



C6349203



FOR
76

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5715**

*Includes 1 in chamber.



M2400110149

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6349203.__0
FILE DATE AND TIME: 04/14/2005 06:57

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.098
The Average Y Centroid of the Five Target Set:	-0.078
The Average Point of Impact of the Five Target Set:	0.125
The Average Mean Radius of the Five Target Set:	1.027
The Distance from POA to Centroid Target #1:	0.513
The Distance from Centroid Target #2 to Centroid Target #1:	0.807
The Distance from Centroid Target #3 to Centroid Target #1:	0.417
The Distance from Centroid Target #4 to Centroid Target #1:	0.837
The Distance from Centroid Target #5 to Centroid Target #1:	0.334

SERIAL NUMBER: C6349203. __0

TARGET NUMBER: 1

FILE DATE: 04/14/2005

FILE TIME: 06:57

POINT#	X	Y
1:	1.330	-1.600
2:	0.892	-0.277
3:	0.223	0.018
4:	-0.300	0.028
5:	-0.914	-0.453
6:	0.056	1.120
7:	-0.235	0.854
8:	-0.062	-1.431
9:	-0.562	-1.338
10:	-0.113	-2.041

X CENTROID: 0.031

Y CENTROID: -0.512

POA TO CENTROID: 0.513

HORZ SPREAD: 2.244

VERT SPREAD: 3.161

GROUP SPREAD: 3.004

MIN RADIUS: 0.564

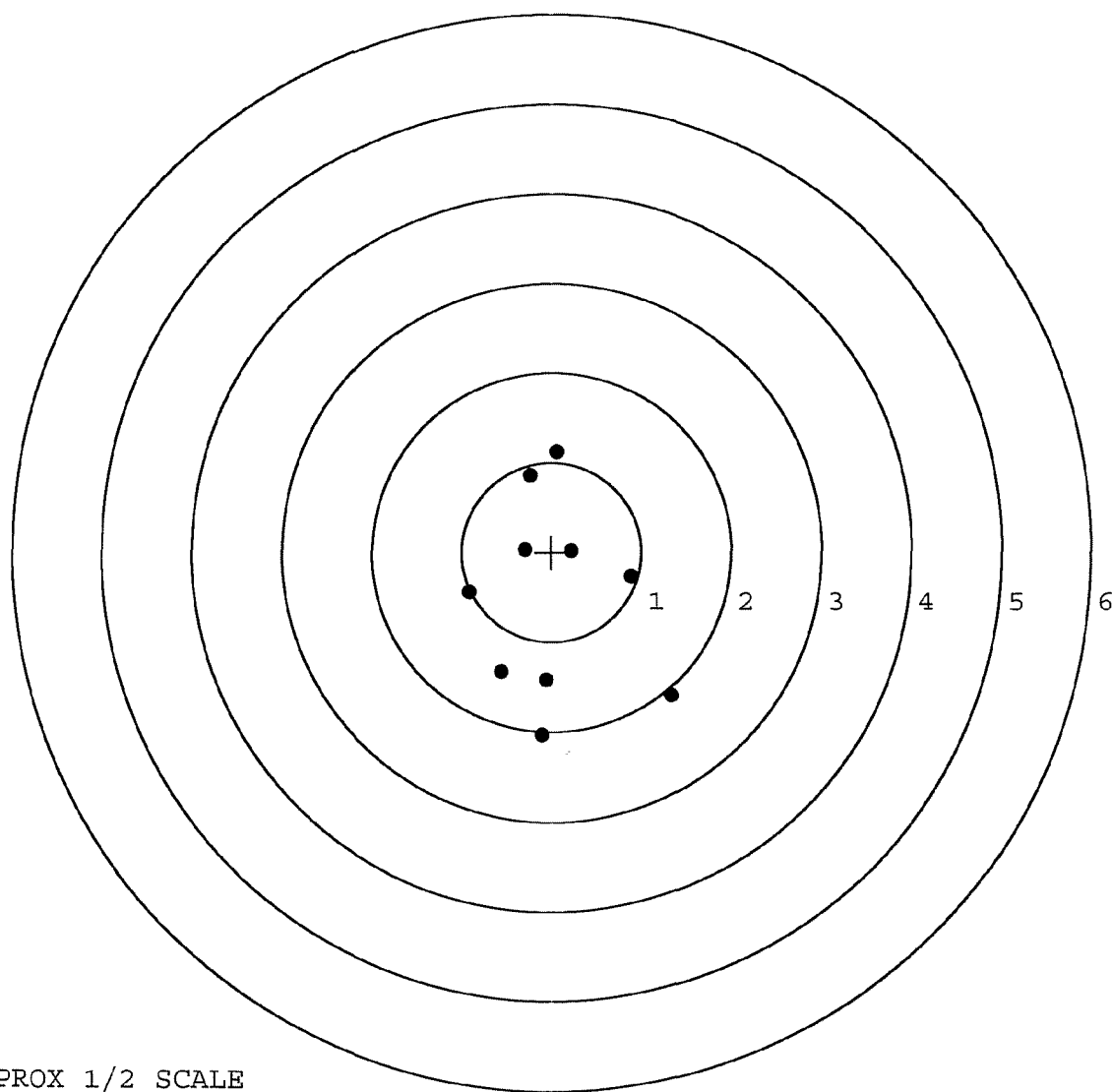
MAX RADIUS: 1.694

MEAN RADIUS: 1.123

IN 1 IN DIAMETER: 0

IN 2 IN DIAMETER: 5

in 3 IN DIAMETER: 7



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349203. __0

TARGET NUMBER: 2

FILE DATE: 04/14/2005

FILE TIME: 06:57

X CENTROID: -0.092

Y CENTROID: 0.285

POA TO CENTROID: 0.300

HORZ SPREAD: 1.668

VERT SPREAD: 2.873

GROUP SPREAD: 3.207

MIN RADIUS: 0.643

MAX RADIUS: 1.931

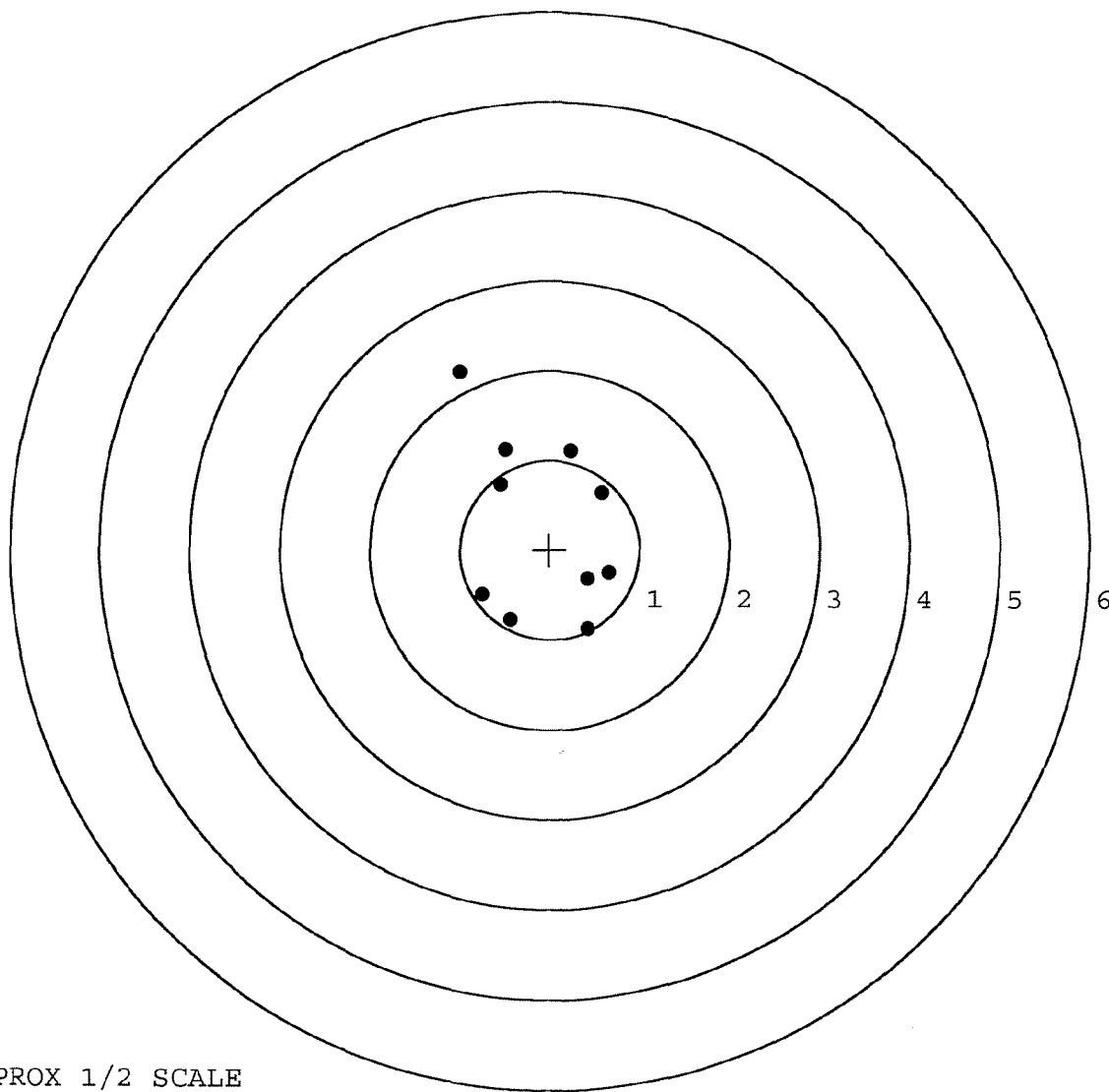
MEAN RADIUS: 1.031

IN 1 IN DIAMETER: 0

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 9

POINT#	X	Y
1:	0.665	-0.255
2:	0.421	-0.321
3:	0.423	-0.885
4:	-0.444	-0.785
5:	-0.754	-0.499
6:	0.586	0.641
7:	0.234	1.111
8:	-0.496	1.123
9:	-0.550	0.736
10:	-1.003	1.988

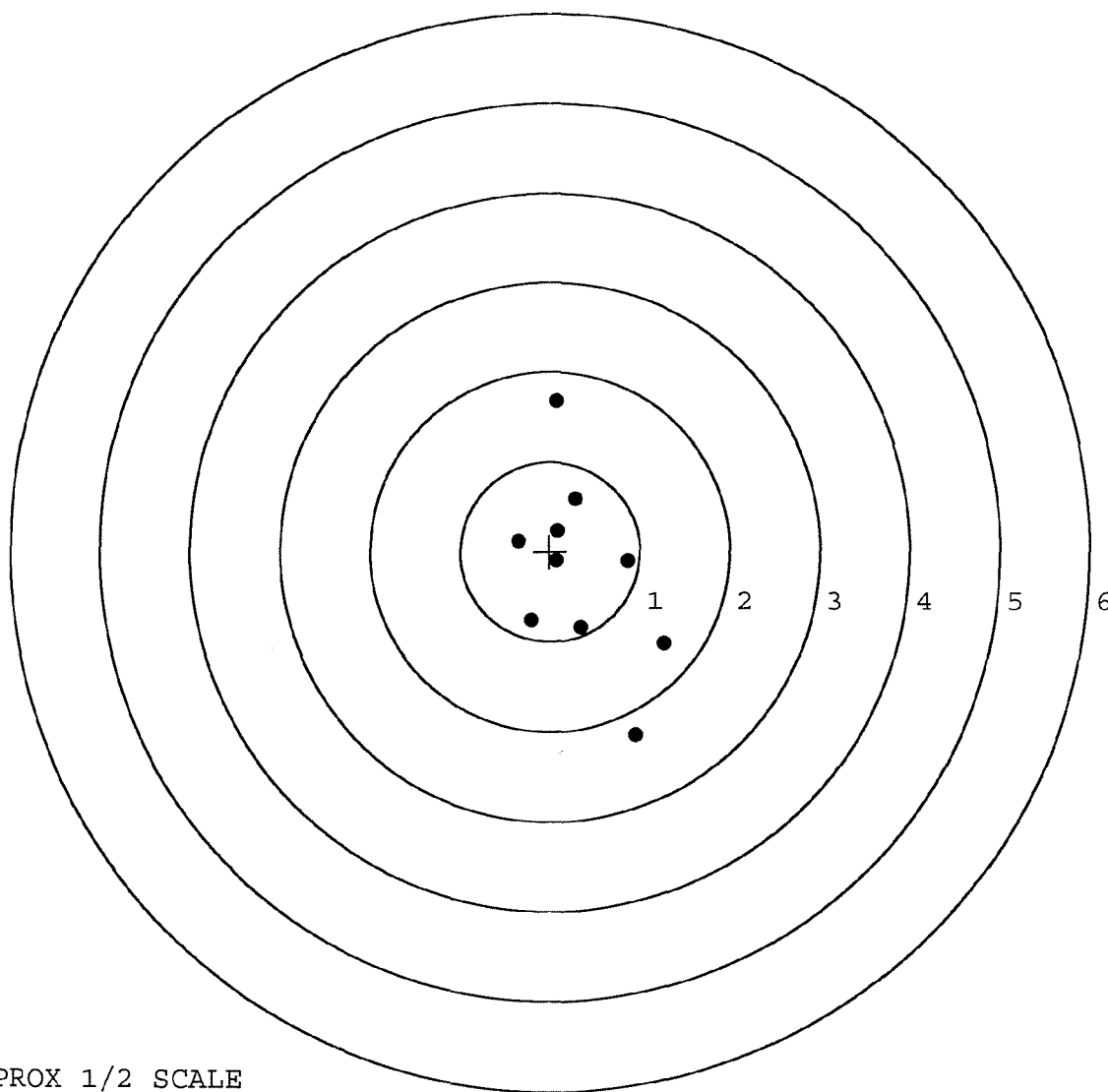


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349203. __0
TARGET NUMBER: 3
FILE DATE: 04/14/2005
FILE TIME: 06:57

X CENTROID: 0.338
Y CENTROID: -0.230
POA TO CENTROID: 0.409
HORZ SPREAD: 1.615
VERT SPREAD: 3.714
GROUP SPREAD: 3.817
MIN RADIUS: 0.292
MAX RADIUS: 1.921
MEAN RADIUS: 0.940
IN 1 IN DIAMETER: 1
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 8

POINT#	X	Y
1:	0.956	-2.041
2:	1.261	-1.031
3:	0.345	-0.848
4:	0.867	-0.111
5:	-0.213	-0.771
6:	0.074	1.673
7:	0.286	0.589
8:	0.075	-0.102
9:	-0.354	0.119
10:	0.085	0.227



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349203. __0

TARGET NUMBER: 4

FILE DATE: 04/14/2005

FILE TIME: 06:57

POINT#	X	Y
1:	1.172	0.392
2:	1.511	1.237
3:	0.386	0.500
4:	0.107	0.107
5:	0.071	-0.215
6:	-0.404	-0.411
7:	-0.698	-0.703
8:	-0.797	-0.792
9:	-0.746	1.547
10:	-0.948	1.559

X CENTROID: -0.035

Y CENTROID: 0.322

POA TO CENTROID: 0.324

HORZ SPREAD: 2.459

VERT SPREAD: 2.351

GROUP SPREAD: 3.073

MIN RADIUS: 0.258

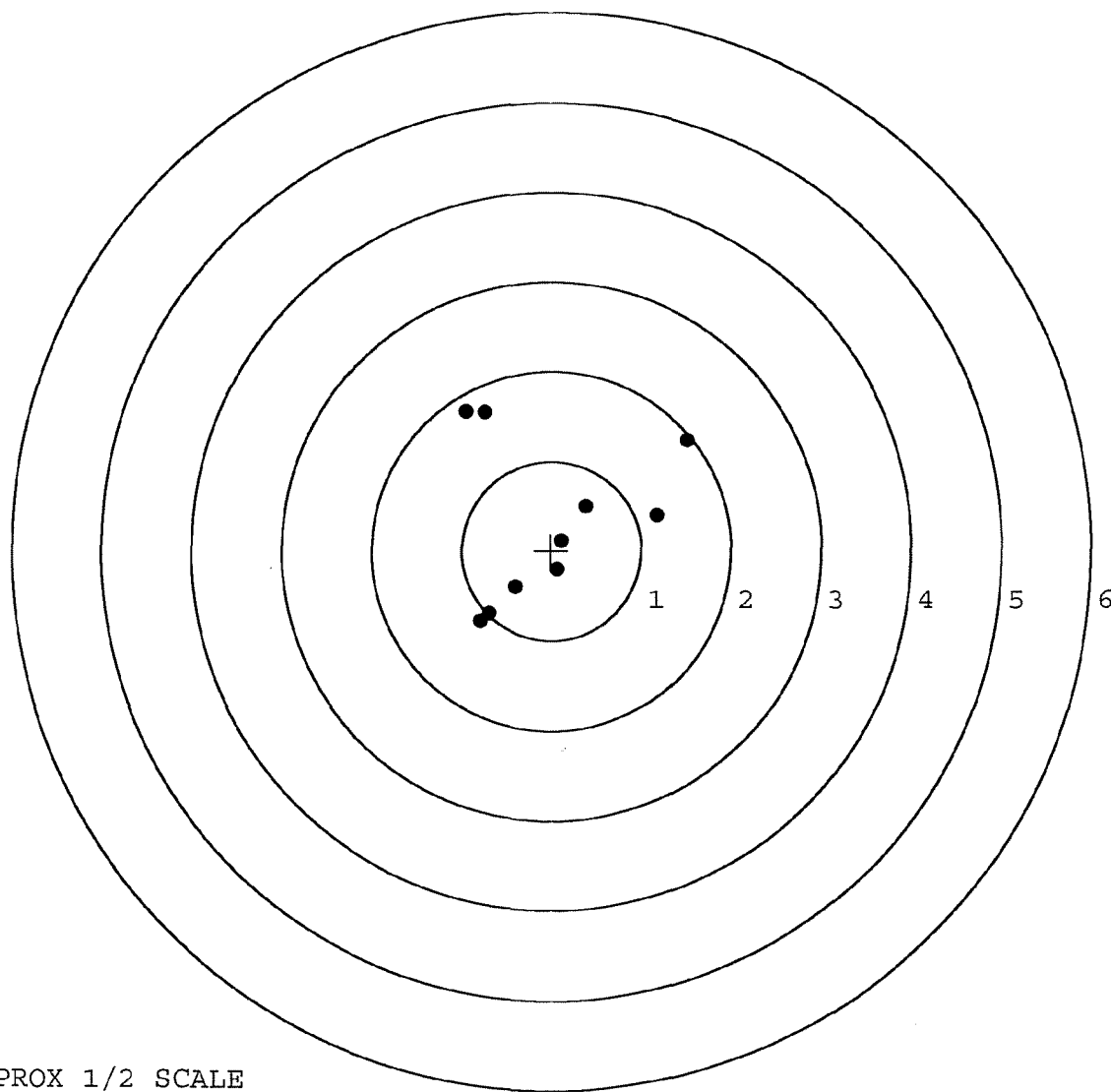
MAX RADIUS: 1.796

MEAN RADIUS: 1.061

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 4

in 3 IN DIAMETER: 8



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349203. __0

TARGET NUMBER: 5

FILE DATE: 04/14/2005

FILE TIME: 06:57

POINT#	X	Y
1:	0.914	-1.515
2:	1.208	-0.995
3:	0.569	-1.362
4:	0.151	-0.697
5:	-0.482	-0.616
6:	0.747	0.158
7:	0.088	0.203
8:	0.137	0.609
9:	-0.772	0.460
10:	-0.107	1.207

X CENTROID: 0.245

Y CENTROID: -0.255

POA TO CENTROID: 0.354

HORZ SPREAD: 1.980

VERT SPREAD: 2.722

GROUP SPREAD: 2.907

MIN RADIUS: 0.452

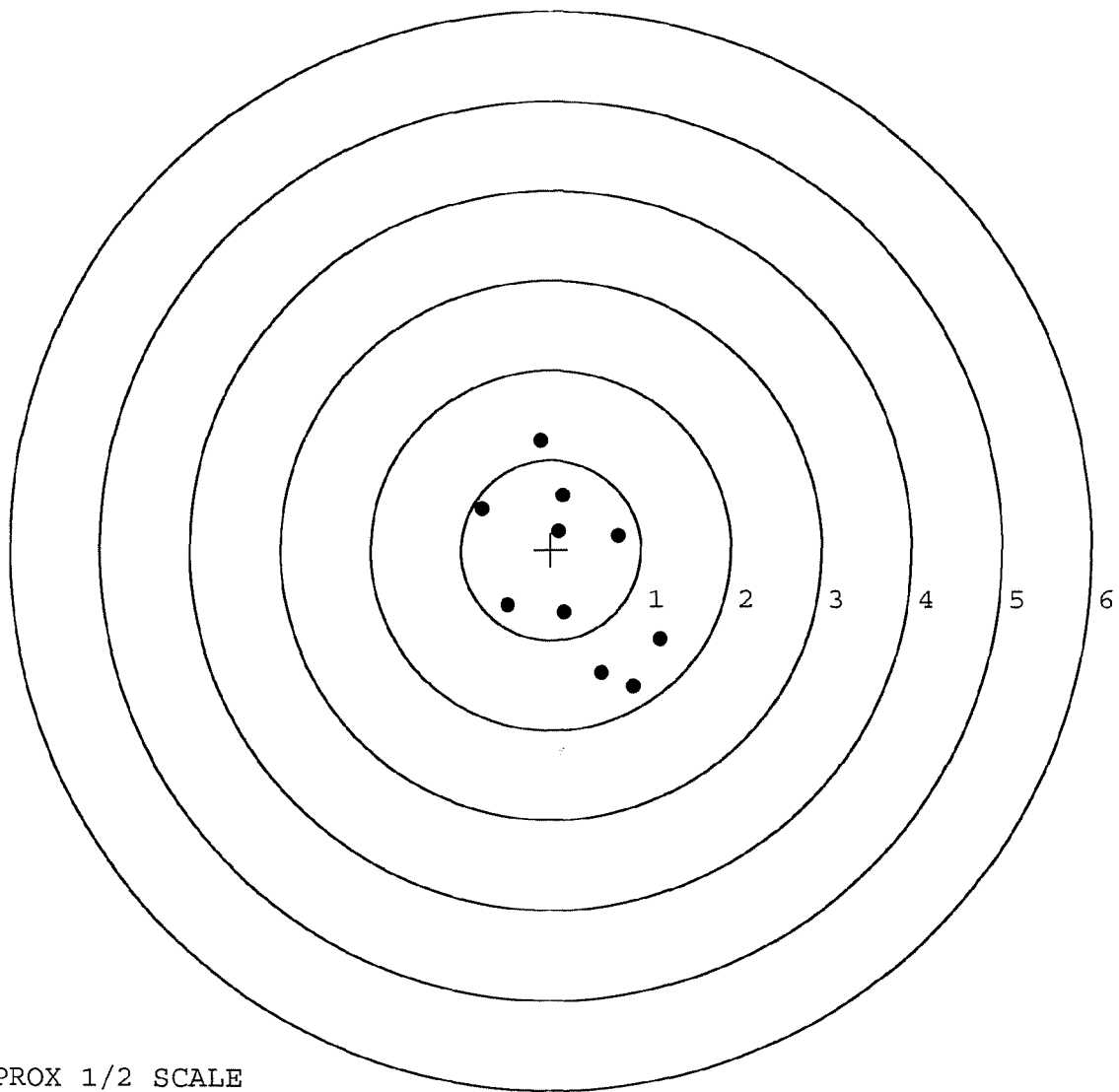
MAX RADIUS: 1.504

MEAN RADIUS: 0.981

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 5

in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

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

R & E NUMBER	92547		
SERIAL NUMBER	C6349203		
LOG-IN DATE	2-7-05		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	3-14-05	RTL
560 A	RE-BARREL	3-17-05	RTL
B	DRILL AND TAP	3-21-05	TRW
575	ASSEMBLE	3-18-05	RTL
600	PROOF	3-21-05	AC
605	CHECK HEADSPACE	3-21-05	AC
610	DIS-ASSEMBLE GUN	3-21-05	RTL
612	MAGNAFLUX	3-21-05	AC
615	ROLLMARK CALIBER	3-23-05	CW
618	ROTO-BLAST	3/29	SW
620	APPLY COATINGS	4/5	HO
625 A	FINAL ASSEMBLY	4-13-05	RTL
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE	4-19-05	AC
D	SAFETY "OFF" FORCE	4-19-05	AC
E	FIRING PIN INDENT	4-19-05	AC
640	TARGET	4-14-05	TRW
655	FINAL INSPECT	4-19-05	AC
660	PACK	4-20-05	DA
		SHIP DATE	
		QAR INSPECTION DATE	

RECEIVING AND ESTIMATING REPORT

COMMENTS

ORDER
R 99-15264INITIAL
SWS
CUSTOMER ORDER NO.
W90PER92154012

ATTN PAMELA OCHS

DATE RECEIVED	DATE OPENED	DATE CODE	SERIAL NUMBER	NEW SERIAL NUMBER	MODEL AND GRADE
08/04/99	08/09/99	CK 4/90	C6349203		700 7.62N SWS
ACCESSORIES HARD CASE SCOPE BASE					

FROM:

PR C CO 1 16 INF
CPR BLDG 7920
FT RIELY

KS 66442

SHIP TO:

PR C CO 1 16 INF
CPR BLDG 7920
FT RIELYKS
66442

CUST NO: 213006 C.O.D

ACCOUNT NUMBER

ACCOUNT NUMBER N/C

WRITE ☐

PROM. DATE

ESTIMATED

VIA

UPS

GUN CONDITION

- ☐ NEW
☐ LIGHTLY WORN
☐ WORN
☐ VERY WORN
☐ UNREPAIRABLE
☐ MARRED

REPAIR CHARGE

EXCISE

TAX

INSURANCE

UPS

PARCEL POST

TOTAL

CUSTOMER CONCERN	AMMO	FUNCTION	FINISH	ACCURACY	FIT	INSPECT
------------------	------	----------	--------	----------	-----	---------

CYCLE	A1	B1				
TRIGGER GROUP		B2			E1	F1
BOLT ASSY.		B3			E2	F2
BARREL ASSY.		B4		D1	E3	F3
REC. ASSY.		B5		D2	E4	F4
WOOD			C1	D3	E5	F5
METAL			C2			

MAIN FAULT

PARTS

COMMENTS

Barrel 1
stock 96003
96018

REPAIRMAN	PROOF	CLEAN	TEST	TARGET	PATTERN
-----------	-------	-------	------	--------	---------

GALLERY TESTER	DATE	DATE	DATE	DATE	DATE
----------------	------	------	------	------	------

RW

✓

✓

✓

✓

RW

9-2-99

9-8-99

9-8-99

OFFICE COPY

RD6025 REV. 7/97

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

M2400110158

Nagle, Thomas J.

From: Ochs, Pamela J [SMTP:OchsP@ria.army.mil]
Sent: Wednesday, August 04, 1999 10:12 AM
To: 'Nagle, Thomas J.'
Subject: RE: SWS Repair

Tom

Please ship serial number C6349203.

Repair Document Number: W52H09 9216 H259

Requisition Number : W90PER 9215 4012

Address:

PR C CO 1 16 Inf
CPR BLDG 7920
Ft. Riley KS 66442-5936

~~Pamela Ochs
AMSTA LC-CMI-D
DSN 793-2855~~

-----Original Message-----

From: Nagle, Thomas J. [mailto:nagletj@remington.com]
Sent: Monday, August 02, 1999 12:17 PM
To: 'Ochs, Pamela J'
Subject: SWS Repair

Pam,

Per our conversation of today, I have the following SWS that I need an address for.

The item was returned from Ft. Riley, KS and the serial number is C6349203. The paperwork has the POC as Spc. Irwin. I don't have enough information to enter it into our database because of an incomplete return address.

Please issue Field Requisition numbers and Repair Document Numbers too.

Thanks,
Tom

Remington Test Lab, Ilion, N.Y.

Centroidal distance calculations for Rifle # c6349203

9 Sep 1999

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0244

THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.1968

THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .198307

THE AMR FOR THIS RIFLE IS: 1.207

CENTROIDAL DISTANCES

0	TO	1	.155467
1	TO	2	.176409
1	TO	3	.574913
1	TO	4	.112272
1	TO	5	.180887

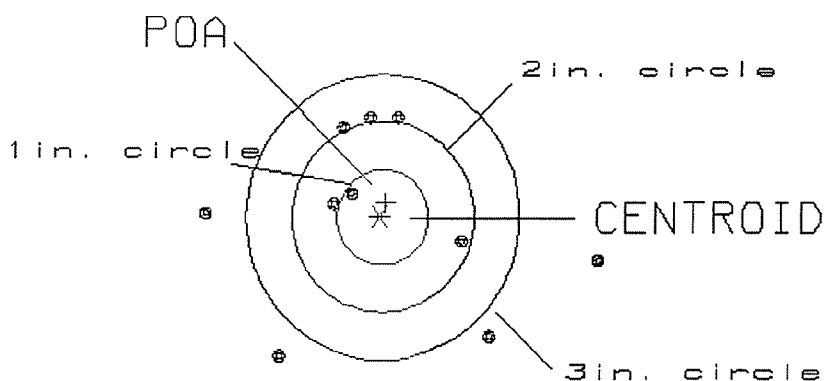
$\frac{241}{5}^+$ <----POA
3

PATTERN #: ☐ 1 ☐
 POA TO CENTROID: .156
 MIN RADIUS : .413
 MEAN RADIUS : 1.275
 MAX RADIUS : 2.370
 CENTROID X : -.061
 CENTROID Y : -.143

9 Sep 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6349203

CENTERFIRE PATTERN # 1



OF SHOTS= 10

IN CIRCLE

HS= 4.24
 VS= 2.46
 GS= 4.27

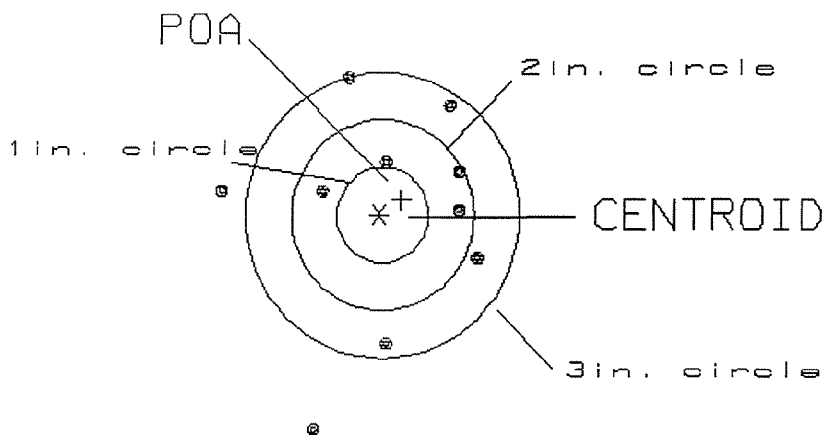
1
 3
 6

PATTERN #: ☐ 2 ☐
 POA TO CENTROID: .283
 MIN RADIUS : .506
 MEAN RADIUS : 1.249
 MAX RADIUS : 2.338
 CENTROID X : -.237
 CENTROID Y : -.155

9 Sep 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6349283

CENTERFIRE PATTERN # 2



OF SHOTS= 10

IN CIRCLE

HS= 2.79

0

VS= 3.66

4

GS= 3.69

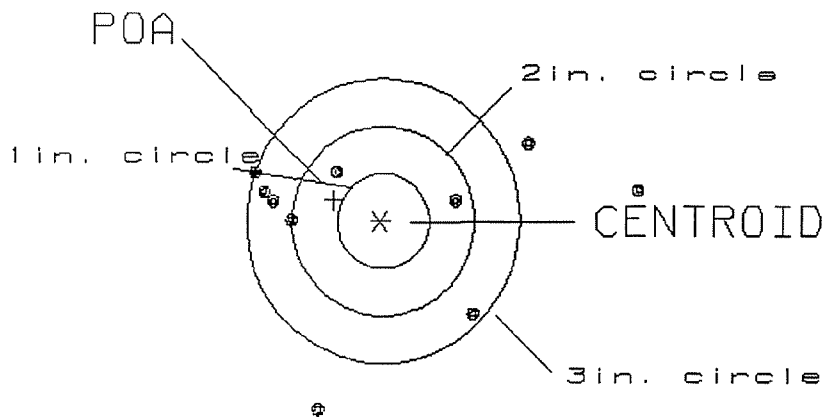
8

PATTERN #: ☐ 3 ☐
 POA TO CENTROID: .554
 MIN RADIUS : .675
 MEAN RADIUS : 1.486
 MAX RADIUS : 2.817
 CENTROID X : .509
 CENTROID Y : -.218

9 Sep 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6349203

CENTERFIRE PATTERN # 3



OF SHOTS= 10

IN CIRCLE

HS= 4.26

0

VS= 2.77

2

GS= 4.26

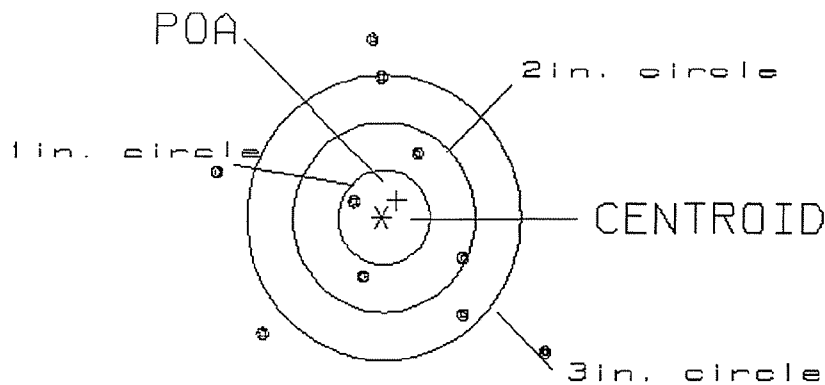
6

PATTERN #: ☐ 4 ☐
 POA TO CENTROID: .244
 MIN RADIUS : .379
 MEAN RADIUS : 1.330
 MAX RADIUS : 2.257
 CENTROID X : -.168
 CENTROID Y : -.177

9 Sep 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6349203

CENTERFIRE PATTERN # 4



OF SHOTS= 10

IN CIRCLE

HS= 3.54
 VS= 3.29
 GS= 4.03

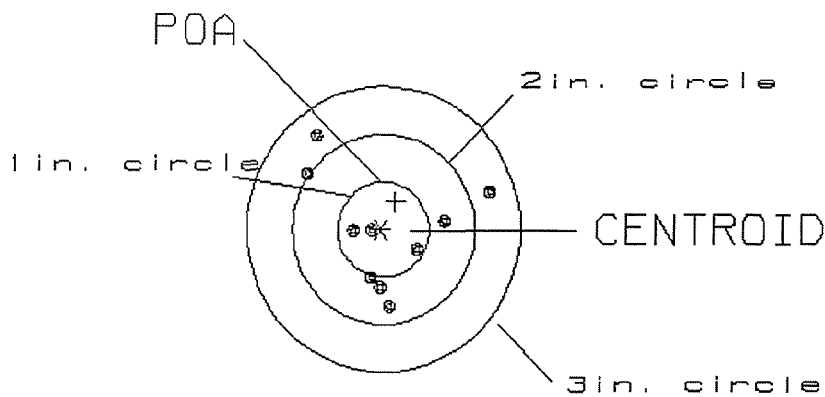
1
 4
 6

PATTERN #: ☐ 5 ☐
 POA TO CENTROID: .334
 MIN RADIUS : .146
 MEAN RADIUS : .693
 MAX RADIUS : 1.221
 CENTROID X : -.165
 CENTROID Y : -.291

9 Sep 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6349203

CENTERFIRE PATTERN # 5



OF SHOTS= 10

IN CIRCLE

HS= 2.00

4

VS= 1.84

7

GS= 2.01

10

21 DAY TURN - AROUND

M-24

CONTRACT # DAAA09-92-C-0834

R&E NO.

SERIAL NO.

C6349503

LOG IN DATE: / /		DATE	INIT.
INSPECT & VERIFY:			
OP. #	OP. NAME		
550	DIS-ASSEMBLE GUN	8-14-99	CW
560 A	RE-BARREL AT CUSTOM SHOP		
B	DRILL & TAP		
C	POLISH		
575	ASSEMBLE		
600	PROOF	8-17-99	RW
605	CHECK HEADSPACE	8-17-99	RW
610	DIS-ASSEMBLE		
612	MAGNAFLUX	8-17-99	
615	ROLLMARK CALIBER		
618	ROTO-BLAST		
620	APPLY COATINGS		
625 A	FINAL ASSEMBLY		
B	TRIGGER PULL TEST		
C	SAFETY ON FORCE		
D	SAFETY OFF FORCE		
E	FIRING PIN INDENT		
640	TARGET	9-8-99	RW
655	FINAL INSPECT	9-10-99	RW
660	PACK		

QAR INSPECTION

SHIP DATE

Final Inspection

Sni: C6349203

DATE REC'D: 8-4-99

DATE RET'D:

Auditor: RW

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: _____



MODEL 700™ H24

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

01

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

SERIAL NO.	C6349203
ORDER NO.	5716



5716 C6349203

UPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6349203

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	3 31	90	RW
600	Proof	3 31	90	RW
607	Check Headspace	3 31	90	RW
610	Dis-assemble Gun	3 31	90	RW
612	Magnaflux Barrel Action	4-2-90		KER
	Magnaflux Bolt	4-2-90		KER
615	Rollmark Caliber	4-2-90		LS
617	Drill and Tap Sight Holes		4/4/90	FB
618	Polish Barrel RB		4/5/90	WB
620	Apply Coatings (Barrel Action)		4-9-90	JA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		4/18/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		4/18/90	RW
	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		5/4/90	HL

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4		4		4	5/4/90	RL
	G) Safety Off Force	3		3		3	5/4/90	RL
	H) Trigger Pull Test & Retainability						5/4/90	M
	I) Firing Pin Indent	.021		.021		.0215	5/4/90	M
	J) Assemble Stock						5/5/90	RW
	K) Assemble Swivel Studs						5/8/90	WB
	L) Attach Front and Rear Sight Assemblies						5/7/90	RW
	M) Iron Sight Alignment						5/7/90	RW
	N) Detach Front & Rear Sights & place in numbered container						5/7/90	RW
	O) Attach Scope to Rifle						5/7/90	RL
	P) Detach & Attach Scope 20 Times						5/7/90	RL
640	Gallery Target & Test						5-7-90	DH
	A) Time						5-7-90	DH
	B) Malfunctions						5-7-90	DH
	C) Pierced Primers						5-7-90	DH
	D) Optical Clarity of Scope						5-7-90	DH
645	Inspect for Live Ammo						5-7-90	DH
655	Final Inspection						5/8/90	WB
	A) Headspace							
	B) Trigger Pull	2.38	2.42	2.39	2.41	2.39	5/7/90	WB
	C) Function						5/8/90	WB
660	Pack						6/19/90	DH

SWS TRIGGER PULL TEST

STAG

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

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

SERIAL NO. C6349203

DATE 5/4/90

TESTER gfl

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.49	2.52	2.30	2.38	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.43	2.48	2.24	2.42	
PULL #3	2.43	2.41	2.28	2.39	
PULL #4	2.51	2.45	2.22	2.41	
PULL #5	2.47	2.52	2.25	2.39	
TOTAL	12.33	12.38	11.29		
AVG.	2.466	2.476	2.258		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.42	3.35		
PULL #2	3.47	3.31		
PULL #3	3.47	3.37		
PULL #4	3.35	3.37		
PULL #5	3.39	3.41		
TOTAL	17.10	16.81		
AVG.	3.42	3.362		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.22	4.42		4.22
PULL #2	4.19	4.45		4.30
PULL #3	4.46	4.47		4.22
PULL #4	4.43	4.45		4.27
PULL #5	4.46	4.50		4.29
TOTAL	21.76	22.29		21.30
AVG.	4.352	4.458		4.26

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6349283
7 May 1990

CENTROIDAL DISTANCES

0 TO	1	.0577062
1 TO	2	.510633
1 TO	3	.326098
1 TO	4	.353638
1 TO	5	.133724

avg <----POA

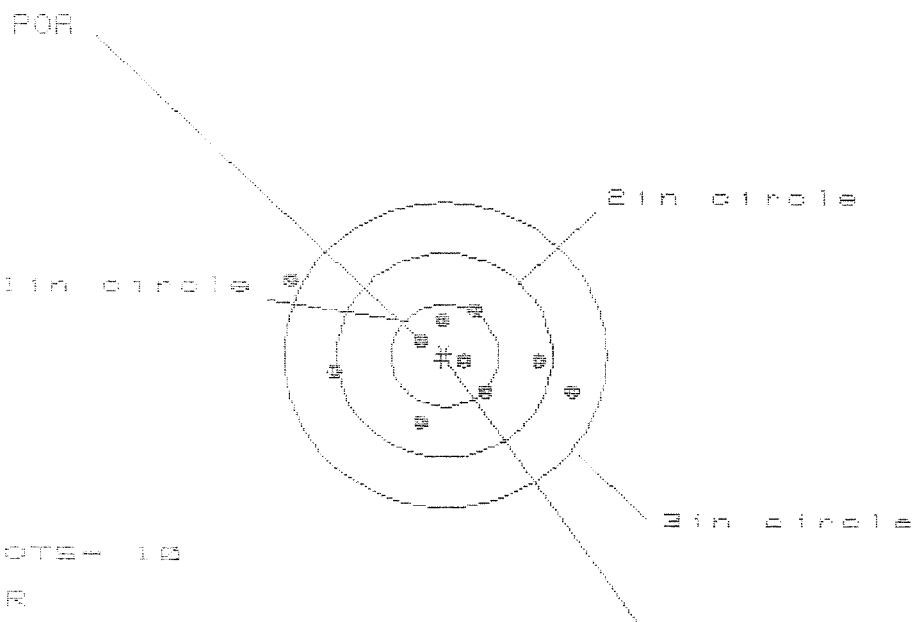
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .1214
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.1418
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .186889
THE AMR FOR THIS RIFLE IS: .689

7 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C0349203

CENTERFIRE PATTERNS

1



OF SHOTS- 10

IN CIR

1 in = 3

2 in = 8

3 in = 9

100 = 0.0001

200 = 1.485

300 = 0.0000

CENTROID #

PATTERN #



SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.138	.978	.887
MINIMUM X	-1.443	-1.143	-1.021
MAXIMUM Y	.786	.561	.524
MINIMUM Y	-.699	-.612	-.549
CENTROID X	.027	.187	.065
CENTROID Y	.051	-.036	.001
POR TO CENTROID in.	.058	.191	.065
MIN RADIUS	.196	.029	.146
MEAN RADIUS	.742	.615	.569
MAX RADIUS	1.643	1.147	1.029
HORIZONTAL SPREAD	2.581	2.121	1.828
VERTICAL SPREAD	1.485	1.173	1.173
EXTREME SPREAD	2.833	2.131	1.830
NUMBER IN ONE INCH CIRCLE	=	3	
NUMBER IN TWO INCH CIRCLE	=	8	
NUMBER IN THREE INCH CIRCLE	=	9	

7 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06349203

CENTERFIRE PATTERNS # 2

POR

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS - 10

IN CIE

1 in = 3

2 in = 0

3 in = 0

HEI 1.000

VSE 2.051

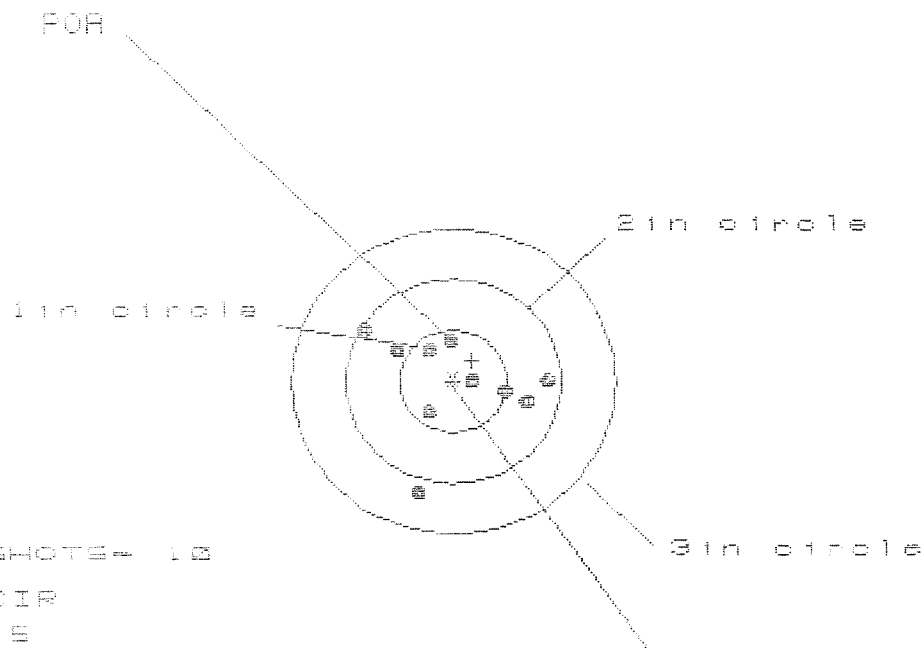
GSE 2.299

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.921	.690	.765
MINIMUM X	:	-.947	-.845	-.759
MAXIMUM Y	:	.835	.700	.478
MINIMUM Y	:	-1.216	-.616	-.529
CENTROID X	:	.338	.236	.150
CENTROID Y	:	-.354	-.219	-.306
POR TO CENTROID in.	:	.490	.322	.341
MIN RADIUS	:	.299	.143	.141
MEAN RADIUS	:	.727	.611	.550
MAX RADIUS	:	1.525	.983	.847
HORIZONTAL SPREAD	:	1.868	1.535	1.524
VERTICAL SPREAD	:	2.051	1.316	1.007
EXTREME SPREAD	:	2.299	1.835	1.631
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		9	

7 May 1988

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CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 5

2in = 8

3in = 10

HS= 1.607

VS= 1.585

QS= 1.670

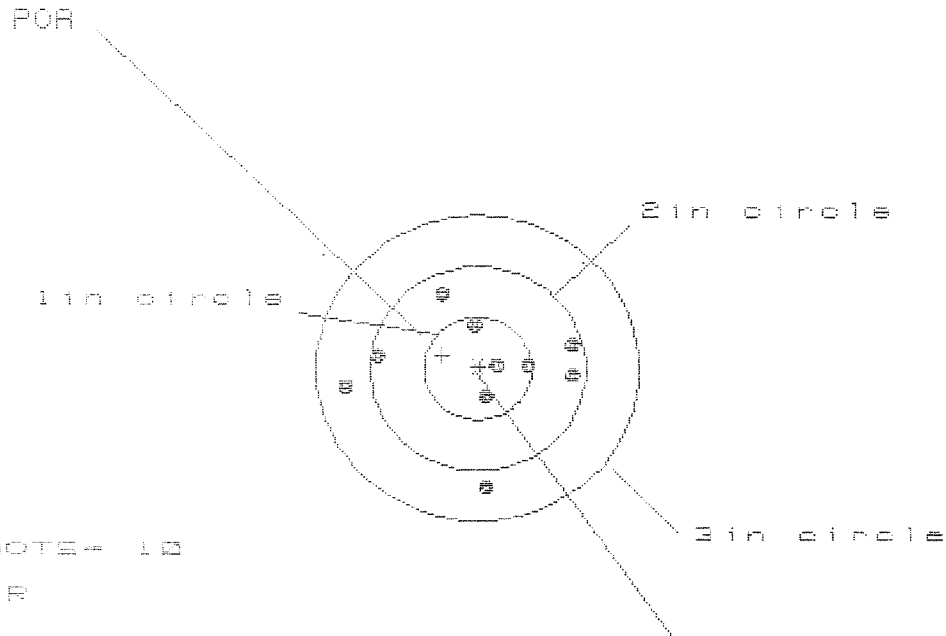
CENTROID #

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.827	.788	.686
MINIMUM X	:	-.780	-.819	-.662
MAXIMUM Y	:	.502	.381	.370
MINIMUM Y	:	-1.083	-.439	-.391
CENTROID X	:	-.175	-.136	-.034
CENTROID Y	:	-.205	-.084	-.132
POR TO CENTROID in.	:	.269	.160	.136
MIN RADIUS	:	.216	.229	.124
MEAN RADIUS	:	.617	.546	.488
MAX RADIUS	:	1.138	.903	.715
HORIZONTAL SPREAD	:	1.607	1.607	1.348
VERTICAL SPREAD	:	1.585	.820	.761
EXTREME SPREAD	:	1.670	1.670	1.380
NUMBER IN ONE INCH CIRCLE	=		5	
NUMBER IN TWO INCH CIRCLE	=		9	
NUMBER IN THREE INCH CIRCLE	=		10	

7 May 1998

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CENTERFIRE PATTERNS # 4



OF SHOTS = 10
 # IN CIR
 1in = 4
 2in = 8
 3in = 10
 HS = 0.000
 VS = 1.864
 GS = 2.000

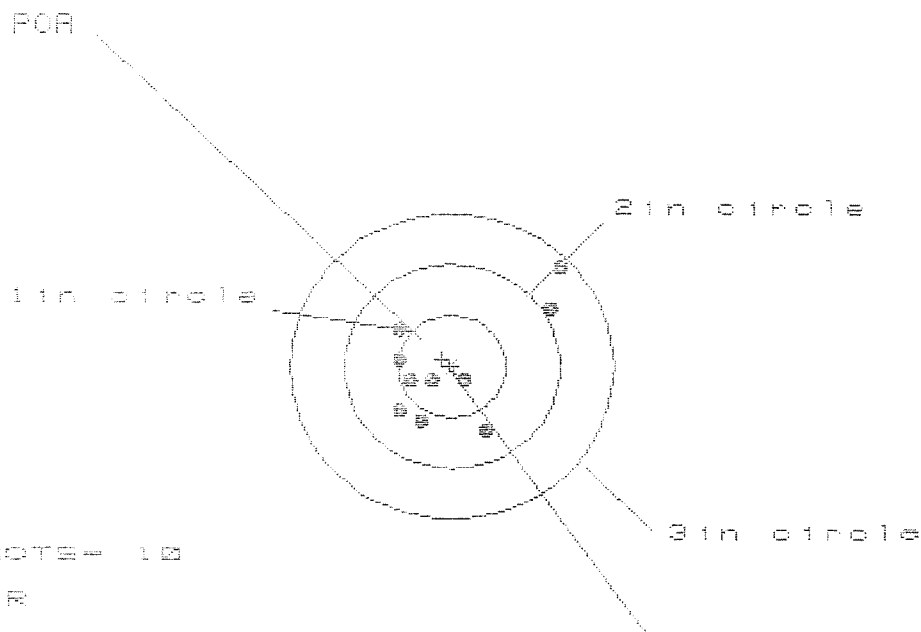
CENTROID #

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.858	.724	.712
MINIMUM X	:	-1.205	-1.060	-1.072
MAXIMUM Y	:	.704	.686	.539
MINIMUM Y	:	-1.160	-1.178	-.391
CENTROID X	:	.329	.463	.475
CENTROID Y	:	-.133	-.115	.032
POR TO CENTROID in.	:	.355	.477	.476
MIN RADIUS	:	.203	.083	.095
MEAN RADIUS	:	.725	.638	.560
MAX RADIUS	:	1.215	1.182	1.073
HORIZONTAL SPREAD	:	2.063	1.784	1.784
VERTICAL SPREAD	:	1.864	1.864	.930
EXTREME SPREAD	:	2.098	1.903	1.787
NUMBER IN ONE INCH CIRCLE	=		4	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		10	

7 May 1998

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CENTERFIRE PATTERNS # 5



OF SHOTS = 10

IN CIR

1in = 4

2in = 8

3in = 10

ISI = 1.470

VS = 1.586

CS = 2.033

CENTROID #

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.975	1.049	.532
MINIMUM X	:	-.504	-.396	-.265
MAXIMUM Y	:	.942	.715	.569
MINIMUM Y	:	-.654	-.550	-.480
CENTROID X	:	.088	.020	-.151
CENTROID Y	:	-.068	-.172	-.262
POA TO CENTROID (in.)	:	.111	.174	.302
MIN RADIUS	:	.129	.078	.091
MEAN RADIUS	:	.634	.503	.378
MAX RADIUS	:	1.355	1.270	.793
HORIZONTAL SPREAD	:	1.479	1.445	.797
VERTICAL SPREAD	:	1.596	1.265	1.029
EXTREME SPREAD	:	2.033	1.792	1.302
NUMBER IN ONE INCH CIRCLE	=		4	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		10	