

C6348780

MODEL 700TM M24

Model SMSTM

Action

Barrel Length

Capacity

Order No. 5715

*Includes 1 in chamber.

Remington

M2400063832

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

Smith

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: **RE00144841**

Serial: C6348780 Model M24 SWS Center Fire
Caliber: 7.62 NATO

Repairman:

Verify Repair

Status: Closed 4/24/2008 10:56:04 AM

Address Information

Customer:

☒ Received From

Return To:

☐ Received From

Name: B/210TH BSB

B/210TH BSB

Address 1: 2 BCT

2 BCT

Address 2: 10 TH MTN DIV

PO Box:

10 TH MTN DIV

PO Box:

City: FORT DRUM

FORT DRUM

State: NY

Zip Code: 13602

Country: US

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

Fair

Condition
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

EdPs

NUM



Serial Number: **C6348780**

Model: **M24 SWS**



RE00144841

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6348780.__0
FILE DATE AND TIME: 05/23/2008 05:22

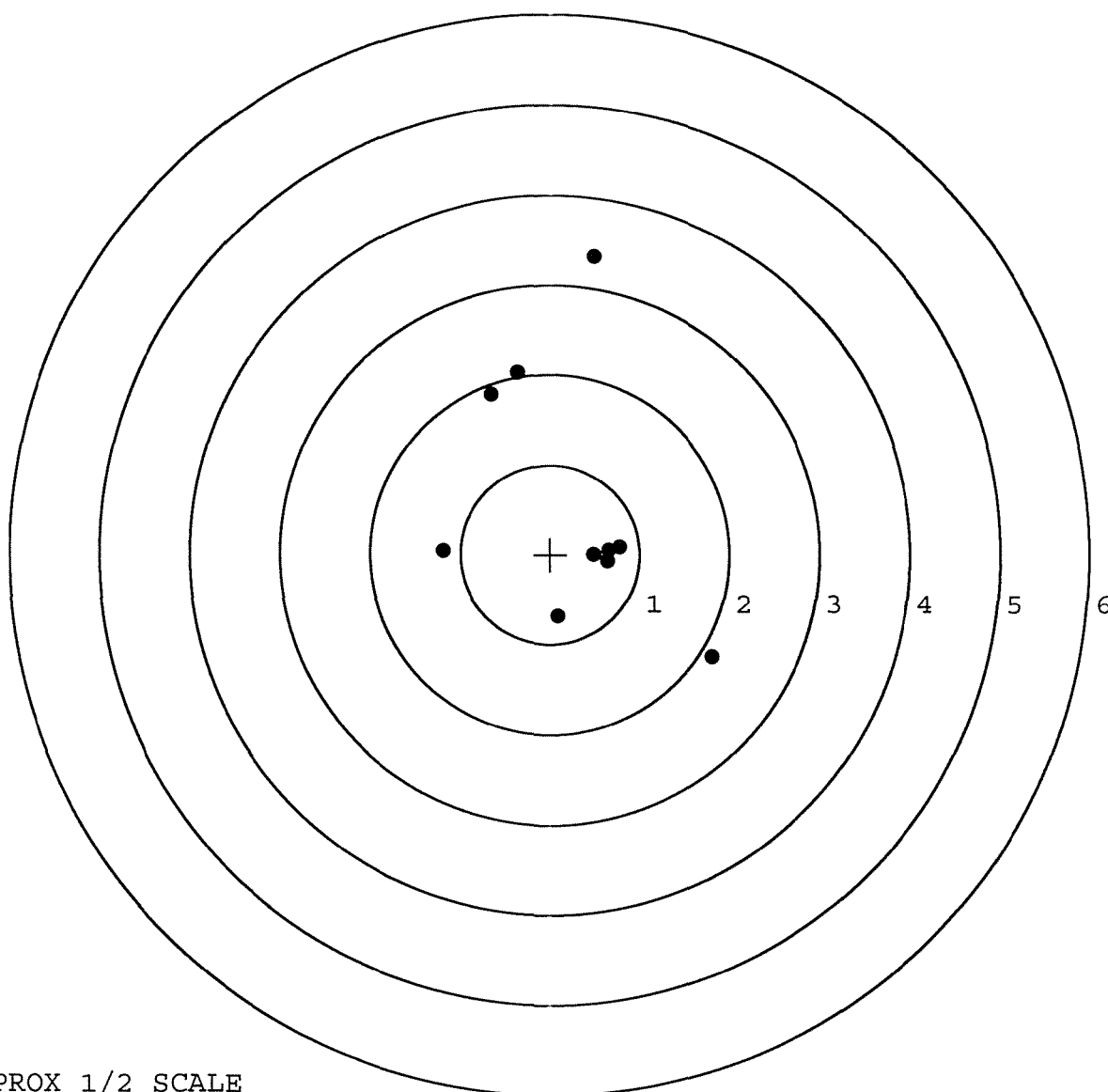
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.078
The Average Y Centroid of the Five Target Set:	0.159
The Average Point of Impact of the Five Target Set:	0.177
The Average Mean Radius of the Five Target Set:	1.013
The Distance from POA to Centroid Target #1:	0.600
The Distance from Centroid Target #2 to Centroid Target #1:	0.550
The Distance from Centroid Target #3 to Centroid Target #1:	0.513
The Distance from Centroid Target #4 to Centroid Target #1:	0.792
The Distance from Centroid Target #5 to Centroid Target #1:	0.386

SERIAL NUMBER: C6348780. 0
TARGET NUMBER: 1
FILE DATE: 05/23/2008
FILE TIME: 05:22

X CENTROID: 0.273
Y CENTROID: 0.534
POA TO CENTROID: 0.600
HORZ SPREAD: 3.007
VERT SPREAD: 4.450
GROUP SPREAD: 4.642
MIN RADIUS: 0.582
MAX RADIUS: 2.784
MEAN RADIUS: 1.362
IN 1 IN DIAMETER: 0
IN 2 IN DIAMETER: 4
in 3 IN DIAMETER: 5

POINT#	X	Y
1:	1.811	-1.140
2:	0.087	-0.699
3:	-1.196	0.038
4:	-0.660	1.772
5:	-0.371	2.016
6:	0.490	3.310
7:	0.490	-0.006
8:	0.780	0.080
9:	0.657	0.048
10:	0.645	-0.077

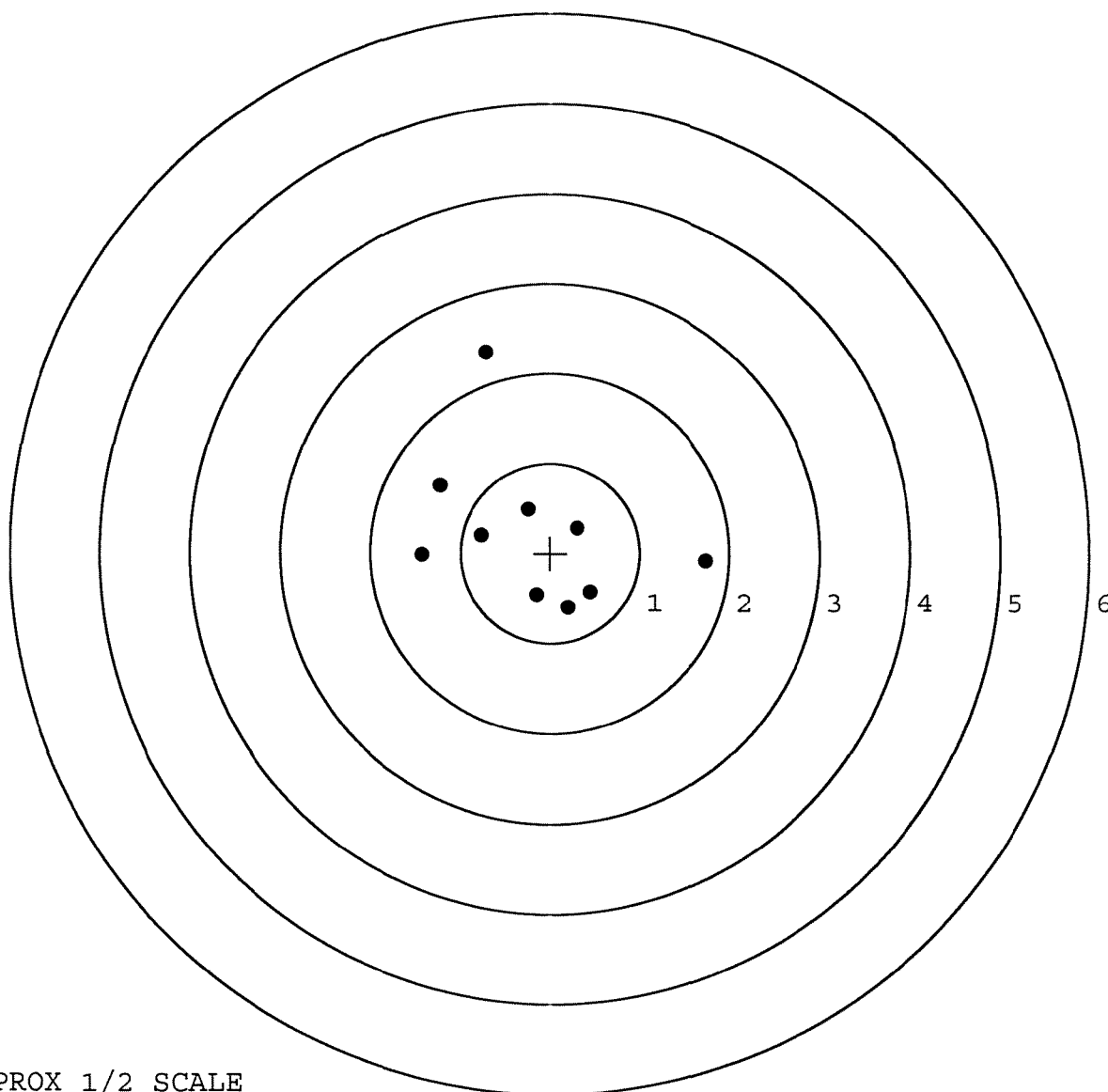


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6348780.___0
TARGET NUMBER: 2
FILE DATE: 05/23/2008
FILE TIME: 05:22

X CENTROID: -0.187
Y CENTROID: 0.232
POA TO CENTROID: 0.298
HORZ SPREAD: 3.167
VERT SPREAD: 2.840
GROUP SPREAD: 3.377
MIN RADIUS: 0.260
MAX RADIUS: 2.068
MEAN RADIUS: 1.034
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 6
in 3 IN DIAMETER: 8

POINT#	X	Y
1:	1.739	-0.081
2:	-0.724	2.229
3:	-1.229	0.752
4:	-0.253	0.484
5:	0.304	0.276
6:	-0.768	0.198
7:	-1.428	-0.021
8:	-0.159	-0.467
9:	0.197	-0.611
10:	0.453	-0.435

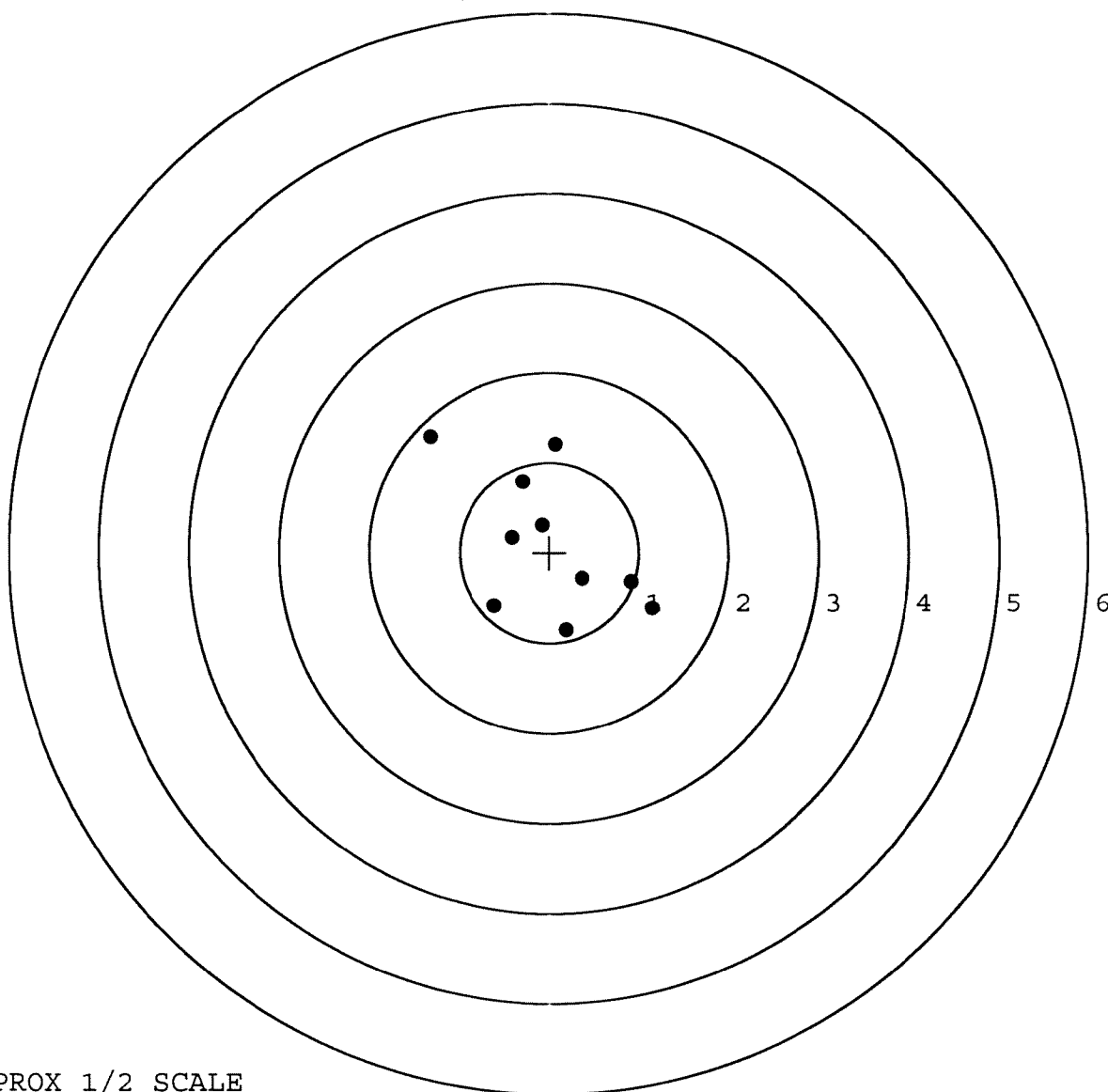


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6348780.____0
TARGET NUMBER: 3
FILE DATE: 05/23/2008
FILE TIME: 05:22

X CENTROID: -0.005
Y CENTROID: 0.103
POA TO CENTROID: 0.103
HORZ SPREAD: 2.470
VERT SPREAD: 2.138
GROUP SPREAD: 3.112
MIN RADIUS: 0.215
MAX RADIUS: 1.763
MEAN RADIUS: 0.906
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 6
in 3 IN DIAMETER: 9

POINT#	X	Y
1:	1.149	-0.617
2:	0.915	-0.324
3:	0.369	-0.290
4:	0.187	-0.862
5:	-0.619	-0.599
6:	-0.084	0.303
7:	-0.416	0.165
8:	-0.299	0.786
9:	0.072	1.194
10:	-1.321	1.276

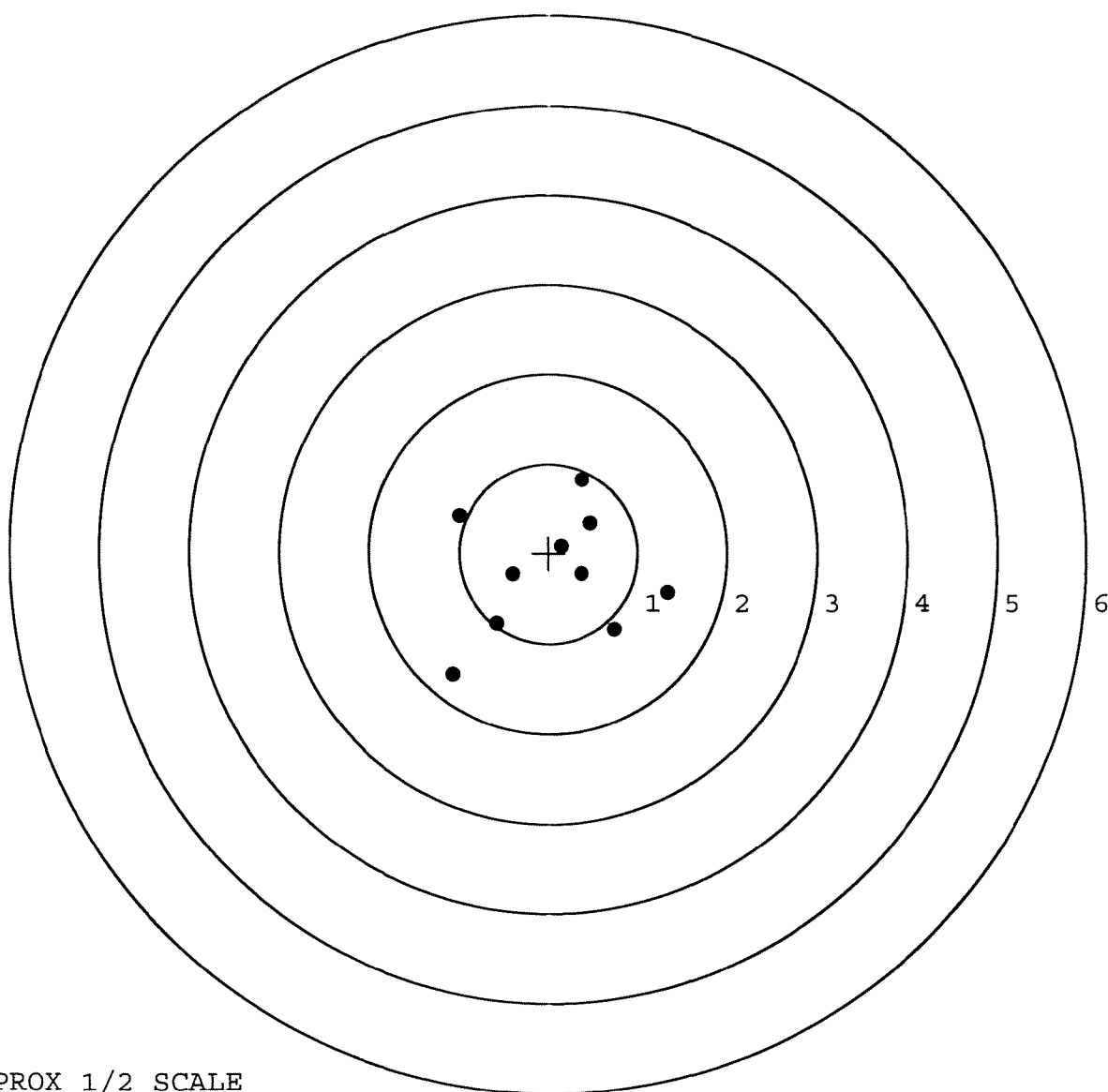


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6348780. __0
TARGET NUMBER: 4
FILE DATE: 05/23/2008
FILE TIME: 05:22

X CENTROID: 0.037
Y CENTROID: -0.222
POA TO CENTROID: 0.225
HORZ SPREAD: 2.405
VERT SPREAD: 2.163
GROUP SPREAD: 2.607
MIN RADIUS: 0.318
MAX RADIUS: 1.580
MEAN RADIUS: 0.877
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 6
in 3 IN DIAMETER: 9

POINT#	X	Y
1:	1.327	-0.434
2:	0.739	-0.847
3:	0.368	-0.228
4:	0.142	0.078
5:	0.469	0.337
6:	0.378	0.821
7:	-0.994	0.418
8:	-0.402	-0.234
9:	-0.584	-0.786
10:	-1.078	-1.342

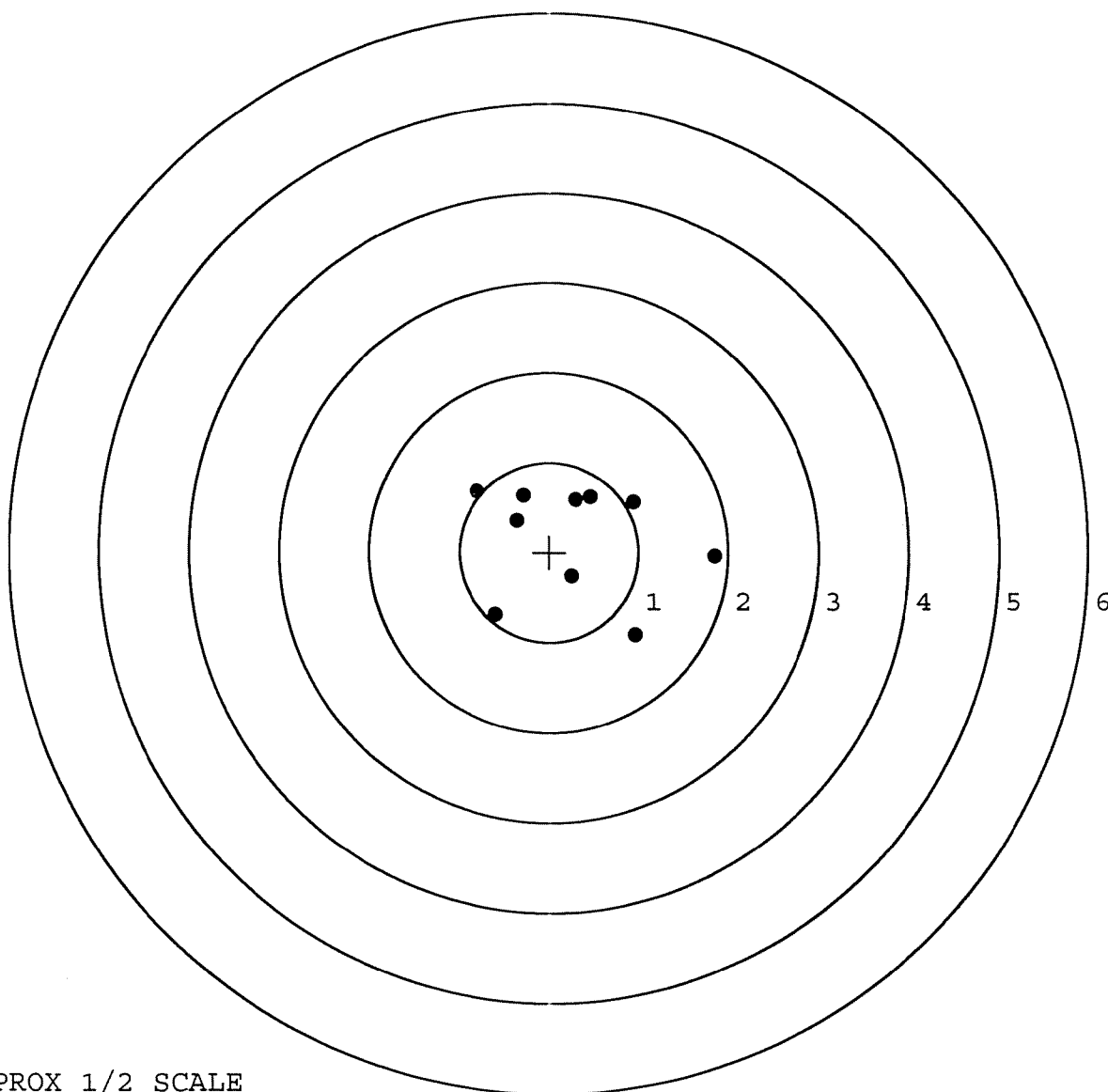


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6348780. __0
TARGET NUMBER: 5
FILE DATE: 05/23/2008
FILE TIME: 05:22

X CENTROID: 0.270
Y CENTROID: 0.148
POA TO CENTROID: 0.308
HORZ SPREAD: 2.655
VERT SPREAD: 1.599
GROUP SPREAD: 2.751
MIN RADIUS: 0.421
MAX RADIUS: 1.589
MEAN RADIUS: 0.884
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 6
in 3 IN DIAMETER: 9

POINT#	X	Y
1:	1.848	-0.041
2:	0.965	-0.920
3:	0.940	0.554
4:	0.463	0.617
5:	0.298	0.586
6:	-0.288	0.631
7:	-0.362	0.348
8:	-0.807	0.679
9:	0.249	-0.273
10:	-0.603	-0.703



TARGET APPROX 1/2 SCALE

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

R & E NUMBER 144841
SERIAL NUMBER C6348780
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	unus
510	DRILL AND TAP	5-7-08	TRW
615	ROLLMARK CALIBER	5-7-08	CW
618	ROTO-BLAST	5-9-08	DG
620	APPLY COATINGS	5/19/08	CW
625	FINAL ASSEMBLY	5-21-08	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	5/27/08	FM
	A) HEADSPACE	5/27/08	FM
	B) TRIGGER PULL	2.96 2.92 2.93 2.92 2.93 5/27/08	FM
680	F) SAFETY ON FORCE	6.5 6- 6- 5/27/08	FM
	G) SAFETY OFF FORCE	4- 4- 4- 5/27/08	FM
	I) FIRING PIN INDENT	.021 .021 .021 5/27/08	FM
690	PACK	5/29/08	FM

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6348780.___0
FILE DATE AND TIME: 05/06/2005 07:18

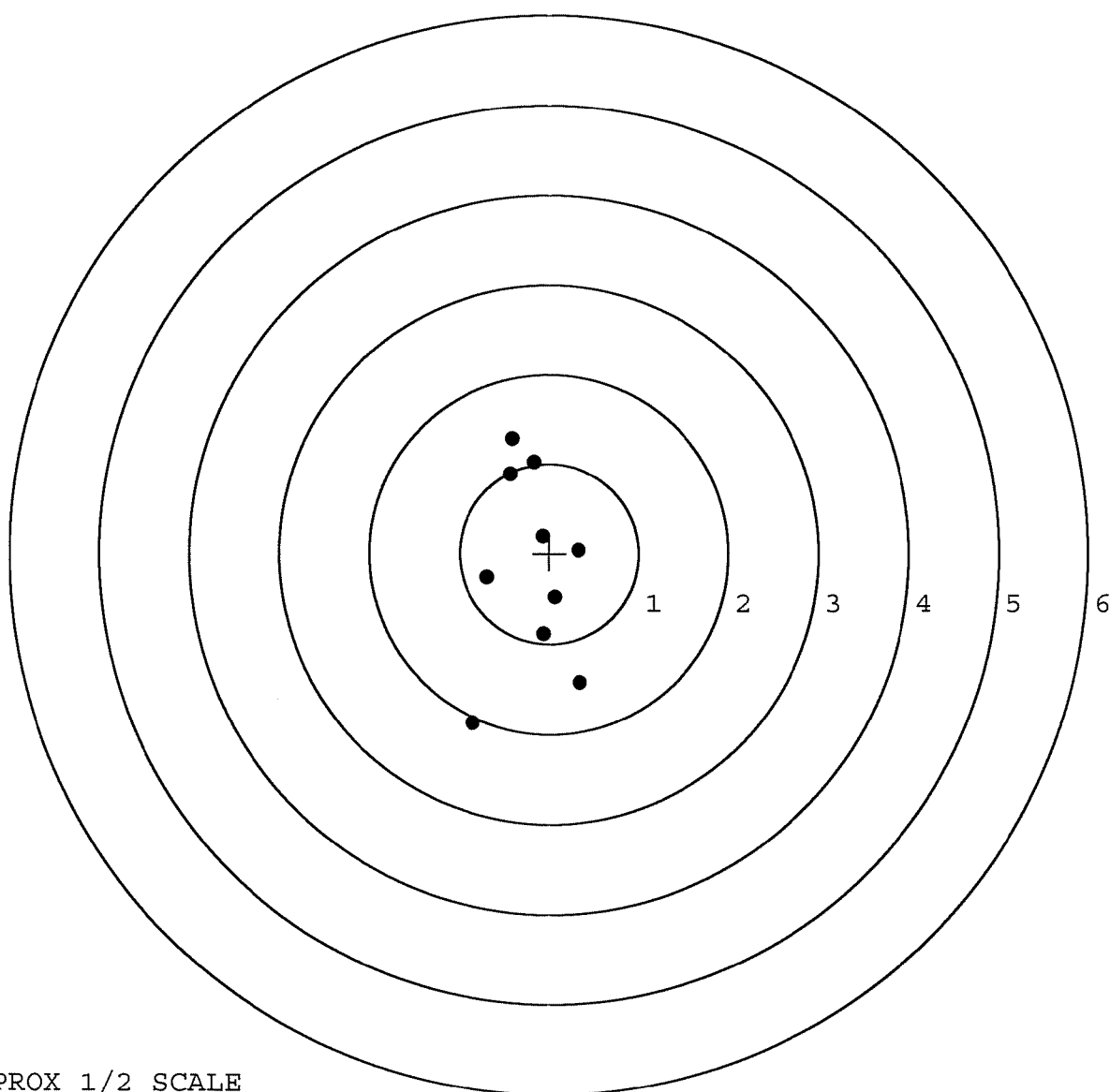
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.023
The Average Y Centroid of the Five Target Set:	-0.016
The Average Point of Impact of the Five Target Set:	0.028
The Average Mean Radius of the Five Target Set:	0.816
The Distance from POA to Centroid Target #1:	0.254
The Distance from Centroid Target #2 to Centroid Target #1:	0.729
The Distance from Centroid Target #3 to Centroid Target #1:	0.108
The Distance from Centroid Target #4 to Centroid Target #1:	0.381
The Distance from Centroid Target #5 to Centroid Target #1:	0.209

SERIAL NUMBER: C6348780. __0
TARGET NUMBER: 1
FILE DATE: 05/06/2005
FILE TIME: 07:18

X CENTROID: -0.201
Y CENTROID: -0.156
POA TO CENTROID: 0.254
HORZ SPREAD: 1.198
VERT SPREAD: 3.162
GROUP SPREAD: 3.192
MIN RADIUS: 0.364
MAX RADIUS: 1.846
MEAN RADIUS: 0.954
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 5
in 3 IN DIAMETER: 9

POINT#	X	Y
1:	0.342	-1.429
2:	-0.073	-0.898
3:	0.065	-0.491
4:	0.329	0.038
5:	-0.079	0.187
6:	-0.699	-0.268
7:	-0.856	-1.882
8:	-0.178	1.019
9:	-0.439	0.882
10:	-0.418	1.280



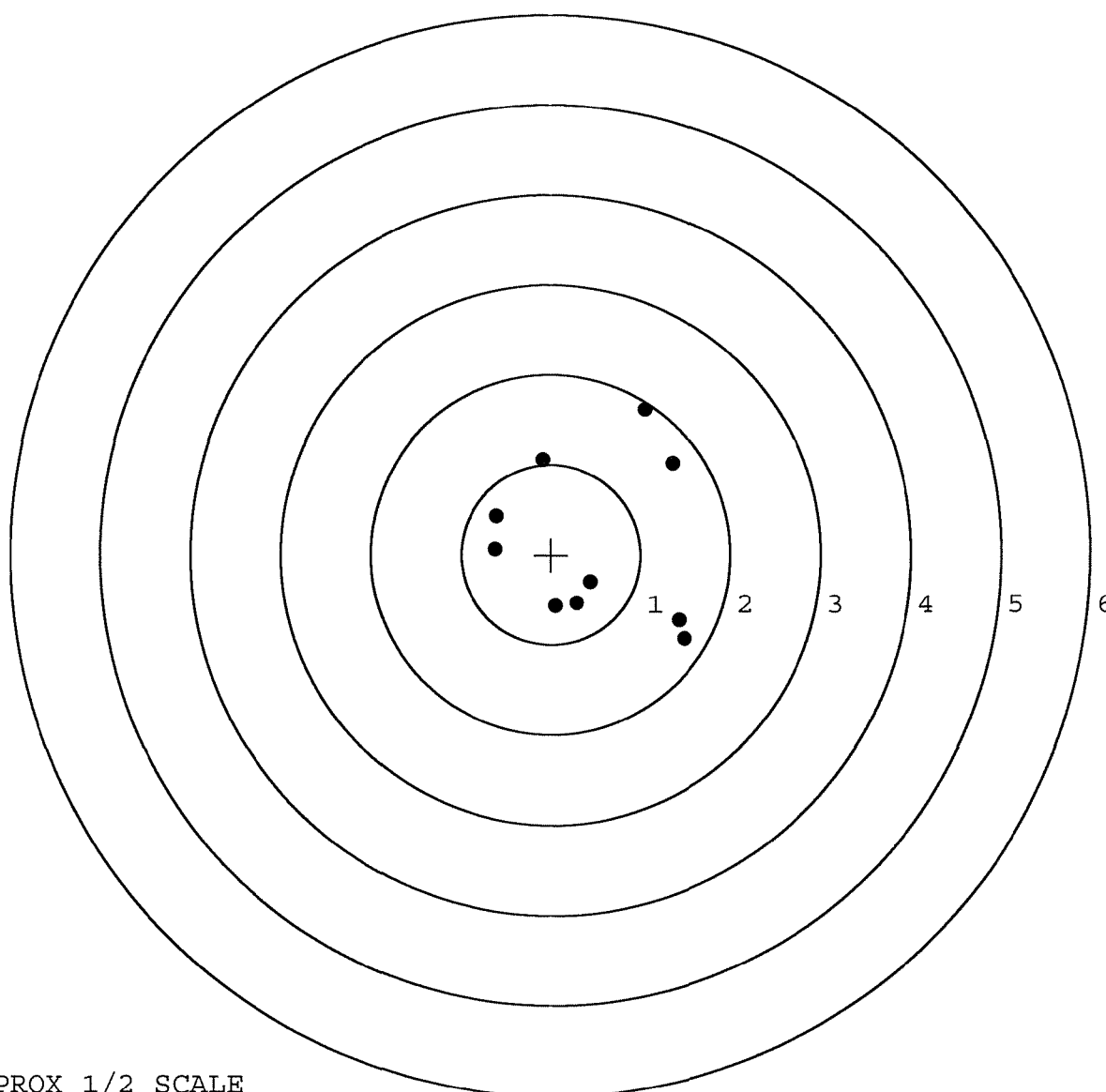
TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6348780. __0
TARGET NUMBER: 2
FILE DATE: 05/06/2005
FILE TIME: 07:18

X CENTROID: 0.479
Y CENTROID: 0.108
POA TO CENTROID: 0.491
HORZ SPREAD: 2.111
VERT SPREAD: 2.548
GROUP SPREAD: 2.585
MIN RADIUS: 0.415
MAX RADIUS: 1.608
MEAN RADIUS: 1.083

IN 1 IN DIAMETER: 1
IN 2 IN DIAMETER: 3
in 3 IN DIAMETER: 9

POINT#	X	Y
1:	1.491	-0.939
2:	1.431	-0.727
3:	0.443	-0.305
4:	0.290	-0.543
5:	0.051	-0.578
6:	-0.620	0.066
7:	-0.610	0.430
8:	-0.099	1.053
9:	1.354	1.014
10:	1.056	1.609



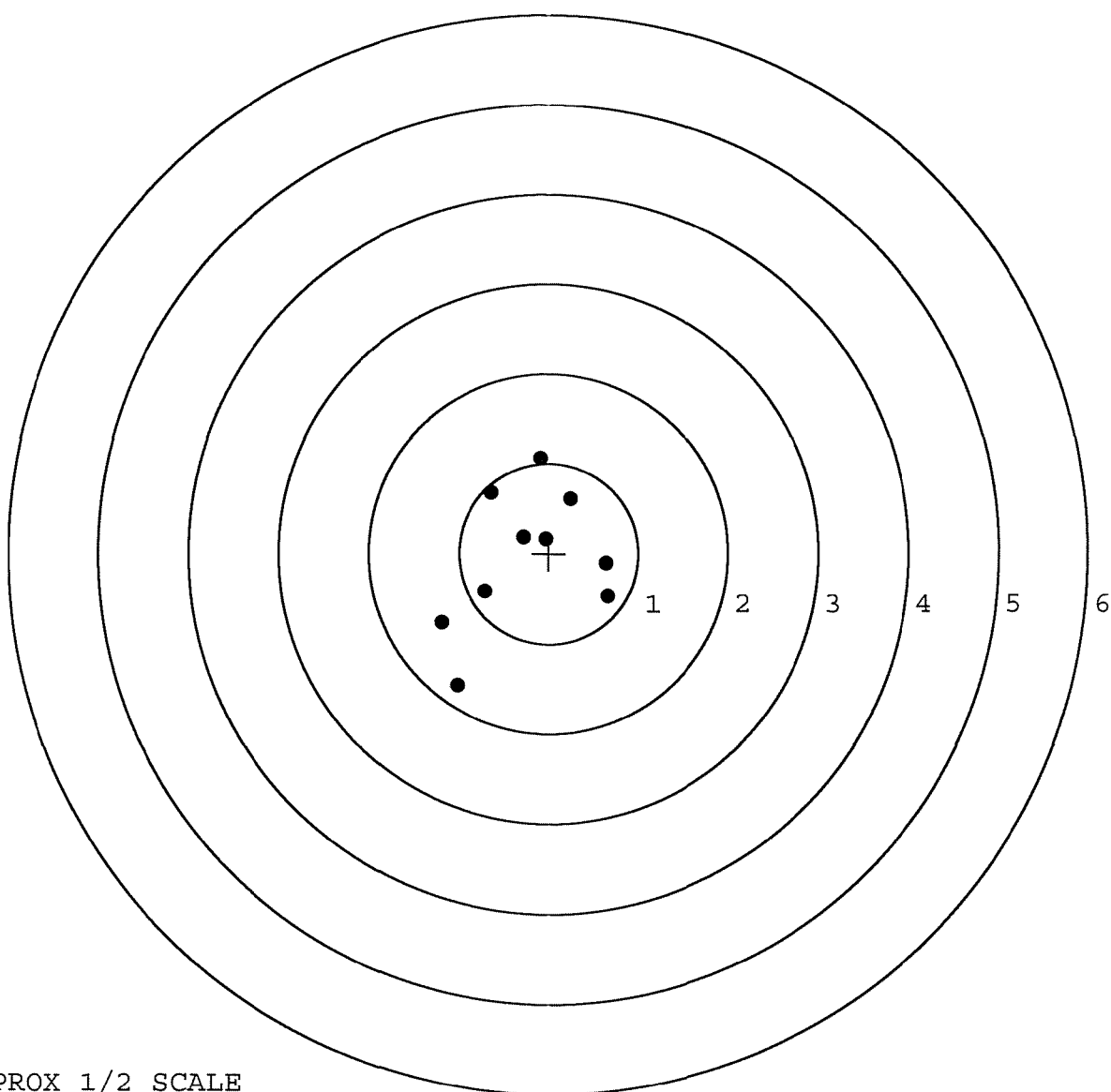
TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6348780. 0
TARGET NUMBER: 3
FILE DATE: 05/06/2005
FILE TIME: 07:18

X CENTROID: -0.242
Y CENTROID: -0.057
POA TO CENTROID: 0.249
HORZ SPREAD: 1.849
VERT SPREAD: 2.526
GROUP SPREAD: 2.689
MIN RADIUS: 0.239
MAX RADIUS: 1.609
MEAN RADIUS: 0.858

IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 9

POINT#	X	Y
1:	0.662	-0.470
2:	0.645	-0.107
3:	0.244	0.603
4:	-0.037	0.157
5:	-0.286	0.178
6:	-0.645	0.670
7:	-0.095	1.058
8:	-0.709	-0.420
9:	-1.187	-0.768
10:	-1.016	-1.468

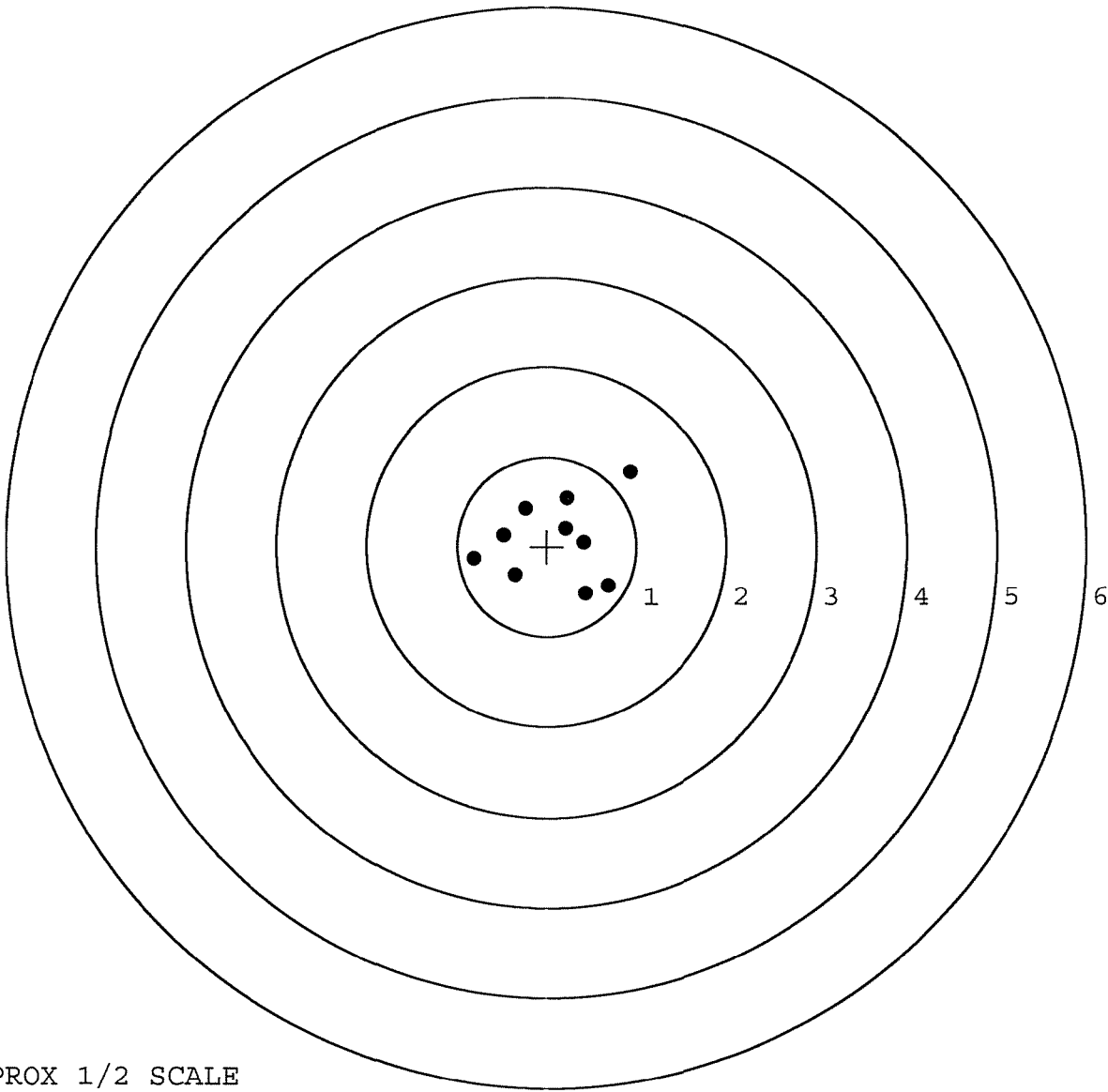


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6348780.____0
TARGET NUMBER: 4
FILE DATE: 05/06/2005
FILE TIME: 07:18

X CENTROID: 0.102
Y CENTROID: 0.076
POA TO CENTROID: 0.127
HORZ SPREAD: 1.742
VERT SPREAD: 1.359
GROUP SPREAD: 1.998
MIN RADIUS: 0.168
MAX RADIUS: 1.125
MEAN RADIUS: 0.618
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.436	-0.521
2:	0.693	-0.439
3:	0.930	0.838
4:	-0.245	0.420
5:	-0.481	0.126
6:	-0.354	-0.323
7:	-0.812	-0.141
8:	0.414	0.052
9:	0.213	0.202
10:	0.225	0.546



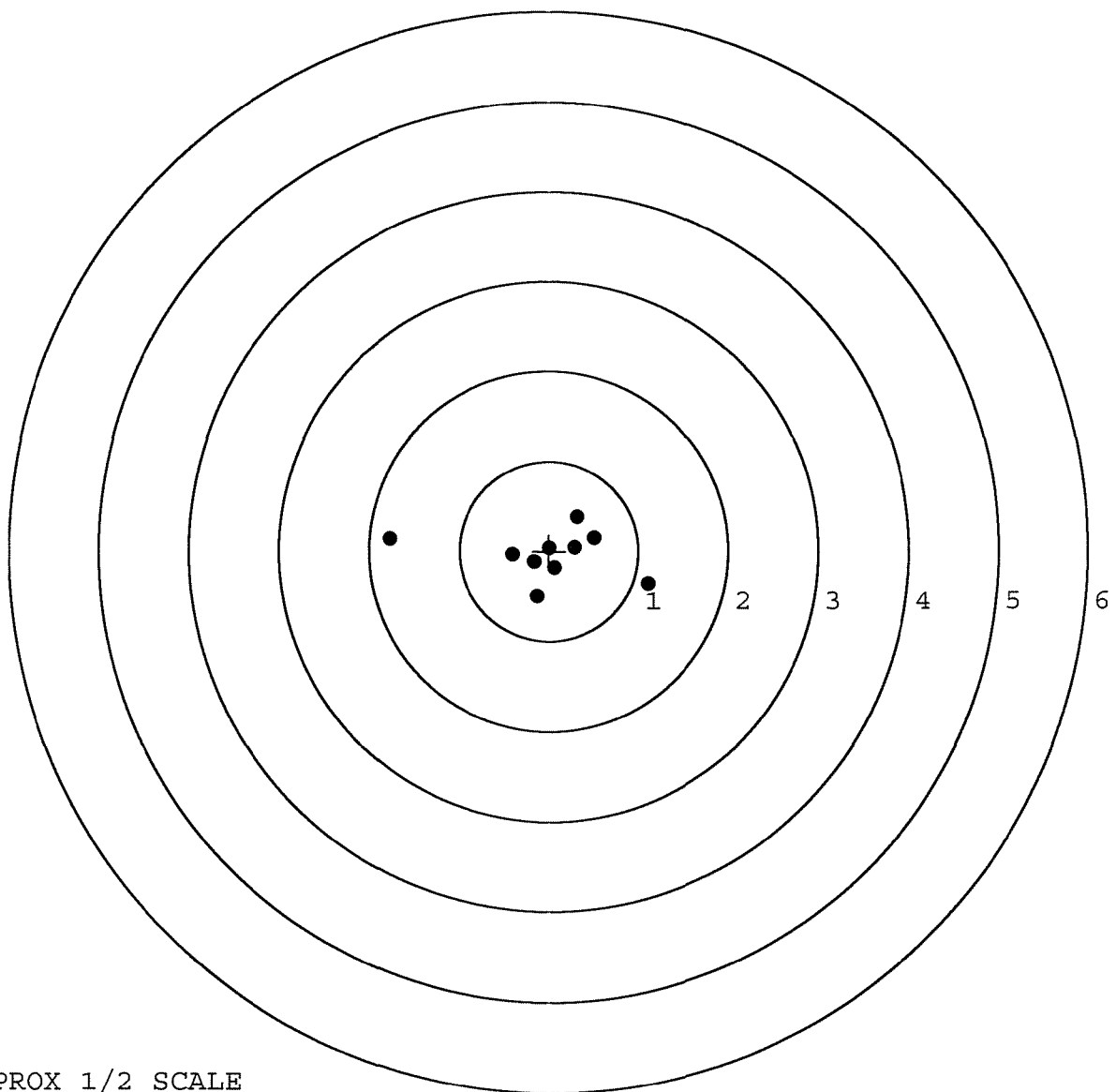
TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6348780. __0
TARGET NUMBER: 5
FILE DATE: 05/06/2005
FILE TIME: 07:18

X CENTROID: -0.020
Y CENTROID: -0.050
POA TO CENTROID: 0.054
HORZ SPREAD: 2.884
VERT SPREAD: 0.893
GROUP SPREAD: 2.925
MIN RADIUS: 0.090
MAX RADIUS: 1.761
MEAN RADIUS: 0.566

IN 1 IN DIAMETER: 6
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 9

POINT#	X	Y
1:	1.112	-0.362
2:	-1.772	0.127
3:	-0.137	-0.512
4:	-0.412	-0.043
5:	0.508	0.148
6:	0.314	0.381
7:	0.293	0.040
8:	-0.003	0.038
9:	0.062	-0.190
10:	-0.169	-0.126



TARGET APPROX 1/2 SCALE

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

R & E NUMBER	92455		
SERIAL NUMBER	C6348780		
LOG-IN DATE	2-4-05		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	4-1-05	RTL
560 A	RE-BARREL	4-7-05	RTL
B	DRILL AND TAP	4-11-05	TRW
575	ASSEMBLE	4-7-05	RTL
600	PROOF	4-8-05	A
605	CHECK HEADSPACE	4-8-05	A
610	DIS-ASSEMBLE GUN	4-11-05	RTL
612	MAGNAFLUX	OPERATOR	BS
615	ROLLMARK CALIBER	4-12-05	CW
618	ROTO-BLAST	4-18-05	LB
620	APPLY COATINGS	4-25-05	W
625 A	FINAL ASSEMBLY	5-2-05	RTL
B	TRIGGER PULL TEST	5-9-05	AC
C	SAFETY "ON" FORCE	5-9-05	AC
D	SAFETY "OFF" FORCE	5-9-05	AC
E	FIRING PIN INDENT	5-9-05	AC
640	TARGET	5-6-05	TRW
655	FINAL INSPECT	5-9-05	AC
660	PACK	5-11-05	RA
		SHIP DATE	
		QAR INSPECTION DATE	

Remington



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

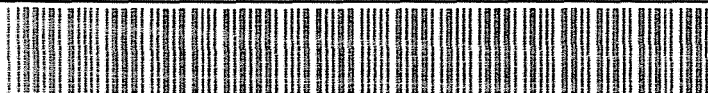
MODEL 700TM H24

SERIAL NO.
C6348780

ORDER NO.
5716

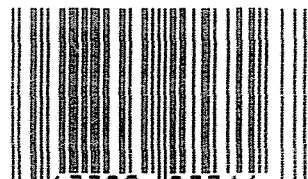
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat & Tm. Off, Marca Registrada Marque Deposee.

01



5716 C6348780

UPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6348780

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	7 25	89	RW
600	Proof	7 25	89	RW
607	Check Headspace		89	RW
610	Dis-assemble Gun			RW
612	Magnaflux Barrel Action		7/26/89	KR
	Magnaflux Bolt		7/26/89	KR
615	Rollmark Caliber		7/26/89	SS
.7	Drill and Tap Sight Holes		7/27/89	WC
618	Polish Barrel RB		7/31/89	WB
620	Apply Coatings (Barrel Action)		7-27-89	TJA
	Apply Coating (Bolt)			
625	Final Assembly			
	A) Clean inside of Bolt Assembly		8/7/89	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		8/7/89	RW
	C) Inspect Ejector Hole for Chamfer		8/7/89	RW
	D) Oil Firing Pin Ass'y		8/2/89	RW
	E) Adjust Trigger Pull to Min Setting and Stake		8/2/89	SS

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	5	5			8 Aug 89	JS
	G) Safety Off Force	3	3	3			8 Aug 89	JS
	H) Trigger Pull Test & Retainability						8 Aug 89	JS
	I) Firing Pin Indent	.021	.021	.021			8 Aug 89	JS
	J) Assemble Stock						8/10/89	RW
	K) Assemble Swivel Studs						16 Aug 89	JS
	L) Attach Front and Rear Sight Assemblies						8/10/89	RW
	M) Iron Sight Alignment						8/10/89	RW
	N) Detach Front & Rear Sights & place in numbered container						8/10/89	RW
	O) Attach Scope to Rifle						10 Aug 89	JS
	P) Detach & Attach Scope 20 Times						10 Aug 89	JS
640	Gallery Target & Test	97 R	55 L				8-14-89	A
	A) Time						8-14-89	A
	B) Malfunctions						8-14-89	A
	C) Pierced Primers						8-14-89	AC
	D) Optical Clarity of Scope						8-14-89	A
645	Inspect for Live Ammo						8-14-89	A
655	Final Inspection							
	A) Headspace						16 Aug 89	JS
	B) Trigger Pull	255	288	282	269	265	16 Aug 89	JS
	C) Function						16 Aug 89	JS
660	Pack						20 Sep 89	JS

TEST INIT. ACTION TO CORRECT		ASSEM. #
PROOF		
TEST		
TGT		
PROOF	100 Rd. OK	AC
TEST		
TGT		
PROOF	ENGINEER	
TEST		
TGT		
PROOF	ENGINEER	
TEST		
TGT		

MOD. _____		GA. CAL. _____	GUN # _____
# TEST	DATE	MALFUNCTION/DEFECT	ASSEM. #
	1st	does n't extract	DW
	2nd	New EXtractor	RW
	3rd		
	4th		

8/14/89

FUNCTION

RD 6654 Rev 1

SWS TRIGGER PULL TEST

8780

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. CL6348772

DATE 4-6-89

TESTER JS

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	221	238	252	273	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	218	260	252	236	
PULL #3	217	252	234	282	
PULL #4	245	254	253	228	
PULL #5	245	263	235	252	
TOTAL	1146	1267	1236	1271	
AVG.	2.292	2.534	2.472	2.542	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.08	280		
PULL #2	3.06	294		
PULL #3	3.03	295		
PULL #4	281	287		
PULL #5	294	293		
TOTAL	14.92	14.49		
AVG.	2.984	2.898		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.04	4.03		3.97
PULL #2	3.97	4.01		4.18
PULL #3	4.01	4.10		4.11
PULL #4	3.99	4.03		4.08
PULL #5	4.08	4.07		4.11
TOTAL	20.09	20.24		20.45
AVG.	4.018	4.048		4.09

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6348780
15 Aug 1989

CENTROIDAL DISTANCES

0 TO	1	.128281
1 TO	2	.6211
1 TO	3	.874108
1 TO	4	.368828
1 TO	5	.198305

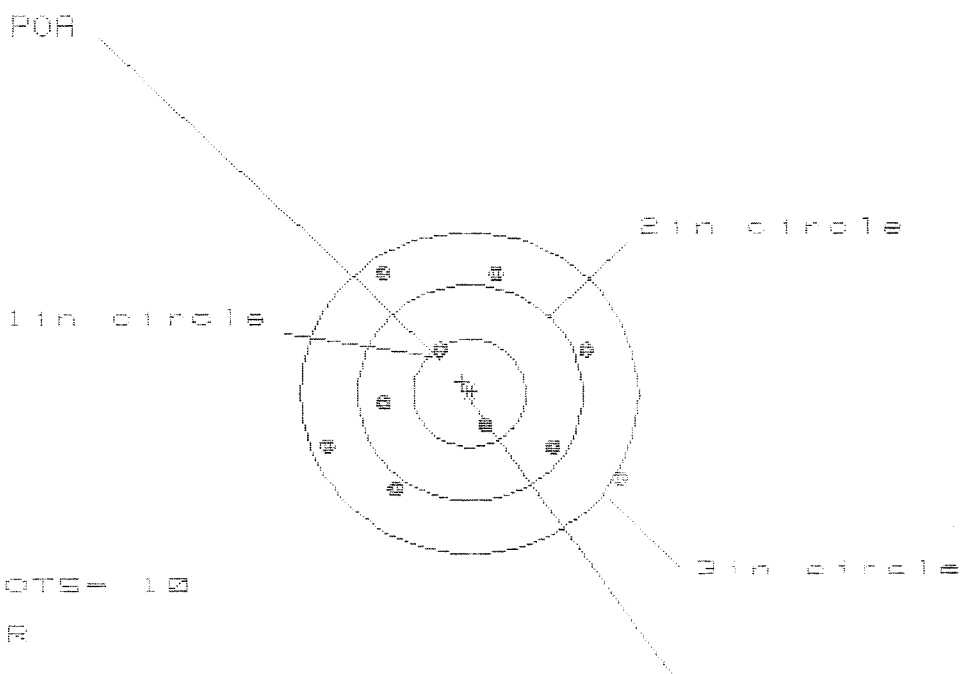
$\frac{2}{3} \frac{1}{45}$ <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.3166
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.1868
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .3676
THE AMR FOR THIS RIFLE IS: 1.108

15 Aug 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08346760

CENTERFIRE PATTERNS # 1



OF SHOTS= 10

IN CIR

1in = 2

2in = 4

3in = 9

HS= 2.531

VS= 2.031

GS= 2.777

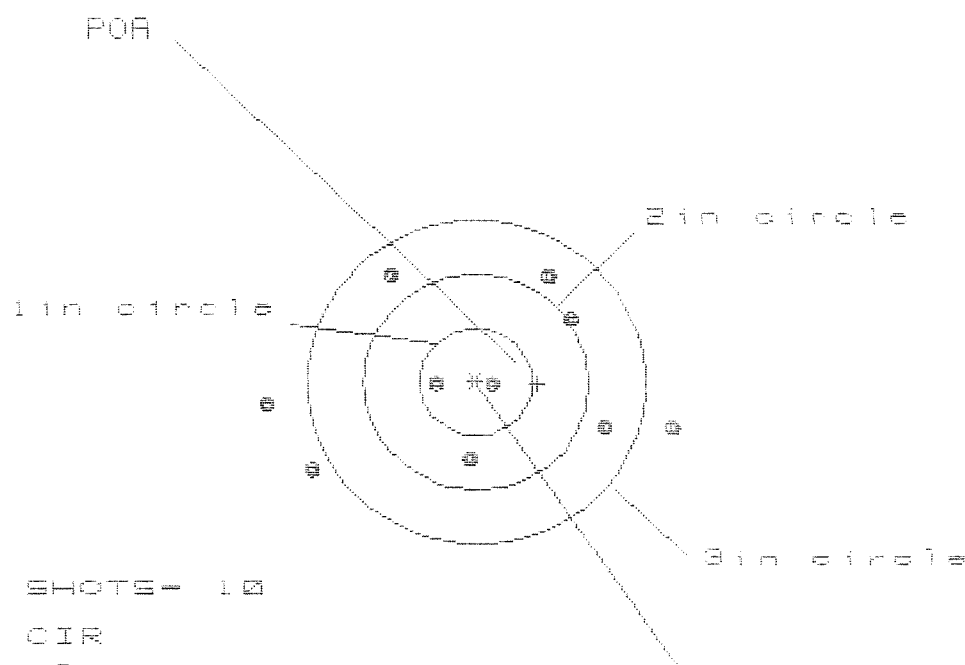
CENTROID *

PATTERN #	:	1	2	3
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.304	1.218	1.138
MINIMUM X	:	-1.227	-1.083	-1.163
MAXIMUM Y	:	1.109	1.024	1.146
MINIMUM Y	:	-.922	-1.007	-.885
CENTROID X	:	.066	-.073	.002
CENTROID Y	:	-.110	-.026	-.148
POA TO CENTROID in.	:	.129	.083	.148
MIN RADIUS	:	.372	.367	.375
MEAN RADIUS	:	1.008	.940	.902
MAX RADIUS	:	1.510	1.271	1.237
HORIZONTAL SPREAD	:	2.531	2.301	2.301
VERTICAL SPREAD	:	2.031	2.031	2.031
EXTREME SPREAD	:	2.777	2.470	2.470
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		9	

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CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1in = 2

2in = 3

3in = 7

HS= 3.618

VS= 1.772

GS= 3.629

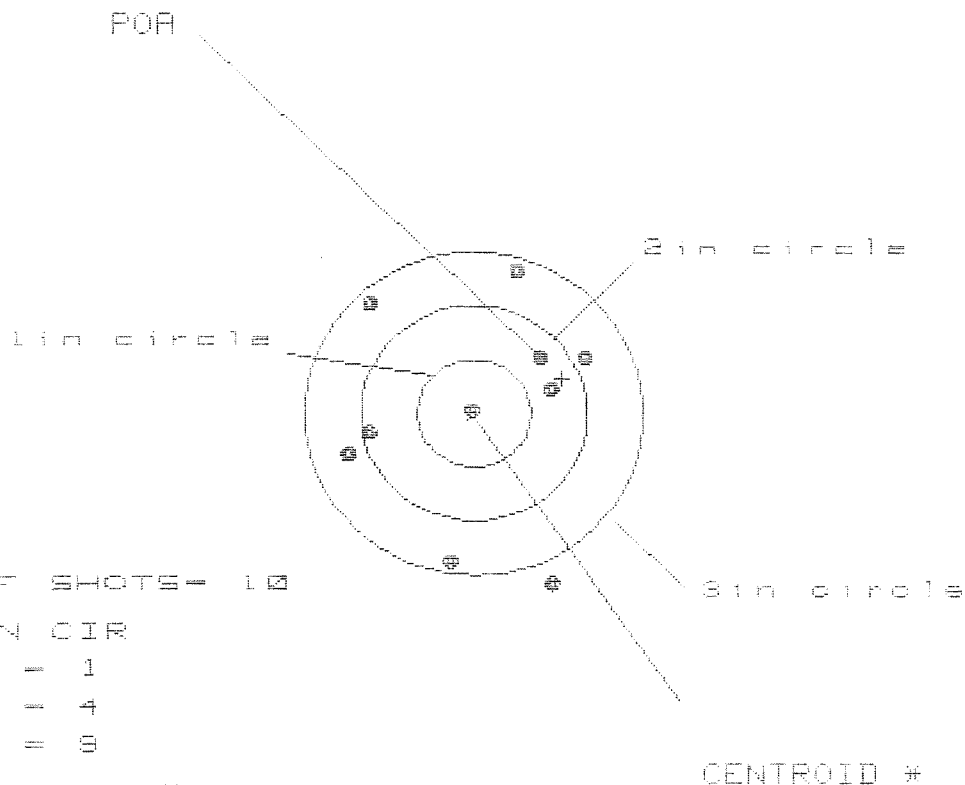
CENTROID *

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.749	1.542	1.137
MINIMUM X	:	-1.869	-1.664	-1.472
MAXIMUM Y	:	.994	.976	.917
MINIMUM Y	:	-.778	-.796	-.855
CENTROID X	:	-.543	-.336	-.528
CENTROID Y	:	.012	.030	.089
POA TO CENTROID in.	:	.544	.337	.536
MIN RADIUS	:	.134	.082	.151
MEAN RADIUS	:	1.121	1.022	.942
MAX RADIUS	:	1.876	1.845	1.702
HORIZONTAL SPREAD	:	3.618	3.206	2.609
VERTICAL SPREAD	:	1.772	1.772	1.772
EXTREME SPREAD	:	3.629	3.222	2.744
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		7	

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CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 4

3 in = 5

HS= 2.153

VS= 2.830

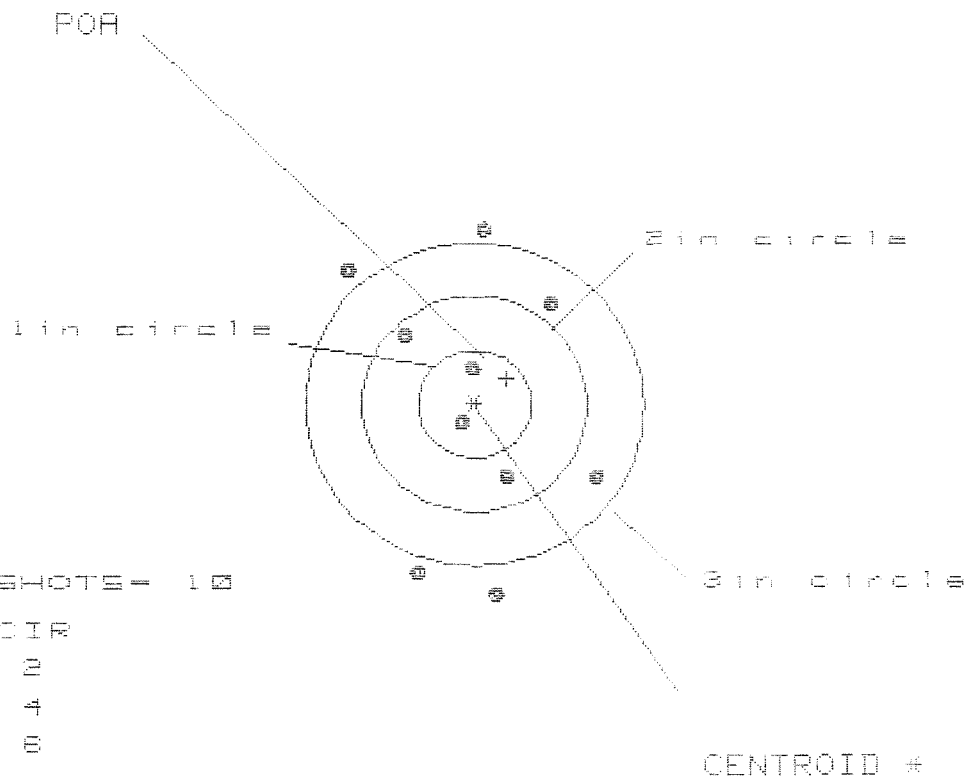
GS= 2.977

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.991	1.063	1.050
MINIMUM X	:	-1.162	-1.090	-1.103
MAXIMUM Y	:	1.281	1.109	.911
MINIMUM Y	:	-1.549	-1.583	-.772
CENTROID X	:	-.781	-.853	-.840
CENTROID Y	:	-.326	-.154	.044
POA TO CENTROID in.	:	.846	.866	.841
MIN RADIUS	:	.062	.129	.324
MEAN RADIUS	:	1.060	.980	.900
MAX RADIUS	:	1.678	1.586	1.346
HORIZONTAL SPREAD	:	2.153	2.153	2.153
VERTICAL SPREAD	:	2.830	2.692	1.883
EXTREME SPREAD	:	2.977	2.751	2.333
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		9	

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CENTERFIRE PATTERNS # 4



OF SHOTS = 10

IN CIR

1 in = 2

2 in = 4

3 in = 6

HS = 2.142

VS = 3.391

GS = 3.392

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.052	1.076	.942
MINIMUM X	:	-1.090	-1.066	-.755
MAXIMUM Y	:	1.608	1.410	1.548
MINIMUM Y	:	-1.783	-1.745	-1.609
CENTROID X	:	-.281	-.385	-.171
CENTROID Y	:	-.235	-.037	-.173
POA TO CENTROID in.	:	.366	.387	.243
MIN RADIUS	:	.142	.161	.261
MEAN RADIUS	:	1.125	1.035	.973
MAX RADIUS	:	1.795	1.810	1.723
HORIZONTAL SPREAD	:	2.142	2.142	1.697
VERTICAL SPREAD	:	3.391	3.155	3.155
EXTREME SPREAD	:	3.392	3.215	3.215
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		6	

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CENTERFIRE PATTERNS # 5

FOR

1 in circle

2 in circle

3 in circle

CENTROID #

OF SHOTS= 10

IN CIR

1 in = 1

2 in = 4

3 in = 6

HS= 2.588

VS= 2.599

GS= 3.873

PATTERN #	5		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.563	1.338	1.466
MINIMUM X	-2.025	-1.366	-1.238
MAXIMUM Y	1.499	1.389	1.509
MINIMUM Y	-1.100	-1.210	-1.890
CENTROID X	-.044	.181	.053
CENTROID Y	-.275	-.165	-.285
FOR TO CENTROID in.	.279	.245	.289
MIN RADIUS	.356	.237	.261
MEAN RADIUS	1.225	1.081	1.036
MAX RADIUS	2.256	1.754	1.578
HORIZONTAL SPREAD	3.588	2.704	2.704
VERTICAL SPREAD	2.599	2.599	2.599
EXTREME SPREAD	3.873	3.157	2.787
NUMBER IN ONE INCH CIRCLE =		1	
NUMBER IN TWO INCH CIRCLE =		4	
NUMBER IN THREE INCH CIRCLE =		6	