

C6522149

MODEL 760™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

\*Includes 1 in chamber.

*Remington*

*Smeal*®



Remington Test Lab, Ilion, N.Y.

Centroidal distance calculations for Rifle # C6522149  
3 Apr 2001

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .1192  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0332  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .123737

THE AMR FOR THIS RIFLE IS: 1.477

# CENTROIDAL DISTANCES

|   |    |   |         |
|---|----|---|---------|
| 0 | TO | 1 | .314358 |
| 1 | TO | 2 | .349367 |
| 1 | TO | 3 | .195167 |
| 1 | TO | 4 | .324094 |
| 1 | TO | 5 | .204463 |

$\begin{matrix} 4 & 3 \\ 2 & 5 \\ 5 & 1 \end{matrix}$  <----POA

PATTERN #: ☐ 1 ☐

POA TO CENTROID: .315

MIN RADIUS : .958

MEAN RADIUS : 2.038

MAX RADIUS : 3.205

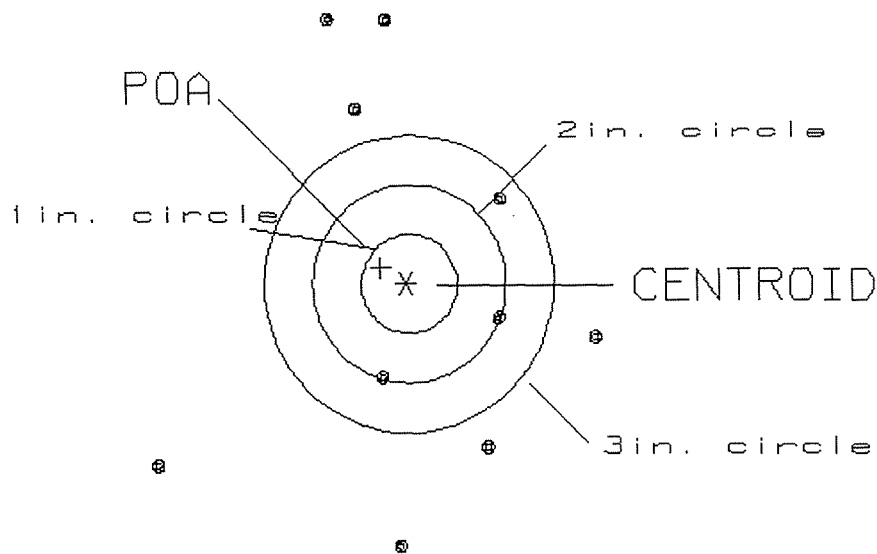
CENTROID X : .270

CENTROID Y : -.161

3 Apr 2001

FILE:/Hpbasic/Accuracy/Patterning/Centerfire\_Patt/C6522149

## CENTERFIRE PATTERN # 1



# OF SHOTS= 10

# IN CIRCLE

HS= 4.58

0

VS= 5.36

1

GS= 5.38

3

PATTERN #: ☐ 2 ☐

POA TO CENTROID: .047

MIN RADIUS : .690

MEAN RADIUS : 1.545

MAX RADIUS : 3.393

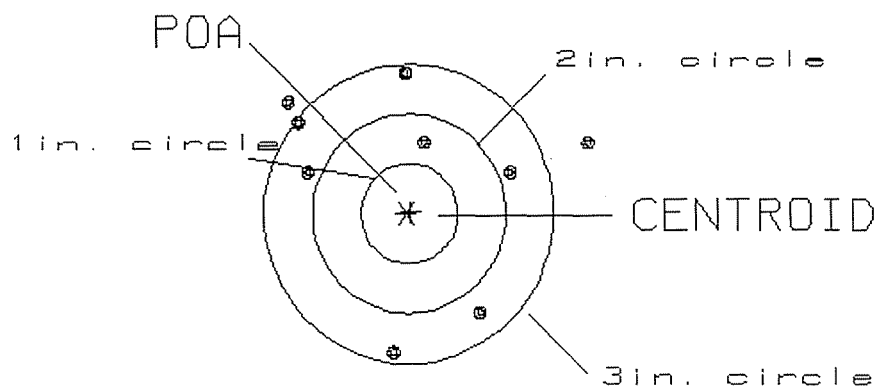
CENTROID X : -.046

CENTROID Y : -.012

3 Apr 2001

FILE:/Hqbasic/Accuracy/Patterning/Centerfire\_Patt/C6522149

## CENTERFIRE PATTERN # 2



# OF SHOTS= 10

# IN CIRCLE

HS= 3.08

0

VS= 4.85

1

GS= 4.85

7

PATTERN #: ☐ 3 ☐

POA TO CENTROID: .243

MIN RADIUS : .534

MEAN RADIUS : 1.346

MAX RADIUS : 2.207

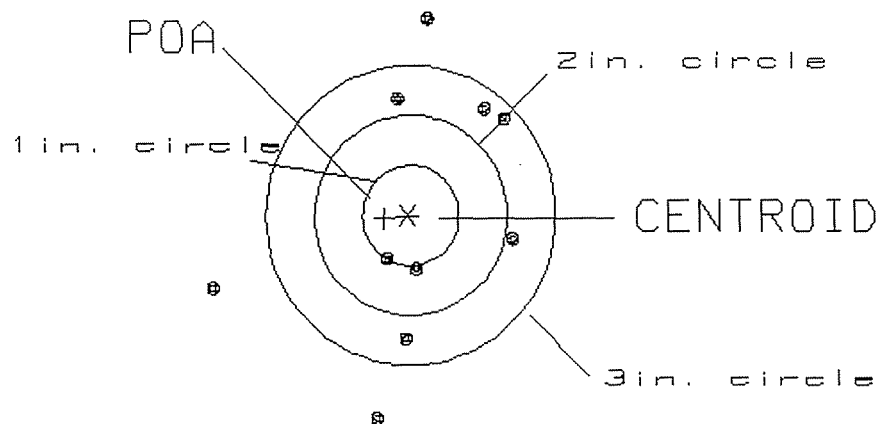
CENTROID X : .241

CENTROID Y : .032

3 Apr 2001

FILE:/Hpbasic/Accuracy/Patterning/Centerfire\_Patt/C6522149

## CENTERFIRE PATTERN # 3



# OF SHOTS= 10

# IN CIRCLE

HS= 3.14

0

VS= 3.92

2

GS= 3.95

7

PATTERN #: ☐ 4 ☐

POA TO CENTROID: .104

MIN RADIUS : .307

MEAN RADIUS : 1.182

MAX RADIUS : 2.426

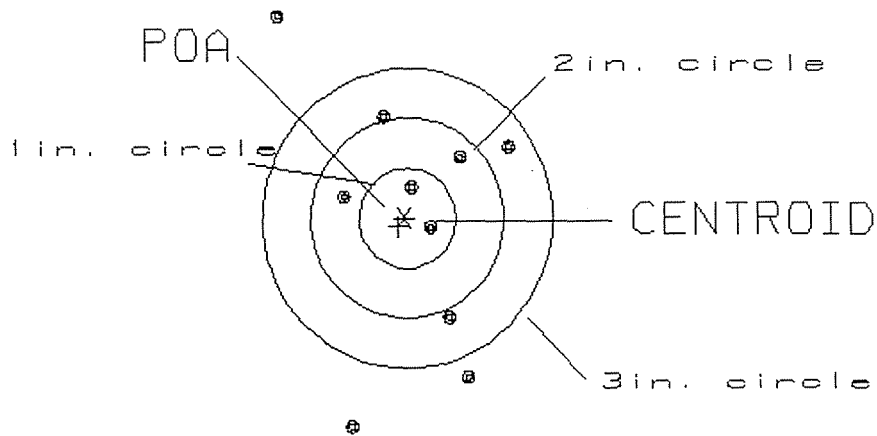
CENTROID X : .059

CENTROID Y : .085

3 Apr 2001

FILE:/Hpbasic/Accuracy/Patterning/Centerfire\_Patt/C6522149

## CENTERFIRE PATTERN # 4



# OF SHOTS= 10

# IN CIRCLE

HS= 2.45

2

VS= 4.09

4

GS= 4.17

7

PATTERN #: ☐ 5 ☐

POA TO CENTROID: .132

MIN RADIUS : .285

MEAN RADIUS : 1.246

MAX RADIUS : 2.890

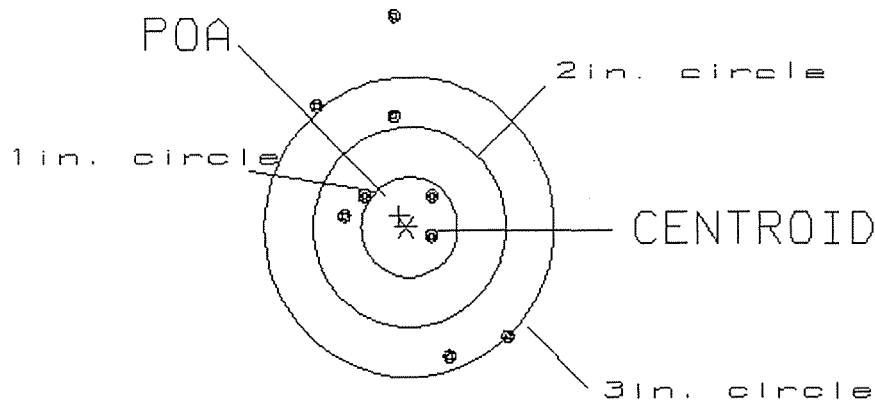
CENTROID X : .072

CENTROID Y : -.110

3 Apr 2001

FILE:/Hpbasic/Accuracy/Patterning/Centerfire\_Patt/C6522149

## CENTERFIRE PATTERN # 5



# OF SHOTS= 10

# IN CIRCLE

HS= 1.92

2

VS= 4.96

4

GS= 4.99

7

Remington Test Lab, Ilion, N.Y.

Centroidal distance calculations for Rifle # C6522149  
4 Apr 2001

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0016  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0248  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0248516

THE AMR FOR THIS RIFLE IS: 1.212

### CENTROIDAL DISTANCES

|   |    |   |         |
|---|----|---|---------|
| 0 | TO | 1 | .175932 |
| 1 | TO | 2 | .251287 |
| 1 | TO | 3 | .128996 |
| 1 | TO | 4 | .397334 |
| 1 | TO | 5 | .137888 |

2<sup>5</sup><sub>3</sub><sup>1</sup>  
+  
4 <----POA

PATTERN #: ☐ 1 ☐

POA TO CENTROID: .176

MIN RADIUS : .309

MEAN RADIUS : 1.622

MAX RADIUS : 5.312

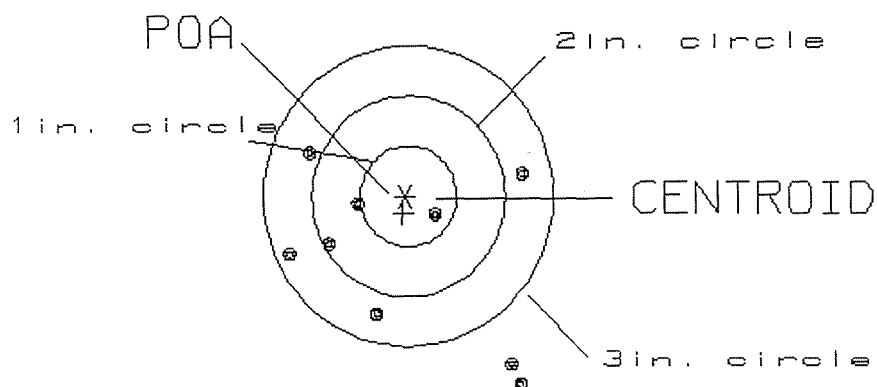
CENTROID X : .026

CENTROID Y : .174

4 Apr 2001

FILE:/Hpbasic/Accuracy/Patterning/Centerfire\_Patt/C6522149.1.1.1.1

## CENTERFIRE PATTERN # 1



# OF SHOTS= 10

# IN CIRCLE

HS= 2.43

1

VS= 7.21

3

GS= 7.27

7

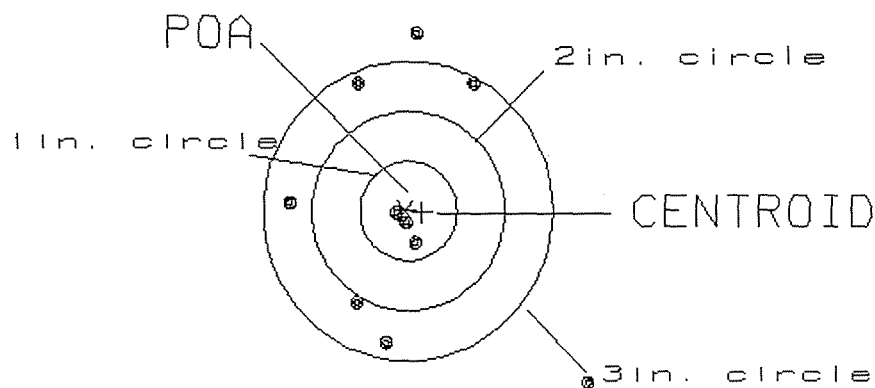
PATTERN #: ☐ 2 ☐

POA TO CENTROID: .172  
MIN RADIUS : .143  
MEAN RADIUS : 1.120  
MAX RADIUS : 2.559  
CENTROID X : -.171  
CENTROID Y : .018

4 Apr 2001

FILE:/Hpbasic/Accuracy/Patterning/Centerfire\_Patt/CG522149.1.1.1

## CENTERFIRE PATTERN # 2



# OF SHOTS= 10

# IN CIRCLE

HS= 3.08

3

VS= 3.49

3

GS= 3.94

8

PATTERN #: ☐ 3 ☐

POA TO CENTROID: .062

MIN RADIUS : .325

MEAN RADIUS : 1.164

MAX RADIUS : 1.997

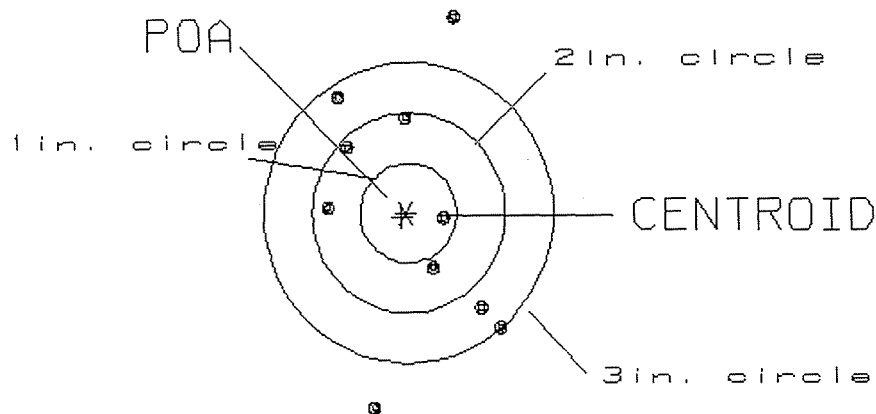
CENTROID X : .042

CENTROID Y : .046

4 Apr 2001

FILE:/Hpbasic/Accuracy/Patterning/Centerfire\_Patt/CG522149.1.1.1

## CENTERFIRE PATTERN # 3



# OF SHOTS= 10

# IN CIRCLE

HS= 1.80

1

VS= 3.91

5

GS= 3.98

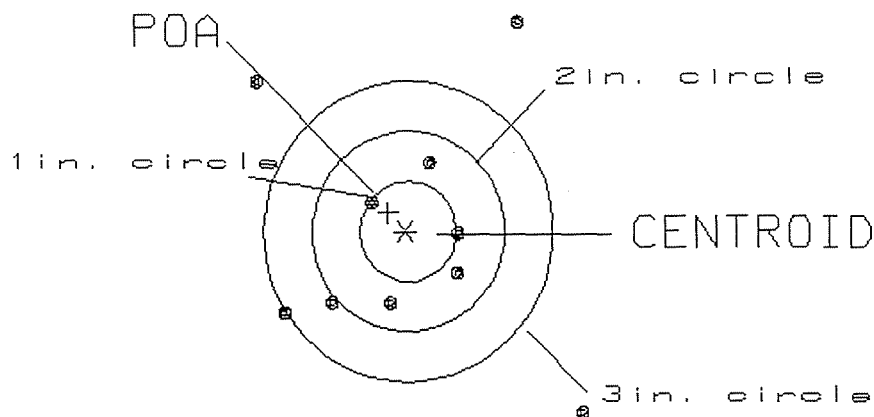
8

PATTERN #: ☐ 4 ☐  
POA TO CENTROID: .265  
MIN RADIUS : .477  
MEAN RADIUS : 1.279  
MAX RADIUS : 2.553  
CENTROID X : .183  
CENTROID Y : -.191

4 Apr 2001

FILE:/Hpbasic/Accuracy/Patterning/Centerfire\_Patt/C6522149.1.1.1

## CENTERFIRE PATTERN # 4



# OF SHOTS= 10

# IN CIRCLE

HS= 3.40  
VS= 3.63  
GS= 4.70

1  
5  
6

PATTERN #: ☐ 5 ☐

POA TO CENTROID: .105

MIN RADIUS : .263

MEAN RADIUS : .873

MAX RADIUS : 1.684

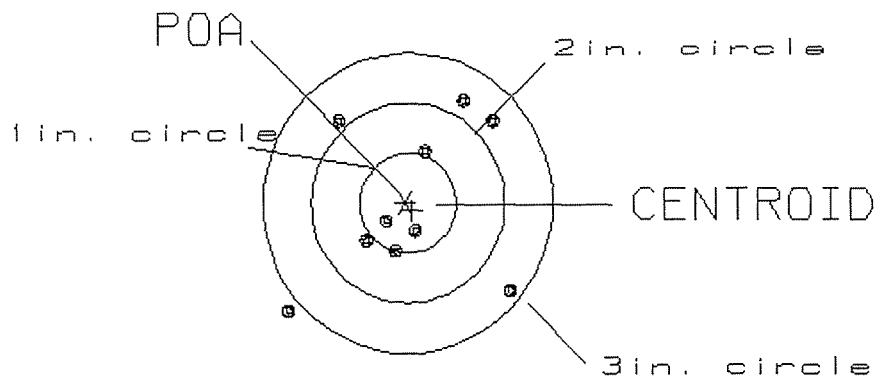
CENTROID X : -.072

CENTROID Y : .077

4 Apr 2001

FILE:/Hpbasic/Accuracy/Patterning/Centerfire\_Patt/C6522149.1.1.1

## CENTERFIRE PATTERN # 5



# OF SHOTS= 10

# IN CIRCLE

HS= 2.38

2

VS= 2.12

5

GS= 2.86

9

**M-24 INSPECTION CHECKLIST**  
**CONTRACT #: DAAE-20-97-C-242**

|                                      |                          |                  |                |
|--------------------------------------|--------------------------|------------------|----------------|
| <b>R &amp; E NUMBER</b>              |                          |                  |                |
| <b>SERIAL NUMBER</b> <i>C6522149</i> |                          |                  |                |
| <b>LOG-IN DATE</b> <i>2-17-01</i>    |                          |                  |                |
| <b>INSPECT AND VERIFY:</b>           |                          |                  |                |
| <b>OPERATION #</b>                   | <b>OPERATION NAME</b>    | <b>DATE</b>      | <b>INITIAL</b> |
| 550                                  | DIS-ASSEMBLE GUN         | <i>2-21-01</i>   | <i>CK</i>      |
| 560 A                                | RE-BARREL AT CUSTOM SHOP |                  |                |
| B                                    | DRILL AND TAP            |                  |                |
| C                                    | POLISH                   |                  |                |
| 575                                  | ASSEMBLE                 |                  |                |
| 600                                  | PROOF                    | <i>3-23-01</i>   | <i>RW</i>      |
| 605                                  | CHECK HEADSPACE          | <i>3-23-01</i>   | <i>RW</i>      |
| 610                                  | DIS-ASSEMBLE GUN         |                  |                |
| 612                                  | MAGNAFLUX                |                  |                |
| 615                                  | ROLLMARK CALIBER         |                  |                |
| 618                                  | ROTO-BLAST               |                  |                |
| 620                                  | APPLY COATINGS           |                  |                |
| 625 A                                | FINAL ASSEMBLY           |                  |                |
| B                                    | TRIGGER PULL TEST        |                  |                |
| C                                    | SAFETY "ON" FORCE        |                  |                |
| D                                    | SAFETY "OFF" FORCE       |                  |                |
| E                                    | FIRING PIN INDENT        |                  |                |
| 640                                  | TARGET                   | <i>4-2-01</i>    | <i>RW</i>      |
| 655                                  | FINAL INSPECT            | <i>4-3-01</i>    | <i>RW</i>      |
| 660                                  | PACK                     |                  |                |
|                                      |                          | <b>SHIP DATE</b> |                |
| <b>QAR INSPECTION DATE</b>           |                          |                  |                |

## Final Inspection

|               |                     |             |
|---------------|---------------------|-------------|
| S.N: C6522149 | DATE REC'D: 2-17-01 | DATE RET'D: |
| AUDITOR: CK   |                     |             |

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: \_\_\_\_\_

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**Remington®** **DUPONT**  
REG. U.S. PAT. & TM. OFF.

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

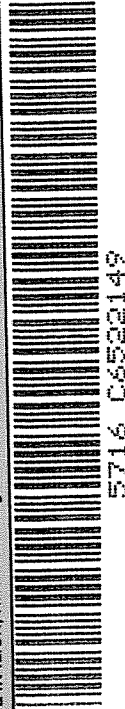
**MODEL 700™ H24**

**SERIAL NO.**  
C6522149

**ORDER NO.**  
**5716**

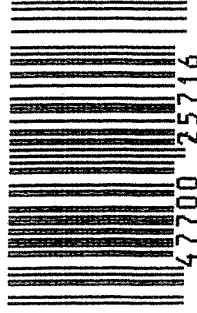
MADE IN ILLION, N.Y. U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada Marque Deposee.

Ø1



5716 C6522149

UPC



0 47700 25716 7

2.69

2.52

2.48

2.47

2.45

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6522149

| OP. #        | OP. NAME                                                       | READINGS | DATE    | INIT |
|--------------|----------------------------------------------------------------|----------|---------|------|
| 575 &<br>580 | Assemble Action<br>and Stock                                   | 8 2      | 90      | RW   |
| 600          | Proof                                                          | 8 2      | 90      | RW   |
| 607          | Check Headspace                                                | 8 2      | 90      | RW   |
| 610          | Dis-assemble Gun                                               | 8 2      |         | RW   |
| 612          | Magnaflux Barrel<br>Action                                     |          | 8/7/90  | KR   |
|              | Magnaflux Bolt                                                 |          | 8/7/90  | KR.  |
| 615          | Rollmark Caliber                                               |          | 8/7/90  | Y.L. |
| 617          | Drill and Tap Sight Holes                                      |          | 8/10/90 | LB   |
| 618          | Polish Barrel                                                  |          | 8/14/90 | WLS  |
| 620          | Apply Coatings<br>(Barrel Action)                              |          | 8-22-90 | TSA  |
|              | Apply Coating (Bolt)                                           |          |         |      |
| 625          | Final Assembly<br>A) Clean inside of<br>Bolt Assembly          |          | 8/24/90 | RW   |
|              | B) Inspect Rear Firing<br>Pin Hole for Chamfer<br>in Bolt Head |          | 8/24/90 | RW   |
|              | C) Inspect Ejector Hole<br>for Chamfer                         |          | 8/24/90 | RW   |
|              | D) Oil Firing Pin Ass'y                                        |          | 8/24/90 | RW   |
|              | E) Adjust Trigger Pull to<br>Min Setting and Stake             |          | 8/28/90 | RM   |

| op. #        | OP. NAME                                                    | READINGS                |                         |                         |     | DATE    | INIT   |
|--------------|-------------------------------------------------------------|-------------------------|-------------------------|-------------------------|-----|---------|--------|
| 625<br>cont. | F) Safety On Force                                          | 5                       | 5                       | 5                       |     | 8/28/90 | WLB    |
|              | G) Safety Off Force                                         | 2 1/2                   | 2 1/2                   | 2 1/2                   |     | 8/28/90 | WLB    |
|              | H) Trigger Pull Test & Retainability                        |                         |                         |                         |     | 8/28/90 | JH     |
|              | I) Firing Pin Indent                                        | <sup>0022</sup><br>0025 | <sup>0022</sup><br>0022 | <sup>0022</sup><br>0022 |     | 8/28/90 | WLB    |
|              | J) Assemble Stock                                           |                         |                         |                         |     | 9/6/90  | RW     |
|              | K) Assemble Swivel Studs                                    |                         |                         |                         |     | 9/9/90  | JS     |
|              | L) Attach Front and Rear Sight Assemblies                   |                         |                         |                         |     | 9/6/90  | RW     |
|              | M) Iron Sight Alignment                                     |                         |                         |                         |     | 9/6/90  | RW     |
|              | N) Detach Front & Rear Sights & place in numbered container |                         |                         |                         |     | 9/6/90  | RW     |
|              | O) Attach Scope to Rifle                                    |                         |                         |                         |     | 9/6/90  | RW     |
|              | P) Detach & Attach Scope 20 Times                           |                         |                         |                         |     | 9/6/90  | RW     |
| 640          | Gallery Target & Test                                       |                         |                         |                         |     | 9/8/90  | NF     |
|              | A) Time                                                     |                         |                         |                         |     | 9/8/90  | NF     |
|              | B) Malfunctions                                             |                         |                         |                         |     | 9/8/90  | NF     |
|              | C) Pierced Primers                                          |                         |                         |                         |     | 9/8/90  | NF     |
|              | D) Optical Clarity of Scope                                 |                         |                         |                         |     | 9/8/90  | NF     |
| 645          | Inspect for Live Ammo                                       |                         |                         |                         |     | 9/8/90  | NF     |
| 655          | Final Inspection                                            |                         |                         |                         |     | 9/9/90  | JS     |
|              | A) Headspace                                                |                         |                         |                         |     |         |        |
|              | B) Trigger Pull                                             | 245                     | 240                     | 227                     | 238 | 241     | 9/9/90 |
|              | C) Function                                                 |                         |                         |                         |     | 9/9/90  | JS     |
| 660          | Pack                                                        |                         |                         |                         |     | 9-28-90 | JH     |

AVERAGE PULL FORCE BETWEEN  
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6522149

DATE 8/28/90

TESTER JH

|         | 2.50#<br>INITIAL | 2.50# AFTER<br>50 CYCLES | FINAL TEST &<br>TO RESET 2.50# |     | COMMENTS                                                               |
|---------|------------------|--------------------------|--------------------------------|-----|------------------------------------------------------------------------|
| PULL #1 | 2.29             | 2.36                     | 2.38                           | 245 | MIN. SETTING,<br>NO AVG. OF 5<br>READINGS ACCEPT-<br>ABLE LESS THAN 2# |
| PULL #2 | 2.25             | 2.30                     | 2.41                           | 240 |                                                                        |
| PULL #3 | 2.30             | 2.42                     | 2.43                           | 227 |                                                                        |
| PULL #4 | 2.32             | 2.36                     | 2.38                           | 238 |                                                                        |
| PULL #5 | 2.39             | 2.41                     | 2.30                           | 241 |                                                                        |
| TOTAL   | 11.55            | 11.85                    | 11.90                          |     |                                                                        |
| AVG.    | 2.31             | 2.37                     | 2.38                           |     |                                                                        |

|         | 3.00#<br>INITIAL | 3.00# AFTER<br>20 CYCLES |  | COMMENTS |
|---------|------------------|--------------------------|--|----------|
| PULL #1 | 3.13             | 3.42                     |  |          |
| PULL #2 | 3.41             | 3.40                     |  |          |
| PULL #3 | 3.38             | 3.41                     |  |          |
| PULL #4 | 3.36             | 3.37                     |  |          |
| PULL #5 | 3.40             | 3.43                     |  |          |
| TOTAL   | 16.68            | 17.03                    |  |          |
| AVG.    | 3.336            | 3.406                    |  |          |

|         | 4.00#<br>INITIAL | 4.00# AFTER<br>20 CYCLES | MAX SETTING<br>GREATER THAN 4# | RESET TO 4# FOR<br>TARGET & ACCURACY |
|---------|------------------|--------------------------|--------------------------------|--------------------------------------|
| PULL #1 | 4.21             | 4.21                     |                                | 4.15                                 |
| PULL #2 | 4.20             | 4.20                     |                                | 4.16                                 |
| PULL #3 | 4.14             | 4.15                     |                                | 4.15                                 |
| PULL #4 | 4.18             | 4.17                     |                                | 4.14                                 |
| PULL #5 | 4.20             | 4.18                     |                                | 4.15                                 |
| TOTAL   | 20.85            | 20.91                    |                                | 20.75                                |
| AVG.    | 4.17             | 4.182                    |                                | 4.15                                 |

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # C6522149  
8 Sep 1990

CENTROIDAL DISTANCES

|      |   |         |
|------|---|---------|
| 0 TO | 1 | .21822  |
| 1 TO | 2 | .052345 |
| 1 TO | 3 | .708138 |
| 1 TO | 4 | .832493 |
| 1 TO | 5 | .160963 |

4  
#

<----FOR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.2504  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0356  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .252918

THE AMR FOR THIS RIFLE IS: 1.164

8 Sep 1998

FILE:/PATTERNING/CENTERFIRE\_PATT/06522149

## CENTERFIRE PATTERNS # 1

POA

1 in circle

2 in circle

3 in circle

CENTROID \*

# OF SHOTS- 10

# IN CIR

1 in = 3

2 in = 8

3 in = 9

HS= 2.061

VS= 2.261

GS= 2.281

| PATTERN #                     | 1      | 2     | 3     |
|-------------------------------|--------|-------|-------|
| SHOTS (BEST OF)               | 10     | 9     | 8     |
| MAXIMUM X                     | 1.248  | 1.267 | 1.119 |
| MINIMUM X                     | -.813  | -.794 | -.636 |
| MAXIMUM Y                     | .719   | .547  | .584  |
| MINIMUM Y                     | -1.542 | -.917 | -.880 |
| CENTROID X                    | -.066  | -.085 | -.243 |
| CENTROID Y                    | -.208  | -.036 | -.073 |
| POA TO CENTROID in.           | .218   | .092  | .254  |
| MIN RADIUS                    | .132   | .041  | .167  |
| MEAN RADIUS                   | .806   | .688  | .603  |
| MAX RADIUS                    | 1.552  | 1.301 | 1.125 |
| HORIZONTAL SPREAD             | 2.061  | 2.061 | 1.755 |
| VERTICAL SPREAD               | 2.261  | 1.464 | 1.464 |
| EXTREME SPREAD                | 2.281  | 2.194 | 1.818 |
| NUMBER IN ONE INCH CIRCLE =   | 3      |       |       |
| NUMBER IN TWO INCH CIRCLE =   | 8      |       |       |
| NUMBER IN THREE INCH CIRCLE = | 9      |       |       |

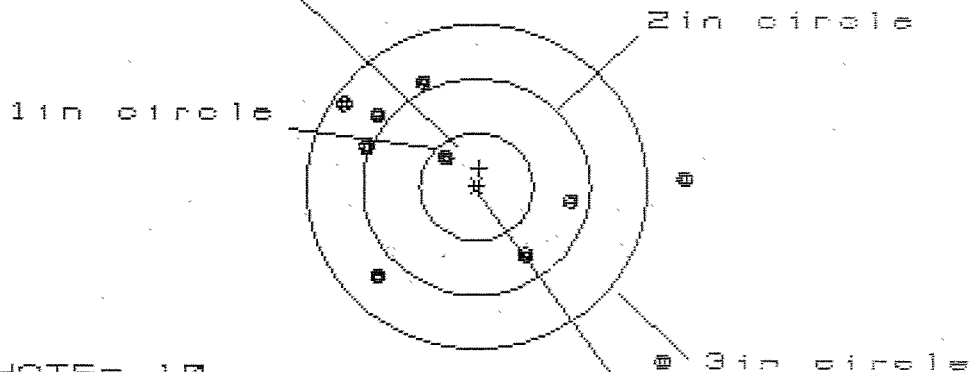
8 Sep 1990

FILE:/PATTERNING/CENTERFIRE\_PATT/C8522143

## CENTERFIRE PATTERNS

# 2

POA



# OF SHOTS= 10

# IN CIR

1in = 1

2in = 3

3in = 8

HS= 2.923

VS= 2.590

GS= 3.651

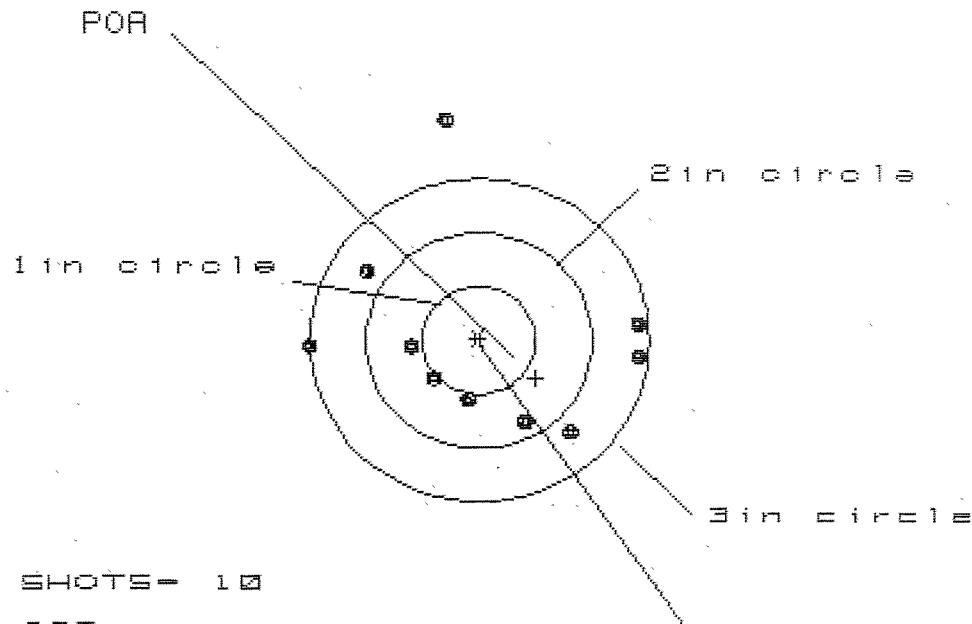
CENTROID #

| PATTERN #                     | 2      | 9      | 8      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | 1.788  | 1.966  | 1.264  |
| MINIMUM X                     | -1.135 | -.957  | -.711  |
| MAXIMUM Y                     | .981   | .802   | .786   |
| MINIMUM Y                     | -1.609 | -1.035 | -1.051 |
| CENTROID X                    | -.028  | -.206  | -.452  |
| CENTROID Y                    | -.172  | .007   | .023   |
| POA TO CENTROID in.           | .174   | .207   | .453   |
| MIN RADIUS                    | .405   | .154   | .194   |
| MEAN RADIUS                   | 1.199  | 1.020  | .856   |
| MAX RADIUS                    | 2.275  | 1.971  | 1.317  |
| HORIZONTAL SPREAD             | 2.923  | 2.923  | 1.975  |
| VERTICAL SPREAD               | 2.590  | 1.837  | 1.837  |
| EXTREME SPREAD                | 3.651  | 3.018  | 2.202  |
| NUMBER IN ONE INCH CIRCLE =   | 1      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 3      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 8      |        |        |

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## CENTERFIRE PATTERNS # 3



# OF SHOTS = 10

# IN CIR

1in = 0

2in = 4

3in = 9

HS = 2.895

VS = 2.932

GS = 3.132

CENTROID #

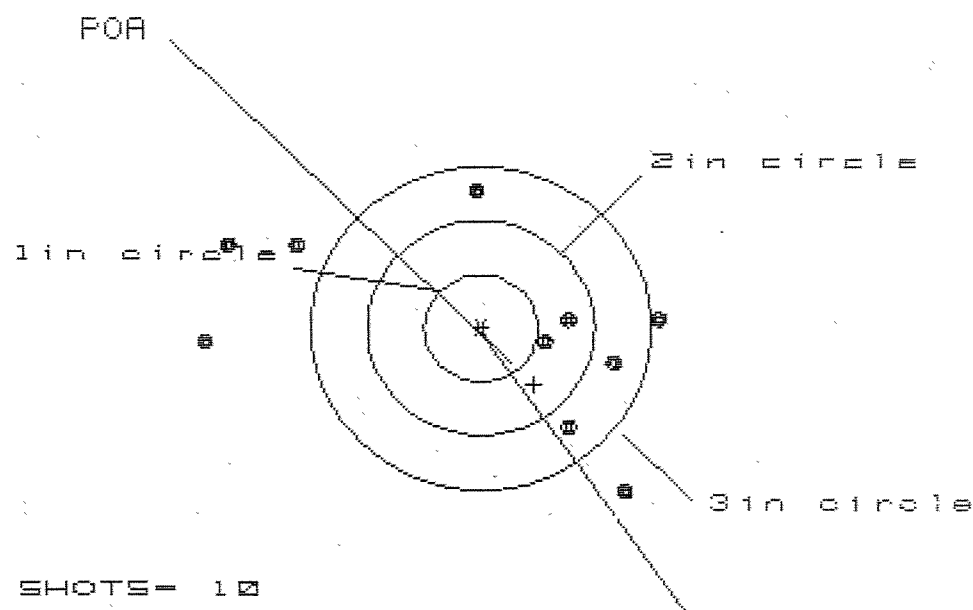
| PATTERN #                     | 3      | 9      | 8      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | 1.399  | 1.364  | 1.172  |
| MINIMUM X                     | -1.496 | -1.531 | -1.260 |
| MAXIMUM Y                     | 2.045  | .839   | .862   |
| MINIMUM Y                     | -.887  | -.660  | -.637  |
| CENTROID X                    | -.502  | -.467  | -.275  |
| CENTROID Y                    | .350   | .123   | .100   |
| POA TO CENTROID in.           | .612   | .483   | .293   |
| MIN RADIUS                    | .534   | .354   | .428   |
| MEAN RADIUS                   | 1.126  | .967   | .893   |
| MAX RADIUS                    | 2.069  | 1.542  | 1.526  |
| HORIZONTAL SPREAD             | 2.895  | 2.895  | 2.432  |
| VERTICAL SPREAD               | 2.932  | 1.499  | 1.499  |
| EXTREME SPREAD                | 3.132  | 2.898  | 2.554  |
| NUMBER IN ONE INCH CIRCLE =   | 0      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 4      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 9      |        |        |

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## CENTERFIRE PATTERNS

# 4



# OF SHOTS- 10

# IN CIR

1in = 0

2in = 2

3in = 5

HS= 3.995

VS= 2.893

GS= 4.253

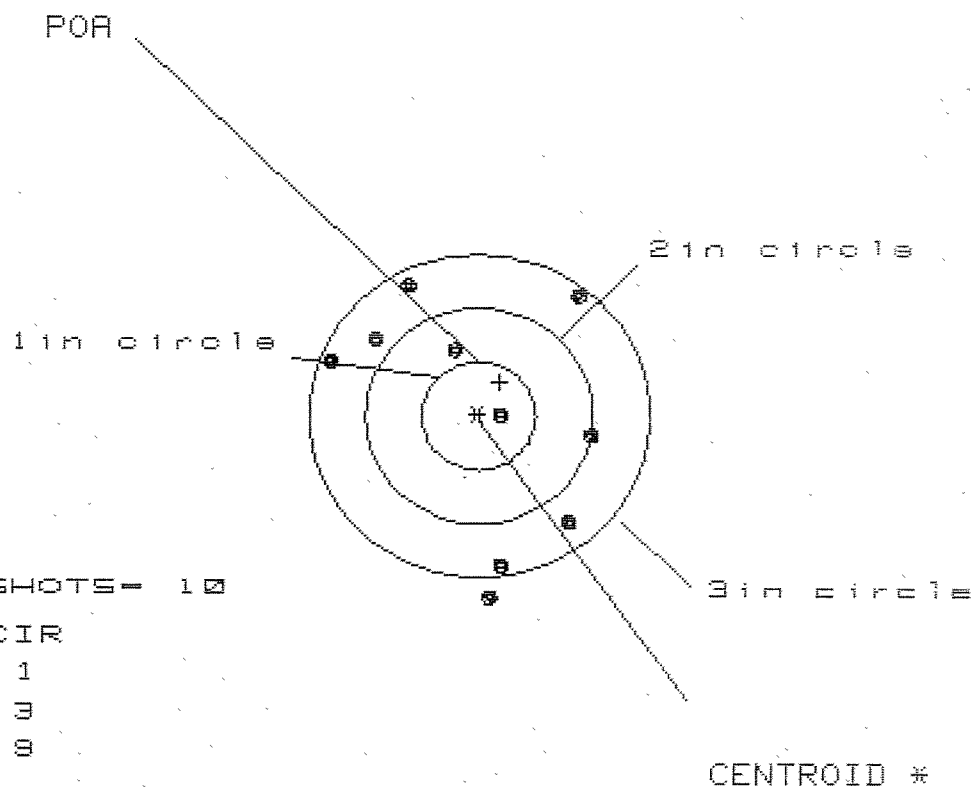
CENTROID \*

| PATTERN #                     | 4      | 9      | 8      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | 1.587  | 1.319  | 1.008  |
| MINIMUM X                     | -2.408 | -2.495 | -2.200 |
| MAXIMUM Y                     | 1.327  | 1.311  | 1.408  |
| MINIMUM Y                     | -1.566 | -1.582 | -1.485 |
| CENTROID X                    | -.468  | -.200  | .111   |
| CENTROID Y                    | .521   | .537   | .440   |
| POA TO CENTROID in.           | .700   | .573   | .454   |
| MIN RADIUS                    | .582   | .330   | .034   |
| MEAN RADIUS                   | 1.536  | 1.347  | 1.051  |
| MAX RADIUS                    | 2.413  | 2.614  | 2.346  |
| HORIZONTAL SPREAD             | 3.995  | 3.814  | 3.207  |
| VERTICAL SPREAD               | 2.893  | 2.893  | 2.893  |
| EXTREME SPREAD                | 4.253  | 4.253  | 3.724  |
| NUMBER IN ONE INCH CIRCLE =   | 0      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 2      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 5      |        |        |

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## CENTERFIRE PATTERNS # 5



# OF SHOTS- 10

# IN CIR

1in = 1

2in = 3

3in = 8

HS= 2.263

VS= 2.895

GS= 2.970

| PATTERN #                     | 5      |
|-------------------------------|--------|
| SHOTS (BEST OF)               | 10     |
| MAXIMUM X                     | .964   |
| MINIMUM X                     | -1.299 |
| MAXIMUM Y                     | 1.219  |
| MINIMUM Y                     | -1.676 |
| CENTROID X                    | -.188  |
| CENTROID Y                    | -.313  |
| POA TO CENTROID in.           | .365   |
| MIN RADIUS                    | .227   |
| MEAN RADIUS                   | 1.155  |
| MAX RADIUS                    | 1.677  |
| HORIZONTAL SPREAD             | 2.263  |
| VERTICAL SPREAD               | 2.895  |
| EXTREME SPREAD                | 2.970  |
| NUMBER IN ONE INCH CIRCLE =   | 1      |
| NUMBER IN TWO INCH CIRCLE =   | 3      |
| NUMBER IN THREE INCH CIRCLE = | 9      |

## INTERCHANGEABILITY

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # C6522149  
17 Sep 1990

## CENTROIDAL DISTANCES

|      |   |          |
|------|---|----------|
| 0 TO | 1 | .0502195 |
| 1 TO | 2 | .49366   |
| 1 TO | 3 | .342243  |
| 1 TO | 4 | .0440454 |
| 1 TO | 5 | .245082  |

#

&lt;----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0626  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .2468  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .254615  
THE AMR FOR THIS RIFLE IS: 1.214

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FILE:/PATTERNING/CENTERFIRE\_PATT/06522149.1

## CENTERFIRE PATTERNS

# 1

POA

1in circle

2in circle

3in circle

# OF SHOTS= 10

# IN CIR

1in = 1

2in = 6

3in = 8

HS= 2.132

VS= 2.902

GS= 3.239

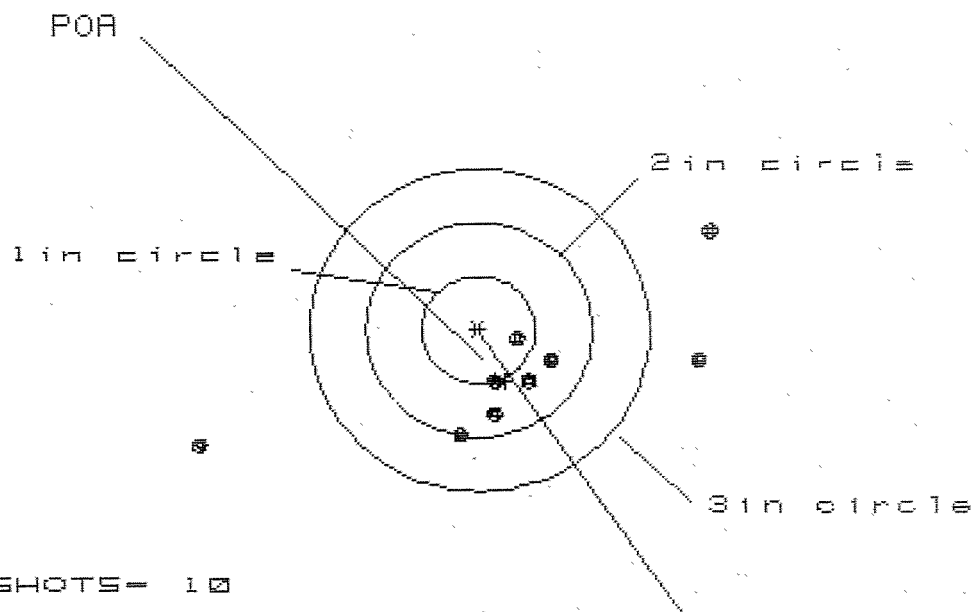
CENTROID #

| PATTERN #                     | 1      | 2      | 3      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | .790   | .641   | .617   |
| MINIMUM X                     | -1.342 | -1.345 | -1.369 |
| MAXIMUM Y                     | 1.224  | 1.074  | .846   |
| MINIMUM Y                     | -1.678 | -1.828 | -.809  |
| CENTROID X                    | .011   | .160   | .184   |
| CENTROID Y                    | .049   | .198   | .426   |
| POA TO CENTROID in.           | .050   | .254   | .464   |
| MIN RADIUS                    | .244   | .034   | .122   |
| MEAN RADIUS                   | 1.010  | .832   | .661   |
| MAX RADIUS                    | 1.898  | 1.838  | 1.437  |
| HORIZONTAL SPREAD             | 2.132  | 1.986  | 1.986  |
| VERTICAL SPREAD               | 2.902  | 2.902  | 1.655  |
| EXTREME SPREAD                | 3.239  | 2.980  | 2.235  |
| NUMBER IN ONE INCH CIRCLE =   | 1      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 6      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 8      |        |        |

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FILE:/PATTERNING/CENTERFIRE\_PATT/08522149.1

## CENTERFIRE PATTERNS # 2



# IN CIR

1 in = 2

2 in = 6

3 in = 6

HS= 4.987

VS= 4.524

GS= 6.183

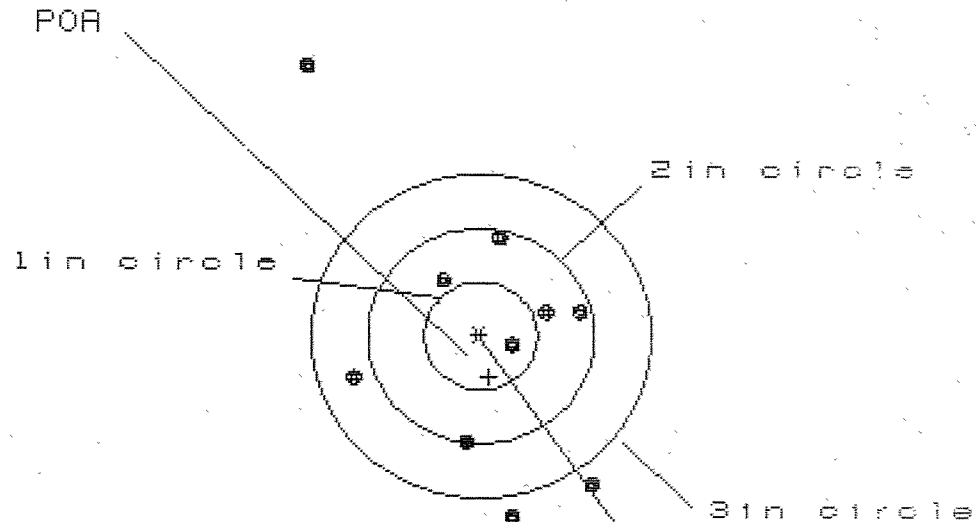
CENTROID #

| PATTERN #                     | 2      | 9      | 8     |
|-------------------------------|--------|--------|-------|
| SHOTS (BEST OF)               | 10     | 9      | 8     |
| MAXIMUM X                     | 2.019  | 1.689  | 1.339 |
| MINIMUM X                     | -2.968 | -2.804 | -.867 |
| MAXIMUM Y                     | 3.467  | 1.304  | 1.220 |
| MINIMUM Y                     | -1.057 | -.672  | -.637 |
| CENTROID X                    | -.235  | .095   | .445  |
| CENTROID Y                    | .477   | .092   | .176  |
| POA TO CENTROID in.           | .532   | .132   | .479  |
| MIN RADIUS                    | .392   | .128   | .047  |
| MEAN RADIUS                   | 1.536  | .975   | .769  |
| MAX RADIUS                    | 4.564  | 2.883  | 1.812 |
| HORIZONTAL SPREAD             | 4.987  | 4.493  | 2.206 |
| VERTICAL SPREAD               | 4.524  | 1.976  | 1.857 |
| EXTREME SPREAD                | 6.183  | 4.908  | 2.884 |
| NUMBER IN ONE INCH CIRCLE =   |        | 2      |       |
| NUMBER IN TWO INCH CIRCLE =   |        | 6      |       |
| NUMBER IN THREE INCH CIRCLE = |        | 6      |       |

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FILE:/PATTERNING/CENTERFIRE\_PATT/C8522149.1

## CENTERFIRE PATTERNS # 3



# OF SHOTS= 10

# IN CIR

1 in = 1

2 in = 5

3 in = 7

HS= 2.541

VS= 4.114

GS= 4.576

| PATTERN #                     | 3      | 9      | 8      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | .974   | .800   | .815   |
| MINIMUM X                     | -1.567 | -1.287 | -1.272 |
| MAXIMUM Y                     | 2.474  | 1.157  | .987   |
| MINIMUM Y                     | -1.640 | -1.365 | -1.227 |
| CENTROID X                    | -.076  | .098   | .083   |
| CENTROID Y                    | .380   | .105   | .275   |
| POA TO CENTROID in.           | .387   | .143   | .288   |
| MIN RADIUS                    | .276   | .263   | .136   |
| MEAN RADIUS                   | 1.175  | .962   | .871   |
| MAX RADIUS                    | 2.929  | 1.370  | 1.473  |
| HORIZONTAL SPREAD             | 2.541  | 2.087  | 2.087  |
| VERTICAL SPREAD               | 4.114  | 2.522  | 2.214  |
| EXTREME SPREAD                | 4.576  | 2.523  | 2.344  |
| NUMBER IN ONE INCH CIRCLE =   |        | 1      |        |
| NUMBER IN TWO INCH CIRCLE =   |        | 6      |        |
| NUMBER IN THREE INCH CIRCLE = |        | 7      |        |

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FILE:/PATTERNING/CENTERFIRE\_PATT/08522149.1

## CENTERFIRE PATTERNS

# 4

POA

1in circle

2in circle

3in circle

# OF SHOTS- 10

# IN CIR

1in = 2

2in = 5

3in = 9

HS= 2.901

VS= 2.188

CS= 3.481

CENTROID #

PATTERN # :

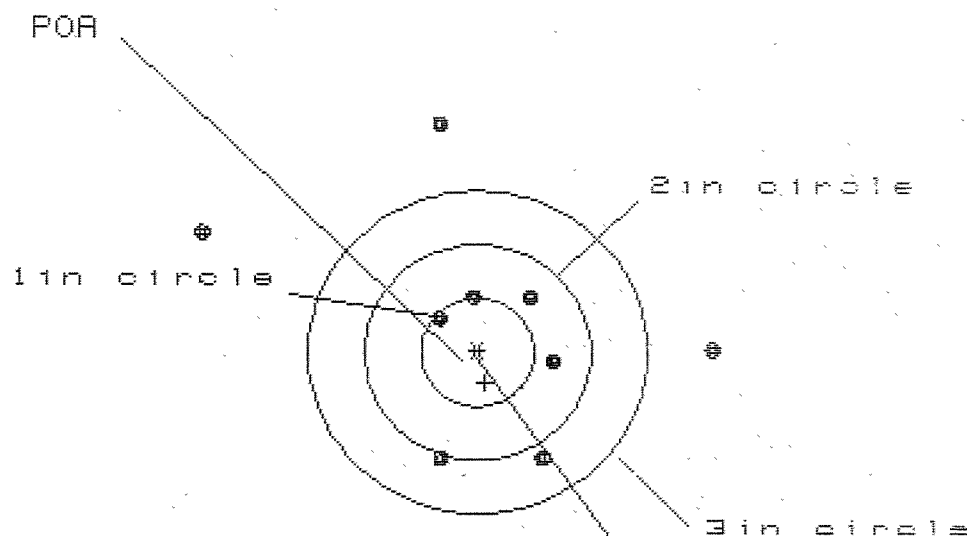
4

| SHOTS (BEST OF)               | 10     | 9     | 8     |
|-------------------------------|--------|-------|-------|
| MAXIMUM X                     | 1.809  | 1.012 | .901  |
| MINIMUM X                     | -1.092 | -.891 | -.991 |
| MAXIMUM Y                     | 1.025  | .895  | .974  |
| MINIMUM Y                     | -1.163 | -.766 | -.687 |
| CENTROID X                    | .055   | -.146 | -.035 |
| CENTROID Y                    | .047   | .177  | .098  |
| POA TO CENTROID in.           | .072   | .229  | .104  |
| MIN RADIUS                    | .245   | .400  | .303  |
| MEAN RADIUS                   | .962   | .834  | .777  |
| MAX RADIUS                    | 2.151  | 1.118 | 1.147 |
| HORIZONTAL SPREAD             | 2.901  | 1.903 | 1.892 |
| VERTICAL SPREAD               | 2.188  | 1.661 | 1.661 |
| EXTREME SPREAD                | 3.481  | 2.201 | 1.901 |
| NUMBER IN ONE INCH CIRCLE =   |        | 2     |       |
| NUMBER IN TWO INCH CIRCLE =   |        | 5     |       |
| NUMBER IN THREE INCH CIRCLE = |        | 9     |       |

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FILE:/PATTERNING/CENTERFIRE\_PATT/C8522149.1

## CENTERFIRE PATTERNS # 5



# OF SHOTS= 10

# IN CIR

1in = 1

2in = 4

3in = 6

HS= 4.494

VS= 4.672

GS= 4.672

CENTROID \*

PATTERN #

5

| SHOTS (BEST OF)               | 10     | 9      | 8      |
|-------------------------------|--------|--------|--------|
| MAXIMUM X                     | 2.077  | 1.809  | 1.733  |
| MINIMUM X                     | -2.417 | -.649  | -.725  |
| MAXIMUM Y                     | 2.163  | 2.283  | 1.985  |
| MINIMUM Y                     | -2.509 | -2.389 | -1.147 |
| CENTROID X                    | -.068  | .200   | .276   |
| CENTROID Y                    | .281   | .161   | .459   |
| POA TO CENTROID in.           | .289   | .257   | .536   |
| MIN RADIUS                    | .428   | .425   | .319   |
| MEAN RADIUS                   | 1.386  | 1.224  | 1.033  |
| MAX RADIUS                    | 2.648  | 2.464  | 2.113  |
| HORIZONTAL SPREAD             | 4.494  | 2.458  | 2.458  |
| VERTICAL SPREAD               | 4.672  | 4.672  | 3.132  |
| EXTREME SPREAD                | 4.672  | 4.672  | 3.274  |
| NUMBER IN ONE INCH CIRCLE =   |        | 1      |        |
| NUMBER IN TWO INCH CIRCLE =   |        | 4      |        |
| NUMBER IN THREE INCH CIRCLE = |        | 6      |        |