

C6225201

MODEL 700TM M24

Model **SMS**TM

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.



BARBER - M24 0010451

Repair Inquiry

Repair Number: RE00062256

Serial: C6225201 Model 700 Center Fire Caliber:
7.62 NATO M-24 (SWS)

Repairman:

Verify Repair

Status:

Closed 2/26/2003 11:52:30 AM

Address Information

Customer:

☒ Received From

Return To:

☐ Received From

Name: JOINT TRANS DIRECTORATE

JOINT TRANS DIRECTORATE

Address 1: ATTN AFZH JTM M

ATTN AFZH JTM M

Address 2: BOX 339500 MS 53

PO Box:

BOX 339500 MS 53

PO Box:

City: FORT LEWIS

FORT LEWIS

State: WA

Zip Code: 98433

Country: US

State: WA

Zip Code: 98433

Country: US

FFL:

Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

Contact Information

Phone:

Fax:

Email:

Comments:

Received Condition

Poor

Condition
Notes:CSR
Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	1
A017	Scope Base	1
X	FRT & REAR SGT BA	1

Repair Search

Refresh

Close

nagletj

2/26/2003

1:04 PM

CAPS

NUM

INS

SCRL



Inbox - Micros...

Calendar - Micro...

Arms Services R...

1:04 PM

Serial
Number:

C6225201

Model: 700



RE00062256

Arms Services Repair & Estimate System

File Add Repair Estimate Repair Expedite Repair Inquiry Repair Tools CSR Tools Reports Table Maintenance System Maintenance Help Close

Repair Inquiry

Repair Number: RE00143869

Serial: C6225201 Model M24 SWS Center Fire
Caliber: 7.62 NATO

Repairman:

Status: Closed 4/1/2008 7:14:28 AM

Verify Repair

Address Information

Customer:

Received From

Return To:

Received From

Name: COMM 1 ST SFG

COMM 1 ST SFG

Address 1: ATTN 3/1/ BENDELL

ATTN 3/1/ BENDELL

Address 2: PO Box:

PO Box:

City: FORT LEWIS

FORT LEWIS

State: WA Zip Code: 98433

Country: US

State: WA Zip Code: 98433

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
A057	Frt and Rear Sgt Base	1

Repair Search

Refresh

Close

nagletj

4/1/2008

2:09 PM

CAPS

NUM

INTS

SCSL

start

11 M

My...

4 M...

Part...

2 S...

Arm...

Disk...

2:09 PM

Serial Number: **C6225201**
 Model: **M24 SWS**

RE00143869

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-C-0149R & E NUMBER 00143869SERIAL NUMBER C6225201LOG-IN DATE 4-1-08

OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	4-7-08	RTZ
505	RE-BARREL	4-7-08	RTZ
560	ASSEMBLE	4-7-08	TRW
600	PROOF	4-7-08	TRW
605	CHECK HEADSPACE	4-7-08	TRW
610	DIS-ASSEMBLE GUN	4-8-08	RPD
612	MAGNAFLUX	4/9/08	mmg
510	DRILL AND TAP	4/9/08	FM
615	ROLLMARK CALIBER	4-9-08	CW
618	ROTO-BLAST	4-9-08	DC
620	APPLY COATINGS	4-11-08	com
625	FINAL ASSEMBLY	4-14-08	RTZ
640	FUNCTION TEST AND	4-15-08	TRW
650	TARGET	4-15-08	TRW
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION	4-15-08	RP
	A) HEADSPACE	4-16-08	RTZ
	B) TRIGGER PULL	4-16-08	RTZ
680	F) SAFETY ON FORCE	4-16-08	RTZ
	G) SAFETY OFF FORCE	4-16-08	RTZ
	I) FIRING PIN INDENT	4-16-08	RTZ
690	PACK	4-16-08	FM

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6225201.___0
FILE DATE AND TIME: 04/16/2008 13:10

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.037
The Average Y Centroid of the Five Target Set:	0.030
The Average Point of Impact of the Five Target Set:	0.047
The Average Mean Radius of the Five Target Set:	0.748
The Distance from POA to Centroid Target #1:	0.136
The Distance from Centroid Target #2 to Centroid Target #1:	0.169
The Distance from Centroid Target #3 to Centroid Target #1:	0.265
The Distance from Centroid Target #4 to Centroid Target #1:	0.381
The Distance from Centroid Target #5 to Centroid Target #1:	0.110

BARBER - M24 0010455

SERIAL NUMBER: C6225201. __0

TARGET NUMBER: 1

FILE DATE: 04/16/2008

FILE TIME: 13:10

POINT#	X	Y
1:	0.381	0.795
2:	0.784	0.545
3:	1.010	-0.009
4:	-0.512	0.450
5:	0.020	0.099
6:	-0.193	-0.187
7:	0.363	-0.411
8:	-0.255	-0.799
9:	-0.951	-0.196
10:	0.392	-1.167

X CENTROID: 0.104

Y CENTROID: -0.088

POA TO CENTROID: 0.136

HORZ SPREAD: 1.961

VERT SPREAD: 1.962

GROUP SPREAD: 1.962

MIN RADIUS: 0.205

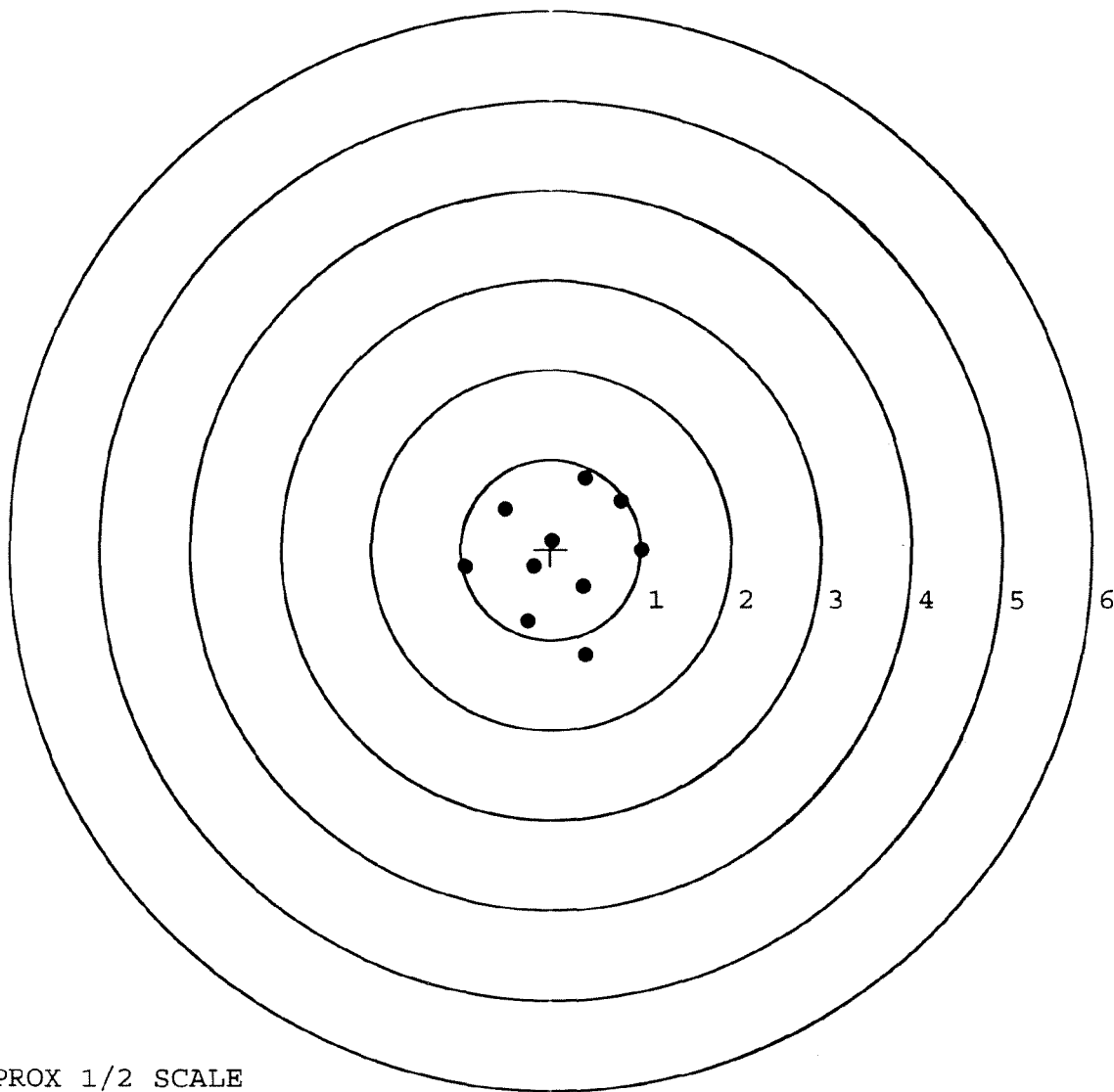
MAX RADIUS: 1.117

MEAN RADIUS: 0.749

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

BARBER - M24 0010456

SERIAL NUMBER: C6225201. __0

TARGET NUMBER: 2

FILE DATE: 04/16/2008

FILE TIME: 13:10

POINT#	X	Y
1:	1.154	0.080
2:	0.437	-0.598
3:	-1.165	-0.338
4:	-0.507	-0.487
5:	-0.550	-0.035
6:	-0.581	0.175
7:	0.306	0.433
8:	-0.029	0.233
9:	0.182	0.070
10:	0.109	-0.254

X CENTROID: -0.064

Y CENTROID: -0.072

POA TO CENTROID: 0.097

HORZ SPREAD: 2.319

VERT SPREAD: 1.031

GROUP SPREAD: 2.356

MIN RADIUS: 0.251

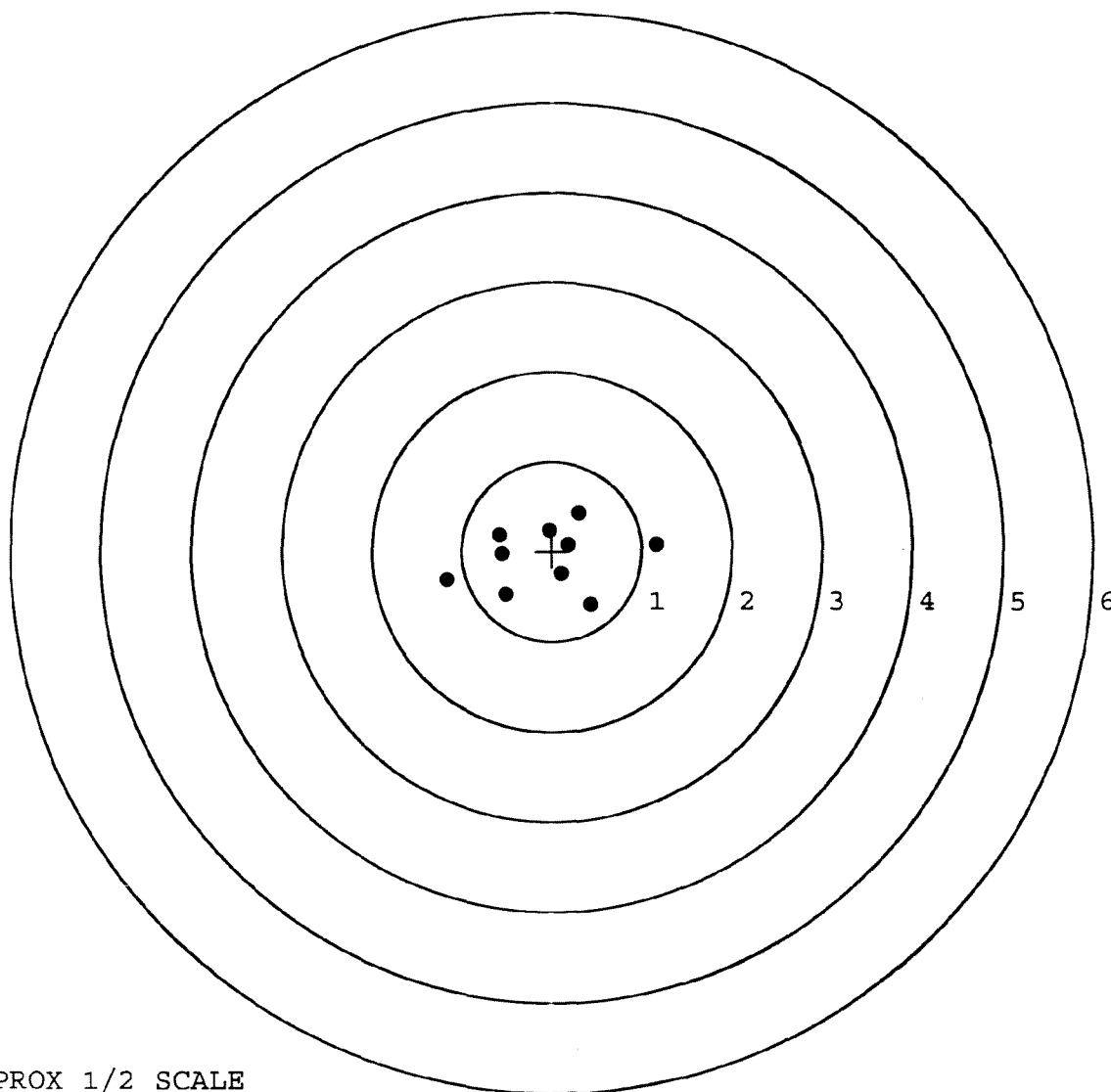
MAX RADIUS: 1.228

MEAN RADIUS: 0.622

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10



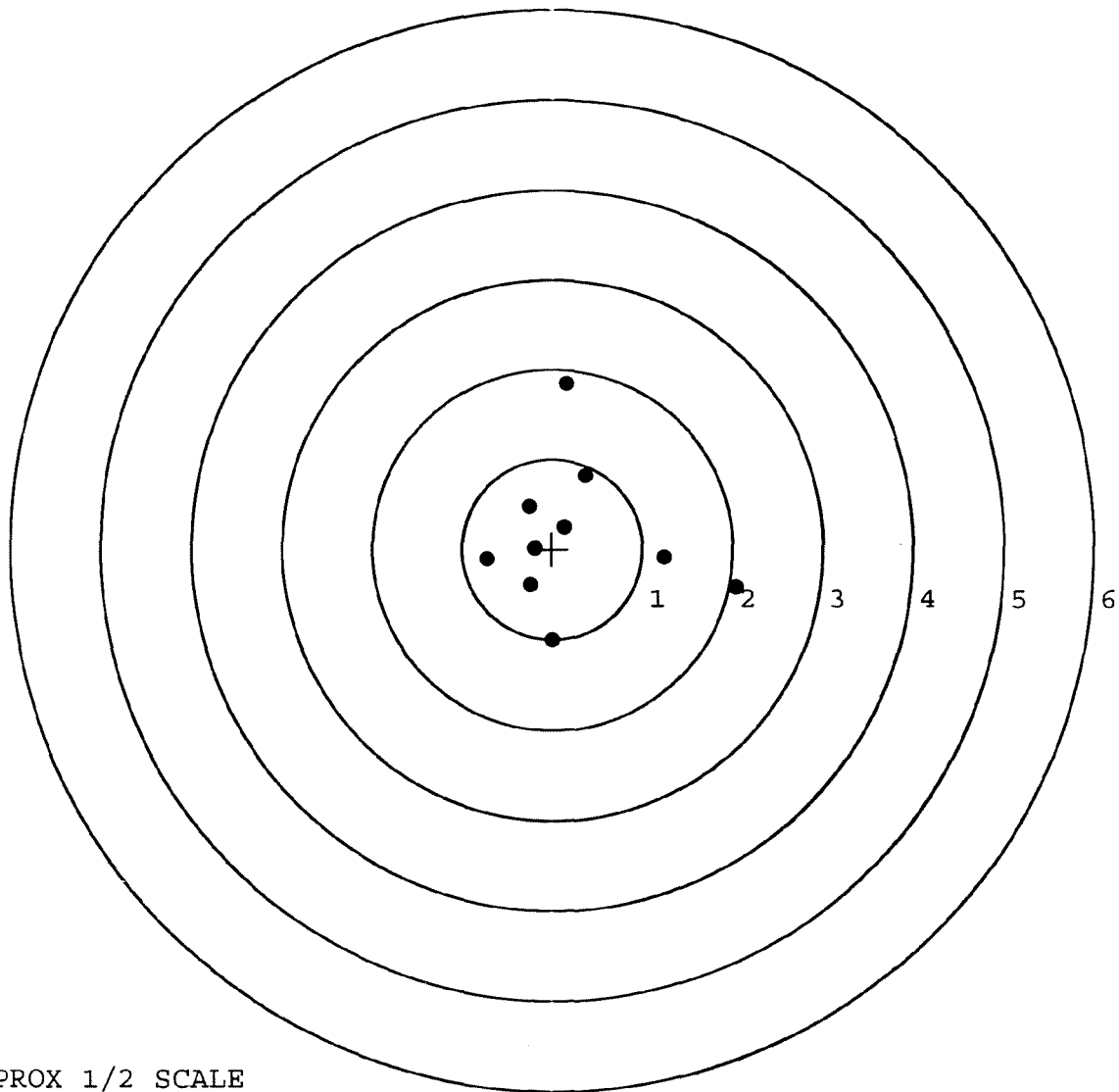
TARGET APPROX 1/2 SCALE

BARBER - M24 0010457

SERIAL NUMBER: C6225201. 0
 TARGET NUMBER: 3
 FILE DATE: 04/16/2008
 FILE TIME: 13:10

POINT#	X	Y
1:	0.370	0.818
2:	-0.255	0.470
3:	0.138	0.241
4:	-0.189	0.007
5:	-0.241	-0.406
6:	-0.003	-1.015
7:	-0.725	-0.119
8:	1.241	-0.099
9:	2.034	-0.431
10:	0.165	1.838

X CENTROID: 0.253
 Y CENTROID: 0.130
 POA TO CENTROID: 0.285
 HORZ SPREAD: 2.759
 VERT SPREAD: 2.853
 GROUP SPREAD: 2.940
 MIN RADIUS: 0.160
 MAX RADIUS: 1.867
 MEAN RADIUS: 0.943
 # IN 1 IN DIAMETER: 2
 # IN 2 IN DIAMETER: 5
 # in 3 IN DIAMETER: 8



TARGET APPROX 1/2 SCALE

BARBER - M24 0010458

SERIAL NUMBER: C6225201. __ 0

TARGET NUMBER: 4

FILE DATE: 04/16/2008

FILE TIME: 13:10

POINT#	X	Y
1:	0.799	0.772
2:	0.069	0.357
3:	0.523	0.165
4:	0.146	-0.071
5:	0.060	-0.492
6:	-0.040	-1.023
7:	-1.089	-0.077
8:	-0.753	0.384
9:	-0.963	0.495
10:	-0.626	1.068

X CENTROID: -0.187

Y CENTROID: 0.158

POA TO CENTROID: 0.245

HORZ SPREAD: 1.888

VERT SPREAD: 2.091

GROUP SPREAD: 2.172

MIN RADIUS: 0.325

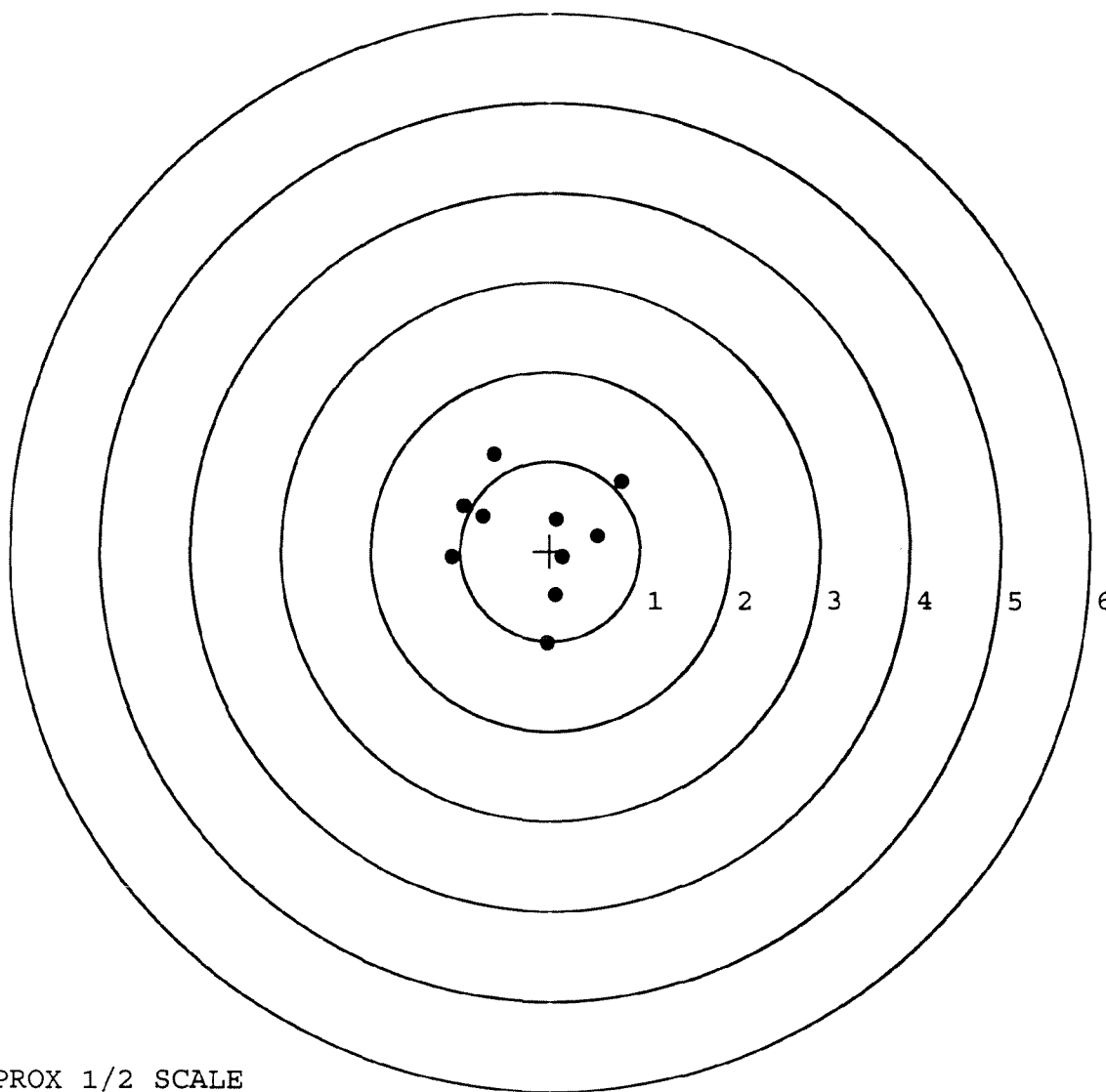
MAX RADIUS: 1.190

MEAN RADIUS: 0.788

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

BARBER - M24 0010459

SERIAL NUMBER: C6225201. __0

TARGET NUMBER: 5

FILE DATE: 04/16/2008

FILE TIME: 13:10

POINT#	X	Y
1:	-0.204	0.953
2:	-0.846	0.384
3:	0.381	0.577
4:	1.294	-0.100
5:	0.391	0.127
6:	0.152	-0.141
7:	-0.129	-0.125
8:	-0.010	-0.391
9:	-0.375	-0.276
10:	0.144	-0.814

X CENTROID: 0.080

Y CENTROID: 0.019

POA TO CENTROID: 0.082

HORZ SPREAD: 2.140

VERT SPREAD: 1.767

GROUP SPREAD: 2.194

MIN RADIUS: 0.176

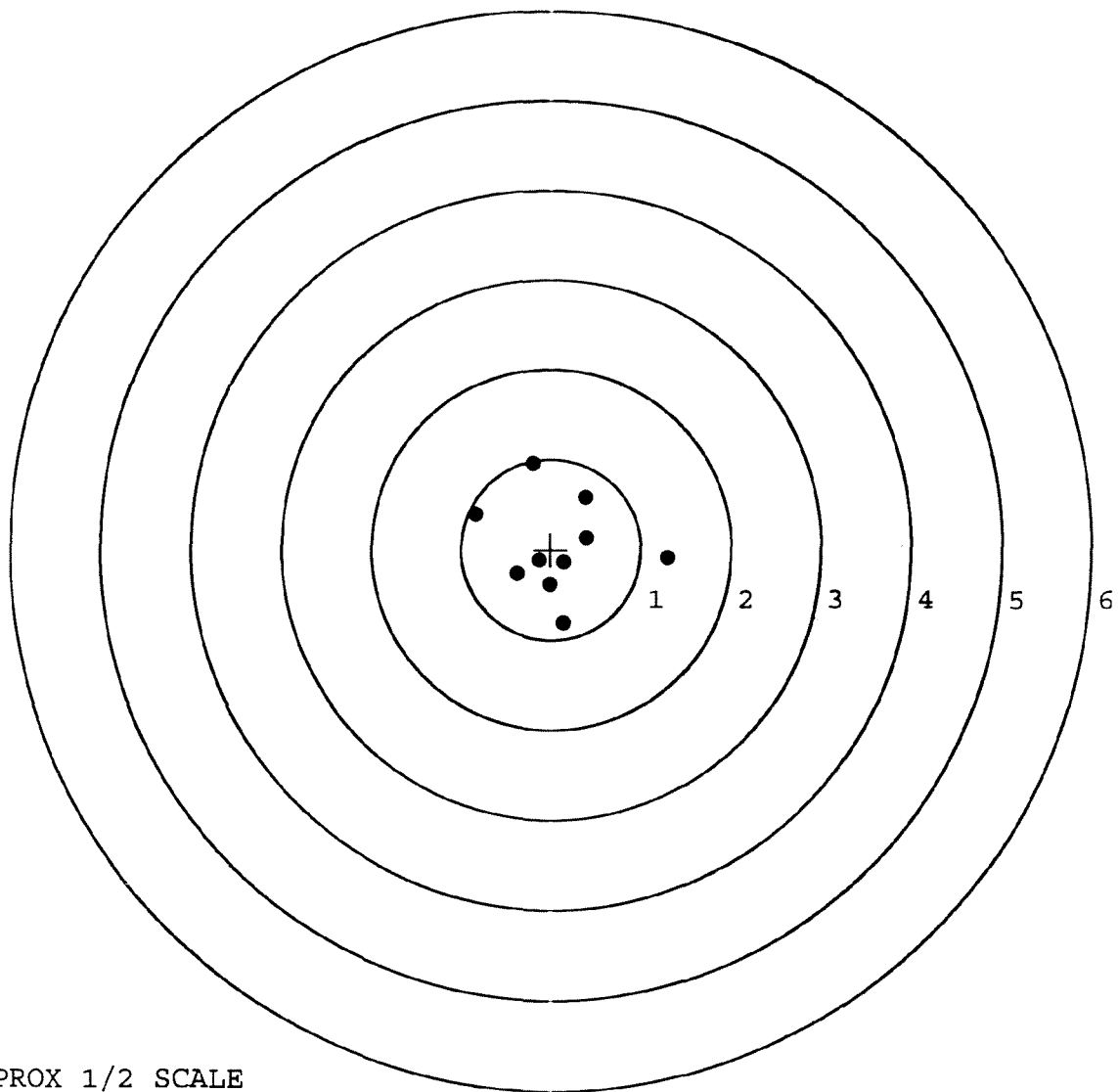
MAX RADIUS: 1.220

MEAN RADIUS: 0.638

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

Remington®



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

MODEL 700™ M24

SERIAL NO.
C6225201

ORDER NO.
5716

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

01



5716 C6225201

UPC



BARBER - M24 0010460

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

BARBER - M24 002600010499

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6225201.___0
FILE DATE AND TIME: 03/21/2003 22:39

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.057
The Average Y Centroid of the Five Target Set:	-0.007
The Average Point of Impact of the Five Target Set:	0.058
The Average Mean Radius of the Five Target Set:	0.602
The Distance from POA to Centroid Target #1:	0.284
The Distance from Centroid Target #2 to Centroid Target #1:	0.188
The Distance from Centroid Target #3 to Centroid Target #1:	0.296
The Distance from Centroid Target #4 to Centroid Target #1:	0.255
The Distance from Centroid Target #5 to Centroid Target #1:	0.497

BARBER - M24 0010462

SERIAL NUMBER: C6225201. 0

TARGET NUMBER: 1

FILE DATE: 03/21/2003

FILE TIME: 22:39

POINT#	X	Y
1:	-0.440	-0.872
2:	-0.308	-0.601
3:	0.266	0.224
4:	0.438	0.445
5:	0.226	0.947
6:	-0.257	0.426
7:	-0.168	0.308
8:	-0.288	0.034
9:	-0.693	0.105
10:	-1.334	0.215

X CENTROID: -0.256

Y CENTROID: 0.123

POA TO CENTROID: 0.284

HORZ SPREAD: 1.772

VERT SPREAD: 1.819

GROUP SPREAD: 1.787

MIN RADIUS: 0.095

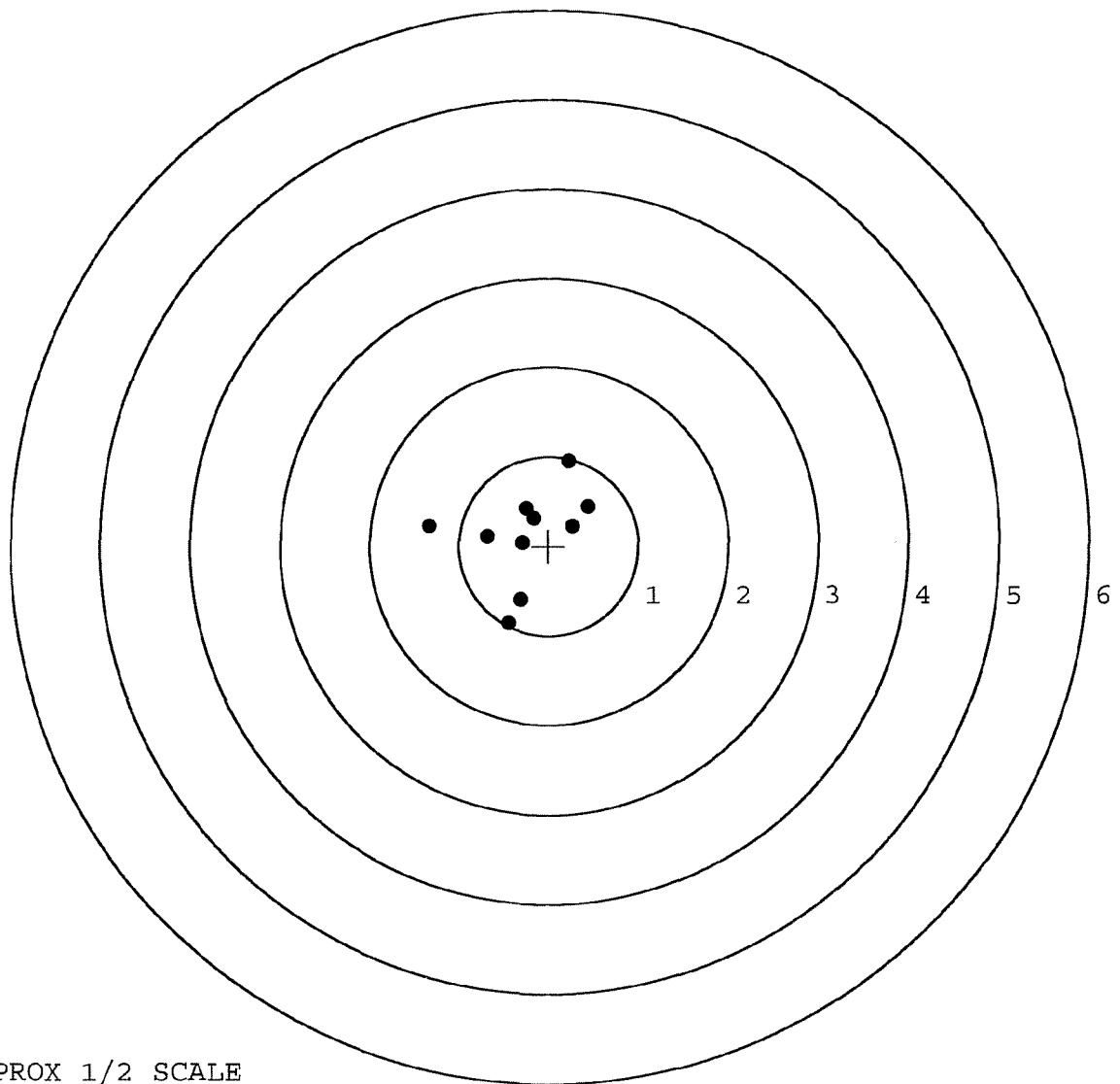
MAX RADIUS: 1.082

MEAN RADIUS: 0.611

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

BARBER - M24 0010463

SERIAL NUMBER: C6225201. 0

TARGET NUMBER: 2

FILE DATE: 03/21/2003

FILE TIME: 22:39

POINT#	X	Y
--------	---	---

1:	-0.617	-0.966
----	--------	--------

2:	-1.215	0.268
----	--------	-------

3:	0.751	0.350
----	-------	-------

4:	0.282	0.284
----	-------	-------

5:	0.238	0.153
----	-------	-------

6:	0.251	-0.172
----	-------	--------

7:	-0.198	0.188
----	--------	-------

8:	-0.123	-0.122
----	--------	--------

9:	-0.321	-0.052
----	--------	--------

10:	-0.389	-0.137
-----	--------	--------

X CENTROID: -0.134

Y CENTROID: -0.021

POA TO CENTROID: 0.136

HORZ SPREAD: 1.966

VERT SPREAD: 1.316

GROUP SPREAD: 1.968

MIN RADIUS: 0.102

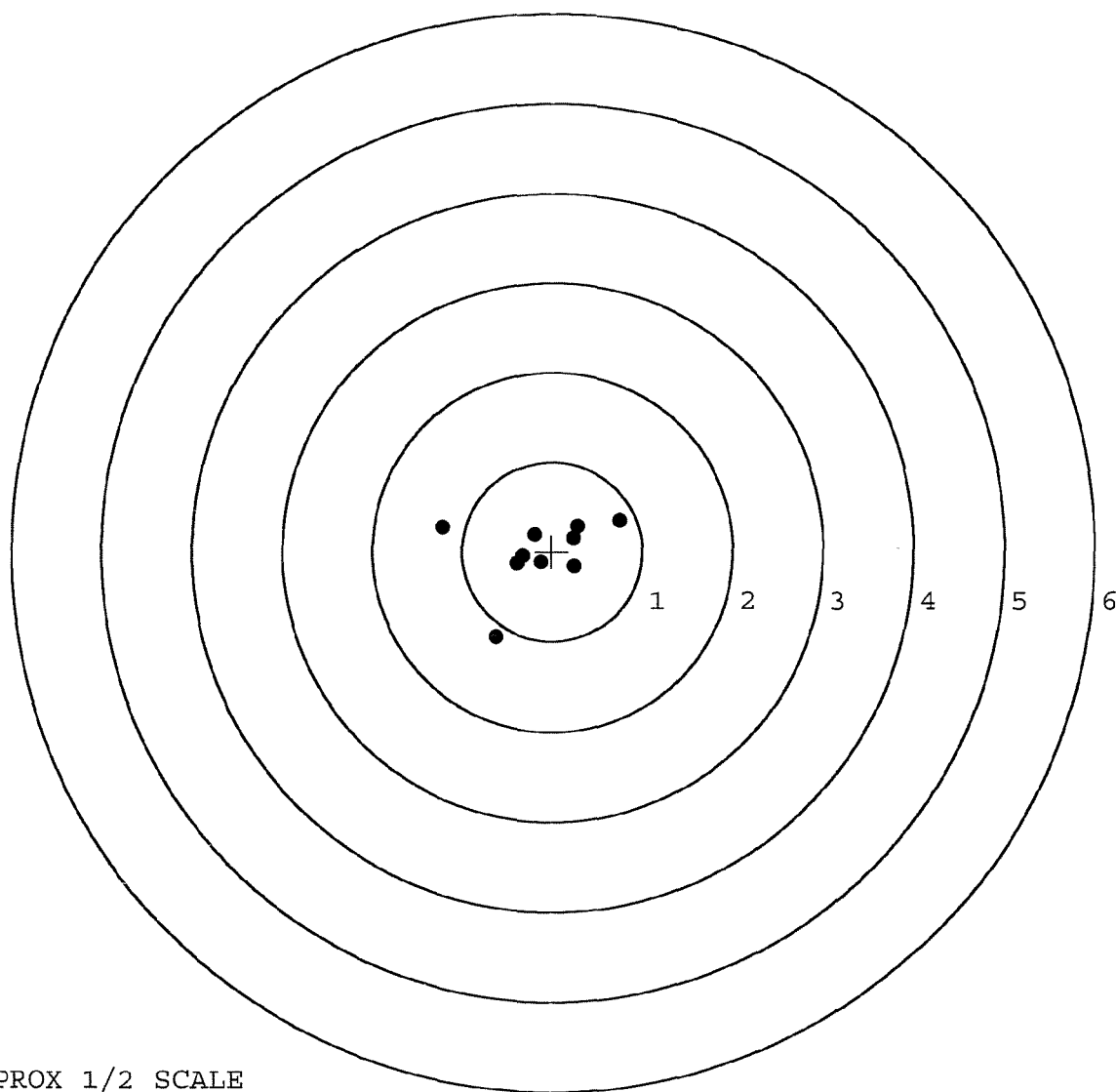
MAX RADIUS: 1.119

MEAN RADIUS: 0.527

IN 1 IN DIAMETER: 6

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

BARBER - M24 0010464

SERIAL NUMBER: C6225201. 0

TARGET NUMBER: 3

FILE DATE: 03/21/2003

FILE TIME: 22:39

POINT#	X	Y
1:	0.337	-1.054
2:	-0.054	-0.504
3:	0.290	-0.353
4:	0.174	-0.141
5:	0.320	-0.089
6:	0.080	0.411
7:	-0.164	0.403
8:	-0.186	0.655
9:	-0.936	0.372
10:	0.031	-0.122

X CENTROID: -0.011

Y CENTROID: -0.042

POA TO CENTROID: 0.044

HORZ SPREAD: 1.273

VERT SPREAD: 1.709

GROUP SPREAD: 1.912

MIN RADIUS: 0.090

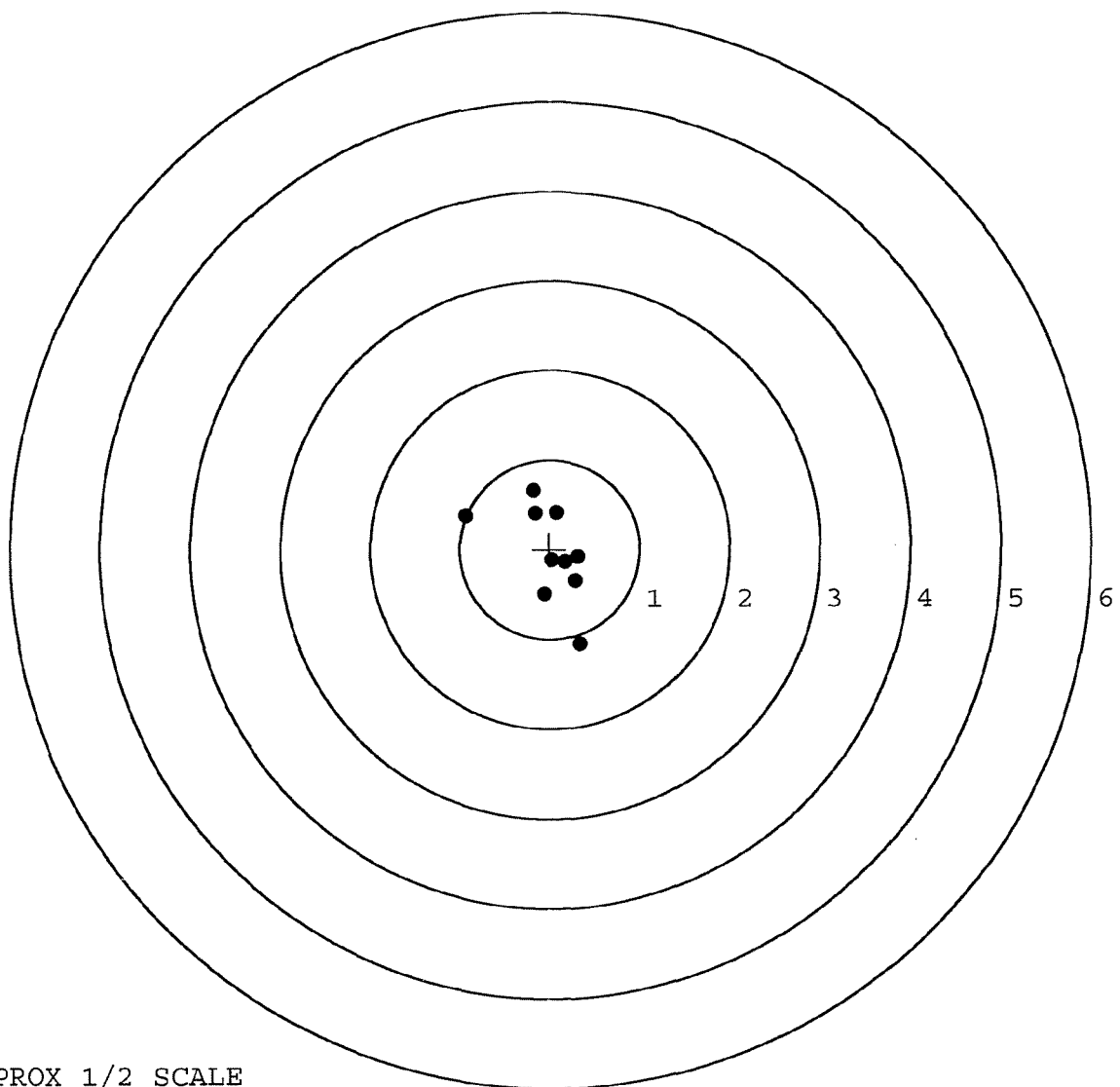
MAX RADIUS: 1.070

MEAN RADIUS: 0.527

IN 1 IN DIAMETER: 7

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

BARBER - M24 0010465

SERIAL NUMBER: C6225201. 0

TARGET NUMBER: 4

FILE DATE: 03/21/2003

FILE TIME: 22:39

POINT#	X	Y
1:	-0.015	-0.673
2:	0.329	-0.527
3:	0.587	-0.240
4:	0.282	-0.094
5:	0.523	0.246
6:	-0.815	-0.262
7:	-0.894	0.130
8:	-0.294	0.378
9:	-0.370	0.604
10:	0.660	1.582

X CENTROID: -0.001

Y CENTROID: 0.114

POA TO CENTROID: 0.114

HORZ SPREAD: 1.554

VERT SPREAD: 2.255

GROUP SPREAD: 2.361

MIN RADIUS: 0.351

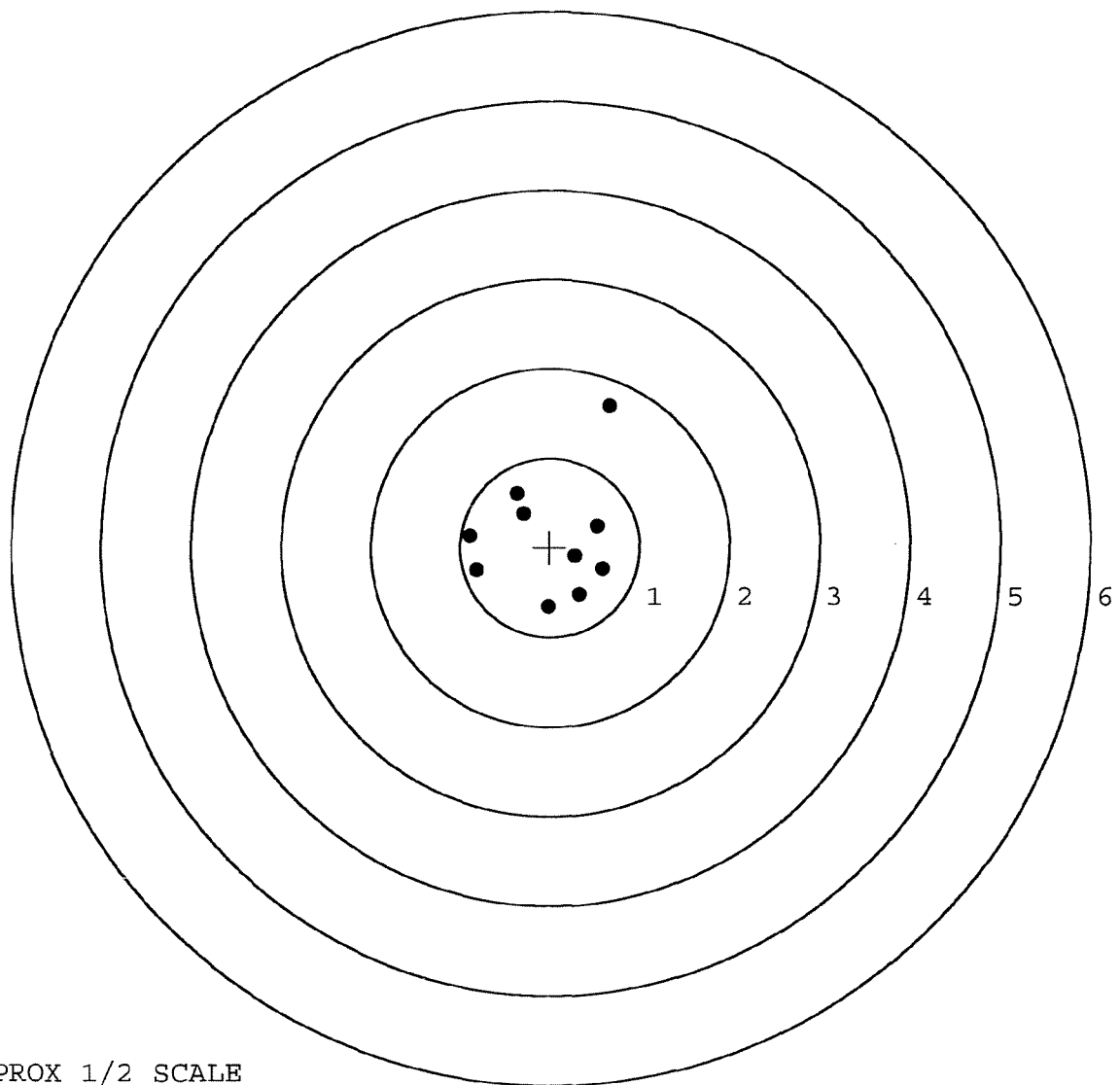
MAX RADIUS: 1.609

MEAN RADIUS: 0.749

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 9



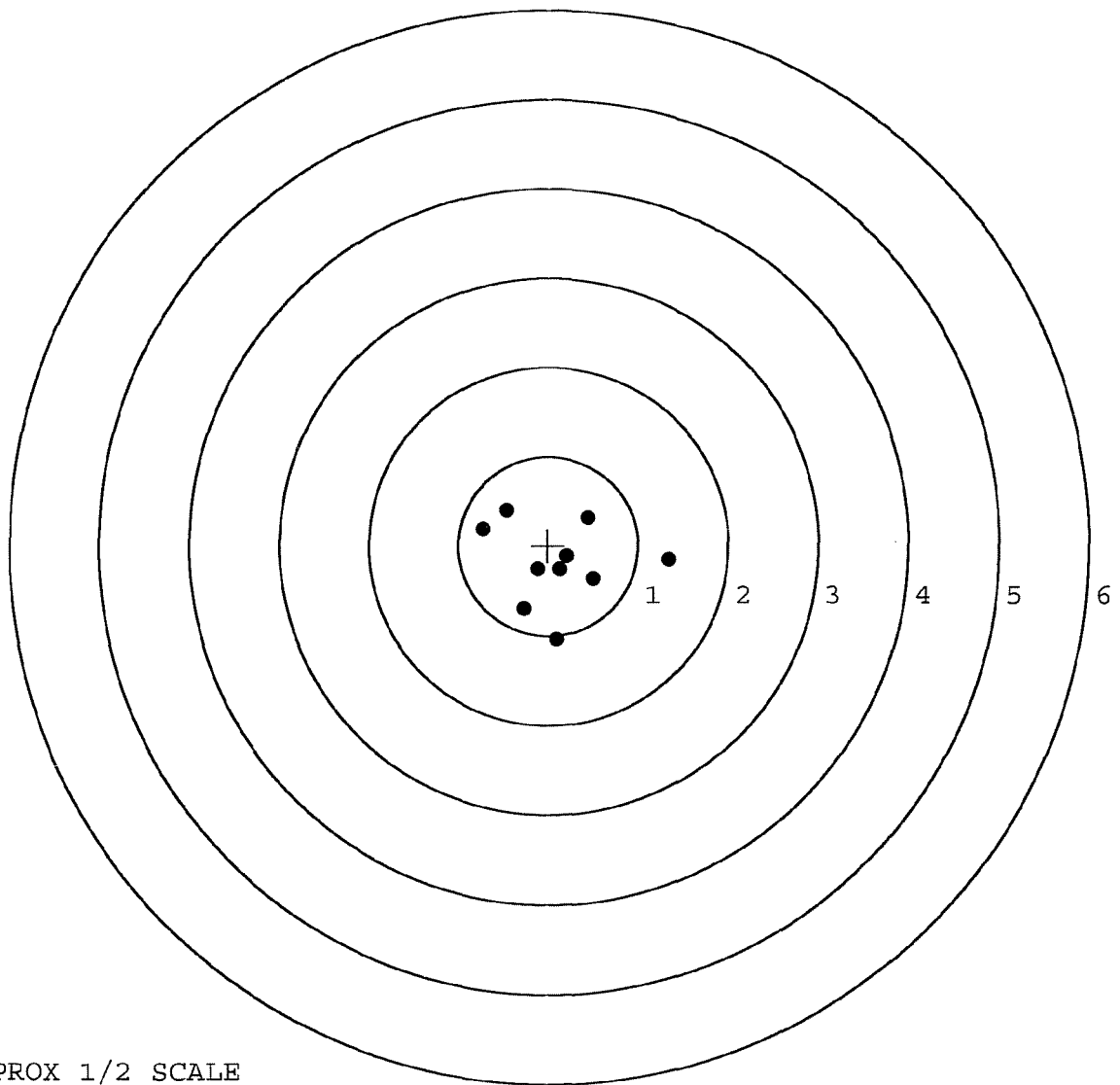
TARGET APPROX 1/2 SCALE

BARBER - M24 0010466

SERIAL NUMBER: C6225201. 0
 TARGET NUMBER: 5
 FILE DATE: 03/21/2003
 FILE TIME: 22:39

POINT#	X	Y
1:	1.346	-0.163
2:	0.506	-0.372
3:	0.095	-1.051
4:	-0.267	-0.713
5:	0.136	-0.272
6:	0.212	-0.124
7:	0.441	0.316
8:	-0.120	-0.273
9:	-0.466	0.397
10:	-0.733	0.181

X CENTROID: 0.115
 Y CENTROID: -0.207
 POA TO CENTROID: 0.237
 HORZ SPREAD: 2.079
 VERT SPREAD: 1.448
 GROUP SPREAD: 2.107
 MIN RADIUS: 0.068
 MAX RADIUS: 1.232
 MEAN RADIUS: 0.596
 # IN 1 IN DIAMETER: 4
 # IN 2 IN DIAMETER: 9
 # in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

R & E NUMBER	62256		
SERIAL NUMBER	C6225201		
LOG-IN DATE	2-26-03		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	2/27/03	RTL
560 A	RE-BARREL	3-4-03	RTL
B	DRILL AND TAP	3-6-03	TRW
575	ASSEMBLE	3-5-03	RTL
600	PROOF	3-5-03	AC
605	CHECK HEADSPACE	3-5-03	AC
610	DIS-ASSEMBLE GUN	3-5-03	AC
612	MAGNAFLUX	3-7-03	LO
615	ROLLMARK CALIBER	3-7-03	B
618	ROTO-BLAST	3-10-03	KO
620	APPLY COATINGS	3-18	TA
625 A	FINAL ASSEMBLY	3-19-03	RW
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE		
D	SAFETY "OFF" FORCE		
E	FIRING PIN INDENT		
640	TARGET	3-20-03	RW
655	FINAL INSPECT	3-21-03	RTL
660	PACK	3-21-03	TA
		SHIP DATE	
	QAR INSPECTION DATE		

CONTRACT # DAAA21-87-C-0086

INTERCHANGEABILITY

GUN SERIAL # C6225201

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	4 21	89	RW
600	Proof	4 21	89	RW
607	Check Headspace	4 21	89	RW
610	Dis-assemble Gun	4 21	89	RW
612	Magnaflux Barrel Action		4/26	KCR
	Magnaflux Bolt		4/27	KCR
615	Rollmark Caliber		4/27	LS
617	Drill and Tap Sight Holes	4 27	89	JB
618	Polish Barrel RB	4 27	89	BT
620	Apply Coatings (Barrel Action)		5-2-89	JA
	Apply Coating (Bolt)			
625	Final Assembly			
	A) Clean inside of Bolt Assembly		5/22/89	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		5/22/89	RW
	C) Inspect Ejector Hole for Chamfer		5/22/89	RW
	D) Oil Firing Pin Ass'y		5/22/89	RW
	E) Adjust Trigger Pull to Min Setting and Stake		5/26/89	WB

op. #	BARBER - M24 0010469 OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4	4	4			5/31/89	JL
	G) Safety Off Force	3	3	3			5/31/89	JL
	H) Trigger Pull Test & Retainability						5/26/89	W3
	I) Firing Pin Indent	.021	.020.5	.020			5/30/89	JL
	J) Assemble Stock						5/30/89	RW
	K) Assemble Swivel Studs						31 May 89	JS
	L) Attach Front and Rear Sight Assemblies						5/30/89	RW
	M) Iron Sight Alignment						5/30/89	RW
	N) Detach Front & Rear Sights & place in numbered container						5/30/89	RW
	O) Attach Scope to Rifle						5/30/89	JL
	P) Detach & Attach Scope 20 Times						5/30/89	JL
640	Gallery Target & Test	51 R	102 L				5-30-89	JS
	A) Time						"	JS
	B) Malfunctions						"	JS
	C) Pierced Primers						"	JS
	D) Optical Clarity of Scope						"	JS
645	Inspect for Live Ammo						5-30-89	JS
655	Final Inspection							
	A) Headspace						31 May 89	JS
	B) Trigger Pull	2.64	2.69	2.70	2.73	2.70	31 May 89	JS
	C) Function						31 May 89	JS
660	Pack						27 June 89	JS

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6225201

DATE 3/30/90

TESTER PH

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#	COMMENTS
PULL #1	2.21	2.16	2.34	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.09	2.03	2.05	
PULL #3	2.04	2.03	2.20	
PULL #4	2.07	2.05	2.12	
PULL #5	2.03	2.01	2.12	
TOTAL	10.44	10.28	10.83	
AVG.	2.08	2.05	2.16	

	3.00# INITIAL	3.00# AFTER 20 CYCLES	COMMENTS
PULL #1	3.27	3.04	
PULL #2	3.09	3.03	
PULL #3	3.13	3.05	
PULL #4	3.16	3.10	
PULL #5	3.19	3.13	
TOTAL	15.84	15.35	
AVG.	3.16	3.07	

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.22	4.09		
PULL #2	4.12	4.11		
PULL #3	4.16	4.04		
PULL #4	4.19	4.19		
PULL #5	4.14	4.21		
TOTAL	20.83	20.64		
AVG.	4.16	4.12		

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6225201
1 Jun 1989

CENTROIDAL DISTANCES

0 TO	1	.122287
1 TO	2	.0957549
1 TO	3	.332569
1 TO	4	.14857
1 TO	5	.0630317

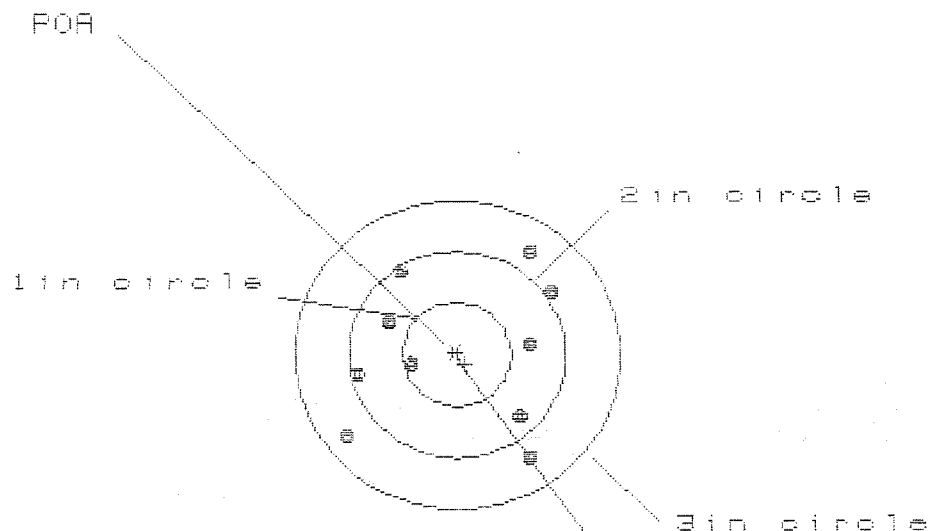
12 3 <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.047
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0412
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0625015
THE AMR FOR THIS RIFLE IS: .9118

30 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08225201

CENTERFIRE PATTERNS # 1



OF SHOTS= 10

IN CIR

1 in = 1

2 in = 6

3 in = 10

HE= 1.948

VS= 1.962

GS= 2.471

CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.889	.771	.839
MINIMUM X	-1.059	-1.000	-.932
MAXIMUM Y	.958	.866	.728
MINIMUM Y	-1.004	-1.096	-.816
CENTROID X	-.077	.041	-.027
CENTROID Y	.095	.187	.325
POA TO CENTROID in.	.122	.192	.326
MIN RADIUS	.399	.543	.560
MEAN RADIUS	.937	.886	.834
MAX RADIUS	1.350	1.224	1.043
HORIZONTAL SPREAD	1.948	1.771	1.771
VERTICAL SPREAD	1.962	1.962	1.544
EXTREME SPREAD	2.471	2.196	1.946
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	6		
NUMBER IN THREE INCH CIRCLE =	10		

30 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/06225201

CENTERFIRE PATTERNS # 2

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS= 10

IN CIR

1 in = 1

2 in = 7

3 in = 9

HS= 1.874

VS= 2.705

GS= 2.706

PATTERN #	2
SHOTS (BEST OF)	10
MAXIMUM X	1.047
MINIMUM X	-.827
MAXIMUM Y	1.467
MINIMUM Y	-1.238
CENTROID X	.018
CENTROID Y	.083
POA TO CENTROID in.	.085
MIN RADIUS	.484
MEAN RADIUS	.861
MAX RADIUS	1.543
HORIZONTAL SPREAD	1.874
VERTICAL SPREAD	2.705
EXTREME SPREAD	2.706
NUMBER IN ONE INCH CIRCLE =	1
NUMBER IN TWO INCH CIRCLE =	7
NUMBER IN THREE INCH CIRCLE =	9

30 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08225201

CENTERFIRE PATTERNS # 3

POA

1 in circle

2 in circle

3 in circle

OF SHOTS= 10

IN CIR

1 in = 3

2 in = 6

3 in = 9

HS= 2.757

VS= 1.737

GS= 2.791

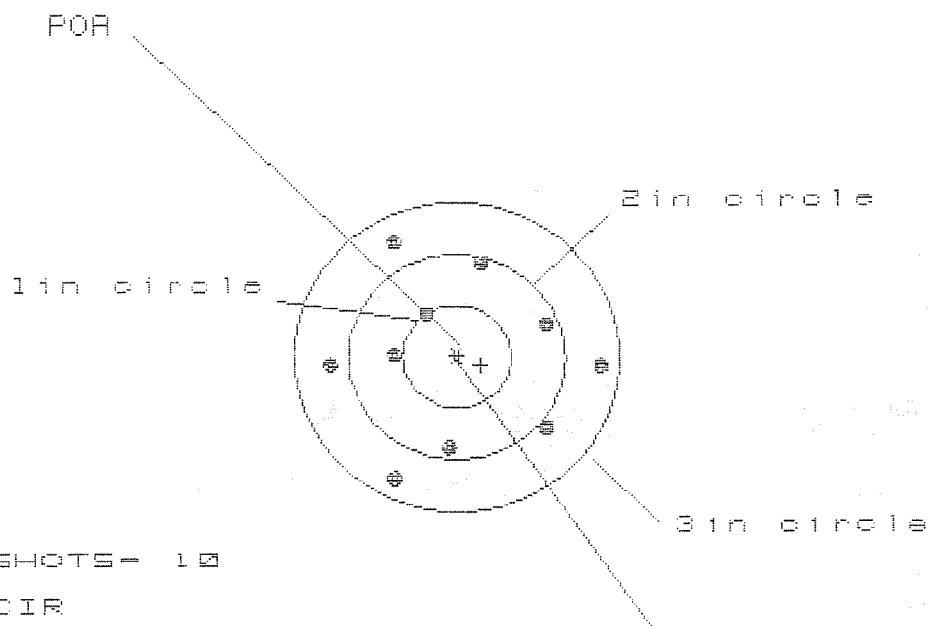
CENTROID *

PATTERN #	3
SHOTS (BEST OF)	10
MAXIMUM X	1.125
MINIMUM X	-1.532
MAXIMUM Y	.803
MINIMUM Y	-.934
CENTROID X	.084
CENTROID Y	-.196
POA TO CENTROID in.	.213
MIN RADIUS	.244
MEAN RADIUS	.918
MAX RADIUS	1.674
HORIZONTAL SPREAD	2.757
VERTICAL SPREAD	1.737
EXTREME SPREAD	2.791
NUMBER IN ONE INCH CIRCLE	3
NUMBER IN TWO INCH CIRCLE	6
NUMBER IN THREE INCH CIRCLE	9

30 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/06225201

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1in = 0

2in = 5

3in = 10

HS= 2.477

VS= 2.289

GS= 2.478

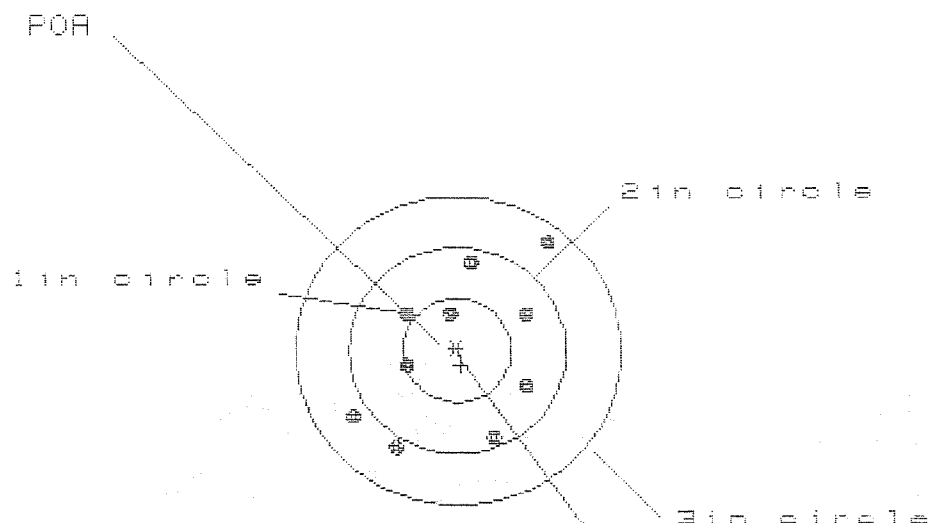
CENTROID #

PATTERN #	4	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.307	1.246	.955
MINIMUM X	-1.170	-1.231	-1.075
MAXIMUM Y	1.084	.950	.921
MINIMUM Y	-1.206	-.993	-1.022
CENTROID X	-.225	-.164	-.320
CENTROID Y	.082	.215	.244
POR TO CENTROID in.	.239	.271	.402
MIN RADIUS	.520	.455	.332
MEAN RADIUS	.994	.945	.880
MAX RADIUS	1.323	1.266	1.218
HORIZONTAL SPREAD	2.477	2.477	2.030
VERTICAL SPREAD	2.289	1.943	1.943
EXTREME SPREAD	2.478	2.478	2.209
NUMBER IN ONE INCH CIRCLE =	0		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	10		

30 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08225201

CENTERFIRE PATTERNS # 5



OF SHOTS = 10

IN CIR

1 in = 2

2 in = 7

3 in = 10

HS = 1.832

VS = 2.054

GS = 2.520

CENTROID *

PATTERN #	5	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.820	.771	.655
MINIMUM X	-1.012	-.921	-.620
MAXIMUM Y	1.063	.948	.879
MINIMUM Y	-.991	-.873	-.942
CENTROID X	-.035	-.127	-.011
CENTROID Y	.142	.024	.093
POA TO CENTROID in.	.147	.129	.094
MIN RADIUS	.388	.381	.441
MEAN RADIUS	.849	.791	.746
MAX RADIUS	1.342	1.073	1.127
HORIZONTAL SPREAD	1.832	1.692	1.275
VERTICAL SPREAD	2.054	1.821	1.821
EXTREME SPREAD	2.520	1.986	1.973
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		7	
NUMBER IN THREE INCH CIRCLE =		10	

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6225201
9 Jun 1989

INTERCHANGEABILITY

CENTROIDAL DISTANCES

0 TO	1	1.02316
1 TO	2	.282661
1 TO	3	.25532
1 TO	4	.143283
1 TO	5	.509135

+ $\frac{5}{21}$ (----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .8032
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0904
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .808271
THE AMR FOR THIS RIFLE IS: .8552

9 Jun 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08225201.1

CENTERFIRE PATTERNS

1

POA

1in circle

2in circle

3in circle

CENTROID #

OF SHOTS = 10

IN CIR

1in = 2

2in = 6

3in = 10

HS = 1.828

VS = 2.374

GS = 2.544

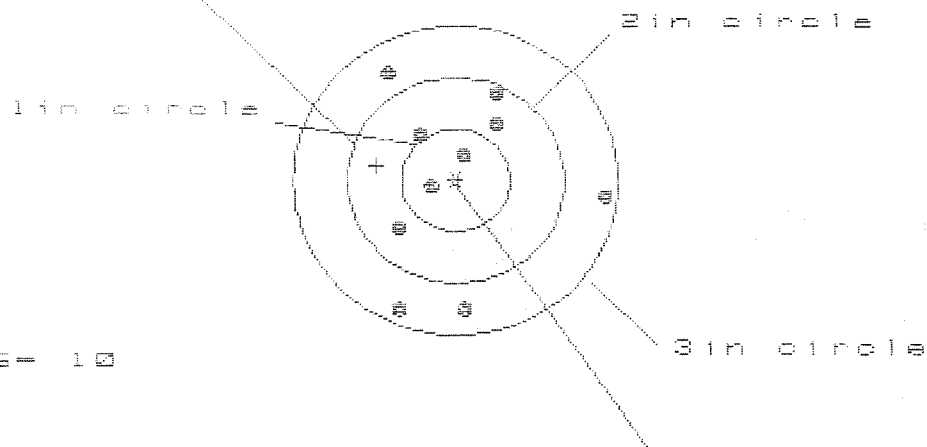
PATTERN #	1	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.004	.912	.912
MINIMUM X	-.824	-.905	-.905
MAXIMUM Y	1.280	1.158	.877
MINIMUM Y	-1.094	-1.207	-1.062
CENTROID X	1.002	1.094	1.094
CENTROID Y	-.207	-.085	-.230
POA TO CENTROID in.	1.023	1.097	1.110
MIN RADIUS	.389	.386	.470
MEAN RADIUS	.929	.871	.838
MAX RADIUS	1.370	1.207	1.063
HORIZONTAL SPREAD	1.828	1.817	1.817
VERTICAL SPREAD	2.374	2.365	1.939
EXTREME SPREAD	2.544	2.365	1.969
NUMBER IN ONE INCH CIRCLE	= 2		
NUMBER IN TWO INCH CIRCLE	= 6		
NUMBER IN THREE INCH CIRCLE	= 10		

9 Jun 1989

FILE:/PATTERNING/CENTERFIRE_PATT/06825201.1

CENTERFIRE PATTERNS # 2

POA



OF SHOTS = 10

IN CIR

1 in = 2

2 in = 6

3 in = 10

HE = 1.984

VE = 2.239

GE = 2.932

CENTROID #

PATTERN #	2	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.345	.533	.485
MINIMUM X	-.649	-.500	-.548
MAXIMUM Y	1.010	.987	.831
MINIMUM Y	-1.230	-1.252	-1.386
CENTROID X	.726	.577	.625
CENTROID Y	-.146	-.123	.033
POA TO CENTROID in.	.740	.590	.626
MIN RADIUS	.203	.079	.192
MEAN RADIUS	.837	.757	.667
MAX RADIUS	1.360	1.311	1.394
HORIZONTAL SPREAD	1.994	1.033	1.033
VERTICAL SPREAD	2.239	2.239	2.217
EXTREME SPREAD	2.332	2.322	2.322
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		6	
NUMBER IN THREE INCH CIRCLE =		10	

5 Jun 1989

FILE:\PATTERNING\CENTERFIRE_PATT\08225201.1

CENTERFIRE PATTERNS # 3

POA

1in circle

2in circle

3in circle

CENTROID #

OF SHOTS - 10

IN CIR

1in = 2

2in = 10

3in = 10

HS = 1.517

VS = 1.014

GS = 1.648

PATTERN #

3

SHOTS (BEST OF)

10

9

8

MAXIMUM X

.609

.512

.387

MINIMUM X

-.909

-1.005

-.734

MAXIMUM Y

.485

.442

.463

MINIMUM Y

-.528

-.572

-.551

CENTROID X

.756

.852

.977

CENTROID Y

-.135

-.091

-.112

POA TO CENTROID in.

.768

.857

.984

MIN RADIUS

.167

.190

.228

MEAN RADIUS

.628

.583

.513

MAX RADIUS

.946

1.019

.822

HORIZONTAL SPREAD

1.517

1.517

1.121

VERTICAL SPREAD

1.014

1.014

1.014

EXTREME SPREAD

1.648

1.648

1.416

NUMBER IN ONE INCH CIRCLE =

2

NUMBER IN TWO INCH CIRCLE =

10

NUMBER IN THREE INCH CIRCLE =

10

9 Jun 1988

FILE://PATTERNING/CENTERFIRE_PATT/C6225281.1

CENTERFIRE PATTERNS

4

POR

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS = 10

IN CIR

1in = 0

2in = 5

3in = 9

HS = 2.564

VS = 1.851

GS = 2.617

PATTERN #

4

SHOTS (BEST OF)

10

9

8

MAXIMUM X

.957

.778

.687

MINIMUM X

-1.607

-1.220

-1.311

MAXIMUM Y

.706

.712

.570

MINIMUM Y

-1.145

-1.139

-1.035

CENTROID X

.893

1.072

1.163

CENTROID Y

-.114

-.120

.022

POR TO CENTROID in.

.901

1.079

1.163

MIN RADIUS

.523

.672

.584

MEAN RADIUS

.990

.901

.801

MAX RADIUS

1.608

1.351

1.320

HORIZONTAL SPREAD

2.564

1.998

1.998

VERTICAL SPREAD

1.851

1.851

1.805

EXTREME SPREAD

2.617

2.110

2.066

NUMBER IN ONE INCH CIRCLE =

0

NUMBER IN TWO INCH CIRCLE =

5

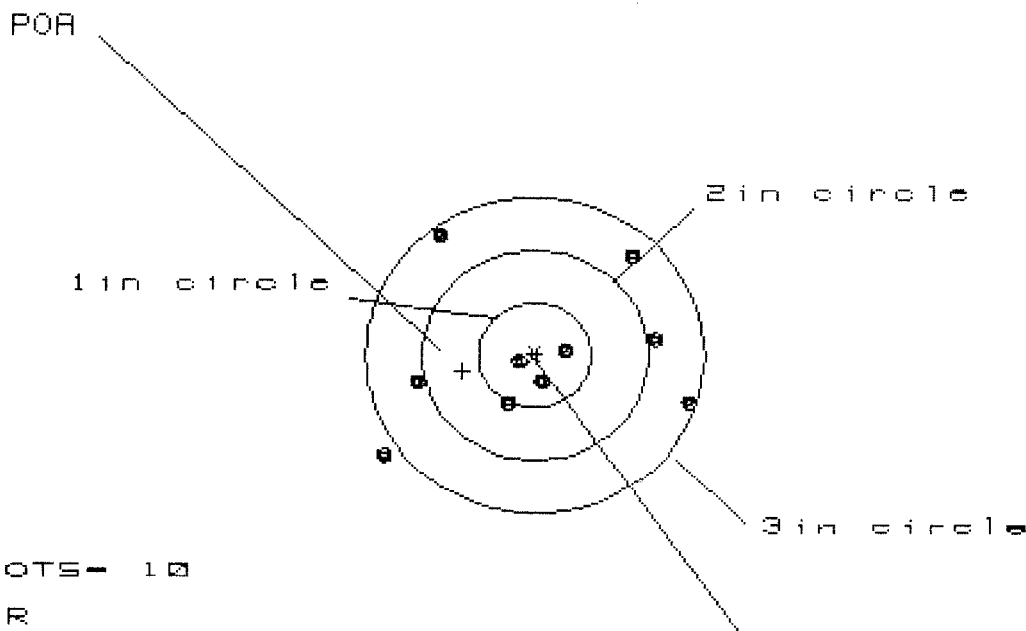
NUMBER IN THREE INCH CIRCLE =

9

9 Jun 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C8225201.1

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1 in - 3

2 in - 4

3 in - 9

HS- 2.669

VS- 2.044

GS- 2.860

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.319	1.169	1.098
MINIMUM X	:	-1.350	-1.166	-1.020
MAXIMUM Y	:	1.129	1.028	.959
MINIMUM Y	:	-.915	-.569	-.638
CENTROID X	:	.639	.789	.643
CENTROID Y	:	.150	.251	.320
POA TO CENTROID in.	:	.656	.828	.718
MIN RADIUS	:	.136	.099	.260
MEAN RADIUS	:	.892	.818	.769
MAX RADIUS	:	1.631	1.398	1.250
HORIZONTAL SPREAD	:	2.669	2.335	2.118
VERTICAL SPREAD	:	2.044	1.597	1.597
EXTREME SPREAD	:	2.860	2.642	2.171
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		9	

BARRIER M24 0010483

R ORDER
96-06354

M24.SNIPER

L/I Stud

ACCESSORIES	W/STUDS	SCOPE BASE
-------------	---------	------------

SHIP TO:

WA 98433

98433

CUST NO: 138744 C.O.D L

WRITE

VIA

UFS

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

TOTAL	
-------	--

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

COMMENTS

Barrel - 96003

Republier Coat Trigger Guard
Assy, front & Rear Sight Bases
Replining Scope Base & Swivel
studs

REPAIRMAN <i>RW</i>	PROOF <i>L RW</i>	CLEAN <i>✓</i>	TEST <i>A</i>	TARGET <i>A</i>	PATTERN <i>-</i>
GALLERY TESTER <i>AI</i>	DATE <i>3/10/96</i>	DATE <i>4/13/96</i>	DATE <i>4/13/96</i>	DATE <i>4/13/96</i>	DATE

OFFICE COPY

RD6925 REV 1/94

BARBER - M24 **M2400010522**

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225201

OP. #	OP. NAME	READINGS	DATE	INITIAL
575 & 580	Assemble Action and Stock		3/20/96	RW
600	Proof		3/20/96	RW
607	Check Headspace		3/20/96	RW
610	Dis-assemble Gun		3/20/96	RW
612	Magnaflux Barrel Action			
	Magnaflux Bolt			
615	Rollmark Caliber			
617	Drill and Tap Sight Holes			
618	Polish Barrel			
620	Apply Coatings (Barrel Action)			
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		4/3/96	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		4/3/96	RW
	C) Inspect Ejector Hole for Chamfer		4/3/96	RW
	D) Oil Firing Pin Ass'y		4/3/96	RW
	E) Adjust Trigger Pull to Min Setting and Stake			

op. #	BARBER M24 0010485	READINGS	DATE	INIT
625 cont.	F) Safety On Force			
	G) Safety Off Force			
	H) Trigger Pull Test & Retainability			
	I) Firing Pin Indent			
	J) Assemble Stock			
	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			
	P) Detach & Attach Scope 20 Times			
640	Gallery Target & Test		4/3/96	RE
	A) Time			
	B) Malfunctions			
	C) Pierced Primers			
	D) Optical Clarity of Scope			
645	Inspect for Live Ammo		4/3/96	RE
655	Final Inspection			
	A) Headspace		4/4/96	RW
	B) Trigger Pull			
	C) Function		4/4/96	RW
660	Pack			

Final Inspection

Sn: C6225201

DATE REC'D: 2/26/96

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

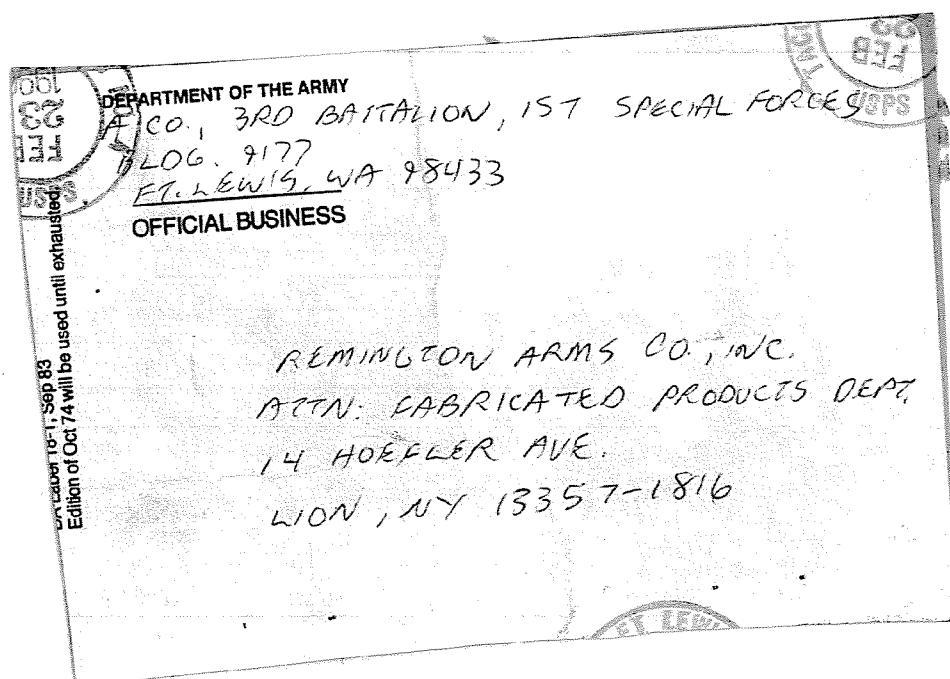
Systems Case

☐ Scope Case☐ Iron Sights☐ Deployment Kit

Trigger

☒ SAFETY OPERATION☒ SET

Comments:



CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06225201
5 Feb 1900

CENTROIDAL DISTANCES

0 TO	1	.980946
1 TO	2	.268062
1 TO	3	.402906
1 TO	4	.483523
1 TO	5	.1186

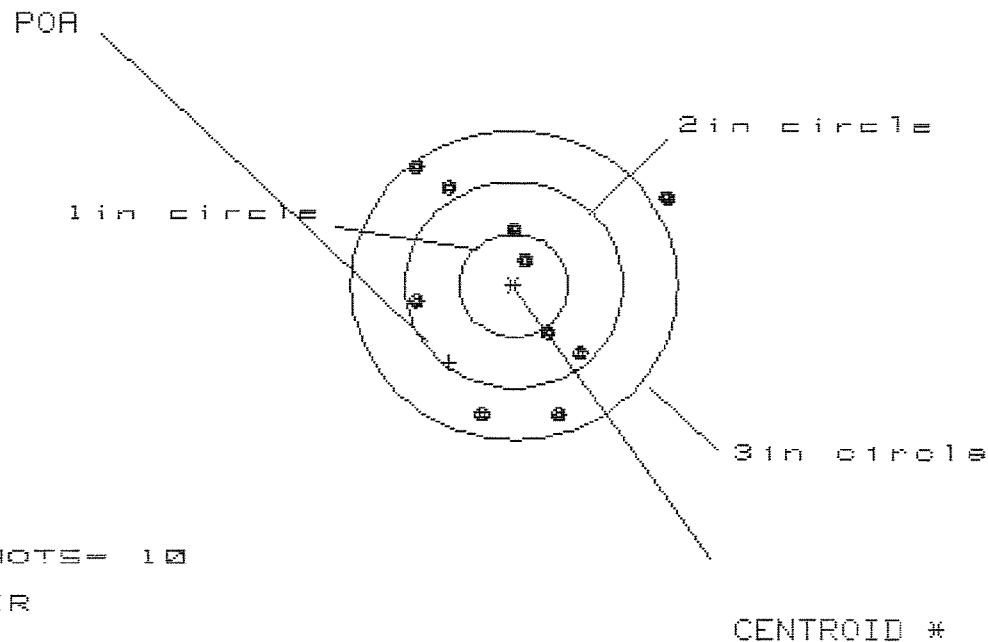
+ ⁸/₉ <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .525
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .5172
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .738967
THE AMR FOR THIS RIFLE IS: 1.085

5 Feb 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C8225281

CENTERFIRE PATTERNS # 1



OF SHOTS= 10

IN CIR

1 in = 1

2 in = 5

3 in = 9

HS= 2.313

VS= 2.413

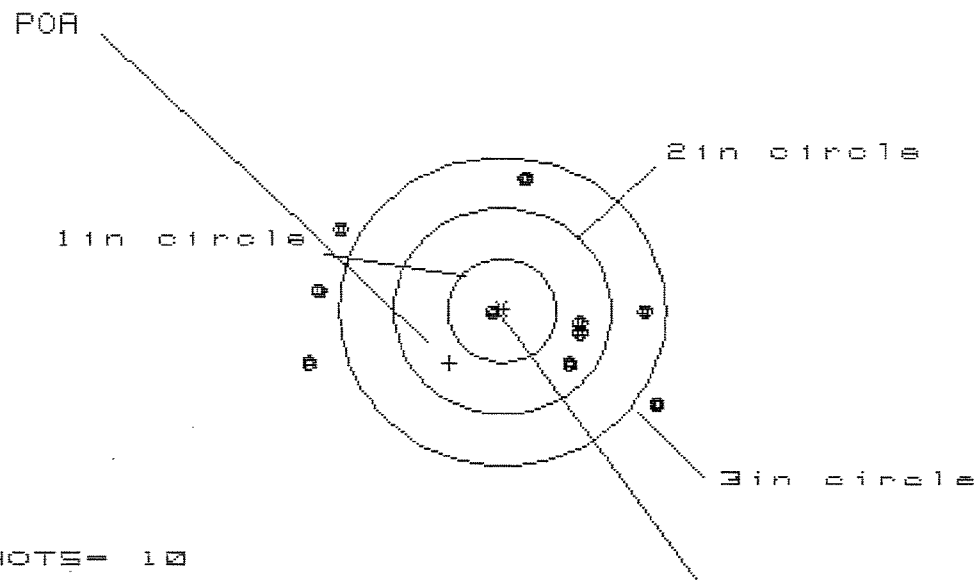
GS= 2.706

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.367	.709	.609
MINIMUM X	-.946	-.794	-.821
MAXIMUM Y	1.136	1.233	1.207
MINIMUM Y	-1.277	-1.180	-1.026
CENTROID X	.597	.445	.545
CENTROID Y	.753	.656	.502
POA TO CENTROID in.	.961	.793	.741
MIN RADIUS	.294	.444	.422
MEAN RADIUS	.995	.929	.844
MAX RADIUS	1.620	1.467	1.327
HORIZONTAL SPREAD	2.313	1.503	1.430
VERTICAL SPREAD	2.413	2.413	2.233
EXTREME SPREAD	2.706	2.706	2.393
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	9		

5 Feb 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225281

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1in = 1

2in = 4

3in = 6

HS= 3.189

VS= 2.185

GS= 3.380

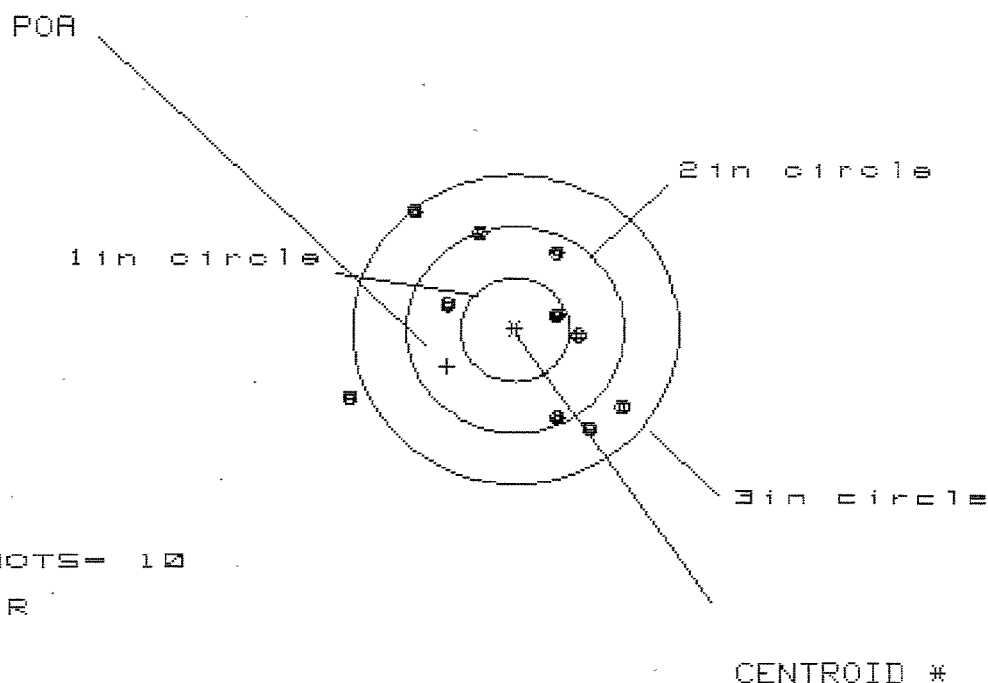
CENTROID #

PATTERN #	2		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.428	1.232	1.305
MINIMUM X	-1.761	-1.876	-1.722
MAXIMUM Y	1.263	1.205	1.083
MINIMUM Y	-.922	-.980	-.646
CENTROID X	.486	.682	.528
CENTROID Y	.509	.567	.689
POA TO CENTROID in.	.704	.887	.868
MIN RADIUS	.052	.256	.216
MEAN RADIUS	1.184	1.080	1.047
MAX RADIUS	1.836	1.883	1.722
HORIZONTAL SPREAD	3.189	3.108	3.027
VERTICAL SPREAD	2.185	2.185	1.729
EXTREME SPREAD	3.380	3.380	3.033
NUMBER IN ONE INCH CIRCLE =		1	
NUMBER IN TWO INCH CIRCLE =		4	
NUMBER IN THREE INCH CIRCLE =		6	

5 Feb 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225281

CENTERFIRE PATTERNS # 3



OF SHOTS= 10

IN CIR

1 in = 1

2 in = 5

3 in = 9

HS= 2.426

VS= 2.148

GS= 2.679

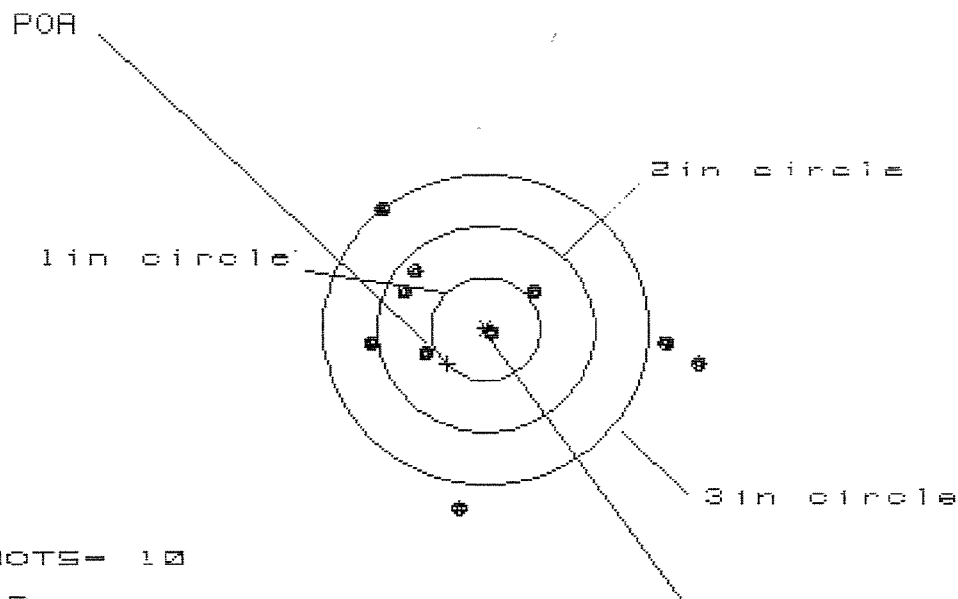
PATTERN #	3
SHOTS (BEST OF)	10
MAXIMUM X	.942
MINIMUM X	-1.484
MAXIMUM Y	1.170
MINIMUM Y	-.978
CENTROID X	.624
CENTROID Y	.351
POA TO CENTROID in.	.716
MIN RADIUS	.403
MEAN RADIUS	.994
MAX RADIUS	1.630
HORIZONTAL SPREAD	2.426
VERTICAL SPREAD	2.148
EXTREME SPREAD	2.679
NUMBER IN ONE INCH CIRCLE =	1
NUMBER IN TWO INCH CIRCLE =	5
NUMBER IN THREE INCH CIRCLE =	9

5 Feb 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225281

CENTERFIRE PATTERNS

4



OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 6

HS= 3.023

VS= 2.882

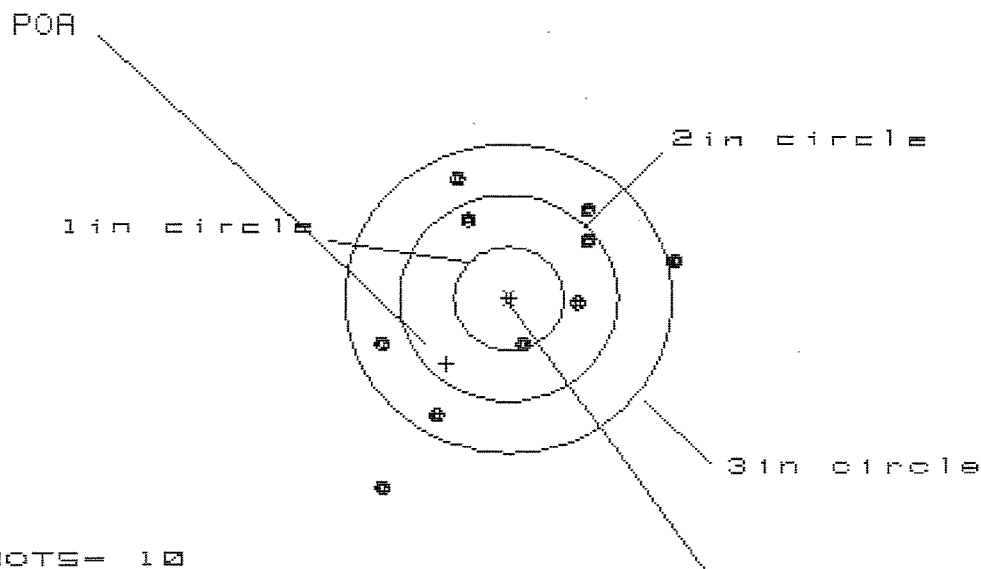
GS= 3.242

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.943	1.904	1.905
MINIMUM X	:	-1.080	-.864	-.863
MAXIMUM Y	:	1.151	1.119	.898
MINIMUM Y	:	-1.731	-1.763	-.440
CENTROID X	:	.350	.134	.133
CENTROID Y	:	.335	.367	.588
POA TO CENTROID in.	:	.485	.391	.602
MIN RADIUS	:	.093	.311	.412
MEAN RADIUS	:	1.095	.965	.848
MAX RADIUS	:	1.964	1.910	1.941
HORIZONTAL SPREAD	:	3.023	2.768	2.768
VERTICAL SPREAD	:	2.882	2.882	1.338
EXTREME SPREAD	:	3.242	2.980	2.939
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		6	

5 Feb 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225281

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 4

3 in = 8

HS= 2.726

VS= 3.018

GS= 3.512

CENTROID #

PATTERN #	5		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.559	1.429	.821
MINIMUM X	-1.167	-1.270	-1.091
MAXIMUM Y	1.208	1.007	1.033
MINIMUM Y	-1.810	-1.354	-1.328
CENTROID X	.568	.698	.519
CENTROID Y	.638	.839	.813
POA TO CENTROID in.	.854	1.091	.965
MIN RADIUS	.419	.537	.600
MEAN RADIUS	1.159	1.013	.968
MAX RADIUS	2.153	1.585	1.477
HORIZONTAL SPREAD	2.726	2.699	1.912
VERTICAL SPREAD	3.018	2.361	2.361
EXTREME SPREAD	3.512	2.822	2.486
NUMBER IN ONE INCH CIRCLE =		1	
NUMBER IN TWO INCH CIRCLE =		4	
NUMBER IN THREE INCH CIRCLE =		8	