

C6225463

MODEL 700™ M24

Model 700 M24™

Action

Barrel Length

Capacity

Order No. 5715

*Includes 1 in chamber.



Repair Inquiry

Repair Number: RE00135892

Serial: C6225463 Model M24 SWS Center Fire
Caliber: 7.62 NATO Produced: 10/26/1988

Repairman:

Verify Repair

Status:

Closed 10/26/2007 8:26:09 AM

Address Information

Customer:

Received From

Return To:

Received From

Name: US ARDEC RDECOM

US ARDEC RDECOM

Address 1: ROUTE 15 (973-724-4031)

ROUTE 15 (973-724-4031)

Address 2: BLDG. 34 NORTH

PO Box:

BLDG. 34 NORTH

PO Box:

City: PICATINNY ARSENAL

PICATINNY ARSENAL

State: NJ

Zip Code: 07806

Country: US

State: NJ

Zip Code: 07806

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
A017	Scope Base	1
A057	Frt and Rear Sgt Base	1

Repair Search

Refresh

Close

nagletj

10/29/2007

10:57 AM

CAPS

NUM

INS

SCRL



Serial Number:

C6225463

Model: M24 SWS



RE00135892

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6225463.___0

FILE DATE AND TIME: 12/12/2007 12:48

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.046
The Average Y Centroid of the Five Target Set:	0.004
The Average Point of Impact of the Five Target Set:	0.046
The Average Mean Radius of the Five Target Set:	0.692
The Distance from POA to Centroid Target #1:	0.058
The Distance from Centroid Target #2 to Centroid Target #1:	0.066
The Distance from Centroid Target #3 to Centroid Target #1:	0.047
The Distance from Centroid Target #4 to Centroid Target #1:	0.268
The Distance from Centroid Target #5 to Centroid Target #1:	0.190

SERIAL NUMBER: C6225463. __0

TARGET NUMBER: 1

FILE DATE: 12/12/2007

FILE TIME: 12:48

X CENTROID: -0.039

Y CENTROID: 0.043

POA TO CENTROID: 0.058

HORZ SPREAD: 1.788

VERT SPREAD: 1.605

GROUP SPREAD: 2.079

MIN RADIUS: 0.273

MAX RADIUS: 1.315

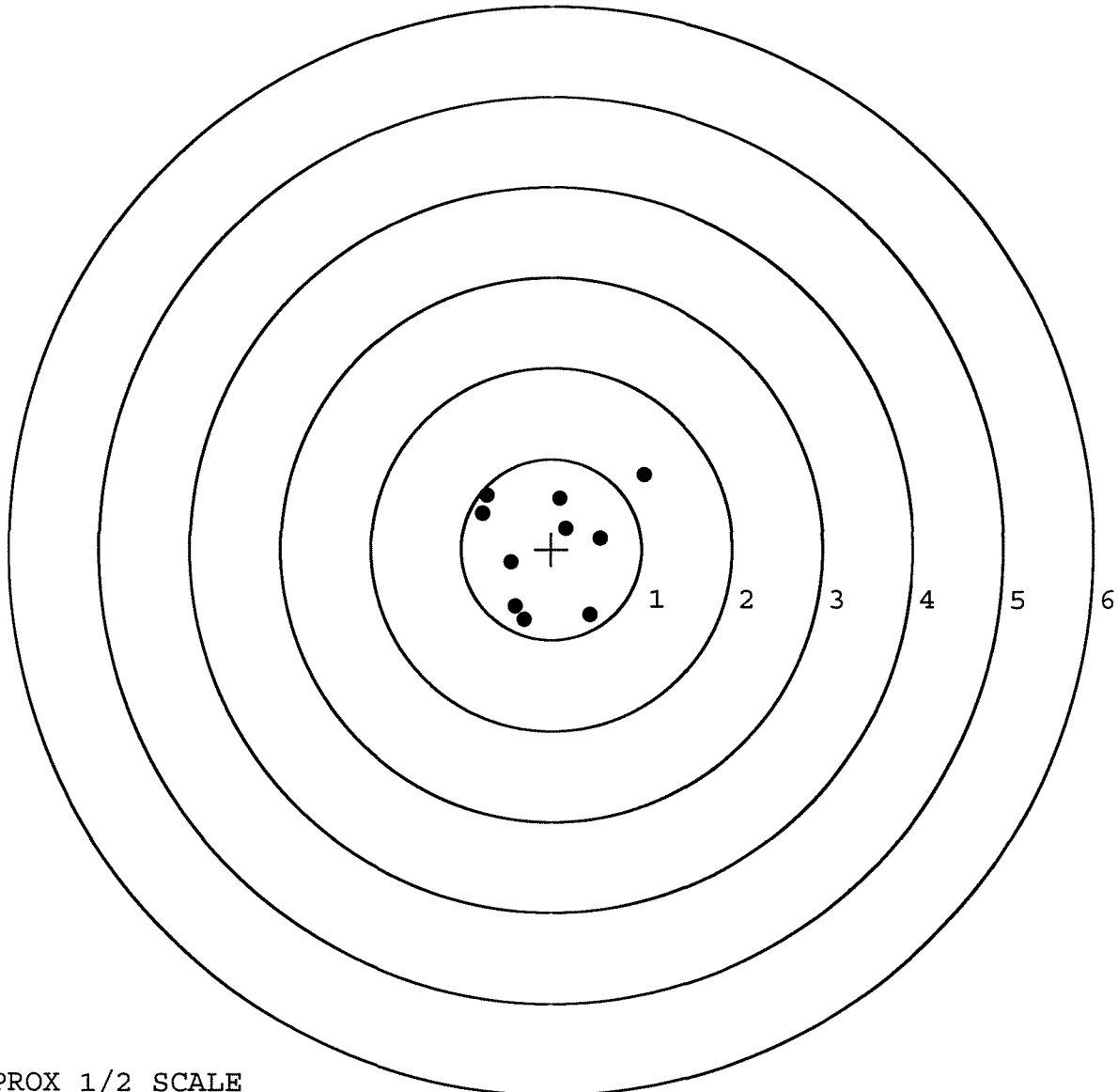
MEAN RADIUS: 0.739

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.301	-0.784
2:	-0.401	-0.634
3:	0.431	-0.732
4:	1.021	0.821
5:	0.541	0.121
6:	0.160	0.230
7:	0.092	0.563
8:	-0.452	-0.149
9:	-0.767	0.397
10:	-0.716	0.598



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225463. __0

TARGET NUMBER: 2

FILE DATE: 12/12/2007

FILE TIME: 12:48

X CENTROID: -0.014

Y CENTROID: -0.018

POA TO CENTROID: 0.022

HORZ SPREAD: 2.223

VERT SPREAD: 1.629

GROUP SPREAD: 2.240

MIN RADIUS: 0.178

MAX RADIUS: 1.348

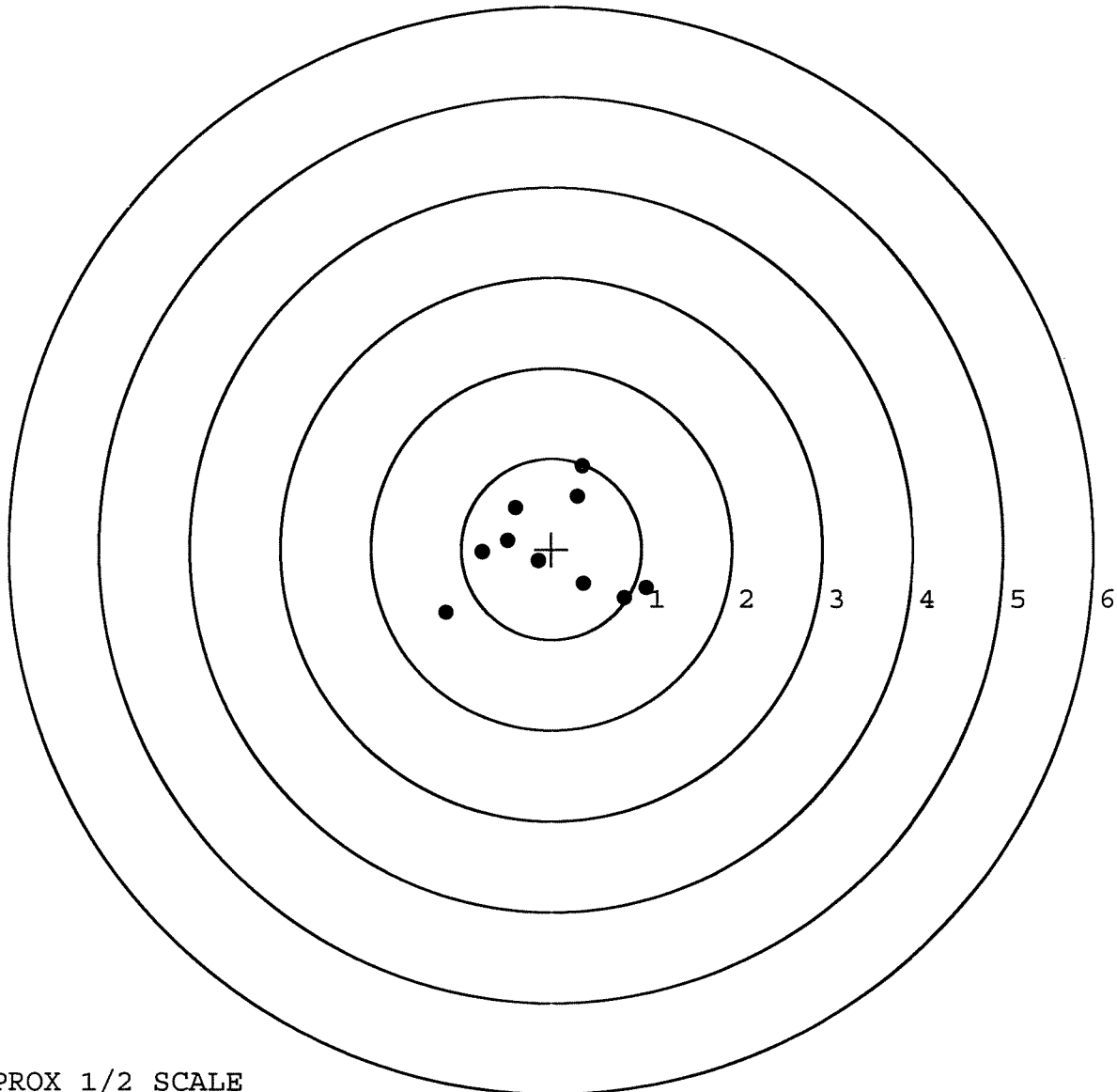
MEAN RADIUS: 0.770

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.346	0.919
2:	0.291	0.585
3:	-0.404	0.455
4:	-0.492	0.100
5:	-0.771	-0.035
6:	-1.170	-0.710
7:	-0.150	-0.131
8:	0.355	-0.381
9:	0.807	-0.546
10:	1.053	-0.431

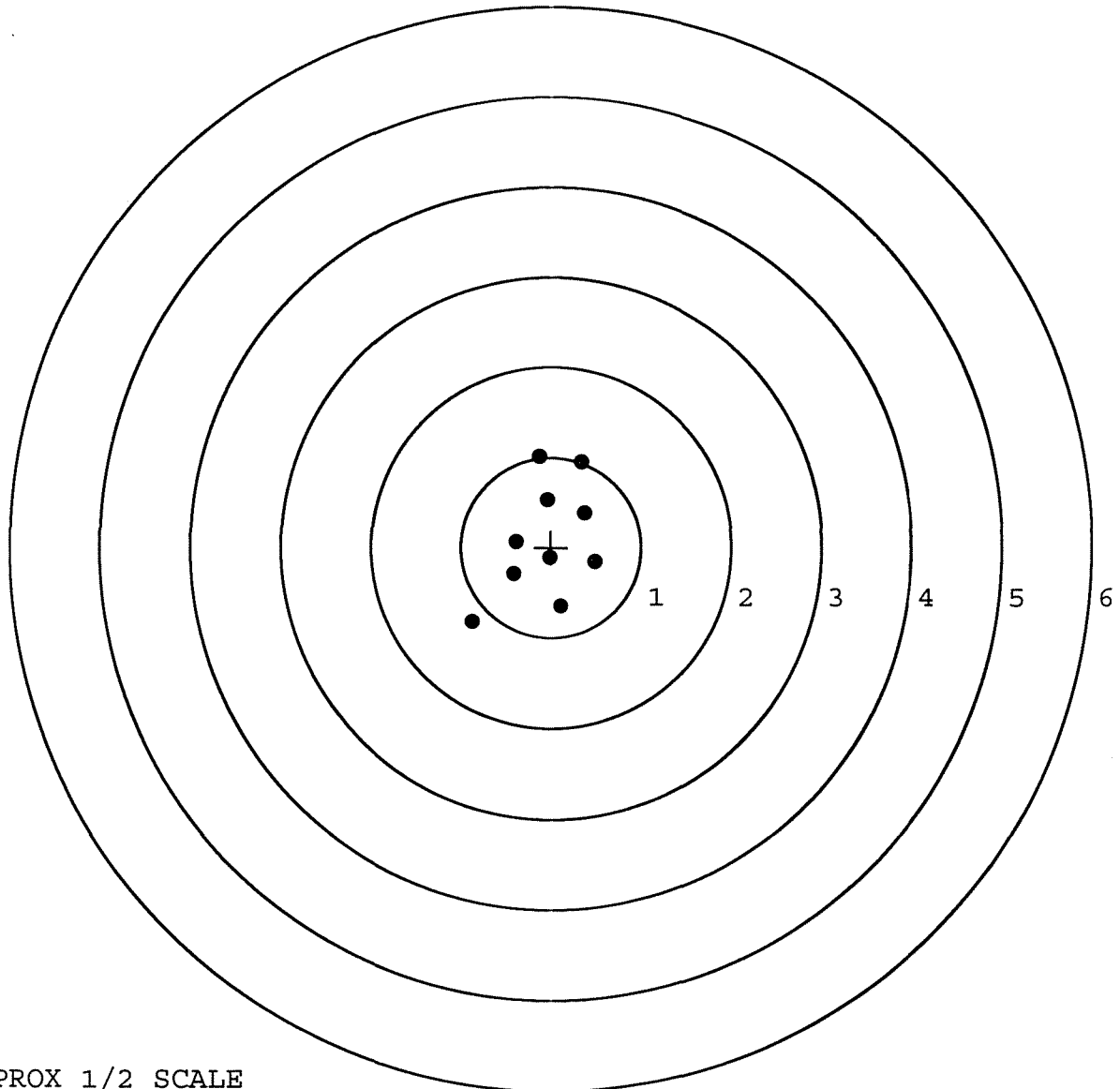


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225463. 0
 TARGET NUMBER: 3
 FILE DATE: 12/12/2007
 FILE TIME: 12:48

X CENTROID: -0.057
 Y CENTROID: 0.087
 POA TO CENTROID: 0.104
 HORZ SPREAD: 1.366
 VERT SPREAD: 1.840
 GROUP SPREAD: 2.159
 MIN RADIUS: 0.209
 MAX RADIUS: 1.232
 MEAN RADIUS: 0.649
 # IN 1 IN DIAMETER: 3
 # IN 2 IN DIAMETER: 9
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.127	1.010
2:	0.345	0.948
3:	0.367	0.384
4:	-0.053	0.527
5:	0.487	-0.162
6:	0.110	-0.658
7:	-0.879	-0.830
8:	-0.416	-0.297
9:	-0.387	0.065
10:	-0.015	-0.118



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225463. __ 0

TARGET NUMBER: 4

FILE DATE: 12/12/2007

FILE TIME: 12:48

X CENTROID: 0.217

Y CENTROID: -0.036

POA TO CENTROID: 0.220

HORZ SPREAD: 1.281

VERT SPREAD: 1.522

GROUP SPREAD: 1.606

MIN RADIUS: 0.217

MAX RADIUS: 1.050

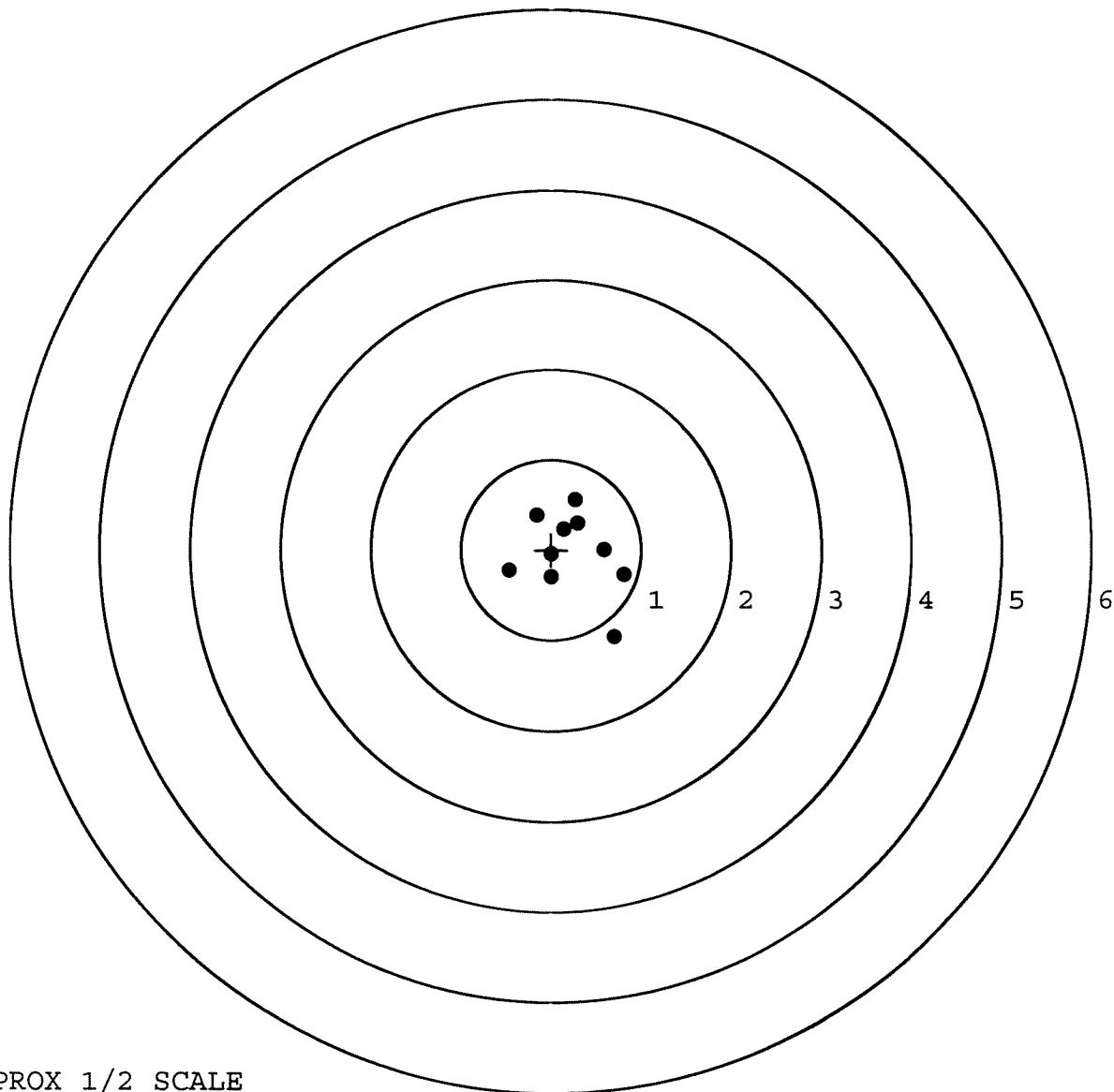
MEAN RADIUS: 0.512

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.701	-0.968
2:	0.811	-0.278
3:	0.590	-0.005
4:	0.268	0.554
5:	-0.164	0.385
6:	-0.470	-0.228
7:	-0.005	-0.300
8:	0.001	-0.051
9:	0.295	0.295
10:	0.145	0.233



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225463. 0

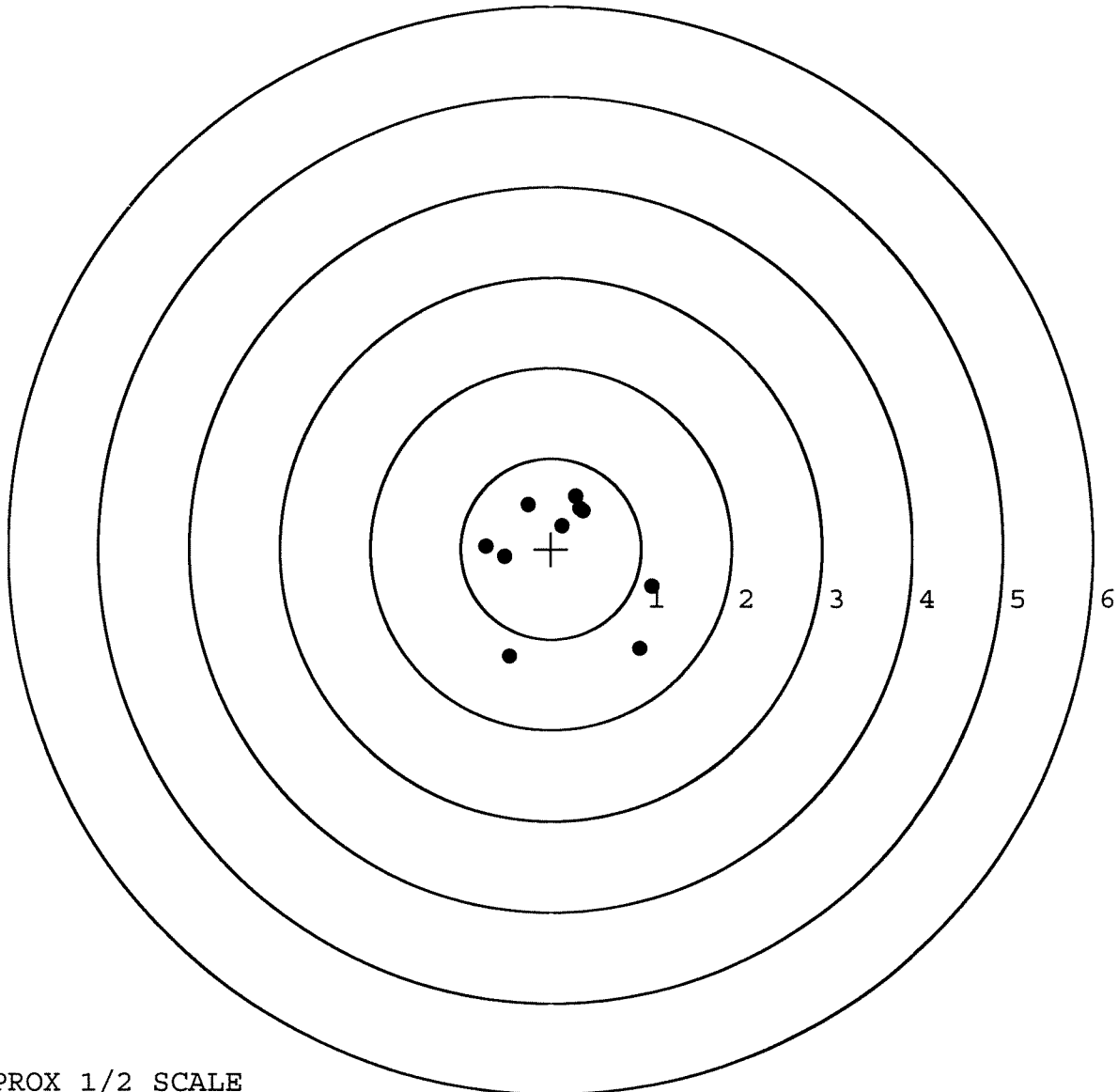
TARGET NUMBER: 5

FILE DATE: 12/12/2007

FILE TIME: 12:48

X CENTROID: 0.122
 Y CENTROID: -0.058
 POA TO CENTROID: 0.135
 HORZ SPREAD: 1.839
 VERT SPREAD: 1.783
 GROUP SPREAD: 2.054
 MIN RADIUS: 0.318
 MAX RADIUS: 1.362
 MEAN RADIUS: 0.791
 # IN 1 IN DIAMETER: 1
 # IN 2 IN DIAMETER: 7
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.464	-1.197
2:	0.985	-1.112
3:	1.118	-0.414
4:	-0.514	-0.093
5:	-0.721	0.031
6:	-0.257	0.489
7:	0.122	0.260
8:	0.323	0.450
9:	0.276	0.586
10:	0.356	0.425



TARGET APPROX 1/2 SCALE

R & E NUMBER		135892	
SERIAL NUMBER		C6225463	
LOG-IN DATE		10-26-07	
OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	11-14-07	SPD
505	RE-BARREL	11-27-07	SPD
560	ASSEMBLE	11-27-07	SPD
600	PROOF	11-27-07	TRW
605	CHECK HEADSPACE	11-27-07	TRW
610	DIS-ASSEMBLE GUN		
612	MAGNAFLUX	12-07-07	JB
510	DRILL AND TAP	12-3-07	TRW
615	ROLLMARK CALIBER	12-3-07	CW
618	ROTO-BLAST	12-5-07	LY
620	APPLY COATINGS	12-8-07	CM
625	FINAL ASSEMBLY	12-11-07	TR
640	FUNCTION TEST AND	PASS FAIL	12-12-07 TRW
650	TARGET	PASS FAIL	12-12-07 TRW
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	12-12-07 FM
670	FINAL INSPECTION		12-13-07 DA
	A) HEADSPACE	PASS FAIL	12-13-07 DA
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	2.53 2.54 2.54 2.54 2.55 12-13-07 DA
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS MAX	5.2 4.5 4.5 12-13-07 DA
	G) SAFETY OFF FORCE	2 LBS MIN	2.5 2.5 2.5 12-13-07 DA
	I) FIRING PIN INDENT	.020	.022 .021 .021 12-13-07 DA
690	PACK		12-13-08 FM

BARBER - M24 0061429 M2400061464

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C 6225463

OPERATION		DATE	INT
#	NAME		
575-580	ASSEMBLY 2	26	FB
600	PROOF 2	29	RW
615	MAGNAFLUX BARREL	5/13/88	PJL.
	MAGNAFLUX BOLT	5/13/88	PJL.
620	COATING	8/11/88	JA
625-630	FINAL ASSEMBLY		
635	TEST		
640	TARGET		
	FIRING PIN INDENT		
660	PACK		

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225463

OP. #	OP. NAME	READINGS	DATE	INITIAL
575 & 580	Assemble Action and stock			
600	Proof			
607	Check Headspace			
610	Dis-assemble gun			
612	Magnaflux Barrel Action			
	Magnaflux Bolt			
615	Rollmark Caliber			
617	Drill & Tap Sight Holes			
618	Polish Barrel			
620	Apply Coatings (Barrel Action)			
	Apply Coatings (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		8/29/88	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		8/29/88	RW
	C) Inspect Ejector Hole for Chamfer		8/29/88	RW

OVER

OP.#		READINGS	DATE	INITIAL
625 cont.	D) Oil Firing Pin Ass'y		8/29/88	RW
	E) Adjust Trigger Pull to Min. Setting and Stake		29aug88	J.U. + R.S.
	F) Safety on Force	7 6.5 7	29aug88	J.U. + R.S.
	G) Safety off Force	4 4 4	29aug88	J.U. + R.S.
	H) Trigger Pull Test & Retainabilty		29aug88	J.U. + R.S.
	I) Firing Pin Indent	.022 .022 .0215	29aug88	J.U. + R.S.
	J) Assemble Stock		9/26/88	RW
	K) Assemble Swivel Studs		10-10-88	J.S.
	L) Attach Front & Rear Sight Assemblies		9/26/88	RW
	M) Iron Sight Alignment		9/26/88	RW
	N) Detach Front & Rear Sights & place in numbered container		9/26/88	RW
	O) Attach Scope to Rifle		10/3/88	RW
	P) Detach & Attach Scope 20 times		10/4/88	J.S.
640	Gallery Target & Test	57 R 98 L	10-7-88	AC
	A) Optical Clarity of Scope	OK	10-7-88	AC
645	Inspect for Live Ammo	none	10-788	AC
655	Final Inspection			
	A) Headspace		10-10-88	J.S.
	B) Trigger Pull		10-10-88	J.S.
	C) Function		10-10-88	J.S.
660	Pack			

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6225463DATE 29 Aug 88TESTER J.D. + D.S.

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.61	2.46	2.85	2.71	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.41	2.51	2.81	2.64	
PULL #3	2.59	2.51	2.81	2.64	
PULL #4	2.43	2.48	2.85	2.66	
PULL #5	2.56	2.46	2.88	2.69	
TOTAL	12.60	12.42	14.20	13.34	
AVG.	2.52	2.484	2.84	2.668	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.02	3.22		
PULL #2	3.01	3.20		
PULL #3	2.94	3.19		
PULL #4	3.05	3.24		
PULL #5	3.07	3.19		
TOTAL	15.09	16.04		
AVG.	3.018	3.208		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.21	4.23		4.01
PULL #2	4.21	4.26		4.02
PULL #3	4.19	4.29		4.02
PULL #4	4.18	4.33		3.95
PULL #5	4.25	4.36		3.95
TOTAL	21.04	21.47		19.95
AVG.	4.208	4.294		3.99

7 Oct 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C8225463

CENTERFIRE PATTERNS

1

POA

1 in circle

2 in circle

3 in circle

OF SHOTS- 10

IN CIR

1 in = 1

2 in = 4

3 in = 6

HS= 3.645

VS= 3.162

GS= 3.701

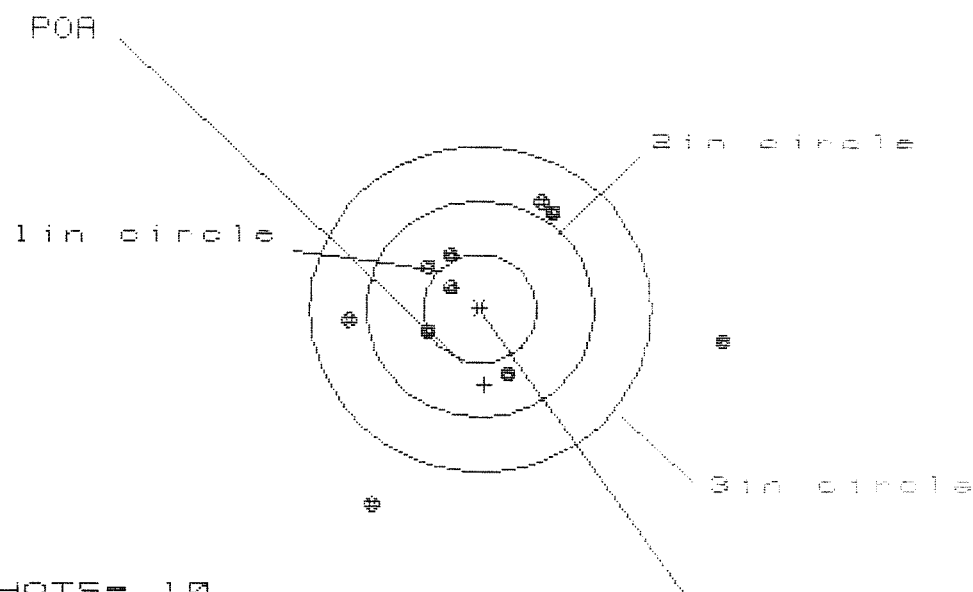
CENTROID #

PATTERN #	:	1	2	3
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.784	1.578	1.622
MINIMUM X	:	-1.861	-.994	-.951
MAXIMUM Y	:	1.840	1.786	1.133
MINIMUM Y	:	-1.322	-1.376	-1.152
CENTROID X	:	-.079	.127	.083
CENTROID Y	:	-.768	-.714	-.938
POA TO CENTROID in.	:	.773	.725	.941
MIN RADIUS	:	.353	.565	.490
MEAN RADIUS	:	1.253	1.190	1.100
MAX RADIUS	:	1.923	1.820	1.653
HORIZONTAL SPREAD	:	3.645	2.572	2.572
VERTICAL SPREAD	:	3.162	3.162	2.286
EXTREME SPREAD	:	3.701	3.275	2.801
NUMBER IN ONE INCH CIRCLE	=	1		
NUMBER IN TWO INCH CIRCLE	=	4		
NUMBER IN THREE INCH CIRCLE	=	6		

7 Oct 1988

FILE:/PATTERNING/CENTERFIRE_PATT/082254B3

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 5

3 in = 8

HS= 3.297

VS= 2.851

GS= 3.399

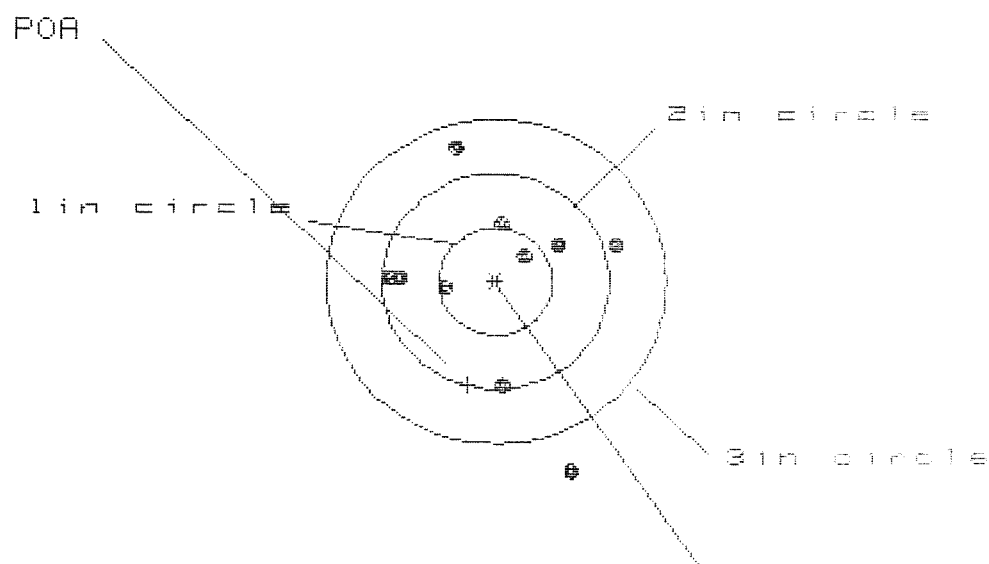
CENTROID *

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	2.111	.871	.781
MINIMUM X	:	-1.185	-.951	-1.041
MAXIMUM Y	:	1.040	1.001	.770
MINIMUM Y	:	-1.811	-1.850	-.838
CENTROID X	:	-.042	-.276	-.186
CENTROID Y	:	.702	.741	.972
POA TO CENTROID in.	:	.703	.790	.990
MIN RADIUS	:	.302	.152	.119
MEAN RADIUS	:	1.019	.835	.662
MAX RADIUS	:	2.140	1.985	1.098
HORIZONTAL SPREAD	:	3.297	1.822	1.822
VERTICAL SPREAD	:	2.851	2.851	1.608
EXTREME SPREAD	:	3.399	3.216	2.052
NUMBER IN ONE INCH CIRCLE =	:		2	

7 Oct 1988

FILE:/PATTERNING/CENTERFIRE_PATT/062254B3

CENTERFIRE PATTERNS # 3



OF SHOTS= 10

IN CIR

1 in = 2

2 in = 7

3 in = 9

HS= 2.057

VS= 3.064

GS= 3.242

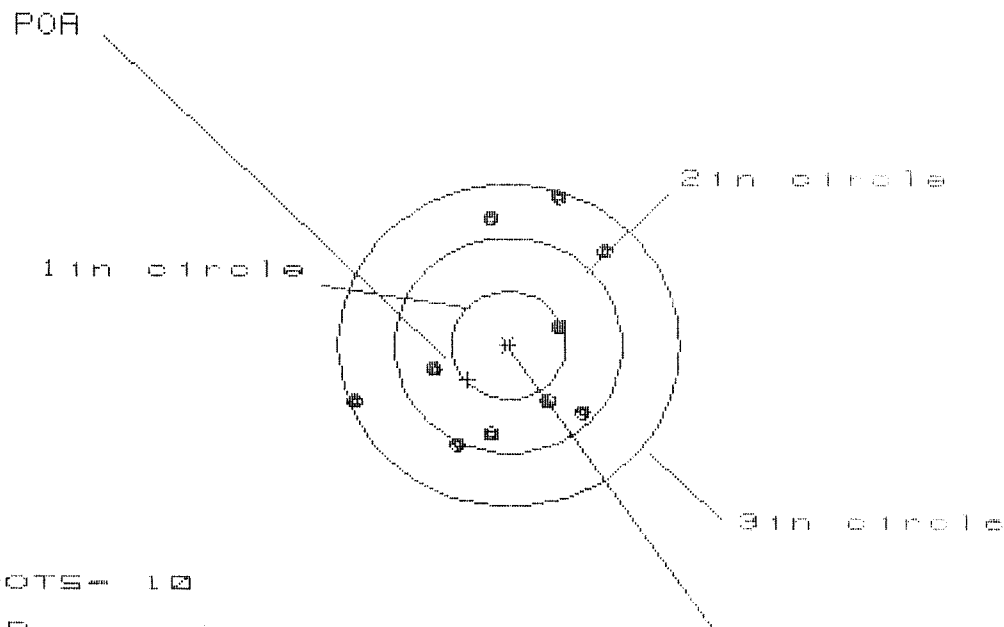
CENTROID *

PATTERN #	3		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.067	1.140	1.100
MINIMUM X	-.990	-.917	-.957
MAXIMUM Y	1.265	1.065	.503
MINIMUM Y	-1.799	-1.156	-1.023
CENTROID X	.247	.174	.214
CENTROID Y	.957	1.157	1.024
POA TO CENTROID in.	.989	1.170	1.046
MIN RADIUS	.365	.373	.362
MEAN RADIUS	.918	.775	.732
MAX RADIUS	1.918	1.161	1.134
HORIZONTAL SPREAD	2.057	2.057	2.057

7 Oct 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225463

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 10

HS= 2.197

VS= 2.367

GS= 2.614

CENTROID #

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.846	.894	.731
MINIMUM X	:	-1.351	-1.303	-.762
MAXIMUM Y	:	1.420	1.373	1.331
MINIMUM Y	:	-.947	-.789	-.831
CENTROID X	:	.357	.309	.472
CENTROID Y	:	.321	.163	.295
POA TO CENTROID in.	:	.480	.350	.515
MIN RADIUS	:	.454	.523	.413
MEAN RADIUS	:	.990	.910	.839
MAX RADIUS	:	1.484	1.375	1.351
HORIZONTAL SPREAD	:	2.197	2.197	1.493
VERTICAL SPREAD	:	2.367	2.162	2.162
EXTREME SPREAD	:	2.614	2.567	2.204
NUMBER IN ONE INCH CIRCLE	=	1		
NUMBER IN TWO INCH CIRCLE	=	5		
NUMBER IN THREE INCH CIRCLE	=	10		

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6225463

CENTROIDAL DISTANCES

0 TO	1	.772052
1 TO	2	1.47047
1 TO	3	1.75553
1 TO	4	1.96664
1 TO	5	1.17304

4
2
+ 5 <----POA
1

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0538
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .4812
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .484198
THE AMR FOR THIS RIFLE IS: 1.087