

C5523442

MODEL 700™ M24

Model SMS™

Action

Barrel Length

Capacity

Order No. 5716

* Includes 1 in chamber.



08/22/07 07:52:19

Arms Services Repair & Estimate System

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

Repair InquiryRepair Number: **RE00133010**Serial: C6523442 Model M24 SWS Center Fire
Caliber: 7.62 NATO Produced: 12/19/1990

Repairman:

Verify Repair

High Priority

Status:

Closed 8/21/2007 11:40:07 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***C6523442**

Serial Number:

Model: M24 SWS**RE00133010**CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON**BARBER - M24 062809028230**

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6523442.___0
FILE DATE AND TIME: 09/06/2007 22:56

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

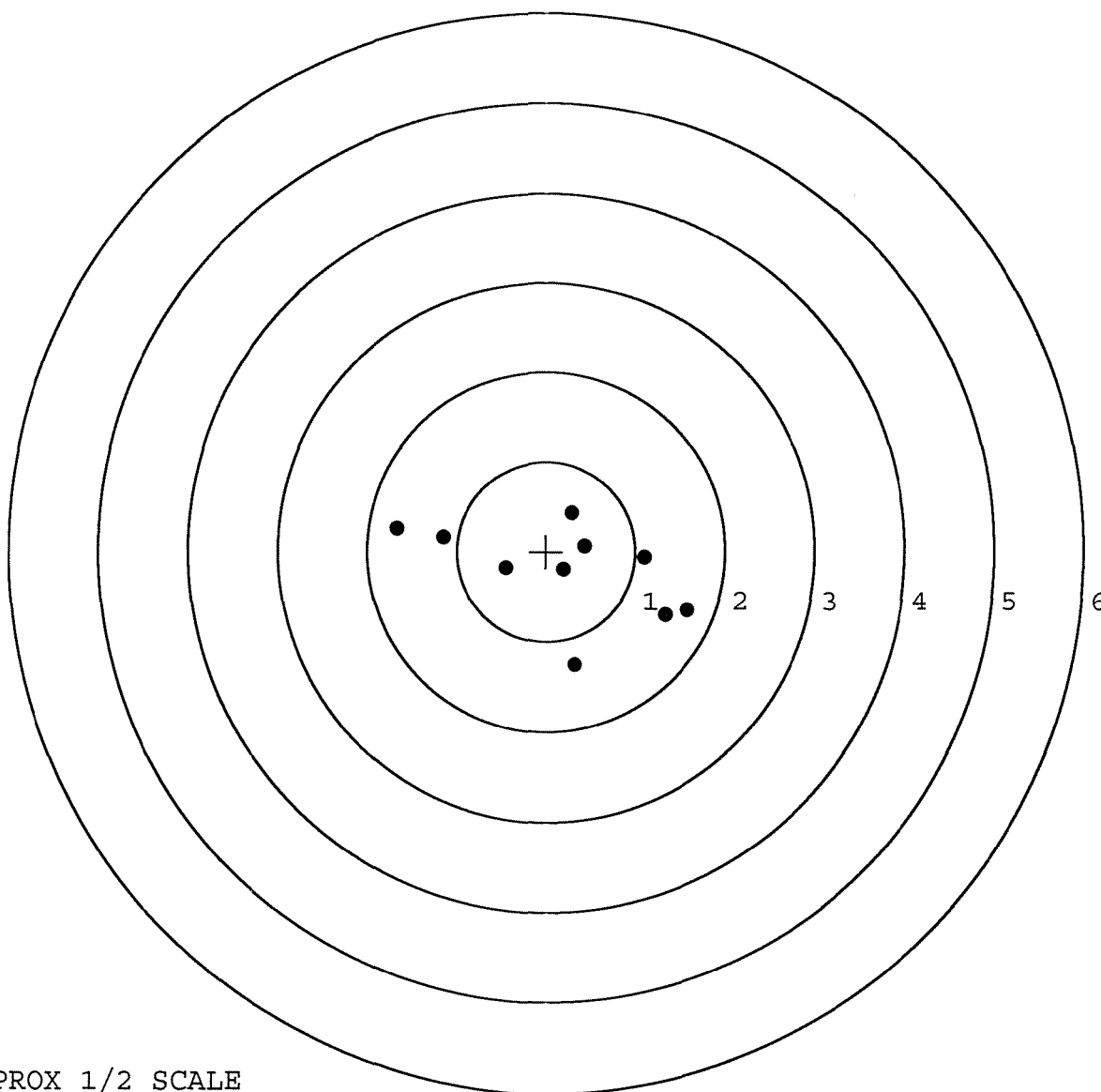
The Average X Centroid of the Five Target Set:	0.133
The Average Y Centroid of the Five Target Set:	-0.082
The Average Point of Impact of the Five Target Set:	0.157
The Average Mean Radius of the Five Target Set:	0.768
The Distance from POA to Centroid Target #1:	0.294
The Distance from Centroid Target #2 to Centroid Target #1:	0.087
The Distance from Centroid Target #3 to Centroid Target #1:	0.379
The Distance from Centroid Target #4 to Centroid Target #1:	0.286
The Distance from Centroid Target #5 to Centroid Target #1:	0.180

BARBER - M24 0028193

SERIAL NUMBER: C6523442. __0
 TARGET NUMBER: 1
 FILE DATE: 09/06/2007
 FILE TIME: 22:56

X CENTROID: 0.199
 Y CENTROID: -0.217
 POA TO CENTROID: 0.294
 HORZ SPREAD: 3.239
 VERT SPREAD: 1.692
 GROUP SPREAD: 3.363
 MIN RADIUS: 0.015
 MAX RADIUS: 1.923
 MEAN RADIUS: 0.966
 # IN 1 IN DIAMETER: 2
 # IN 2 IN DIAMETER: 5
 # in 3 IN DIAMETER: 9

POINT#	X	Y
1:	-1.668	0.247
2:	-1.152	0.159
3:	-0.452	-0.183
4:	0.292	0.432
5:	0.438	0.066
6:	0.195	-0.202
7:	1.106	-0.060
8:	1.331	-0.706
9:	1.571	-0.658
10:	0.326	-1.260



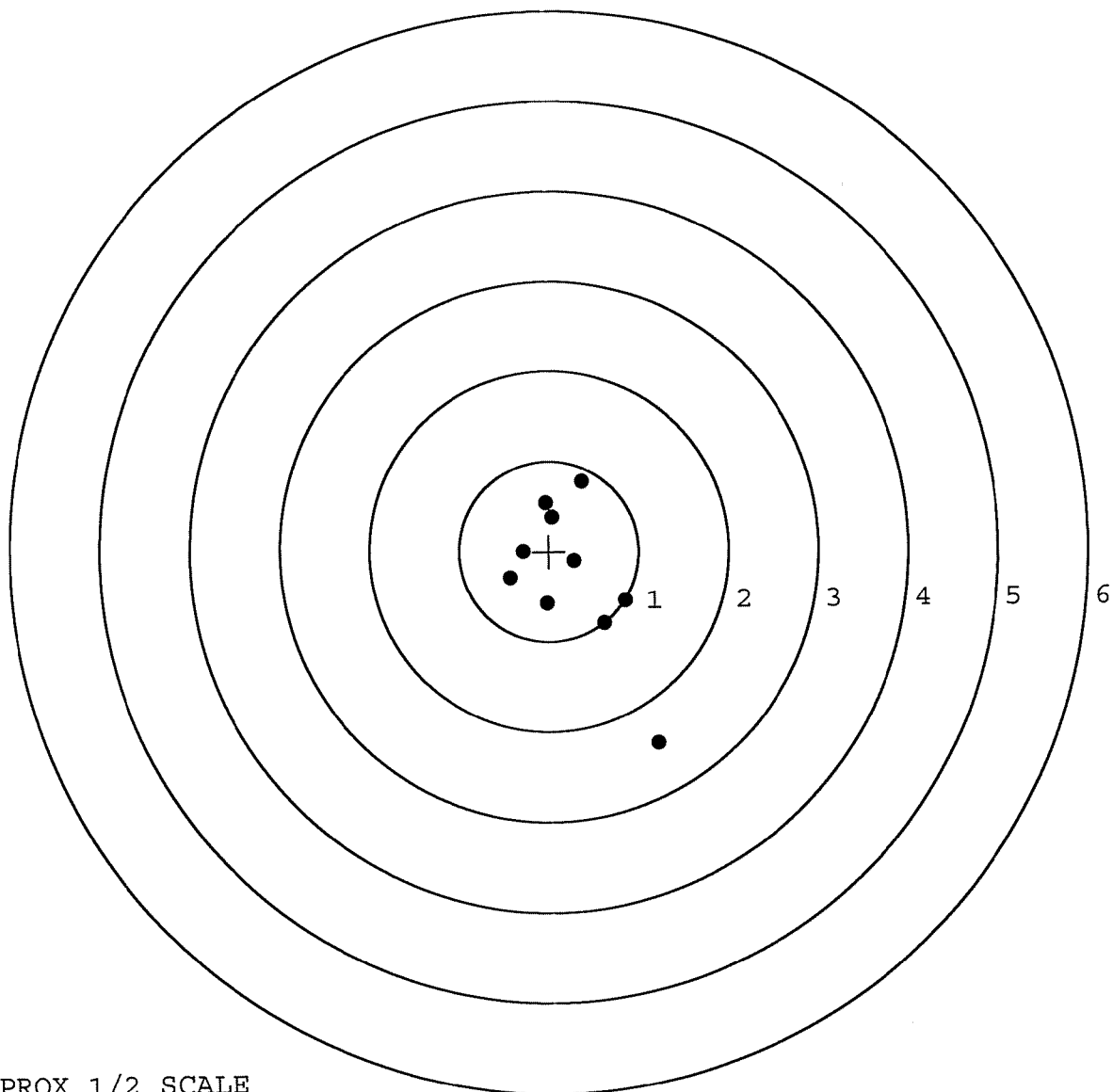
TARGET APPROX 1/2 SCALE

BARBER - M24 0028194

SERIAL NUMBER: C6523442. __0
 TARGET NUMBER: 2
 FILE DATE: 09/06/2007
 FILE TIME: 22:56

X CENTROID: 0.256
 Y CENTROID: -0.281
 POA TO CENTROID: 0.380
 HORZ SPREAD: 1.638
 VERT SPREAD: 2.916
 GROUP SPREAD: 3.030
 MIN RADIUS: 0.171
 MAX RADIUS: 2.090
 MEAN RADIUS: 0.789
 # IN 1 IN DIAMETER: 2
 # IN 2 IN DIAMETER: 8
 # in 3 IN DIAMETER: 9

POINT#	X	Y
1:	-0.038	0.537
2:	0.040	0.374
3:	0.374	0.770
4:	0.281	-0.112
5:	-0.291	0.003
6:	-0.439	-0.294
7:	-0.029	-0.583
8:	0.618	-0.805
9:	0.848	-0.556
10:	1.199	-2.146



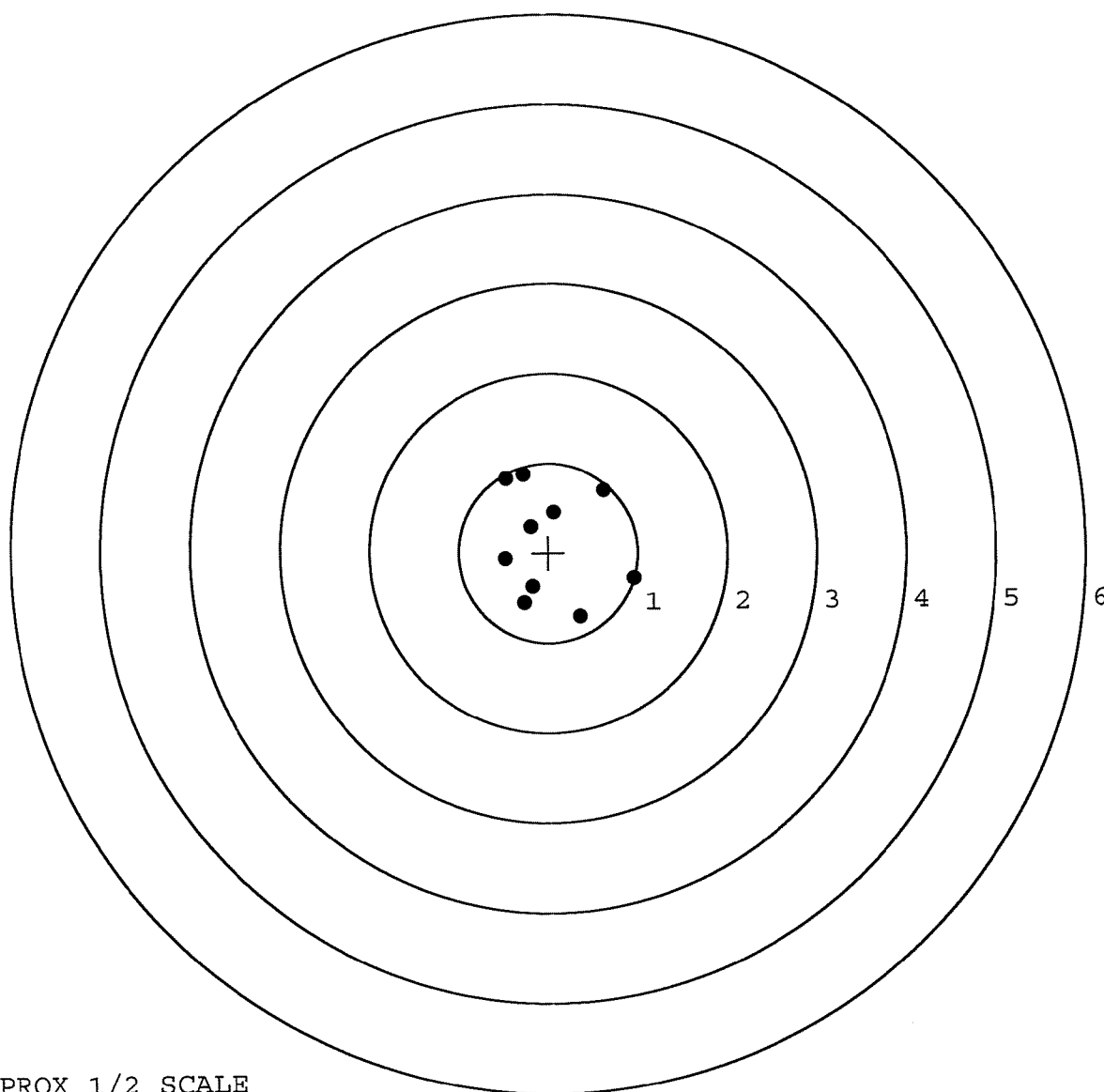
TARGET APPROX 1/2 SCALE

BARBER - M24 0028195

SERIAL NUMBER: C6523442. __0
 TARGET NUMBER: 3
 FILE DATE: 09/06/2007
 FILE TIME: 22:56

X CENTROID: 0.012
 Y CENTROID: 0.113
 POA TO CENTROID: 0.113
 HORZ SPREAD: 1.437
 VERT SPREAD: 1.592
 GROUP SPREAD: 1.813
 MIN RADIUS: 0.274
 MAX RADIUS: 1.028
 MEAN RADIUS: 0.686
 # IN 1 IN DIAMETER: 2
 # IN 2 IN DIAMETER: 9
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.468	0.830
2:	-0.279	0.876
3:	-0.199	0.287
4:	0.064	0.453
5:	0.629	0.696
6:	0.957	-0.291
7:	0.354	-0.716
8:	-0.182	-0.376
9:	-0.278	-0.562
10:	-0.480	-0.070



TARGET APPROX 1/2 SCALE

BARBER - M24 0028196

SERIAL NUMBER: C6523442. __0

TARGET NUMBER: 4

FILE DATE: 09/06/2007

FILE TIME: 22:56

X CENTROID: 0.125

Y CENTROID: 0.060

POA TO CENTROID: 0.138

HORZ SPREAD: 1.638

VERT SPREAD: 1.641

GROUP SPREAD: 1.848

MIN RADIUS: 0.138

MAX RADIUS: 0.998

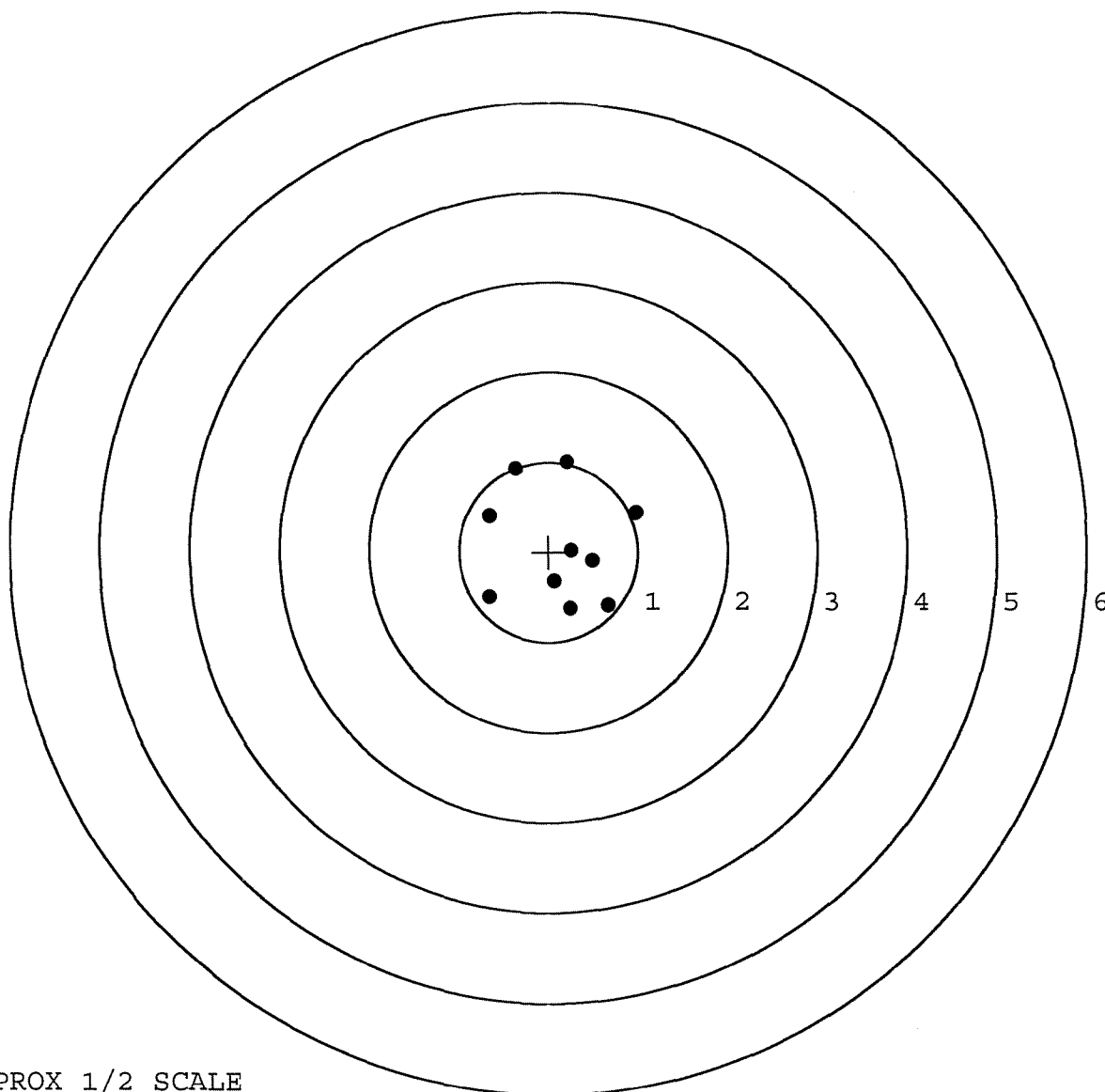
MEAN RADIUS: 0.721

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.370	0.926
2:	0.212	1.001
3:	-0.658	0.399
4:	0.979	0.435
5:	0.257	0.019
6:	0.497	-0.103
7:	0.062	-0.331
8:	0.248	-0.640
9:	0.679	-0.595
10:	-0.659	-0.513



TARGET APPROX 1/2 SCALE

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

BARBER - M24 0028196 0028235

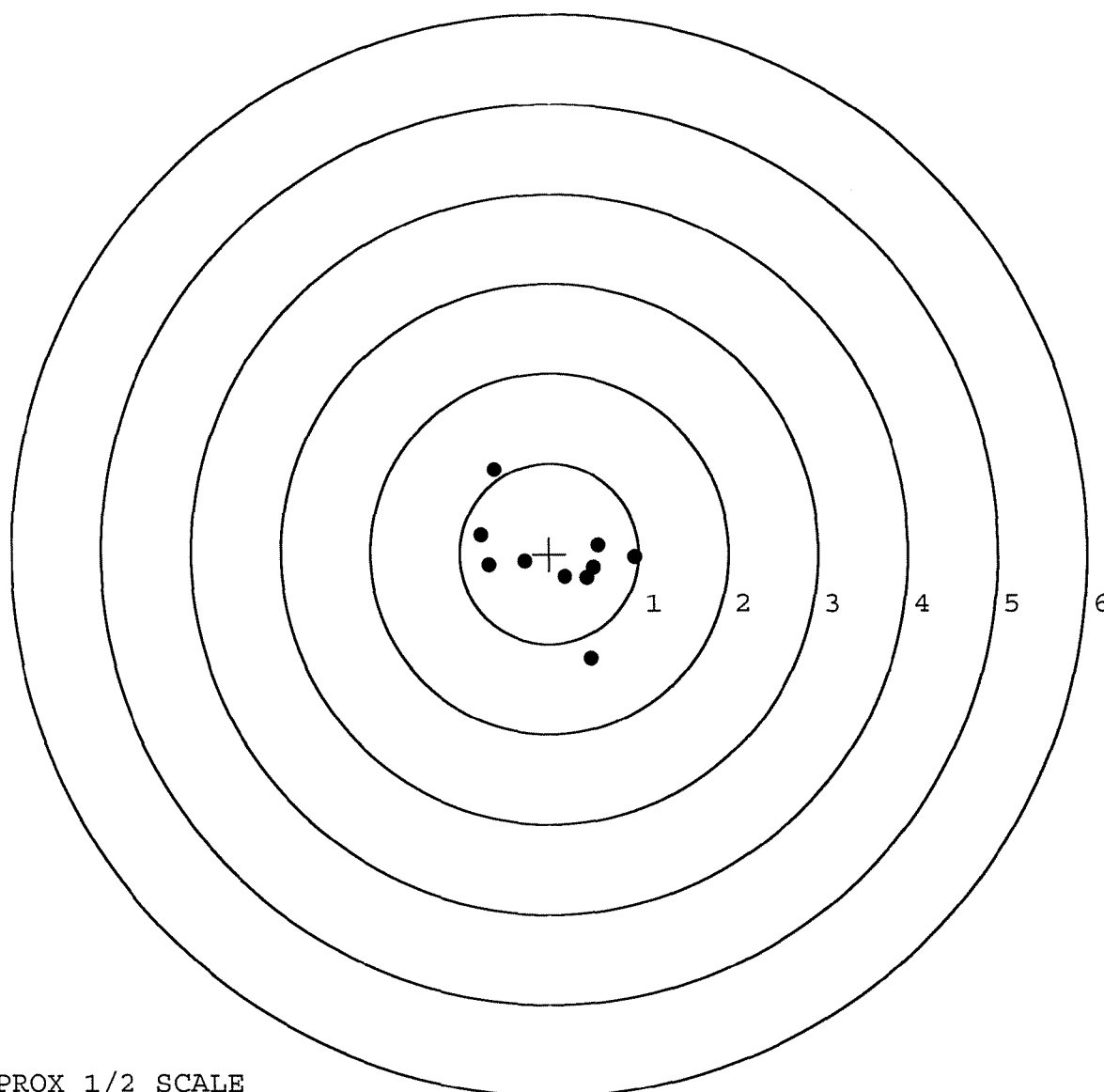
BARBER - M24 0028197

SERIAL NUMBER: C6523442. __0
 TARGET NUMBER: 5
 FILE DATE: 09/06/2007
 FILE TIME: 22:56

X CENTROID: 0.075
 Y CENTROID: -0.085
 POA TO CENTROID: 0.114
 HORZ SPREAD: 1.720
 VERT SPREAD: 2.092
 GROUP SPREAD: 2.357
 MIN RADIUS: 0.200
 MAX RADIUS: 1.225
 MEAN RADIUS: 0.678

IN 1 IN DIAMETER: 4
 # IN 2 IN DIAMETER: 8
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.617	0.925
2:	-0.761	0.208
3:	-0.674	-0.128
4:	-0.276	-0.082
5:	0.180	-0.256
6:	0.426	-0.267
7:	0.548	0.102
8:	0.959	-0.036
9:	0.469	-1.167
10:	0.496	-0.154



TARGET APPROX 1/2 SCALE

R & E NUMBER 133018SERIAL NUMBER C6523442LOG-IN DATE 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	nom
605	CHECK HEADSPACE	8-23-07	nom
610	DIS-ASSEMBLE GUN	8-25-07	RTZ
612	MAGNAFLUX	8-30-07	JB
510	DRILL AND TAP	8-27-07	TRW
615	ROLLMARK CALIBER	8-28-07	CW
618	ROTO-BLAST	8-30-07	UY
620	APPLY COATINGS	8/31/07	RTZ
625	FINAL ASSEMBLY	9-6-07	RTZ
640	FUNCTION TEST AND	9/6/07	nom
650	TARGET	9/6/07	nom
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION	9-11-07	RTZ
	A) HEADSPACE	9-11-07	RTZ
	B) TRIGGER PULL	2.92 2.90 2.93 2.91 2.93 9-10-07	DA
680	F) SAFETY ON FORCE	6.0 6.0 6.0 9-11-07	RTZ
	G) SAFETY OFF FORCE	2.25 2.25 2.25 9-11-07	RTZ
	I) FIRING PIN INDENT	.021 .021 .022	
690	PACK	9-11-07	DA

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

Remington®
REG. U.S. PAT. & TM. OFF.

MODEL 700™ M24

SERIAL NO.
C6523442

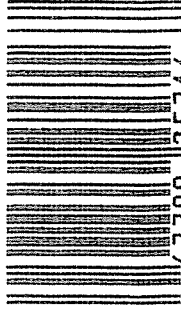
ORDER NO.
5716

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



5716 C6523442

UPC



0 47700 25716 7

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6523442

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	10 3	90	RW
600	Proof	10 3	90	RW
607	Check Headspace	10 3	90	RW
610	Dis-assemble Gun	10 3	90	RW
612	Magnaflux Barrel Action		10/11/90	KR
	Magnaflux Bolt		10/11/90	KR
615	Rollmark Caliber		10/11/90	GL
617	Drill and Tap Sight Holes		10/11/90	KB
618	Polish Barrel RWB		10/12/90	WB
620	Apply Coatings (Barrel Action)		10-18-90	TJA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		10/22/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		10/22/90	RW
	C) Inspect Ejector Hole for Chamfer		10/22/90	RW
	D) Oil Firing Pin Ass'y		10/22/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		11-6-90	HL

BARBER - M24 0028201

op. #	OP. NAME	READINGS				DATE	INIT	
625 cont.	F) Safety On Force	4	4	4		11/6/90	WB	
	G) Safety Off Force	2 1/2	2 1/2	2 1/2		11/6/90	WB	
	H) Trigger Pull Test & Retainability					11-6-90	JF	
	I) Firing Pin Indent	020	021	0205		11/6/90	WB	
	J) Assemble Stock					11/6/90	RW	
	K) Assemble Swivel Studs					11/19/90	JSS	
	L) Attach Front and Rear Sight Assemblies					11/6/90	RW	
	M) Iron Sight Alignment					11/6/90	RW	
	N) Detach Front & Rear Sights & place in numbered container					11/6/90	RW	
	O) Attach Scope to Rifle					11/6/90	RW	
	P) Detach & Attach Scope 20 Times					11/6/90	RW	
640	Gallery Target & Test					11/7/90	NF	
	A) Time					"	NF	
	B) Malfunctions					"	NF	
	C) Pierced Primers					"	NF	
	D) Optical Clarity of Scope					"	NF	
645	Inspect for Live Ammo					11/7/90	NF	
655	Final Inspection							
	A) Headspace					11/19/90	JSS	
	B) Trigger Pull	286	295	291	293	294	11/19/90	JSS
	C) Function						11/19/90	JSS
660	Pack					12/18/90	NF	

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6523442

DATE 11-6-90

TESTER JH

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.46	2.50	2.41	2.86	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.50	2.45	2.43	2.95	
PULL #3	2.42	2.46	2.49	2.91	
PULL #4	2.45	2.46	2.47	2.93	
PULL #5	2.49	2.15	2.45	2.94	
TOTAL	12.32	12.02	12.25		
AVG.	2.464	2.404	2.45		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.55	3.49		
PULL #2	3.39	3.49		
PULL #3	3.49	3.50		
PULL #4	3.50	3.46		
PULL #5	3.48	3.45		
TOTAL	17.41	17.39		
AVG.	3.482	3.478		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.78	4.44		4.28
PULL #2	4.21	4.42		4.49
PULL #3	4.10	4.44		4.48
PULL #4	4.22	4.34		4.41
PULL #5	4.24	4.40		4.21
TOTAL	20.95	22.04		21.87
AVG.	4.19	4.408		4.374

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 6523442
8 Nov 1990

CENTROIDAL DISTANCES

0 TO	1	.145417
1 TO	2	.198829
1 TO	3	.220057
1 TO	4	.267047
1 TO	5	.176664

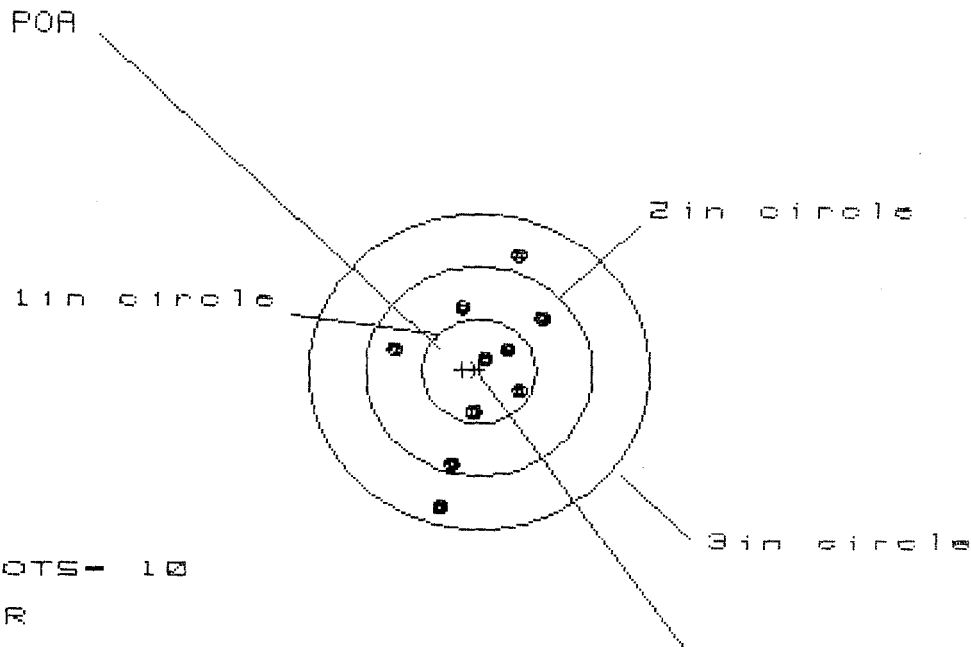
$\bar{r}_2$ <----POB

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .1348
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0392
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .140384
THE AMP FOR THIS RIFLE IS: .8606

8 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523442

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1 in - 4

2 in - 8

3 in = 10

HS- 1.263

VS= 2.486

GS= 2.594

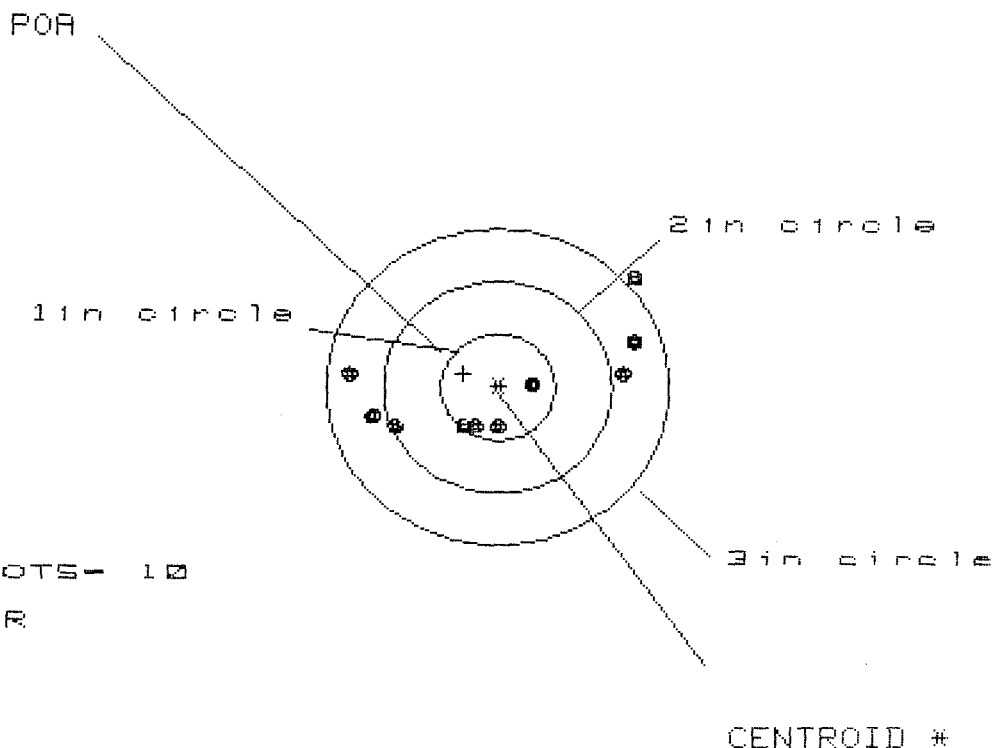
CENTROID #

PATTERN #	:	1	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.533	.490	.527
MINIMUM X	:	-.730	-.773	-.736
MAXIMUM Y	:	1.152	1.004	.566
MINIMUM Y	:	-1.334	-1.064	-.939
CENTROID X	:	.145	.188	.151
CENTROID Y	:	-.011	.137	.012
POA TO CENTROID in.	:	.145	.233	.151
MIN RADIUS	:	.170	.057	.148
MEAN RADIUS	:	.695	.588	.540
MAX RADIUS	:	1.391	1.097	.966
HORIZONTAL SPREAD	:	1.263	1.263	1.263
VERTICAL SPREAD	:	2.486	2.068	1.505
EXTREME SPREAD	:	2.594	2.145	1.604
NUMBER IN ONE INCH CIRCLE	=	4		
NUMBER IN TWO INCH CIRCLE	=	8		
NUMBER IN THREE INCH CIRCLE	=	10		

8 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06523442

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1in = 4

2in = 5

3in = 9

HS= 2.514

VS= 1.388

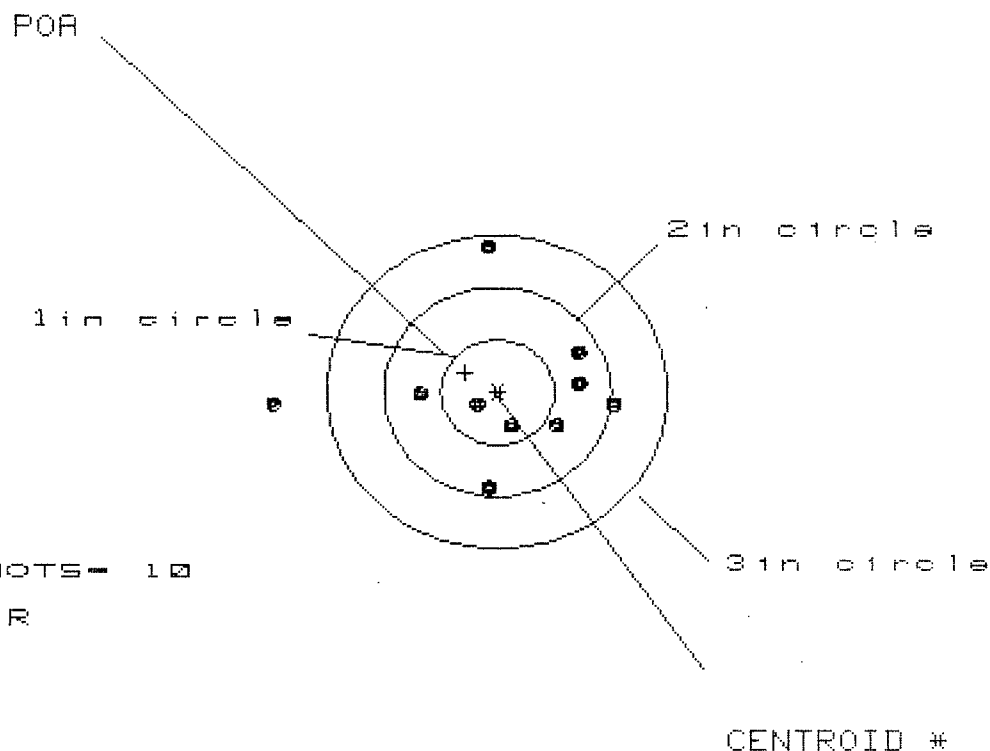
GS= 2.624

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.225	1.358	1.214
MINIMUM X	:	-1.289	-1.156	-1.140
MAXIMUM Y	:	.984	.526	.559
MINIMUM Y	:	-.404	-.294	-.261
CENTROID X	:	.302	.169	.313
CENTROID Y	:	-.133	-.242	-.275
POA TO CENTROID in.	:	.330	.295	.417
MIN RADIUS	:	.269	.266	.261
MEAN RADIUS	:	.886	.775	.716
MAX RADIUS	:	1.551	1.456	1.336
HORIZONTAL SPREAD	:	2.514	2.514	2.354
VERTICAL SPREAD	:	1.388	.820	.820
EXTREME SPREAD	:	2.624	2.527	2.440
NUMBER IN ONE INCH CIRCLE	=		4	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		9	

8 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/08523442

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 7

3 in = 9

HS= 3.002

VS= 2.230

GS= 3.003

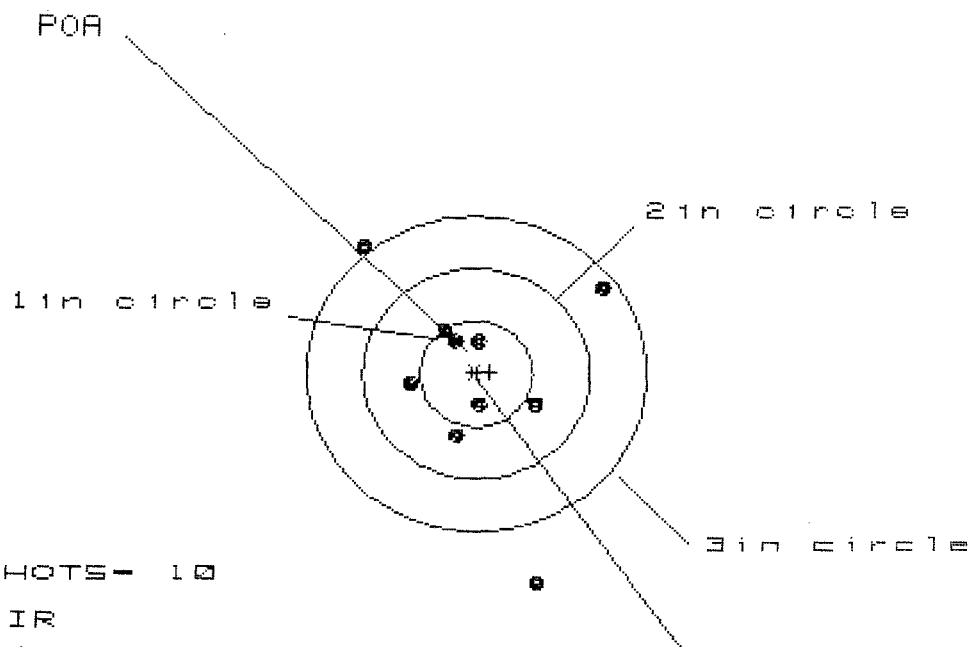
CENTROID *

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.998	.775	.732
MINIMUM X	:	-2.004	-.940	-.983
MAXIMUM Y	:	1.344	1.329	.572
MINIMUM Y	:	-.886	-.901	-.735
CENTROID X	:	.281	.504	.547
CENTROID Y	:	-.184	-.169	-.335
POA TO CENTROID in.	:	.336	.531	.642
MIN RADIUS	:	.255	.321	.182
MEAN RADIUS	:	.875	.715	.596
MAX RADIUS	:	2.009	1.374	.997
HORIZONTAL SPREAD	:	3.002	1.715	1.715
VERTICAL SPREAD	:	2.230	2.230	1.307
EXTREME SPREAD	:	3.003	2.231	1.717
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	

8 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523442

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1in = 4

2in = 7

3in = 8

HS= 2.136

VS= 3.132

GS= 3.448

CENTROID #

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.166	1.218	1.104
MINIMUM X	:	-.970	-.918	-.601
MAXIMUM Y	:	1.198	.984	.701
MINIMUM Y	:	-1.933	-.781	-.658
CENTROID X	:	-.122	-.174	-.060
CENTROID Y	:	-.016	.198	.075
POA TO CENTROID in.	:	.123	.264	.096
MIN RADIUS	:	.239	.085	.219
MEAN RADIUS	:	.807	.645	.570
MAX RADIUS	:	1.990	1.348	1.307
HORIZONTAL SPREAD	:	2.136	2.136	1.705
VERTICAL SPREAD	:	3.132	1.765	1.359
EXTREME SPREAD	:	3.448	2.174	1.925
NUMBER IN ONE INCH CIRCLE	=		4	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		8	

8 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06523442

CENTERFIRE PATTERNS

5

POA

1in circle

2in circle

3in circle

OF SHOTS - 10

IN CIR

1in = 2

2in = 5

3in = 9

CENTROID #

HS= 3.0000

VS= 3.202

GS= 3.714

PATTERN #	5		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.591	1.494	.769
MINIMUM X	-1.409	-1.232	-1.046
MAXIMUM Y	1.184	.960	1.000
MINIMUM Y	-2.018	-.923	-.884
CENTROID X	.068	-.109	-.295
CENTROID Y	.148	.372	.333
POA TO CENTROID in.	.163	.388	.445
MIN RADIUS	.158	.300	.171
MEAN RADIUS	1.040	.837	.748
MAX RADIUS	2.570	1.527	1.144
HORIZONTAL SPREAD	3.000	2.726	1.815
VERTICAL SPREAD	3.202	1.883	1.883
EXTREME SPREAD	3.714	2.751	2.076
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		5	
NUMBER IN THREE INCH CIRCLE =		9	