

C6349068

MODEL 700™ M24

Model **SWS**™

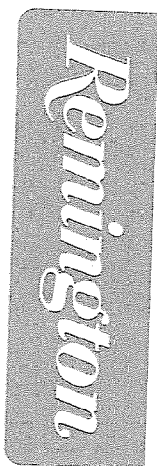
Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.



Repair Inquiry

Repair Number: RE00146043

Serial: C6349068 Model M24 SWS Center Fire
Caliber: 7.62 NATO

Repairman:

Status: Closed 6/3/2008 9:51:07 AM

Verify Repair

Address Information

Customer:

Received From

Return To:

Received From

Name: INSTALLATION SERIALIZATION OFFICER

INSTALLATION SERIALIZATION OFFICER

Address 1: BLDG 7920

BLDG 7920

Address 2:

PO Box:

PO Box:

City: FT. RILEY

FT. RILEY

State: KS

Zip Code: 66442

Country: US

State: KS

Zip Code: 66442

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
A006	Sling Strap	1
A007	With Stud	3
A010	Hard Case	1
A017	Scope Base	1
A026	Scope	1
A045	Bi Pod	1
A057	Fit and Rear Sgt Base	1

Repair Search

Refresh

Close

negletj

6/3/2008

12:57 PM

CSR

NUM

MIS

15:08



Number: C6349068

Model: M24 SWS



RE00146043

INSPECTION CHECKLIST - REPAIRS

CONTRACT #: W52H09-07-C-0207

ISSUED 10/1/2007

R & E NUMBER <u>146043</u>			
SERIAL NUMBER <u>06349068</u>			
LOG-IN DATE <u>6-3-08</u>			
OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	5-14-09	RT
505	RE-BARREL	5-26-09	RT
420	ASSEMBLE	5-26-09	LTZ
440	PROOF	5-26-09	SPD
460	CHECK HEADSPACE	5-26-09	SPD
470	DIS-ASSEMBLE GUN	5-26-09	SPD
480	MAGNAFLUX	5-30-09	①
510	DRILL AND TAP	5-27-09	SP
500	ROLLMARK CALIBER	6-1-09	RT
520	GOFF BLAST BBL / REC	6-1-09	DWD
530 & 540	APPLY COATINGS	6/3	C
560	FINAL ASSEMBLY	6-4-09	RT
640	FUNCTION TEST AND	PASS	FAIL
650	TARGET	PASS	FAIL
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION		
	A) HEADSPACE	(PASS)	FAIL
	B) TRIGGER PULL	225 227 228 222 226 6-5-09 RT	
680	F) SAFETY ON FORCE	50 50 40	6-5-09 SPD
	G) SAFETY OFF FORCE	50 50 50	6-5-09 SPD
	I) FIRING PIN INDENT	.002 .002 .002	6-5-09 SPD
690	PACK		6/8/09 FM

F006 REV 1/2009

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6349068.___0
FILE DATE AND TIME: 06/04/2009 13:58

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.061
The Average Y Centroid of the Five Target Set:	-0.151
The Average Point of Impact of the Five Target Set:	0.163
The Average Mean Radius of the Five Target Set:	0.644
The Distance from POA to Centroid Target #1:	0.414
The Distance from Centroid Target #2 to Centroid Target #1:	0.464
The Distance from Centroid Target #3 to Centroid Target #1:	0.255
The Distance from Centroid Target #4 to Centroid Target #1:	0.370
The Distance from Centroid Target #5 to Centroid Target #1:	0.328

SERIAL NUMBER: C6349068. 0

TARGET NUMBER: 1

FILE DATE: 06/04/2009

FILE TIME: 13:58

X CENTROID: -0.259

Y CENTROID: -0.323

POA TO CENTROID: 0.414

HORZ SPREAD: 1.673

VERT SPREAD: 2.431

GROUP SPREAD: 2.864

MIN RADIUS: 0.236

MAX RADIUS: 1.620

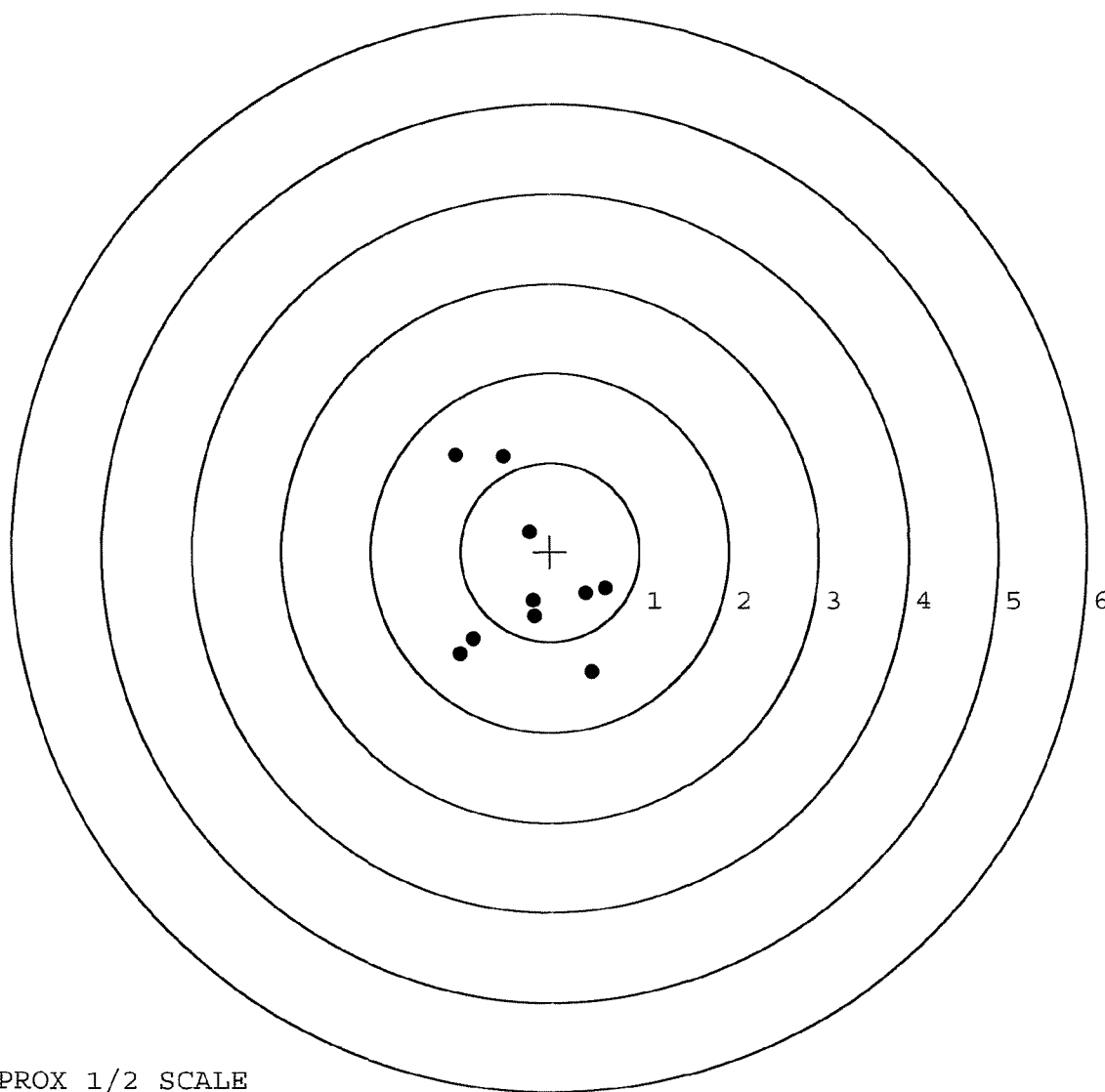
MEAN RADIUS: 0.902

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 9

POINT#	X	Y
1:	-1.055	1.087
2:	-0.522	1.075
3:	-0.229	0.221
4:	0.618	-0.419
5:	0.396	-0.468
6:	-0.199	-0.552
7:	-0.182	-0.722
8:	0.460	-1.344
9:	-1.010	-1.137
10:	-0.862	-0.973



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349068. 0

TARGET NUMBER: 2

FILE DATE: 06/04/2009

FILE TIME: 13:58

X CENTROID: 0.191

Y CENTROID: -0.210

POA TO CENTROID: 0.284

HORZ SPREAD: 1.452

VERT SPREAD: 1.207

GROUP SPREAD: 1.590

MIN RADIUS: 0.176

MAX RADIUS: 0.844

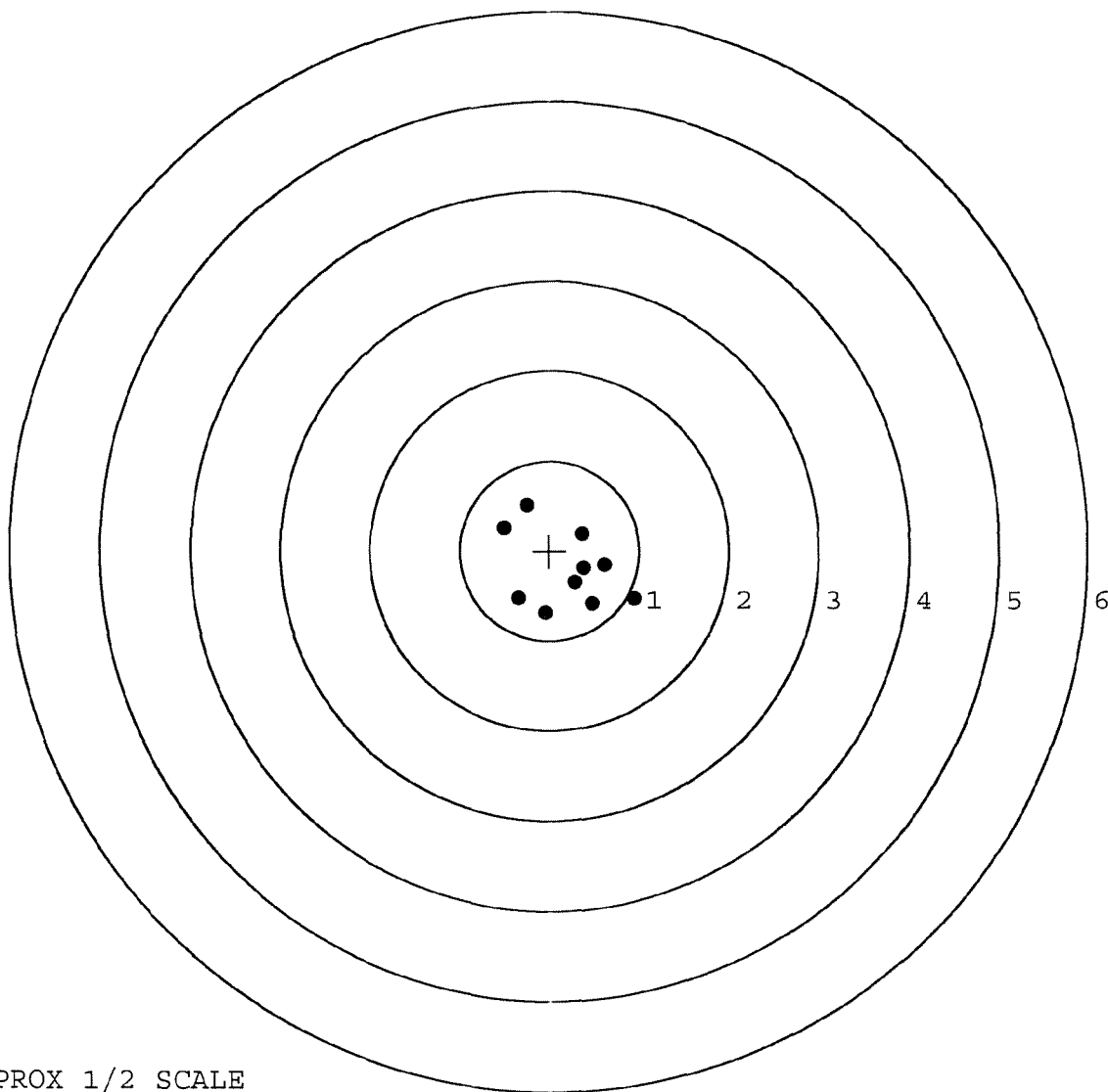
MEAN RADIUS: 0.540

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.254	0.508
2:	-0.509	0.261
3:	-0.347	-0.533
4:	-0.053	-0.699
5:	0.943	-0.538
6:	0.474	-0.590
7:	0.370	0.196
8:	0.616	-0.156
9:	0.285	-0.359
10:	0.384	-0.187



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349068. 0

TARGET NUMBER: 3

FILE DATE: 06/04/2009

FILE TIME: 13:58

X CENTROID: -0.054

Y CENTROID: -0.170

POA TO CENTROID: 0.178

HORZ SPREAD: 1.336

VERT SPREAD: 2.253

GROUP SPREAD: 2.289

MIN RADIUS: 0.429

MAX RADIUS: 1.211

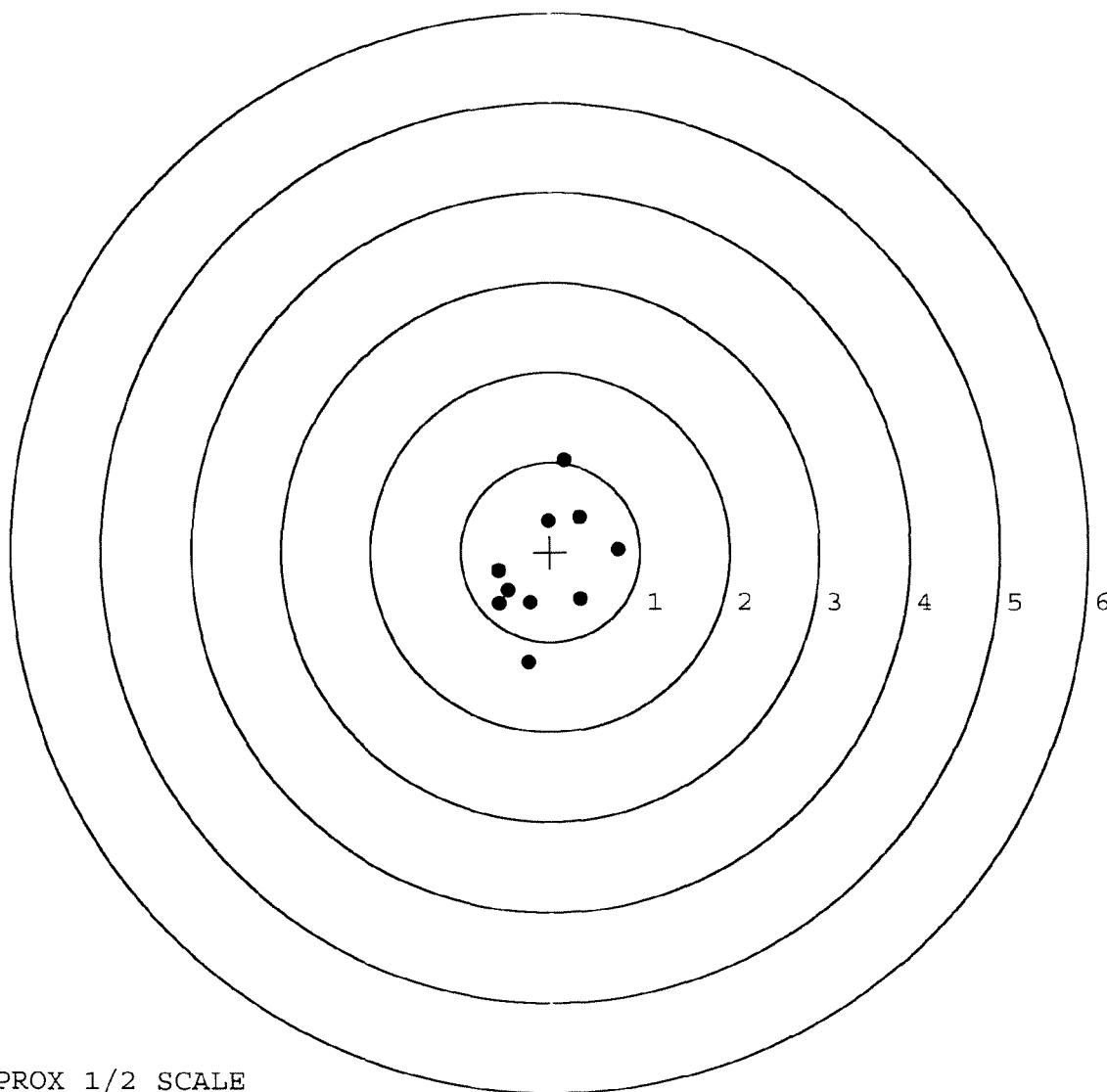
MEAN RADIUS: 0.696

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.160	1.022
2:	-0.027	0.353
3:	0.326	0.398
4:	0.758	0.034
5:	0.340	-0.514
6:	-0.242	-1.231
7:	-0.569	-0.571
8:	-0.231	-0.561
9:	-0.578	-0.205
10:	-0.478	-0.424



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349068. 0

TARGET NUMBER: 4

FILE DATE: 06/04/2009

FILE TIME: 13:58

POINT#	X	Y
1:	0.342	0.089
2:	0.166	0.150
3:	0.055	-0.126
4:	0.036	-0.340
5:	-0.175	-0.442
6:	-0.886	-0.349
7:	-0.745	0.055
8:	-0.246	-0.044
9:	-0.038	-0.121
10:	0.042	1.418

X CENTROID: -0.145

Y CENTROID: 0.029

POA TO CENTROID: 0.148

HORZ SPREAD: 1.228

VERT SPREAD: 1.860

GROUP SPREAD: 1.996

MIN RADIUS: 0.125

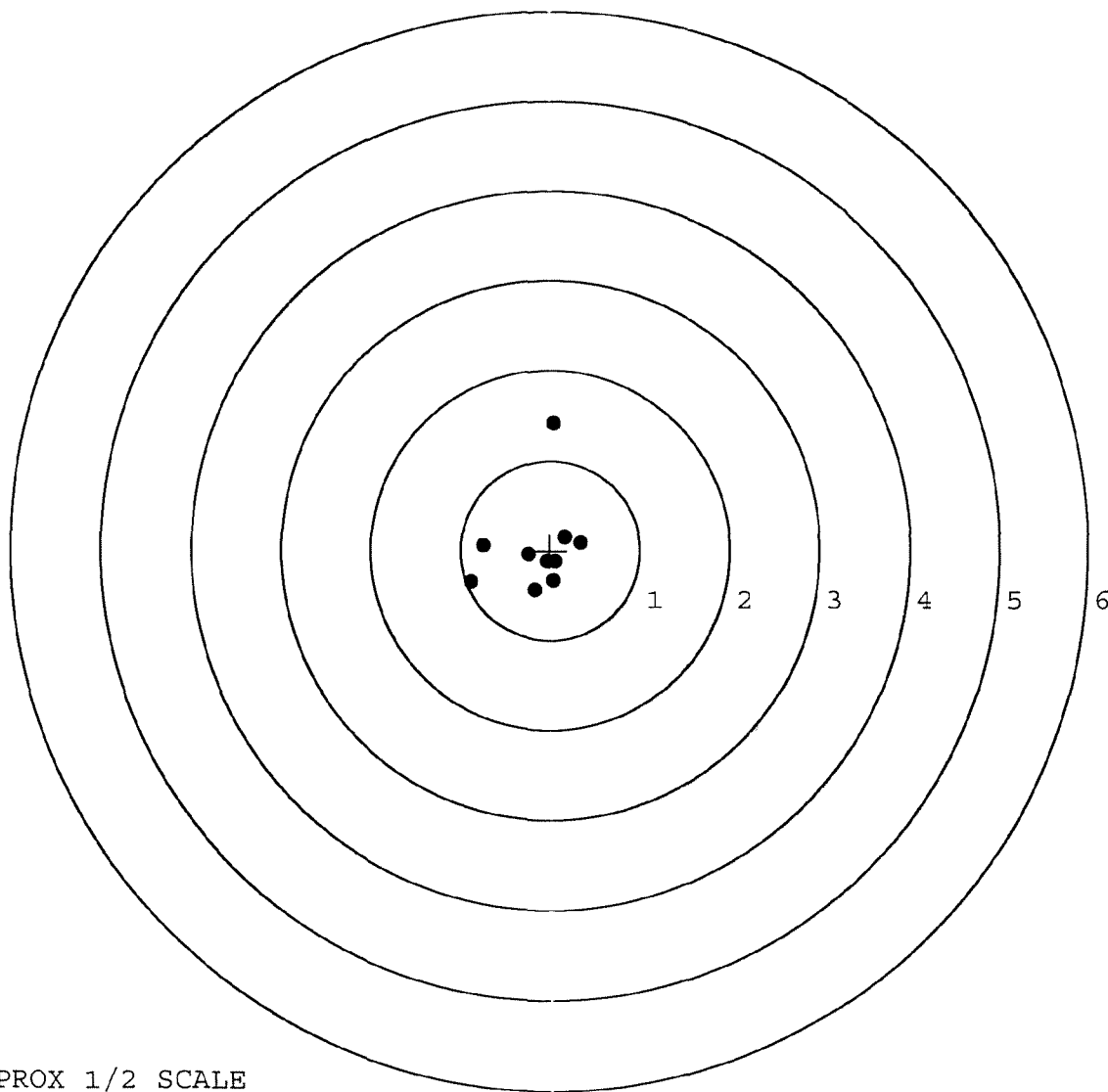
MAX RADIUS: 1.402

MEAN RADIUS: 0.510

IN 1 IN DIAMETER: 7

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349068. 0

TARGET NUMBER: 5

FILE DATE: 06/04/2009

FILE TIME: 13:58

X CENTROID: -0.038

Y CENTROID: -0.080

POA TO CENTROID: 0.089

HORZ SPREAD: 0.918

VERT SPREAD: 1.528

GROUP SPREAD: 1.708

MIN RADIUS: 0.316

MAX RADIUS: 1.014

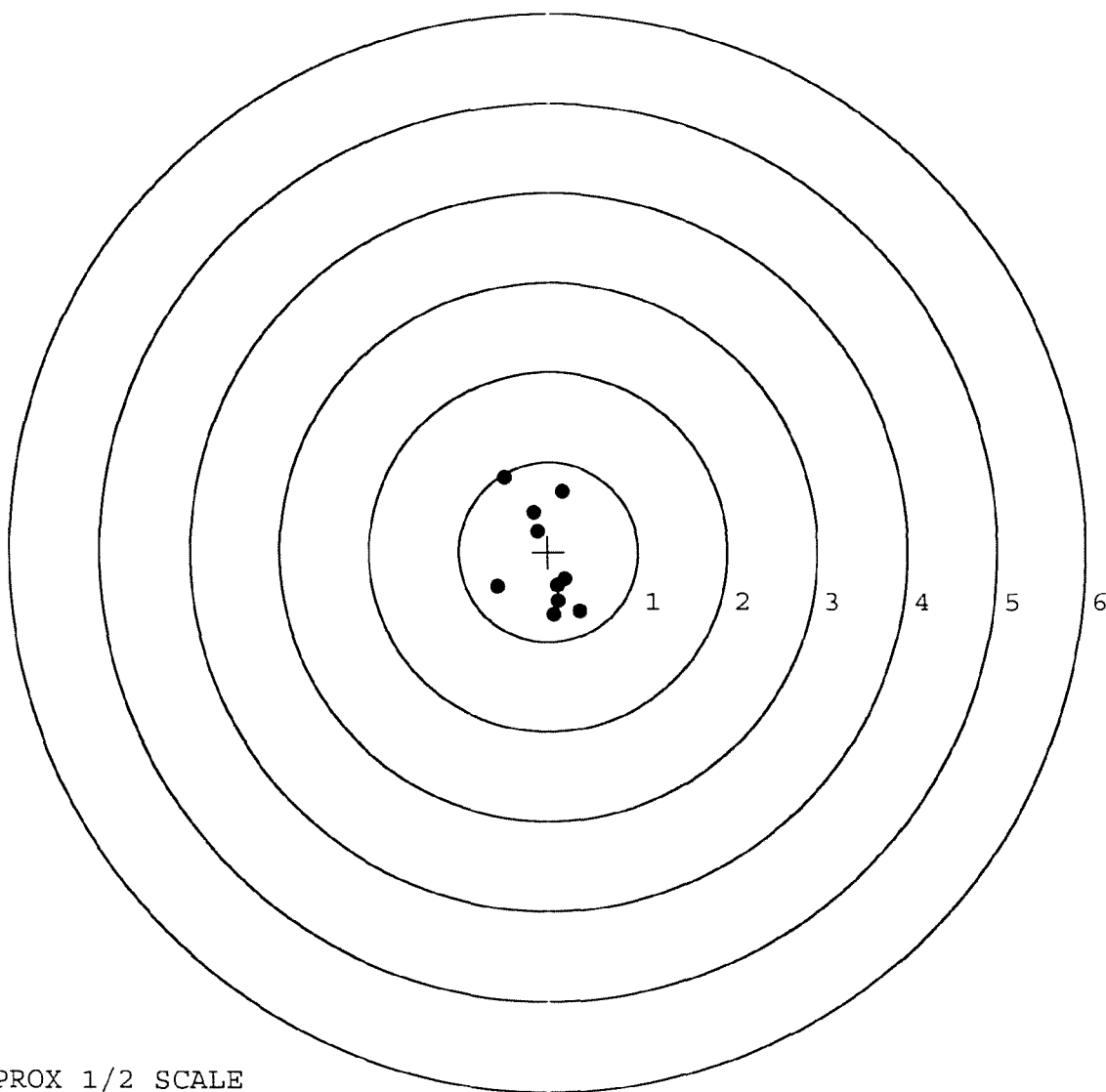
MEAN RADIUS: 0.572

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.492	0.827
2:	0.158	0.667
3:	-0.171	0.445
4:	-0.122	0.230
5:	-0.568	-0.381
6:	0.105	-0.378
7:	0.186	-0.303
8:	0.063	-0.701
9:	0.350	-0.659
10:	0.109	-0.549



TARGET APPROX 1/2 SCALE

Send TO

ANNISTON, AL

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: **RE00051779** Serial: **C6349068** Model: **700** Center Fire Caliber: **7.62 NATO M-24 (SWS)** Repairman:
 Verify Repair Status: **Closed 9/6/02 9:24:33 AM**

Address Information

Customer: **A CO 1 16TH INF BN** Received From: **A CO 1 16TH INF BN** Return To: **A CO 1 16TH INF BN**
 Address 1: **ATTN CW3 GUZMAN** Address 2: **BLDG 7920 APENNINES DR** PD Box:
 City: **FORT RILEY** State: **KS** Zip Code: **66442** Country: **US**

Contact / Condition Problems Estimate History / Status Shipping / Billing

Contact Information

Phone: Fax: Email: Comments:

Received Condition

Page: Condition Notes: CSR Notes:

Accessories Received

Code	Desc	Qty
A006	Sling Strap	1
A007	With Stud	1
A010	Hard Case	1
A026	Scope	1
A045	Bi Pod	1
X	FRT & REAR SGT BA	2
XX	DEPLOYMENT CASE	1
XXX	SCOPE CASE	1

Repair Search Refresh Close

9/10/02 7:36 AM CAPS NUM NS SCRL

Start Inbox Calend VAC-DI Scorec Scorec Arms S Prints 7:36 AM

Serial Number: **C6349068**Model: **700****RE00051779**

9/6P

BARBER - M24 0107077

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-97-C-242

R & E NUMBER	51779		
SERIAL NUMBER	C6349068		
LOG-IN DATE	9/5/02		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	9/6/02	RL
560 A	RE-BARREL	9/6/02	RL
B	DRILL AND TAP	9-10-02	AC
575	ASSEMBLE	9/6/02	RL
600	PROOF	9/6/02	RL
605	CHECK HEADSPACE	9/6/02	RL
610	DIS-ASSEMBLE GUN	9/9/02	RL
612	MAGNAFLUX		
615	ROLLMARK CALIBER	9/10	BS
618	ROTO-BLAST		
620	APPLY COATINGS	9-18	TA
625 A	FINAL ASSEMBLY	9-19-02	RL
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE		
D	SAFETY "OFF" FORCE		
E	FIRING PIN INDENT		
640	TARGET	9-23-02	AC
655	FINAL INSPECT	9/24/02	RL
660	PACK	10-22-02	DA
		SHIP DATE	
QAR INSPECTION DATE			

Final Inspection

In: 56349068

DATE REC'D: 9/5/02

DATE RET'D: 9/19/02

EDITOR: RL

Item:

Barrel Assy.

- ☐ BARREL
- ☒ RECEIVER
- ☒ FRONT Sight Block
- ☒ REAR Sight Block
- ☒ SCREWS
- ☒ FINISH

Scope Assy.

- ☒ Scope
- ☒ Scope Rings
- ☒ Mounting Screws
- ☒ Mounting Base
- ☒ Screws
- ☒ Finish
- ☒ Looseness
- ☒ Clarity

Misc.

- ☐ DD-250
- ☐ BAR CODE
- ☐ PACKAGING

Item:

Stock Assy.

- ☒ Stock
- ☒ Sling Swivel Studs
- ☒ ADJUSTABLE Butt PLATE
- ☒ Lock Nuts
- ☒ BARREL CLEARANCE
- ☒ COLOR/FINISH

Systems Case

- ☐ Scope Case
- ☐ Iron SIGHTS
- ☐ Deployment Kit

Trigger

- ☒ SAFETY Operation
- ☐ Set

Comments: _____

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6349068.___0
FILE DATE AND TIME: 09/24/2002 12:02

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.026
The Average Y Centroid of the Five Target Set:	-0.072
The Average Point of Impact of the Five Target Set:	0.076
The Average Mean Radius of the Five Target Set:	0.638
The Distance from POA to Centroid Target #1:	0.060
The Distance from Centroid Target #2 to Centroid Target #1:	0.141
The Distance from Centroid Target #3 to Centroid Target #1:	0.191
The Distance from Centroid Target #4 to Centroid Target #1:	0.162
The Distance from Centroid Target #5 to Centroid Target #1:	0.076

SERIAL NUMBER: C6349068. __0

TARGET NUMBER: 1

FILE DATE: 09/24/2002

FILE TIME: 12:02

POINT#	X	Y
1:	0.714	-0.479
2:	0.678	0.297
3:	0.403	0.591
4:	0.293	0.404
5:	0.106	-0.186
6:	-0.352	0.210
7:	-0.336	-0.326
8:	-0.459	-0.153
9:	-0.663	-0.219
10:	-0.902	-0.432

X CENTROID: -0.052

Y CENTROID: -0.029

POA TO CENTROID: 0.060

HORZ SPREAD: 1.616

VERT SPREAD: 1.070

GROUP SPREAD: 1.740

MIN RADIUS: 0.222

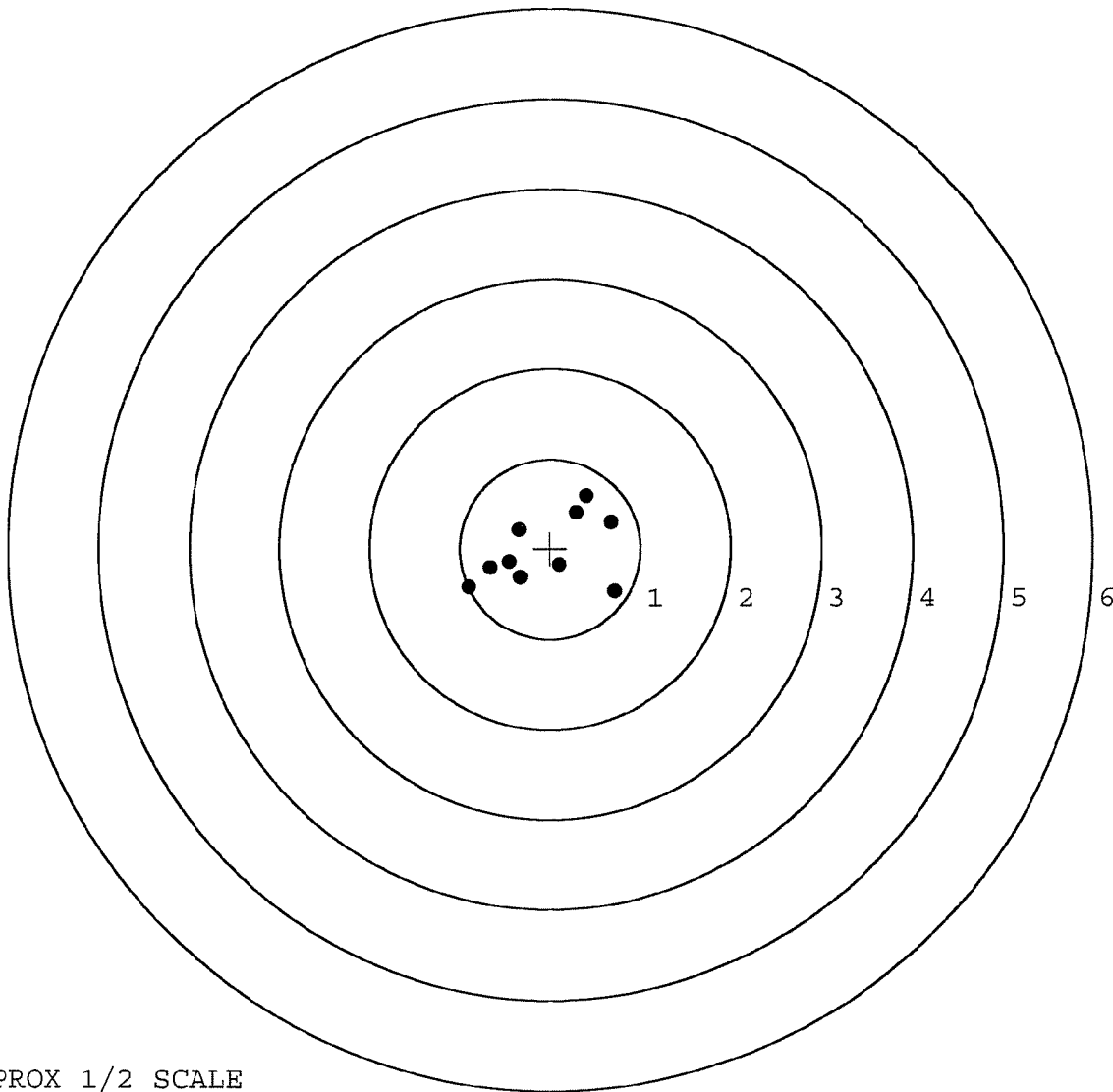
MAX RADIUS: 0.941

MEAN RADIUS: 0.603

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349068. 0

TARGET NUMBER: 2

FILE DATE: 09/24/2002

FILE TIME: 12:02

X CENTROID: 0.071

Y CENTROID: 0.041

POA TO CENTROID: 0.081

HORZ SPREAD: 1.776

VERT SPREAD: 1.673

GROUP SPREAD: 1.802

MIN RADIUS: 0.274

MAX RADIUS: 1.154

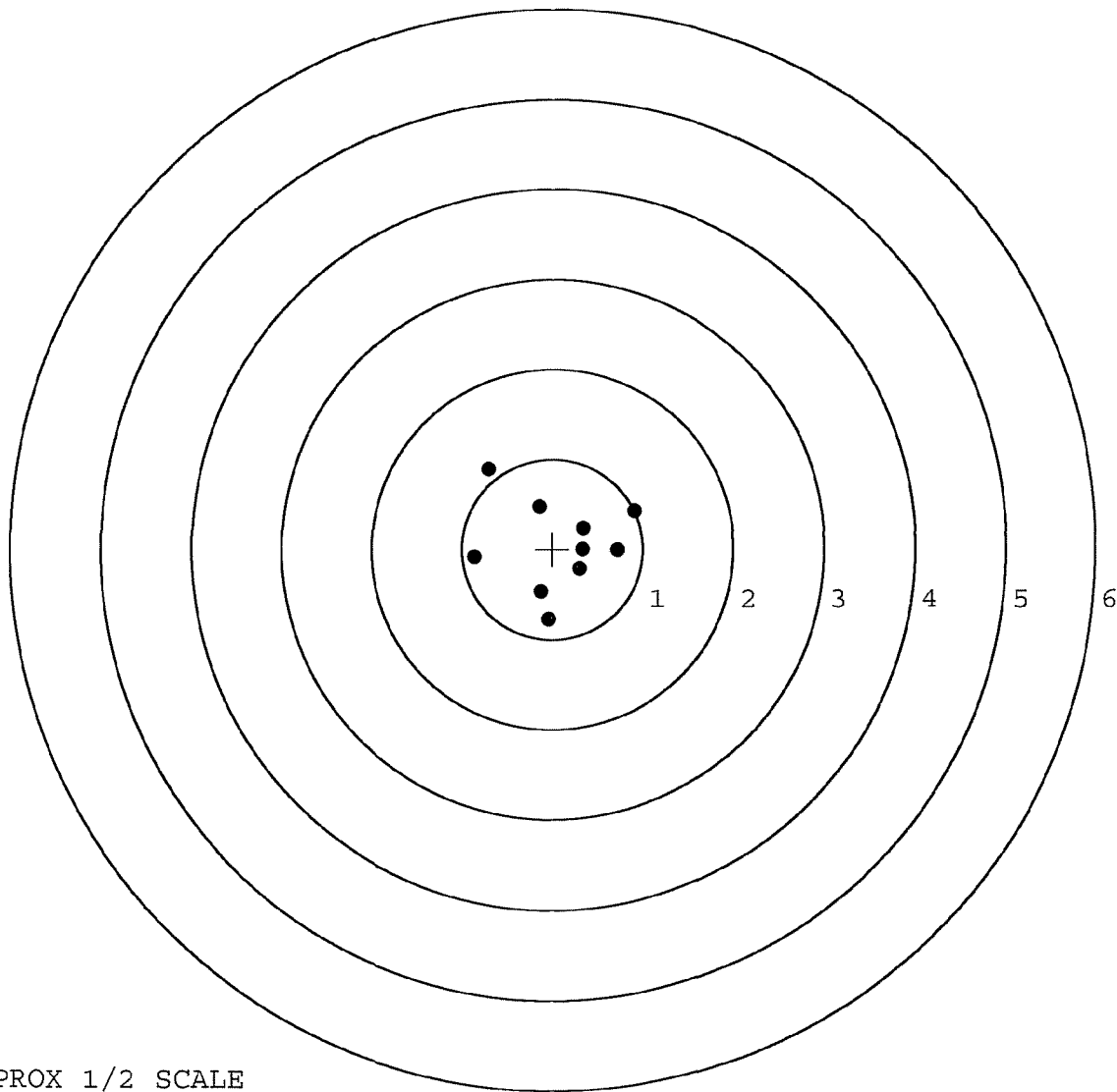
MEAN RADIUS: 0.650

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.043	-0.785
2:	-0.133	-0.477
3:	-0.863	-0.091
4:	-0.153	0.470
5:	-0.713	0.888
6:	0.913	0.426
7:	0.723	-0.017
8:	0.334	0.230
9:	0.302	-0.225
10:	0.339	-0.012



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349068. __0

TARGET NUMBER: 3

FILE DATE: 09/24/2002

FILE TIME: 12:02

POINT#	X	Y
1:	0.828	-0.865
2:	0.618	-0.584
3:	0.966	-0.251
4:	0.815	0.202
5:	0.467	0.062
6:	-0.114	0.573
7:	-0.471	0.074
8:	-0.405	-0.374
9:	-0.528	-0.122
10:	-1.083	-0.027

X CENTROID: 0.109

Y CENTROID: -0.131

POA TO CENTROID: 0.171

HORZ SPREAD: 2.049

VERT SPREAD: 1.438

GROUP SPREAD: 2.087

MIN RADIUS: 0.407

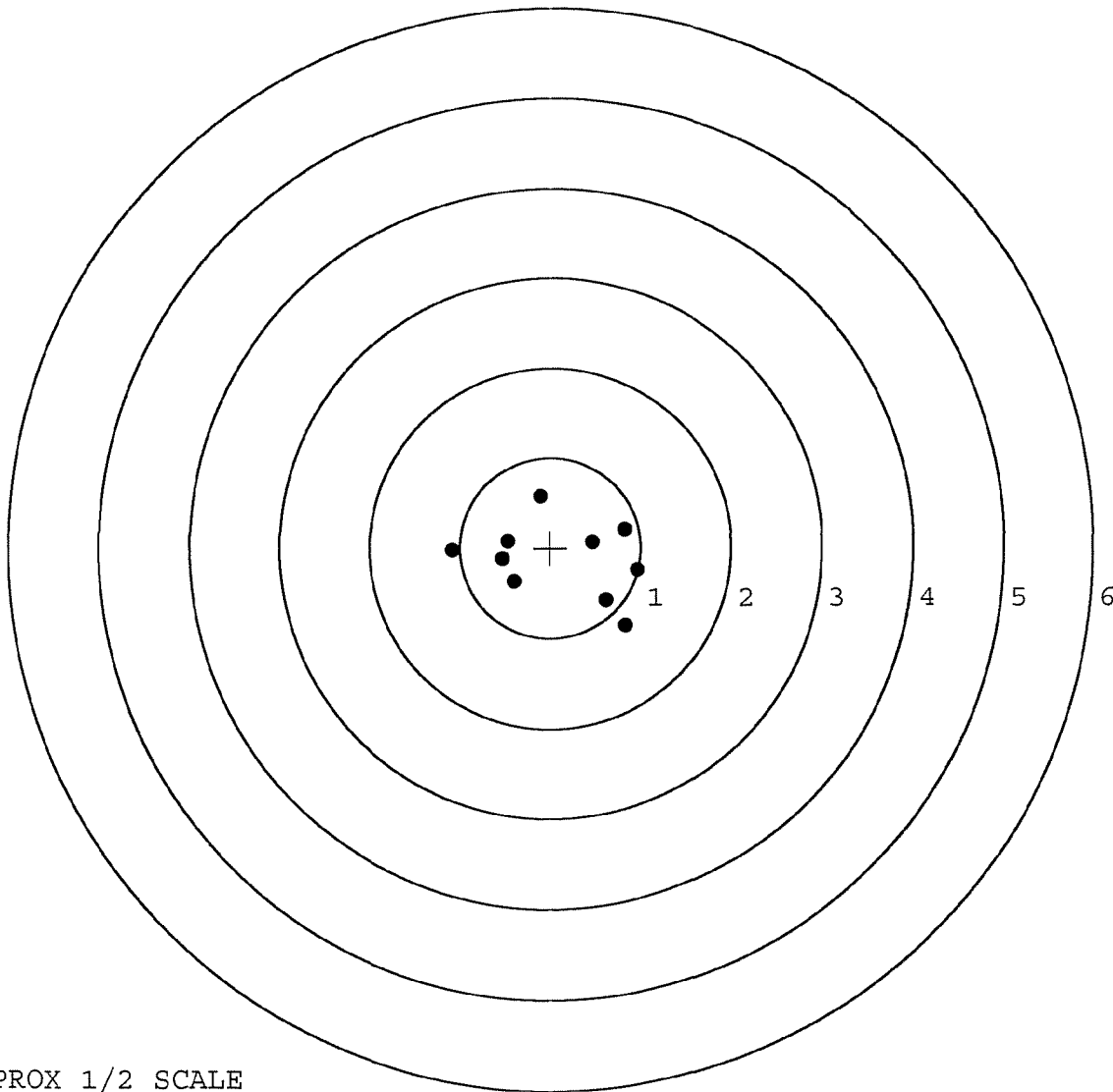
MAX RADIUS: 1.197

MEAN RADIUS: 0.752

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349068. __0

TARGET NUMBER: 4

FILE DATE: 09/24/2002

FILE TIME: 12:02

X CENTROID: -0.143

Y CENTROID: -0.163

POA TO CENTROID: 0.217

HORZ SPREAD: 2.085

VERT SPREAD: 2.234

GROUP SPREAD: 2.353

MIN RADIUS: 0.096

MAX RADIUS: 1.360

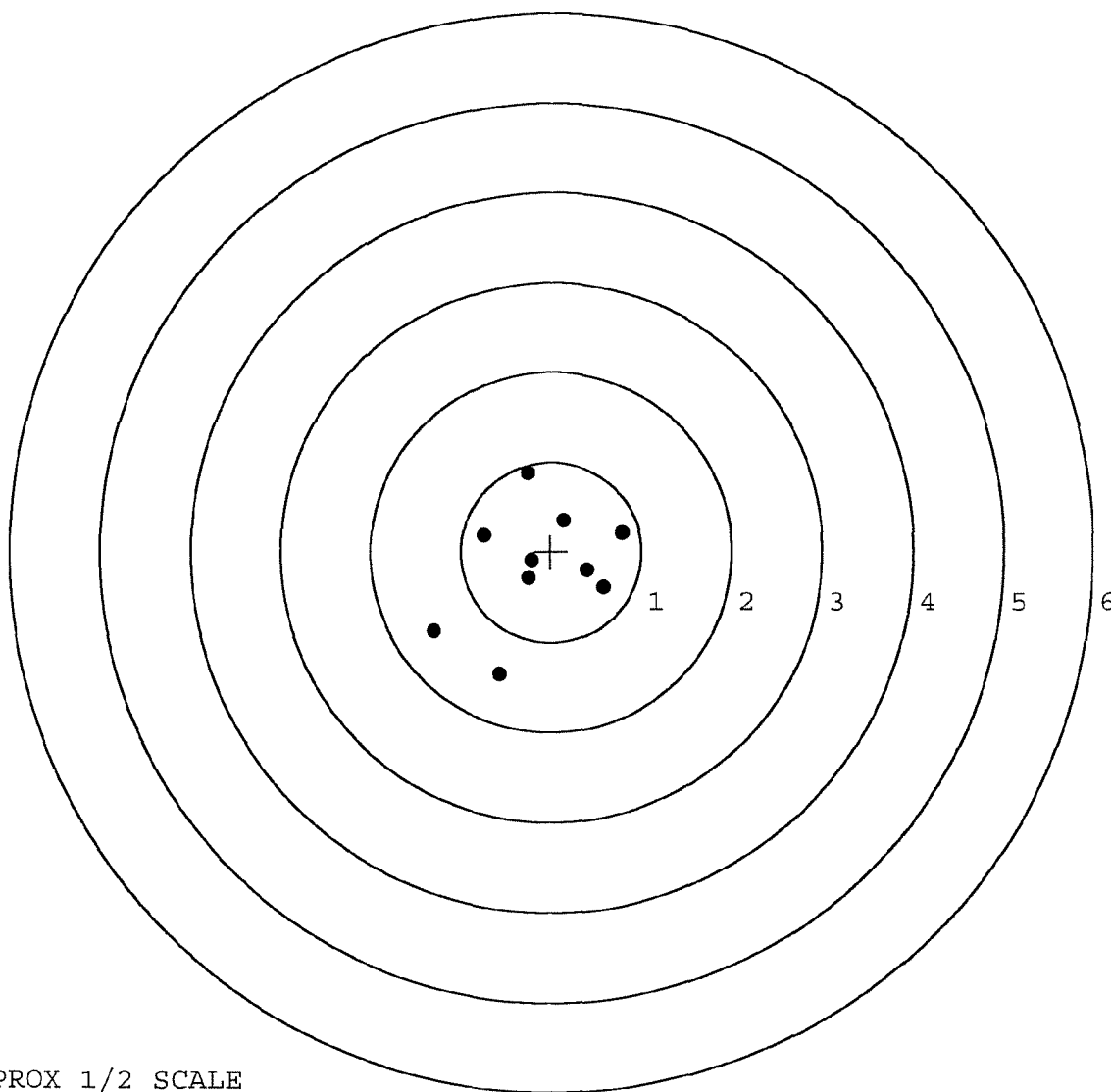
MEAN RADIUS: 0.753

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.570	-1.359
2:	-1.298	-0.881
3:	-0.744	0.183
4:	-0.217	-0.102
5:	-0.253	-0.296
6:	0.582	-0.395
7:	0.403	-0.205
8:	0.787	0.209
9:	0.139	0.342
10:	-0.262	0.875



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349068. __0

TARGET NUMBER: 5

FILE DATE: 09/24/2002

FILE TIME: 12:02

X CENTROID: -0.112

Y CENTROID: -0.075

POA TO CENTROID: 0.135

HORZ SPREAD: 1.310

VERT SPREAD: 1.022

GROUP SPREAD: 1.486

MIN RADIUS: 0.131

MAX RADIUS: 0.757

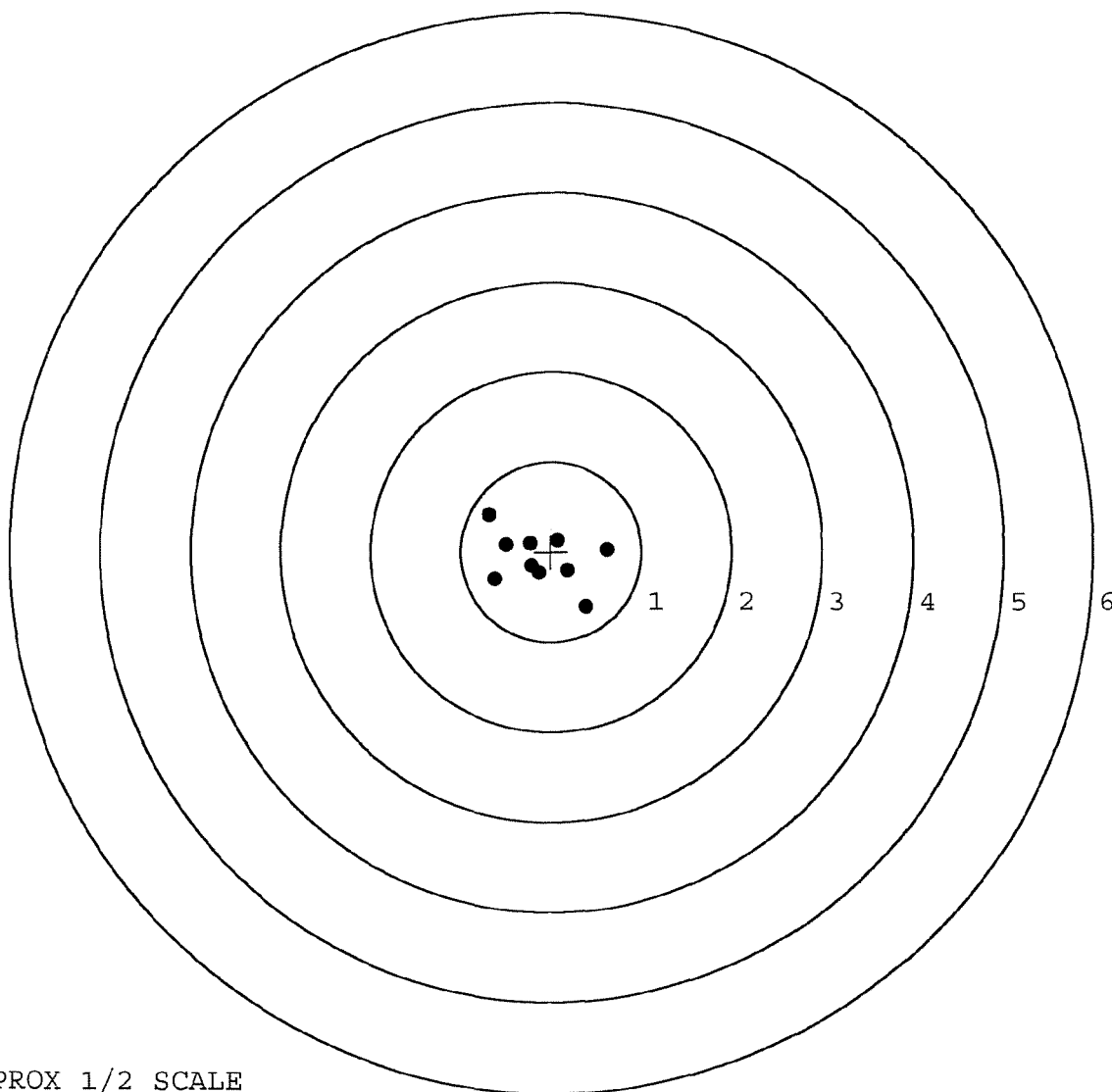
MEAN RADIUS: 0.432

IN 1 IN DIAMETER: 6

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.389	-0.608
2:	0.186	-0.209
3:	0.620	0.032
4:	-0.624	-0.304
5:	-0.217	-0.154
6:	-0.232	0.098
7:	-0.690	0.414
8:	0.075	0.133
9:	-0.135	-0.238
10:	-0.497	0.086



TARGET APPROX 1/2 SCALE

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6349068

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	1 30	90	RW
600	Proof	1 30	90	A
607	Check Headspace	1 30	90	A
610	Dis-assemble Gun	1 30	90	RW
612	Magnaflux Barrel Action	2-5-90		KER
	Magnaflux Bolt	2-5-90		
615	Rollmark Caliber		2/5/90	GS
617	Drill and Tap Sight Holes		2/5/90	FB
618	Polish Barrel RB		2/5/90	WB
620	Apply Coatings (Barrel Action)		2-7-90	JA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		2/19/90	WB
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		2/19/90	WB
	C) Inspect Ejector Hole for Chamfer		4/18/90	RW
	D) Oil Firing Pin Ass'y		4/18/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		4/23/90	JA

BARBER - M24 0107086		READINGS					DATE	INIT
op. #	OP. NAME							
625 cont.	F) Safety On Force	4	4	4			4/23/90	JK
	G) Safety Off Force	3	3	3			4/23/90	JK
	H) Trigger Pull Test & Retainability						4/23/90	JK
	I) Firing Pin Indent	.021	.0205	.0205			4/23/90	JK
	J) Assemble Stock						4/30/90	RW
	K) Assemble Swivel Studs						5/1/90	WB
	L) Attach Front and Rear Sight Assemblies						4/30/90	RW
	M) Iron Sight Alignment						4/30/90	RW
	N) Detach Front & Rear Sights & place in numbered container						4/30/90	RW
	O) Attach Scope to Rifle						4/30/90	WB
	P) Detach & Attach Scope 20 Times						4/30/90	WB
640	Gallery Target & Test						4-30-90	DH
	A) Time						4-30-90	DH
	B) Malfunctions						4-30-90	DH
	C) Pierced Primers						4-30-90	DH
	D) Optical Clarity of Scope						4-30-90	DH
645	Inspect for Live Ammo						4-30-90	DH
655	Final Inspection						5/1/90	WB
	A) Headspace							
	B) Trigger Pull	2.63	2.59	2.64	2.65	2.63	5/1/90	WB
	C) Function						5/1/90	WB
660	Pack						6/19/90	KSL



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

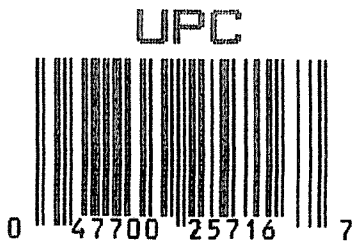
MODEL 700TM M24

01

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

SERIAL NO.
C6349068

ORDER NO.
5716



AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO. CL349068

DATE 4/23-90

TESTER JH

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.57	2.39	2.60	2.63	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.43	2.37	2.41	2.59	
PULL #3	2.44	2.38	2.36	2.64	
PULL #4	2.43	2.48	2.40	2.65	
PULL #5	2.38	2.37	2.36	2.63	
TOTAL	12.25	11.99	12.13		
AVG.	2.45	2.398	2.426		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.27	3.54		
PULL #2	3.16	3.42		
PULL #3	3.16	3.40		
PULL #4	3.11	3.44		
PULL #5	3.05	3.34		
TOTAL	15.69	16.14		
AVG.	3.138	3.228		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.37	4.20		4.27
PULL #2	4.11	4.16		4.02
PULL #3	4.17	4.16		4.05
PULL #4	4.19	4.30		4.29
PULL #5	4.01	4.50		4.22
TOTAL	20.85	21.32		20.85
AVG.	4.17	4.264		4.17

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6349068
1 May 1990

CENTROIDAL DISTANCES

0 TO	1	.148125
1 TO	2	.537848
1 TO	3	.207331
1 TO	4	.374363
1 TO	5	.0643817

44 <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.1314
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0634
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .145896

THE AMR FOR THIS RIFLE IS: .88

1 May 1990

FILE:/PATTERNING/CENTERFIRE_PATT/06349088

CENTERFIRE PATTERNS # 1

POA

1 in circle

2 in circle

3 in circle

OF SHOTS- 10

IN CIR

1 in = 1

2 in = 7

3 in = 10

HS= 1.569

VS= 2.410

GS= 2.471

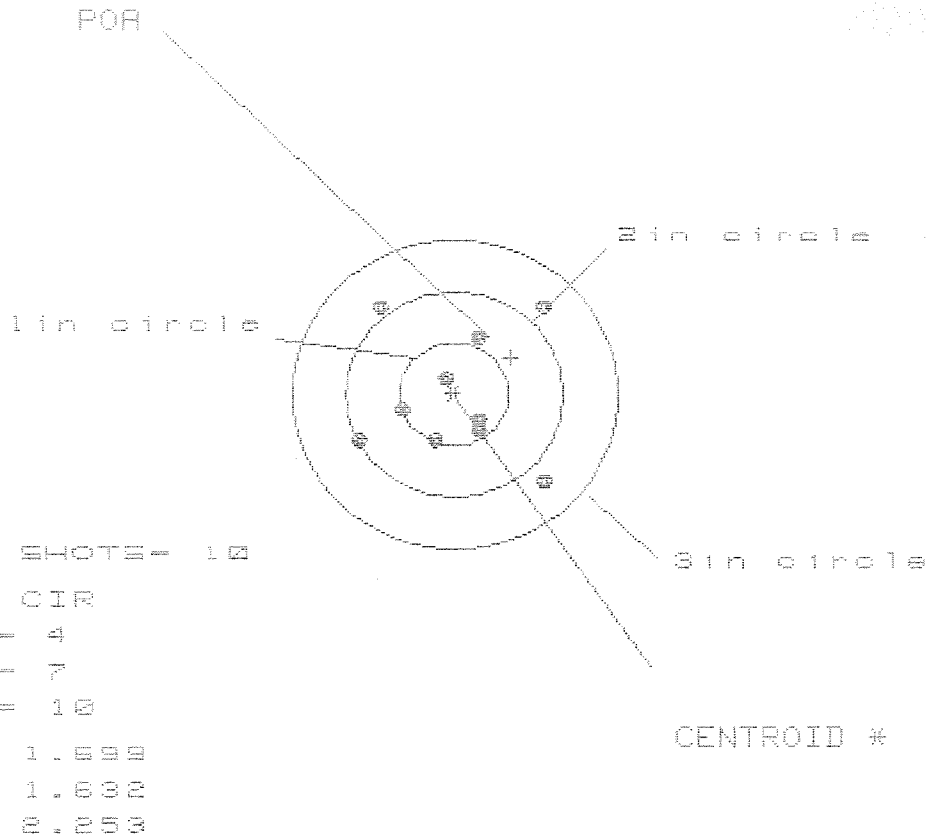
CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.767	.691	.665
MINIMUM X	-.802	-.878	-.904
MAXIMUM Y	1.240	.942	.813
MINIMUM Y	-1.170	-1.032	-.699
CENTROID X	-.025	.051	.077
CENTROID Y	-.146	-.284	-.155
POA TO CENTROID in.	.148	.288	.173
MIN RADIUS	.204	.090	.128
MEAN RADIUS	.809	.717	.667
MAX RADIUS	1.414	1.053	1.143
HORIZONTAL SPREAD	1.569	1.569	1.569
VERTICAL SPREAD	2.410	1.974	1.512
EXTREME SPREAD	2.471	1.975	1.920
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	7		
NUMBER IN THREE INCH CIRCLE =	10		

1 May 1990

FILE:/PATTERNING/CENTERFIRE_PATT/08349088

CENTERFIRE PATTERNS # 2

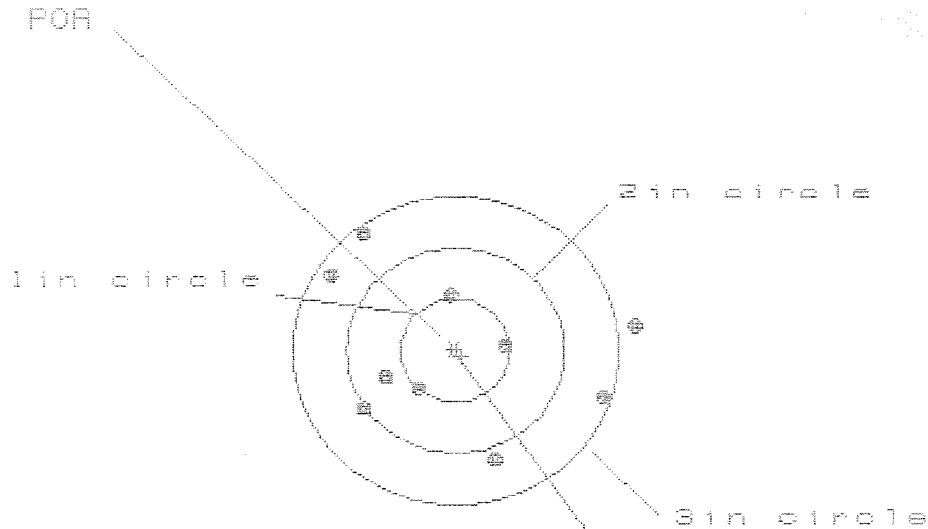


PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.864	.939	.450
MINIMUM X	-.835	-.739	-.621
MAXIMUM Y	.834	.924	.835
MINIMUM Y	-.798	-.708	-.420
CENTROID X	-.521	-.617	-.735
CENTROID Y	-.354	-.444	-.355
POA TO CENTROID in.	.630	.760	.816
MIN RADIUS	.239	.295	.224
MEAN RADIUS	.697	.628	.559
MAX RADIUS	1.184	1.176	.972
HORIZONTAL SPREAD	1.699	1.678	1.071
VERTICAL SPREAD	1.632	1.632	1.255
EXTREME SPREAD	2.253	2.253	1.520
NUMBER IN ONE INCH CIRCLE =	4		
NUMBER IN TWO INCH CIRCLE =	7		
NUMBER IN THREE INCH CIRCLE =	10		

1 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06345068

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 4

3 in = 9

HS= 2.777

VS= 2.201

GS= 2.816

CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.674	1.499	1.416
MINIMUM X	-1.103	-.917	-1.000
MAXIMUM Y	1.134	1.160	.876
MINIMUM Y	-1.067	-1.041	-.896
CENTROID X	-.056	-.242	-.160
CENTROID Y	.059	.033	-.112
POR TO CENTROID in.	.081	.244	.195
MIN RADIUS	.453	.335	.258
MEAN RADIUS	1.004	.901	.837
MAX RADIUS	1.691	1.568	1.451
HORIZONTAL SPREAD	2.777	2.416	2.416
VERTICAL SPREAD	2.201	2.201	1.772
EXTREME SPREAD	2.816	2.701	2.694
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	9		

1 May 1990

FILE:/PATTERNING/CENTERFIRE_PATT/06349068

CENTERFIRE PATTERNS # 4

POR

1 in circle

2 in circle

3 in circle

OF SHOTS = 10

IN CIR

1 in = 1

2 in = 8

3 in = 10

HS = 2.612

VS = 1.553

GS = 2.780

CENTROID *

PATTERN #

4

SHOTS (BEST OF)

10

9

8

MAXIMUM X

1.486

1.023

.903

MINIMUM X

-1.126

-.961

-.821

MAXIMUM Y

.760

.738

.762

MINIMUM Y

-.793

-.815

-.722

CENTROID X

.017

-.148

-.028

CENTROID Y

.226

.248

.155

POR TO CENTROID in.

.227

.288

.158

MIN RADIUS

.416

.404

.483

MEAN RADIUS

.890

.810

.753

MAX RADIUS

1.498

1.212

.997

HORIZONTAL SPREAD

2.612

1.984

1.724

VERTICAL SPREAD

1.553

1.553

1.484

EXTREME SPREAD

2.780

2.347

1.908

NUMBER IN ONE INCH CIRCLE =

1

NUMBER IN TWO INCH CIRCLE =

8

NUMBER IN THREE INCH CIRCLE =

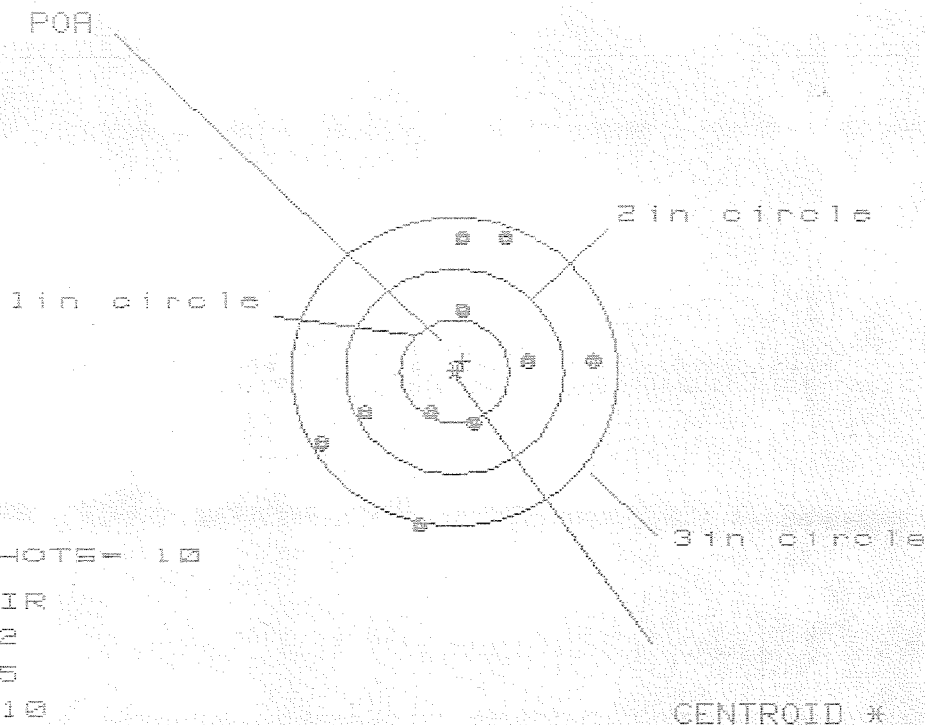
10

1 May 1990

FILE:/PATTERNING/CENTERFIRE_PATT/CB349068

CENTERFIRE PATTERNS

5



OF SHOTS= 10

IN CIR

1in = 2

2in = 5

3in = 10

HS= 2.478

VS= 2.784

GS= 2.895

PATTERN

SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.258	1.211	1.262
MINIMUM X	-1.228	-1.267	-1.216
MAXIMUM Y	1.336	1.175	1.308
MINIMUM Y	-1.448	-1.844	-1.697
CENTROID X	-.072	-.033	-.084
CENTROID Y	-.102	.059	-.088
POA TO CENTROID in.	.125	.067	.122
MIN RADIUS	.422	.455	.428
MEAN RADIUS	1.000	.945	.890
MAX RADIUS	1.489	1.522	1.401
HORIZONTAL SPREAD	2.478	2.478	2.478
VERTICAL SPREAD	2.784	2.019	2.005
EXTREME SPREAD	2.895	2.622	2.588
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		5	
NUMBER IN THREE INCH CIRCLE =		10	