

G 6360938
Rep/acc
E 6413600

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: **RE00088169** Serial: E6413600 Model: M24 SWS Center Fire Caliber: 7.62 NATO Repairman: Status: Closed 11/19/2004 9:54:00 AM

Verify Repair

Address Information

Customer: Received From: Return To: Received From:

Name: **HHC 2504 PIR** **HHC 2504 PIR**

Address 1: **WABTTO** **WABTTO**

Address 2: **PO Box:** **PO Box:**

City: **FORT BRAGG** **FORT BRAGG**

State: **NC** Zip Code: **28310** Country: **US** State: **NC** Zip Code: **28310** Country: **US**

FFL: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Contact / Condition **Problems** **Estimate** **History / Status** **Shipping / Billing**

Contact Information **Received Condition** **Accessories Received**

Phone:

Fax:

Email:

Comments:

Condition: **Fair**

Notes:

CSR Notes:

Code	Desc	Qty
A007	With Studs	3
A009	Soft Case	1
A010	Hard Case	1
A017	Scope Bases	3

Repair Search **Refresh** **Close**

maglev 11/19/2004 10:46 AM CAPS NUM. INS SCPL

start 3 7 2

G 6360938

Serial Number: **E6413600**

Model: **M24 SWS**



RE00088169

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: G6360938.__0
FILE DATE AND TIME: 12/10/2004 19:37

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.054
The Average Y Centroid of the Five Target Set:	-0.058
The Average Point of Impact of the Five Target Set:	0.079
The Average Mean Radius of the Five Target Set:	0.811
The Distance from POA to Centroid Target #1:	0.272
The Distance from Centroid Target #2 to Centroid Target #1:	0.456
The Distance from Centroid Target #3 to Centroid Target #1:	0.594
The Distance from Centroid Target #4 to Centroid Target #1:	0.219
The Distance from Centroid Target #5 to Centroid Target #1:	0.470

SERIAL NUMBER: G6360938. __0

TARGET NUMBER: 1

FILE DATE: 12/10/2004

FILE TIME: 19:37

POINT#	X	Y
1:	1.026	0.065
2:	0.780	0.626
3:	0.348	0.815
4:	0.038	0.207
5:	-0.221	0.227
6:	-0.313	0.843
7:	-0.510	0.557
8:	-0.936	0.471
9:	0.011	-0.418
10:	0.003	-0.684

X CENTROID: 0.023

Y CENTROID: 0.271

POA TO CENTROID: 0.272

HORZ SPREAD: 1.962

VERT SPREAD: 1.527

GROUP SPREAD: 2.004

MIN RADIUS: 0.066

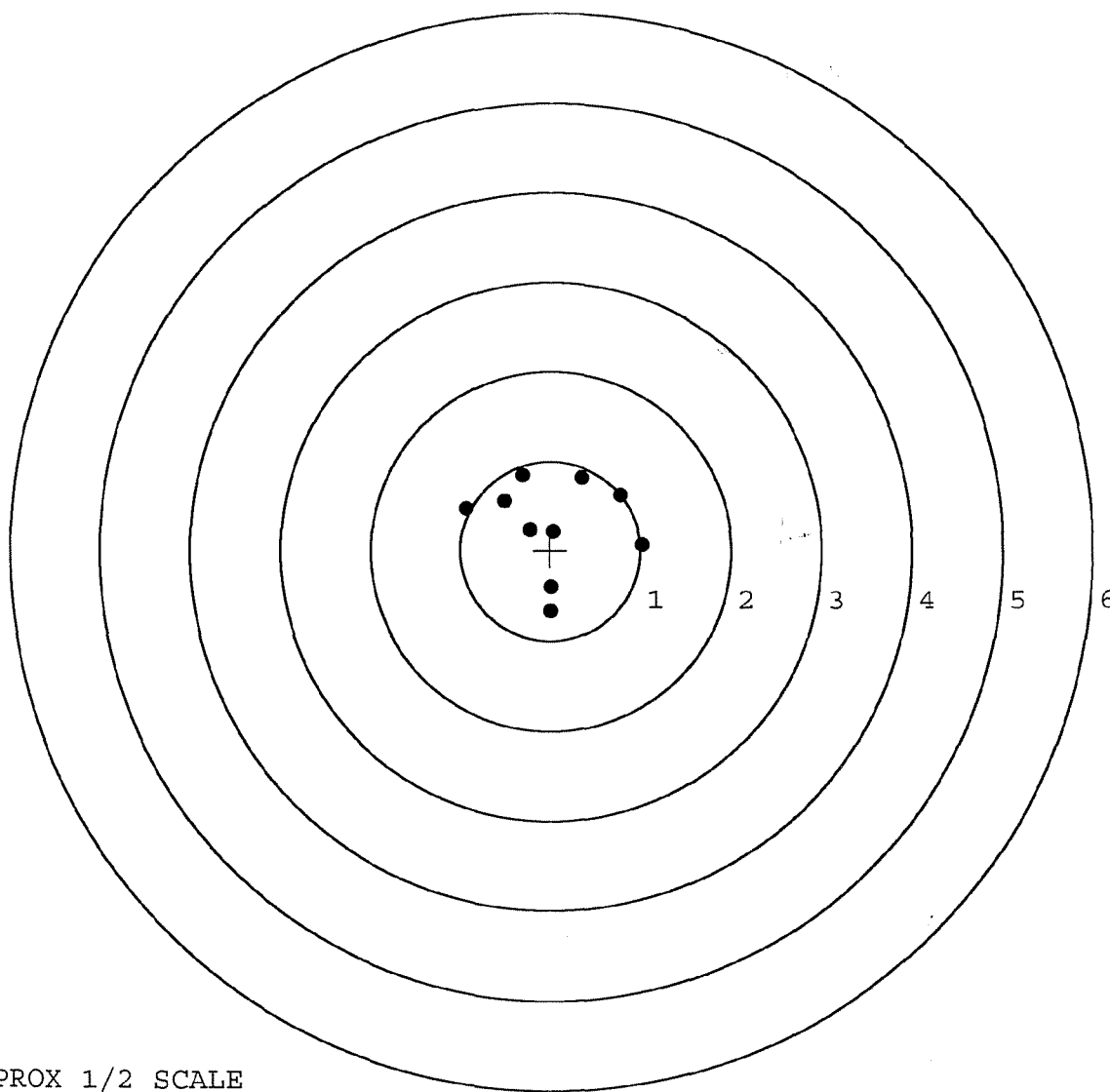
MAX RADIUS: 1.024

MEAN RADIUS: 0.670

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6360938. __0

TARGET NUMBER: 2

FILE DATE: 12/10/2004

FILE TIME: 19:37

POINT#	X	Y
1:	1.124	-1.462
2:	0.014	-1.185
3:	0.637	0.148
4:	0.004	0.845
5:	-0.044	0.523
6:	-0.223	0.208
7:	-0.478	-0.045
8:	-0.033	-0.070
9:	0.165	-0.301
10:	-0.170	-0.449

X CENTROID: 0.100

Y CENTROID: -0.179

POA TO CENTROID: 0.205

HORZ SPREAD: 1.602

VERT SPREAD: 2.307

GROUP SPREAD: 2.564

MIN RADIUS: 0.139

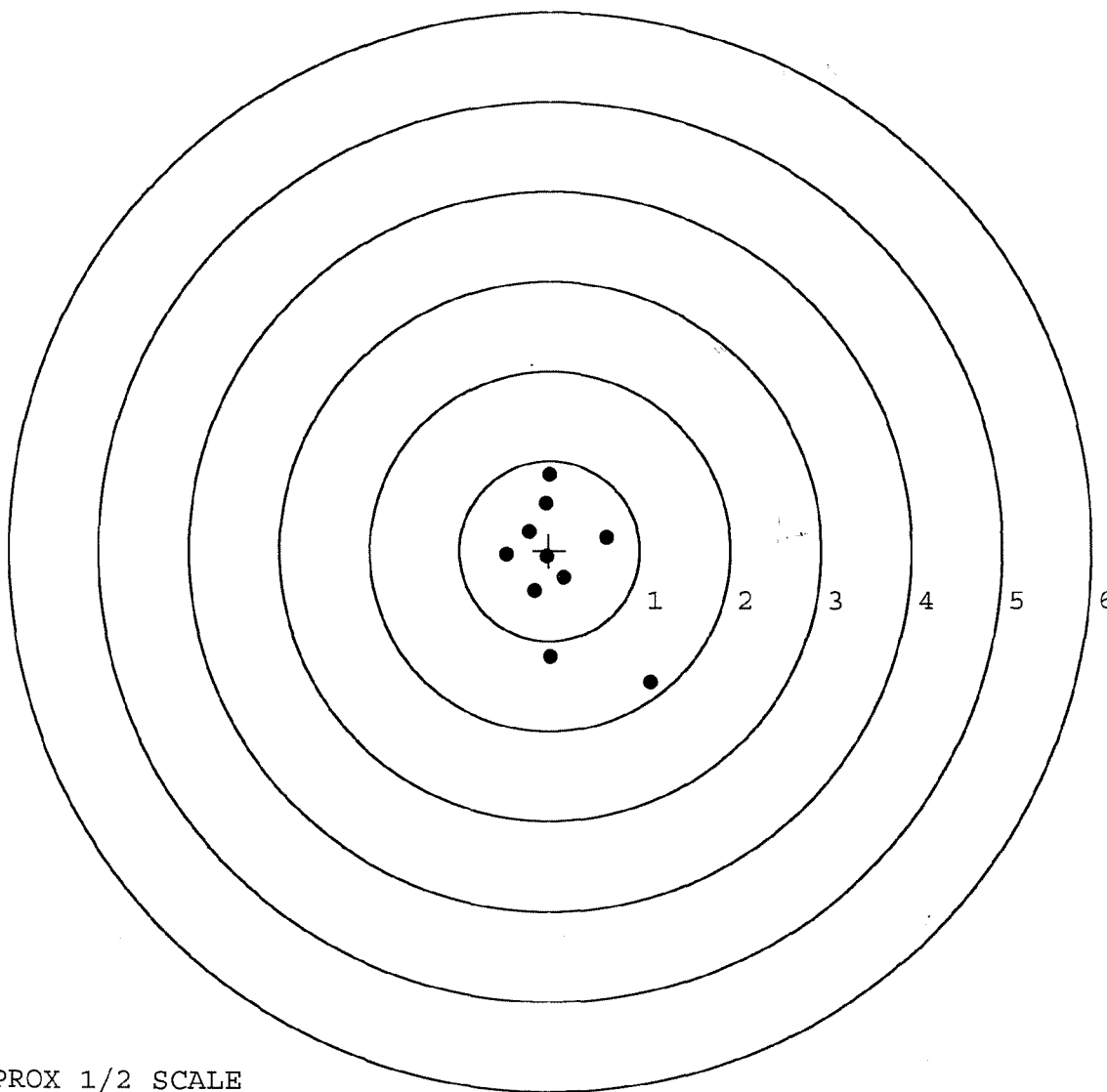
MAX RADIUS: 1.642

MEAN RADIUS: 0.681

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6360938. 0

TARGET NUMBER: 3

FILE DATE: 12/10/2004

FILE TIME: 19:37

POINT#	X	Y
1:	0.391	-2.376
2:	-0.239	-1.493
3:	0.065	-1.081
4:	-1.122	0.334
5:	-1.357	0.876
6:	-0.444	1.491
7:	-0.056	0.286
8:	0.310	0.058
9:	0.085	-0.351
10:	0.302	-0.518

X CENTROID: -0.206

Y CENTROID: -0.277

POA TO CENTROID: 0.346

HORZ SPREAD: 1.748

VERT SPREAD: 3.867

GROUP SPREAD: 3.956

MIN RADIUS: 0.301

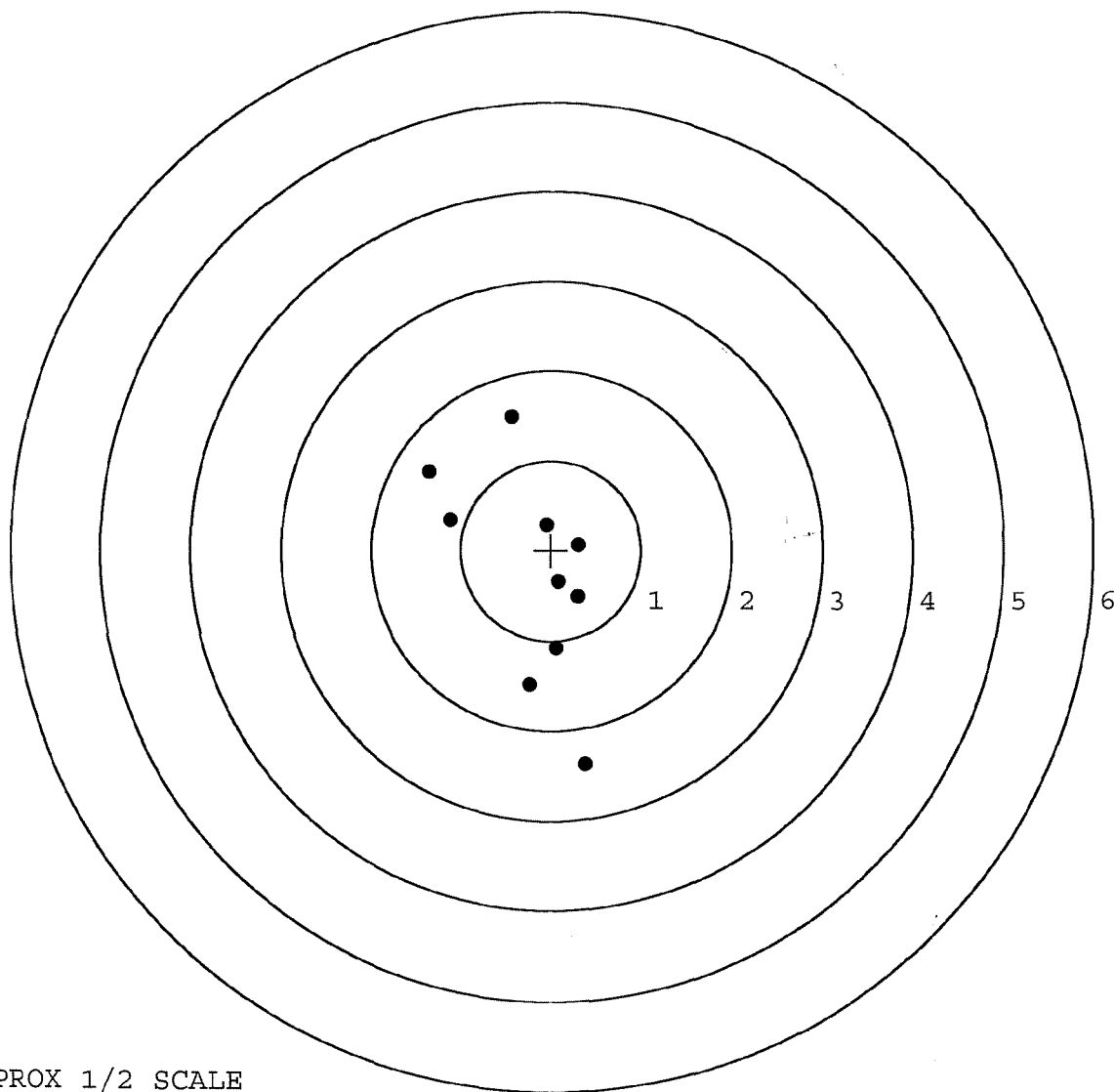
MAX RADIUS: 2.182

MEAN RADIUS: 1.082

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 5

in 3 IN DIAMETER: 7



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6360938. __0

TARGET NUMBER: 4

FILE DATE: 12/10/2004

FILE TIME: 19:37

POINT#	X	Y
1:	0.977	0.718
2:	-0.272	1.134
3:	0.019	0.558
4:	-0.066	0.181
5:	0.279	-0.288
6:	-0.315	-0.563
7:	0.020	-0.851
8:	0.847	-2.122
9:	-0.810	1.066
10:	-0.951	0.744

X CENTROID: -0.027

Y CENTROID: 0.058

POA TO CENTROID: 0.064

HORZ SPREAD: 1.928

VERT SPREAD: 3.256

GROUP SPREAD: 3.593

MIN RADIUS: 0.129

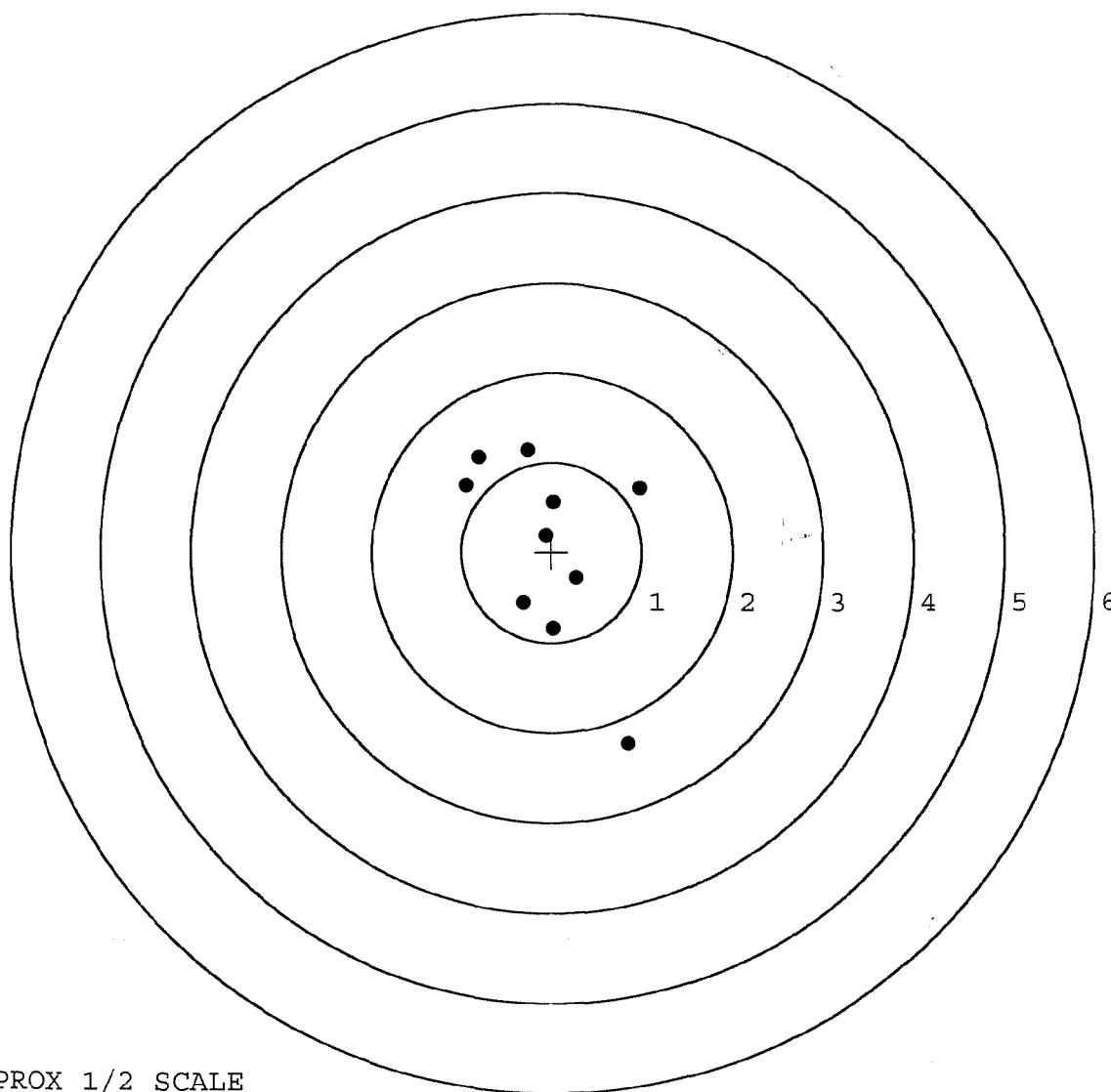
MAX RADIUS: 2.348

MEAN RADIUS: 0.977

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 5

in 3 IN DIAMETER: 9

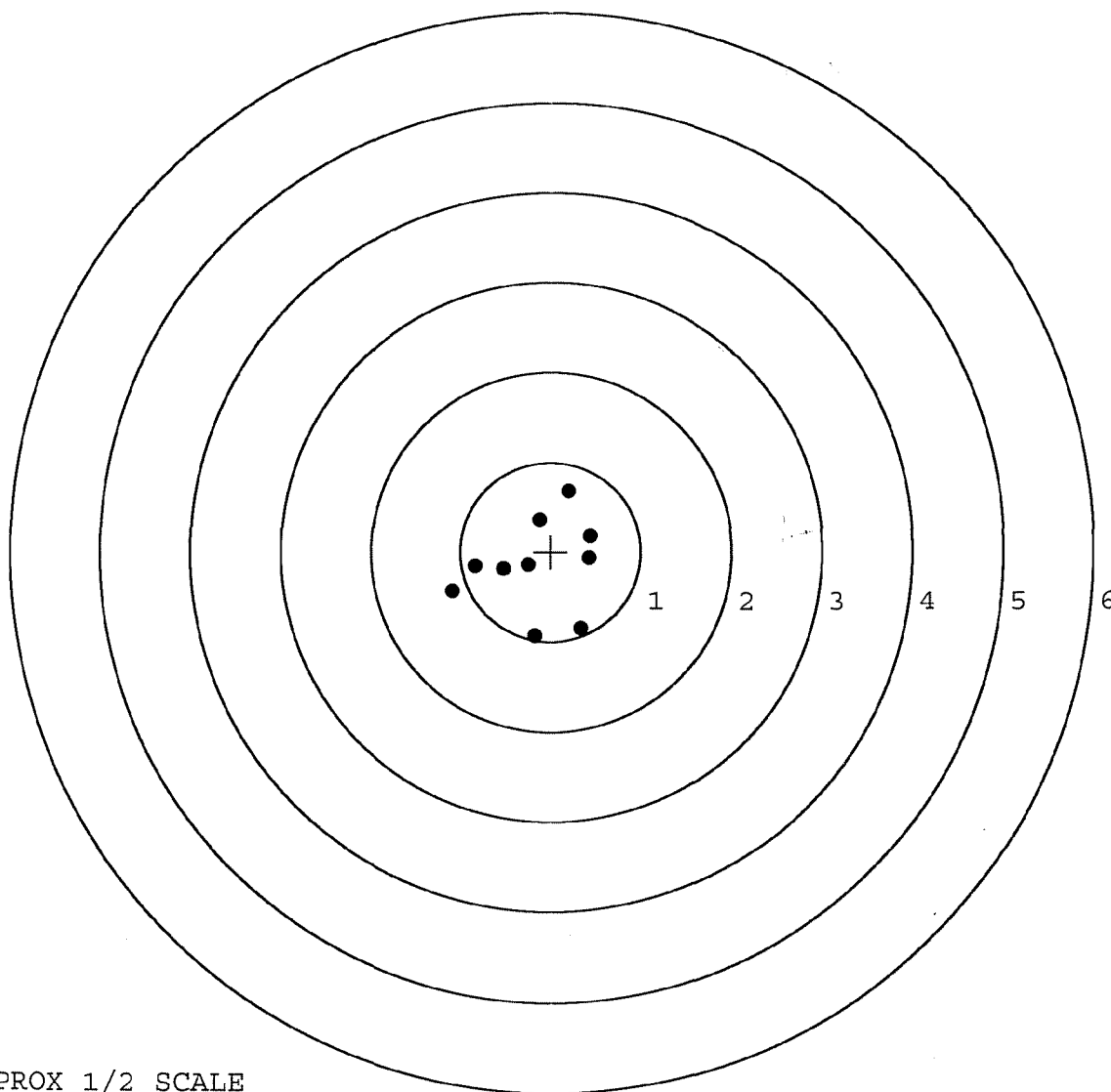


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6360938. __0
TARGET NUMBER: 5
FILE DATE: 12/10/2004
FILE TIME: 19:37

X CENTROID: -0.159
Y CENTROID: -0.163
POA TO CENTROID: 0.228
HORZ SPREAD: 1.533
VERT SPREAD: 1.619
GROUP SPREAD: 1.709
MIN RADIUS: 0.090
MAX RADIUS: 0.974
MEAN RADIUS: 0.646
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.340	-0.866
2:	-0.177	-0.941
3:	-1.092	-0.443
4:	-0.834	-0.160
5:	-0.522	-0.198
6:	-0.249	-0.153
7:	0.430	-0.076
8:	0.441	0.177
9:	0.198	0.678
10:	-0.128	0.355



TARGET APPROX 1/2 SCALE

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

R & E NUMBER	88169		
SERIAL NUMBER	E 6413600 G 6360 938		
LOG-IN DATE	11-19-04		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	11-24-04	AC
560 A	RE-BARREL	12-1-04	RTL
B	DRILL AND TAP	12-3-04	TRW
575	ASSEMBLE	12-2-04	RTL
600	PROOF	12-2-04	RTL
605	CHECK HEADSPACE	12-2-04	RTL
610	DIS-ASSEMBLE GUN	12-3-04	RTL
612	MAGNAFLUX	12-3-04	OPERATOR
615	ROLLMARK CALIBER	12-3-04	SB
618	ROTO-BLAST	12-6-04	LB
620	APPLY COATINGS	12/7/04	HP
625 A	FINAL ASSEMBLY	12-10-04	ROL
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE		
D	SAFETY "OFF" FORCE		
E	FIRING PIN INDENT		
640	TARGET	12-10-04	TRW
655	FINAL INSPECT	12-13-04	AC
660	PACK	12/13/04	BA
		SHIP DATE	
		QAR INSPECTION DATE	

RECEIVING AND ESTIMATING REPORT

COMMENTS

ORDER
R 99-06372

INITIAL
RLP

CUSTOMER ORDER NO.

WOG 2 OF 3
M-24

DATE RECEIVED

DATE OPENED

DATE CODE

SERIAL NUMBER

NEW SERIAL NUMBER

MODEL AND GRADE

02/27/99

03/06/99

OM 7-92

~~64225477~~

EL413600

700 7.62

NATO

ACCESSORIES

W/STUDS

SCOPE BASE

HARD CASE

FROM:

SHIP TO:

DEPT OF THE ARMY
ATTN: SSG MERRIMAN
HHC 2ND 504 P I R
FORT BRAGG

NC 28307

DEPT OF THE ARMY
ATTN: SSG MERRIMAN
HHC 2ND 504 P I R
FORT BRAGG

NC
28307

CUST NO: 206661 C-01-DL

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

BOLT ASSY.

B3

BARREL ASSY.

B4

D1

E3

F3

REC. ASSY.

B5

D2

E4

F4

WOOD

C1

D3

E5

F5

METAL

C2

MAIN FAULT

PTS

COMMENTS

Barrel - 96001
Receiver - 96004
Bolt Assy - 96005

REPAIRMAN

PROOF

CLEAN

TEST

TARGET

PATTERN

GALLERY TESTER

DATE

DATE

DATE

DATE

DATE

WITH GUN

RD6925 REV. 7/97

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

M2400082791

Remington Test Lab, Ilion, N.Y.

Centroidal distance calculations for Rifle # e6413600
22 Apr 1999

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: $-.0216$
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: $.0252$
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: $.0331904$

THE AMR FOR THIS RIFLE IS: 1.209

CENTROIDAL DISTANCES

0 TO 1	.228079
1 TO 2	.231262
1 TO 3	.41794
1 TO 4	.661593
1 TO 5	.741723

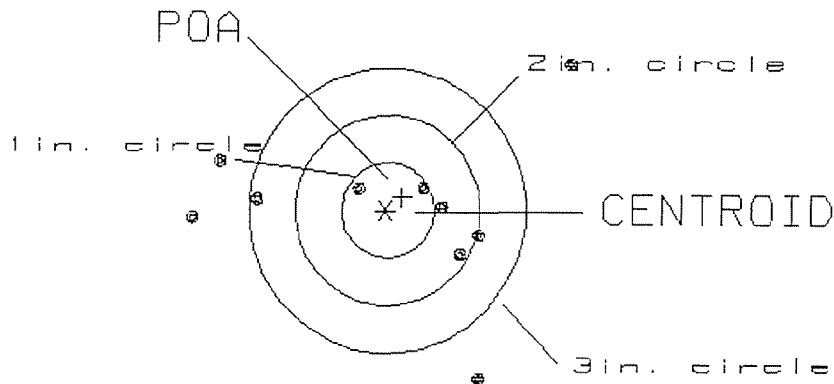
5
4
1 + 2 <----POA
3

PATTERN #: ☐ 1 ☐
 POA TO CENTROID: .228
 MIN RADIUS : .400
 MEAN RADIUS : 1.336
 MAX RADIUS : 2.509
 CENTROID X : -.186
 CENTROID Y : -.132

22 Apr 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/e6413600

CENTERFIRE PATTERN # 1



OF SHOTS= 10

IN CIRCLE

HS= 4.18

2

US= 3.20

4

GS= 4.46

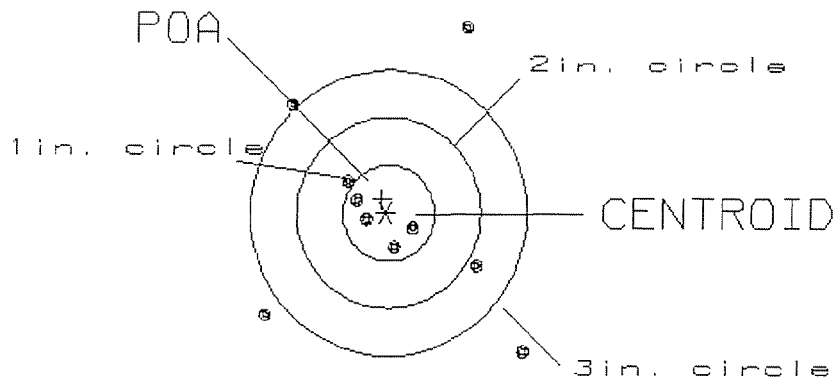
6

PATTERN #: ☐ 2 ☐
 POA TO CENTROID: .150
 MIN RADIUS : .259
 MEAN RADIUS : 1.032
 MAX RADIUS : 2.125
 CENTROID X : .045
 CENTROID Y : -.143

22 Apr 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/e6413600

CENTERFIRE PATTERN # 2



OF SHOTS= 10

IN CIRCLE

HS= 2.77
 VS= 3.41
 GS= 3.75

4
 5
 6

PATTERN #: 53

POA TO CENTROID: .608

MIN RADIUS : .249

MEAN RADIUS : 1.421

MAX RADIUS : 3.066

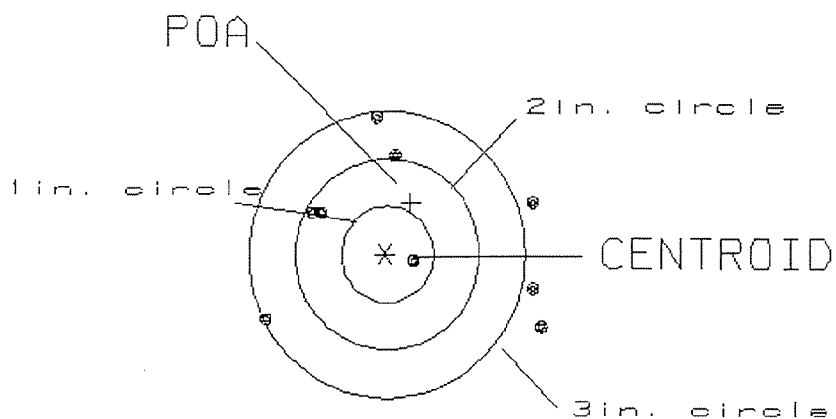
CENTROID X : -.281

CENTROID Y : -.539

22 Apr 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/e6413600

CENTERFIRE PATTERN # 3



OF SHOTS= 10

IN CIRCLE

HS= 3.91

1

VS= 3.61

3

GS= 4.68

6

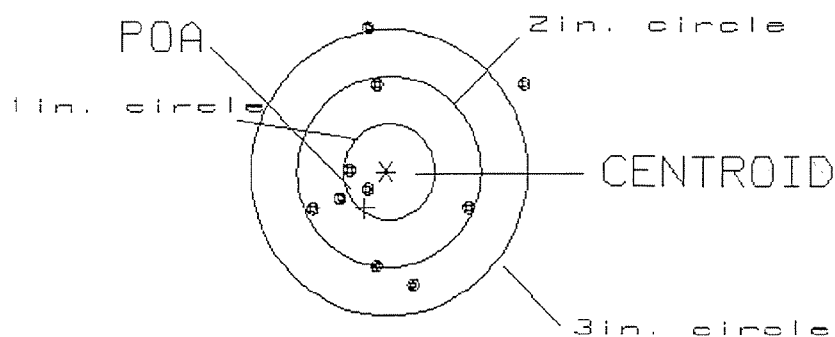
PATTERN #: ☐ 4 ☐

POA TO CENTROID: .445
 MIN RADIUS : .325
 MEAN RADIUS : .970
 MAX RADIUS : 1.673
 CENTROID X : .233
 CENTROID Y : .380

22 Apr 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/e6413600

CENTERFIRE PATTERN # 4



OF SHOTS= 10

IN CIRCLE

HS= 2.27

2

VS= 2.73

6

GS= 2.78

8

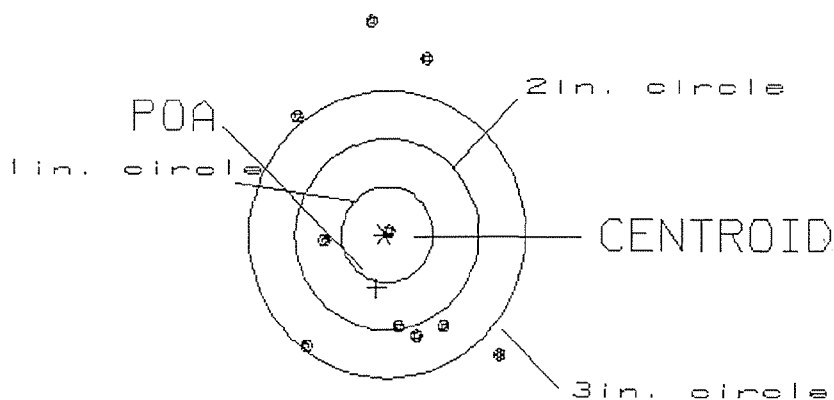
PATTERN #: 5

POA TO CENTROID: .566
 MIN RADIUS : .060
 MEAN RADIUS : 1.285
 MAX RADIUS : 2.236
 CENTROID X : .081
 CENTROID Y : .560

22 Apr 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/e6413600

CENTERFIRE PATTERN # 5



OF SHOTS= 10

IN CIRCLE

HS= 2.20
 VS= 3.44
 GS= 3.72

1
 3
 6

Remington
REG. U.S. PAT. & TM. OFF.

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

MODEL 700TM H24

SERIAL NO.
C6225477

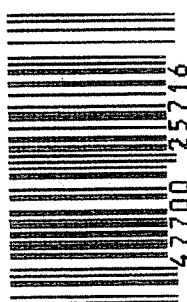
ORDER NO.
5716

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



5716 C6225477

UPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225477

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	12 9	88	RW
600	Proof	12 9	88	RW
607	Check Headspace	12 9	88	RW
610	Dis-assemble Gun	12 9	88	RW
612	Magnaflux Barrel Action		12/22/88	RK.
	Magnaflux Bolt		1-3-89	RK.
615	Rollmark Caliber		12/22/88	MPC.
617	Drill and Tap Sight Holes	1 3	89	FB
618	Polish Barrel	12 2	88	WFT
620	Apply Coatings (Barrel Action)		1-18-89	JA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		1/19/89	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		1/19/89	RW
	C) Inspect Ejector Hole for Chamfer		1/19/89	RW
	D) Oil Firing Pin Ass'y		1/19/89	RW
	E) Adjust Trigger Pull to Min Setting and Stake		1/19/89	RW

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	5	5			25 Jun 89	JS
	G) Safety Off Force	3	3	3			25 Jun 89	JS
	H) Trigger Pull Test & Retainability						19 Jun 89	JS
	I) Firing Pin Indent	.021	.0215	.021			25 Jun 89	JS
	J) Assemble Stock						1/26/89	RW
	K) Assemble Swivel Studs						1/26/89	JS
	L) Attach Front and Rear Sight Assemblies						1/26/89	RW
	M) Iron Sight Alignment						1/26/89	RW
	N) Detach Front & Rear Sights & place in numbered container						1/26/89	RW
	O) Attach Scope to Rifle						1/26/89	RW
	P) Detach & Attach Scope 20 Times						1/29/89	WLB
640	Gallery Target & Test	572	966				1/31/89	DAH
	A) Time						1/31/89	DAH
	B) Malfunctions						1/31/89	DAH
	C) Pierced Primers						1/31/89	DAH
	D) Optical Clarity of Scope						1/31/89	DAH
645	Inspect for Live Ammo						1/31/89	DAH
655	Final Inspection							
	A) Headspace						1/26/89	JS
	B) Trigger Pull	2.38	2.35	2.33	2.42	2.39	1/26/89	JS
	C) Function						1/26/89	JS
660	Pack						27 Mar 89	JS

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO. C6225477

DATE 19 Jan 89

TESTER W.S.

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.33	2.31	2.37	2.38	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.27	2.34	2.33	2.35	
PULL #3	2.27	2.32	2.34	2.33	
PULL #4	2.33	2.17	2.34	2.42	
PULL #5	2.28	2.24	2.34	2.39	
TOTAL	11.48	11.38	11.72	11.87	
AVG.	2.296	2.276	2.344	2.374	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.22	3.15		
PULL #2	3.11	3.17		
PULL #3	3.18	3.17		
PULL #4	3.10	3.17		
PULL #5	3.02	3.12		
TOTAL	15.63	15.78		
AVG.	3.126	3.156		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.07	4.09		4.08
PULL #2	4.08	4.05		4.07
PULL #3	4.10	4.07		4.10
PULL #4	4.13	4.12		4.07
PULL #5	4.10	4.11		4.07
TOTAL	20.48	20.44		20.39
AVG.	4.096	4.088		4.078

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06225477
2 Feb 1989

CENTROIDAL DISTANCES

0 TO	1	.430935
1 TO	2	.185397
1 TO	3	.445225
1 TO	4	.232441
1 TO	5	.524141

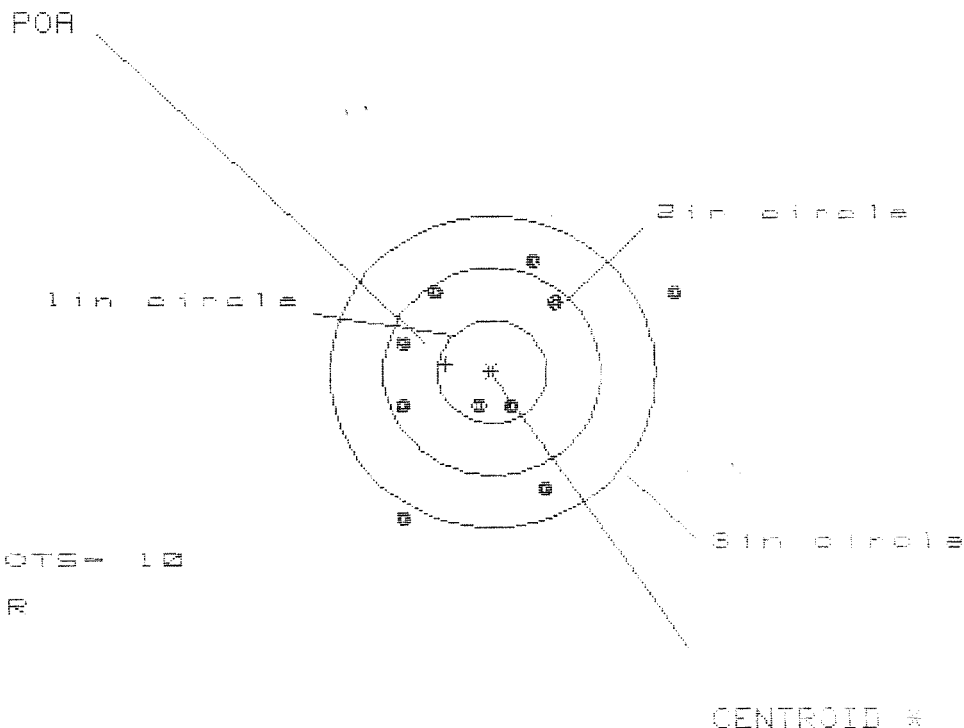
$\frac{5}{34}F$ <----POB

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .219
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.05
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .224635
THE AMR FOR THIS RIFLE IS: .999

31 Jan 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08225477

CENTERFIRE PATTERNS # 1



+ OF SHOTS- 10

IN CIR

1 in = 2

2 in = 6

3 in = 8

HS= 2.508

VS= 2.436

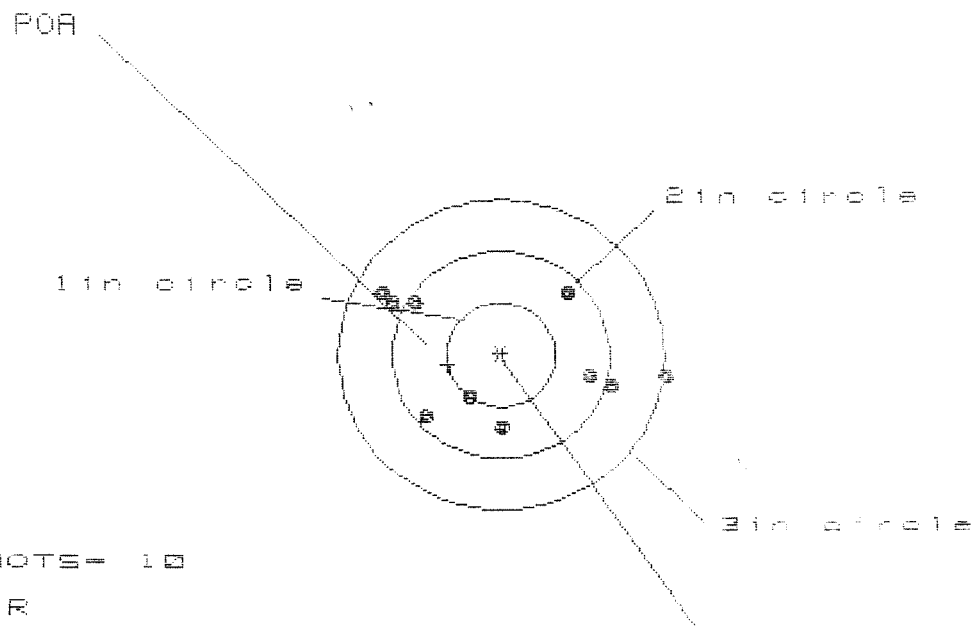
GS= 3.274

PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.654	.748	.667
MINIMUM X	:	-.854	-.670	-.751
MAXIMUM Y	:	1.037	1.118	.953
MINIMUM Y	:	-1.399	-1.318	-1.229
CENTROID X	:	.424	.240	.321
CENTROID Y	:	-.077	-.158	.007
POA TO CENTROID in.	:	.431	.287	.321
MIN RADIUS	:	.300	.202	.358
MEAN RADIUS	:	.998	.884	.814
MAX RADIUS	:	1.808	1.469	1.346
HORIZONTAL SPREAD	:	2.508	1.418	1.418
VERTICAL SPREAD	:	2.436	2.436	2.182
EXTREME SPREAD	:	3.274	2.701	2.185
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		8	

31 Jan 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08223477

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1in = 1

2in = 6

3in = 9

HS= 2.523

VS= 1.305

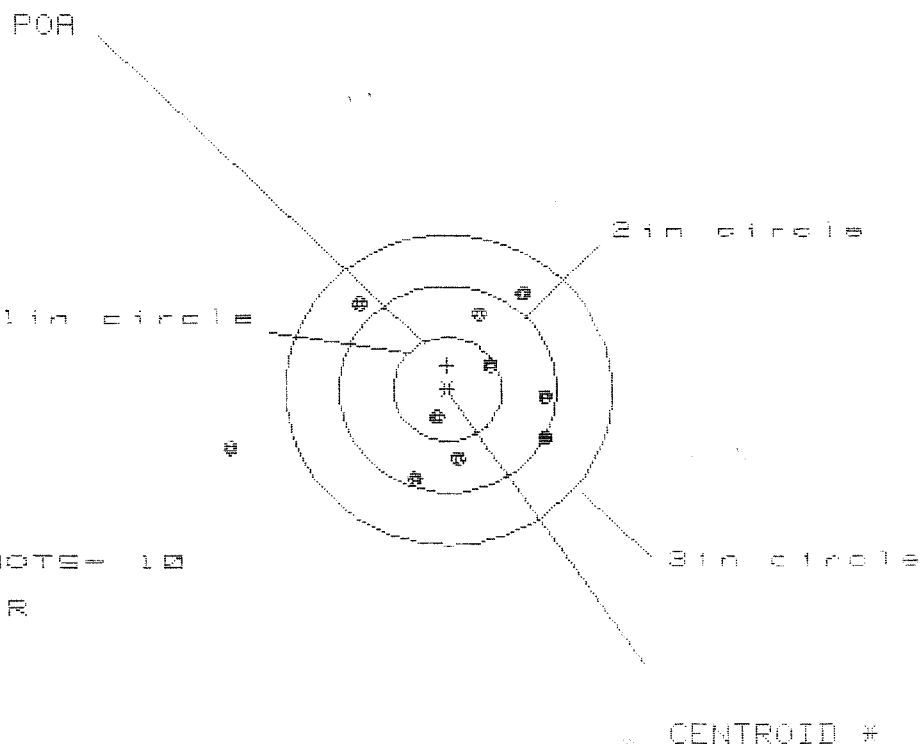
GS= 2.675

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.485	1.151	1.042
MINIMUM X	:	-1.038	-.874	-.942
MAXIMUM Y	:	.647	.620	.672
MINIMUM Y	:	-.658	-.685	-.608
CENTROID X	:	.488	.324	.433
CENTROID Y	:	.097	.124	.047
FOR TO CENTROID in.	:	.498	.347	.435
MIN RADIUS	:	.486	.417	.411
MEAN RADIUS	:	.946	.868	.833
MAX RADIUS	:	1.504	1.186	1.108
HORIZONTAL SPREAD	:	2.523	2.025	1.984
VERTICAL SPREAD	:	1.305	1.305	1.280
EXTREME SPREAD	:	2.675	2.217	2.135
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	

31 Jan 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08225477

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 7

3 in = 9

HS= 2.861

VS= 1.803

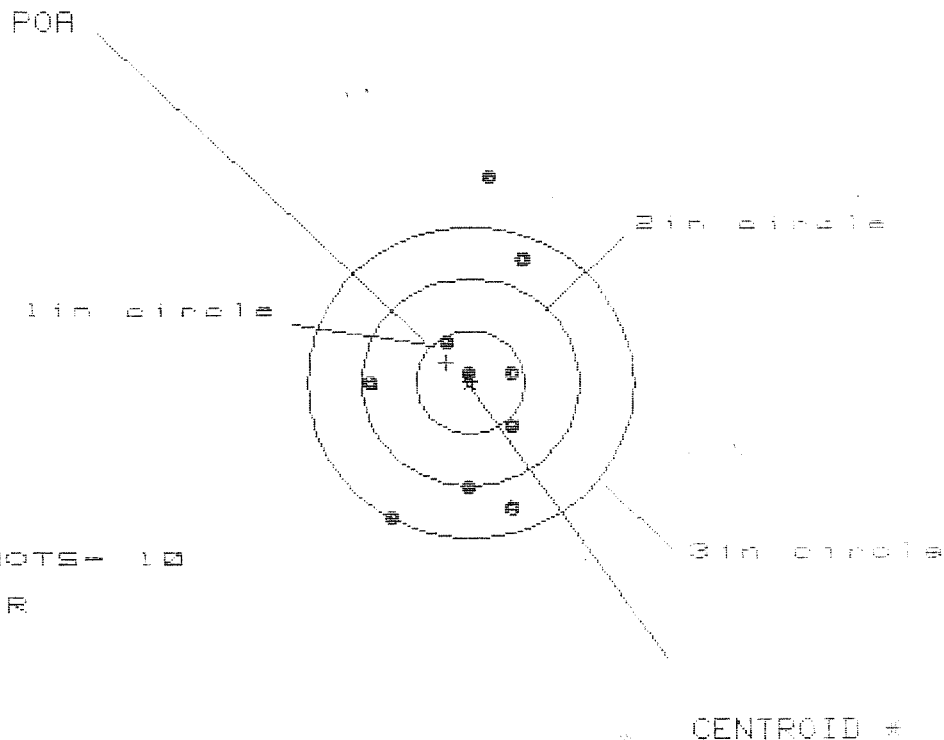
GS= 2.989

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.898	.680	.546
MINIMUM X	:	-1.963	-1.071	-.615
MAXIMUM Y	:	.934	.877	.974
MINIMUM Y	:	-.868	-.926	-.829
CENTROID X	:	.007	.225	.359
CENTROID Y	:	-.233	-.175	-.272
FOR TO CENTROID in.	:	.233	.285	.450
MIN RADIUS	:	.276	.262	.308
MEAN RADIUS	:	.936	.778	.694
MAX RADIUS	:	2.030	1.323	1.032
HORIZONTAL SPREAD	:	2.861	1.751	1.161
VERTICAL SPREAD	:	1.803	1.803	1.803
EXTREME SPREAD	:	2.989	2.156	2.021
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	

31 Jan 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08225477

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1in = 3

2in = 6

3in = 9

HS= 1.368

VS= 3.385

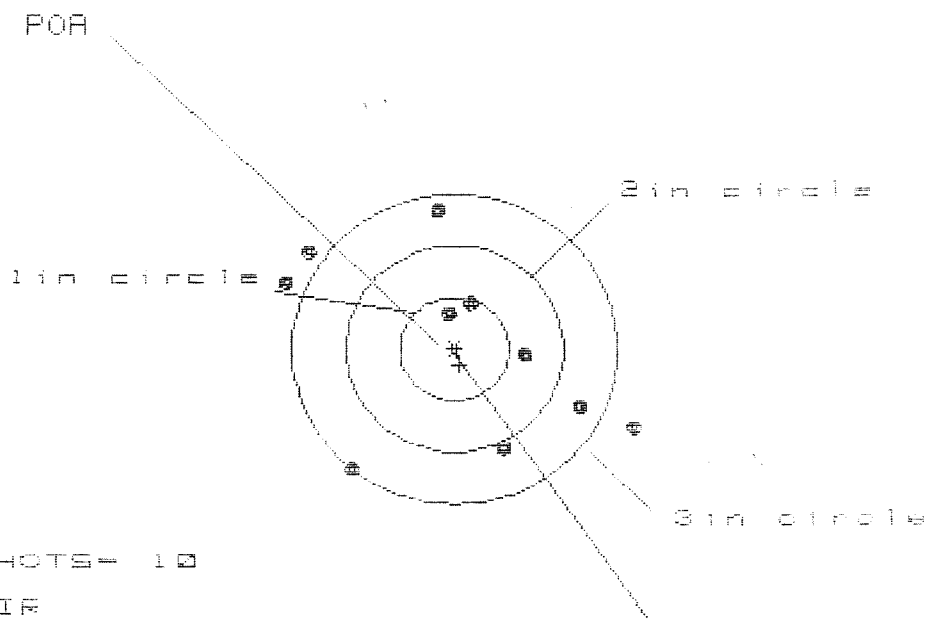
GS= 3.414

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.493	.509	.422
MINIMUM X	:	-.875	-.859	-.946
MAXIMUM Y	:	2.017	1.453	1.320
MINIMUM Y	:	-1.288	-1.064	-1.085
CENTROID X	:	.222	.206	.293
CENTROID Y	:	-.192	-.416	-.283
POA TO CENTROID in.	:	.293	.464	.407
MIN RADIUS	:	.135	.359	.232
MEAN RADIUS	:	.951	.832	.752
MAX RADIUS	:	2.022	1.540	1.386
HORIZONTAL SPREAD	:	1.368	1.368	1.368
VERTICAL SPREAD	:	3.385	2.517	2.405
EXTREME SPREAD	:	3.414	2.791	2.408
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	

31 Jan 1989

FILE:/PATTERNING/CENTERFIRE_PATT/06225477

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1in = 2

2in = 3

3in = 5

HS= 3.169

VS= 2.478

CS= 3.448

CENTROID #

PATTERN #	5
SHOTS (BEST OF)	10
MAXIMUM X	1.651
MINIMUM X	-1.518
MAXIMUM Y	1.307
MINIMUM Y	-1.171
CENTROID X	-.046
CENTROID Y	.155
POA TO CENTROID in.	.162
MIN RADIUS	.305
MEAN RADIUS	1.164
MAX RADIUS	1.811
HORIZONTAL SPREAD	3.169
VERTICAL SPREAD	2.478
EXTREME SPREAD	3.448
NUMBER IN ONE INCH CIRCLE =	2
NUMBER IN TWO INCH CIRCLE =	3
NUMBER IN THREE INCH CIRCLE =	5

RC54

M-24

3/89

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225477

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock			
600	Proof			
607	Check Headspace			
610	Dis-assemble Gun			
612	Magnaflux Barrel Action			
	Magnaflux Bolt			
615	Rollmark Caliber			
617	Drill and Tap Sight Holes			
618	Polish Barrel RB		4/5/90	WB
620	Apply Coatings (Barrel Action)			
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly			
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head			
	C) Inspect Ejector Hole for Chamfer			
	D) Oil Firing Pin Ass'y			
	E) Adjust Trigger Pull to Min Setting and Stake			

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4 1/2	4 1/2	4 1/2			3/1/90	WB
	G) Safety Off Force	3	3	3			3/1/90	WB
	H) Trigger Pull Test & Retainability							
	I) Firing Pin Indent	.0205	.0205	.020			3/1/90	WB
	J) Assemble Stock							
	K) Assemble Swivel Studs						3/1/90	WB
	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						2/23/90	DH
	A) Time						2/23/90	DH
	B) Malfunctions						2/23/90	DH
	C) Pierced Primers						2/23/90	DH
	D) Optical Clarity of Scope						2/23/90	DH
645	Inspect for Live Ammo						2/23/90	WB
655	Final Inspection						3/1/90	WB
	A) Headspace							
	B) Trigger Pull	2.70	2.57	2.57	2.55	2.64	2/26/90	WB
	C) Function						3/1/90	WB
660	Pack							

RECEIVING AND ESTIMATING REPORT

INITIAL		CUSTOMER ORDER NO.		COMMENTS W/10X LEUPOLD SCOPE			
LIN							
DATE RECEIVED	DATE OPENED	DATE CODE	SERIAL NUMBER	MODEL AND GRADE		ORDER	
01/18/90	01/25/90	BJ 3/89	C6225477	9999	7.62 NATO	R 90-02948	
ACCESSORIES	HARD CASE	SLING STRAP	W/STUDS	W/SWIVELS			

FROM:	SHIP TO:
CDR D/782 MAINT BN	CDR D/782 MAINT BN
ATTN CW2 BURKHARDT	ATTN CW2 BURKHARDT
782 MAIN BN	782 MAIN BN
FT BRAGG NC 28307-5100	FT BRAGG NC 28307-5100

ACCOUNT NUMBER	ACCOUNT NUMBER N/C	WRITE ☐	PROM. DATE	ESTIMATED	VIA UPS

REPAIR CHARGE	TAX	INSURANCE	UPS	PARCEL POST	TOTAL
GUN CONDITION: ☐ NEW ☒ SLIGHTLY WORN ☒ VERY WORN ☐ MISUSED ☐ MARRED					
CUSTOMER'S REQUEST					

CRACKED STOCK

MAIN FAULT

PARTS MISSING									
1-96049-SUN SHADE									
1-96044-DUST COVER REAR SCOPE									
1-96105-FRONT SIGHT INSERT KIT									
1-96060-1/2" COMBO WRENCH									
REPAIRMAN	PROOF	CLEAN	TEST	TARGET	PATTERN	GALLERY TESTER	DATE	DATE	DATE
RW	L	L	L	L		DH	2/22/90	2/22/90	2/22/90

RD6925 REV. 6/88

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6225477
23 Feb 1990

CENTROIDAL DISTANCES

0 TO	1	.127346
1 TO	2	.182214
1 TO	3	.350291
1 TO	4	.246611
1 TO	5	.484732

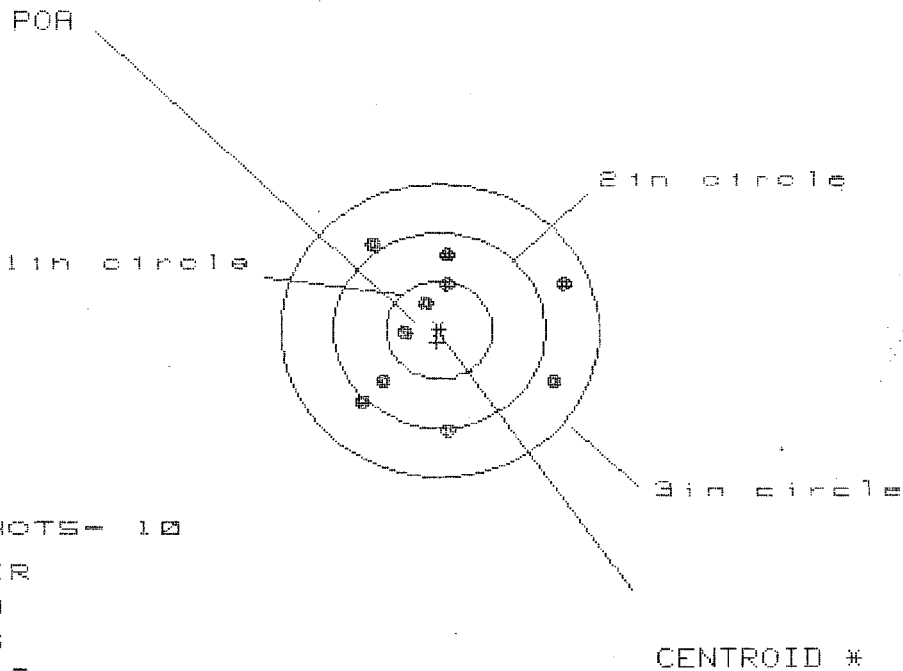
$\frac{23}{5}$ 4 (----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0414
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .038
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0561957
THE AMR FOR THIS RIFLE IS: .7976

23 Feb 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06225477

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1in = 3

2in = 5

3in = 10

HS= 1.904

VS= 1.834

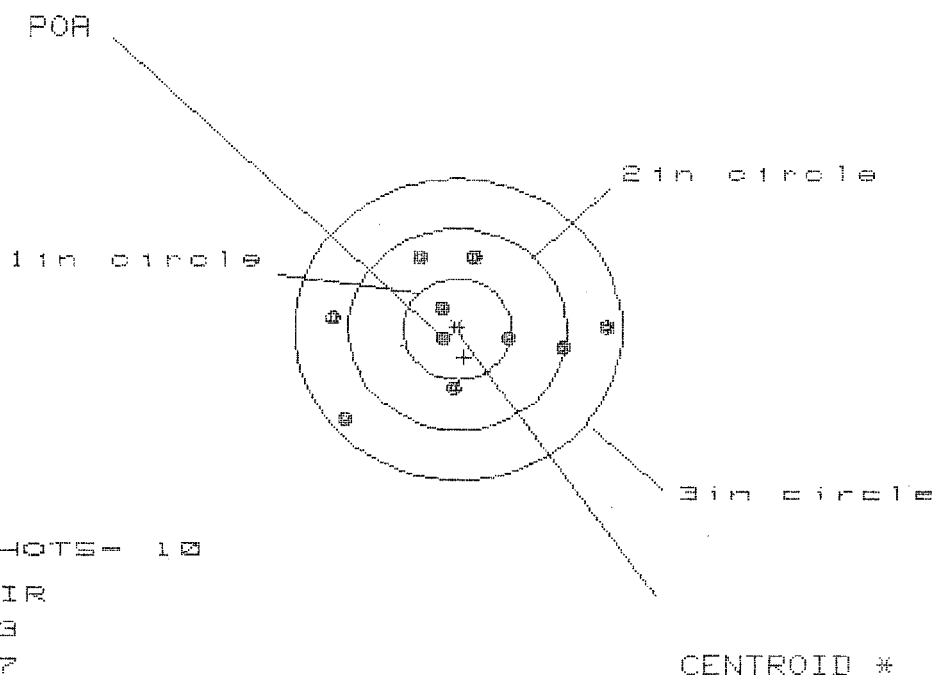
GS= 2.233

PATTERN #	:	1	2	3
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.132	1.153	.387
MINIMUM X	:	-.772	-.646	-.502
MAXIMUM Y	:	.826	.878	.822
MINIMUM Y	:	-1.008	-.956	-1.012
CENTROID X	:	.029	-.097	-.241
CENTROID Y	:	.124	.072	.128
POA TO CENTROID in.	:	.128	.120	.273
MIN RADIUS	:	.257	.170	.028
MEAN RADIUS	:	.806	.740	.647
MAX RADIUS	:	1.228	1.238	1.070
HORIZONTAL SPREAD	:	1.904	1.799	.889
VERTICAL SPREAD	:	1.834	1.834	1.834
EXTREME SPREAD	:	2.233	2.158	1.981
NUMBER IN ONE INCH CIRCLE	=	3		
NUMBER IN TWO INCH CIRCLE	=	5		
NUMBER IN THREE INCH CIRCLE	=	10		

23 Feb 1990

FILE:/PATTERNING/CENTERFIRE_PATT/08225477

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1in = 3

2in = 7

3in = 10

HS= 2.540

VS= 1.592

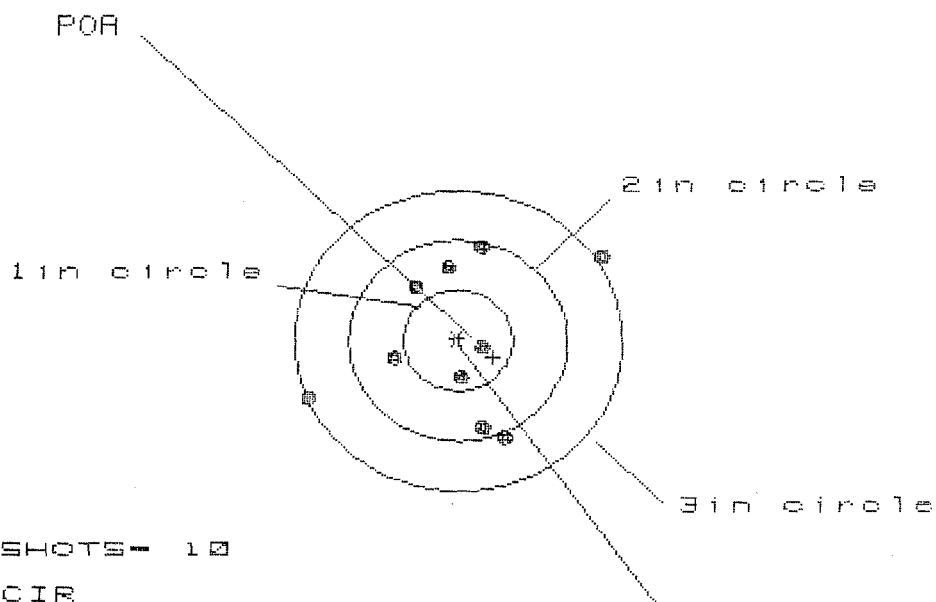
GS= 2.593

PATTERN #	10	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.360	1.241	1.011
MINIMUM X	-1.180	-1.299	-1.144
MAXIMUM Y	.709	.611	.601
MINIMUM Y	-.983	-.633	-.543
CENTROID X	-.060	.059	-.096
CENTROID Y	.283	.381	.391
POA TO CENTROID in.	.289	.385	.402
MIN RADIUS	.209	.289	.169
MEAN RADIUS	.793	.723	.639
MAX RADIUS	1.388	1.300	1.145
HORIZONTAL SPREAD	2.540	2.540	2.155
VERTICAL SPREAD	1.592	1.244	1.244
EXTREME SPREAD	2.593	2.543	2.184
NUMBER IN ONE INCH CIRCLE =	3		
NUMBER IN TWO INCH CIRCLE =	7		
NUMBER IN THREE INCH CIRCLE =	10		

23 Feb 1998

FILE://PATTERNING/CENTERFIRE_PATT/C6225477

CENTERFIRE PATTERNS # 3



OF SHOTS - 10

IN CIR

1in - 2

2in - 7

3in - 10

HS - 2.614

VS - 1.954

GS - 2.929

CENTROID #

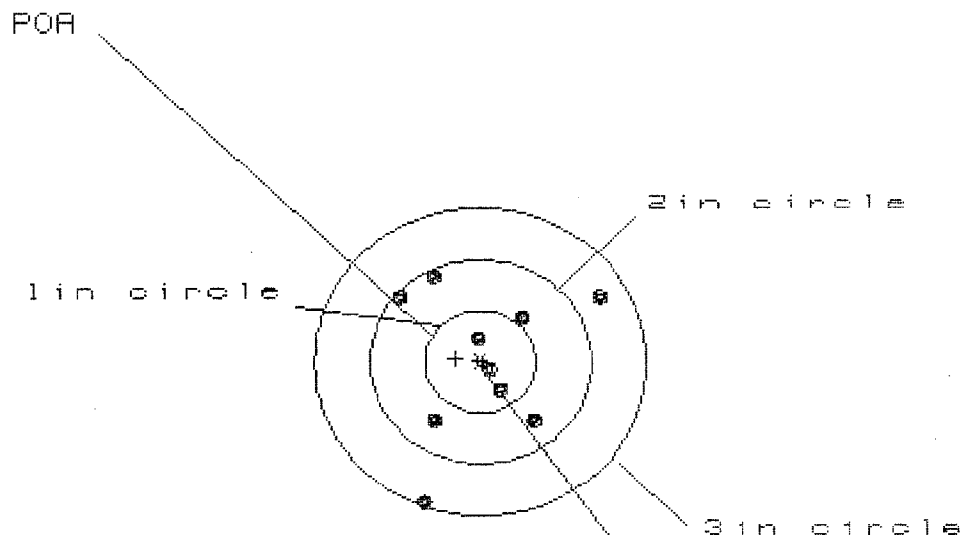
PATTERN # : 3

SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.270	.578	.427
MINIMUM X	:	-1.544	-1.262	-1.500
MAXIMUM Y	:	.943	1.031	.975
MINIMUM Y	:	-1.011	-.923	-.979
CENTROID X	:	-.319	-.461	-.310
CENTROID Y	:	.164	.076	.132
POA TO CENTROID in.	:	.359	.467	.337
MIN RADIUS	:	.260	.344	.248
MEAN RADIUS	:	.862	.785	.708
MAX RADIUS	:	1.495	1.283	1.068
HORIZONTAL SPREAD	:	2.614	1.780	1.020
VERTICAL SPREAD	:	1.954	1.954	1.954
EXTREME SPREAD	:	2.929	2.183	1.962
NUMBER IN ONE INCH CIRCLE	=	2		
NUMBER IN TWO INCH CIRCLE	=	7		
NUMBER IN THREE INCH CIRCLE	=	10		

23 Feb 1990

FILE:/PATTERNING/CENTERFIRE_PATT/C6225477

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1 in - 3

2 in - 8

3 in = 10

HS= 1.791

VS= 2.211

GS= 2.553

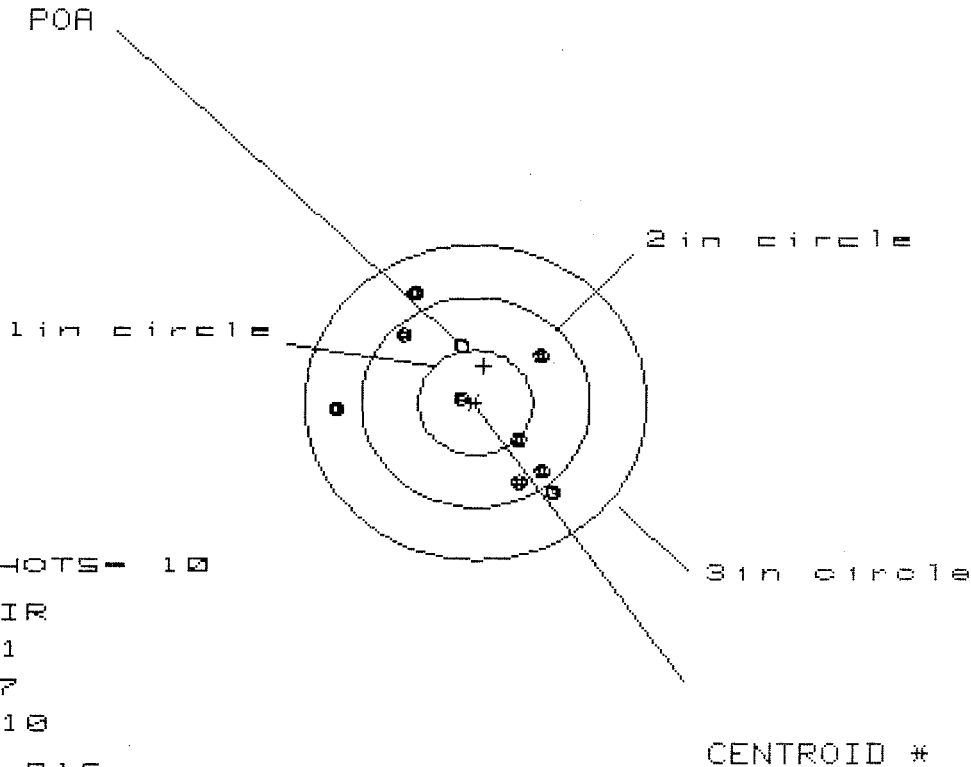
CENTROID *

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.040	.981	.570
MINIMUM X	:	-.751	-.810	-.687
MAXIMUM Y	:	.868	.719	.784
MINIMUM Y	:	-1.343	-.755	-.690
CENTROID X	:	.220	.279	.156
CENTROID Y	:	-.032	.117	.052
POA TO CENTROID in.	:	.222	.302	.164
MIN RADIUS	:	.066	.066	.135
MEAN RADIUS	:	.722	.634	.576
MAX RADIUS	:	1.444	1.111	.895
HORIZONTAL SPREAD	:	1.791	1.791	1.257
VERTICAL SPREAD	:	2.211	1.474	1.474
EXTREME SPREAD	:	2.553	1.909	1.757
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		10	

23 Feb 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6225477

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1 in - 1

2 in - 7

3 in = 10

HS- 1.916

VS= 1.897

GS= 2.265

CENTROID *

PATTERN #	10	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.677	.540	.452
MINIMUM X	-1.239	-.714	-.802
MAXIMUM Y	1.053	1.044	.760
MINIMUM Y	-.844	-.853	-.723
CENTROID X	-.077	.060	.148
CENTROID Y	-.349	-.340	-.471
POA TO CENTROID in.	.357	.345	.493
MIN RADIUS	.120	.258	.301
MEAN RADIUS	.805	.751	.669
MAX RADIUS	1.241	1.256	1.104
HORIZONTAL SPREAD	1.916	1.254	1.254
VERTICAL SPREAD	1.897	1.897	1.482
EXTREME SPREAD	2.265	2.265	1.941
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	7		
NUMBER IN THREE INCH CIRCLE =	10		

M2400082817

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225477

OP. #	OP. NAME	READINGS	DATE	INITIAL
575 & 580	Assemble Action and Stock		8/3/92	RW
600	Proof		8/3/92	RW
607	Check Headspace		8/3/92	RW
610	Dis-assemble Gun		8/3/92	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			
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head			
	C) Inspect Ejector Hole for Chamfer			
	D) Oil Firing Pin Ass'y			
	E) Adjust Trigger Pull to Min Setting and Stake			

op. #	OP. NAME	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						8-11-92	DH
	A) Time						8-11-92	DH
	B) Malfunctions						8-11-92	DH
	C) Pierced Primers						8-11-92	DH
	D) Optical Clarity of Scope						8-11-92	DH
645	Inspect for Live Ammo						8-11-92	DH
655	Final Inspection							
	A) Headspace						8/11/92	RW
	B) Trigger Pull	2.26	2.23	2.23	2.22	2.23	8/11/92	RW
	C) Function						8/11/92	RW
660	Pack							

MAINTENANCE REQUEST				PAGE NO.	NO. OF PAGES	REQUIREMENTS CONTROL SYMBOL CSGLD - 1047(R1)			
For use of this form, see DA PAM 738-750; the proponent agency is DCSLOG									
SECTION I - EQUIPMENT DATA									
CONTROL NUMBER		WORK ORDER NO.		WESDC		ORG. PD		PD AUTHENTICATION	
☐ Work Request ☐ MWO ☒ Warranty Claim		1A. ORGANIZATION <i>DCo 782^d M + Bn</i>		B. LOCATION <i>FE Bragg N.C. 28307-5100</i>			C. UNIT IDENT CODE <i>WABY DO</i>		
2. SERIAL NO. <i>06225477</i>		3. NOUN NOMENCLATURE <i>Sniper Rifle 7.62mm</i>		4. LINE NO. <i>11</i>		5. MODEL <i>M24</i>		6. NATIONAL STOCK NUMBER <i>1005-01-240-2136</i>	
7A. MAINTENANCE ACTIVITY <i>Remington Arms</i>		B. LEVEL		8. UTILIZATION CODE		9A. MCSR ITEM		9B. ERC	
								10. HOURS	
								11. MILES	
								12. ROUNDS	
								13. STARTS	
14. FAILURE DETECTED DURING (Select one - use ☒ or X)					15. FIRST INDICATION OF TROUBLE (Select one - use ☒ or X)				
☐ A Sch. Main. ☐ C Test ☐ E Storage ☐ G Flight ☐ B Handling ☐ D Normal Op ☐ F Inspection ☐ H Other					☐ 068 Inoperative ☐ 258 Overheating ☐ 790 Out of Adjustment ☐ 008 Noisy ☐ 387 Low Performance ☐ Other				
16A. DESCRIBE DEFICIENCIES OR SYMPTOMS ON THE BASIS OF COMPLETE CHECKOUT AND DIAGNOSTIC PROCEDURE IN EQUIPMENT TM (Do not prescribe repairs). <i>Chamber worn</i>									
B. REMARKS									
SECTION II - WORK ACCOMPLISHED									
17A. REPAIR ORGANIZATION/ACTIVITY				C. UNIT IDENT. CODE		18. TYPE ORGANIZATION/ACTIVITY ACCOMPLISHING WORK (Select one - use ☒ or X)		19. AMS ACCT. CODE	
B. LOCATION						☐ 1 TOE ☐ 2 TD ☐ 3 Contractor			
20A. ACT. CODE	B. FAILURE CODE	C. COMPONENT/PART NOUN, SVC, OR MWO NO.			D. MANHOURS (Hrs. & tenths)	E. NATIONAL STOCK NUMBER	F. PART SOURCE CODE	G. QTY.	H. PARTS COST
		(1) CB CODE	(2) REF DESIGN.	(3) MFR. CODE					
					.				\$
					.				\$
					.				\$
					.				\$
					.				\$
					.				\$
					.				\$
					.				\$
					.				\$
					.				\$
					.				\$
					I. TOTAL MANHOURS	J. TOTAL MANHOURS COST \$	K. TOTAL PARTS COST \$		
21. DELAY (Select One)					☐ 1 Parts	☐ 2 Manpower	☐ 3 Facilities	☐ 4 Funds	☐ 5 Tools
22. Data Transcribed									
23. SUBMITTED BY <i>Jain</i>		24. RECEIVED BY		25. WORK STARTED BY		26. INSPECTED BY		27. ACCEPTED BY	
JULIAN DATE <i>2192</i>		JULIAN DATE		JULIAN DATE		JULIAN DATE		JULIAN DATE	
28. DISPOSITION (Select One)									
☐ A To User					☐ D Evacuated				
☐ B To Stock					☐ E Cannibalization				
☐ C Salvaged									

[illegible]

Replaces edition of 1 Jan 64, which will be used

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6225477
11 Aug 1992

CENTROIDAL DISTANCES

0 TO	1	.0335261
1 TO	2	.151743
1 TO	3	.427163
1 TO	4	.113358
1 TO	5	.237901

-----PDR

THE AVERAGE X COORDINATE FOR THIS RIFLE IS: -.082
THE AVERAGE Y COORDINATE FOR THIS RIFLE IS: -.1004
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .101068

THE ANR FOR THIS RIFLE IS: .981

11 Aug 1992

FILE:/PATTERNING/CENTERFIRE_PATT/08225427

CENTERFIRE PATTERNS # 1

POA

2in circle

1in circle

3in circle

CENTROID *

OF SHOTS = 10

IN CIR

1in = 2

2in = 7

3in = 10

HE = 1.863

VS = 2.226

GS = 2.366

PATTERN #

SHOTS (BEST OF)

MAXIMUM X

MINIMUM X

MAXIMUM Y

MINIMUM Y

CENTROID X

CENTROID Y

POA TO CENTROID in.

MIN RADIUS

MEAN RADIUS

MAX RADIUS

HORIZONTAL SPREAD

VERTICAL SPREAD

EXTREME SPREAD

NUMBER IN ONE INCH CIRCLE =

NUMBER IN TWO INCH CIRCLE =

NUMBER IN THREE INCH CIRCLE =

10

9

8

1.036

.863

.881

-.833

-.718

-.700

1.232

1.131

.678

-.994

-1.095

-.993

.032

-.083

-.101

-.010

.091

-.051

.034

.123

.113

.356

.469

.339

.845

.779

.714

1.379

1.140

1.095

1.869

1.581

1.581

2.226

2.226

1.631

2.366

2.269

1.979

2

7

10

11 Aug 1992

FILE:/PATTERNING/CENTERFIRE_PATT/C6225477

CENTERFIRE PATTERNS # 2

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 = 2.759

VS = 2.522

GS = 2.769

CENTROID *

PATTERN #

2

SHOTS (BEST OF)

10

9

8

MAXIMUM X

1.573

.774

.767

MINIMUM X

-1.186

-1.011

-1.010

MAXIMUM Y

1.073

1.034

.848

MINIMUM Y

-1.449

-1.488

-.483

CENTROID X

-.067

-.242

-.235

CENTROID Y

.105

.144

.338

POA TO CENTROID in.

.124

.281

.405

MIN RADIUS

.151

.199

.174

MEAN RADIUS

.812

.716

.587

MAX RADIUS

1.612

1.489

1.075

HORIZONTAL SPREAD

2.759

1.785

1.785

VERTICAL SPREAD

2.522

2.522

1.331

EXTREME SPREAD

2.769

2.527

1.798

NUMBER IN ONE INCH CIRCLE =

3

NUMBER IN TWO INCH CIRCLE =

6

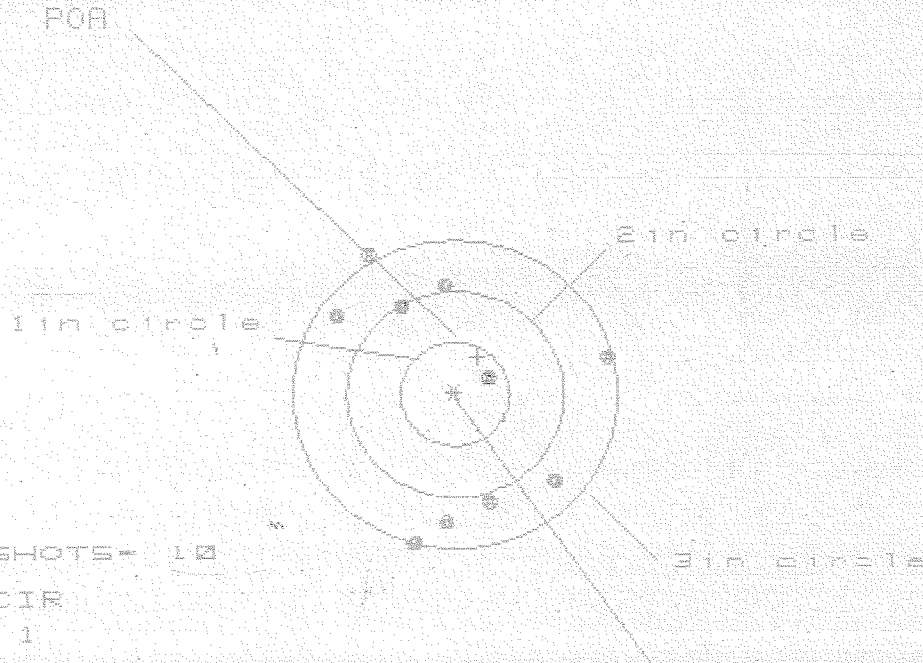
NUMBER IN THREE INCH CIRCLE =

9

11 Aug 1992

FILE:/PATTERNING/CENTERFIRE_PATT/C6225427

CENTERFIRE PATTERNS # 3



OF SHOTS= 10

IN CIR

1 in = 1

2 in = 1

3 in = 8

HS= 2.517

VS= 2.748

GS= 2.776

CENTROID *

PATTERN #				
SHOTS (BEST OF)		10	9	8
MAXIMUM X		1.428	1.346	.953
MINIMUM X		-1.089	-1.171	-1.003
MAXIMUM Y		1.358	1.200	1.259
MINIMUM Y		-1.390	-1.239	-1.180
CENTROID X		-.210	-.128	-.296
CENTROID Y		-.362	-.513	-.572
POA TO CENTROID in.		.419	.529	.644
MIN RADIUS		.332	.381	.531
MEAN RADIUS		1.171	1.119	1.082
MAX RADIUS		1.549	1.480	1.391
HORIZONTAL SPREAD		2.517	2.517	1.956
VERTICAL SPREAD		2.748	2.439	2.439
EXTREME SPREAD		2.776	2.554	2.511
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		1	
NUMBER IN THREE INCH CIRCLE	=		9	

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CENTERFIRE PATTERNS # 4

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS= 10

IN CIR

1 in = 0

2 in = 7

3 in = 10

HS= 1.599

VS= 2.162

GS= 2.423

PATTERN #

11

SHOTS (BEST OF)

10

9

8

MAXIMUM X .620

.666

.586

MINIMUM X -.979

-.933

-1.913

MAXIMUM Y 1.000

.871

.920

MINIMUM Y -1.162

-.895

-.707

CENTROID X .009

-.037

.043

CENTROID Y -.121

.008

-.103

POA TO CENTROID IN. .121

.038

.109

MIN RADIUS .500

.617

.485

MEAN RADIUS .906

.871

.824

MAX RADIUS 1.233

1.000

1.038

HORIZONTAL SPREAD 1.599

1.599

1.599

VERTICAL SPREAD 2.162

1.766

1.707

EXTREME SPREAD 2.423

2.115

1.933

NUMBER IN ONE INCH CIRCLE = 0

7

NUMBER IN TWO INCH CIRCLE = 10

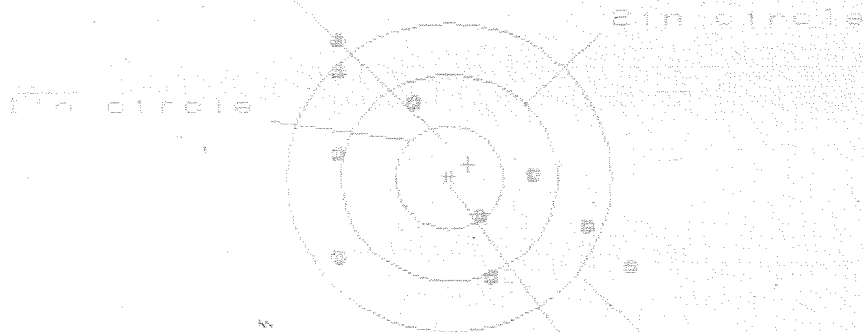
10

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CENTERFIRE PATTERNS # 5

POA



OF SHOTS = 10

IN CIR

1 = 1

2 = 1

3 = 8

ME = 3.000

SE = 2.345

GS = 3.416

CENTROID =

PATTERN #

SHOTS (BEST OF)

	10	9	8
MAXIMUM X	1.664	1.412	1.212
MINIMUM X	-1.060	-0.847	-0.947
MAXIMUM Y	1.382	1.241	1.103
MINIMUM Y	-1.013	-1.104	-0.549
CENTROID X	-0.174	-0.359	-0.259
CENTROID Y	-0.129	-0.038	-0.130
POA TO CENTROID IN.	0.217	0.361	0.323
MIN RADIUS	0.446	0.692	0.451
MEAN RADIUS	1.171	1.088	1.052
MAX RADIUS	1.856	1.509	1.454
HORIZONTAL SPREAD	2.695	2.259	2.239
VERTICAL SPREAD	2.345	2.345	2.052
EXTREME SPREAD	3.416	2.837	2.700
NUMBER IN ONE INCH CIRCLE =	1	1	1
NUMBER IN TWO INCH CIRCLE =	2	3	3
NUMBER IN THREE INCH CIRCLE =	8	8	8