

C5348718

MODEL 780TM M24

Model **SMS** TM

Action

Barrel Length

Capacity

Order No. **5715**

*Includes 1 in chamber.



SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6348718.___0
FILE DATE AND TIME: 09/06/2005 07:00

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

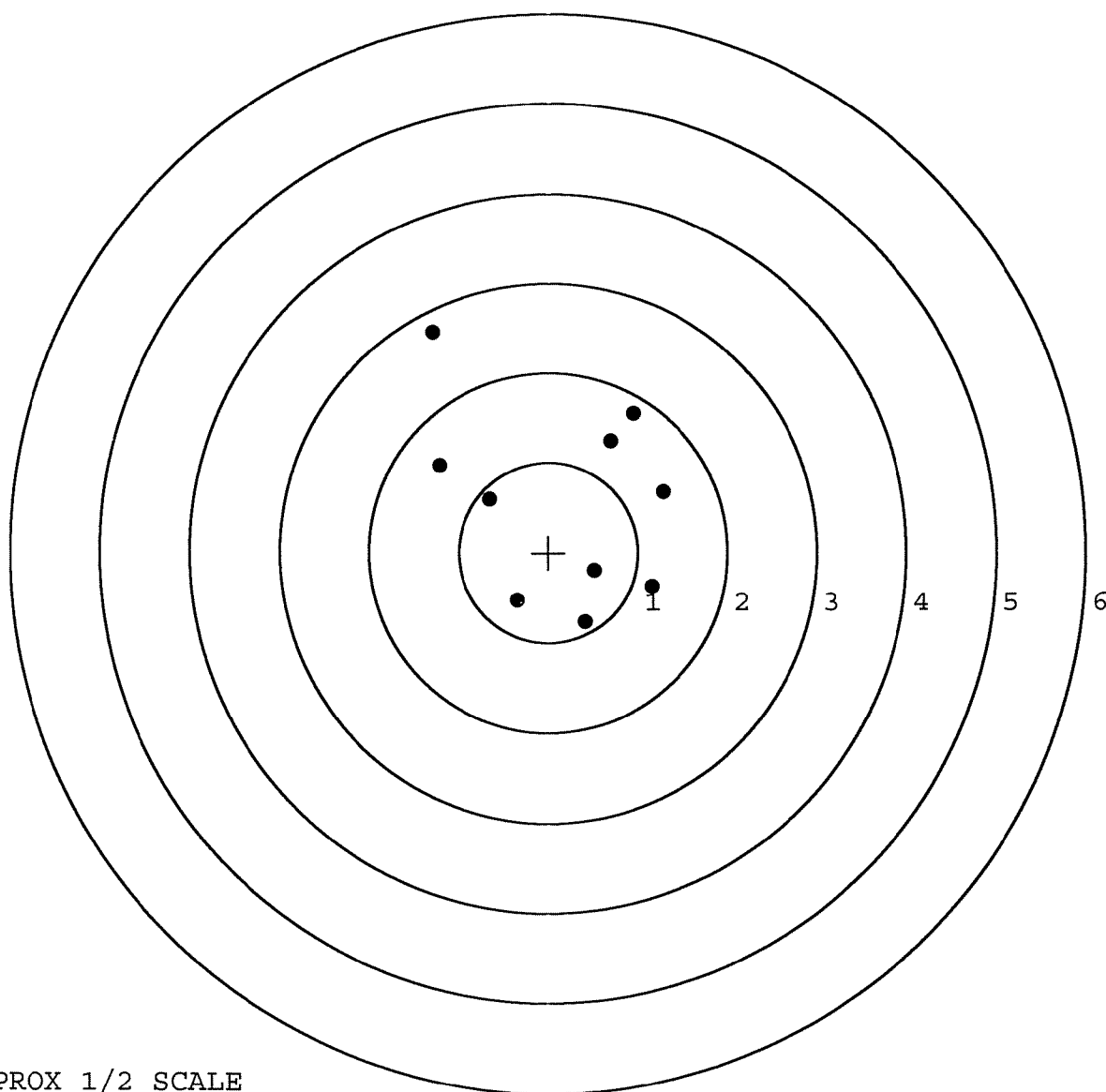
The Average X Centroid of the Five Target Set:	0.117
The Average Y Centroid of the Five Target Set:	0.087
The Average Point of Impact of the Five Target Set:	0.146
The Average Mean Radius of the Five Target Set:	0.921
The Distance from POA to Centroid Target #1:	0.576
The Distance from Centroid Target #2 to Centroid Target #1:	0.514
The Distance from Centroid Target #3 to Centroid Target #1:	0.646
The Distance from Centroid Target #4 to Centroid Target #1:	0.536
The Distance from Centroid Target #5 to Centroid Target #1:	0.692

SERIAL NUMBER: C6348718. __0
 TARGET NUMBER: 1
 FILE DATE: 09/06/2005
 FILE TIME: 07:00

X CENTROID: 0.150
 Y CENTROID: 0.556
 POA TO CENTROID: 0.576
 HORZ SPREAD: 2.576
 VERT SPREAD: 3.225
 GROUP SPREAD: 3.742
 MIN RADIUS: 0.809
 MAX RADIUS: 2.380
 MEAN RADIUS: 1.267

IN 1 IN DIAMETER: 0
 # IN 2 IN DIAMETER: 3
 # in 3 IN DIAMETER: 9

POINT#	X	Y
1:	1.156	-0.381
2:	0.414	-0.778
3:	0.519	-0.201
4:	-0.347	-0.534
5:	1.282	0.671
6:	0.698	1.238
7:	0.953	1.541
8:	-0.658	0.590
9:	-1.218	0.963
10:	-1.294	2.447



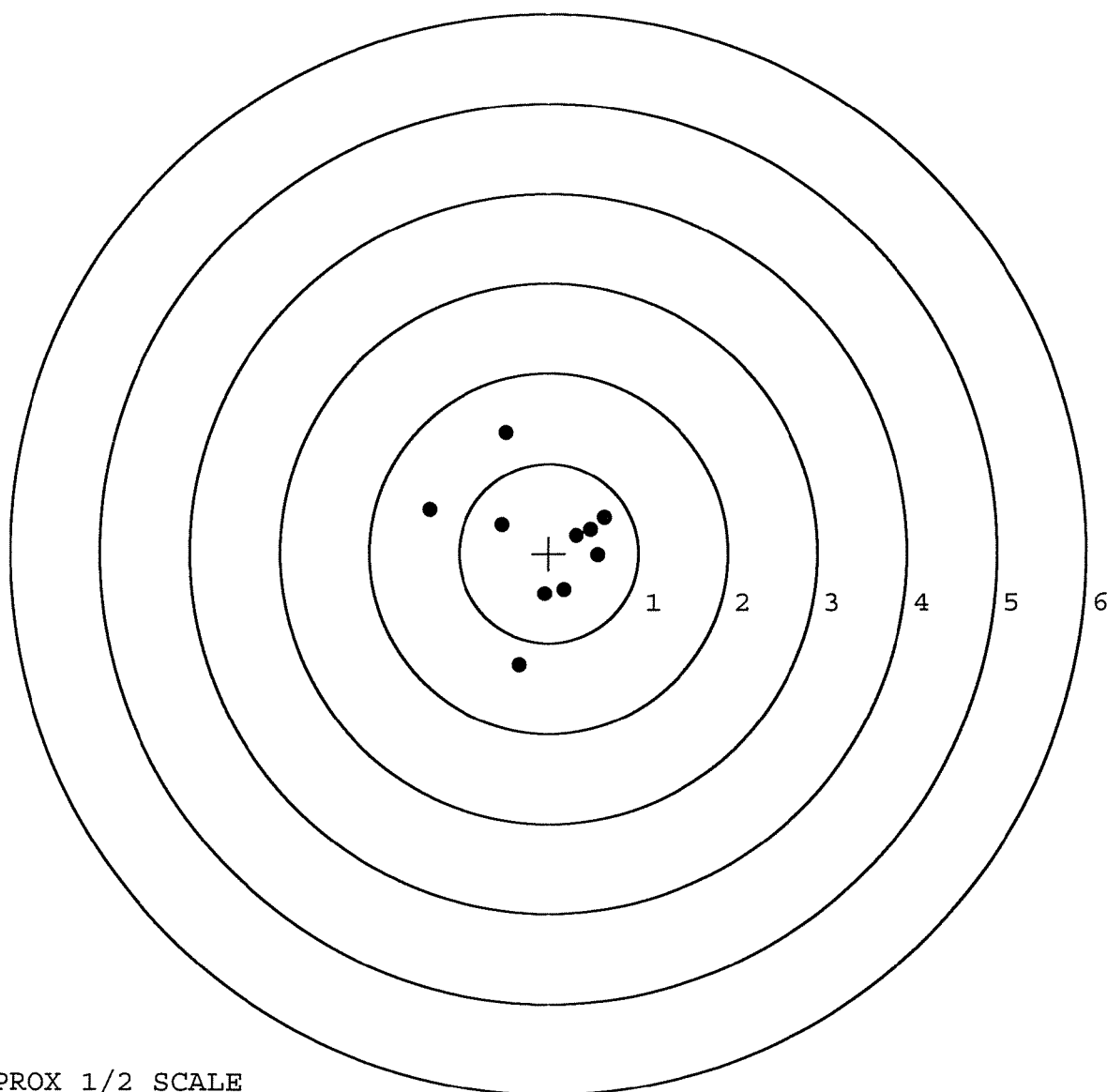
TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6348718. __0
 TARGET NUMBER: 2
 FILE DATE: 09/06/2005
 FILE TIME: 07:00

X CENTROID: -0.058
 Y CENTROID: 0.085
 POA TO CENTROID: 0.103
 HORZ SPREAD: 1.952
 VERT SPREAD: 2.591
 GROUP SPREAD: 2.595
 MIN RADIUS: 0.386
 MAX RADIUS: 1.360
 MEAN RADIUS: 0.794

IN 1 IN DIAMETER: 1
 # IN 2 IN DIAMETER: 7
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.171	-0.409
2:	-0.052	-0.459
3:	-0.328	-1.248
4:	0.552	-0.025
5:	0.621	0.397
6:	0.471	0.262
7:	0.312	0.196
8:	-0.522	0.315
9:	-1.331	0.482
10:	-0.477	1.343

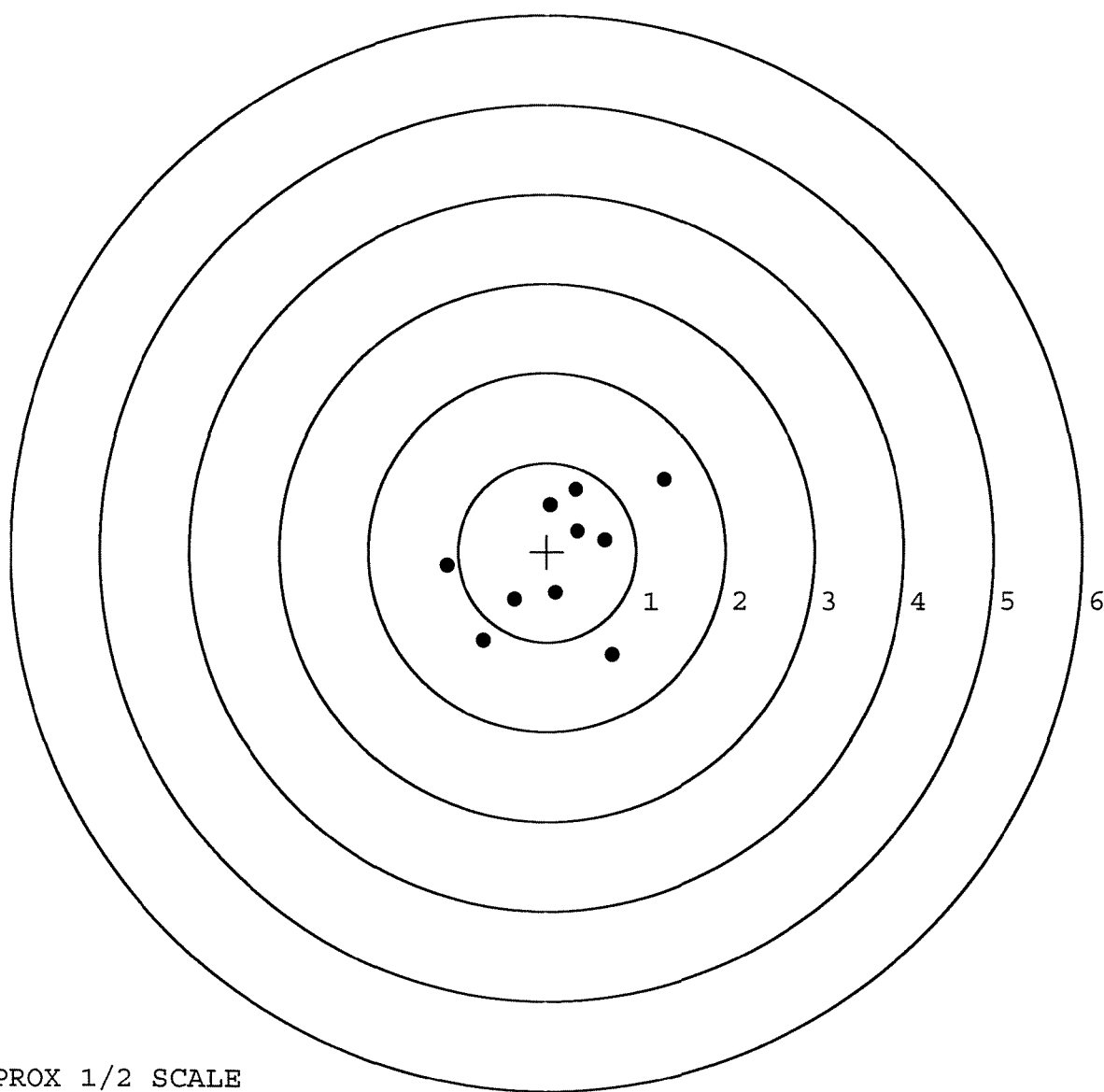


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6348718. __0
TARGET NUMBER: 3
FILE DATE: 09/06/2005
FILE TIME: 07:00

X CENTROID: 0.131
Y CENTROID: -0.090
POA TO CENTROID: 0.159
HORZ SPREAD: 2.435
VERT SPREAD: 1.957
GROUP SPREAD: 2.710
MIN RADIUS: 0.367
MAX RADIUS: 1.487
MEAN RADIUS: 0.860
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 6
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.735	-1.145
2:	1.313	0.812
3:	0.653	0.129
4:	0.346	0.227
5:	0.325	0.700
6:	0.037	0.522
7:	0.097	-0.455
8:	-0.361	-0.538
9:	-0.710	-0.991
10:	-1.122	-0.162



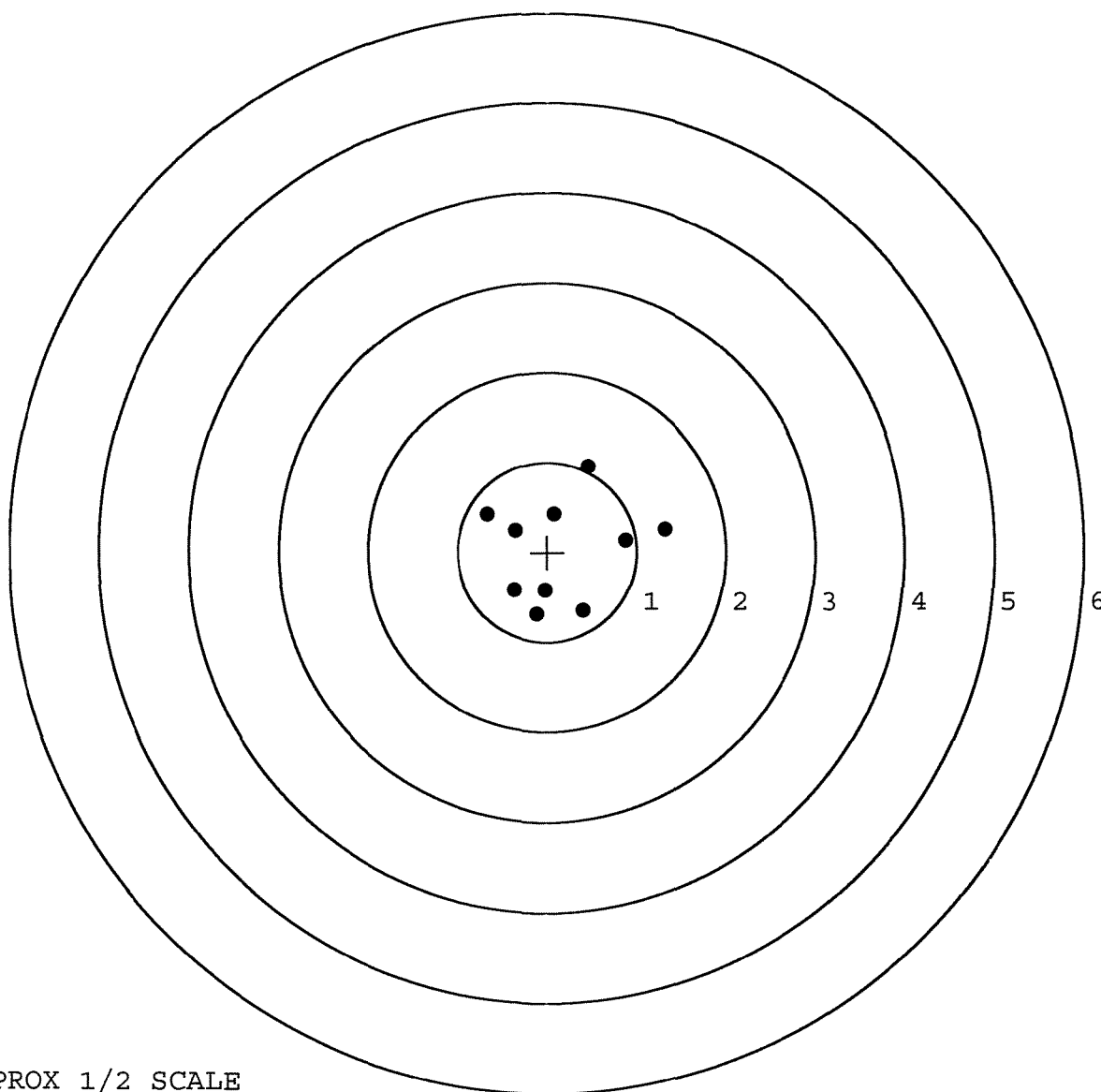
TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6348718. __0
TARGET NUMBER: 4
FILE DATE: 09/06/2005
FILE TIME: 07:00

X CENTROID: 0.162
Y CENTROID: 0.020
POA TO CENTROID: 0.163
HORZ SPREAD: 1.992
VERT SPREAD: 1.647
GROUP SPREAD: 1.999
MIN RADIUS: 0.413
MAX RADIUS: 1.180
MEAN RADIUS: 0.745

IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	1.319	0.253
2:	0.876	0.133
3:	0.409	-0.659
4:	-0.021	-0.431
5:	-0.115	-0.696
6:	-0.361	-0.431
7:	0.077	0.424
8:	0.462	0.951
9:	-0.355	0.237
10:	-0.673	0.420



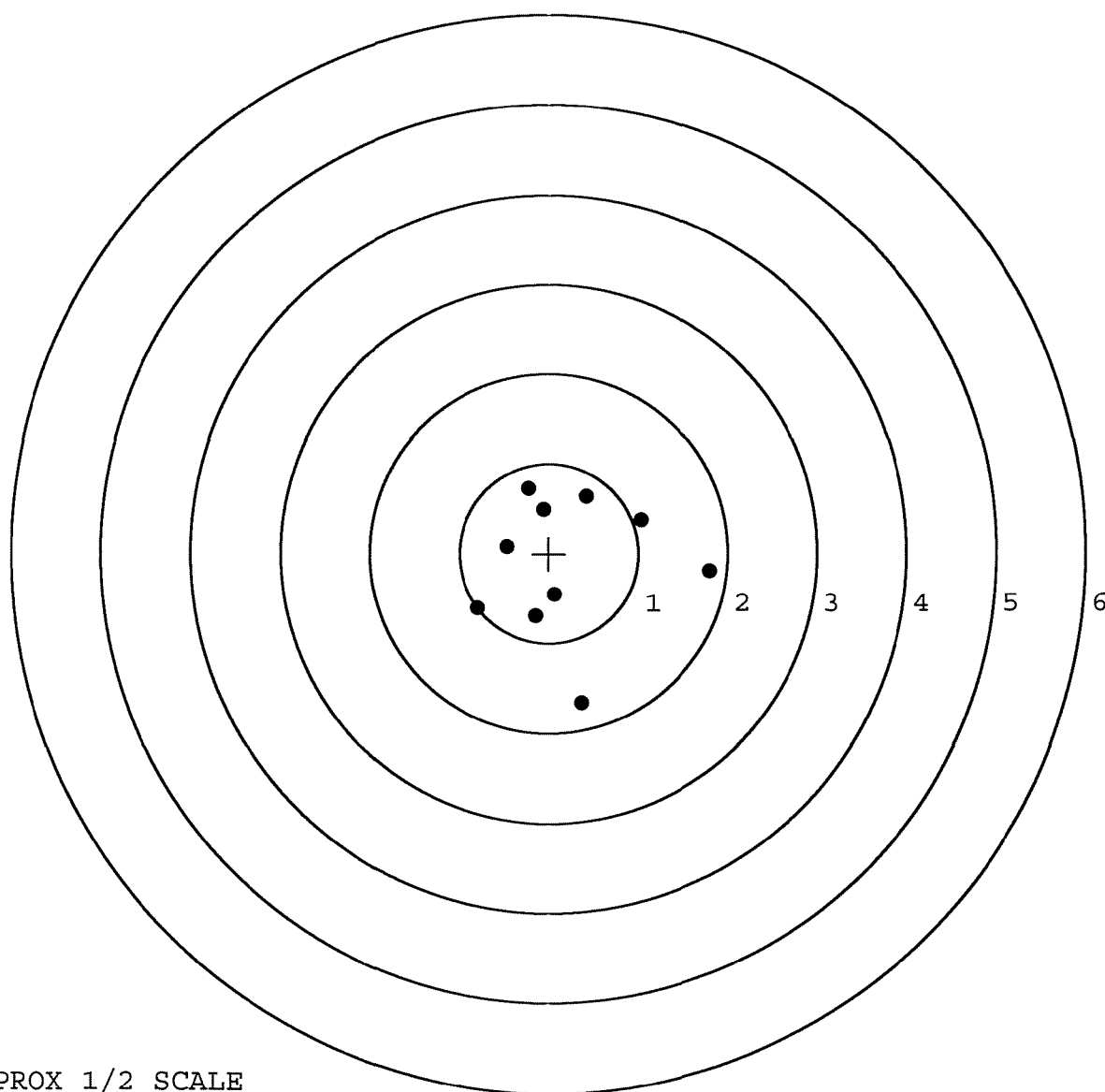
TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6348718. __0
TARGET NUMBER: 5
FILE DATE: 09/06/2005
FILE TIME: 07:00

X CENTROID: 0.198
Y CENTROID: -0.135
POA TO CENTROID: 0.239
HORZ SPREAD: 2.593
VERT SPREAD: 2.391
GROUP SPREAD: 2.625
MIN RADIUS: 0.355
MAX RADIUS: 1.601
MEAN RADIUS: 0.938

IN 1 IN DIAMETER: 1
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 8

POINT#	X	Y
1:	1.797	-0.205
2:	1.029	0.377
3:	0.376	-1.667
4:	0.062	-0.463
5:	-0.152	-0.705
6:	-0.796	-0.614
7:	0.423	0.637
8:	-0.232	0.724
9:	-0.061	0.488
10:	-0.468	0.079



TARGET APPROX 1/2 SCALE

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

R & E NUMBER	92441		
SERIAL NUMBER	C6348718		
LOG-IN DATE	2-3-05		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	8-16-05	RTZ
560 A	RE-BARREL	8-23-05	RTZ
B	DRILL AND TAP	8-25-05	TRW
575	ASSEMBLE	8-24-05	RTZ
600	PROOF	8-24-05	AC
605	CHECK HEADSPACE	8-24-05	AC
610	DIS-ASSEMBLE GUN	8-25-05	RTZ
612	MAGNAFLUX	8/25/05	RTZ
615	ROLLMARK CALIBER	8-25-05	CW
618	ROTO-BLAST	8-26-05	LB
620	APPLY COATINGS	8/29/05	BB
625 A	FINAL ASSEMBLY	8-31-05	RTZ
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE	9-6-05	AC
D	SAFETY "OFF" FORCE	9-6-05	AC
E	FIRING PIN INDENT	9-6-05	AC
640	TARGET	9-6-05	TRW
655	FINAL INSPECT	9-6-05	AC
660	PACK	9-10-05	DA
		SHIP DATE	
		QAR INSPECTION DATE	

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6348718

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		10-9 89	RW
600	Proof		10-9 89	A
607	Check Headspace		10-9 89	RW
610	Dis-assemble Gun		10-9 89	RW
612	Magnaflux Barrel Action		10/31/89	KCR
	Magnaflux Bolt		10/31/89	KCR
615	Rollmark Caliber			
.7	Drill and Tap Sight Holes			
618	Polish Barrel			
620	Apply Coatings (Barrel Action)		11-3-89	TJA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		11-10-89	A
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		11-10-89	AC
	C) Inspect Ejector Hole for Chamfer		11-10-89	AC
	D) Oil Firing Pin Ass'y		11-10-89	AC
	E) Adjust Trigger Pull to Min Setting and Stake		11/10/89	gds

op. #	OP. NAME	READINGS			DATE	INIT
625 cont.	F) Safety On Force	5	4	4	16 Nov 89	JS
	G) Safety Off Force	3	3	3	16 Nov 89	JS
	H) Trigger Pull Test & Retainability				16 Nov 89	JS
	I) Firing Pin Indent	.021	.021	.021	16 Nov 89	JS
	J) Assemble Stock				11-30-89	AC
	K) Assemble Swivel Studs				5 Dec 89	JS
	L) Attach Front and Rear Sight Assemblies				11-30-89	AC
	M) Iron Sight Alignment				11-30-89	AC
	N) Detach Front & Rear Sights & place in numbered container				11-30-89	AC
	O) Attach Scope to Rifle				30 Nov 89	JS
	P) Detach & Attach Scope 20 Times				30 Nov 89	JS
640	Gallery Target & Test				12-4-89	K
	A) Time				12-4-89	A
	B) Malfunctions				12-4-89	A
	C) Pierced Primers				12-4-89	A
	D) Optical Clarity of Scope				12-4-89	A
645	Inspect for Live Ammo				12-4-89	A
655	Final Inspection				5 Dec 89	JS
	A) Headspace				5 Dec 89	JS
	B) Trigger Pull	2.31	2.20	2.00	5 Dec 89	JS
	C) Function				5 Dec 89	JS
660	Pack				13 Dec 89	JS

RC-28

SWS TRIGGER PULL TESTAVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6348718DATE 10 Mar 90TESTER JS

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	260	258		260	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	250	256		266	
PULL #3	264	257		257	
PULL #4	268	253		258	
PULL #5	264	242		262	
TOTAL	1306	1266		1303	
AVG.	261.2	253.2		260.6	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	340	330		
PULL #2	339	326		
PULL #3	341	304		
PULL #4	330	320		
PULL #5	339	321		
TOTAL	1689	1601		
AVG.	3.374	3.202		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	424	414		
PULL #2	422	391		
PULL #3	420	419		
PULL #4	421	418		
PULL #5	418	416		
TOTAL	2105	2058		
AVG.	421	411.6		

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6348718
4 Dec 1989

CENTROIDAL DISTANCES

0 TO	1	.277137
1 TO	2	.25866
1 TO	3	.368353
1 TO	4	.464841
1 TO	5	.391552

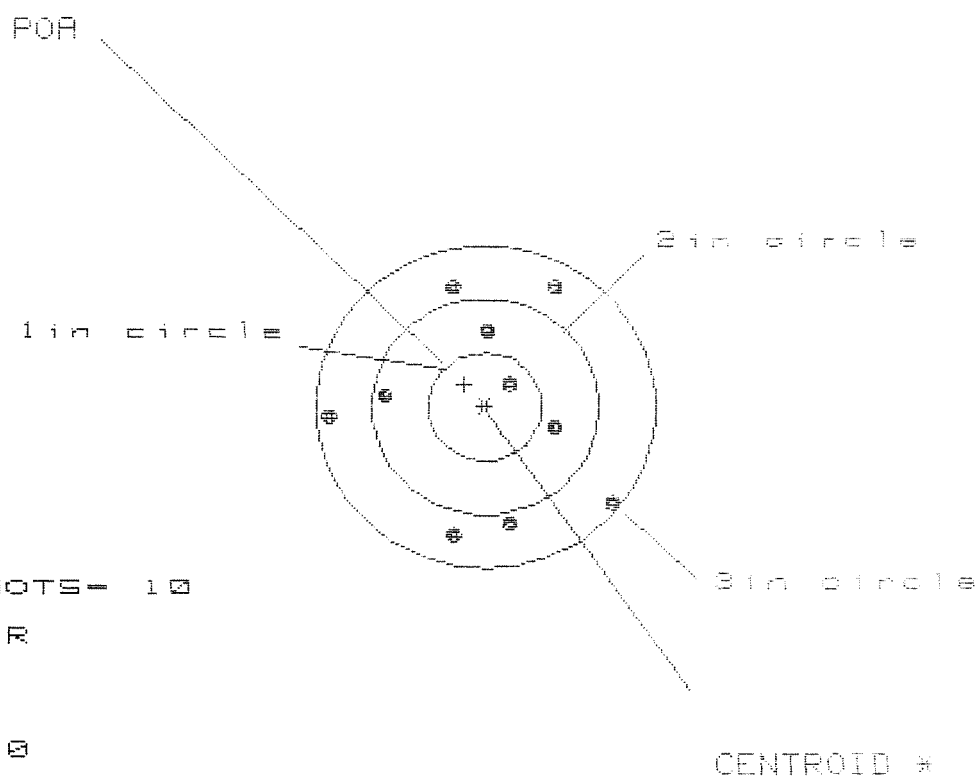
 (----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0082
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0158
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0178811
THE AMR FOR THIS RIFLE IS: .8912

4 Dec 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C654B718

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 4

3 in = 10

HS= 2.480

VS= 2.298

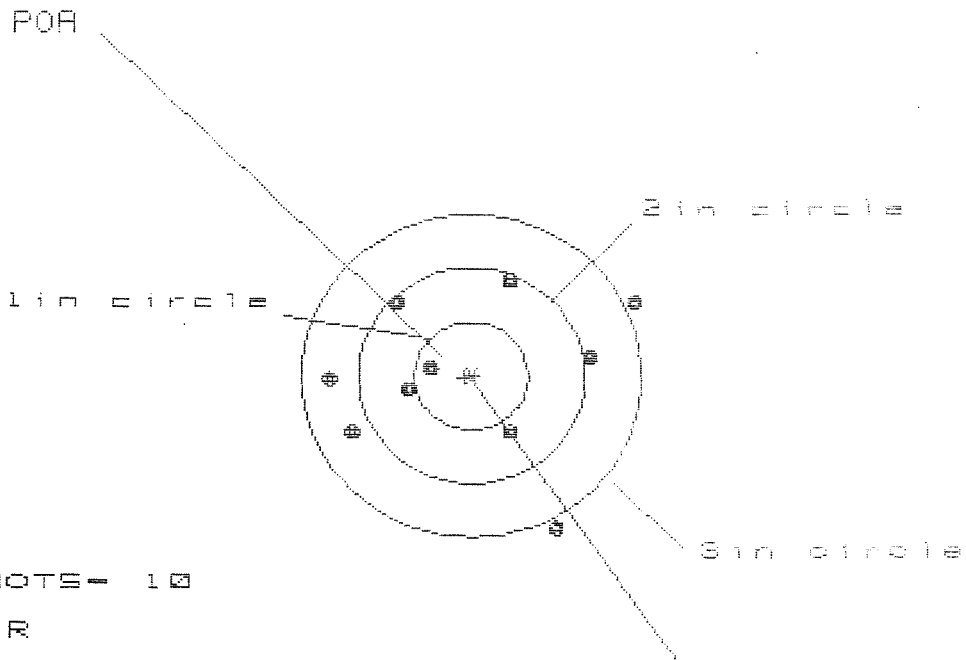
GS= 2.590

PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.102	.743	.586
MINIMUM X	:	-1.378	-1.256	-.991
MAXIMUM Y	:	1.153	1.059	1.034
MINIMUM Y	:	-1.145	-1.239	-1.264
CENTROID X	:	.182	.060	.217
CENTROID Y	:	-.209	-.115	-.091
POA TO CENTROID in.	:	.278	.130	.235
MIN RADIUS	:	.302	.350	.198
MEAN RADIUS	:	1.002	.952	.884
MAX RADIUS	:	1.391	1.271	1.302
HORIZONTAL SPREAD	:	2.480	1.999	1.477
VERTICAL SPREAD	:	2.298	2.298	2.298
EXTREME SPREAD	:	2.590	2.448	2.448
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		10	

4 Dec 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C6348718

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 5

3 in = 8

HS= 2.701

VS= 2.316

GS= 2.800

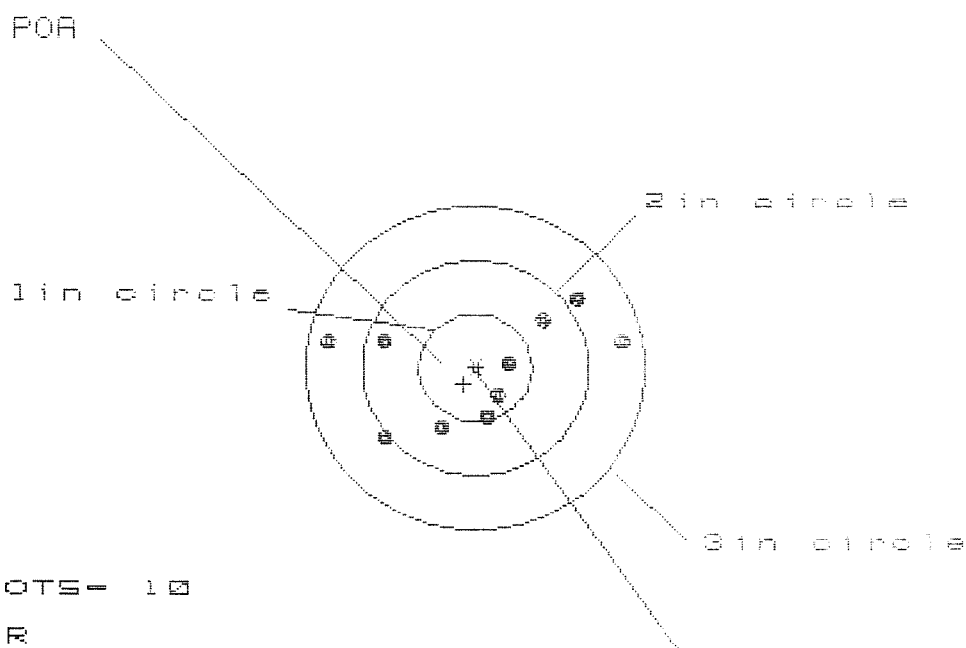
CENTROID #

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.445	1.168	1.276
MINIMUM X	:	-1.256	-1.095	-.987
MAXIMUM Y	:	.928	1.005	.641
MINIMUM Y	:	-1.388	-1.311	-.642
CENTROID X	:	.058	-.103	-.211
CENTROID Y	:	.018	-.059	.105
POA TO CENTROID in.	:	.061	.118	.236
MIN RADIUS	:	.401	.301	.118
MEAN RADIUS	:	1.014	.919	.797
MAX RADIUS	:	1.600	1.572	1.277
HORIZONTAL SPREAD	:	2.701	2.263	2.263
VERTICAL SPREAD	:	2.316	2.316	1.483
EXTREME SPREAD	:	2.800	2.495	2.272
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		8	

4 Dec 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C834B718

CENTERFIRE PATTERNS # 3



OF SHOTS= 10

IN CIR

1 in = 3

2 in = 6

3 in = 10

HS= 2.534

VS= 1.323

GS= 2.534

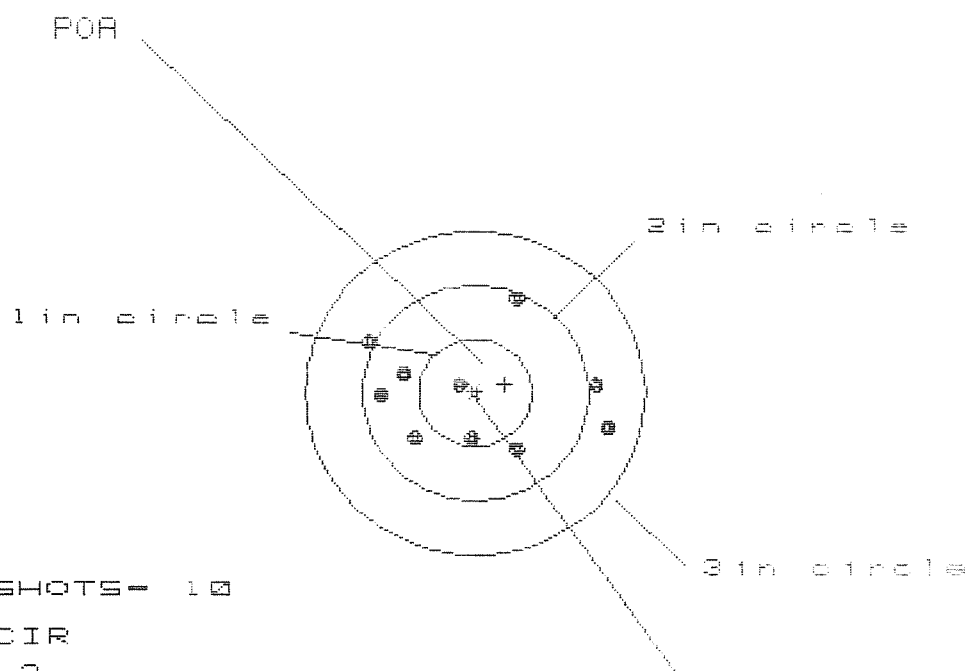
CENTROID *

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.260	1.119	.870
MINIMUM X	:	-1.274	-.971	-.831
MAXIMUM Y	:	.667	.694	.727
MINIMUM Y	:	-.656	-.629	-.596
CENTROID X	:	.104	.245	.105
CENTROID Y	:	.151	.124	.091
POA TO CENTROID in.	:	.183	.275	.139
MIN RADIUS	:	.320	.206	.267
MEAN RADIUS	:	.795	.715	.659
MAX RADIUS	:	1.296	1.157	1.134
HORIZONTAL SPREAD	:	2.534	2.090	1.701
VERTICAL SPREAD	:	1.323	1.323	1.323
EXTREME SPREAD	:	2.534	2.276	2.155
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		10	

4 Dec 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C6348718

CENTERFIRE PATTERNS # 4



OF SHOTS = 10

IN CIR

1 in = 2

2 in = 6

3 in = 10

HS = 2.0095

VS = 1.482

GS = 2.225

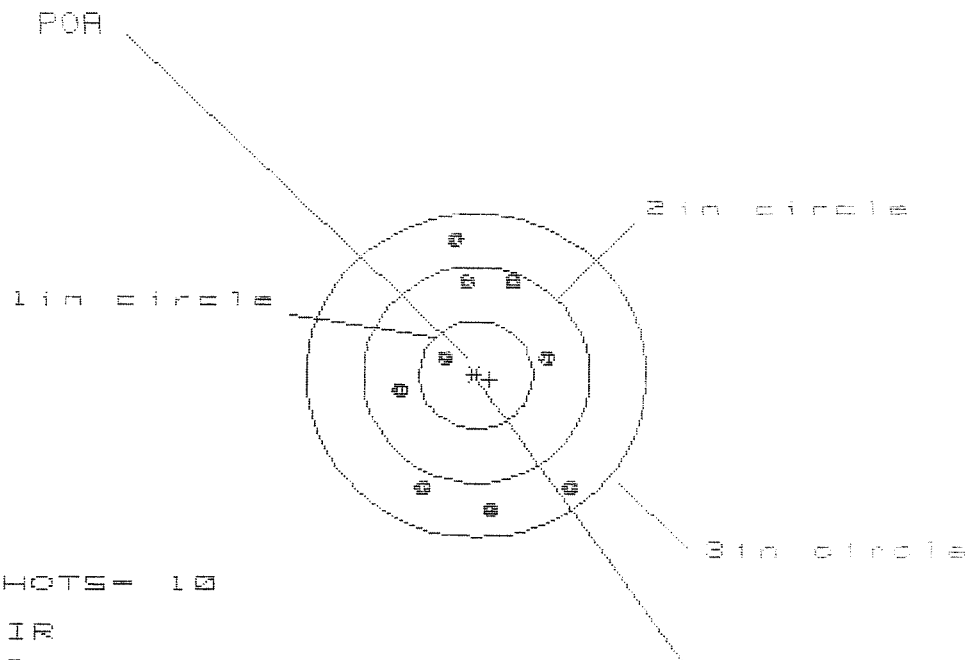
CENTROID *

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.160	1.220	.694
MINIMUM X	:	-.935	-.886	-.654
MAXIMUM Y	:	.916	.883	.895
MINIMUM Y	:	-.566	-.599	-.587
CENTROID X	:	-.264	-.393	-.545
CENTROID Y	:	-.078	-.045	-.057
POA TO CENTROID in.	:	.275	.395	.548
MIN RADIUS	:	.103	.037	.190
MEAN RADIUS	:	.767	.696	.617
MAX RADIUS	:	1.196	1.223	1.133
HORIZONTAL SPREAD	:	2.095	2.026	1.348
VERTICAL SPREAD	:	1.482	1.482	1.482
EXTREME SPREAD	:	2.225	2.053	1.554
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		10	

4 Dec 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08348718

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 6

3 in = 10

HS= 1.534

VS= 2.422

GS= 2.522

CENTROID #

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.829	.727	.714
MINIMUM X	:	-.705	-.613	-.627
MAXIMUM Y	:	1.226	1.106	.913
MINIMUM Y	:	-1.196	-1.316	-1.178
CENTROID X	:	-.121	-.213	-.199
CENTROID Y	:	.039	.159	.021
POA TO CENTROID in.	:	.127	.266	.201
MIN RADIUS	:	.291	.157	.243
MEAN RADIUS	:	.878	.784	.762
MAX RADIUS	:	1.359	1.338	1.200
HORIZONTAL SPREAD	:	1.534	1.340	1.340
VERTICAL SPREAD	:	2.422	2.422	2.091
EXTREME SPREAD	:	2.522	2.447	2.124
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		10	

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

M2400062293

Remington ®		DU PONT REG U.S. PAT. & TM. OFF	VERY IMPORTANT: Instruction Book enclosed to assure safe use of this firearm.
MODEL 700™ H24		SERIAL NO. C6348718	
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat & Tm. Off, Marca Registrada Marque Deposee.		ORDER NO. 5716	

01



5716 C6348718

UPC



0 47700 25716 7

RECEIVING AND ESTIMATING REPORT

COMMENTS

ORDER
R 99-07181

INITIAL CUSTOMER ORDER NO.

RLP

M-24
W/SCOPE

DATE RECEIVED

DATE OPENED

DATE CODE

SERIAL NUMBER

NEW SERIAL NUMBER

MODEL AND GRADE

03/08/99

03/15/99

C6348718

700 7.62

NATP

ACCESSORIES

FROM:

SHIP TO:

TRAFFIC MANAGEMENT OFFICE
BLDG 1702 - BAY 3
MCGUIRE AFB NJ 08641

TRAFFIC MANAGEMENT OFFICE
BLDG 1702 - BAY 3
MCGUIRE AFB NJ 08641

CUST NO:024242 C.O.D.L

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

A

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 - 96003

REPAIRMAN

PROOF

CLEAN

TEST

TARGET

PATTERN

GALLERY TESTER

DATE

DATE

DATE

DATE

DATE

OFFICE COPY

RD6925 REV. 7/97

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

M2400062294

Remington Test Lab, Ilion, N.Y.

Centroidal distance calculations for Rifle # c6348718
22 Apr 1999

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .1944
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.1764
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .262504

THE AMR FOR THIS RIFLE IS: 1.249

CENTROIDAL DISTANCES

Ø TO	1	.100658
1 TO	2	.36305
1 TO	3	.421546
1 TO	4	.699771
1 TO	5	.46696

5
+1 <----POA
3
2
4

PATTERN #: ☐ 1 ☐

POA TO CENTROID: .101

MIN RADIUS : .183

MEAN RADIUS : .792

MAX RADIUS : 1.931

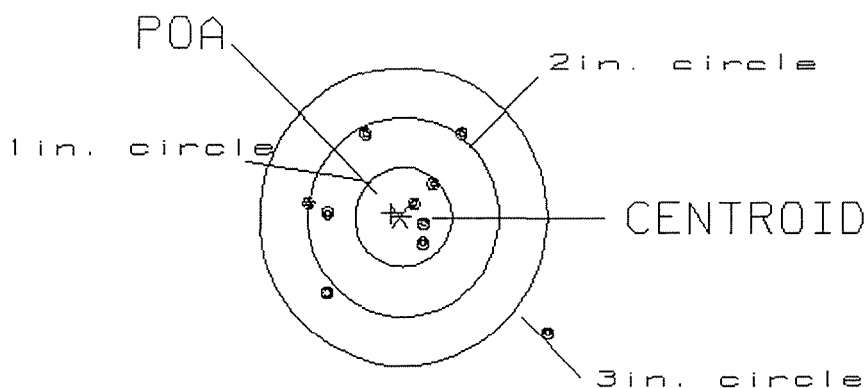
CENTROID X : .094

CENTROID Y : -.036

22 Apr 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6348718

CENTERFIRE PATTERN # 1



OF SHOTS= 10

IN CIRCLE

HS= 2.51

4

VS= 1.99

7

GS= 2.84

9

PATTERN #: ☐ 2 ☐

POA TO CENTROID: .450

MIN RADIUS : .208

MEAN RADIUS : 1.008

MAX RADIUS : 1.782

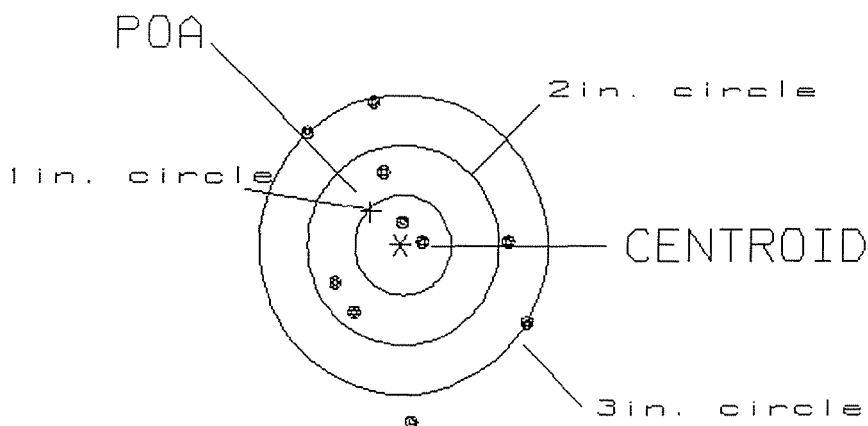
CENTROID X : .307

CENTROID Y : -.330

22 Apr 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6348718

CENTERFIRE PATTERN # 2



OF SHOTS= 10

IN CIRCLE

HS= 2.25

2

VS= 3.16

5

GS= 3.21

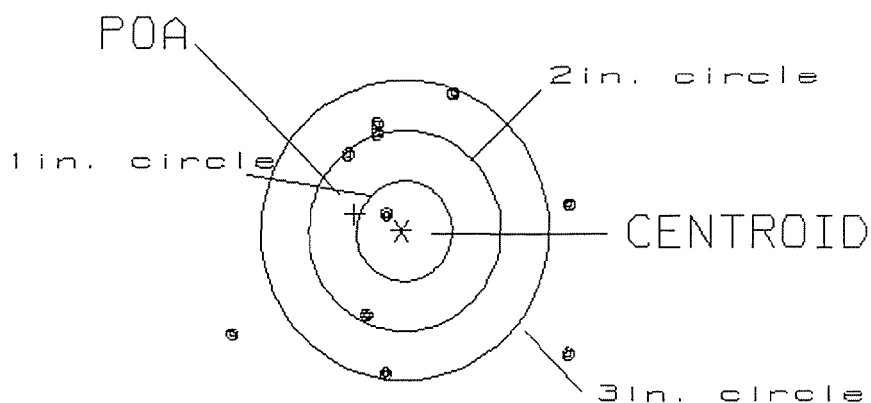
9

PATTERN #: ☐ 3 ☐
 POA TO CENTROID: .522
 MIN RADIUS : .275
 MEAN RADIUS : 1.296
 MAX RADIUS : 2.085
 CENTROID X : .495
 CENTROID Y : -.166

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CENTERFIRE PATTERN # 3



OF SHOTS= 10

IN CIRCLE

HS= 3.51

1

VS= 2.79

4

GS= 3.74

7

REMINGTON CENTERFIRE ACCURACY TEST

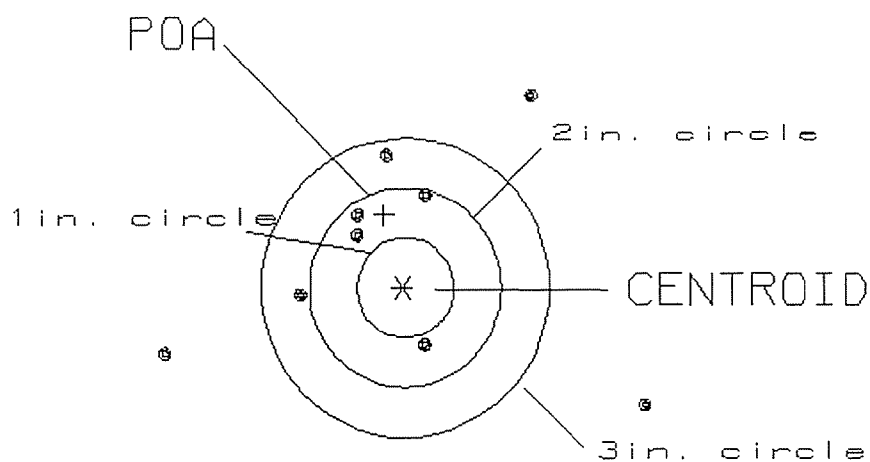
REMINGTON TEST LAB, ILION, N.Y.

PATTERN #: ☐ 4 ☐
 POA TO CENTROID: .755
 MIN RADIUS : .576
 MEAN RADIUS : 1.629
 MAX RADIUS : 3.004
 CENTROID X : .198
 CENTROID Y : -.728

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CENTERFIRE PATTERN # 4



OF SHOTS= 10

IN CIRCLE

HS= 5.06

0

VS= 4.88

4

GS= 5.09

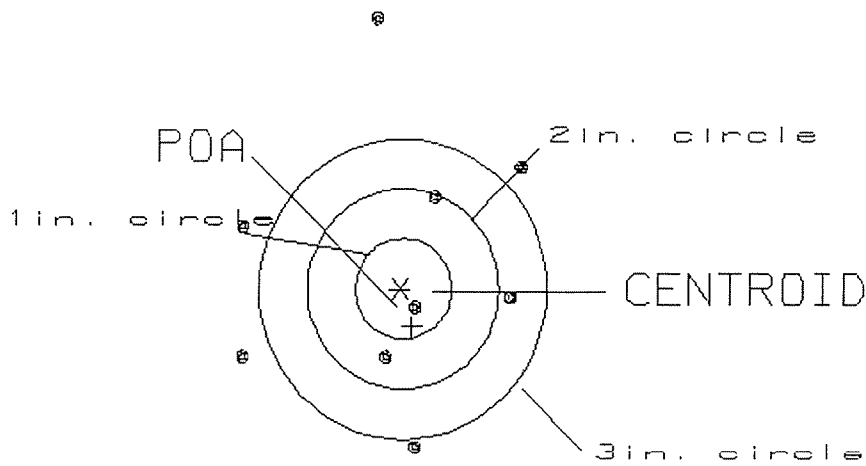
6

PATTERN #: 5
 POA TO CENTROID: .397
 MIN RADIUS : .170
 MEAN RADIUS : 1.519
 MAX RADIUS : 2.753
 CENTROID X : -.122
 CENTROID Y : .378

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CENTERFIRE PATTERN # 5



OF SHOTS= 10

IN CIRCLE

HS= 2.88
 VS= 5.14
 GS= 5.30

1
 2
 4