

C6498847

MODEL 700™ M24

Model **SWS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

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: RE00133009

Serial: C6498847 Model M24 SWS Center Fire
Caliber: 7.62 NATO Produced: 06/19/1990

Repairman:

Verify Repair

High Priority

Status:

Closed 8/21/2007 11:40:11 AM

Address Information

Customer:

Received From

Return To:

Received From

Name: C TRP 2/101 CAV

C TRP 2/101 CAV

Address 1: 27 MASTEN AVE

27 MASTEN AVE

Address 2: PO Box:

PO Box:

City: BUFFALO

BUFFALO

State: NY Zip Code: 14204

Country: US

State: NY Zip Code: 14204

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
A010	Hard Case	1
A017	Scope Base	1
A026	Scope	1
A057	Fit and Rear Sgt Base	1
D000	SCOPE CASE	1

Repair Search

Refresh

Close

naglej

8/22/2007

7:52 AM

CAPS

NUM

INS

SCRL



Inbox - Micr...

Calendar - M...

FW: Restrict...

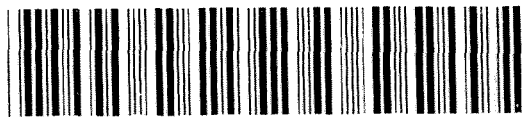
Arms Service...

7:52 AM

Deployment Kit

Serial Number: C6498847

Model: M24 SWS



RE00133009

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6498847.__0
FILE DATE AND TIME: 09/07/2007 11:13

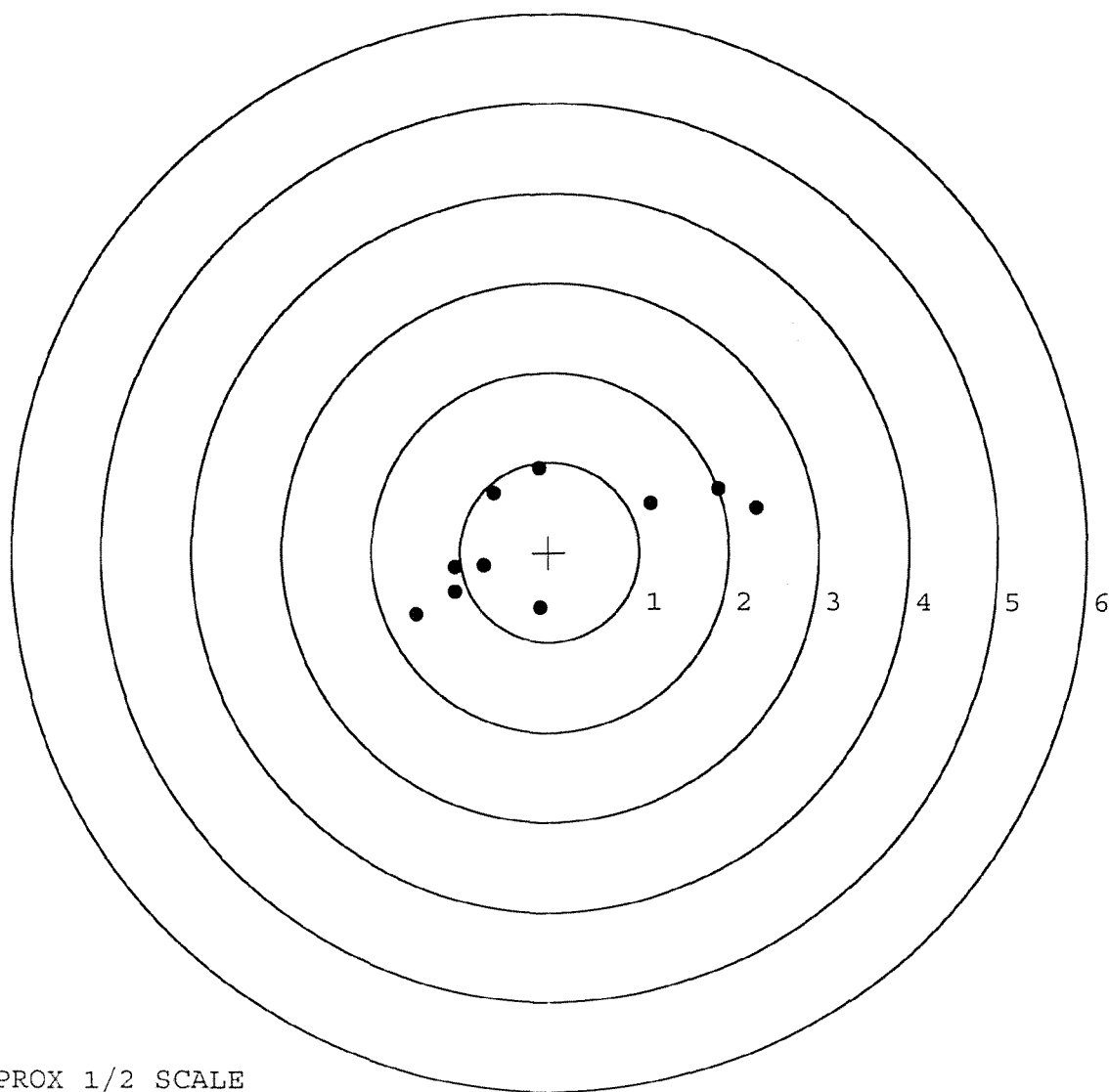
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.131
The Average Y Centroid of the Five Target Set:	-0.060
The Average Point of Impact of the Five Target Set:	0.144
The Average Mean Radius of the Five Target Set:	0.796
The Distance from POA to Centroid Target #1:	0.123
The Distance from Centroid Target #2 to Centroid Target #1:	0.415
The Distance from Centroid Target #3 to Centroid Target #1:	0.140
The Distance from Centroid Target #4 to Centroid Target #1:	0.087
The Distance from Centroid Target #5 to Centroid Target #1:	0.942

SERIAL NUMBER: C6498847. __0
TARGET NUMBER: 1
FILE DATE: 09/07/2007
FILE TIME: 11:13

POINT#	X	Y
1:	-0.117	0.935
2:	1.122	0.540
3:	1.875	0.701
4:	2.296	0.497
5:	-0.625	0.656
6:	-1.056	-0.178
7:	-1.059	-0.447
8:	-1.499	-0.702
9:	-0.106	-0.622
10:	-0.731	-0.156

X CENTROID: 0.010
Y CENTROID: 0.122
POA TO CENTROID: 0.123
HORZ SPREAD: 3.795
VERT SPREAD: 1.637
GROUP SPREAD: 3.980
MIN RADIUS: 0.753
MAX RADIUS: 2.316
MEAN RADIUS: 1.269
IN 1 IN DIAMETER: 0
IN 2 IN DIAMETER: 4
in 3 IN DIAMETER: 7

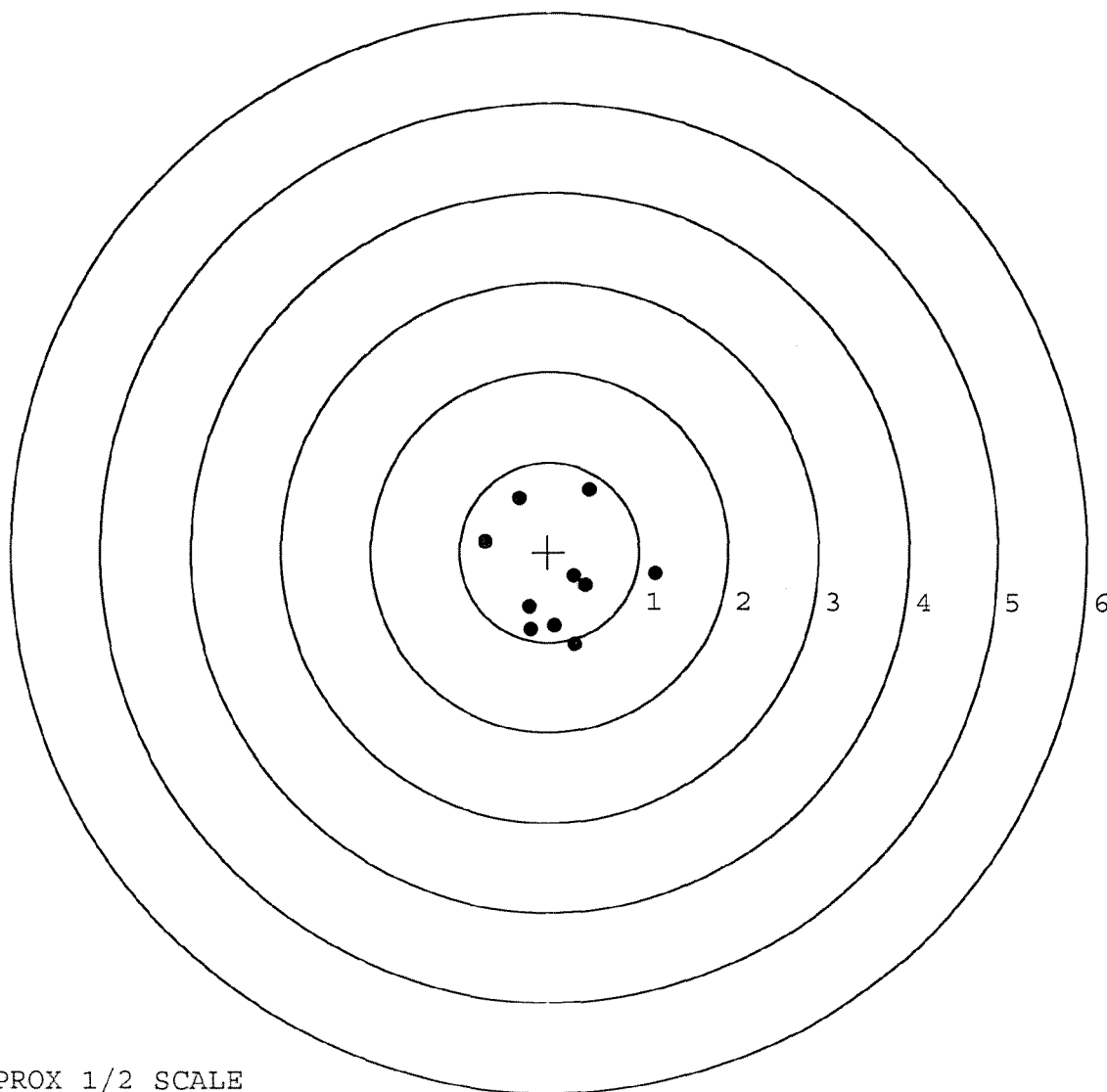


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498847. __0
TARGET NUMBER: 2
FILE DATE: 09/07/2007
FILE TIME: 11:13

POINT#	X	Y
1:	0.448	0.698
2:	-0.328	0.606
3:	-0.714	0.123
4:	0.285	-0.263
5:	0.409	-0.367
6:	1.184	-0.245
7:	0.291	-1.029
8:	0.073	-0.823
9:	-0.203	-0.861
10:	-0.217	-0.607

X CENTROID: 0.123
Y CENTROID: -0.277
POA TO CENTROID: 0.303
HORZ SPREAD: 1.898
VERT SPREAD: 1.727
GROUP SPREAD: 1.933
MIN RADIUS: 0.163
MAX RADIUS: 1.062
MEAN RADIUS: 0.693
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10

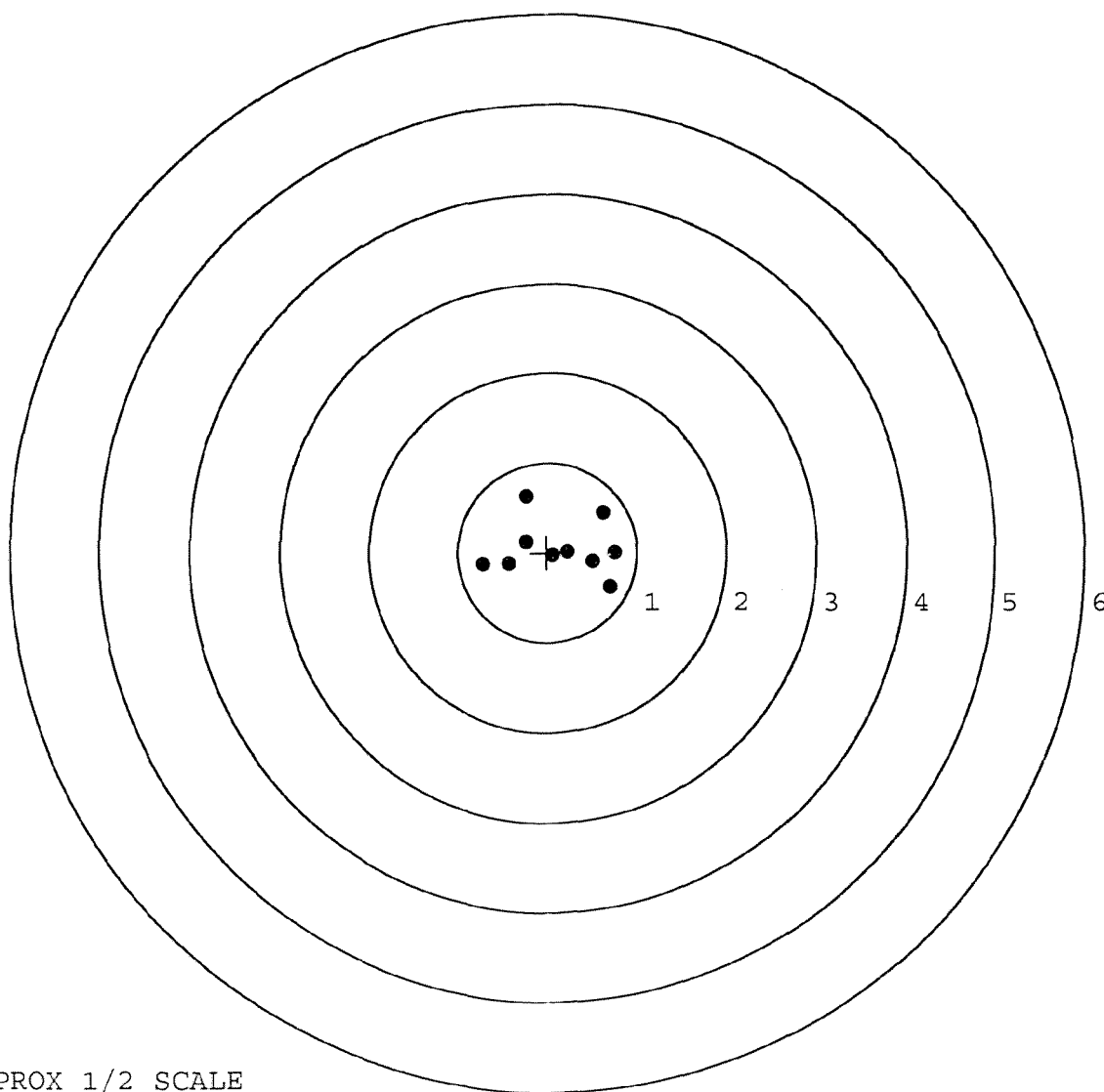


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498847. __0
TARGET NUMBER: 3
FILE DATE: 09/07/2007
FILE TIME: 11:13

POINT#	X	Y
1:	-0.235	0.633
2:	0.620	0.444
3:	0.758	-0.001
4:	0.508	-0.105
5:	0.702	-0.388
6:	0.227	0.010
7:	0.061	-0.030
8:	-0.243	0.124
9:	-0.427	-0.123
10:	-0.719	-0.127

X CENTROID: 0.125
Y CENTROID: 0.044
POA TO CENTROID: 0.133
HORZ SPREAD: 1.477
VERT SPREAD: 1.021
GROUP SPREAD: 1.482
MIN RADIUS: 0.098
MAX RADIUS: 0.861
MEAN RADIUS: 0.511
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10

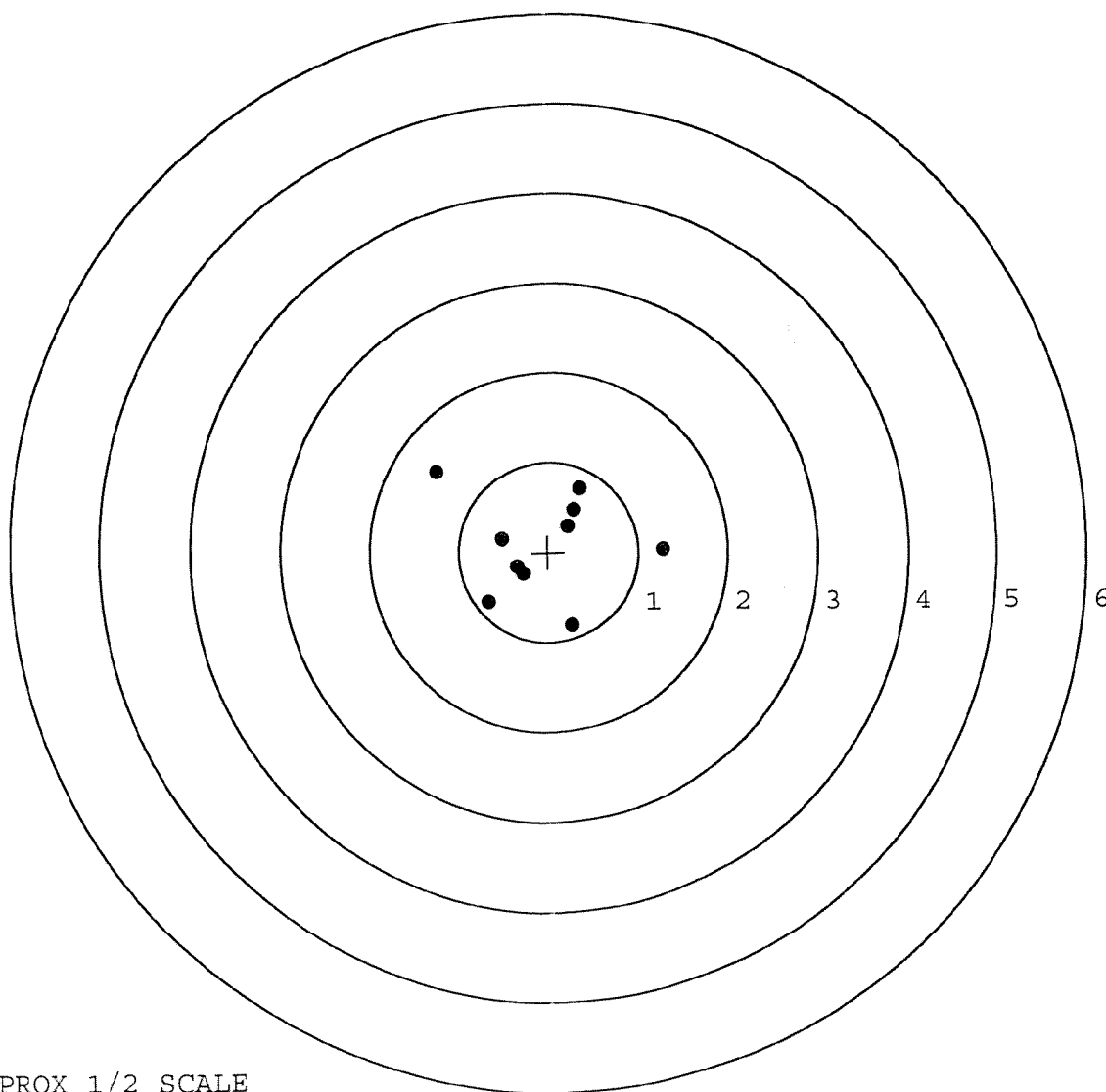


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498847. __0
TARGET NUMBER: 4
FILE DATE: 09/07/2007
FILE TIME: 11:13

POINT#	X	Y
1:	0.358	0.704
2:	-1.243	0.899
3:	-0.518	0.154
4:	-0.351	-0.155
5:	-0.282	-0.239
6:	0.224	0.291
7:	0.287	0.471
8:	1.278	0.027
9:	0.266	-0.821
10:	-0.669	-0.553

X CENTROID: -0.065
Y CENTROID: 0.078
POA TO CENTROID: 0.101
HORZ SPREAD: 2.521
VERT SPREAD: 1.720
GROUP SPREAD: 2.668
MIN RADIUS: 0.359
MAX RADIUS: 1.436
MEAN RADIUS: 0.747
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10

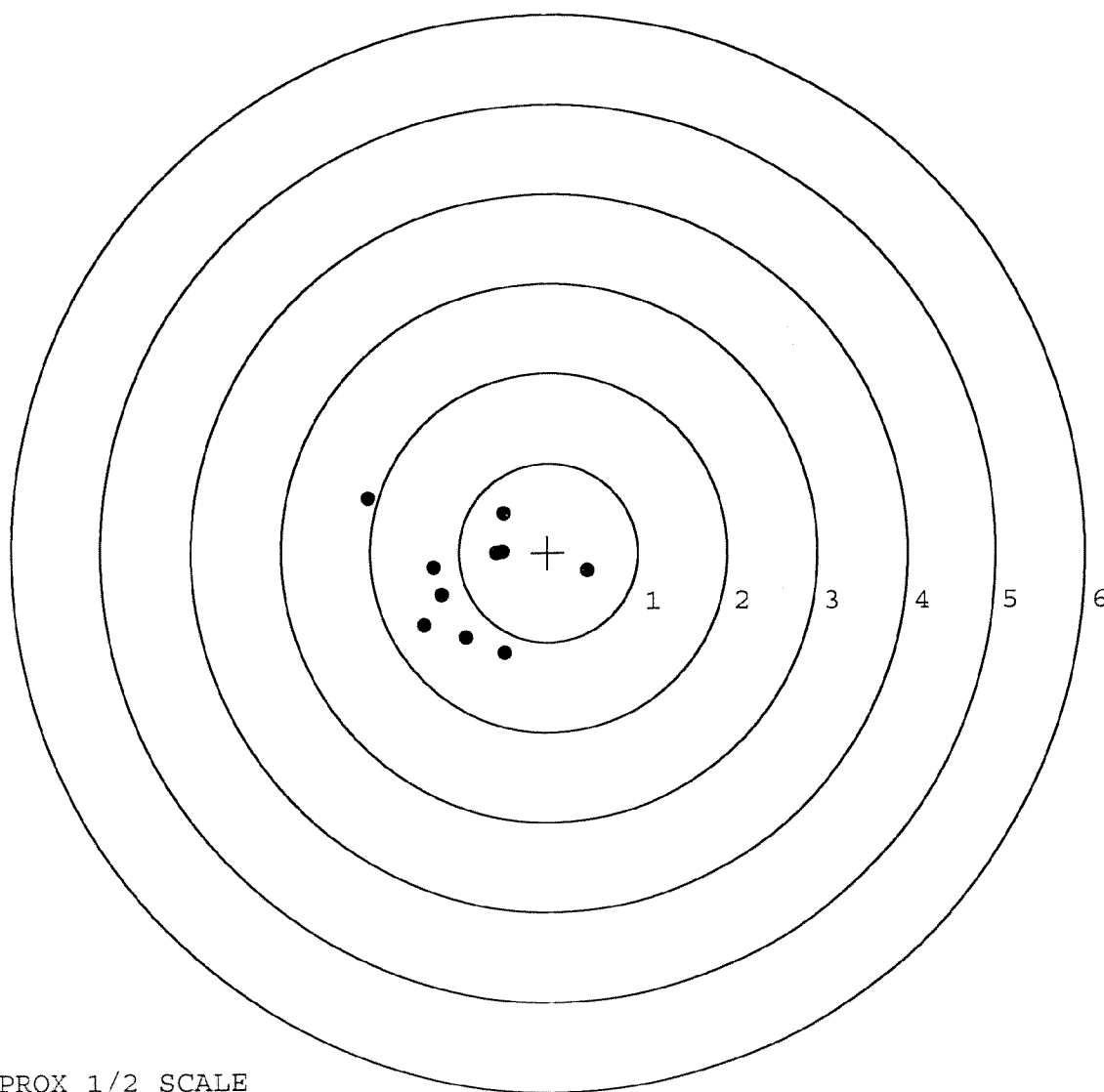


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498847. __0
TARGET NUMBER: 5
FILE DATE: 09/07/2007
FILE TIME: 11:13

POINT#	X	Y
1:	-2.022	0.607
2:	-1.282	-0.171
3:	-1.397	-0.816
4:	-1.198	-0.475
5:	-0.584	0.002
6:	-0.494	0.444
7:	-0.508	0.016
8:	0.438	-0.211
9:	-0.498	-1.126
10:	-0.927	-0.947

X CENTROID: -0.847
Y CENTROID: -0.268
POA TO CENTROID: 0.888
HORZ SPREAD: 2.460
VERT SPREAD: 1.733
GROUP SPREAD: 2.592
MIN RADIUS: 0.377
MAX RADIUS: 1.465
MEAN RADIUS: 0.760
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

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

R & E NUMBER 133009
 SERIAL NUMBER C6498847
 LOG-IN DATE ~~133009~~ 8-21-07

OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	8-22-07	RTZ
505	RE-BARREL	8-23-07	RTZ
560	ASSEMBLE	8-23-07	RTZ
600	PROOF	8-23-07	WJ
605	CHECK HEADSPACE	8-23-07	WJ
610	DIS-ASSEMBLE GUN	8-25-07	RTZ
612	MAGNAFLUX	8-30-07	OB
510	DRILL AND TAP	8-27-07	TRW
615	ROLLMARK CALIBER	8-28-07	CW
618	ROTO-BLAST	8-30-07	WJ
620	APPLY COATINGS	8-31-07	RTZ
625	FINAL ASSEMBLY		
640	FUNCTION TEST AND	(PASS) FAIL	7-7-07 TRW
650	TARGET	(PASS) FAIL	9-7-07 TRW
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	9-7-07 DK
670	FINAL INSPECTION		9-11-07 RTZ
	A) HEADSPACE	(PASS) FAIL	9-11-07 RTZ
	B) TRIGGER PULL	2.63 2.57 2.58 2.57 2.54	9-10-07 DA
680	F) SAFETY ON FORCE	5.5 5.5 5.0	9-10-07 FM
	G) SAFETY OFF FORCE	3.0 3.0 3.0	9-10-07 FM
	I) FIRING PIN INDENT	.023 .024 .023	9-10-07 FM
690	PACK		9-11-07 RTZ

Repair Inquiry

Repair Number: RE00070652

Serial: C6498847 Model 700 Center Fire Caliber: 7
62 NATO M/24 SWS Produced: 06/19/1990

Repairman:

Verify Repair

High Priority

Status:

New 9/26/2003 2:17:58 PM

Address Information

Customer:

Received From

Return To:

Received From

Name: HHC 2 108 IN

HHC 2 108 IN

Address 1: 1700 PKWY ARMORY

1700 PKWY ARMORY

Address 2:

PO Box:

PO Box:

City: UTICA

UTICA

State: NY

Zip Code: 13501

Country: US

State: NY

Zip Code: 13501

Country: US

ScreenPrint32 v3.1 - Currently Unregistered

Printing Image to '<Default Printer>'. Please Wait...

Contact / Condition

Shipping / Billing

Contact Information

Phone: 315 724 1386 15

Fax:

Email:

Comments: OR EXT 310R 31

Good

Condition
Notes:CSR
Notes:

Is Received

Code	Desc	Qty
A007	With Stud	3
A010	Hard Case	1
A017	Scope Base	1
A026	Scope	1
A045	Bi Pod	1
C000	FRT&REAR BASES	1

Repair Search

Refresh

Close

naglet

9/29/2003

7:39 AM

CAPS

NUM

IINS

SCPL

start

Inbox - Microsof...

Calendar - Micro...

Microsoft Excel ...

Arms Services R...

7:39 AM

Serial Number:

C6498847

Model: 700



RE00070652

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

R & E NUMBER	70652		
SERIAL NUMBER	C6498847		
LOG-IN DATE	9-26-03		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	10-1-03	RTL
560 A	RE-BARREL	10-7-03	RTL
B	DRILL AND TAP	10-9-03	TRW
575	ASSEMBLE MAGNA-FLUX	10-7-03	RTL
600	PROOF INSPECTED		
605	CHECK HEADSPACE 05 2003	10-8-03	RTL
610	DIS-ASSEMBLE GUN	10-8-03	RTL
612	MAGNAFLUX		
615	ROLLMARK CALIBER	10-11-03	RT
618	ROTO-BLAST	10/13/2003	DMF
620	APPLY COATINGS	10-14	TA
625 A	FINAL ASSEMBLY	10-22-03	RW
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE		
D	SAFETY "OFF" FORCE		
E	FIRING PIN INDENT		
640	TARGET	10-24-03	TRW
655	FINAL INSPECT	10-25-03	RW
660	PACK	10-26-03	RTA
		SHIP DATE	
	QAR INSPECTION DATE		

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6498847.___0

FILE DATE AND TIME: 10/24/2003 06:47

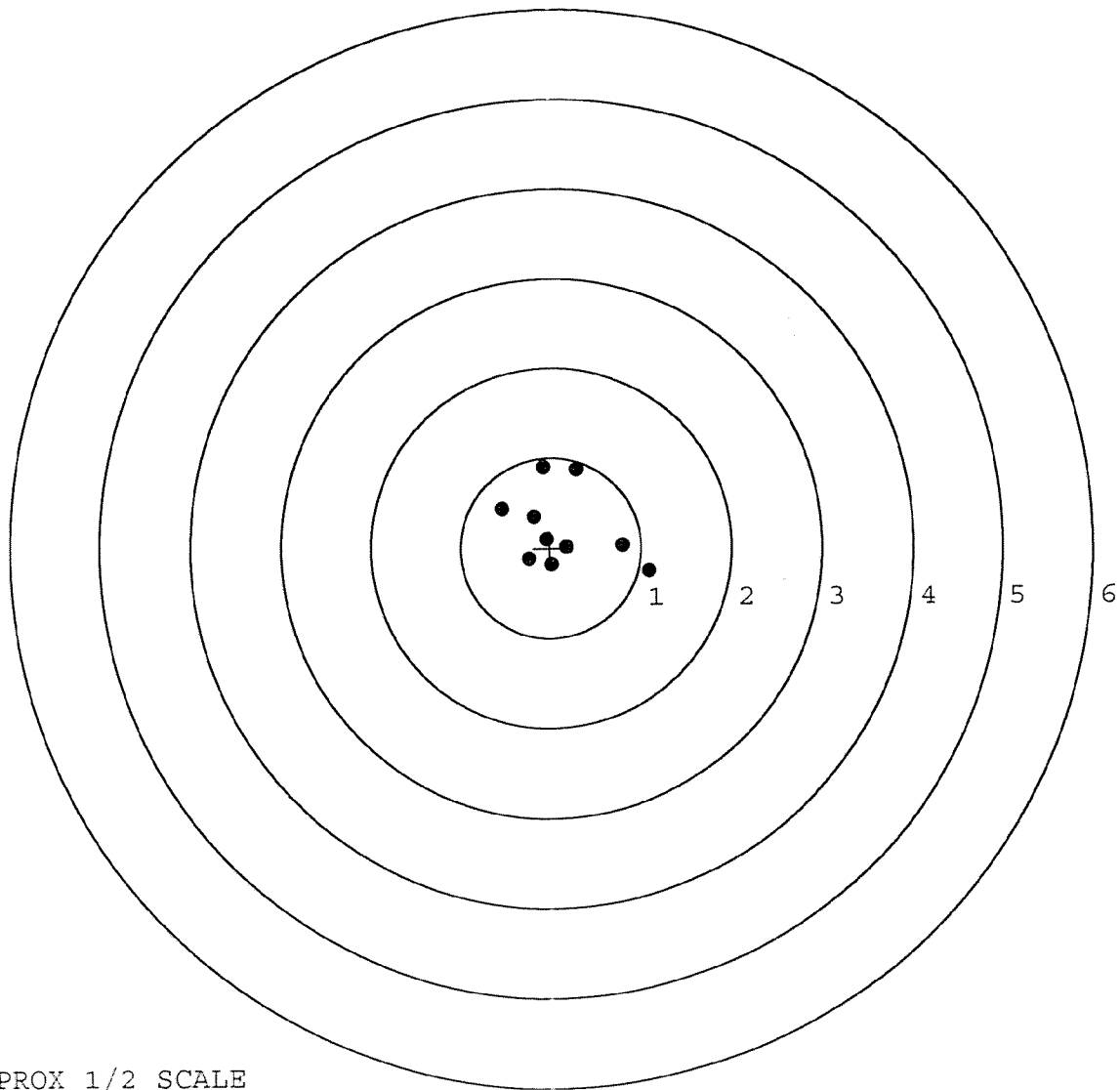
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.025
The Average Y Centroid of the Five Target Set:	0.046
The Average Point of Impact of the Five Target Set:	0.053
The Average Mean Radius of the Five Target Set:	0.638
The Distance from POA to Centroid Target #1:	0.247
The Distance from Centroid Target #2 to Centroid Target #1:	0.213
The Distance from Centroid Target #3 to Centroid Target #1:	0.368
The Distance from Centroid Target #4 to Centroid Target #1:	0.196
The Distance from Centroid Target #5 to Centroid Target #1:	0.239

SERIAL NUMBER: C6498847. __0
TARGET NUMBER: 1
FILE DATE: 10/24/2003
FILE TIME: 06:47

X CENTROID: 0.129
Y CENTROID: 0.211
POA TO CENTROID: 0.247
HORZ SPREAD: 1.626
VERT SPREAD: 1.163
GROUP SPREAD: 1.773
MIN RADIUS: 0.208
MAX RADIUS: 1.072
MEAN RADIUS: 0.553
IN 1 IN DIAMETER: 5
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	1.089	-0.266
2:	0.794	0.028
3:	0.287	0.870
4:	-0.078	0.897
5:	-0.537	0.440
6:	-0.184	0.347
7:	0.186	0.010
8:	0.019	-0.188
9:	-0.238	-0.126
10:	-0.046	0.099

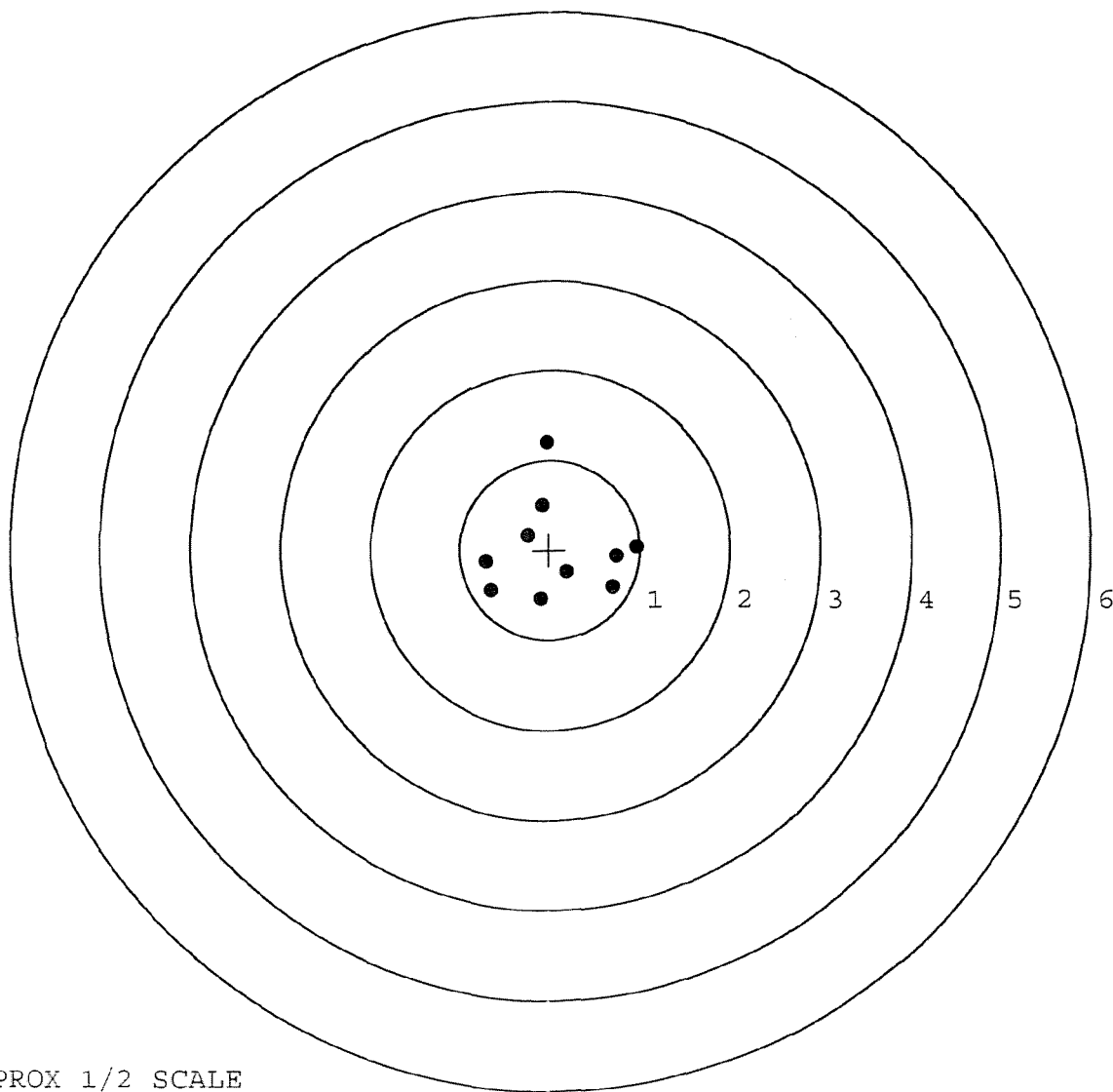


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498847. __0
TARGET NUMBER: 2
FILE DATE: 10/24/2003
FILE TIME: 06:47

POINT#	X	Y
1:	0.704	-0.414
2:	0.746	-0.067
3:	0.969	0.038
4:	0.199	-0.252
5:	-0.094	-0.553
6:	-0.653	-0.447
7:	-0.700	-0.127
8:	-0.238	0.162
9:	-0.085	0.498
10:	-0.027	1.195

X CENTROID: 0.082
Y CENTROID: 0.003
POA TO CENTROID: 0.082
HORZ SPREAD: 1.669
VERT SPREAD: 1.748
GROUP SPREAD: 1.767
MIN RADIUS: 0.281
MAX RADIUS: 1.197
MEAN RADIUS: 0.690
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

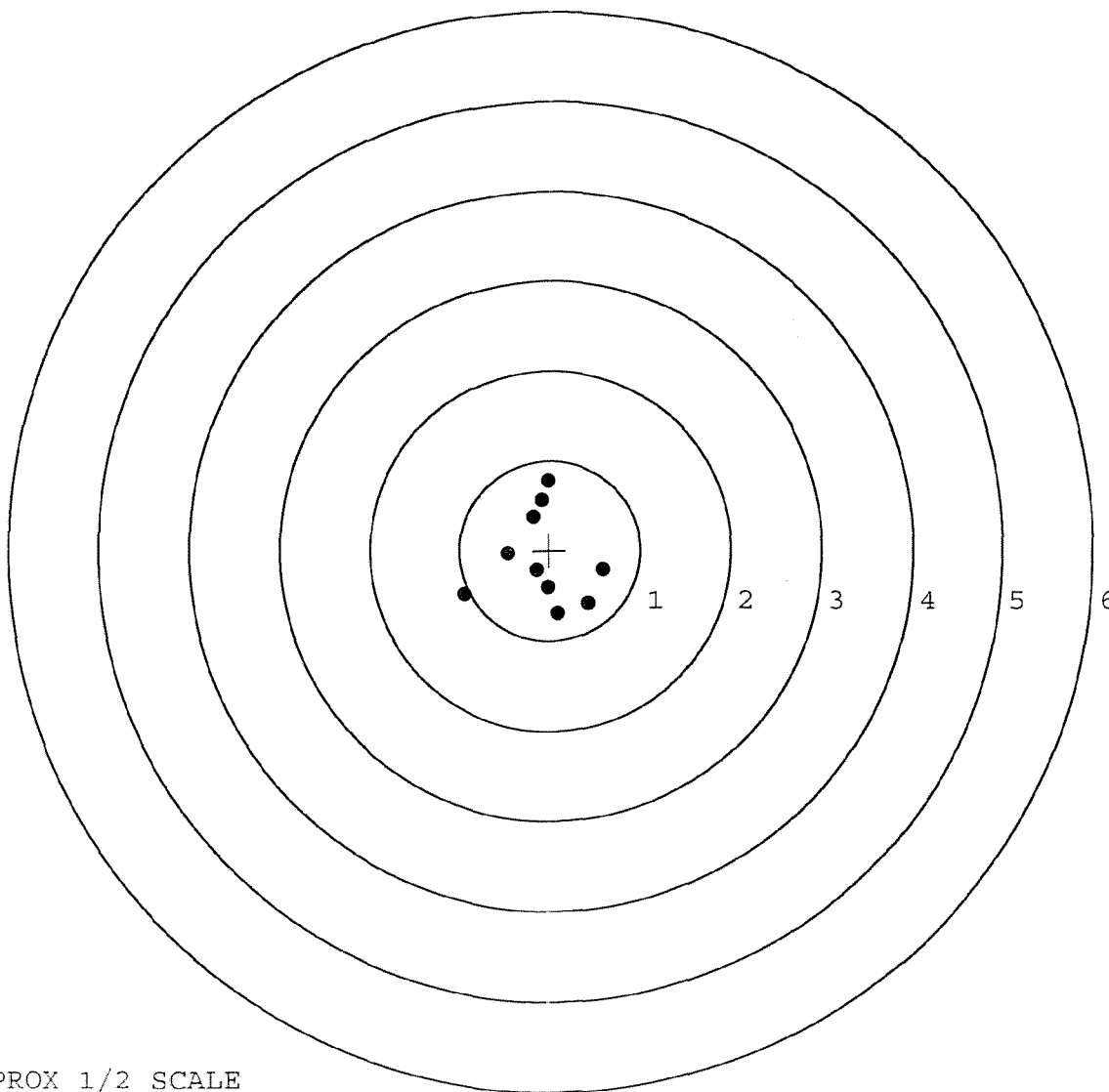


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498847. __0
TARGET NUMBER: 3
FILE DATE: 10/24/2003
FILE TIME: 06:47

POINT#	X	Y
1:	0.588	-0.214
2:	0.428	-0.590
3:	0.100	-0.701
4:	-0.015	-0.419
5:	-0.143	-0.222
6:	-0.946	-0.500
7:	-0.464	-0.035
8:	-0.182	0.377
9:	-0.016	0.779
10:	-0.091	0.563

X CENTROID: -0.074
Y CENTROID: -0.096
POA TO CENTROID: 0.121
HORZ SPREAD: 1.534
VERT SPREAD: 1.480
GROUP SPREAD: 1.581
MIN RADIUS: 0.143
MAX RADIUS: 0.961
MEAN RADIUS: 0.586
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498847. __0

TARGET NUMBER: 4

FILE DATE: 10/24/2003

FILE TIME: 06:47

POINT#	X	Y
1:	0.885	-0.297
2:	0.581	-0.284
3:	0.153	-0.610
4:	-0.343	-0.658
5:	0.191	0.085
6:	-0.350	-0.018
7:	-0.748	-0.120
8:	-0.342	0.842
9:	-0.477	1.213
10:	-0.007	1.070

X CENTROID: -0.046

Y CENTROID: 0.122

POA TO CENTROID: 0.131

HORZ SPREAD: 1.633

VERT SPREAD: 1.871

GROUP SPREAD: 2.034

MIN RADIUS: 0.240

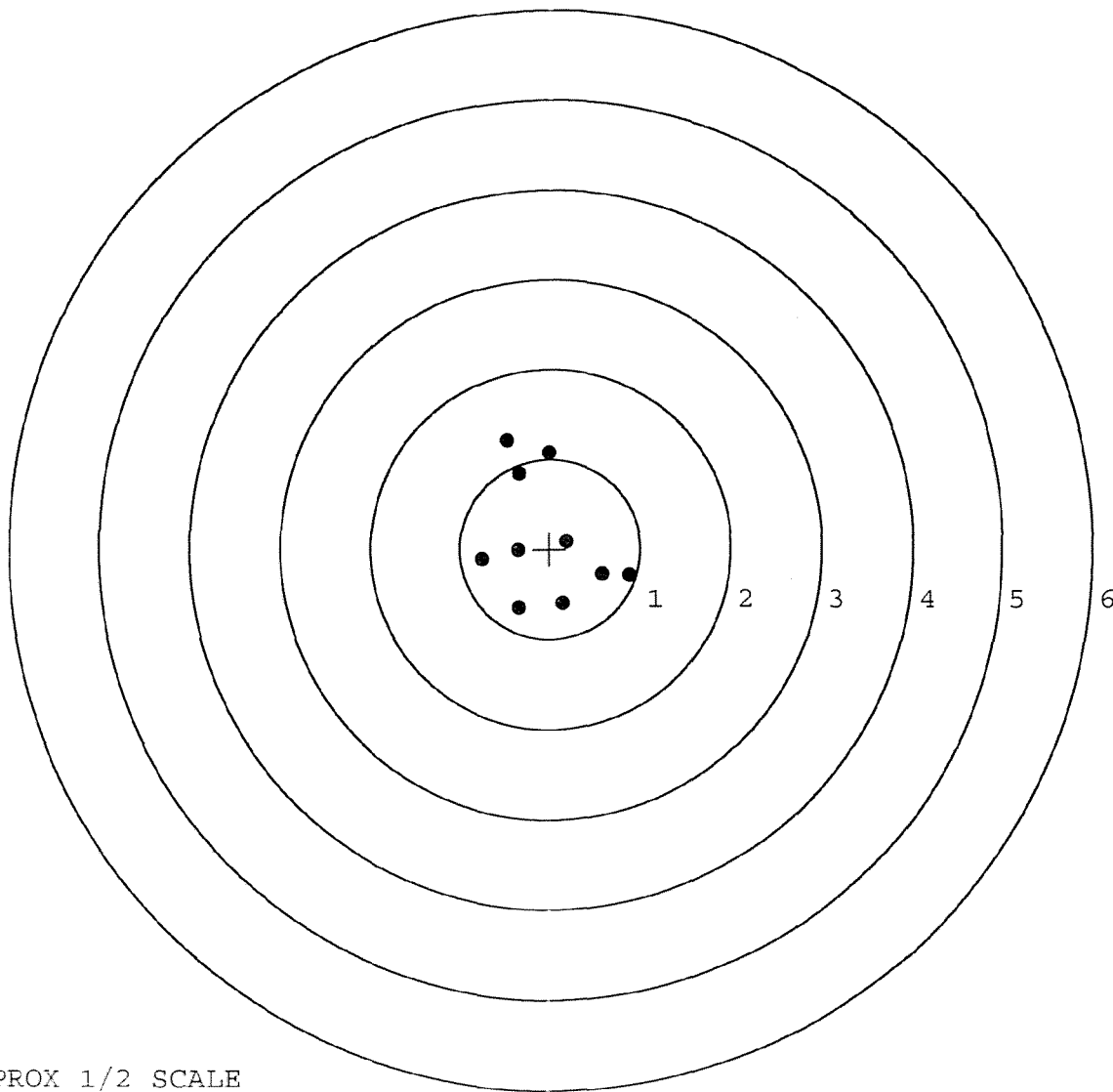
MAX RADIUS: 1.173

MEAN RADIUS: 0.758

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498847. 0

TARGET NUMBER: 5

FILE DATE: 10/24/2003

FILE TIME: 06:47

POINT#	X	Y
1:	0.530	-0.046
2:	0.572	0.351
3:	0.563	0.463
4:	-0.376	0.878
5:	-0.350	0.372
6:	-0.260	0.042
7:	-0.258	-0.204
8:	-0.213	-0.376
9:	-0.093	-0.648
10:	0.229	-0.915

X CENTROID: 0.034

Y CENTROID: -0.008

POA TO CENTROID: 0.035

HORZ SPREAD: 0.948

VERT SPREAD: 1.793

GROUP SPREAD: 1.892

MIN RADIUS: 0.299

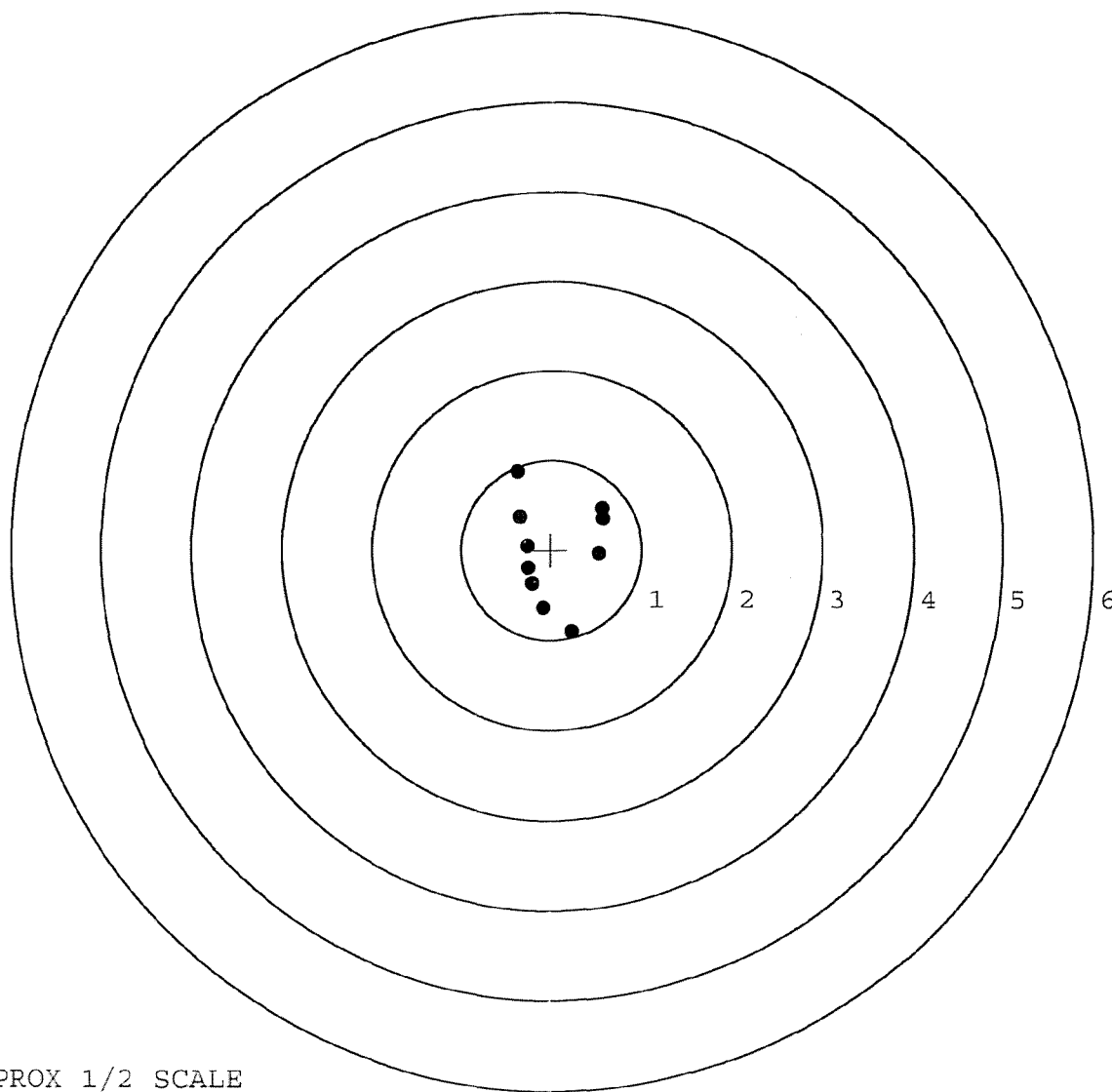
MAX RADIUS: 0.977

MEAN RADIUS: 0.604

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE




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

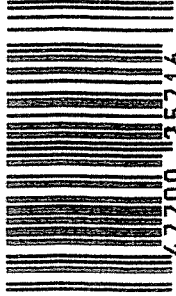
MODEL 700TM H24

SERIAL NO.
C6498847

ORDER NO.
5716

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

UPC



0 47700 25716 7



5716 C6498847

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6498847

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	5 9	90	RW
600	Proof	5 9	90	RW
607	Check Headspace	5 9	90	RW
610	Dis-assemble Gun	5 9	90	RW
612	Magnaflux Barrel Action	5-15-90		KER
	Magnaflux Bolt	5-15-90		KER
615	Rollmark Caliber	5-18-90		18-S
617	Drill and Tap Sight Holes		5/17/90	WB
618	Polish Barrel RB		5/17/90	RB
620	Apply Coatings (Barrel Action)		5-25-90	TA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		5/25/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		5/25/90	RW
	C) Inspect Ejector Hole for Chamfer		5/25/90	RW
	D) Oil Firing Pin Ass'y		5/25/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		6/1/90	RM

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4 1/2	4 1/2	4 1/2			6/4/90	WB
	G) Safety Off Force	2 3/4	2 3/4	2 3/4			6/4/90	WB
	H) Trigger Pull Test & Retainability						6/1/90	ML
	I) Firing Pin Indent	.024	.025	.0245			6/4/90	WB
	J) Assemble Stock						6/4/90	RW
	K) Assemble Swivel Studs						6-6-90	JS
	L) Attach Front and Rear Sight Assemblies						6/4/90	RW
	M) Iron Sight Alignment						6/4/90	RW
	N) Detach Front & Rear Sights & place in numbered container						6/4/90	RW
	O) Attach Scope to Rifle						6/4/90	WB
	P) Detach & Attach Scope 20 Times						6/4/90	WB
640	Gallery Target & Test						6-5-90	AC
	A) Time						6-5-90	AC
	B) Malfunctions						6-5-90	AC
	C) Pierced Primers						6-5-90	AC
	D) Optical Clarity of Scope						6-5-90	AC
645	Inspect for Live Ammo						6-5-90	AC
655	Final Inspection						6-8-90	JS
	A) Headspace						6-6-90	JS
	B) Trigger Pull	245	239	237	240	240	6-6-90	JS
	C) Function						6-6-90	JS
660	Pack						6-19-90	DH

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

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

SERIAL NO. 06498847

DATE 6/1/90

TESTER JRC

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.26	2.19	2.30	2.45	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.24	2.28	2.22	2.39	
PULL #3	2.23	2.17	2.20	2.37	
PULL #4	2.26	2.21	2.26	2.40	
PULL #5	2.19	2.24	2.44	2.40	
TOTAL	11.18	11.08	11.42		
AVG.	2.236	2.216	2.284		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.30	3.29		
PULL #2	3.24	3.33		
PULL #3	3.31	3.23		
PULL #4	3.27	3.31		
PULL #5	3.22	3.30		
TOTAL	16.34	16.46		
AVG.	3.268	3.292		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.38	4.32		4.37
PULL #2	4.18	4.35		4.12
PULL #3	4.40	4.38		4.37
PULL #4	4.42	4.42		4.05
PULL #5	4.42	4.35		4.43
TOTAL	21.80	21.82		21.34
AVG.	4.36	4.364		4.268

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06498847
6 Jun 1990

CENTROIDAL DISTANCES

0 TO	1	.586287
1 TO	2	.219864
1 TO	3	.324778
1 TO	4	.255002
1 TO	5	.763448

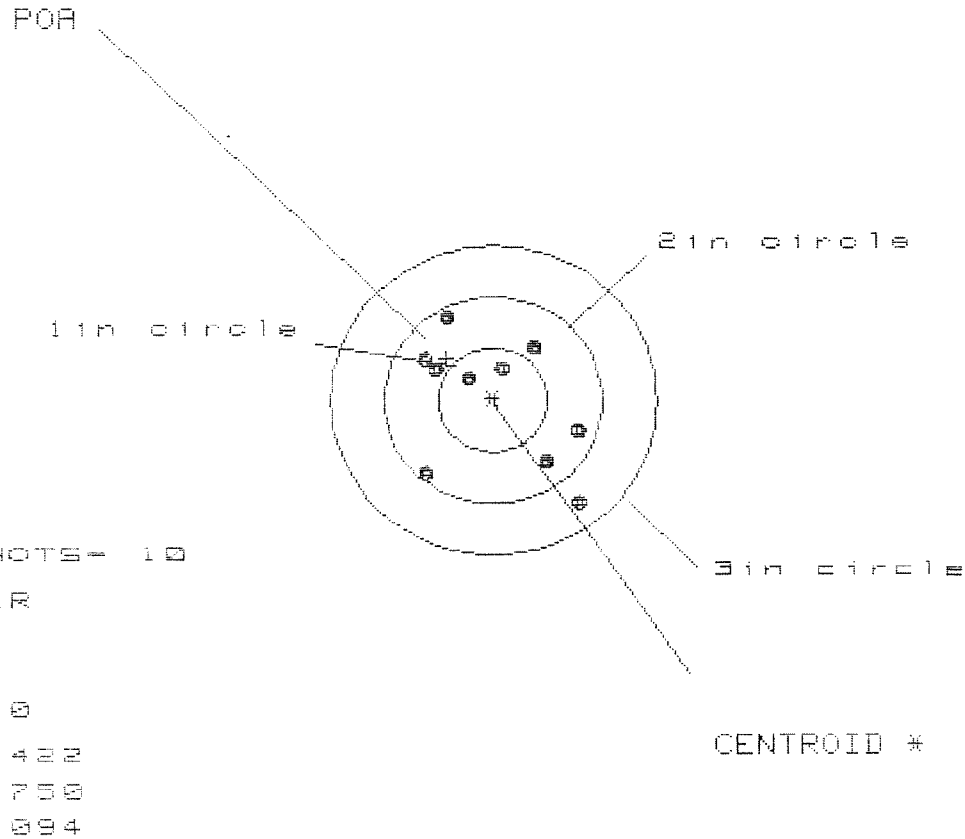
$\frac{5}{13}$ <----FOR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .4804
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.1566
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .50528
THE AMR FOR THIS RIFLE IS: .8042

8 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8498847

CENTERFIRE PATTERNS # 1



PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.757	.841	.768
MINIMUM X	:	-.665	-.581	-.654
MAXIMUM Y	:	.784	.676	.575
MINIMUM Y	:	-.966	-.811	-.810
CENTROID X	:	.422	.338	.411
CENTROID Y	:	-.407	-.299	-.198
POA TO CENTROID in.	:	.586	.452	.456
MIN RADIUS	:	.292	.159	.134
MEAN RADIUS	:	.721	.631	.565
MAX RADIUS	:	1.225	.997	.933
HORIZONTAL SPREAD	:	1.422	1.422	1.422
VERTICAL SPREAD	:	1.750	1.487	1.385
EXTREME SPREAD	:	2.094	1.625	1.625
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		9	
NUMBER IN THREE INCH CIRCLE	=		10	

6 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8498847

CENTERFIRE PATTERNS

2

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS= 10

IN CIR

1 in = 2

2 in = 7

3 in = 10

HS= 1.281

VS= 2.441

GS= 2.443

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.583	.571	.543
MINIMUM X	:	-.698	-.710	-.738
MAXIMUM Y	:	1.126	.980	.863
MINIMUM Y	:	-1.315	-.966	-.844
CENTROID X	:	.626	.638	.666
CENTROID Y	:	-.325	-.179	-.381
POA TO CENTROID in.	:	.705	.663	.731
MIN RADIUS	:	.296	.161	.261
MEAN RADIUS	:	.800	.718	.687
MAX RADIUS	:	1.319	1.122	1.003
HORIZONTAL SPREAD	:	1.281	1.281	1.281
VERTICAL SPREAD	:	2.441	1.946	1.707
EXTREME SPREAD	:	2.443	2.102	1.769
NUMBER IN ONE INCH CIRCLE =			2	
NUMBER IN TWO INCH CIRCLE =			7	
NUMBER IN THREE INCH CIRCLE =			10	

6 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6498847

CENTERFIRE PATTERNS

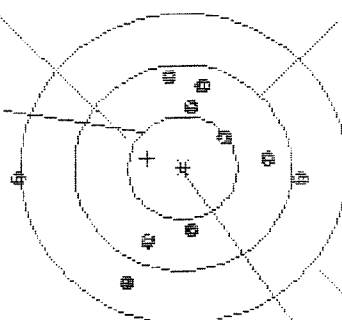
3

POA

1 in circle

2 in circle

3 in circle



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 7

3 in = 9

HS= 2.583

VS= 1.903

GS= 2.583

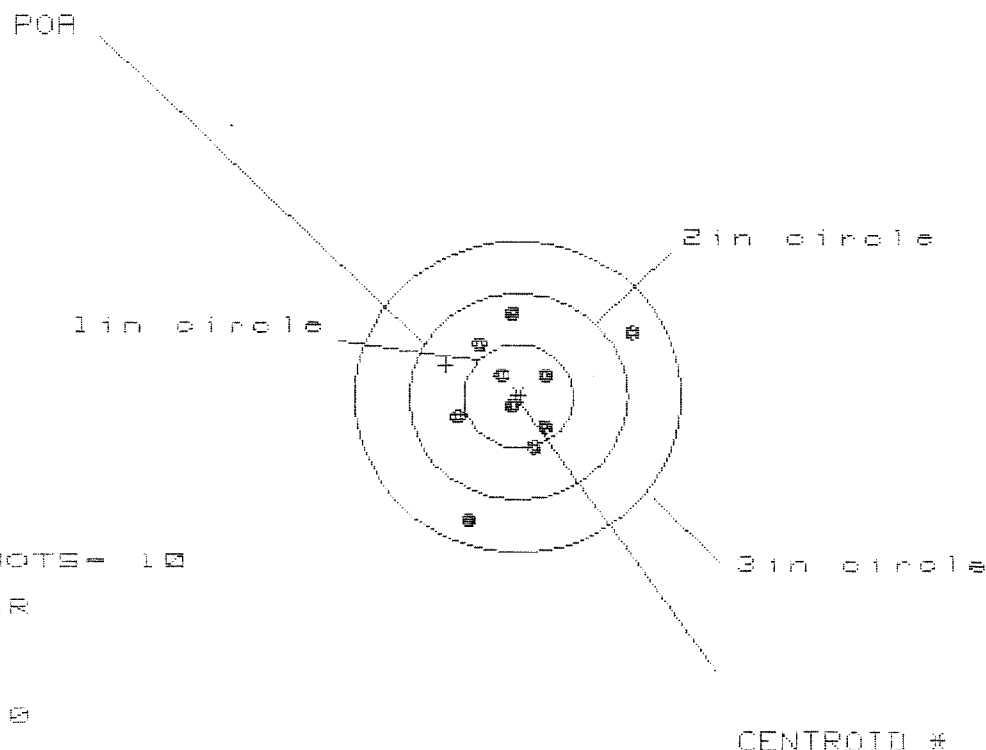
CENTROID #

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.031	.859	.769
MINIMUM X	:	-1.552	-.721	-.605
MAXIMUM Y	:	.851	.842	.709
MINIMUM Y	:	-1.052	-1.061	-.846
CENTROID X	:	.322	.494	.584
CENTROID Y	:	-.098	-.089	.044
POA TO CENTROID in.	:	.336	.502	.586
MIN RADIUS	:	.489	.353	.195
MEAN RADIUS	:	.875	.769	.667
MAX RADIUS	:	1.554	1.283	1.040
HORIZONTAL SPREAD	:	2.583	1.580	1.374
VERTICAL SPREAD	:	1.903	1.903	1.555
EXTREME SPREAD	:	2.583	1.999	1.602
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	

8 Jun 1980

FILE:/PATTERNING/CENTERFIRE_PATT/C8436847

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1 in = 4

2 in = 8

3 in = 10

HS= 1.577

VS= 2.079

GS= 2.312

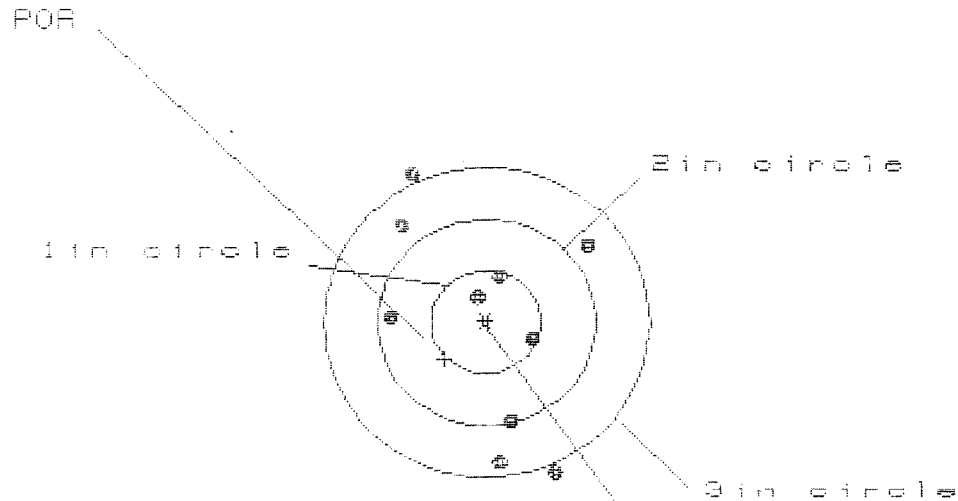
CENTROID #

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.037	.992	.345
MINIMUM X	:	-.540	-.585	-.461
MAXIMUM Y	:	.855	.719	.775
MINIMUM Y	:	-1.224	-.636	-.580
CENTROID X	:	.657	.702	.578
CENTROID Y	:	-.308	-.172	-.228
POR TO CENTROID in.	:	.726	.723	.622
MIN RADIUS	:	.073	.210	.130
MEAN RADIUS	:	.620	.551	.462
MAX RADIUS	:	1.290	1.087	.776
HORIZONTAL SPREAD	:	1.577	1.577	.806
VERTICAL SPREAD	:	2.079	1.355	1.355
EXTREME SPREAD	:	2.312	1.777	1.364
NUMBER IN ONE INCH CIRCLE	=		4	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		10	

8 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6436847

CENTERFIRE PATTERNS # 5



OF SHOTS = 10

IN CIP

1 in = 2

2 in = 5

3 in = 8

HSI = 1.773

VS = 2.853

GS = 3.141

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.880	.951	.875
MINIMUM X	:	-.893	-.822	-.898
MAXIMUM Y	:	1.411	1.251	.985
MINIMUM Y	:	-1.442	-1.487	-1.330
CENTROID X	:	.375	.304	.380
CENTROID Y	:	.355	.516	.359
POB TO CENTROID (in.)	:	.517	.599	.523
MIN RADIUS	:	.260	.085	.259
MEAN RADIUS	:	1.005	.913	.862
MAX RADIUS	:	1.576	1.497	1.334
HORIZONTAL SPREAD	:	1.773	1.773	1.773
VERTICAL SPREAD	:	2.853	2.738	2.315
EXTREME SPREAD	:	3.141	2.848	2.479
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		8	