

C6611391

MODEL 700<sup>TM</sup> M24

Model **SMS**<sup>TM</sup>

Action

Barrel Length

Capacity

Order No. **5716**

\*Includes 1 in chamber.

*Remington*

# RECEIVING AND ESTIMATING REPORT

COMMENTS

35 ELICUT LEFT

ORDER  
R 94-18747

INITIAL  
JJM

CUSTOMER ORDER NO.  
DAAA09-92-C-0834

W/10X SCOPE M-24 SNIPER W/DEPLOYMENT KIT  
ATTN FRED MARTIN *SCOPE 90-0231*

|                           |                         |            |                           |                   |                             |             |
|---------------------------|-------------------------|------------|---------------------------|-------------------|-----------------------------|-------------|
| DATE RECEIVED<br>06/14/94 | DATE OPENED<br>06/15/94 | DATE CODE  | SERIAL NUMBER<br>C6611391 | NEW SERIAL NUMBER | MODEL AND GRADE<br>700 7.62 | NATO        |
| ACCESSORIES<br>HARD CASE  |                         | SCOPE MNTS |                           | SCOPE BASE        |                             | SLING STRAP |

FROM:

SHIP TO:

COMMANDER (W52H094138H226)  
DEFENSE DIST DEPOT ANNISTON  
ATTN DDAA-UR BLDG 112  
ANNISTON

AL 36201-5025

COMMANDER (W52H094138H226)  
DEFENSE DIST DEPOT ANNISTON  
ATTN DDAA-UR BLDG 112  
ANNISTON

AL  
36201-5025

CUST NO: 098397 C.B.D.L

|                                                                                                                                                                                                                                           |                    |                                |                                                                            |           |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------|----------------------------------------------------------------------------|-----------|------------|
| ACCOUNT NUMBER                                                                                                                                                                                                                            | ACCOUNT NUMBER N/C | WRITE <input type="checkbox"/> | PROM. DATE                                                                 | ESTIMATED | VIA<br>UPS |
| GUN CONDITION<br><input type="checkbox"/> NEW<br><input type="checkbox"/> LIGHTLY WORN<br><input type="checkbox"/> WORN<br><input type="checkbox"/> VERY WORN<br><input type="checkbox"/> UNREPAIRABLE<br><input type="checkbox"/> MARRED |                    |                                | REPAIR CHARGE<br>EXCISE<br>TAX<br>INSURANCE<br>UPS<br>PARCEL POST<br>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

*New Barrel*

*Trigger Assy  
Front & Rear Sight Assy*

|                |       |       |                        |                        |         |
|----------------|-------|-------|------------------------|------------------------|---------|
| REPAIRMAN      | PROOF | CLEAN | TEST<br><i>A</i>       | TARGET<br><i>A</i>     | PATTERN |
| GALLERY TESTER | DATE  | DATE  | DATE<br><i>4/11/96</i> | DATE<br><i>4/11/96</i> | DATE    |

OFFICE COPY

RD6925 REV. 1/94

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER  
KINZER V. REMINGTON

M2400076073

SWS TRIGGER PULL TEST

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

SERIAL NO. C6611391

DATE 3/22/96

TESTER SF

|         | 2.50#<br>INITIAL | 2.50# AFTER<br>50 CYCLES | FINAL TEST &<br>TO RESET 2.50# |       | COMMENTS                                                               |
|---------|------------------|--------------------------|--------------------------------|-------|------------------------------------------------------------------------|
| PULL #1 | 2.61             | 2.59                     |                                | 2.83  | MIN. SETTING,<br>NO AVG. OF 5<br>READINGS ACCEPT-<br>ABLE LESS THAN 2# |
| PULL #2 | 2.66             | 2.81                     |                                | 2.76  |                                                                        |
| PULL #3 | 2.72             | 2.65                     |                                | 2.86  |                                                                        |
| PULL #4 | 2.53             | 2.51                     |                                | 2.64  |                                                                        |
| PULL #5 | 2.58             | 2.85                     |                                | 2.70  |                                                                        |
| TOTAL   | 13.1             | 13.41                    |                                | 13.79 |                                                                        |
| AVG.    | 2.62             | 2.682                    |                                | 2.758 |                                                                        |

|         | 3.00#<br>INITIAL | 3.00# AFTER<br>20 CYCLES |  | COMMENTS |
|---------|------------------|--------------------------|--|----------|
| PULL #1 | 2.99             | 3.19                     |  |          |
| PULL #2 | 2.95             | 3.16                     |  |          |
| PULL #3 | 3.02             | 3.10                     |  |          |
| PULL #4 | 3.05             | 3.11                     |  |          |
| PULL #5 | 2.99             | 3.16                     |  |          |
| TOTAL   | 15               | 15.72                    |  |          |
| AVG.    | 3                | 3.144                    |  |          |

|         | 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 | 3.91             | 4.41                     |                                | 4.26                                 |
| PULL #2 | 3.98             | 4.32                     |                                | 4.25                                 |
| PULL #3 | 4.36             | 4.43                     |                                | 4.21                                 |
| PULL #4 | 4.42             | 4.36                     |                                | 4.30                                 |
| PULL #5 | 4.46             | 4.46                     |                                | 4.30                                 |
| TOTAL   | 21.13            | 21.98                    |                                | 21.32                                |
| AVG.    | 4.226            | 4.396                    |                                | 4.264                                |

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # C6611391  
11 Feb 1980

CENTROIDAL DISTANCES

|   |   |   |         |
|---|---|---|---------|
| 0 | + |   | .298204 |
| 1 |   | . | .43628  |
| 1 |   | 2 | .4043   |
| . |   |   | .58089  |
| 1 | 1 | 3 | .243393 |

SP  
+ 2 (----POA

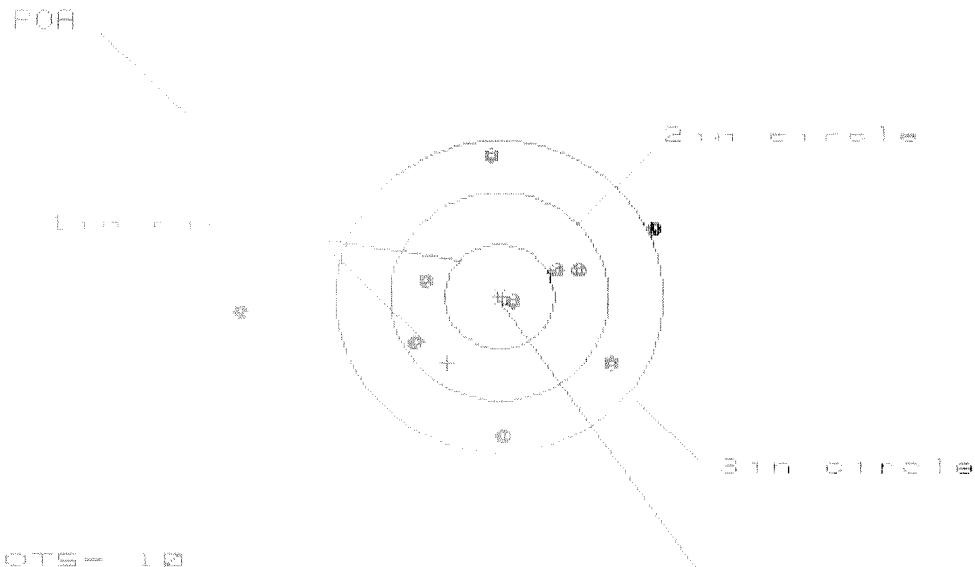
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .4002  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .5808  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .705329

THE AMR FOR THIS RIFLE IS: 1.008

11 Feb 1988

FILE:/PATTERNING/CENTERFIRE\_PATT/C6611391

# CENTERFIRE PATTERNS # 1



# OF SHOTS- 10

# IN CIR

1in = 1

2in = 5

3in = 8

HS= 3.856

VS= 2.676

GS= 3.931

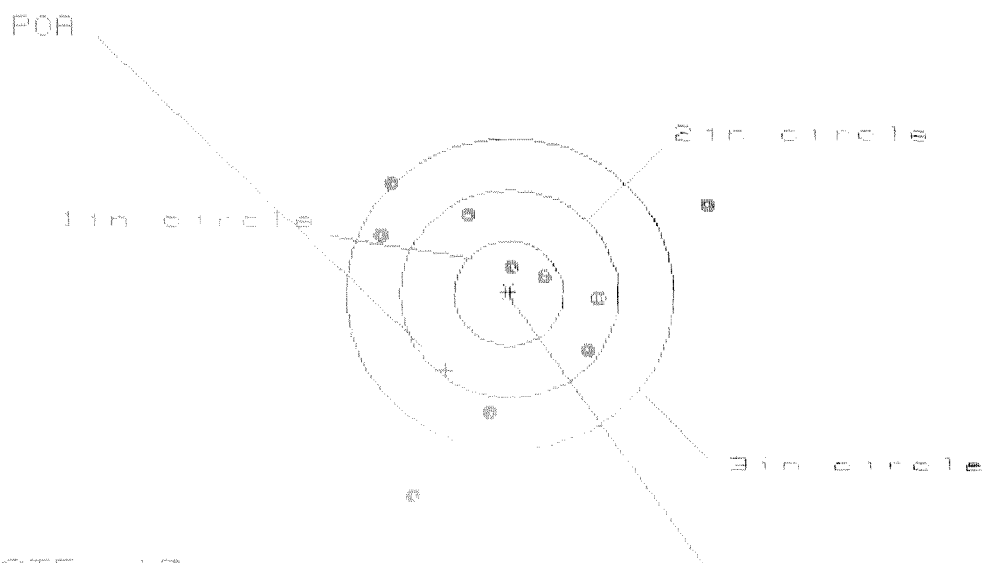
CENTROID +

| PATTERN #                     | 1      | 2      | 3      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | 1.478  | 1.285  | .874   |
| MINIMUM X                     | -2.386 | -.996  | -.846  |
| MAXIMUM Y                     | 1.314  | 1.298  | 1.374  |
| MINIMUM Y                     | -1.362 | -1.378 | -1.362 |
| CENTROID X                    | .477   | .742   | .592   |
| CENTROID Y                    | .648   | .656   | .588   |
| POA TO CENTROID in.           | .798   | .998   | .828   |
| MIN RADIUS                    | .167   | .189   | .061   |
| MEAN RADIUS                   | 1.094  | .902   | .847   |
| MAX RADIUS                    | 2.390  | 1.486  | 1.382  |
| HORIZONTAL SPREAD             | 3.856  | 2.261  | 1.719  |
| VERTICAL SPREAD               | 2.676  | 2.676  | 2.676  |
| EXTREME SPREAD                | 3.931  | 2.676  | 2.676  |
| NUMBER IN ONE INCH CIRCLE =   | 1      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 5      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 8      |        |        |

11 Feb 1968

FILE:/PATTERNING/CENTERFIRE\_PATT/C8811391

# CENTERFIRE PATTERNS # 2



# OF SHOTS- 10

# IN CIR

1 in = 2

2 in = 5

3 in = 8

HS= 2.946

VS= 2.956

GS= 3.891

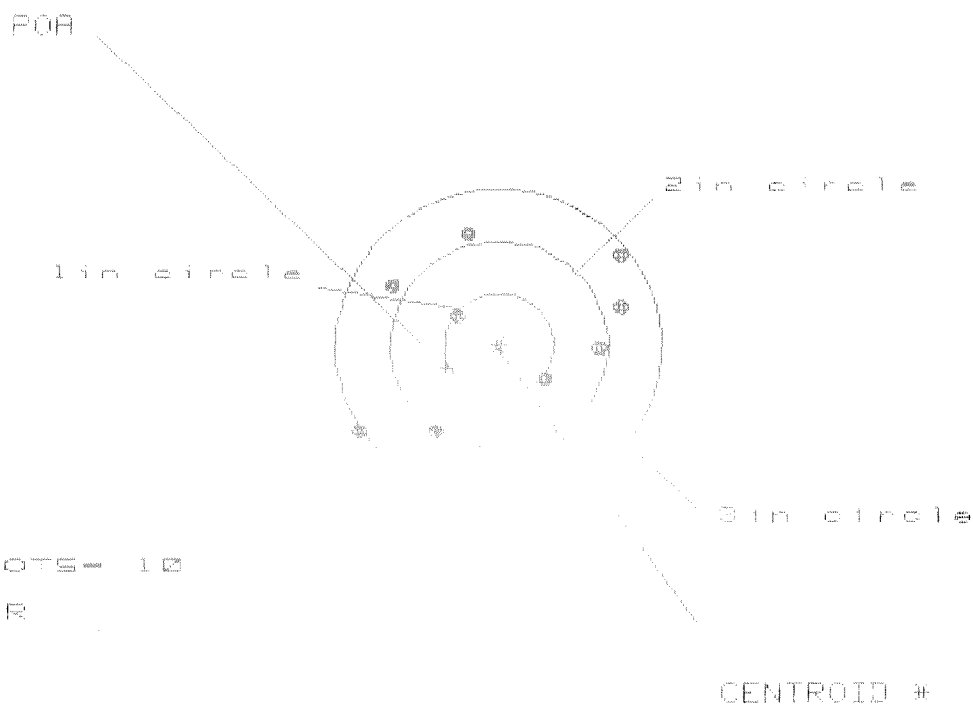
CENTROID #

|                             |   |        |        |        |
|-----------------------------|---|--------|--------|--------|
| PATTERN #                   | : | 2      |        |        |
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 1.800  | 1.698  | .945   |
| MINIMUM X                   | : | -1.146 | -1.248 | -1.036 |
| MAXIMUM Y                   | : | 1.020  | .805   | .883   |
| MINIMUM Y                   | : | -1.936 | -1.346 | -1.268 |
| CENTROID X                  | : | .582   | .684   | .472   |
| CENTROID Y                  | : | .738   | .953   | .875   |
| POA TO CENTROID in.         | : | .940   | 1.173  | .994   |
| MIN RADIUS                  | : | .304   | .090   | .238   |
| MEAN RADIUS                 | : | 1.131  | .970   | .887   |
| MAX RADIUS                  | : | 2.145  | 1.810  | 1.317  |
| HORIZONTAL SPREAD           | : | 2.946  | 2.946  | 1.981  |
| VERTICAL SPREAD             | : | 2.956  | 2.151  | 2.151  |
| EXTREME SPREAD              | : | 3.891  | 2.959  | 2.405  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 2      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 5      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 8      |        |

11 Feb 1988

FILE:/PATTERNING/CENTERFIRE\_PATT/C8811391

# CENTERFIRE PATTERNS # 3



# OF SHOTS- 10

# IN CIR

1in = 1

2in = 3

3in = 9

HS= 2.435

VS= 2.066

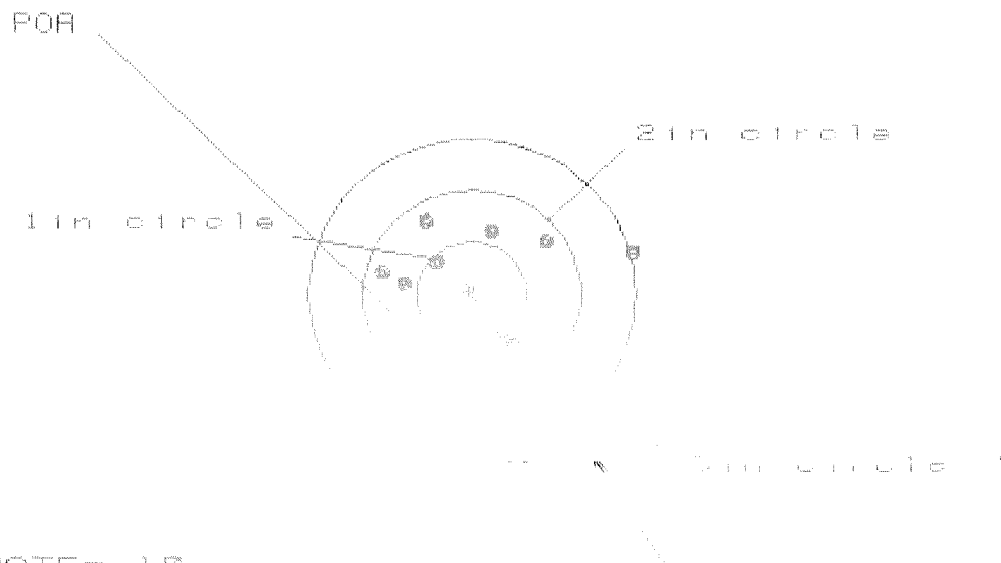
GS= 2.967

| PATTERN #                     | 1      | 2      | 3     |
|-------------------------------|--------|--------|-------|
| SHOTS (BEST OF)               | 10     | 9      | 8     |
| MAXIMUM X                     | 1.146  | 1.003  | 1.124 |
| MINIMUM X                     | -1.289 | -1.078 | -.957 |
| MAXIMUM Y                     | 1.070  | .975   | 1.073 |
| MINIMUM Y                     | -.996  | -1.091 | -.993 |
| CENTROID X                    | .483   | .626   | .505  |
| CENTROID Y                    | .221   | .316   | .218  |
| POA TO CENTROID in.           | .531   | .701   | .549  |
| MIN RADIUS                    | .469   | .513   | .489  |
| MEAN RADIUS                   | 1.028  | .963   | .913  |
| MAX RADIUS                    | 1.547  | 1.251  | 1.181 |
| HORIZONTAL SPREAD             | 2.435  | 2.081  | 2.081 |
| VERTICAL SPREAD               | 2.066  | 2.066  | 2.066 |
| EXTREME SPREAD                | 2.967  | 2.407  | 2.088 |
| NUMBER IN ONE INCH CIRCLE =   | 1      |        |       |
| NUMBER IN TWO INCH CIRCLE =   | 3      |        |       |
| NUMBER IN THREE INCH CIRCLE = | 9      |        |       |

11 Feb 1988

FILE:/PATTERNING/CENTERFIRE\_PATT/C6611391

# CENTERFIRE PATTERNS # 4



# OF SHOTS- 10

# IN CIR

1 in = 1

2 in = 8

3 in = 8

HS= 2.282

VS= 2.194

GS= 2.816

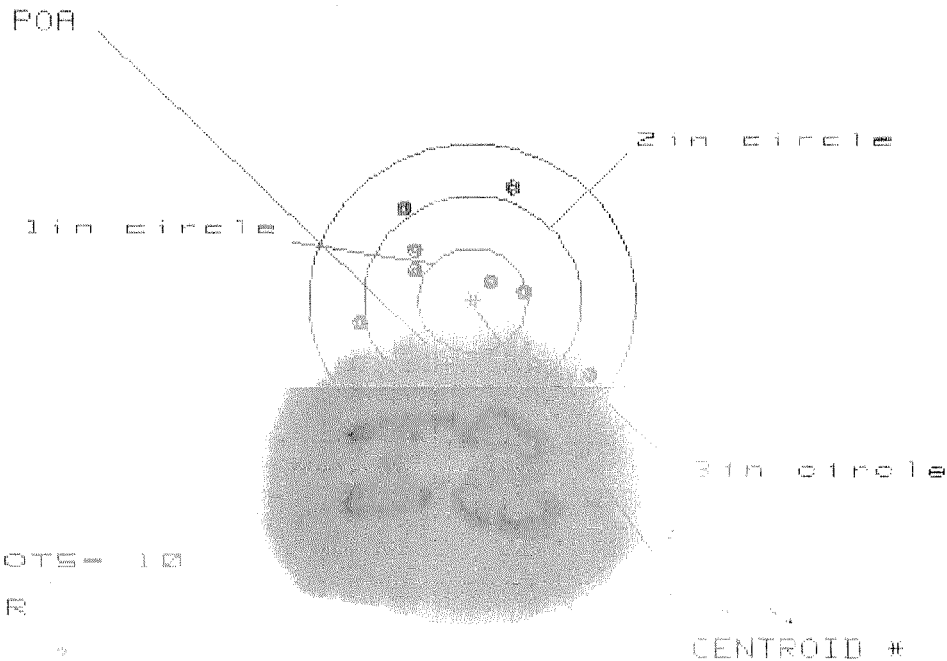
CENTROID #

|                             |   |        |        |        |
|-----------------------------|---|--------|--------|--------|
| PATTERN #                   | : | 1      | 2      | 3      |
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 1.457  | 1.391  | .773   |
| MINIMUM X                   | : | -.825  | -.891  | -.717  |
| MAXIMUM Y                   | : | .661   | .491   | .520   |
| MINIMUM Y                   | : | -1.533 | -1.069 | -1.040 |
| CENTROID X                  | : | .224   | .290   | .116   |
| CENTROID Y                  | : | .691   | .861   | .832   |
| POA TO CENTROID in.         | : | .726   | .908   | .840   |
| MIN RADIUS                  | : | .451   | .403   | .273   |
| MEAN RADIUS                 | : | .887   | .781   | .674   |
| MAX RADIUS                  | : | 1.643  | 1.410  | 1.059  |
| HORIZONTAL SPREAD           | : | 2.282  | 2.282  | 1.490  |
| VERTICAL SPREAD             | : | 2.194  | 1.560  | 1.560  |
| EXTREME SPREAD              | : | 2.816  | 2.287  | 1.640  |
| NUMBER IN ONE INCH CIRCLE   | = | 1      | 8      | 8      |
| NUMBER IN TWO INCH CIRCLE   | = | 8      | 8      | 8      |
| NUMBER IN THREE INCH CIRCLE | = | 8      | 8      | 8      |

11 Feb 1988

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# CENTERFIRE PATTERNS # 5



# OF SHOTS- 10

# IN CIR

1in = 2

2in = 5

3in = 9

HS= 2.157

VS= 2.624

GS= 2.629

|                             |   |        |        |       |
|-----------------------------|---|--------|--------|-------|
| PATTERN #                   | : | 5      |        |       |
| SHOTS (BEST OF)             | : | 10     | 9      | 8     |
| MAXIMUM X                   | : | 1.084  | 1.107  | .726  |
| MINIMUM X                   | : | -1.073 | -1.050 | -.911 |
| MAXIMUM Y                   | : | 1.065  | .892   | .781  |
| MINIMUM Y                   | : | -1.559 | -.888  | -.859 |
| CENTROID X                  | : | .235   | .212   | .073  |
| CENTROID Y                  | : | .614   | .787   | .898  |
| POA TO CENTROID in.         | : | .657   | .815   | .901  |
| MIN RADIUS                  | : | .255   | .177   | .323  |
| MEAN RADIUS                 | : | .900   | .794   | .698  |
| MAX RADIUS                  | : | 1.573  | 1.419  | 1.124 |
| HORIZONTAL SPREAD           | : | 2.157  | 2.157  | 1.637 |
| VERTICAL SPREAD             | : | 2.624  | 1.780  | 1.640 |
| EXTREME SPREAD              | : | 2.629  | 2.327  | 1.916 |
| NUMBER IN ONE INCH CIRCLE   | = |        | 2      |       |
| NUMBER IN TWO INCH CIRCLE   | = |        | 5      |       |
| NUMBER IN THREE INCH CIRCLE | = |        | 9      |       |

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # *C 6611391*

| OP. #        | OP. NAME                                                       | READINGS | DATE | INITIAL |
|--------------|----------------------------------------------------------------|----------|------|---------|
| 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          |          |      |         |
|              | B) Inspect Rear Firing<br>Pin Hole for Chamfer<br>in Bolt Head |          |      |         |
|              | C) Inspect Ejector Hole<br>for Chamfer                         |          |      |         |
|              | D) Oil Firing Pin Ass'y                                        |          |      |         |
|              | E) Adjust Trigger Pull to<br>Min Setting and Stake             |          |      |         |

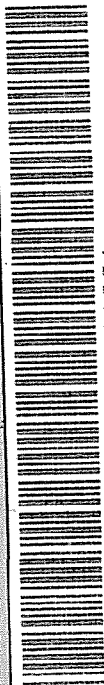
| op. #        | OP. NAME                                                    | READINGS |      |      |      |      | DATE   | INIT |
|--------------|-------------------------------------------------------------|----------|------|------|------|------|--------|------|
| 625<br>cont. | F) Safety On Force                                          | 6        | 6    | 6    |      |      | 5/4/96 | JW   |
|              | G) Safety Off Force                                         | 4        | 4    | 4    |      |      | 5/4/96 | JW   |
|              | 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                                       |          |      |      |      |      |        |      |
|              | A) Time                                                     |          |      |      |      |      |        |      |
|              | B) Malfunctions                                             |          |      |      |      |      |        |      |
|              | C) Pierced Primers                                          |          |      |      |      |      |        |      |
|              | D) Optical Clarity of Scope                                 |          |      |      |      |      |        |      |
| 645          | Inspect for Live Ammo                                       |          |      |      |      |      |        |      |
| 655          | Final Inspection                                            |          |      |      |      |      |        |      |
|              | A) Headspace                                                |          |      |      |      |      |        |      |
|              | B) Trigger Pull                                             | 2.74     | 2.77 | 2.60 | 2.75 | 2.69 |        |      |
|              | C) Function                                                 |          |      |      |      |      |        |      |
| 660          | Pack                                                        |          |      |      |      |      |        |      |

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

**MODEL 700™ H24**

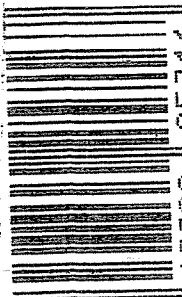
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada Marquo Deposée.

|                               |                          |
|-------------------------------|--------------------------|
| <b>SERIAL NO.</b><br>C6611391 | <b>ORDER NO.</b><br>5716 |
|-------------------------------|--------------------------|



5716 C6611391

**UPC**



0 47700 25716 7

GEM

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6611391

| OP. #     | OP. NAME                                                 | READINGS | DATE    | INIT |
|-----------|----------------------------------------------------------|----------|---------|------|
| 575 & 580 | Assemble Action and Stock                                | 1 25     | 91      | RW   |
| 600       | Proof                                                    | 1 25     | 91      | RW   |
| 607       | Check Headspace                                          | 1 25     | 91      | RW   |
| 610       | Dis-assemble Gun                                         | 1 25     | 91      | RW   |
| 612       | Magnaflux Barrel Action                                  | 1 25     | 91      | KR   |
|           | Magnaflux Bolt                                           | 1 25     | 91      | KR   |
| 615       | Rollmark Caliber                                         | 1 25     | 91      | LS   |
| 617       | Drill and Tap Sight Holes                                | 1 30     | 91      | FB   |
| 618       | Polish Barrel ABB                                        | 1 30     | 91      | WB   |
| 620       | Apply Coatings (Barrel Action)                           |          | 2-10-91 | TJ   |
|           | Apply Coating (Bolt)                                     |          |         |      |
| 625       | Final Assembly                                           |          |         |      |
|           | A) Clean inside of Bolt Assembly                         |          | 2/11/91 | RW   |
|           | B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head |          | 2/11/91 | RW   |
|           | C) Inspect Ejector Hole for Chamfer                      |          | 2/11/91 | RW   |
|           | D) Oil Firing Pin Ass'y                                  |          | 2/11/91 | RW   |
|           | E) Adjust Trigger Pull to Min Setting and Stake          |          | 2/13/91 | 90   |

| op. #        | OP. NAME                                                    | READINGS               |       |       |      |      | DATE    | INIT |
|--------------|-------------------------------------------------------------|------------------------|-------|-------|------|------|---------|------|
| 625<br>cont. | F) Safety On Force                                          | 4                      | 4     | 4     |      |      | 2/13/91 | WB   |
|              | G) Safety Off Force                                         | 2 1/2                  | 2 1/2 | 2 1/2 |      |      | 2/13/91 | WB   |
|              | H) Trigger Pull Test & Retainability                        |                        |       |       |      |      | 2/13/91 | JK   |
|              | I) Firing Pin Indent                                        | .022                   | .0215 | .0215 |      |      | 2/13/91 | WB   |
|              | J) Assemble Stock                                           |                        |       |       |      |      | 2/14/91 | RW   |
|              | K) Assemble Swivel Studs                                    |                        |       |       |      |      | 3-6-91  | DH   |
|              | L) Attach Front and Rear Sight Assemblies                   |                        |       |       |      |      | 2/14/91 | RW   |
|              | M) Iron Sight Alignment                                     |                        |       |       |      |      | 2/14/91 | RW   |
|              | N) Detach Front & Rear Sights & place in numbered container |                        |       |       |      |      | 2/14/91 | RW   |
|              | O) Attach Scope to Rifle                                    |                        |       |       |      |      | 2/14/91 | RW   |
|              | P) Detach & Attach Scope 20 Times                           |                        |       |       |      |      | 2/14/91 | RW   |
| 640          | Gallery Target & Test                                       |                        |       |       |      |      | 2/14/91 | KJ   |
|              | A) Time                                                     |                        |       |       |      |      |         | KJ   |
|              | B) Malfunctions                                             |                        |       |       |      |      |         | KJ   |
|              | C) Pierced Primers                                          |                        |       |       |      |      |         | KJ   |
|              | D) Optical Clarity of Scope                                 |                        |       |       |      |      |         | KJ   |
| 645          | Inspect for Live Ammo                                       |                        |       |       |      |      | 2/14/91 | KV   |
| 655          | Final Inspection                                            | New Stock / Retarget - |       |       |      |      |         |      |
|              | A) Headspace                                                |                        |       |       |      |      | 3-6-91  | DH   |
|              | B) Trigger Pull                                             | 2.28                   | 2.38  | 2.21  | 2.40 | 2.42 | 2/21/91 | Jel  |
|              | C) Function                                                 |                        |       |       |      |      | 3-6-91  | DH   |
| 660          | Pack                                                        |                        |       |       |      |      | 3-15-91 | DH   |

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN  
INITIAL & CYCLE TESTS  
2.50# + 50# -  
3.00# + 75#  
4.00# + 1.00#

SERIAL NO. C6611391  
DATE 2/13/91  
TESTER JL

|         | 2.50#<br>INITIAL | 2.50# AFTER<br>50 CYCLES | FINAL TEST &<br>TO RESET 2.50# |      | COMMENTS                                                               |
|---------|------------------|--------------------------|--------------------------------|------|------------------------------------------------------------------------|
| PULL #1 | 2.31             | 2.24                     | 2.28                           | 2.28 | MIN. SETTING,<br>NO AVG. OF 5<br>READINGS ACCEPT-<br>ABLE LESS THAN 2# |
| PULL #2 | 2.44             | 2.12                     | 2.24                           | 2.38 |                                                                        |
| PULL #3 | 2.50             | 2.23                     | 2.23                           | 2.21 |                                                                        |
| PULL #4 | 2.23             | 2.25                     | 2.22                           | 2.40 |                                                                        |
| PULL #5 | 2.44             | 2.22                     | 2.26                           | 2.42 |                                                                        |
| TOTAL   |                  |                          |                                |      |                                                                        |
| AVG.    |                  |                          |                                |      |                                                                        |

|         | 3.00#<br>INITIAL | 3.00# AFTER<br>20 CYCLES |  | COMMENTS |
|---------|------------------|--------------------------|--|----------|
| PULL #1 | 3.23             | 3.26                     |  |          |
| PULL #2 | 3.25             | 3.28                     |  |          |
| PULL #3 | 3.29             | 3.38                     |  |          |
| PULL #4 | 3.28             | 3.36                     |  |          |
| PULL #5 | 3.33             | 3.38                     |  |          |
| 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 | 4.34             | 4.51                     |                                | 4.48                                 |
| PULL #2 | 4.40             | 4.19                     |                                | 4.27                                 |
| PULL #3 | 4.39             | 4.50                     |                                | 4.30                                 |
| PULL #4 | 4.51             | 4.22                     |                                | 4.30                                 |
| PULL #5 | 4.50             | 4.35                     |                                | 4.21                                 |
| TOTAL   |                  |                          |                                |                                      |
| AVG.    |                  |                          |                                |                                      |

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # C6611391  
15 Feb 1991

CENTROIDAL DISTANCES

|      |   |         |
|------|---|---------|
| 0 TO | 1 | .395841 |
| 1 TO | 2 | .444731 |
| 1 TO | 3 | .501378 |
| 1 TO | 4 | .245294 |
| 1 TO | 5 | .574314 |

POI: <----POI

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0166  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.1054  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .106699  
THE AMP FOR THIS RIFLE IS: .9948

14 Feb 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/C6611351

# CENTERFIRE PATTERNS

# 1

POA

1 in circle

2 in circle

3 in circle

CENTROID \*

# OF SHOTS= 10

# IN CIR

1 in = 3

2 in = 5

3 in = 6

HS= 3.201

VS= 3.480

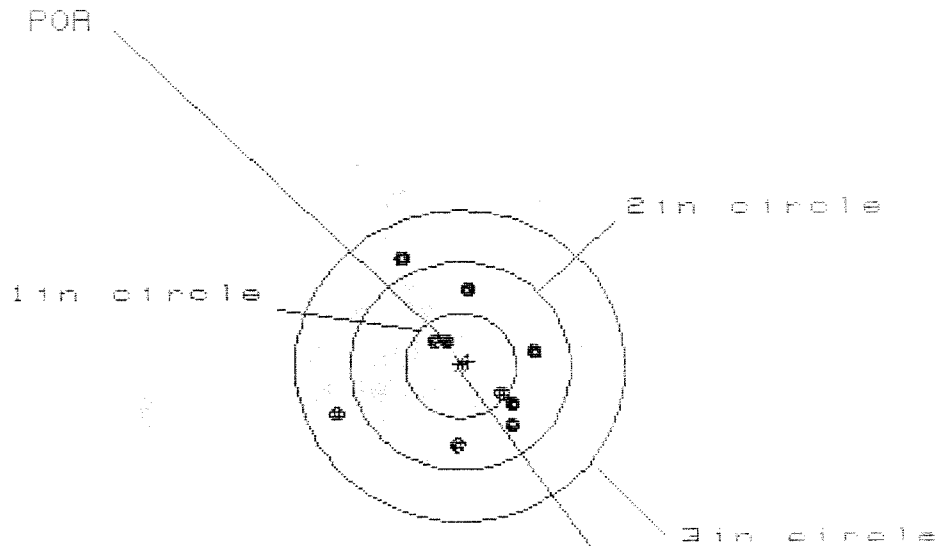
GS= 3.497

| PATTERN #                     | 1      | 2      | 3      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | 1.646  | 1.623  | .959   |
| MINIMUM X                     | -1.555 | -1.578 | -1.375 |
| MAXIMUM Y                     | 1.973  | .803   | .710   |
| MINIMUM Y                     | -1.507 | -1.287 | -1.187 |
| CENTROID X                    | .357   | .380   | .177   |
| CENTROID Y                    | -.171  | -.391  | -.491  |
| POA TO CENTROID in.           | .396   | .545   | .522   |
| MIN RADIUS                    | .099   | .318   | .460   |
| MEAN RADIUS                   | 1.072  | .992   | .912   |
| MAX RADIUS                    | 1.984  | 1.811  | 1.375  |
| HORIZONTAL SPREAD             | 3.201  | 3.201  | 2.334  |
| VERTICAL SPREAD               | 3.480  | 2.090  | 1.897  |
| EXTREME SPREAD                | 3.497  | 3.317  | 2.334  |
| NUMBER IN ONE INCH CIRCLE =   | 3      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 5      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 6      |        |        |

14 Feb 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/CBB11391

# CENTERFIRE PATTERNS # 2



# OF SHOTS- 10

# IN CIR

1in = 3

2in = 8

3in = 10

HS= 1.814

VS= 1.767

GS= 1.938

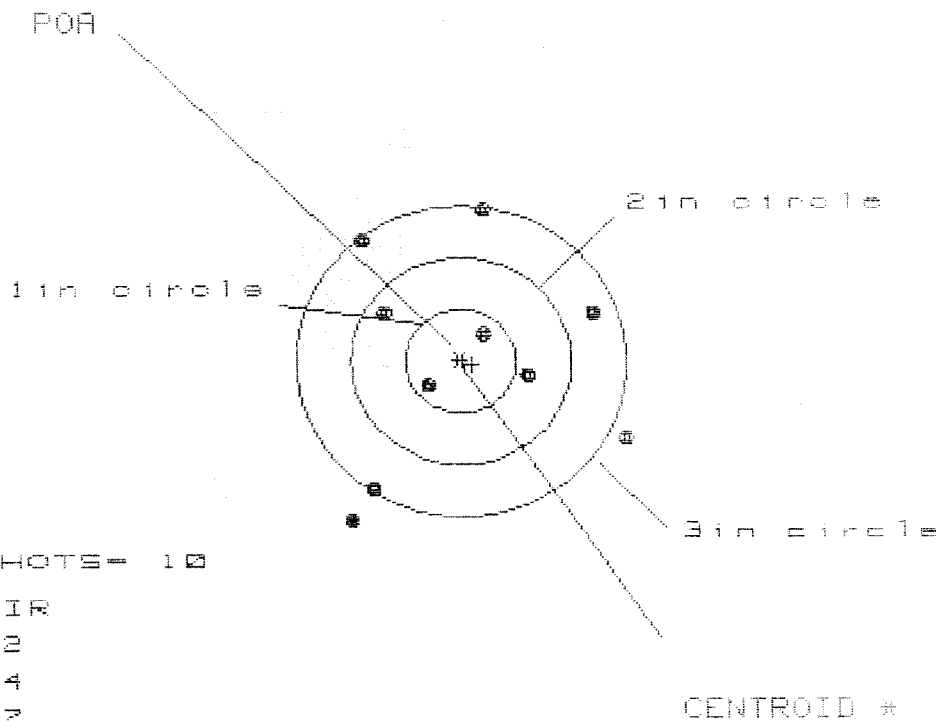
CENTROID #

| PATTERN #                   | : | 2      | 9     | 8     |
|-----------------------------|---|--------|-------|-------|
| SHOTS (BEST OF)             | : | 10     | 9     | 8     |
| MAXIMUM X                   | : | .661   | .533  | .453  |
| MINIMUM X                   | : | -1.152 | -.642 | -.419 |
| MAXIMUM Y                   | : | 1.032  | .976  | .830  |
| MINIMUM Y                   | : | -.735  | -.791 | -.668 |
| CENTROID X                  | : | -.068  | .061  | .141  |
| CENTROID Y                  | : | -.040  | .016  | -.107 |
| POA TO CENTROID in.         | : | .079   | .063  | .177  |
| MIN RADIUS                  | : | .289   | .340  | .215  |
| MEAN RADIUS                 | : | .699   | .624  | .535  |
| MAX RADIUS                  | : | 1.257  | 1.168 | .836  |
| HORIZONTAL SPREAD           | : | 1.814  | 1.175 | .872  |
| VERTICAL SPREAD             | : | 1.767  | 1.767 | 1.498 |
| EXTREME SPREAD              | : | 1.938  | 1.912 | 1.506 |
| NUMBER IN ONE INCH CIRCLE   | = | 3      |       |       |
| NUMBER IN TWO INCH CIRCLE   | = | 8      |       |       |
| NUMBER IN THREE INCH CIRCLE | = | 10     |       |       |

14 Feb 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/CBS111991

# CENTERFIRE PATTERNS # 3



# OF SHOTS = 10

# IN CIR

1 in = 2

2 in = 4

3 in = 7

HS = 2.424

VS = 3.020

GS = 3.250

|                             |   |        |        |        |
|-----------------------------|---|--------|--------|--------|
| PATTERN #                   | : | 3      |        |        |
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 1.466  | 1.360  | 1.253  |
| MINIMUM X                   | : | -0.958 | -1.010 | -0.840 |
| MAXIMUM Y                   | : | 1.514  | 1.346  | 1.229  |
| MINIMUM Y                   | : | -1.506 | -1.350 | -1.467 |
| CENTROID X                  | : | -0.101 | .005   | -0.165 |
| CENTROID Y                  | : | .033   | .200   | .317   |
| POA TO CENTROID in.         | : | .106   | .200   | .357   |
| MIN RADIUS                  | : | .350   | .158   | .300   |
| MEAN RADIUS                 | : | 1.130  | 1.035  | .960   |
| MAX RADIUS                  | : | 1.785  | 1.650  | 1.644  |
| HORIZONTAL SPREAD           | : | 2.424  | 2.370  | 2.093  |
| VERTICAL SPREAD             | : | 3.020  | 2.696  | 2.696  |
| EXTREME SPREAD              | : | 3.250  | 3.048  | 2.893  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 2      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 4      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 7      |        |

14 Feb 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/C8B11391

# CENTERFIRE PATTERNS

# 4

POA

1in circle

2in circle

3in circle

CENTROID \*

# OF SHOTS= 10

# IN CIR

1in = 0

2in = 5

3in = 8

HS= 2.8000

VS= 2.173

GS= 3.007

PATTERN #

:

4

SHOTS (BEST OF)

:

10

9

8

MAXIMUM X

:

1.503

1.628

1.036

MINIMUM X

:

-1.297

-1.172

-.969

MAXIMUM Y

:

.895

.753

.703

MINIMUM Y

:

-1.278

-.682

-.732

CENTROID X

:

.112

-.013

-.216

CENTROID Y

:

-.159

-.017

.033

POA TO CENTROID in.

:

.194

.021

.219

MIN RADIUS

:

.517

.669

.531

MEAN RADIUS

:

1.086

.998

.879

MAX RADIUS

:

1.701

1.676

1.269

HORIZONTAL SPREAD

:

2.800

2.800

2.005

VERTICAL SPREAD

:

2.173

1.435

1.435

EXTREME SPREAD

:

3.007

2.837

2.197

NUMBER IN ONE INCH CIRCLE =

0

NUMBER IN TWO INCH CIRCLE =

5

NUMBER IN THREE INCH CIRCLE =

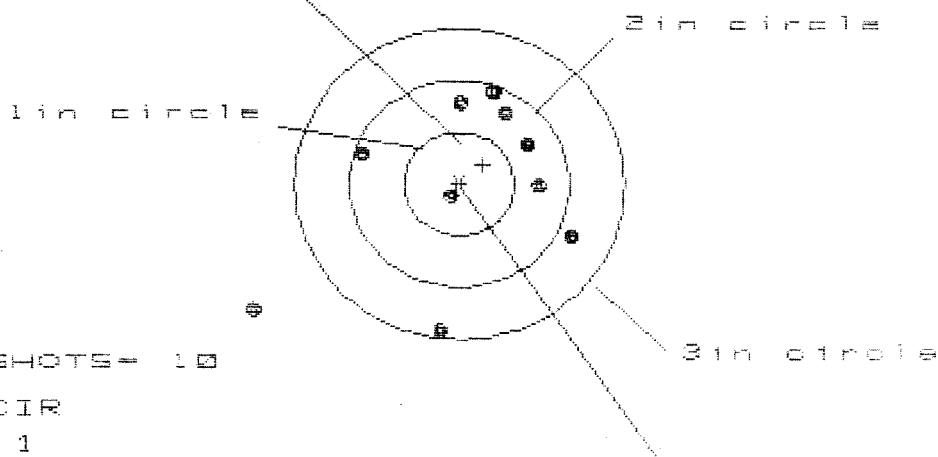
8

14 Feb 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/C8B11391

# CENTERFIRE PATTERNS # 5

POB



# OF SHOTS= 10

# IN CIR

1 in = 1

2 in = 7

3 in = 9

HS= 2.855

VS= 2.297

QS= 3.052

CENTROID #

PATTERN #

5

SHOTS (BEST OF)

10

9

8

MAXIMUM X

.967

.758

.709

MINIMUM X

-1.888

-1.103

-1.152

MAXIMUM Y

.928

.798

.611

MINIMUM Y

-1.369

-1.499

-.810

CENTROID X

-.217

-.008

.041

CENTROID Y

-.190

-.060

.127

POB TO CENTROID in.

.288

.061

.134

MIN RADIUS

.125

.371

.398

MEAN RADIUS

.987

.803

.670

MAX RADIUS

2.218

1.549

1.152

HORIZONTAL SPREAD

2.855

1.861

1.861

VERTICAL SPREAD

2.297

2.297

1.421

EXTREME SPREAD

3.052

2.354

2.030

NUMBER IN ONE INCH CIRCLE =

1

CENTROIDAL DISTANCES

|      |   |         |
|------|---|---------|
| Ø TO | 1 | .129259 |
| 1 TO | 2 | .245491 |
| 1 TO | 3 | .106621 |
| 1 TO | 4 | .25728  |
| 1 TO | 5 | .375217 |

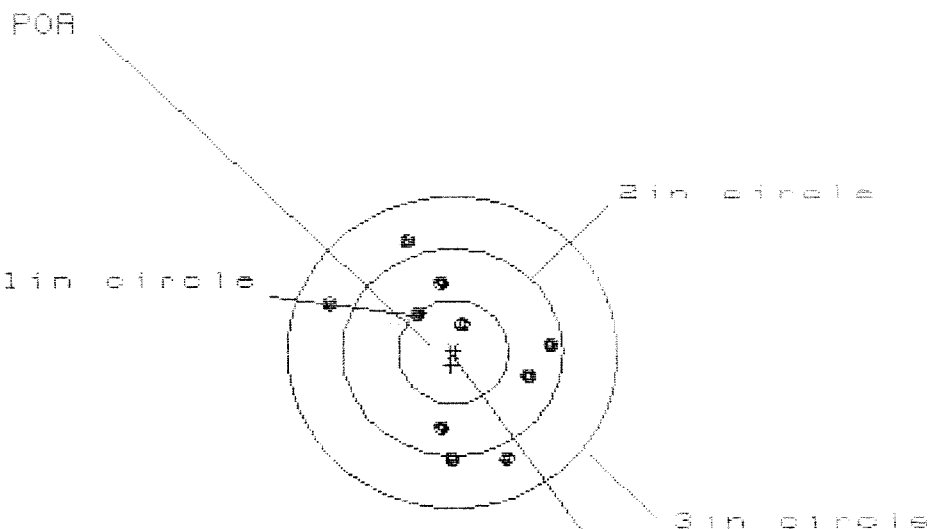
Ø ←---POR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .1816  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0602  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .191318  
THE AMR FOR THIS RIFLE IS: .8928

6 Mar 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/08611391.1

# CENTERFIRE PATTERNS # 1



# OF SHOTS = 10

# IN CIR

1 in = 2

2 in = 6

3 in = 10

HS = 2.066

VS = 2.170

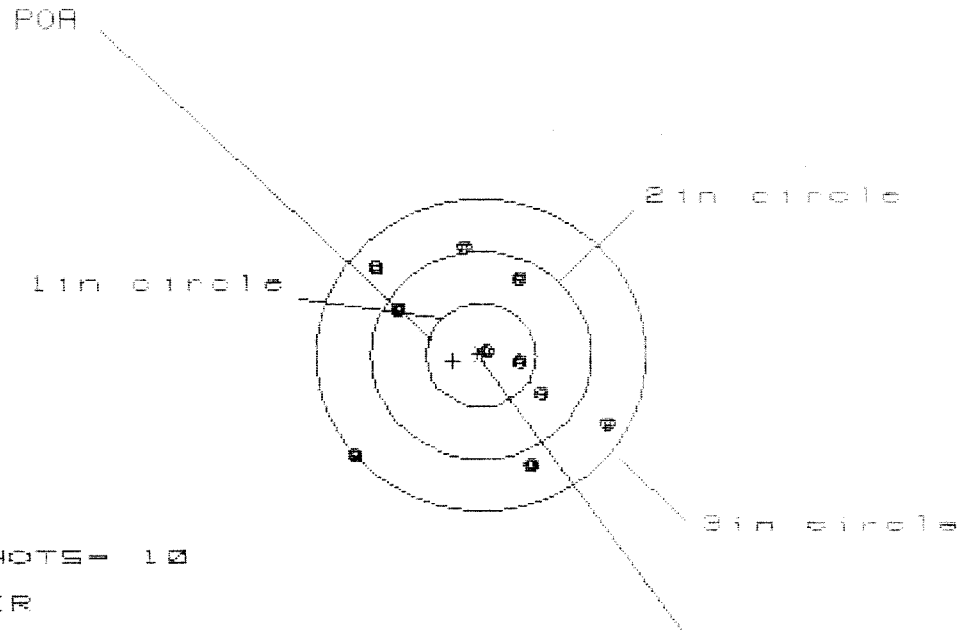
GS = 2.268

| PATTERN #                   | : | 1      | 9      | 8     |
|-----------------------------|---|--------|--------|-------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8     |
| MAXIMUM X                   | : | .917   | .790   | .724  |
| MINIMUM X                   | : | -1.149 | -.527  | -.543 |
| MAXIMUM Y                   | : | 1.112  | 1.160  | .890  |
| MINIMUM Y                   | : | -1.058 | -1.010 | -.866 |
| CENTROID X                  | : | .018   | .145   | .211  |
| CENTROID Y                  | : | .128   | .080   | -.065 |
| POA TO CENTROID in.         | : | .130   | .166   | .221  |
| MIN RADIUS                  | : | .277   | .325   | .482  |
| MEAN RADIUS                 | : | .841   | .792   | .727  |
| MAX RADIUS                  | : | 1.227  | 1.274  | .950  |
| HORIZONTAL SPREAD           | : | 2.066  | 1.317  | 1.267 |
| VERTICAL SPREAD             | : | 2.170  | 2.170  | 1.756 |
| EXTREME SPREAD              | : | 2.268  | 2.268  | 1.789 |
| NUMBER IN ONE INCH CIRCLE   | = | 2      |        |       |
| NUMBER IN TWO INCH CIRCLE   | = | 6      |        |       |
| NUMBER IN THREE INCH CIRCLE | = | 10     |        |       |

6 Mar 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/C8611391.1

# CENTERFIRE PATTERNS # 2



# OF SHOTS- 10

# IN CIR

1in = 2

2in = 5

3in = 10

HS= 2.267

VS= 2.097

GS= 2.580

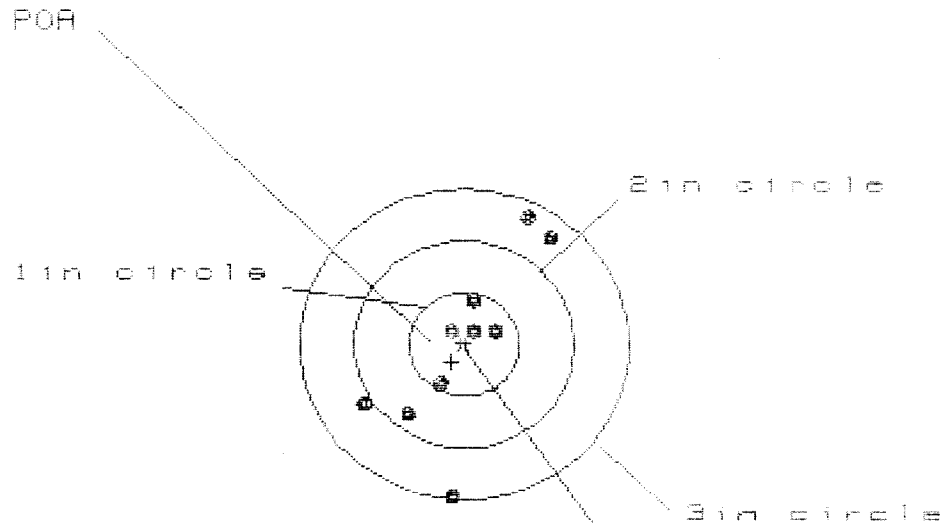
CENTROID \*

| PATTERN #                     | 2      | 2      | 2      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | 1.147  | 1.022  | .598   |
| MINIMUM X                     | -1.121 | -1.037 | -.989  |
| MAXIMUM Y                     | 1.072  | .964   | .865   |
| MINIMUM Y                     | -1.025 | -1.133 | -1.232 |
| CENTROID X                    | .253   | .377   | .249   |
| CENTROID Y                    | .057   | .165   | .264   |
| POA TO CENTROID in.           | .259   | .412   | .363   |
| MIN RADIUS                    | .034   | .141   | .210   |
| MEAN RADIUS                   | .912   | .835   | .786   |
| MAX RADIUS                    | 1.485  | 1.290  | 1.315  |
| HORIZONTAL SPREAD             | 2.267  | 2.059  | 1.507  |
| VERTICAL SPREAD               | 2.097  | 2.097  | 2.097  |
| EXTREME SPREAD                | 2.580  | 2.580  | 2.342  |
| NUMBER IN ONE INCH CIRCLE =   | 2      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 5      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 10     |        |        |

8 Mar 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/C8611391.1

# CENTERFIRE PATTERNS # 3



# OF SHOTS- 10

# IN CIR

1in = 5

2in = 6

3in = 10

HSI = 1.773

VS = 2.721

GS = 2.811

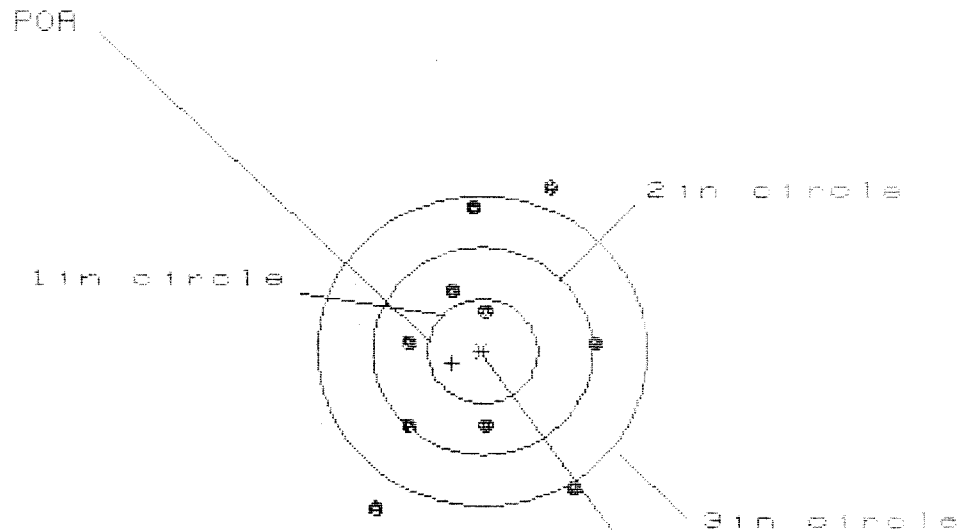
CENTROID #

| PATTERN #                     | 3      | 9     | 8     |
|-------------------------------|--------|-------|-------|
| SHOTS (BEST OF)               | 10     | 9     | 8     |
| MAXIMUM X                     | .810   | .796  | .866  |
| MINIMUM X                     | -.963  | -.977 | -.907 |
| MAXIMUM Y                     | 1.267  | 1.106 | .994  |
| MINIMUM Y                     | -1.454 | -.867 | -.729 |
| CENTROID X                    | .116   | .130  | .060  |
| CENTROID Y                    | .170   | .331  | .193  |
| POA TO CENTROID in.           | .206   | .356  | .202  |
| MIN RADIUS                    | .154   | .077  | .170  |
| MEAN RADIUS                   | .770   | .671  | .605  |
| MAX RADIUS                    | 1.460  | 1.241 | 1.318 |
| HORIZONTAL SPREAD             | 1.773  | 1.773 | 1.773 |
| VERTICAL SPREAD               | 2.721  | 1.973 | 1.723 |
| EXTREME SPREAD                | 2.811  | 2.376 | 2.360 |
| NUMBER IN ONE INCH CIRCLE =   | 5      |       |       |
| NUMBER IN TWO INCH CIRCLE =   | 6      |       |       |
| NUMBER IN THREE INCH CIRCLE = | 10     |       |       |

6 Mar 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/C6611391.1

# CENTERFIRE PATTERNS # 4



# OF SHOTS- 10

# IN CIR

1in = 1

2in = 5

3in = 7

HS= 1.971

VS= 3.077

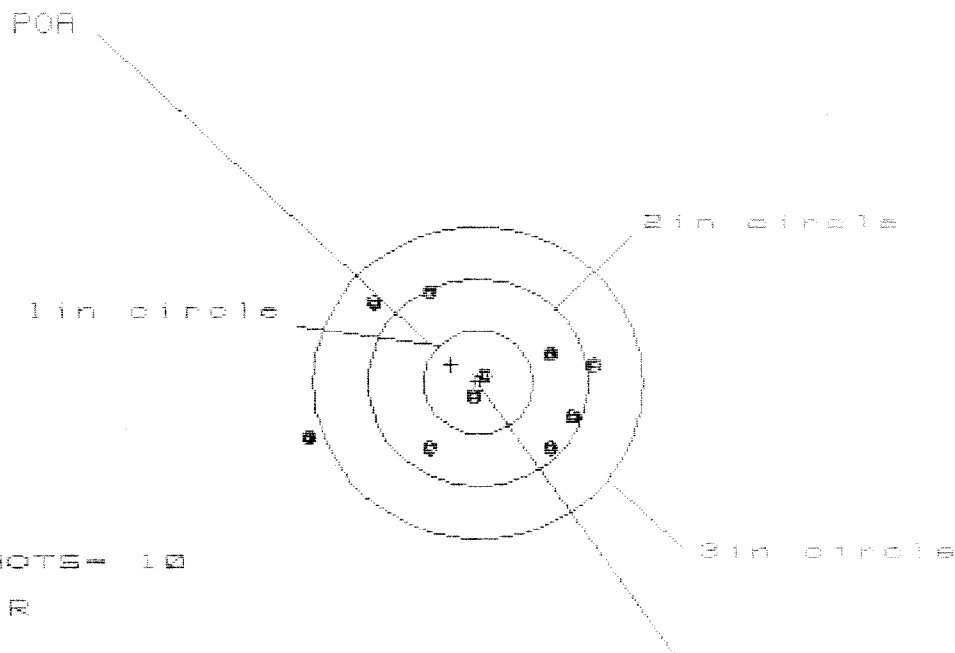
GS= 3.478

| PATTERN #                     | 4      | 9      | 8      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | 1.023  | .917   | .988   |
| MINIMUM X                     | -.948  | -.796  | -.725  |
| MAXIMUM Y                     | 1.566  | 1.398  | 1.356  |
| MINIMUM Y                     | -1.511 | -1.476 | -1.301 |
| CENTROID X                    | .275   | .381   | .310   |
| CENTROID Y                    | .116   | .284   | .109   |
| POA TO CENTROID in.           | .299   | .475   | .328   |
| MIN RADIUS                    | .423   | .269   | .430   |
| MEAN RADIUS                   | 1.086  | .990   | .924   |
| MAX RADIUS                    | 1.784  | 1.651  | 1.533  |
| HORIZONTAL SPREAD             | 1.971  | 1.713  | 1.713  |
| VERTICAL SPREAD               | 3.077  | 2.874  | 2.657  |
| EXTREME SPREAD                | 3.478  | 2.879  | 2.809  |
| NUMBER IN ONE INCH CIRCLE =   | 1      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 5      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 7      |        |        |

6 Mar 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/C8611391.1

# CENTERFIRE PATTERNS # 5



# OF SHOTS= 10

# IN CIR

1in = 2

2in = 6

3in = 8

HS= 2.584

VS= 1.526

GS= 2.689

CENTROID #

| PATTERN #                   | : | 5      | 9      | 8     |
|-----------------------------|---|--------|--------|-------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8     |
| MAXIMUM X                   | : | 1.037  | .865   | .729  |
| MINIMUM X                   | : | -1.547 | -1.091 | -.760 |
| MAXIMUM Y                   | : | .908   | .845   | .939  |
| MINIMUM Y                   | : | -.618  | -.681  | -.587 |
| CENTROID X                  | : | .246   | .418   | .554  |
| CENTROID Y                  | : | -.170  | -.107  | -.201 |
| POA TO CENTROID in.         | : | .299   | .431   | .589  |
| MIN RADIUS                  | : | .097   | .080   | .240  |
| MEAN RADIUS                 | : | .855   | .750   | .670  |
| MAX RADIUS                  | : | 1.649  | 1.325  | 1.207 |
| HORIZONTAL SPREAD           | : | 2.584  | 1.956  | 1.489 |
| VERTICAL SPREAD             | : | 1.526  | 1.526  | 1.526 |
| EXTREME SPREAD              | : | 2.689  | 2.156  | 1.899 |
| NUMBER IN ONE INCH CIRCLE   | = | 2      |        |       |
| NUMBER IN TWO INCH CIRCLE   | = | 6      |        |       |
| NUMBER IN THREE INCH CIRCLE | = | 9      |        |       |