

MODEL 7007M  
NEW

### Action

Barrel Length

## Capacity

Order No. **5715**

\*Includes 1 in chamber.

Remington



Remington Test Lab, Ilion, N.Y.

Centroidal distance calculations for Rifle # c6587678  
8 Sep 2000

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .017  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .1392  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .140234

THE AMR FOR THIS RIFLE IS: 1.055

# CENTROIDAL DISTANCES

|   |    |   |         |
|---|----|---|---------|
| 0 | TO | 1 | .2049   |
| 1 | TO | 2 | .359001 |
| 1 | TO | 3 | .116211 |
| 1 | TO | 4 | .24001  |
| 1 | TO | 5 | .277541 |

4  
13.52 <----POA

REMINGTON CENTERFIRE ACCURACY TEST

REMINGTON TEST LAB, ILION, N.Y.

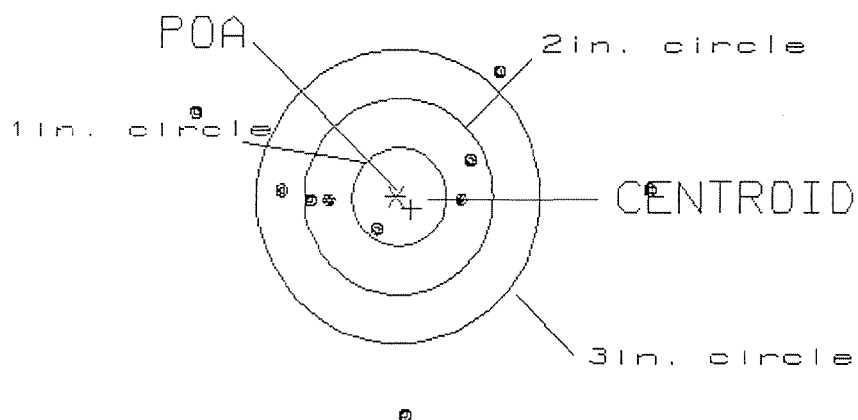
PATTERN #: 1

POA TO CENTROID: .205  
 MIN RADIUS : .409  
 MEAN RADIUS : 1.373  
 MAX RADIUS : 2.671  
 CENTROID X : -.160  
 CENTROID Y : .128

7 Sep 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire\_Patt/c6587678

CENTERFIRE PATTERN # 1



# OF SHOTS= 10

# IN CIRCLE

HS= 4.78  
 VS= 3.50  
 GS= 4.85

1  
 5  
 6

REMINGTON CENTERFIRE ACCURACY TEST

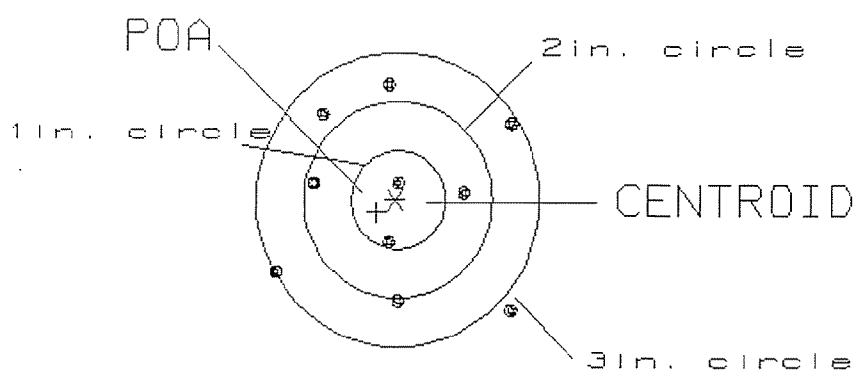
REMINGTON TEST LAB, ILION, N.Y.

PATTERN #: 2  
 POA TO CENTROID: .236  
 MIN RADIUS : .131  
 MEAN RADIUS : 1.035  
 MAX RADIUS : 1.666  
 CENTROID X : .199  
 CENTROID Y : .127

7 Sep 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire\_Patt/c6587678

CENTERFIRE PATTERN # 2



# OF SHOTS= 10

# IN CIRCLE

HS= 2.53

2

VS= 2.31

4

GS= 2.94

9

# REMINGTON CENTERFIRE ACCURACY TEST

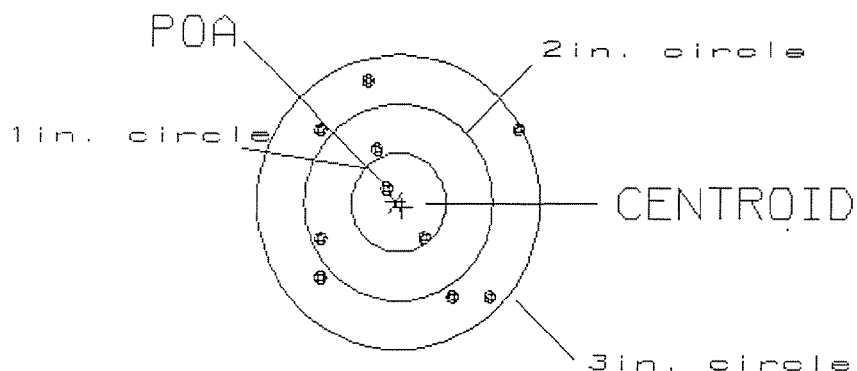
REMINGTON TEST LAB, ILION, N.Y.

PATTERN #: 3  
 POA TO CENTROID: .089  
 MIN RADIUS : .224  
 MEAN RADIUS : .960  
 MAX RADIUS : 1.494  
 CENTROID X : -.068  
 CENTROID Y : .057

7 Sep 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire\_Patt/c6587678

## CENTERFIRE PATTERN # 3



# OF SHOTS= 10

# IN CIRCLE

HS= 2.08

2

VS= 2.26

4

GS= 2.64

10

# REMINGTON CENTERFIRE ACCURACY TEST

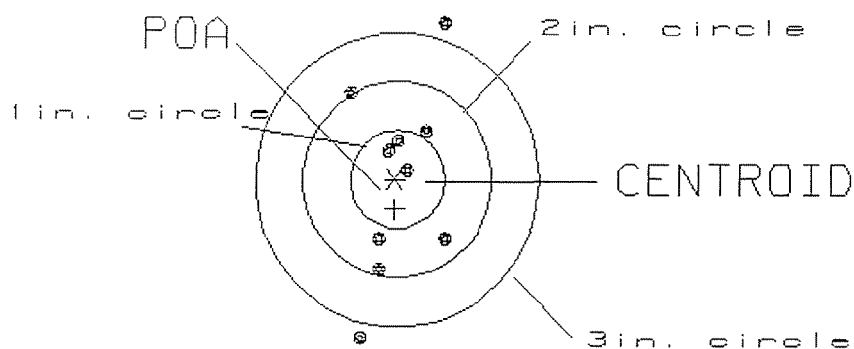
REMINGTON TEST LAB, ILION, N.Y.

PATTERN #: 4  
 POA TO CENTROID: .306  
 MIN RADIUS : .118  
 MEAN RADIUS : .806  
 MAX RADIUS : 1.674  
 CENTROID X : .001  
 CENTROID Y : .306

7 Sep 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire\_Patt/c6587678

## CENTERFIRE PATTERN # 4



# OF SHOTS= 10

# IN CIRCLE

HS= .99  
 VS= 3.16  
 GS= 3.30

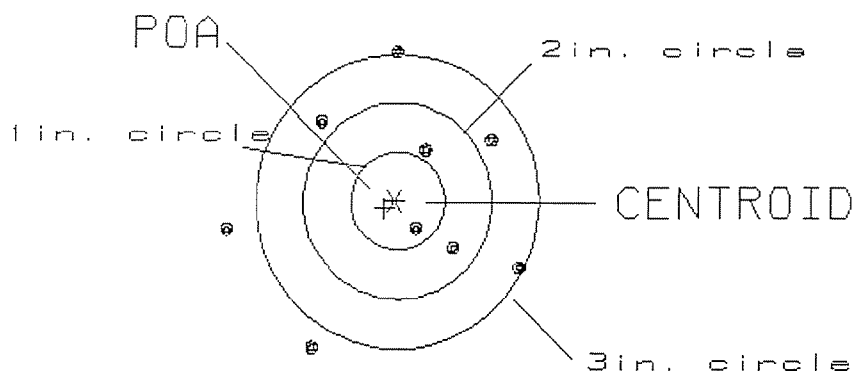
3  
 8  
 8

PATTERN #: 5  
 POA TO CENTROID: .137  
 MIN RADIUS : .340  
 MEAN RADIUS : 1.102  
 MAX RADIUS : 1.832  
 CENTROID X : .113  
 CENTROID Y : .078

7 Sep 2000

FILE:/Hpbasic/Accuracy/Patterning/Centerfire\_Patt/c6587678

# CENTERFIRE PATTERN # 5



# OF SHOTS= 10

# IN CIRCLE

HS= 3.13

2

VS= 3.00

4

GS= 3.15

7

# Final Inspection

S.N. C6587628

DATE REC'D: 5-12-00

DATE RET'D:

AUDITOR: RW

Item:

Barrel Assy.

☒ BARREL

☒ RECEIVER

☒ FRONT SIGHT BLOCK

☒ REAR SIGHT BLOCK

☒ SCREWS

☒ FINISH

Scope Assy.

☐ Scope

☐ Scope Rings

☐ Mounting Screws

☒ Mounting Base

☒ SCREWS

☐ FINISH

☐ LOOSENESS

☐ CLARITY

Misc.

☐ DD-250

☐ BAR CODE

☐ PACKAGING

Item:

Stock Assy.

☒ STOCK

☒ SLING SWIVEL STUDS

☒ ADJUSTABLE BUTT PLATE

☒ LOCK NUTS

☒ BARREL CLEARANCE

☒ COLOR/FINISH

Systems Case

☐ Scope Case

☐ IRON SIGHTS

☐ Deployment Kit

Trigger

☒ SAFETY OPERATION

☒ SET

Comments:

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

| <b>R &amp; E NUMBER</b>    | 0000 9455                |                  |                |
|----------------------------|--------------------------|------------------|----------------|
| <b>SERIAL NUMBER</b>       | C6587678                 |                  |                |
| <b>LOG-IN DATE</b>         | 5-12-00                  |                  |                |
| <b>INSPECT AND VERIFY:</b> |                          |                  |                |
| <b>OPERATION #</b>         | <b>OPERATION NAME</b>    | <b>DATE</b>      | <b>INITIAL</b> |
| 550                        | DIS-ASSEMBLE GUN         | 5-15-00          | RW             |
| 560 A                      | RE-BARREL AT CUSTOM SHOP |                  |                |
| B                          | DRILL AND TAP            |                  |                |
| C                          | POLISH                   |                  |                |
| 575                        | ASSEMBLE                 |                  |                |
| 600                        | PROOF                    | 5-23-00          | RW             |
| 605                        | CHECK HEADSPACE          | 5-23-00          | RW             |
| 610                        | DIS-ASSEMBLE GUN         |                  |                |
| 612                        | MAGNAFLUX                |                  |                |
| 615                        | ROLLMARK CALIBER         |                  |                |
| 618                        | ROTO-BLAST               |                  |                |
| 620                        | APPLY COATINGS           |                  |                |
| 625 A                      | FINAL ASSEMBLY           | 9-8-00           | CK             |
| B                          | TRIGGER PULL TEST        |                  |                |
| C                          | SAFETY "ON" FORCE        |                  |                |
| D                          | SAFETY "OFF" FORCE       |                  |                |
| E                          | FIRING PIN INDENT        |                  |                |
| 640                        | TARGET                   | 9-8-00           | RW             |
| 655                        | FINAL INSPECT            | 9-12-00          | RW             |
| 660                        | PACK                     |                  |                |
|                            |                          | <b>SHIP DATE</b> |                |
| <b>QAR INSPECTION DATE</b> |                          |                  |                |

**GFM**

CONTRACT # DAAA21-87-C-0086

Repair

GUN SERIAL # C6587678

| OP. #        | OP. NAME                                                       | READINGS | DATE    | INIT |
|--------------|----------------------------------------------------------------|----------|---------|------|
| 575 &<br>580 | Assemble Action<br>and Stock                                   |          |         |      |
| 600          | Proof                                                          |          |         |      |
| 607          | Check Headspace                                                |          |         |      |
| 610          | Dis-assemble Gun                                               |          |         |      |
| 612          | Magnaflux Barrel<br>Action                                     |          |         |      |
|              | Magnaflux Bolt                                                 |          |         |      |
| 615          | Rollmark Caliber                                               |          |         |      |
| 617          | Drill and Tap Sight Holes                                      |          |         |      |
| 618          | Polish Barrel                                                  |          |         |      |
| 620          | Apply Coatings<br>(Barrel Action)                              |          |         |      |
|              | Apply Coating (Bolt)                                           |          |         |      |
| 625          | Final Assembly<br>A) Clean inside of<br>Bolt Assembly          |          | 2/16/93 | RW   |
|              | B) Inspect Rear Firing<br>Pin Hole for Chamfer<br>in Bolt Head |          | 2/16/93 | RW   |
|              | C) Inspect Ejector Hole<br>for Chamfer                         |          | 2/16/93 | RW   |
|              | D) Oil Firing Pin Ass'y                                        |          | 2/16/93 | RW   |
|              | E) Adjust Trigger Pull to<br>Min Setting and Stake             |          | 2/16/93 | RW   |

| op. #        | OP. NAME                                                    | READINGS |      |      |      |      | DATE    | INIT |
|--------------|-------------------------------------------------------------|----------|------|------|------|------|---------|------|
| 625<br>cont. | F) Safety On Force                                          | 4        | 4    | 4    |      |      | 2/16/93 | RW   |
|              | G) Safety Off Force                                         | 2.5      | 2.5  | 2    |      |      | 2/16/93 | RW   |
|              | H) Trigger Pull Test & Retainability                        |          |      |      |      |      | 2/16/93 | RW   |
|              | 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                                    |          |      |      |      |      | 2/16/93 | RW   |
|              | P) Detach & Attach Scope 20 Times                           |          |      |      |      |      |         |      |
| 640          | Gallery Target & Test                                       |          |      |      |      |      |         |      |
|              | A) Time                                                     |          |      |      |      |      |         |      |
|              | B) Malfunctions                                             |          |      |      |      |      |         |      |
|              | C) Pierced Primers                                          |          |      |      |      |      |         |      |
|              | D) Optical Clarity of Scope                                 |          |      |      |      |      |         |      |
| 645          | Inspect for Live Ammo                                       |          |      |      |      |      | 3/1/93  | RW   |
| 655          | Final Inspection                                            |          |      |      |      |      |         |      |
|              | A) Headspace                                                |          |      |      |      |      | 3/1/93  | RW   |
|              | B) Trigger Pull                                             | 2.38     | 2.36 | 2.28 | 2.31 | 2.21 | 3/1/93  | RW   |
|              | C) Function                                                 |          |      |      |      |      | 3/1/93  | RW   |
| 660          | Pack                                                        |          |      |      |      |      |         |      |

## SWS TRIGGER PULL TEST

New Trigger Assy.

AVERAGE PULL FORCE BETWEEN  
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO. C6587678

DATE 2/16/93

TESTER RW

|         | 2.50#<br>INITIAL | 2.50# AFTER<br>50 CYCLES | FINAL TEST &<br>TO RESET 2.50# | COMMENTS                                                               |
|---------|------------------|--------------------------|--------------------------------|------------------------------------------------------------------------|
| PULL #1 | 2.50             | 2.42                     | 2.63                           | MIN. SETTING,<br>NO AVG. OF 5<br>READINGS ACCEPT-<br>ABLE LESS THAN 2# |
| PULL #2 | 2.47             | 2.53                     | 2.62                           |                                                                        |
| PULL #3 | 2.38             | 2.59                     | 2.58                           |                                                                        |
| PULL #4 | 2.38             | 2.58                     | 2.59                           |                                                                        |
| PULL #5 | 2.47             | 2.48                     | 2.60                           |                                                                        |
| TOTAL   | 12.20            | 12.60                    | 13.02                          |                                                                        |
| AVG.    | 2.44             | 2.52                     | 2.60                           |                                                                        |

|         | 3.00#<br>INITIAL | 3.00# AFTER<br>20 CYCLES | COMMENTS |
|---------|------------------|--------------------------|----------|
| PULL #1 | 3.13             | 3.23                     |          |
| PULL #2 | 3.10             | 3.04                     |          |
| PULL #3 | 3.05             | 3.14                     |          |
| PULL #4 | 3.06             | 3.15                     |          |
| PULL #5 | 3.14             | 3.14                     |          |
| TOTAL   | 15.48            | 15.70                    |          |
| AVG.    | 3.10             | 3.14                     |          |

|         | 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 | 4.03             | 4.32                     |                                | 4.34                                 |
| PULL #2 | 4.24             | 4.21                     |                                | 4.35                                 |
| PULL #3 | 4.18             | 4.16                     |                                | 4.36                                 |
| PULL #4 | 4.17             | 4.12                     |                                | 4.32                                 |
| PULL #5 | 4.17             | 4.05                     |                                | 4.29                                 |
| TOTAL   | 20.79            | 20.80                    |                                | 21.66                                |
| AVG.    | 4.16             | 4.16                     |                                | 4.33                                 |

## RECEIVING AND ESTIMATING REPORT

COMMENTS

ORDER

R 93-02473

INITIAL CUSTOMER ORDER NO.

WOG 21 OF 30 W/10X SCOPE &amp; DEPLOYMENT KIT

FPS

M24

DATE RECEIVED

DATE OPENED

DATE CODE

SERIAL NUMBER

NEW SERIAL NUMBER

MODEL AND GRADE

01/25/93

01/25/93

EK 10-90

C6587678

700 7-62

NATO

ACCESSORIES

W/STUDS

W/SWIVELS

SOFT CASE

SCOPE BASE

FROM:

SHIP TO:

MCHALE, EDWARD J CPT,SF  
HSC 3RD BN 3RD SFG (A)  
FT BRAGG

NC 28307

MCHALE, EDWARD J CPT,SF  
HSC 3RD BN 3RD SFG (A)  
FT BRAGG

NC

28307

CUST NO:073985 C.O.D L

ACCOUNT NUMBER

ACCOUNT NUMBER N/C

WRITE ☐

CLEAN/TEST

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

A1

B1

TRIGGER GROUP

B2

E1

F1

BOLT ASSY.

B3

E2

F2

BARREL ASSY.

B4

D1

E3

F3

REC. ASSY.

B5

D2

E4

F4

WOOD

C1

D3

E5

F5

METAL

C2

MAIN FAULT

PARTS

COMMENTS

REPAIRMAN

PROOF

CLEAN

TEST

TARGET

PATTERN

GALLERY TESTER

DATE

DATE

DATE

DATE

DATE

RD6925 REV. 1/92

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER  
KINZER V. REMINGTON

M2400025135

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



**Remington®**

MODEL 700™ H24

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

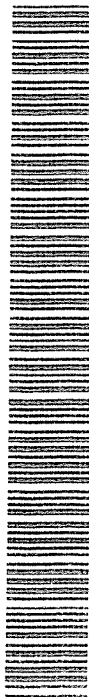
01

SERIAL NO.

C6587678

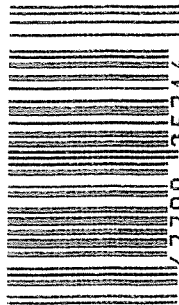
ORDER NO.

5716



5716 C6587678

UPC



0 47700 25716 7

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C 6587678

| OP. #     | OP. NAME                                                 | READINGS | DATE     | INIT |
|-----------|----------------------------------------------------------|----------|----------|------|
| 575 & 580 | Assemble Action and Stock                                |          | 10/15/90 | LS   |
| 600       | Proof                                                    |          | 10/18/90 | LS   |
| 607       | Check Headspace                                          |          | 10/18/90 | LS   |
| 610       | Dis-assemble Gun                                         |          | 10/18/90 | LS   |
| 612       | Magnaflux Barrel Action                                  |          | 10/22/90 | KR   |
|           | Magnaflux Bolt                                           |          | 10/22/90 | KR   |
| 615       | Rollmark Caliber                                         |          | 10/22/90 | LS   |
| 617       | Drill and Tap Sight Holes                                |          | 10/23/90 | LB   |
| 618       | Polish Barrel AB                                         |          | 10/24/90 | LB   |
| 620       | Apply Coatings (Barrel Action)                           |          | 11-7-90  | LS   |
|           | Apply Coating (Bolt)                                     |          |          |      |
| 625       | Final Assembly                                           |          | 11/7/90  | KS   |
|           | A) Clean inside of Bolt Assembly                         |          | 11/7/90  | KS   |
|           | B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head |          | 11/7/90  | KS   |
|           | C) Inspect Ejector Hole for Chamfer                      |          | 11/7/90  | KS   |
|           | D) Oil Firing Pin Ass'y                                  |          | 11/7/90  | KS   |
|           | E) Adjust Trigger Pull to Min Setting and Stake          |          | 11/23/90 | JS   |

| op. #        | OP. NAME                                                    | READINGS |       |       |      |         | DATE                | INIT |
|--------------|-------------------------------------------------------------|----------|-------|-------|------|---------|---------------------|------|
| 625<br>cont. | F) Safety On Force                                          | 6        | 6     | 6     |      |         | 11/28/90            | WB   |
|              | G) Safety Off Force                                         | 2 1/2    | 2 1/2 | 2 1/2 |      |         | 11/28/90            | WB   |
|              | H) Trigger Pull Test & Retainability                        |          |       |       |      |         | 11/28/90            | WB   |
|              | I) Firing Pin Indent                                        | .0205    | .020  | .0202 |      |         | 11/28/90            | WB   |
|              | J) Assemble Stock                                           |          |       |       |      | 12/1/90 | <del>11/28/90</del> | KS   |
|              | K) Assemble Swivel Studs                                    |          |       |       |      |         | 12/4/90             | KS   |
|              | L) Attach Front and Rear Sight Assemblies                   |          |       |       |      | 12/1/90 | <del>11/28/90</del> | KS   |
|              | M) Iron Sight Alignment                                     |          |       |       |      |         | 12/1/90             | KS   |
|              | N) Detach Front & Rear Sights & place in numbered container |          |       |       |      |         | 12/1/90             | KS   |
|              | O) Attach Scope to Rifle                                    |          |       |       |      |         | 12/1/90             | KS   |
|              | P) Detach & Attach Scope 20 Times                           |          |       |       |      |         | 12/1/90             | KS   |
| 640          | Gallery Target & Test                                       |          |       |       |      |         | 12/1/90             | KS   |
|              | A) Time                                                     |          |       |       |      |         |                     | KS   |
|              | B) Malfunctions                                             |          |       |       |      |         |                     | KS   |
|              | C) Pierced Primers                                          |          |       |       |      |         |                     | KS   |
|              | D) Optical Clarity of Scope                                 |          |       |       |      |         |                     | KS   |
| 645          | Inspect for Live Ammo                                       |          |       |       |      |         | 12/1/90             | KS   |
| 655          | Final Inspection                                            |          |       |       |      |         |                     |      |
|              | A) Headspace                                                |          |       |       |      |         | 12-4-90             | KS   |
|              | B) Trigger Pull                                             | 2.30     | 2.39  | 2.30  | 2.31 | 2.30    | 12-4-90             | KS   |
|              | C) Function                                                 |          |       |       |      |         | 12-4-90             | KS   |
| 660          | Pack                                                        |          |       |       |      |         | 12/19/90            | KS   |

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN  
INITIAL & CYCLE TESTS  
2.50# ± .50#  
3.00# ± .75#  
4.00# ± 1.00#

SERIAL NO. C 6587678  
DATE 11-28/90  
TESTER JR

|         | 2.50#<br>INITIAL | 2.50# AFTER<br>50 CYCLES | FINAL TEST &<br>TO RESET 2.50# |      | COMMENTS                                                               |
|---------|------------------|--------------------------|--------------------------------|------|------------------------------------------------------------------------|
| PULL #1 | 2.48             | 2.33                     | 2.41                           | 2.30 | MIN. SETTING,<br>NO AVG. OF 5<br>READINGS ACCEPT-<br>ABLE LESS THAN 2# |
| PULL #2 | 2.50             | 2.38                     | 2.41                           | 2.39 |                                                                        |
| PULL #3 | 2.39             | 2.42                     | 2.42                           | 2.30 |                                                                        |
| PULL #4 | 2.48             | 2.35                     | 2.33                           | 2.31 |                                                                        |
| PULL #5 | 2.44             | 2.43                     | 2.44                           | 2.30 |                                                                        |
| TOTAL   |                  |                          |                                |      |                                                                        |
| AVG.    |                  |                          |                                |      |                                                                        |

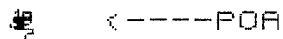
|         | 3.00#<br>INITIAL | 3.00# AFTER<br>20 CYCLES |  | COMMENTS |
|---------|------------------|--------------------------|--|----------|
| PULL #1 | 3.36             | 3.31                     |  |          |
| PULL #2 | 3.25             | 3.44                     |  |          |
| PULL #3 | 3.44             | 3.40                     |  |          |
| PULL #4 | 3.13             | 3.33                     |  |          |
| PULL #5 | 3.41             | 3.40                     |  |          |
| TOTAL   |                  |                          |  |          |
| AVG.    |                  |                          |  |          |

|         | 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 | 4.26             | 4.35                     |                                | 4.31                                 |
| PULL #2 | 4.37             | 4.33                     |                                | 4.13                                 |
| PULL #3 | 4.16             | 4.37                     |                                | 4.15                                 |
| PULL #4 | 4.35             | 4.13                     |                                | 4.27                                 |
| PULL #5 | 4.15             | 4.34                     |                                | 4.33                                 |
| TOTAL   |                  |                          |                                |                                      |
| AVG.    |                  |                          |                                |                                      |

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # C6587678  
4 Dec 1990

CENTROIDAL DISTANCES

|      |   |         |
|------|---|---------|
| 0 TO | 1 | .137208 |
| 1 TO | 2 | .414541 |
| 1 TO | 3 | .181687 |
| 1 TO | 4 | .153834 |
| 1 TO | 5 | .13222  |

 <----POA

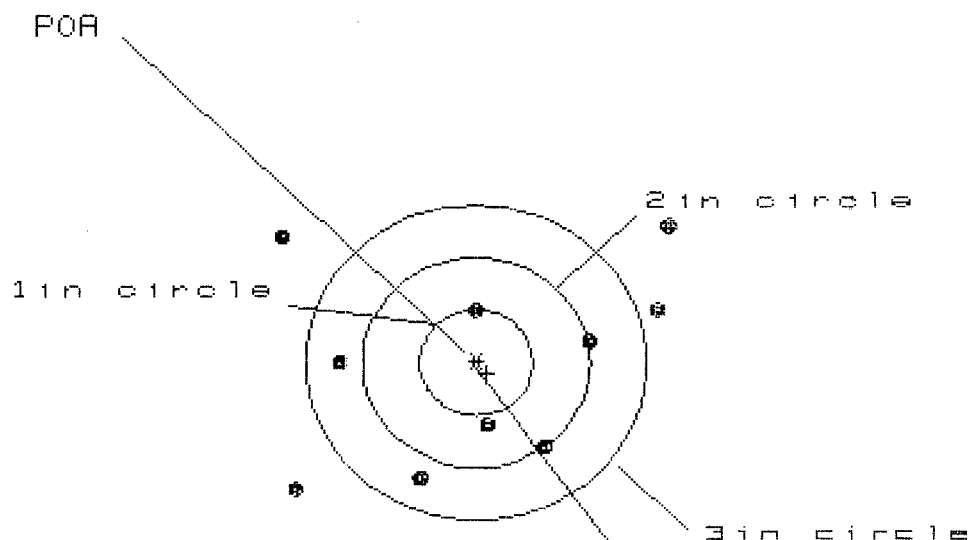
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.009  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0332  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0343903

THE AMP FOR THIS RIFLE IS: 1.16

4 Dec 1998

FILE:/PATTERNING/CENTERFIRE\_PATT/C6587678

# CENTERFIRE PATTERNS # 1



# OF SHOTS- 10

# IN CIR

1in - 1

2in - 3

3in = 6

HS= 3.380

VS= 2.498

GS= 4.168

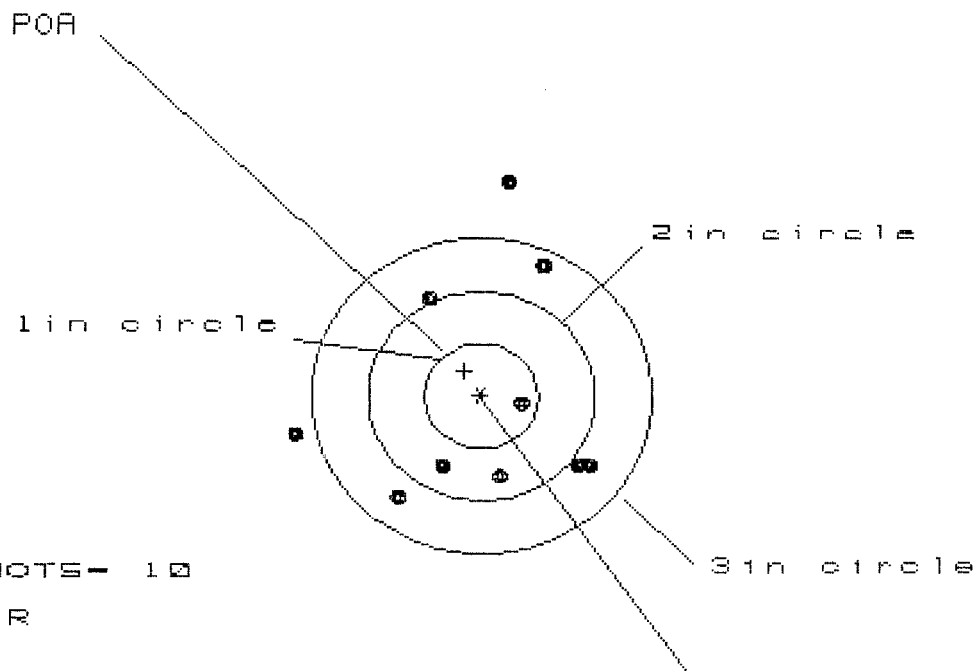
CENTROID #

|                             |   |        |        |        |
|-----------------------------|---|--------|--------|--------|
| PATTERN #                   | : | 1      |        |        |
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 1.718  | 1.783  | 1.599  |
| MINIMUM X                   | : | -1.662 | -1.472 | -1.612 |
| MAXIMUM Y                   | : | 1.320  | 1.313  | .783   |
| MINIMUM Y                   | : | -1.178 | -1.032 | -.868  |
| CENTROID X                  | : | -.095  | -.285  | -.101  |
| CENTROID Y                  | : | .099   | -.047  | -.211  |
| POA TO CENTROID in.         | : | .137   | .289   | .234   |
| MIN RADIUS                  | : | .473   | .521   | .303   |
| MEAN RADIUS                 | : | 1.335  | 1.228  | 1.094  |
| MAX RADIUS                  | : | 2.166  | 1.972  | 1.830  |
| HORIZONTAL SPREAD           | : | 3.380  | 3.255  | 3.211  |
| VERTICAL SPREAD             | : | 2.498  | 2.345  | 1.651  |
| EXTREME SPREAD              | : | 4.168  | 3.608  | 3.608  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 1      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 3      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 6      |        |

4 Dec 1998

FILE:/PATTERNING/CENTERFIRE\_PATT/C6587678

# CENTERFIRE PATTERNS # 2



# OF SHOTS- 10

# IN CIR

1 in - 1

2 in - 3

3 in - 8

HS- 2.595

VS= 3.063

GS= 3.221

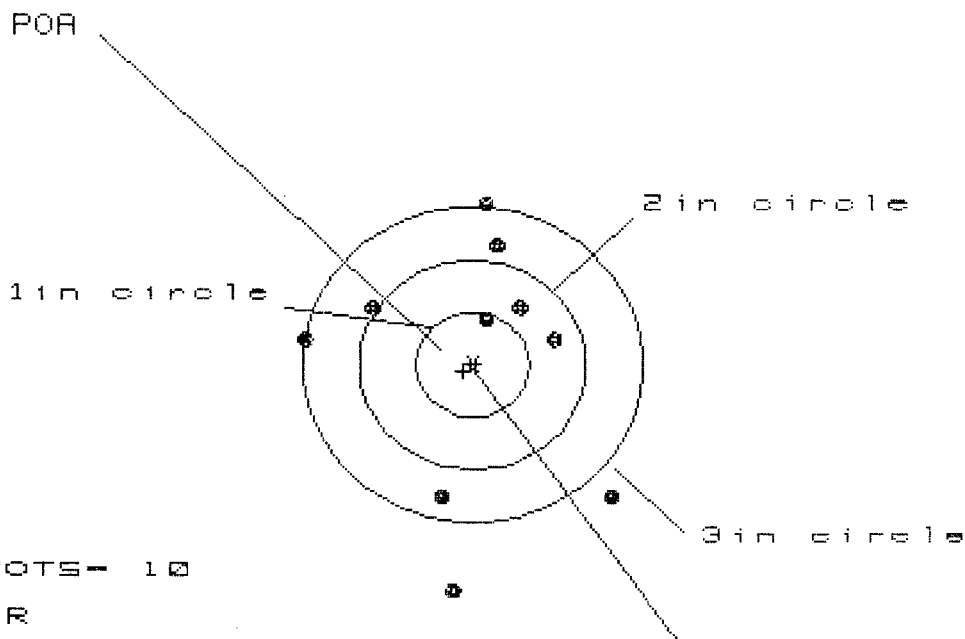
CENTROID #

| PATTERN #                   | : | 2      |        |       |
|-----------------------------|---|--------|--------|-------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8     |
| MAXIMUM X                   | : | .953   | .980   | .778  |
| MINIMUM X                   | : | -1.642 | -1.615 | -.929 |
| MAXIMUM Y                   | : | 2.067  | 1.431  | 1.415 |
| MINIMUM Y                   | : | -.996  | -.766  | -.782 |
| CENTROID X                  | : | .145   | .118   | .320  |
| CENTROID Y                  | : | -.239  | -.469  | -.453 |
| POA TO CENTROID in.         | : | .280   | .484   | .555  |
| MIN RADIUS                  | : | .401   | .434   | .240  |
| MEAN RADIUS                 | : | 1.149  | .999   | .887  |
| MAX RADIUS                  | : | 2.081  | 1.621  | 1.466 |
| HORIZONTAL SPREAD           | : | 2.595  | 2.595  | 1.707 |
| VERTICAL SPREAD             | : | 3.063  | 2.197  | 2.197 |
| EXTREME SPREAD              | : | 3.221  | 2.699  | 2.560 |
| NUMBER IN ONE INCH CIRCLE   | = |        | 1      |       |
| NUMBER IN TWO INCH CIRCLE   | = |        | 3      |       |
| NUMBER IN THREE INCH CIRCLE | = |        | 8      |       |

4 Dec 1998

FILE:/PATTERNING/CENTERFIRE\_PATT/C8587678

# CENTERFIRE PATTERNS # 3



# OF SHOTS - 10

# IN CIR

1in = 1

2in = 3

3in = 6

HS = 2.686

VS = 3.713

GS = 3.730

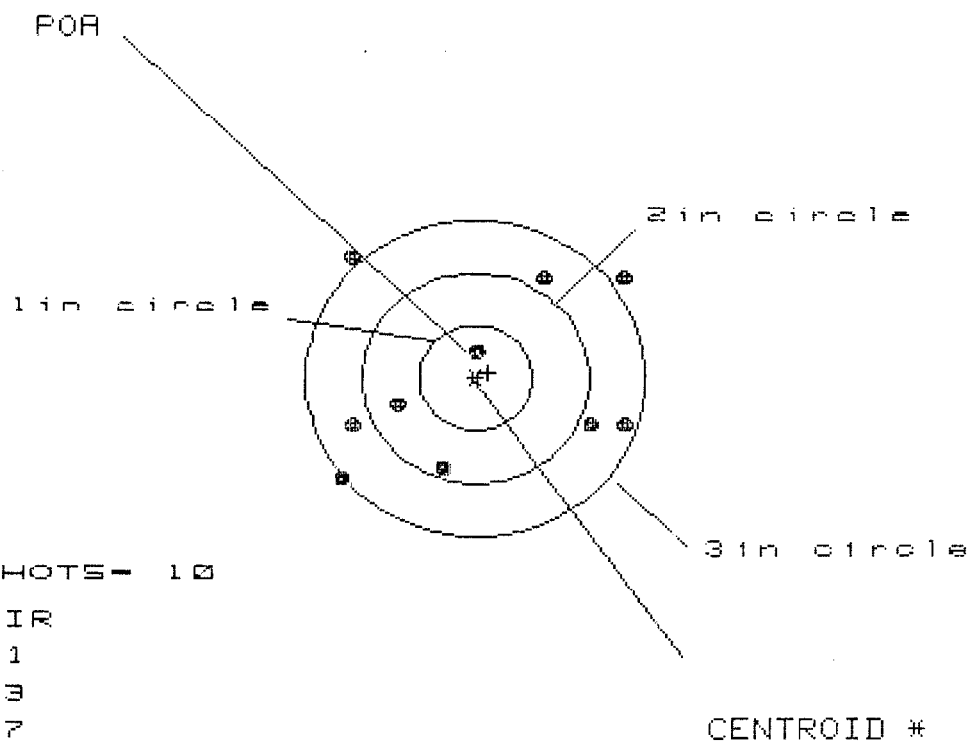
CENTROID #

|                             |   |        |        |        |
|-----------------------------|---|--------|--------|--------|
| PATTERN #                   | : | 3      |        |        |
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 1.176  | 1.153  | .798   |
| MINIMUM X                   | : | -1.510 | -1.533 | -1.389 |
| MAXIMUM Y                   | : | 1.518  | 1.274  | 1.093  |
| MINIMUM Y                   | : | -2.195 | -1.543 | -1.724 |
| CENTROID X                  | : | .082   | .105   | -.039  |
| CENTROID Y                  | : | .058   | .302   | .483   |
| POA TO CENTROID in.         | : | .100   | .319   | .485   |
| MIN RADIUS                  | : | .497   | .266   | .288   |
| MEAN RADIUS                 | : | 1.244  | 1.068  | .948   |
| MAX RADIUS                  | : | 2.205  | 1.855  | 1.730  |
| HORIZONTAL SPREAD           | : | 2.686  | 2.686  | 2.187  |
| VERTICAL SPREAD             | : | 3.713  | 2.817  | 2.817  |
| EXTREME SPREAD              | : | 3.730  | 3.065  | 2.846  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 1      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 3      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 6      |        |

4 Dec 1998

FILE:/PATTERNING/CENTERFIRE\_PATT/C6587678

# CENTERFIRE PATTERNS # 4



# OF SHOTS - 10

# IN CIR

1 in - 1

2 in - 3

3 in = 7

HS= 2.519

VS= 2.139

GS= 3.157

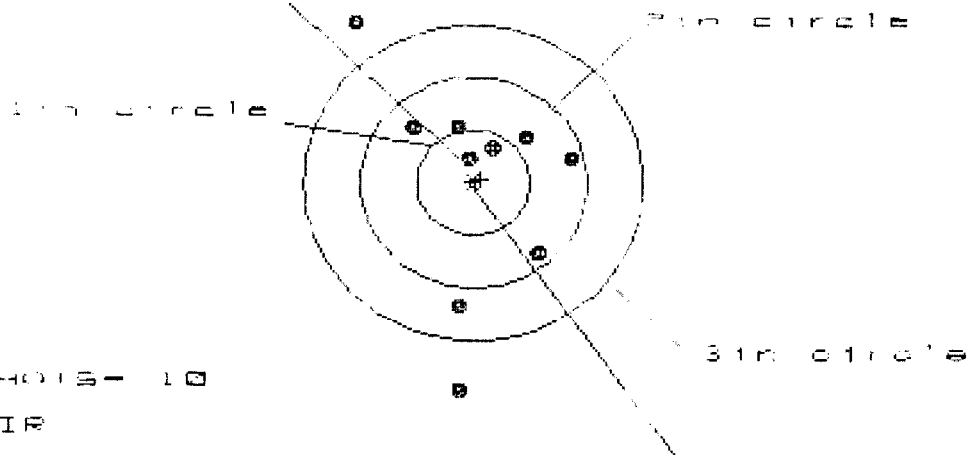
| PATTERN #                   | : | 4      |        |        |
|-----------------------------|---|--------|--------|--------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 1.309  | 1.442  | 1.328  |
| MINIMUM X                   | : | -1.210 | -1.064 | -1.178 |
| MAXIMUM Y                   | : | 1.162  | 1.265  | 1.244  |
| MINIMUM Y                   | : | -.977  | -.874  | -.716  |
| CENTROID X                  | : | -.111  | -.257  | -.143  |
| CENTROID Y                  | : | -.054  | -.157  | -.315  |
| POA TO CENTROID in.         | : | .124   | .301   | .346   |
| MIN RADIUS                  | : | .223   | .377   | .484   |
| MEAN RADIUS                 | : | 1.138  | 1.072  | 1.005  |
| MAX RADIUS                  | : | 1.604  | 1.561  | 1.419  |
| HORIZONTAL SPREAD           | : | 2.519  | 2.506  | 2.506  |
| VERTICAL SPREAD             | : | 2.139  | 2.139  | 1.960  |
| EXTREME SPREAD              | : | 3.157  | 2.847  | 2.703  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 1      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 3      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 7      |        |

4 Dec 1998

FILE:/PATTERNING/CENTERFIRE\_PATT 08582673

# CENTERFIRE PATTERNS # 5

PCR



+ OF SHOTS- 10

# IN CIR

1in = 2

2in = 7

3in = 8

RS= 1.211

VS= 3.588

SS= 2.631

CENTROID \*

|                             |   |        |        |        |
|-----------------------------|---|--------|--------|--------|
| PATTERN #                   | : | 5      |        |        |
| SHOTS (EPT OF)              | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | .863   | .850   | .718   |
| MINIMUM X                   | : | -1.048 | -1.061 | -1.714 |
| MAXIMUM Y                   | : | 1.544  | 1.326  | .530   |
| MINIMUM Y                   | : | -1.964 | -1.400 | 1.234  |
| CENTROID X                  | : | -.066  | -.054  | .078   |
| CENTROID Y                  | : | -.030  | .183   | .022   |
| PCR TO CENTROID in.         | : | .073   | .196   | .001   |
| MIN RADIUS                  | : | .253   | .073   | .046   |
| MEAN RADIUS                 | : | .933   | .749   | .659   |
| MAX RADIUS                  | : | 1.967  | 1.698  | 1.259  |
| HORIZONTAL SPREAD           | : | 1.911  | 1.911  | 1.432  |
| VERTICAL SPREAD             | : | 3.508  | 2.726  | 1.737  |
| EXTREME SPREAD              | : | 3.631  | 2.885  | 1.798  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 2      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 7      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 8      |        |

