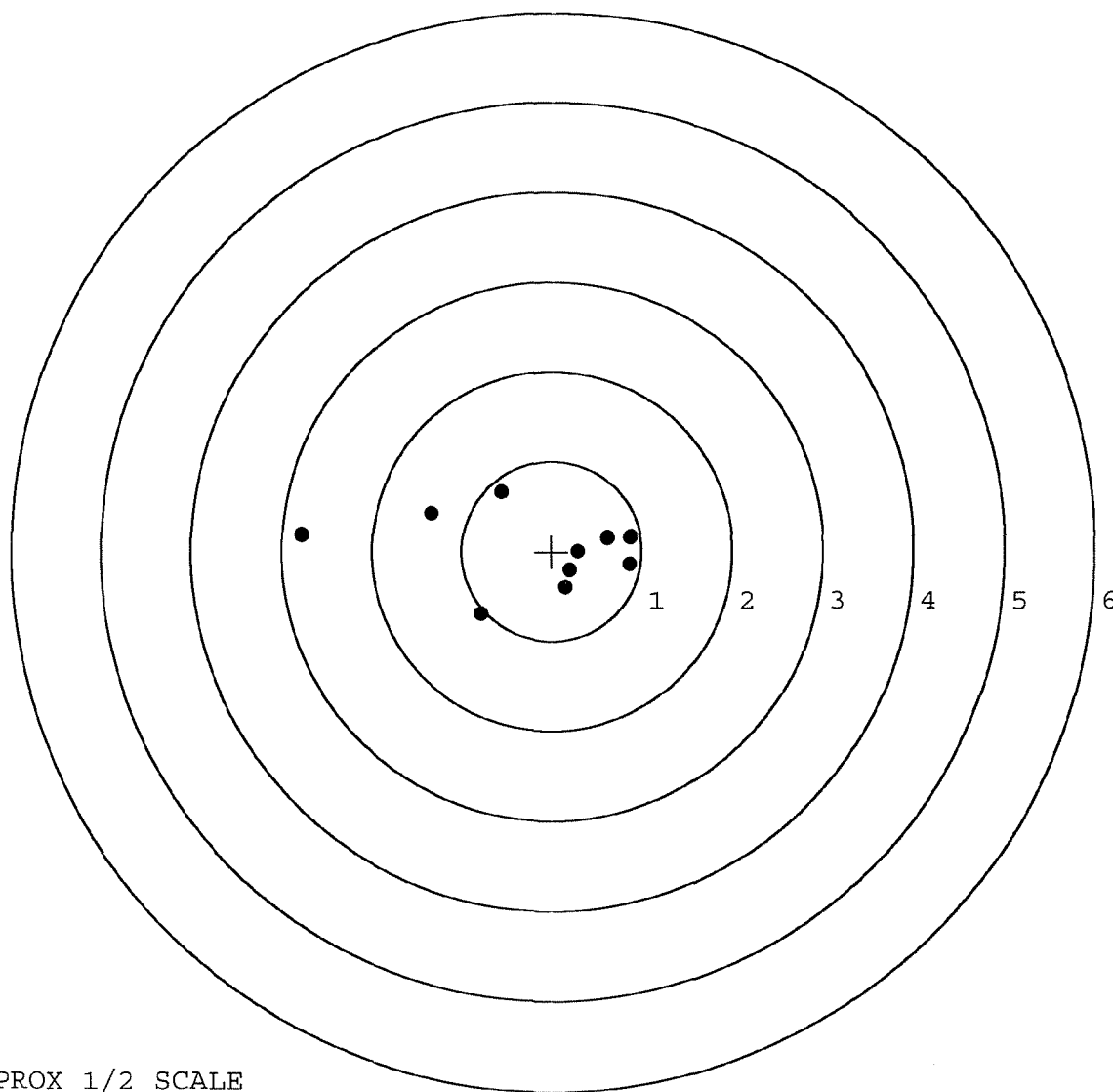
MAX RADIUS: 2.536

MEAN RADIUS: 1.008

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587544. 0

TARGET NUMBER: 2

FILE DATE: 01/16/2006

FILE TIME: 11:44

POINT#	X	Y
1:	0.736	-1.484
2:	0.036	-0.703
3:	0.126	-0.550
4:	0.794	0.222
5:	0.262	0.384
6:	-0.452	-0.307
7:	-0.499	-0.105
8:	-0.532	0.562
9:	-1.275	1.409
10:	0.192	-3.118

X CENTROID: -0.061

Y CENTROID: -0.369

POA TO CENTROID: 0.374

HORZ SPREAD: 2.069

VERT SPREAD: 4.527

GROUP SPREAD: 4.759

MIN RADIUS: 0.260

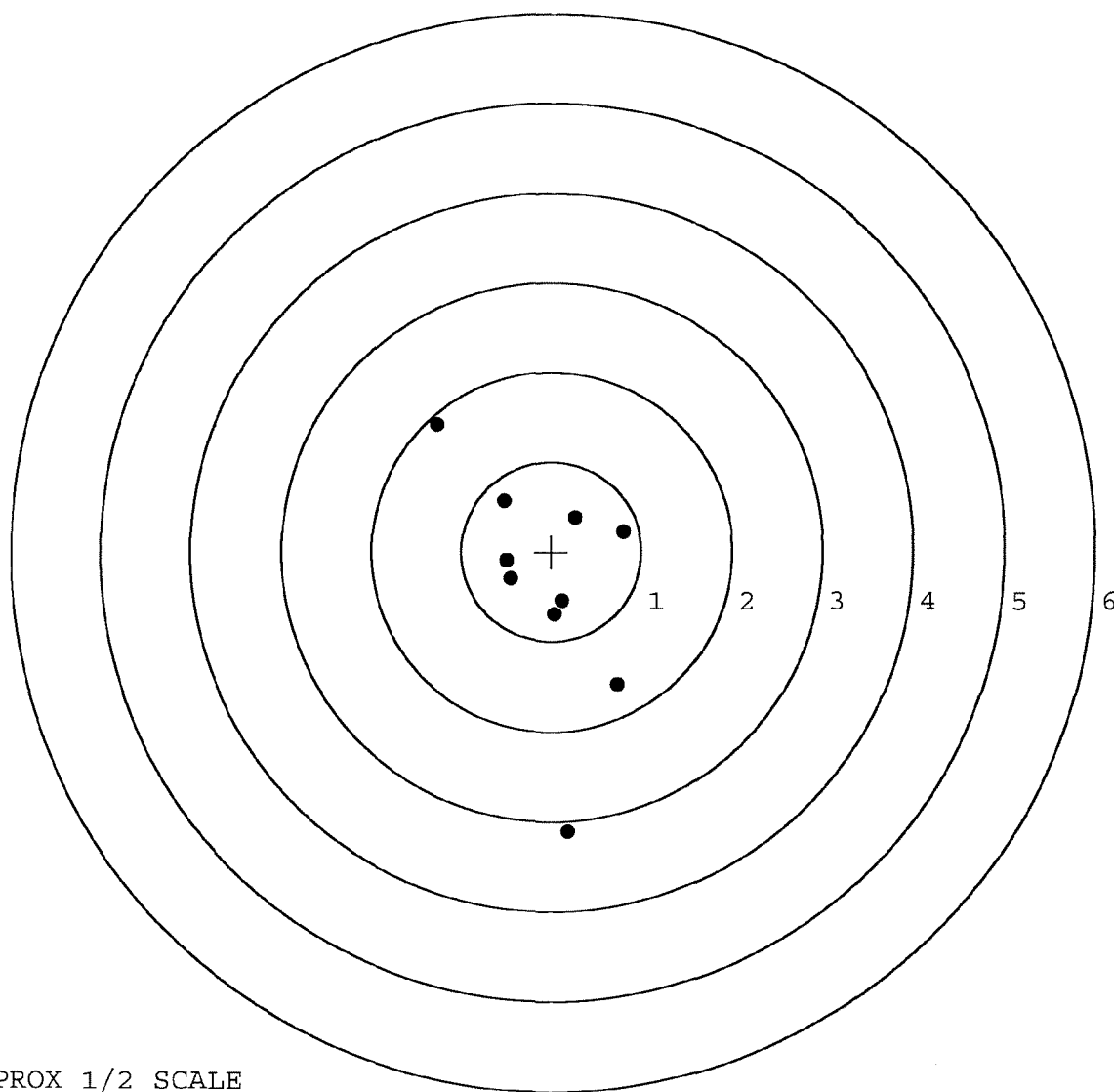
MAX RADIUS: 2.761

MEAN RADIUS: 1.070

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 5

in 3 IN DIAMETER: 8

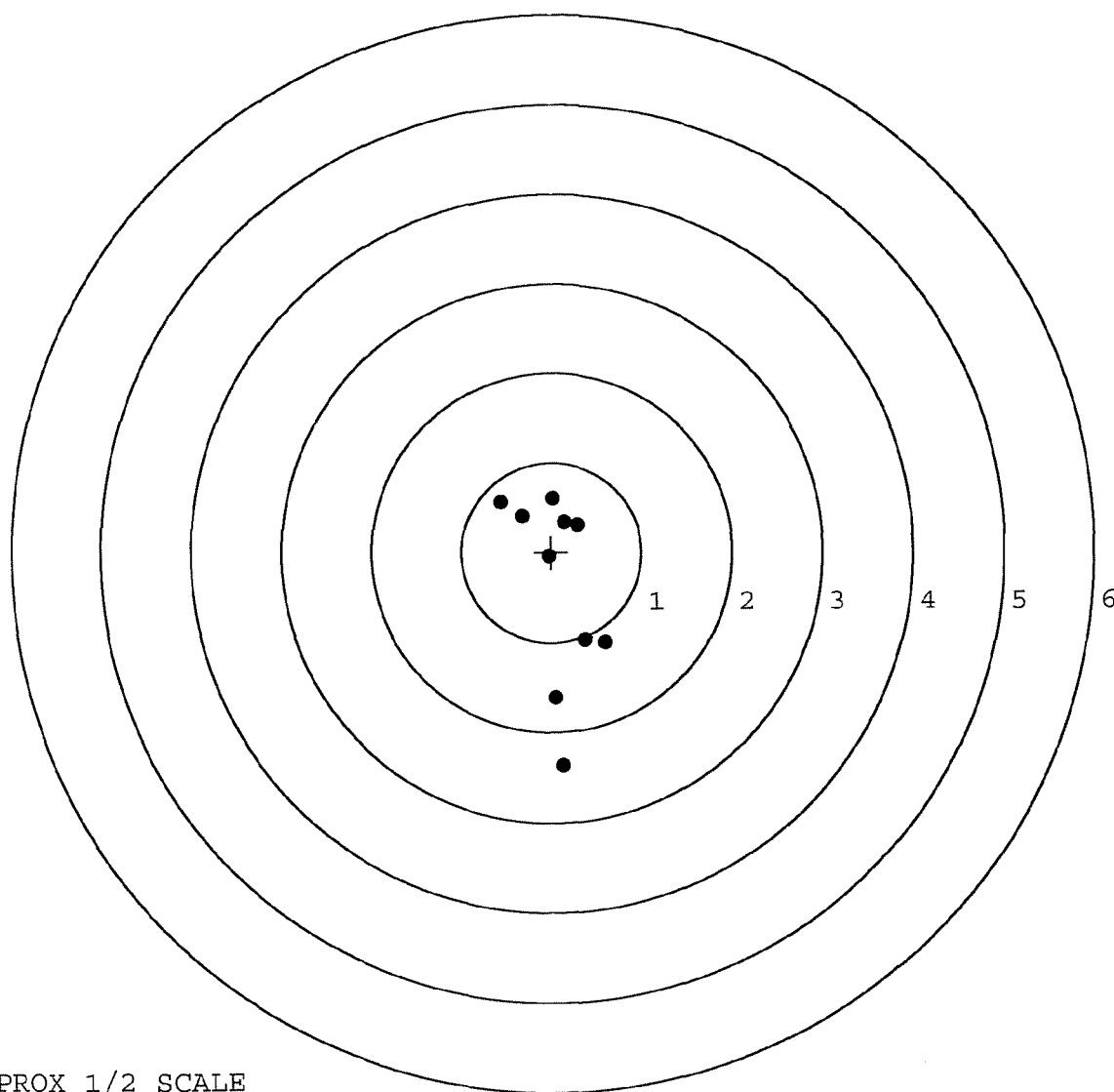


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587544. __0
TARGET NUMBER: 3
FILE DATE: 01/16/2006
FILE TIME: 11:44

X CENTROID: 0.071
Y CENTROID: -0.381
POA TO CENTROID: 0.387
HORZ SPREAD: 1.165
VERT SPREAD: 2.984
GROUP SPREAD: 3.025
MIN RADIUS: 0.343
MAX RADIUS: 1.998
MEAN RADIUS: 0.951
IN 1 IN DIAMETER: 1
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 9

POINT#	X	Y
1:	0.137	-2.378
2:	0.052	-1.621
3:	0.604	-1.001
4:	0.379	-0.968
5:	0.293	0.305
6:	0.145	0.335
7:	-0.031	-0.053
8:	-0.561	0.565
9:	-0.332	0.402
10:	0.020	0.606

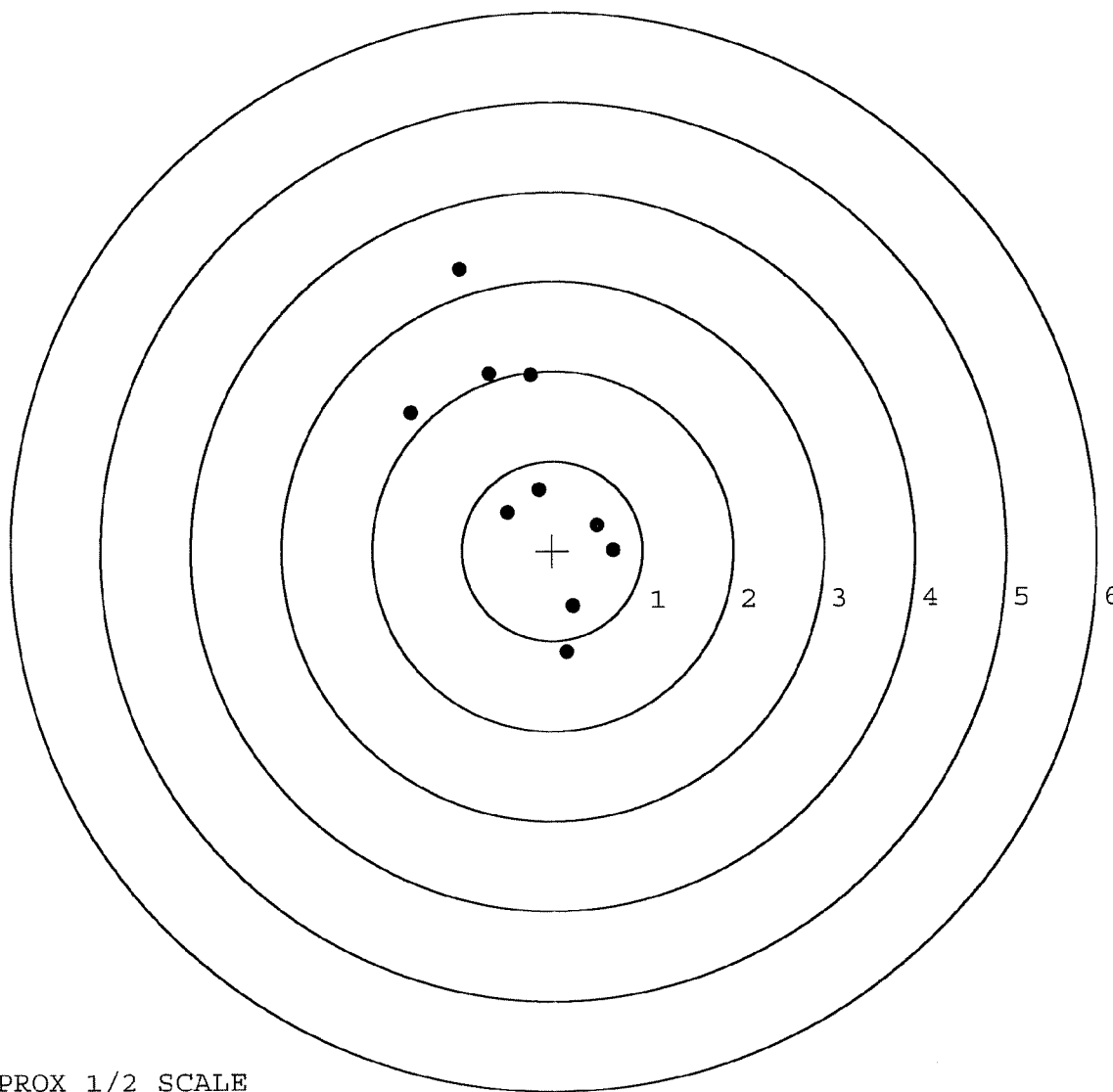


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587544. __0
TARGET NUMBER: 4
FILE DATE: 01/16/2006
FILE TIME: 11:44

X CENTROID: -0.260
Y CENTROID: 0.824
POA TO CENTROID: 0.864
HORZ SPREAD: 2.242
VERT SPREAD: 4.266
GROUP SPREAD: 4.424
MIN RADIUS: 0.180
MAX RADIUS: 2.434
MEAN RADIUS: 1.263
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 3
in 3 IN DIAMETER: 7

POINT#	X	Y
1:	0.156	-1.128
2:	0.229	-0.620
3:	0.678	-0.004
4:	0.499	0.284
5:	-0.151	0.681
6:	-0.500	0.427
7:	-0.240	1.956
8:	-0.695	1.971
9:	-1.564	1.535
10:	-1.016	3.138



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587544. __0

TARGET NUMBER: 5

FILE DATE: 01/16/2006

FILE TIME: 11:44

POINT#	X	Y
1:	0.835	-0.413
2:	0.645	-0.865
3:	0.390	-1.121
4:	0.363	1.736
5:	-0.135	1.671
6:	-0.604	1.949
7:	-0.386	0.607
8:	-0.001	0.234
9:	-0.417	0.201
10:	-0.240	-0.032

X CENTROID: 0.045

Y CENTROID: 0.397

POA TO CENTROID: 0.399

HORZ SPREAD: 1.439

VERT SPREAD: 3.070

GROUP SPREAD: 3.227

MIN RADIUS: 0.169

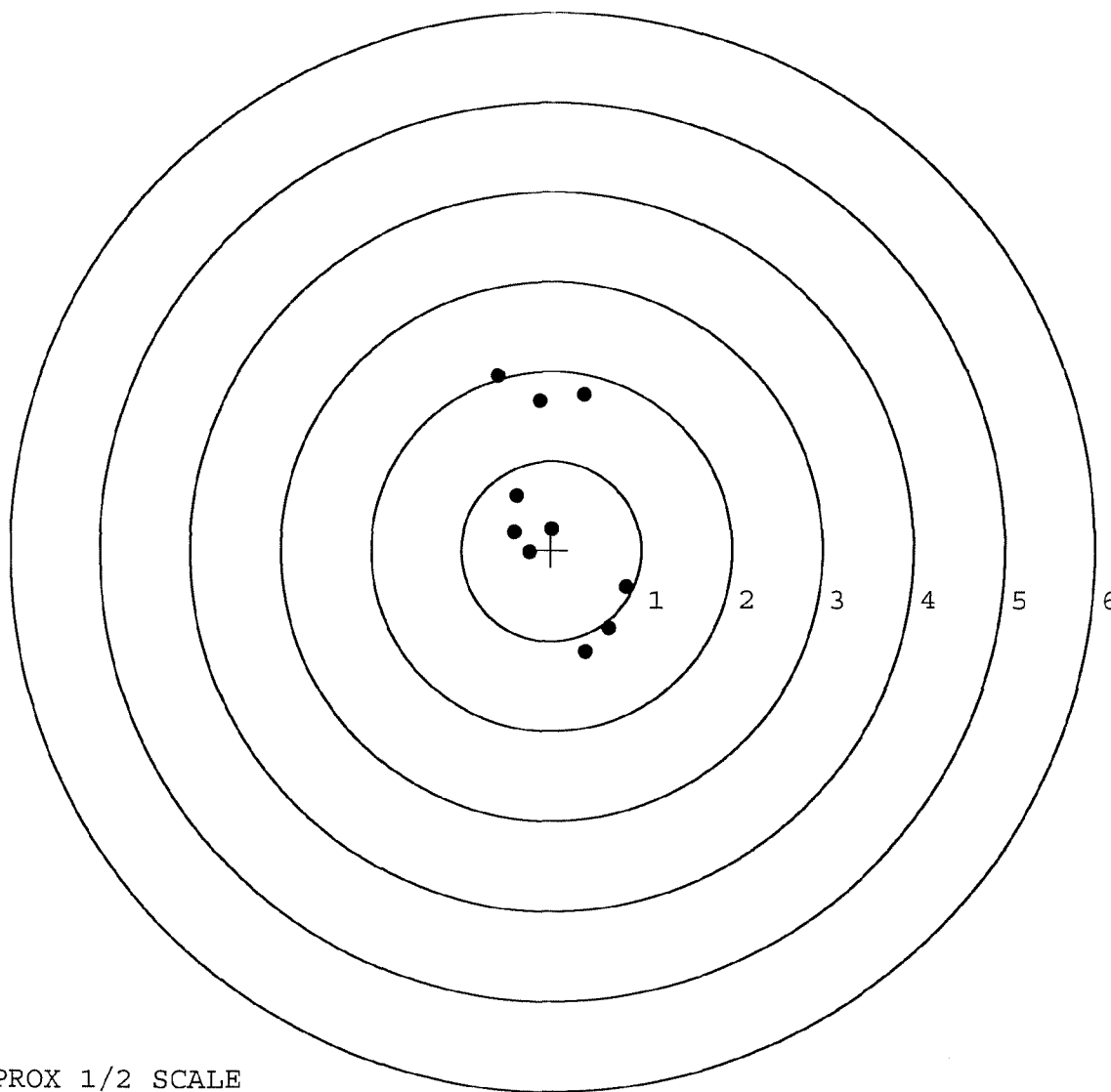
MAX RADIUS: 1.683

MEAN RADIUS: 1.010

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 4

in 3 IN DIAMETER: 8



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 12-30-05

TESTER TRW

	2.50 LBS INITIAL	2.50 LBS AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50 LBS		COMMENTS
PULL #1	2.36	2.33		2.54	
PULL #2	2.42	2.43		2.63	
PULL #3	2.48	2.22		2.60	
PULL #4	2.50	2.64		2.57	
PULL #5	2.59	2.59		2.64	
TOTAL	12.35	12.21		12.98	
AVERAGE	2.47	2.44		2.59	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES		COMMENTS
PULL #1	3.32	3.23		
PULL #2	3.14	3.48		
PULL #3	3.22	3.45		
PULL #4	3.25	3.34		
PULL #5	3.05	3.36		
TOTAL	15.98	16.86		
AVERAGE	3.19	3.37		

	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	4.22	4.06		4.46
PULL #2	4.08	4.44		4.51
PULL #3	4.44	4.45		4.62
PULL #4	4.21	3.86		4.59
PULL #5	4.16	4.45		4.52
TOTAL	21.11	21.26		22.70
AVERAGE	4.22	4.25		4.54

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

R & E NUMBER	106029			
SERIAL NUMBER	C6587544			
LOG-IN DATE	1-4-06			
OPERATION.#	OPERATION NAME		DATE	INITIAL
500	DIS-ASSEMBLE GUN		1-5-06	RTZ
505	RE-BARREL		1-6-06	RTZ
560	ASSEMBLE		1-6-06	RTZ
600	PROOF	MAGNA-FLUX INSPECTED JAN 10 2006	1-6-06	BC
605	CHECK HEADSPACE		1-6-06	AC
610	DIS-ASSEMBLE GUN		1-6-06	AC
612	MAGNAFLUX	CRACK DETECTOR <i>unmet</i>	1/10/06	<i>unmet</i>
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	RTZ
640	FUNCTION TEST AND	PASS	FAIL	1-16-06 TRW
650	TARGET	PASS	FAIL	
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
670	FINAL INSPECTION		1-16-06	TRW
	A) HEADSPACE	PASS	FAIL	1-23-06 AC
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	2.32 2.33 2.34 2.02 2.25	AC
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS	5 lbs 5 lbs 5 lbs	AC
	G) SAFETY OFF FORCE	2 LBS MIN	2 lbs 2 lbs 2 lbs	AC
	I) FIRING PIN INDENT	.020		
690	PACK		1-24-06	RTZ

Remington



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

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

MODEL 700TM H24

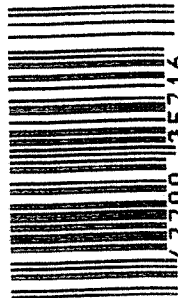
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5716 C6587544

UPC



0 47700 25716 7

SERIAL NO.

C6587544

ORDER NO.

5716

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6587544

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	1023 90		RW
600	Proof	1023 90		RW
607	Check Headspace	1023 90		RW
610	Dis-assemble Gun	1023 90		RW
612	Magnaflux Barrel Action		10/24/90	KP
	Magnaflux Bolt		10/24/90	KP
615	Rollmark Caliber		10/24/90	JS
617	Drill and Tap Sight Holes		10/25/90	FB
618	Polish Barrel RB		10/26/90	WB
620	Apply Coatings (Barrel Action)		11-7-90	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		11/19/90	WB

op. #	OP. NAME	READINGS			DATE	INIT		
625 cont.	F) Safety On Force	4 3/4	4 3/4	4 3/4	11/17/90	WB		
	G) Safety Off Force	2 3/4	2 3/4	2 3/4	11/19/90	WB		
	H) Trigger Pull Test & Retainability				11/19/90	WB		
	I) Firing Pin Indent	0235	0235	0235	11/19/90	WB		
	J) Assemble Stock				11/26/90	RW		
	K) Assemble Swivel Studs				11-27-90	JS		
	L) Attach Front and Rear Sight Assemblies				11/26/90	RW		
	M) Iron Sight Alignment				11/26/90	RW		
	N) Detach Front & Rear Sights & place in numbered container				11/26/90	RW		
	O) Attach Scope to Rifle				11/26/90	RW		
	P) Detach & Attach Scope 20 Times				11/26/90	RW		
640	Gallery Target & Test				11/26/90	AF		
	A) Time				"	AF		
	B) Malfunctions				"	AF		
	C) Pierced Primers				"	AF		
	D) Optical Clarity of Scope				"	AF		
645	Inspect for Live Ammo				11/26/90	AF		
655	Final Inspection							
	A) Headspace				11-27-90	JS		
	B) Trigger Pull	281	259	244	268	252	11-27-90	JS
	C) Function						11-27-90	JS
660	Pack						12/14/90	AF

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#
3.00# ± .75#
4.00# ± 1.00#

SERIAL NO. C6587544

DATE 11/19/90

TESTER WB

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.46	2.29	2.23	2.81	MIN. SETTING,
PULL #2	2.38	2.33	2.20	2.59	NO AVG. OF 5
PULL #3	2.34	2.35	2.36	2.44	READINGS ACCEPT-
PULL #4	2.31	2.30	2.37	2.68	ABLE LESS THAN 2#
PULL #5	2.35	2.46	2.18	2.52	
TOTAL	11.84	11.73	11.34		
AVG.	2.37	2.35	2.27		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.35	3.32		
PULL #2	3.38	3.24		
PULL #3	3.32	3.35		
PULL #4	3.36	3.26		
PULL #5	3.23	3.41		
TOTAL	16.74	16.58		
AVG.	3.35	3.37		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.38	4.36		4.00
PULL #2	4.37	4.35		4.22
PULL #3	4.24	4.39		4.13
PULL #4	4.12	4.33		4.11
PULL #5	4.29	4.38		4.19
TOTAL	21.40	21.81		20.65
AVG.	4.28	4.36		4.13

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6587544
27 Nov 1990

CENTROIDAL DISTANCES

0	TO	1	.260634
1	TO	2	.343874
1	TO	3	.217706
1	TO	4	.143136
1	TO	5	.346182

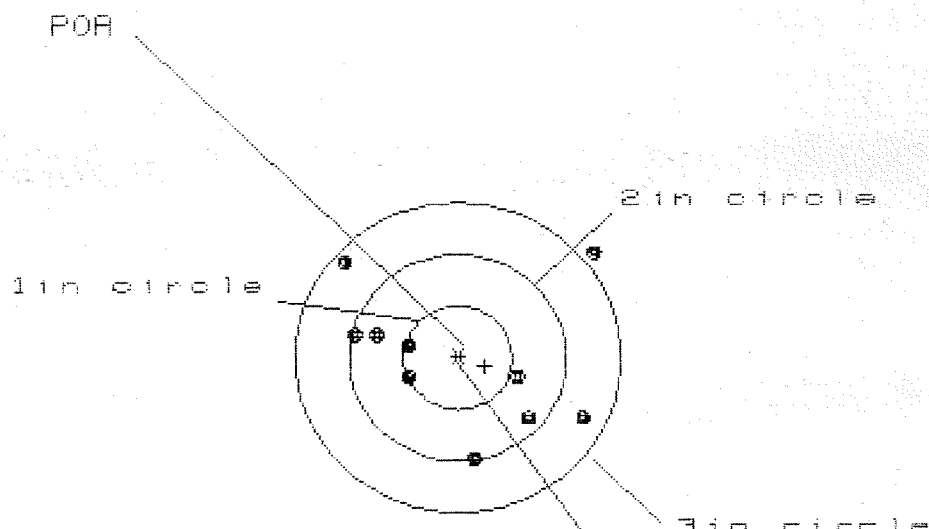
$\frac{41}{5}$ (----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.141
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0348
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .145231
THE AMR FOR THIS RIFLE IS: .9054

27 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8587544

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1in = 2

2in = 7

3in = 9

HS= 2.336

VS= 1.926

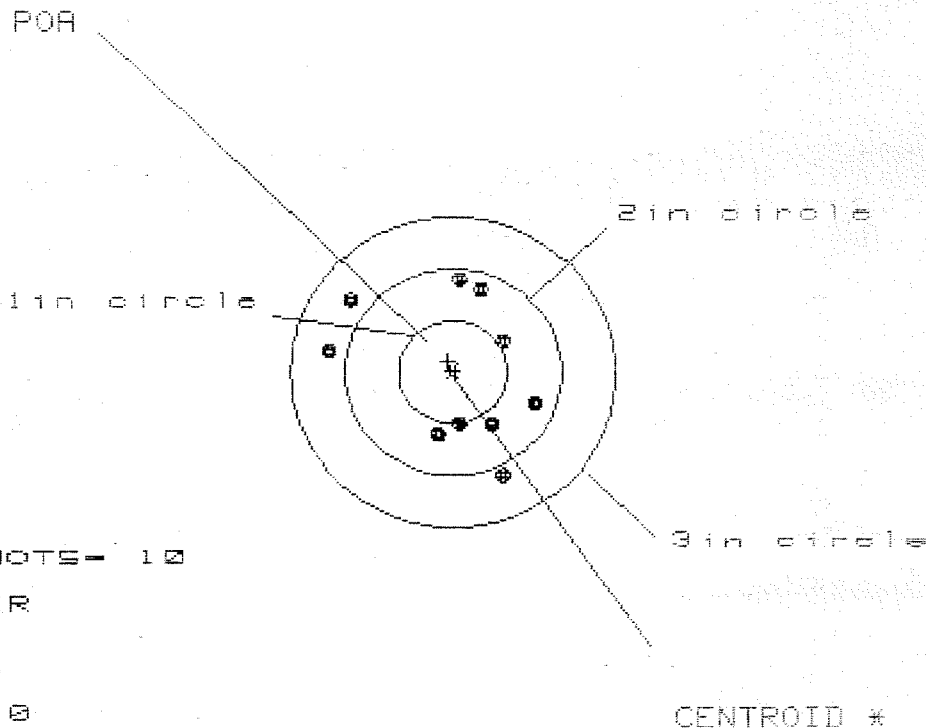
GS= 2.593

PATTERN #	1	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.267	1.247	1.131
MINIMUM X	-1.069	-.928	-.949
MAXIMUM Y	.987	.984	.444
MINIMUM Y	-.939	-.829	-.706
CENTROID X	-.249	-.390	-.273
CENTROID Y	.077	-.033	-.156
POA TO CENTROID in.	.260	.391	.315
MIN RADIUS	.443	.272	.382
MEAN RADIUS	.922	.813	.748
MAX RADIUS	1.606	1.353	1.171
HORIZONTAL SPREAD	2.336	2.175	2.079
VERTICAL SPREAD	1.926	1.813	1.150
EXTREME SPREAD	2.593	2.593	2.210
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	7		
NUMBER IN THREE INCH CIRCLE =	9		

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CENTERFIRE PATTERNS # 2



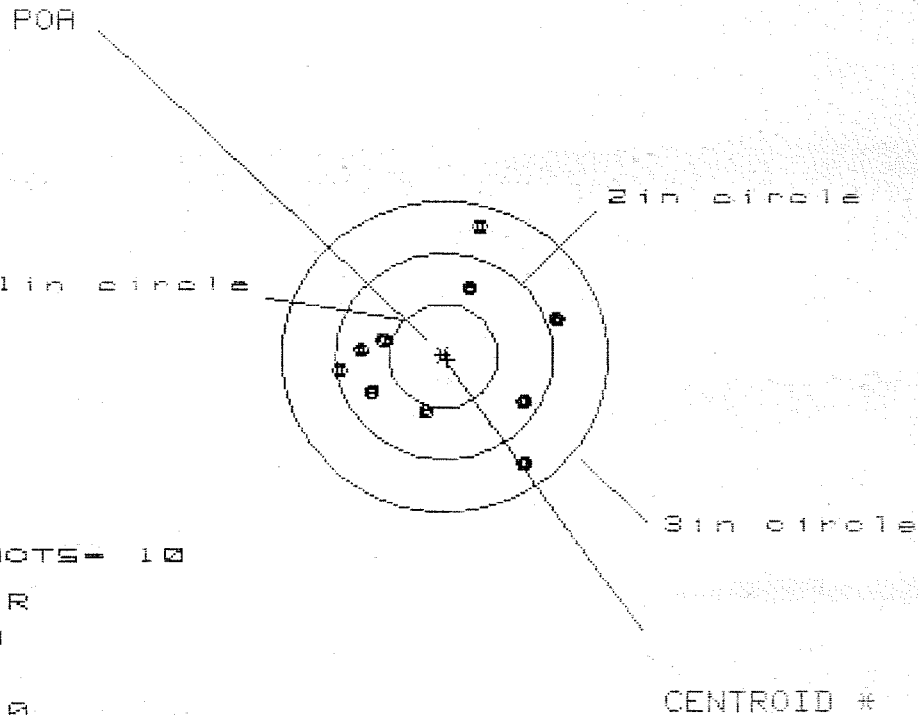
OF SHOTS- 10
 # IN CIR
 1in = 1
 2in = 7
 3in = 10
 HS= 1.860
 VS= 1.829
 GS= 2.152

PATTERN #	2	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.742	.641	.488
MINIMUM X	-1.113	-1.219	-.446
MAXIMUM Y	.874	.957	.990
MINIMUM Y	-.955	-.872	-.839
CENTROID X	.044	.145	.298
CENTROID Y	-.103	-.186	-.219
POA TO CENTROID in.	.112	.236	.370
MIN RADIUS	.482	.431	.394
MEAN RADIUS	.811	.742	.652
MAX RADIUS	1.179	1.247	1.014
HORIZONTAL SPREAD	1.860	1.860	.934
VERTICAL SPREAD	1.829	1.829	1.829
EXTREME SPREAD	2.152	1.922	1.867
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	7		
NUMBER IN THREE INCH CIRCLE =	10		

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CENTERFIRE PATTERNS # 3



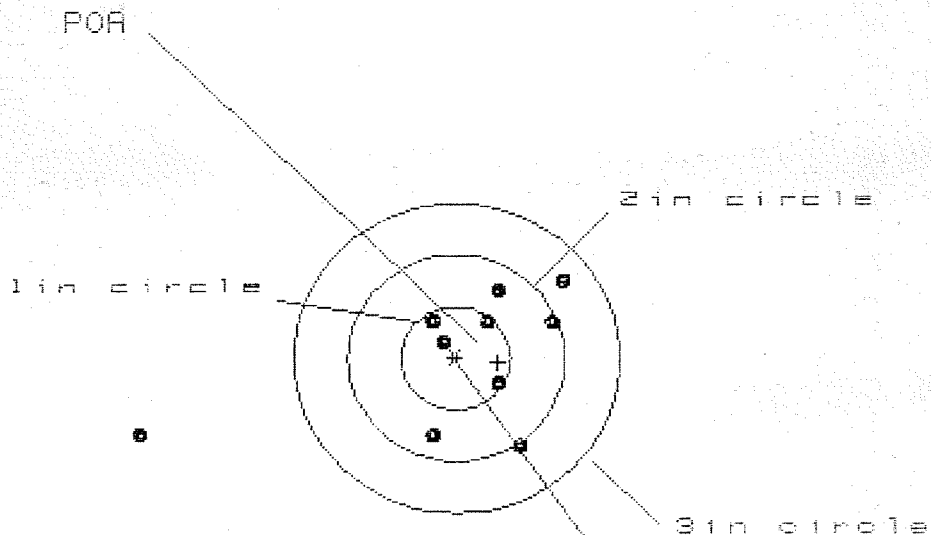
OF SHOTS- 10
 # IN CIR
 1 in = 0
 2 in = 7
 3 in = 10
 HS= 1.961
 VS= 2.291
 GS= 2.324

PATTERN #	3	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.001	1.039	1.135
MINIMUM X	-.960	-.922	-.827
MAXIMUM Y	1.241	.805	.691
MINIMUM Y	-1.050	-.912	-.519
CENTROID X	-.035	-.073	-.169
CENTROID Y	.037	-.101	.013
POA TO CENTROID in.	.051	.124	.169
MIN RADIUS	.569	.426	.462
MEAN RADIUS	.875	.811	.743
MAX RADIUS	1.286	1.191	1.203
HORIZONTAL SPREAD	1.961	1.961	1.961
VERTICAL SPREAD	2.291	1.717	1.210
EXTREME SPREAD	2.324	2.033	2.033
NUMBER IN ONE INCH CIRCLE =		0	
NUMBER IN TWO INCH CIRCLE =		7	
NUMBER IN THREE INCH CIRCLE =		10	

27 May 1990

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CENTERFIRE PATTERNS # 4



OF SHOTS- 10
IN CIR
1 in = 4
2 in = 7
3 in = 9
HS= 3.980
VS= 1.612
GS= 4.268

CENTROID *

PATTERN #	4		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.018	.689	.671
MINIMUM X	-2.962	-.560	-.473
MAXIMUM Y	.758	.671	.642
MINIMUM Y	-.854	-.941	-.857
CENTROID X	-.387	-.058	-.145
CENTROID Y	.039	.126	.043
POA TO CENTROID in.	.389	.139	.151
MIN RADIUS	.235	.254	.292
MEAN RADIUS	.935	.643	.599
MAX RADIUS	3.064	.979	.928
HORIZONTAL SPREAD	3.980	1.249	1.144
VERTICAL SPREAD	1.612	1.612	1.499
EXTREME SPREAD	4.268	1.896	1.516
NUMBER IN ONE INCH CIRCLE =		4	
NUMBER IN TWO INCH CIRCLE =		7	
NUMBER IN THREE INCH CIRCLE =		9	

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CENTERFIRE PATTERNS # 5

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS - 10

IN CIR

1 in = 1

2 in = 5

3 in = 9

HS = 2.447

VS = 2.228

GS = 2.857

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.012	.817	.652
MINIMUM X	:	-1.435	-1.323	-.760
MAXIMUM Y	:	1.286	1.045	1.040
MINIMUM Y	:	-.942	-.799	-.804
CENTROID X	:	-.073	-.190	-.025
CENTROID Y	:	-.224	-.367	-.362
POA TO CENTROID in.	:	.238	.414	.363
MIN RADIUS	:	.346	.409	.410
MEAN RADIUS	:	.914	.807	.731
MAX RADIUS	:	1.637	1.324	1.127
HORIZONTAL SPREAD	:	2.447	2.140	1.412
VERTICAL SPREAD	:	2.228	1.844	1.844
EXTREME SPREAD	:	2.857	2.287	2.217
NUMBER IN ONE INCH CIRCLE =			1	
NUMBER IN TWO INCH CIRCLE =			5	
NUMBER IN THREE INCH CIRCLE =			9	