

C6611545

MODEL 700™ M24

Model SWS™

Action

Barrel Length

Capacity

Order No. 5715

\*Includes 1 in chamber.

*Remington*

**Arms Services Repair & Estimate System**

File Add Repair Estimate Repair Expedite Repair Inquiry Repair Tools CSR Tools Reports Table Maintenance System Maintenance Help

**Repair Inquiry**

Repair Number: **RE00088980** Serial: C6611545 Model M24 SWS CenterFire Caliber: 7.62 NATO Repairman: Status: Closed 12/4/2004 5:55:59 AM

**Address Information**

Customer: Received From: Return To: Received From:

Name: **DEPT OF ARMY TRANSPORTATION OFFICER** **DEPT OF ARMY TRANSPORTATION OFFICER**

Address 1: **BLDG 5464** **BLDG 5464**

Address 2: **DUGWAY PROVING GROUND** PO Box: **DUGWAY PROVING GROUND** PO Box:

City: **DUGWAY** **DUGWAY**

State: **UT** Zip Code: **84022** Country: **US** State: **UT** Zip Code: **84022** Country: **US**

FFL ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

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

**Contact Information**

Phone:

Fax:

Email:

Comments:

**Received Condition**

2

Condition: **Poor**

Condition Notes:

CSR Notes:

**Accessories Received**

| Code | Desc        | Qty |
|------|-------------|-----|
| A007 | With Stud   | 3   |
| A008 | With Swivel | 2   |
| A010 | Hard Case   | 1   |
| A016 | Scope Rings | 2   |
| A017 | Scope Base  | 1   |
| A026 | Scope       | 1   |
| A045 | Bi Pod      | 1   |

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

negletf 12/4/2004 9:28 AM CAPS NUM INS SCPL

start 2 Arms Services P. 2

Serial Number: **C6611545**

Model: **M24 SWS**



**RE00088980**

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6611545.\_\_\_0

FILE DATE AND TIME: 01/13/2005 10:35

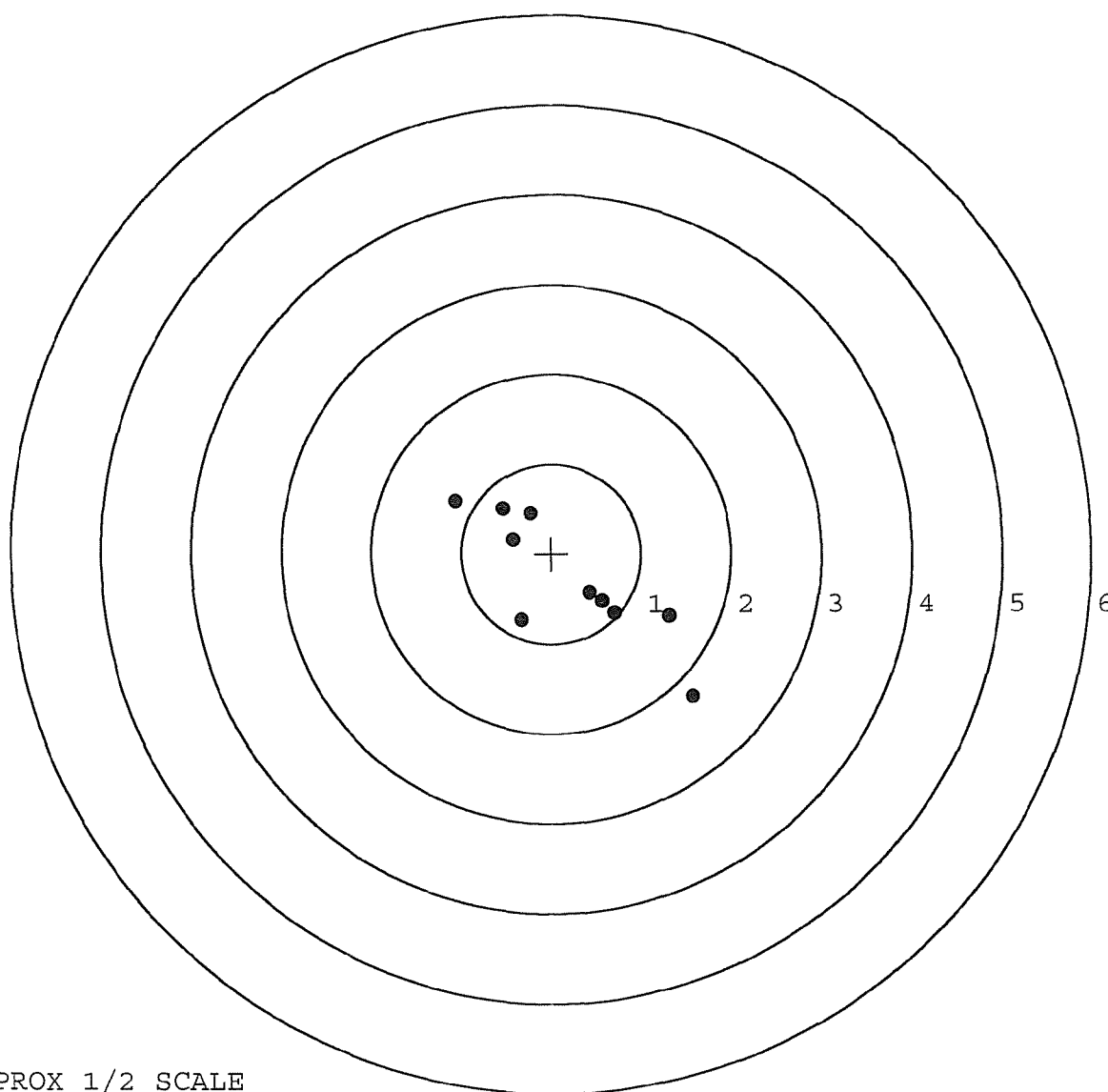
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

|                                                             |        |
|-------------------------------------------------------------|--------|
| The Average X Centroid of the Five Target Set:              | -0.024 |
| The Average Y Centroid of the Five Target Set:              | -0.154 |
| The Average Point of Impact of the Five Target Set:         | 0.156  |
| The Average Mean Radius of the Five Target Set:             | 0.666  |
| The Distance from POA to Centroid Target #1:                | 0.353  |
| The Distance from Centroid Target #2 to Centroid Target #1: | 0.557  |
| The Distance from Centroid Target #3 to Centroid Target #1: | 0.306  |
| The Distance from Centroid Target #4 to Centroid Target #1: | 0.257  |
| The Distance from Centroid Target #5 to Centroid Target #1: | 0.224  |

SERIAL NUMBER: C6611545. \_\_0  
TARGET NUMBER: 1  
FILE DATE: 01/13/2005  
FILE TIME: 10:35

X CENTROID: 0.198  
Y CENTROID: -0.293  
POA TO CENTROID: 0.353  
HORZ SPREAD: 2.648  
VERT SPREAD: 2.171  
GROUP SPREAD: 3.424  
MIN RADIUS: 0.267  
MAX RADIUS: 1.889  
MEAN RADIUS: 0.936  
# IN 1 IN DIAMETER: 2  
# IN 2 IN DIAMETER: 6  
# in 3 IN DIAMETER: 8

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 1.576  | -1.585 |
| 2:     | 1.319  | -0.692 |
| 3:     | 0.703  | -0.654 |
| 4:     | 0.567  | -0.524 |
| 5:     | 0.428  | -0.429 |
| 6:     | -0.337 | -0.737 |
| 7:     | -0.428 | 0.156  |
| 8:     | -0.234 | 0.451  |
| 9:     | -0.543 | 0.500  |
| 10:    | -1.072 | 0.586  |

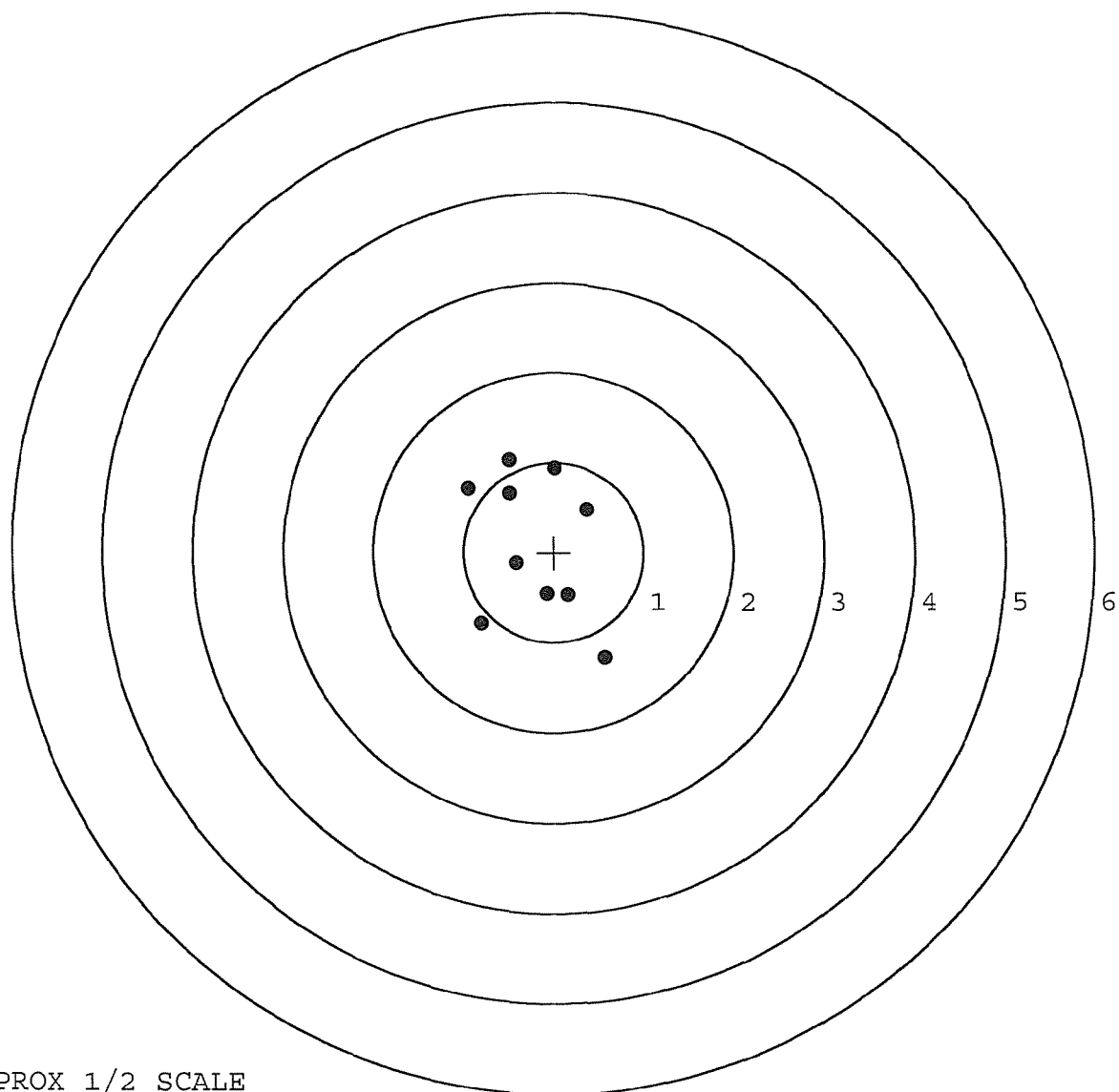


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611545. 0  
TARGET NUMBER: 2  
FILE DATE: 01/13/2005  
FILE TIME: 10:35

X CENTROID: -0.216  
Y CENTROID: 0.079  
POA TO CENTROID: 0.230  
HORZ SPREAD: 1.526  
VERT SPREAD: 2.195  
GROUP SPREAD: 2.443  
MIN RADIUS: 0.287  
MAX RADIUS: 1.477  
MEAN RADIUS: 0.824  
# IN 1 IN DIAMETER: 1  
# IN 2 IN DIAMETER: 8  
# in 3 IN DIAMETER: 10

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 0.573  | -1.169 |
| 2:     | 0.155  | -0.476 |
| 3:     | -0.086 | -0.461 |
| 4:     | -0.426 | -0.117 |
| 5:     | -0.805 | -0.796 |
| 6:     | 0.366  | 0.474  |
| 7:     | 0.012  | 0.937  |
| 8:     | -0.500 | 1.026  |
| 9:     | -0.500 | 0.663  |
| 10:    | -0.953 | 0.707  |

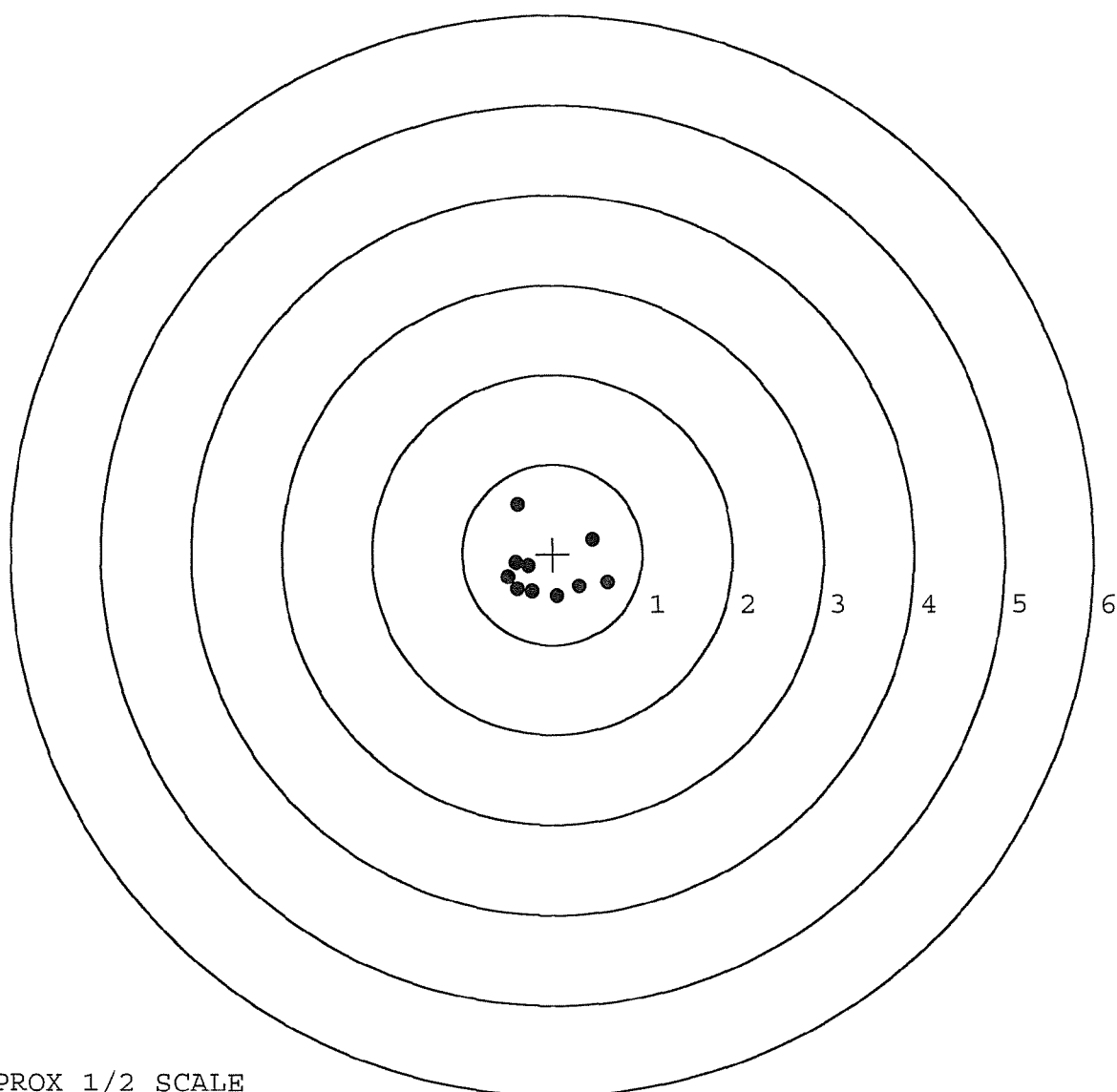


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611545. \_\_0  
TARGET NUMBER: 3  
FILE DATE: 01/13/2005  
FILE TIME: 10:35

X CENTROID: -0.083  
Y CENTROID: -0.172  
POA TO CENTROID: 0.191  
HORZ SPREAD: 1.103  
VERT SPREAD: 1.009  
GROUP SPREAD: 1.320  
MIN RADIUS: 0.200  
MAX RADIUS: 0.786  
MEAN RADIUS: 0.448  
# IN 1 IN DIAMETER: 7  
# IN 2 IN DIAMETER: 10  
# in 3 IN DIAMETER: 10

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 0.607  | -0.308 |
| 2:     | 0.441  | 0.162  |
| 3:     | -0.398 | 0.548  |
| 4:     | 0.296  | -0.358 |
| 5:     | 0.047  | -0.461 |
| 6:     | -0.228 | -0.416 |
| 7:     | -0.397 | -0.389 |
| 8:     | -0.280 | -0.139 |
| 9:     | -0.418 | -0.101 |
| 10:    | -0.496 | -0.255 |

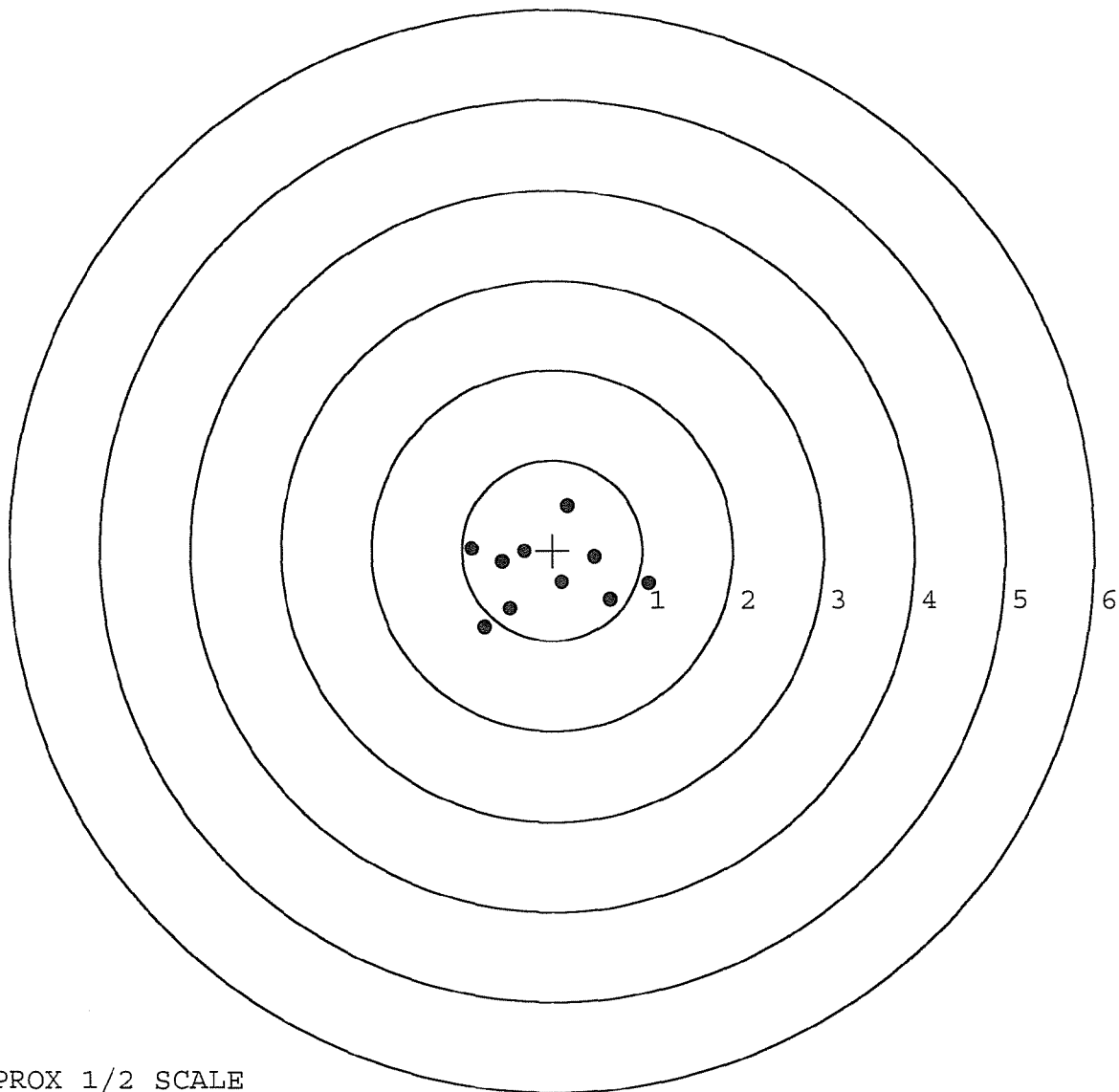


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611545. 0  
TARGET NUMBER: 4  
FILE DATE: 01/13/2005  
FILE TIME: 10:35

X CENTROID: -0.055  
Y CENTROID: -0.249  
POA TO CENTROID: 0.255  
HORZ SPREAD: 1.964  
VERT SPREAD: 1.352  
GROUP SPREAD: 2.001  
MIN RADIUS: 0.193  
MAX RADIUS: 1.132  
MEAN RADIUS: 0.665  
# IN 1 IN DIAMETER: 2  
# IN 2 IN DIAMETER: 9  
# in 3 IN DIAMETER: 10

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 1.070  | -0.367 |
| 2:     | 0.635  | -0.542 |
| 3:     | 0.464  | -0.078 |
| 4:     | 0.106  | -0.355 |
| 5:     | 0.169  | 0.494  |
| 6:     | -0.319 | -0.019 |
| 7:     | -0.561 | -0.128 |
| 8:     | -0.894 | 0.015  |
| 9:     | -0.476 | -0.650 |
| 10:    | -0.748 | -0.858 |

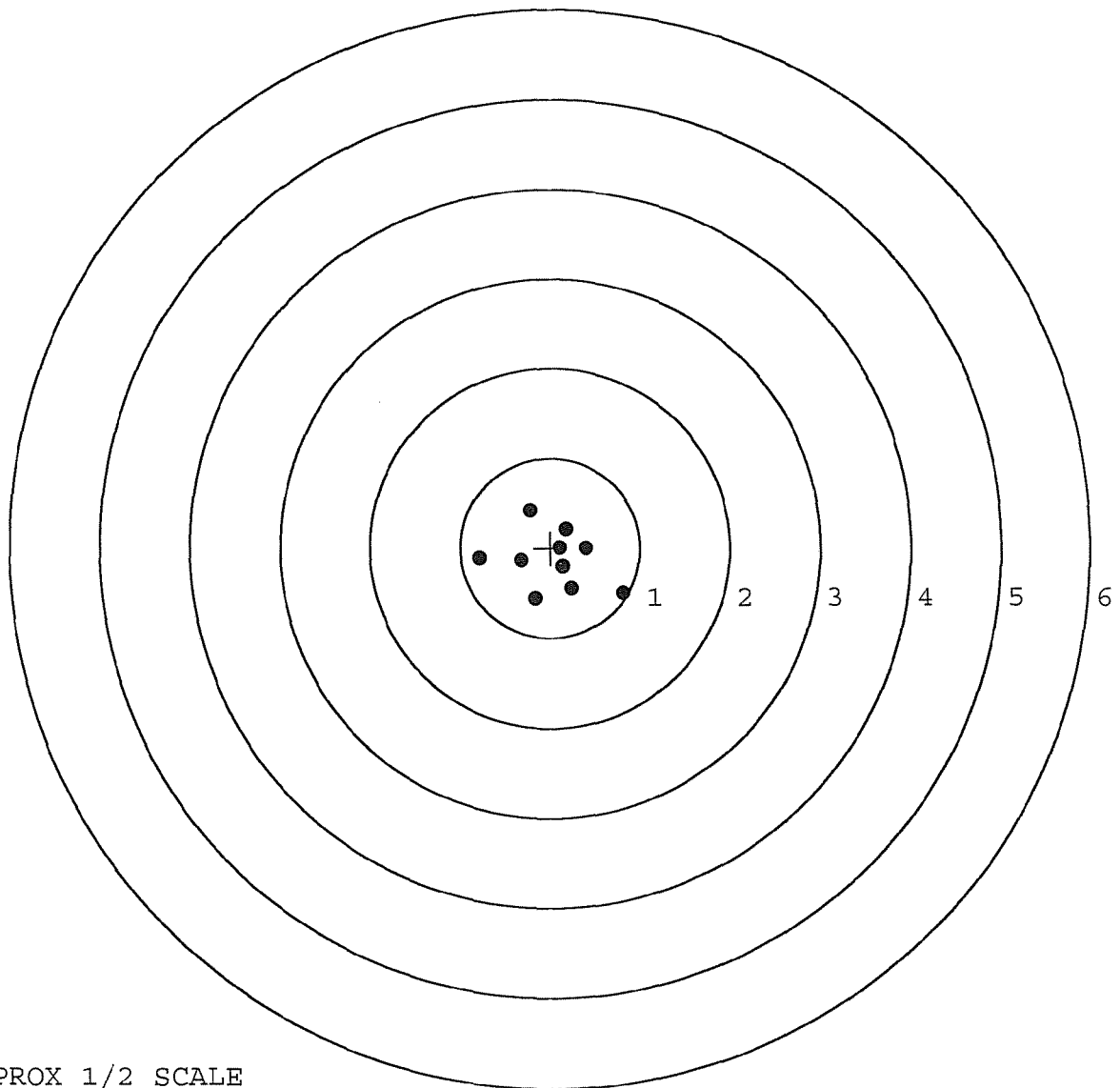


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611545. 0  
TARGET NUMBER: 5  
FILE DATE: 01/13/2005  
FILE TIME: 10:35

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 0.813  | -0.502 |
| 2:     | 0.240  | -0.454 |
| 3:     | -0.167 | -0.561 |
| 4:     | -0.332 | -0.144 |
| 5:     | -0.788 | -0.115 |
| 6:     | -0.223 | 0.420  |
| 7:     | 0.178  | 0.209  |
| 8:     | 0.106  | -0.002 |
| 9:     | 0.397  | -0.013 |
| 10:    | 0.145  | -0.211 |

X CENTROID: 0.037  
Y CENTROID: -0.137  
POA TO CENTROID: 0.142  
HORZ SPREAD: 1.601  
VERT SPREAD: 0.981  
GROUP SPREAD: 1.647  
MIN RADIUS: 0.131  
MAX RADIUS: 0.858  
MEAN RADIUS: 0.455  
# IN 1 IN DIAMETER: 7  
# IN 2 IN DIAMETER: 10  
# in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE



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

|                     |                    |                     |         |
|---------------------|--------------------|---------------------|---------|
| R & E NUMBER        | 88980              |                     |         |
| SERIAL NUMBER       | 06011545           |                     |         |
| LOG-IN DATE         | 12-4-04            |                     |         |
| INSPECT AND VERIFY: |                    |                     |         |
| OPERATION #         | OPERATION NAME     | DATE                | INITIAL |
| 550                 | DIS-ASSEMBLE GUN   | 12-7-04             | RTL     |
| 560 A               | RE-BARREL          | 12-15-04            | RTL     |
| B                   | DRILL AND TAP      | 12-27-04            | TRW     |
| 575                 | ASSEMBLE           | 12-16-04            | RTL     |
| 600                 | PROOF              | 12-16-04            | RTL     |
| 605                 | CHECK HEADSPACE    | 12-16-04            | RTL     |
| 610                 | DIS-ASSEMBLE GUN   | 12-27-04            | RTL     |
| 612                 | MAGNAFLUX          | OPERATOR            |         |
| 615                 | ROLLMARK CALIBER   | 12-27-04            | CW      |
| 618                 | ROTO-BLAST         | 12/28/04            | DG      |
| 620                 | APPLY COATINGS     | 1/3/05              | HP      |
| 625 A               | FINAL ASSEMBLY     | 1-10-05             | RTL     |
| B                   | TRIGGER PULL TEST  | N/A                 |         |
| C                   | SAFETY "ON" FORCE  |                     |         |
| D                   | SAFETY "OFF" FORCE |                     |         |
| E                   | FIRING PIN INDENT  |                     |         |
| 640                 | TARGET             | 1-13-05             | TRW     |
| 655                 | FINAL INSPECT      | 1-13-05             | AC      |
| 660                 | PACK               | 1-20-05             | DA      |
|                     |                    | SHIP DATE           |         |
|                     |                    | QAR INSPECTION DATE |         |

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

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

**MODEL 700™ NZ4**

**SERIAL NO.**  
C6611545

**ORDER NO.**  
5716

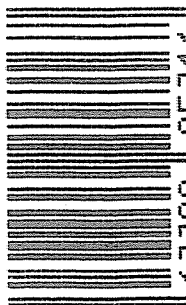
MADE IN ILLON, N.Y. U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada Marque Deposee.

20



5716 C6611545

UPC



0 47700 25716 7

repaired stock

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C 6611545

| OP. #     | OP. NAME                                                 | READINGS | DATE    | INIT |
|-----------|----------------------------------------------------------|----------|---------|------|
| 575 & 580 | Assemble Action and Stock                                |          | 2/1/91  | KA   |
| 600       | Proof                                                    |          | 2/1/91  | KA   |
| 607       | Check Headspace                                          |          | 2/1/91  | KA   |
| 610       | Dis-assemble Gun                                         |          | 2/1/91  | KA   |
| 612       | Magnaflux Barrel Action                                  | 2 11 91  |         | KCD  |
|           | Magnaflux Bolt                                           | 2 11 91  |         | KCD  |
| 615       | Rollmark Caliber                                         | 2 11 91  |         | GS   |
| 617       | Drill and Tap Sight Holes                                | 2 13 91  |         | LB   |
| 618       | Polish Barrel RAB                                        | 2 13 91  |         | LB   |
| 620       | Apply Coatings (Barrel Action)                           |          | 2-2-91  | PA   |
|           | Apply Coating (Bolt)                                     |          |         |      |
| 625       | Final Assembly                                           |          |         |      |
|           | A) Clean inside of Bolt Assembly                         |          | 3/20/91 | KS   |
|           | B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head |          | 3/20/91 | KS   |
|           | C) Inspect Ejector Hole for Chamfer                      |          | 3/20/91 | KS   |
|           | D) Oil Firing Pin Ass'y                                  |          | 3/20/91 | KS   |
|           | E) Adjust Trigger Pull to Min Setting and Stake          |          | 3-21-91 | JL   |

| op. #        | OP. NAME                                                    | READINGS |       |       |      |      | DATE    | INIT |
|--------------|-------------------------------------------------------------|----------|-------|-------|------|------|---------|------|
| 625<br>cont. | F) Safety On Force                                          | 5        | 4 3/4 | 5     |      |      | 3-22-91 | KS.  |
|              | G) Safety Off Force                                         | 2 3/4    | 2 1/2 | 2 1/2 |      |      | 3-22-91 | KS.  |
|              | H) Trigger Pull Test & Retainability                        |          |       |       |      |      | 3-21-91 | JU.  |
|              | I) Firing Pin Indent                                        | .022     | .0215 | .023  |      |      | 3-22-91 | KS   |
|              | J) Assemble Stock                                           |          |       |       |      |      | 3/22/91 | KS   |
|              | K) Assemble Swivel Studs                                    |          |       |       |      |      | 4-8-91  | D/H  |
|              | L) Attach Front and Rear Sight Assemblies                   |          |       |       |      |      | 3/22/91 | KS   |
|              | M) Iron Sight Alignment                                     |          |       |       |      |      | 3/22/91 | KS   |
|              | N) Detach Front & Rear Sights & place in numbered container |          |       |       |      |      | 3/22/91 | KS   |
|              | O) Attach Scope to Rifle                                    |          |       |       |      |      | 3/22/91 | KS   |
|              | P) Detach & Attach Scope 20 Times                           |          |       |       |      |      | 3/22/91 | KS   |
| 640          | Gallery Target & Test                                       |          |       |       |      |      | 4-3-91  | AC   |
|              | A) Time                                                     |          |       |       |      |      | 4-3-91  | AC   |
|              | B) Malfunctions                                             |          |       |       |      |      | 4-3-91  | AC   |
|              | C) Pierced Primers                                          |          |       |       |      |      | 4-3-91  | AC   |
|              | D) Optical Clarity of Scope                                 |          |       |       |      |      | 4-3-91  | AC   |
| 645          | Inspect for Live Ammo                                       |          |       |       |      |      | 4-3-91  | AC   |
| 655          | Final Inspection                                            |          |       |       |      |      |         |      |
|              | A) Headspace                                                |          |       |       |      |      | 4-8-91  | D/H  |
|              | B) Trigger Pull                                             | 2.46     | 2.36  | 2.36  | 2.37 | 2.25 | 4/5/91  | JL   |
|              | C) Function                                                 |          |       |       |      |      | 4-8-91  | D/H  |
| 660          | Pack                                                        |          |       |       |      |      | 6-19-91 | VF   |

# SWS TRIGGER PULL TEST

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

SERIAL NO C6611545 255

DATE 3-21-91 13800

TESTER JH

|         | 2.50#<br>INITIAL | 2.50# AFTER<br>50 CYCLES | FINAL TEST &<br>TO RESET 2.50# |      | COMMENTS                                                               |
|---------|------------------|--------------------------|--------------------------------|------|------------------------------------------------------------------------|
| PULL #1 | 2.38             | 2.34                     | 2.73                           | 2.46 | MIN. SETTING,<br>NO AVG. OF 5<br>READINGS ACCEPT-<br>ABLE LESS THAN 2# |
| PULL #2 | 2.35             | 2.40                     | 2.74                           | 2.36 |                                                                        |
| PULL #3 | 2.37             | 2.44                     | 2.72                           | 2.36 |                                                                        |
| PULL #4 | 2.37             | 2.39                     | 2.72                           | 2.37 |                                                                        |
| PULL #5 | 2.38             | 2.41                     | 2.70                           | 2.25 |                                                                        |
| TOTAL   |                  |                          |                                |      |                                                                        |
| AVG.    |                  |                          |                                |      |                                                                        |

|         | 3.00#<br>INITIAL | 3.00# AFTER<br>20 CYCLES |  | COMMENTS |
|---------|------------------|--------------------------|--|----------|
| PULL #1 | 3.31             | 3.27                     |  |          |
| PULL #2 | 3.29             | 3.18                     |  |          |
| PULL #3 | 3.34             | 3.27                     |  |          |
| PULL #4 | 3.32             | 3.31                     |  |          |
| PULL #5 | 3.28             | 3.25                     |  |          |
| 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 | 4.04             | 4.17                     |                                | 4.24                                 |
| PULL #2 | 4.05             | 4.24                     |                                | 4.35                                 |
| PULL #3 | 4.19             | 4.27                     |                                | 4.34                                 |
| PULL #4 | 4.22             | 4.28                     |                                | 4.35                                 |
| PULL #5 | 4.31             | 4.28                     |                                | 4.33                                 |
| TOTAL   |                  |                          |                                |                                      |
| AVG.    |                  |                          |                                |                                      |

MOD. \_\_\_\_\_ GA. \_\_\_\_\_ GUN \_\_\_\_\_  
 CAL. \_\_\_\_\_ # \_\_\_\_\_

| # | TEST | DATE | MALFUNCTION/DEFECT                    | ASSEM. #                |
|---|------|------|---------------------------------------|-------------------------|
|   |      | 1st  | check alignment<br>of cross hair<br>⊗ | KS                      |
|   |      | 2nd  | <del>REALIGNED<br/>SCOPE</del>        | <del>KS<br/>7/4/9</del> |
|   |      | 3rd  | try<br>again                          |                         |
|   |      | 4th  | I DID IT<br>AGAIN & AGAIN<br>⊗        |                         |
|   |      |      | FUNCTION                              |                         |

RD 6654 Rev 1

| TEST INIT. ACTION TO CORRECT |          | ASSEM.<br># |
|------------------------------|----------|-------------|
| PROOF                        |          |             |
| TEST                         |          |             |
| TGT                          |          |             |
| PROOF                        |          |             |
| TEST                         |          |             |
| TGT                          |          |             |
| PROOF                        | ENGINEER |             |
| TEST                         |          |             |
| TGT                          |          |             |
| PROOF                        | ENGINEER |             |
| TEST                         |          |             |
| TGT                          |          |             |

2-10

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # C6611545  
3 Apr 1991

CENTROIDAL DISTANCES

|      |   |         |
|------|---|---------|
| 0 TO | 1 | .110073 |
| 1 TO | 2 | .191442 |
| 1 TO | 3 | .116284 |
| 1 TO | 4 | .151605 |
| 1 TO | 5 | .260526 |

4<sup>5</sup> <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0834  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .041  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0929331  
THE AMR FOR THIS RIFLE IS: .9174

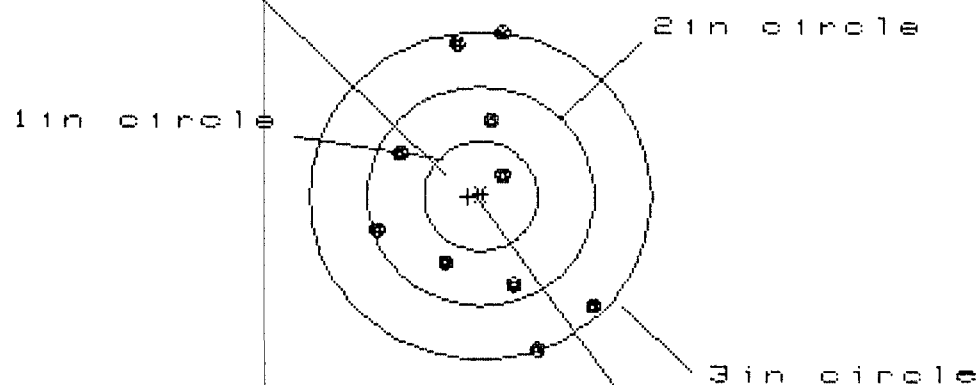


3 Apr 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/C6611545

# CENTERFIRE PATTERNS # 1

POA



# OF SHOTS- 10

# IN CIR

1 in = 1

2 in = 6

3 in = 10

HS= 1.931

VS= 2.884

GS= 2.919

| PATTERN #                   | 1      | 2      | 3     |
|-----------------------------|--------|--------|-------|
| SHOTS (BEST OF)             | 10     | 9      | 8     |
| MAXIMUM X                   | .999   | 1.049  | 1.081 |
| MINIMUM X                   | -.932  | -.882  | -.849 |
| MAXIMUM Y                   | 1.464  | 1.307  | 1.419 |
| MINIMUM Y                   | -1.420 | -1.113 | -.950 |
| CENTROID X                  | .110   | .060   | .027  |
| CENTROID Y                  | .004   | .161   | -.002 |
| POA TO CENTROID in.         | .110   | .172   | .028  |
| MIN RADIUS                  | .277   | .246   | .343  |
| MEAN RADIUS                 | 1.010  | .941   | .888  |
| MAX RADIUS                  | 1.490  | 1.530  | 1.440 |
| HORIZONTAL SPREAD           | 1.931  | 1.931  | 1.931 |
| VERTICAL SPREAD             | 2.884  | 2.420  | 2.369 |
| EXTREME SPREAD              | 2.919  | 2.679  | 2.679 |
| NUMBER IN ONE INCH CIRCLE   | = 1    |        |       |
| NUMBER IN TWO INCH CIRCLE   | = 6    |        |       |
| NUMBER IN THREE INCH CIRCLE | = 10   |        |       |

3 Apr 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/C6611545

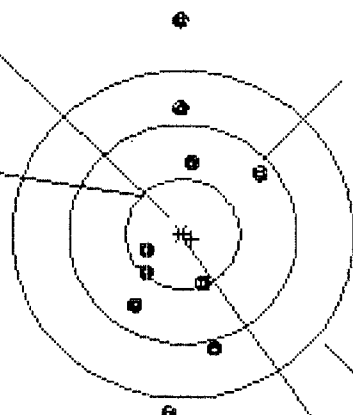
# CENTERFIRE PATTERNS # 2

POA

1 in circle

2 in circle

3 in circle



# OF SHOTS- 10

# IN CIR

1 in = 2

2 in = 6

3 in = 8

HS= 1.064

VS= 3.618

GS= 3.619

CENTROID \*

| PATTERN #                   | : | 2      |        |       |
|-----------------------------|---|--------|--------|-------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8     |
| MAXIMUM X                   | : | .667   | .663   | .648  |
| MINIMUM X                   | : | -.397  | -.401  | -.415 |
| MAXIMUM Y                   | : | 1.949  | 1.416  | 1.234 |
| MINIMUM Y                   | : | -1.669 | -1.452 | -.999 |
| CENTROID X                  | : | -.077  | -.073  | -.058 |
| CENTROID Y                  | : | .045   | -.172  | .010  |
| POA TO CENTROID in.         | : | .089   | .187   | .059  |
| MIN RADIUS                  | : | .322   | .287   | .323  |
| MEAN RADIUS                 | : | .952   | .801   | .733  |
| MAX RADIUS                  | : | 1.950  | 1.457  | 1.236 |
| HORIZONTAL SPREAD           | : | 1.064  | 1.064  | 1.064 |
| VERTICAL SPREAD             | : | 3.618  | 2.868  | 2.233 |
| EXTREME SPREAD              | : | 3.619  | 2.869  | 2.261 |
| NUMBER IN ONE INCH CIRCLE   | = |        | 2      |       |
| NUMBER IN TWO INCH CIRCLE   | = |        | 6      |       |
| NUMBER IN THREE INCH CIRCLE | = |        | 8      |       |

3 Apr 1991

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# CENTERFIRE PATTERNS # 3

POA

1in circle

2in circle

3in circle

CENTROID \*

# OF SHOTS- 10

# IN CIR

1in = 1

2in = 5

3in = 9

HS= 2.498

VS= 2.536

GS= 2.735

|                             |   |        |        |        |
|-----------------------------|---|--------|--------|--------|
| PATTERN #                   | : | 3      |        |        |
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 1.291  | 1.397  | 1.259  |
| MINIMUM X                   | : | -1.207 | -1.101 | -1.065 |
| MAXIMUM Y                   | : | 1.319  | 1.184  | 1.097  |
| MINIMUM Y                   | : | -1.217 | -.700  | -.787  |
| CENTROID X                  | : | .049   | -.057  | .081   |
| CENTROID Y                  | : | .103   | .238   | .325   |
| POA TO CENTROID in.         | : | .114   | .245   | .335   |
| MIN RADIUS                  | : | .464   | .424   | .295   |
| MEAN RADIUS                 | : | .992   | .915   | .859   |
| MAX RADIUS                  | : | 1.547  | 1.434  | 1.324  |
| HORIZONTAL SPREAD           | : | 2.498  | 2.498  | 2.324  |
| VERTICAL SPREAD             | : | 2.536  | 1.884  | 1.884  |
| EXTREME SPREAD              | : | 2.735  | 2.525  | 2.368  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 1      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 5      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 9      |        |

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# CENTERFIRE PATTERNS # 4

POA

1 in circle

2 in circle

3 in circle

CENTROID \*

# OF SHOTS- 10

# IN CIR

1 in = 4

2 in = 10

3 in = 10

HS= 1.748

VS= 1.271

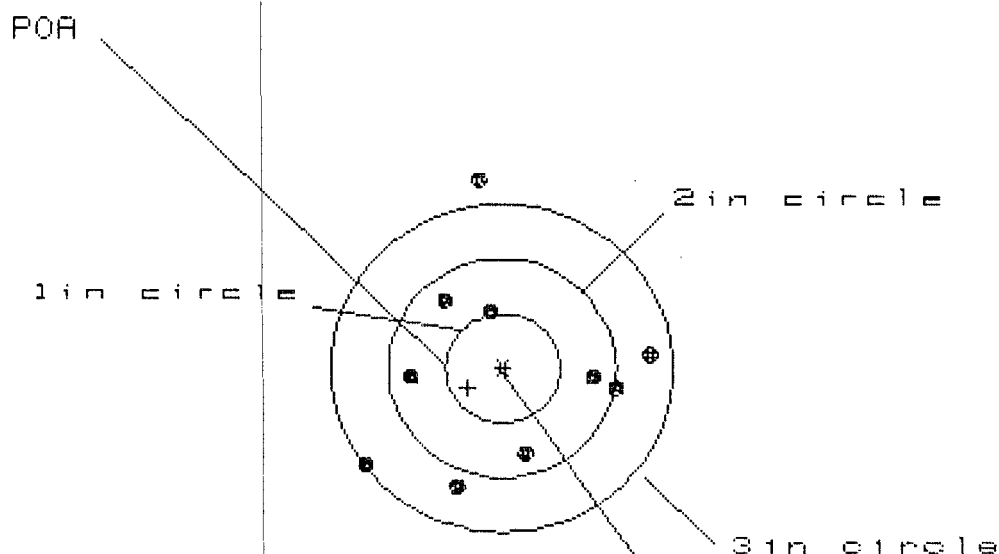
GS= 1.769

|                             |   |       |       |       |
|-----------------------------|---|-------|-------|-------|
| PATTERN #                   | : | 4     |       |       |
| SHOTS (BEST OF)             | : | 10    | 9     | 8     |
| MAXIMUM X                   | : | .875  | .778  | .325  |
| MINIMUM X                   | : | -.873 | -.710 | -.612 |
| MAXIMUM Y                   | : | .667  | .699  | .704  |
| MINIMUM Y                   | : | -.604 | -.572 | -.567 |
| CENTROID X                  | : | .032  | .129  | .031  |
| CENTROID Y                  | : | -.126 | -.158 | -.163 |
| POA TO CENTROID in.         | : | .130  | .204  | .166  |
| MIN RADIUS                  | : | .204  | .154  | .225  |
| MEAN RADIUS                 | : | .587  | .545  | .507  |
| MAX RADIUS                  | : | .918  | .780  | .769  |
| HORIZONTAL SPREAD           | : | 1.748 | 1.488 | .937  |
| VERTICAL SPREAD             | : | 1.271 | 1.271 | 1.271 |
| EXTREME SPREAD              | : | 1.769 | 1.490 | 1.271 |
| NUMBER IN ONE INCH CIRCLE   | = |       | 4     |       |
| NUMBER IN TWO INCH CIRCLE   | = |       | 10    |       |
| NUMBER IN THREE INCH CIRCLE | = |       | 10    |       |

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# CENTERFIRE PATTERNS # 5



# OF SHOTS - 10

# IN CIR

1 in = 0

2 in = 6

3 in = 8

HS = 2.516

VS = 2.780

GS = 2.786

| PATTERN #                   | 5      | 9      | 8     |
|-----------------------------|--------|--------|-------|
| SHOTS (BEST OF)             | 10     | 9      | 8     |
| MAXIMUM X                   | 1.289  | 1.263  | 1.107 |
| MINIMUM X                   | -1.227 | -1.253 | -.969 |
| MAXIMUM Y                   | 1.688  | .848   | .761  |
| MINIMUM Y                   | -1.092 | -.904  | -.991 |
| CENTROID X                  | .303   | .329   | .485  |
| CENTROID Y                  | .179   | -.009  | .078  |
| POA TO CENTROID in.         | .352   | .329   | .492  |
| MIN RADIUS                  | .578   | .652   | .615  |
| MEAN RADIUS                 | 1.046  | .964   | .887  |
| MAX RADIUS                  | 1.704  | 1.432  | 1.157 |
| HORIZONTAL SPREAD           | 2.516  | 2.516  | 2.076 |
| VERTICAL SPREAD             | 2.780  | 1.752  | 1.752 |
| EXTREME SPREAD              | 2.786  | 2.724  | 2.118 |
| NUMBER IN ONE INCH CIRCLE   | = 0    |        |       |
| NUMBER IN TWO INCH CIRCLE   | = 6    |        |       |
| NUMBER IN THREE INCH CIRCLE | = 8    |        |       |