

BARBER - M24 0105235

UPC



0 47700 25716 7

C6702832

*INCLUDES 1 IN CHAMBER

ORDER NO.	5716
BARREL LENGTH	
CAPACITY*	

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: RE00135886

Serial: C6702832 Model M24 SWS Center Fire
Caliber: 7.62 NATO Produced: 10/19/1992

Repairman:

Verify Repair

Status:

Closed 10/26/2007 8:26:35 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	2
A017	Scope Base	1
A057	Fit and Rear Sgt Base	1

Repair Search

Refresh

Close

nagletj

10/29/2007

10:57 AM

CAPS

NUM

INS

SCRL



10:57 AM

Serial Number: C6702832
Model: M24 SWS
RE00135886

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6702832.__0
FILE DATE AND TIME: 12/13/2007 13:14

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.069
The Average Y Centroid of the Five Target Set:	0.083
The Average Point of Impact of the Five Target Set:	0.108
The Average Mean Radius of the Five Target Set:	0.791
The Distance from POA to Centroid Target #1:	0.058
The Distance from Centroid Target #2 to Centroid Target #1:	0.057
The Distance from Centroid Target #3 to Centroid Target #1:	0.078
The Distance from Centroid Target #4 to Centroid Target #1:	0.072
The Distance from Centroid Target #5 to Centroid Target #1:	0.181

BARBER - M24 0105239

SERIAL NUMBER: C6702832. __0

TARGET NUMBER: 1

FILE DATE: 12/13/2007

FILE TIME: 13:14

POINT#	X	Y
1:	-0.097	0.895
2:	-0.342	1.023
3:	-0.260	0.383
4:	0.263	0.292
5:	0.137	-0.077
6:	-0.101	-0.042
7:	-0.605	-0.123
8:	0.488	-1.224
9:	0.088	-0.668
10:	0.229	0.090

X CENTROID: -0.020

Y CENTROID: 0.055

POA TO CENTROID: 0.058

HORZ SPREAD: 1.093

VERT SPREAD: 2.247

GROUP SPREAD: 2.395

MIN RADIUS: 0.126

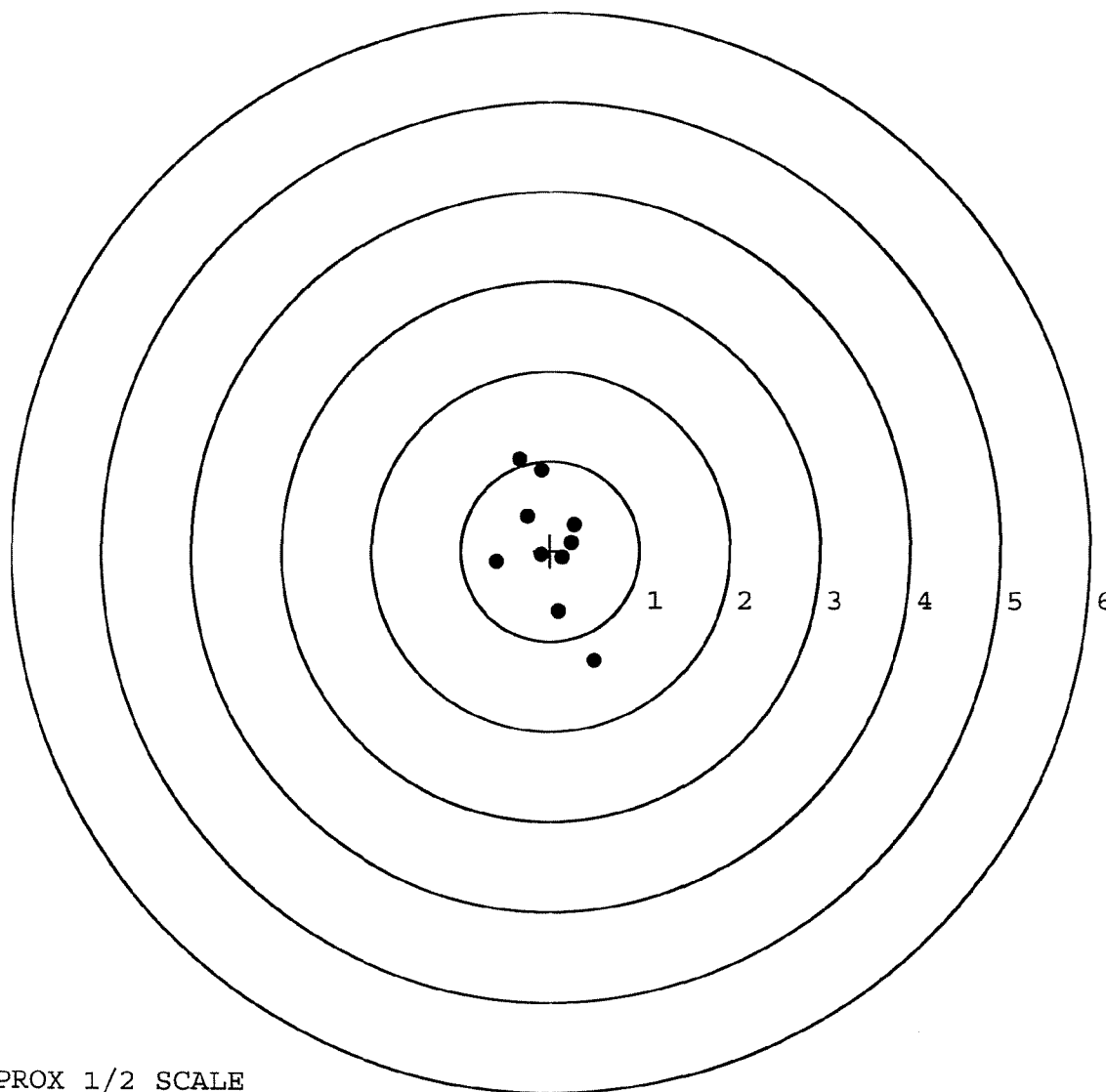
MAX RADIUS: 1.376

MEAN RADIUS: 0.594

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

BARBER - M24 0105240

SERIAL NUMBER: C6702832. __0

TARGET NUMBER: 2

FILE DATE: 12/13/2007

FILE TIME: 13:14

POINT#	X	Y
1:	-0.047	1.170
2:	-0.108	0.723
3:	-0.397	0.481
4:	-1.308	-0.013
5:	0.070	-1.283
6:	0.867	-0.632
7:	0.517	0.205
8:	0.090	-0.468
9:	-0.038	-0.159
10:	-0.367	0.749

X CENTROID: -0.072

Y CENTROID: 0.077

POA TO CENTROID: 0.106

HORZ SPREAD: 2.175

VERT SPREAD: 2.453

GROUP SPREAD: 2.456

MIN RADIUS: 0.239

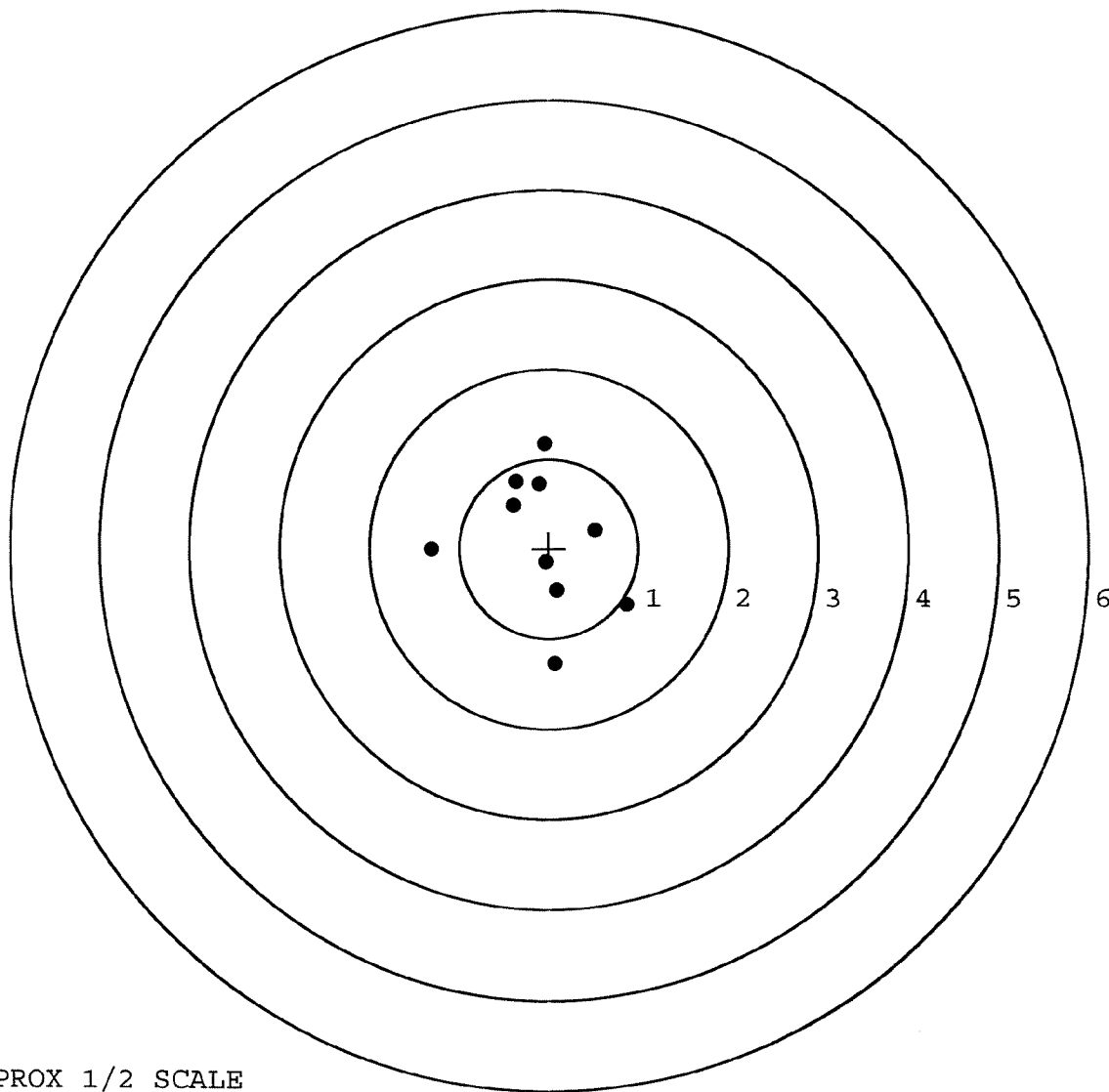
MAX RADIUS: 1.368

MEAN RADIUS: 0.819

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

BARBER - M24 0105241

SERIAL NUMBER: C6702832. __0

TARGET NUMBER: 3

FILE DATE: 12/13/2007

FILE TIME: 13:14

POINT#	X	Y
1:	-0.484	1.241
2:	-0.573	0.636
3:	-0.543	0.405
4:	-1.019	-0.586
5:	-0.406	-0.275
6:	-0.062	0.010
7:	0.255	-0.902
8:	0.794	-0.320
9:	0.459	-0.063
10:	0.623	0.209

X CENTROID: -0.096

Y CENTROID: 0.036

POA TO CENTROID: 0.102

HORZ SPREAD: 1.813

VERT SPREAD: 2.143

GROUP SPREAD: 2.267

MIN RADIUS: 0.042

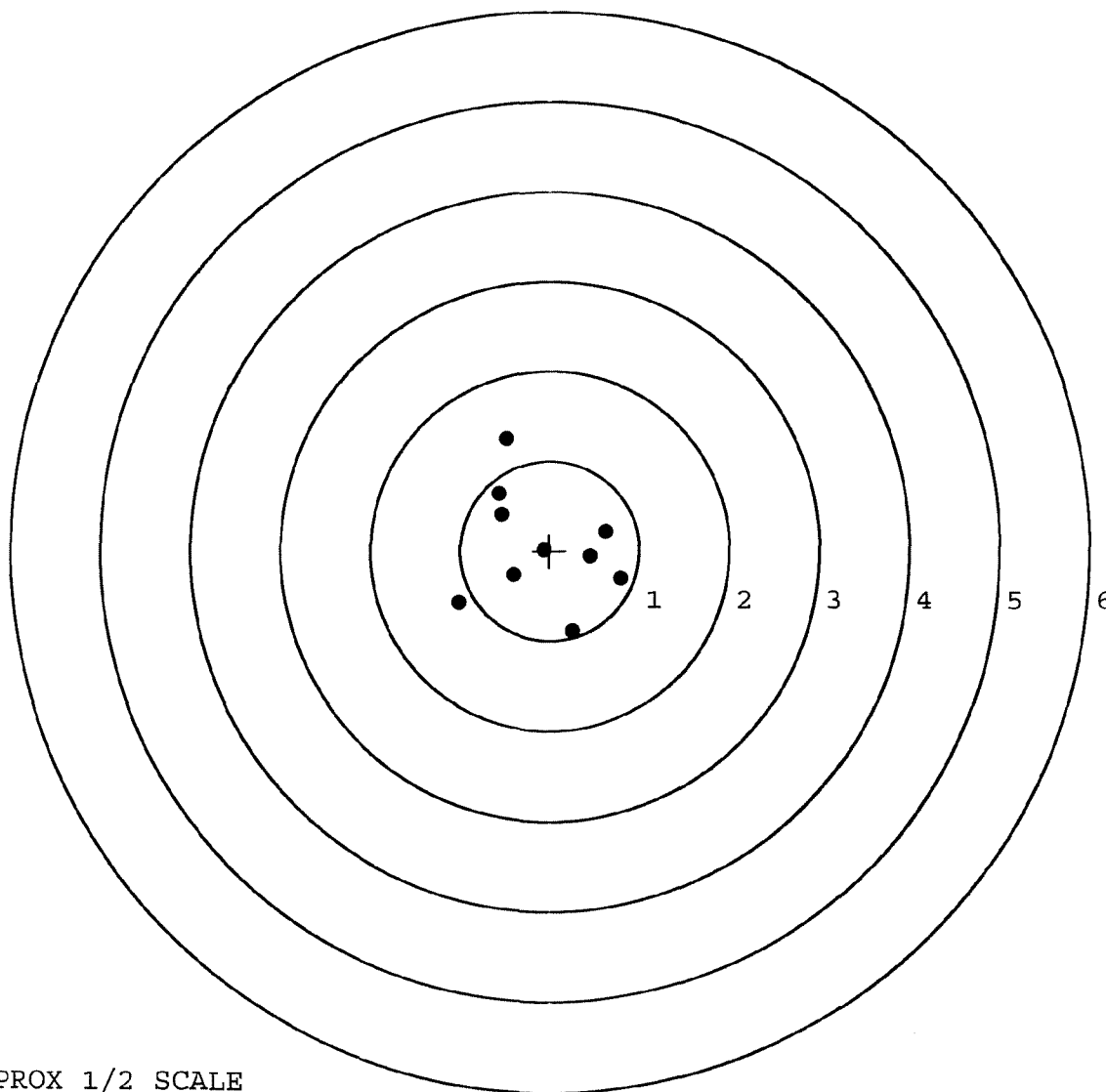
MAX RADIUS: 1.267

MEAN RADIUS: 0.747

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 7

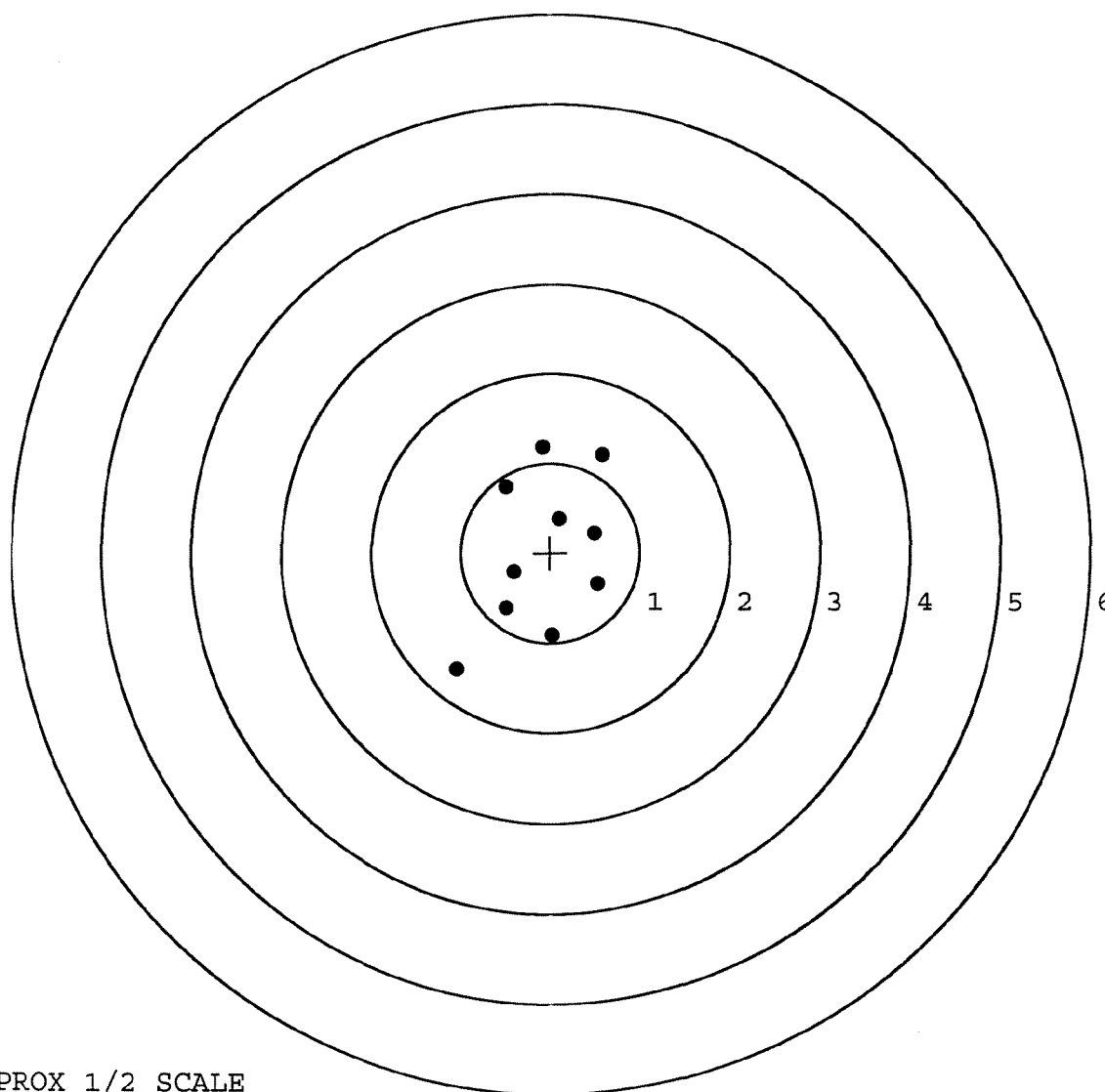
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

BARBER - M24 0105242

SERIAL NUMBER: C6702832.____0	POINT#	X	Y
TARGET NUMBER: 4	1:	0.581	1.090
FILE DATE: 12/13/2007	2:	-0.090	1.180
FILE TIME: 13:14	3:	-0.499	0.736
	4:	0.097	0.375
X CENTROID: -0.083	5:	0.488	0.215
Y CENTROID: 0.019	6:	0.527	-0.352
POA TO CENTROID: 0.085	7:	0.024	-0.926
HORZ SPREAD: 1.629	8:	-0.412	-0.219
VERT SPREAD: 2.475	9:	-0.494	-0.614
GROUP SPREAD: 2.888	10:	-1.048	-1.295
MIN RADIUS: 0.399			
MAX RADIUS: 1.631			
MEAN RADIUS: 0.871			
# IN 1 IN DIAMETER: 2			
# IN 2 IN DIAMETER: 7			
# in 3 IN DIAMETER: 9			



TARGET APPROX 1/2 SCALE

BARBER - M24 0105243

SERIAL NUMBER: C6702832. __0

TARGET NUMBER: 5

FILE DATE: 12/13/2007

FILE TIME: 13:14

POINT#	X	Y
1:	-1.255	1.908
2:	0.466	1.466
3:	0.354	1.066
4:	-0.885	-0.044
5:	-0.040	0.154
6:	-0.472	-0.695
7:	0.491	-0.315
8:	0.375	-0.167
9:	0.106	-0.410
10:	0.099	-0.695

X CENTROID: -0.076

Y CENTROID: 0.227

POA TO CENTROID: 0.239

HORZ SPREAD: 1.746

VERT SPREAD: 2.603

GROUP SPREAD: 2.934

MIN RADIUS: 0.081

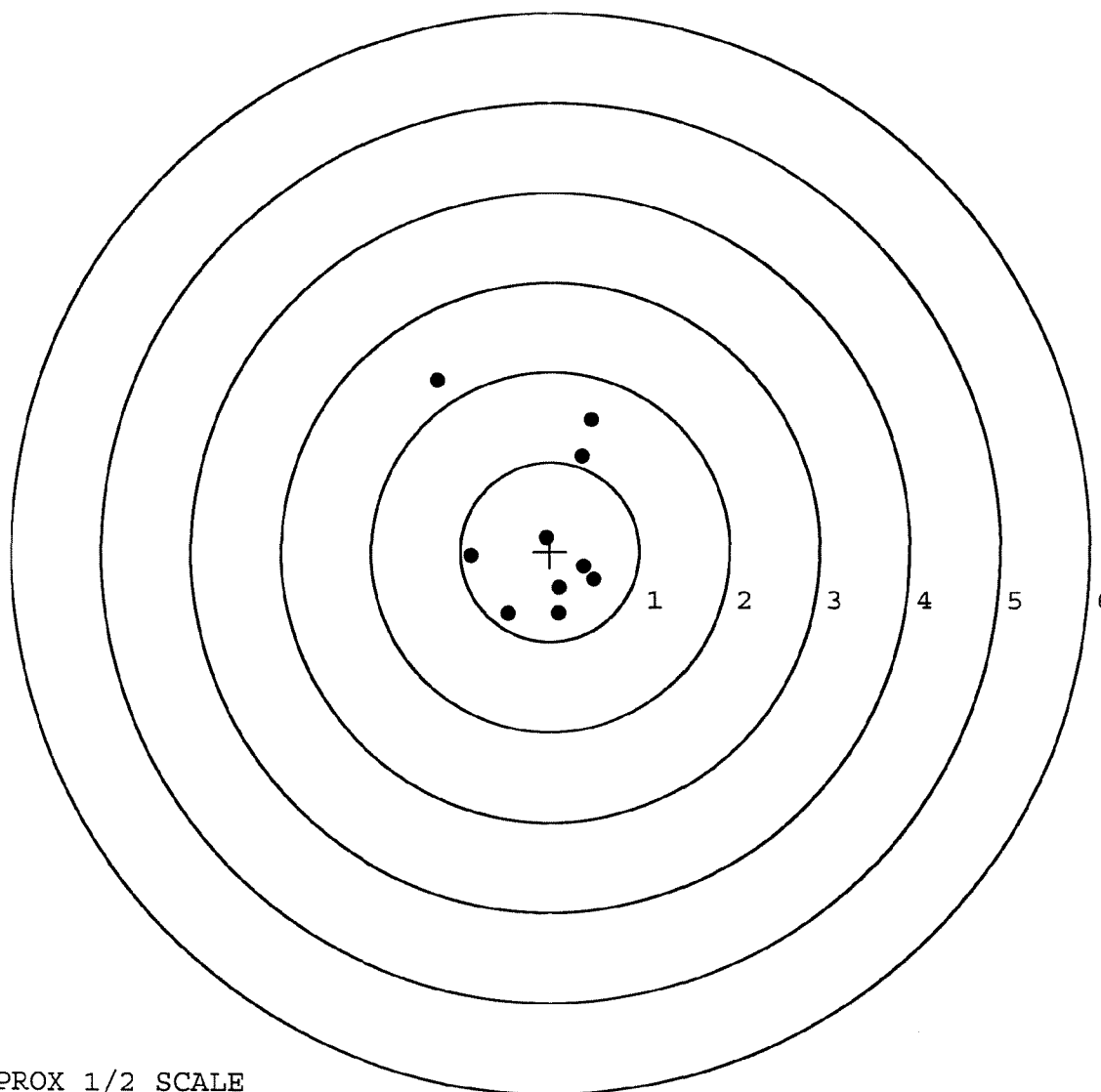
MAX RADIUS: 2.053

MEAN RADIUS: 0.927

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

R & E NUMBER		135886	
SERIAL NUMBER		C6702832	
LOG-IN DATE		10-26-07	
OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	11-13-07	S.P.H.
505	RE-BARREL	11-27-07	S.P.H.
560	ASSEMBLE	11-27-07	S.P.H.
600	PROOF	11-27-07	TRW
605	CHECK HEADSPACE	11-27-07	TRW
610	DIS-ASSEMBLE GUN		
612	MAGNAFLUX	12-04-07	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	CY
625	FINAL ASSEMBLY	12-12-07	RTZ
640	FUNCTION TEST AND	PASS FAIL	12-13-07 TRW
650	TARGET	PASS FAIL	12-13-07 TRW
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION		12-13-07 FM
	A) HEADSPACE	PASS FAIL	1-2-08 RTZ
	B) TRIGGER PULL	2.49 2.51 2.48 2.48 2.48	12-14-07 DA
680	F) SAFETY ON FORCE	6.0 5.5 5.5	12-14-07 DA
	G) SAFETY OFF FORCE	2.5 2.5 3.0	12-14-07 DA
	I) FIRING PIN INDENT	.024 .023 .023	12-14-07 DA
690	PACK		12-13-08 FM

GFM

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C 670 2832

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		5/1/92	RW
600	Proof		5/1/92	RW
607	Check Headspace		5/1/92	RW
610	Dis-assemble Gun		5/1/92	RW
612	Magnaflux Barrel Action	MAY	5 1992	Kcd
	Magnaflux Bolt	MAY	5 1992	Kcd
615	Rollmark Caliber	MAY	5 1992	CS
617	Drill and Tap Sight Holes	MAY	5 1992	LSB
618	Polish Barrel	MAY	5 1992	W/B
620	Apply Coatings (Barrel Action)		6-10-92	W/B
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		6/13/92	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		6/13/92	RW
	C) Inspect Ejector Hole for Chamfer		6/13/92	RW
	D) Oil Firing Pin Ass'y		6/13/92	RW
	E) Adjust Trigger Pull to Min Setting and Stake		6/17/92	RW

Op. #	BARBER - M24 0105246 OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	7	5	5			6/17/92	RW
	G) Safety Off Force	3	2	2			6/17/92	RW
	H) Trigger Pull Test & Retainability						6/17/92	RW
	I) Firing Pin Indent	.022	.0215	.022			6/17/92	RW
	J) Assemble Stock						6/17/92	RW
	K) Assemble Swivel Studs							
	L) Attach Front and Rear Sight Assemblies							
	M) Iron Sight Alignment							
	N) Detach Front & Rear Sights & place in numbered container							
	O) Attach Scope to Rifle						6/17/92	RW
	P) Detach & Attach Scope 20 Times						6/17/92	RW
640	Gallery Target & Test						6-23-92	DH
	A) Time						6-23-92	DH
	B) Malfunctions						6-23-92	DH
	C) Pierced Primers						6-23-92	DH
	D) Optical Clarity of Scope						6-23-92	DH
645	Inspect for Live Ammo						6-24-92	DH
655	Final Inspection							
	A) Headspace						6/23/92	RW
	B) Trigger Pull	2.52	2.40	2.34	2.41	2.31	6/23/92	RW
	C) Function						6/23/92	RW
660	Pack							

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO. C6702832

DATE 6/17/92

TESTER FW

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.36	2.42	2.59	2.52	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.38	2.43	2.36	2.40	
PULL #3	2.50	2.36	2.25	2.34	
PULL #4	2.52	2.40	2.34	2.41	
PULL #5	2.59	2.56	2.29	2.31	
TOTAL	12.35	12.17	11.83	11.98	
AVG.	2.47	2.43	2.37	2.40	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.14	3.27		
PULL #2	3.07	3.16		
PULL #3	3.18	3.22		
PULL #4	3.13	3.10		
PULL #5	3.22	3.09		
TOTAL	15.74	15.84		
AVG.	3.15	3.17		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.06	4.02		4.05
PULL #2	4.03	4.17		4.25
PULL #3	4.07	4.11		4.00
PULL #4	4.17	4.10		4.00
PULL #5	4.08	4.17		4.16
TOTAL	20.41	20.57		20.46
AVG.	4.08	4.11		4.09

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6702832
25 Jun 1992

CENTROIDAL DISTANCES

0	TO	1	.185011
1	TO	2	.43558
1	TO	3	.172447
1	TO	4	.220057
1	TO	5	.0792086

$\frac{1}{16}$ $\frac{1}{4}$ <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .23.4
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .9543
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .243507

THE AMR FOR THIS RIFLE IS: .9552

23 Jun 1992

FILE:/PATTERNING/CENTERFIRE_PATT/C6702832

CENTERFIRE PATTERNS # 1

POA

1 in circle

2 in circle

3 in circle

CENTROID #

OF SHOTS - 10

IN CIR

1 in = 3

2 in = 3

3 in = 7

HS = 3.217

VS = 2.786

GS = 3.233

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.616	1.439	1.223
MINIMUM X	-.601	-1.160	-.981
MAXIMUM Y	.504	1.532	1.527
MINIMUM Y	-.282	-1.254	-1.259
CENTROID X	.170	.347	.168
CENTROID Y	.073	.045	.050
POA TO CENTROID in.	.185	.350	.175
MIN RADIUS	.280	.240	.299
MEAN RADIUS	.123	1.078	1.008
MAX RADIUS	.620	1.554	1.528
HORIZONTAL SPREAD	3.217	2.599	2.204
VERTICAL SPREAD	2.786	2.786	2.786
EXTREME SPREAD	3.233	2.893	2.893
NUMBER IN ONE INCH CIRCLE	= 3		
NUMBER IN TWO INCH CIRCLE	= 3		
NUMBER IN THREE INCH CIRCLE	= 7		

23 Jun 1992

FILE:/PATTERNING/CENTERFIRE_PATT/C6702832

CENTERFIRE PATTERNS # 2

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS - 10

IN CIR

1in = 1

2in = 6

3in = 10

HS= 1.773

VS= 2.273

GS= 2.283

PATTERN #	2	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.726	.760	.832
MINIMUM X	-.047	-1.013	-.941
MAXIMUM Y	.274	1.153	.575
MINIMUM Y	.999	-.857	-.713
CENTROID X	.479	.445	.373
CENTROID Y	.380	.238	.094
POA TO CENTROID in.	.611	.505	.685
MIN RADIUS	.291	.436	.409
MEAN RADIUS	.863	.800	.725
MAX RADIUS	1.311	1.289	1.010
HORIZONTAL SPREAD	1.773	1.773	1.773
VERTICAL SPREAD	2.273	2.010	1.288
EXTREME SPREAD	2.283	2.010	1.900
NUMBER IN ONE INCH CIRCLE	= 1		
NUMBER IN TWO INCH CIRCLE	= 6		
NUMBER IN THREE INCH CIRCLE	= 10		

23 Jun 1992

FILE:/PATTERNING/CENTERFIRE_PATT/C6702832

CENTERFIRE PATTERNS # 3

POA

1 in circle

2 in circle

3 in circle

CENTROID

OF SHOTS - 10

IN CIR

1 in = 1

2 in = 4

3 in = 7

HS = 2.554

VS = 2.982

GS = 3.658

PATTERN #	3	3	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.378	1.270	1.401
MINIMUM X	-1.176	-1.284	-1.153
MAXIMUM Y	1.415	1.241	1.087
MINIMUM Y	-1.567	-1.241	-1.086
CENTROID X	.127	.235	.104
CENTROID Y	-.094	.080	-.075
POA TO CENTROID in.	.158	.248	.128
MIN RADIUS	.395	.190	.392
MEAN RADIUS	1.190	1.073	1.028
MAX RADIUS	1.840	1.785	1.584
HORIZONTAL SPREAD	2.554	2.554	2.554
VERTICAL SPREAD	2.982	2.482	2.173
EXTREME SPREAD	3.658	3.405	2.687
NUMBER IN ONE INCH CIRCLE	= 1		
NUMBER IN TWO INCH CIRCLE	= 4		
NUMBER IN THREE INCH CIRCLE	= 7		

23 Jun 1992

FILE:/PATTERNING/CENTERFIRE_PATT/CS702832

CENTERFIRE PATTERNS # 4

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS - 10

IN CIR

1in = 3

2in = 7

3in = 10

HS = 1.849

VS = 2.360

GS = 2.366

PATTERN #	4	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.056	1.044	.826
MINIMUM X	-.793	-.805	-.674
MAXIMUM Y	1.346	.654	.660
MINIMUM Y	-.014	-.865	-.859
CENTROID X	.298	.310	.179
CENTROID Y	.106	-.255	-.261
POA TO CENTROID in.	.316	.401	.317
MIN RADIUS	.118	.224	.259
MEAN RADIUS	.741	.655	.593
MAX RADIUS	1.350	1.045	1.057
HORIZONTAL SPREAD	1.849	1.849	1.500
VERTICAL SPREAD	2.360	1.519	1.519
EXTREME SPREAD	2.366	1.925	1.808
NUMBER IN ONE INCH CIRCLE	= 3		
NUMBER IN TWO INCH CIRCLE	= 7		
NUMBER IN THREE INCH CIRCLE	= 10		

23 Jun 1992

FILE:/PATTERNING/CENTERFIRE_PATT/06702832

CENTERFIRE PATTERNS # 5

POA

1 in circle

2 in circle

3 in circle

CENTROID #

OF SHOTS - 10

IN CIR

1 in - 3

2 in - 6

3 in - 9

HS= 2.033

VS= 2.151

GS= 2.715

PATTERN #	10	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.964	.845	.800
MINIMUM X	-.069	-.474	-.511
MAXIMUM Y	.263	1.400	1.137
MINIMUM Y	.888	-.751	-.576
CENTROID X	.113	.232	.269
CENTROID Y	.018	-.119	-.294
POA TO CENTROID in.	.114	.261	.399
MIN RADIUS	.116	.074	.159
MEAN RADIUS	.854	.736	.621
MAX RADIUS	.635	1.431	1.395
HORIZONTAL SPREAD	2.033	1.319	1.319
VERTICAL SPREAD	2.151	2.151	1.713
EXTREME SPREAD	2.715	2.200	2.125
NUMBER IN ONE INCH CIRCLE	= 3		
NUMBER IN TWO INCH CIRCLE	= 6		
NUMBER IN THREE INCH CIRCLE	= 9		