

C6348990

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

\*Includes 1 in chamber.

*Remington*

### B. Repair Inquiry

|               |            |                                             |            |                            |
|---------------|------------|---------------------------------------------|------------|----------------------------|
| Repair Number | RE00092561 | Serial: C6348590 Model: M24 SWS Center Fire | Repairman: |                            |
| Verify Repair |            | Caliber: 7.62 NATO                          | Status     | Closed 2/7/2005 3:19:42 AM |

## Address Information

|           |                                                |           |                                     |
|-----------|------------------------------------------------|-----------|-------------------------------------|
| Customer  | <input checked="" type="radio"/> Received From | Return To | <input type="radio"/> Received From |
| Name      | DEF DIST DEPOT ANNISTON                        |           | DEF DIST DEPOT ANNISTON             |
| Address 1 |                                                |           |                                     |
| Address 2 |                                                | PO Box    |                                     |
| City      | ANNISTON                                       |           | ANNISTON                            |
| State     | AL                                             | Zip Code  | 362014199                           |
|           | Country                                        | US        |                                     |

|                     |          |          |                  |                    |
|---------------------|----------|----------|------------------|--------------------|
| Contact / Condition | Problems | Estimate | History / Status | Shipping / Billing |
|---------------------|----------|----------|------------------|--------------------|

| <p>Contact Information</p> <p>Phone: <input style="width: 90%;" type="text"/></p> <p>Fax: <input style="width: 90%;" type="text"/></p> <p>Email: <input style="width: 90%;" type="text"/></p> <p>Comments: <input style="width: 90%; height: 40px;" type="text"/></p> | <p>Received Condition</p> <p>Good <input style="width: 90%;" type="text"/></p> <p>Condition Notes: <input style="width: 90%; height: 40px;" type="text"/></p> <p>CSR Notes: <input style="width: 90%; height: 40px;" type="text"/></p> | <p>Accessories Received</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Code</th> <th style="width: 70%;">Desc</th> <th style="width: 20%;">Qty</th> </tr> </thead> <tbody> <tr> <td>A007</td> <td>With Stud</td> <td style="text-align: center;">3</td> </tr> <tr> <td>A010</td> <td>Hard Case</td> <td style="text-align: center;">1</td> </tr> <tr> <td>A017</td> <td>Scope Base</td> <td style="text-align: center;">1</td> </tr> <tr> <td>A026</td> <td>Scope</td> <td style="text-align: center;">1</td> </tr> <tr> <td>A057</td> <td>Frt and Rear Sgt Base</td> <td style="text-align: center;">1</td> </tr> </tbody> </table> | Code | Desc | Qty | A007 | With Stud | 3 | A010 | Hard Case | 1 | A017 | Scope Base | 1 | A026 | Scope | 1 | A057 | Frt and Rear Sgt Base | 1 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----|------|-----------|---|------|-----------|---|------|------------|---|------|-------|---|------|-----------------------|---|
| Code                                                                                                                                                                                                                                                                  | Desc                                                                                                                                                                                                                                   | Qty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |      |     |      |           |   |      |           |   |      |            |   |      |       |   |      |                       |   |
| A007                                                                                                                                                                                                                                                                  | With Stud                                                                                                                                                                                                                              | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |     |      |           |   |      |           |   |      |            |   |      |       |   |      |                       |   |
| A010                                                                                                                                                                                                                                                                  | Hard Case                                                                                                                                                                                                                              | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |     |      |           |   |      |           |   |      |            |   |      |       |   |      |                       |   |
| A017                                                                                                                                                                                                                                                                  | Scope Base                                                                                                                                                                                                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |     |      |           |   |      |           |   |      |            |   |      |       |   |      |                       |   |
| A026                                                                                                                                                                                                                                                                  | Scope                                                                                                                                                                                                                                  | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |     |      |           |   |      |           |   |      |            |   |      |       |   |      |                       |   |
| A057                                                                                                                                                                                                                                                                  | Frt and Rear Sgt Base                                                                                                                                                                                                                  | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |     |      |           |   |      |           |   |      |            |   |      |       |   |      |                       |   |

## Repair Search

Refresh

**Close**

Serial Number: C6348990

Model: M24 SWS



RE00092561

2.50 LBS (plus or minus 0.50 LBS)  
3.00 LBS (plus or minus 0.75 LBS)  
4.00 LBS (plus or minus 1.00 LBS)

DATE

TESTER

3-14-05

TRW

|         | 2.50 LBS<br>INITIAL | 2.50 LBS AFTER<br>50 CYCLES | FINAL TEST & TO RESET<br>2.50 LBS | COMMENTS |
|---------|---------------------|-----------------------------|-----------------------------------|----------|
| PULL #1 | 2.10                | 2.50                        | 2.62                              |          |
| PULL #2 | 2.42                | 2.68                        | 2.74                              |          |
| PULL #3 | 2.34                | 2.56                        | 2.45                              |          |
| PULL #4 | 2.17                | 2.58                        | 2.72                              |          |
| PULL #5 | 2.46                | 2.57                        | 2.59                              |          |
| TOTAL   | 11.49               | 12.89                       | 13.12                             |          |
| AVERAGE | 2.29                | 2.57                        | 2.62                              |          |

|         | 3.00 LBS<br>INITIAL | 3.00 LBS AFTER<br>20 CYCLES | COMMENTS |
|---------|---------------------|-----------------------------|----------|
| PULL #1 | 3.07                | 3.31                        |          |
| PULL #2 | 3.36                | 3.21                        |          |
| PULL #3 | 2.95                | 3.25                        |          |
| PULL #4 | 3.01                | 3.46                        |          |
| PULL #5 | 3.12                | 3.33                        |          |
| TOTAL   | 15.51               | 16.56                       |          |
| AVERAGE | 3.10                | 3.31                        |          |

|         | 4.00 LBS<br>INITIAL | 4.00 LBS AFTER<br>20 CYCLES | MAX SETTING GREATER<br>THAN 4 LBS | RESET TO 4 LBS FOR<br>TARGET & ACCURACY |
|---------|---------------------|-----------------------------|-----------------------------------|-----------------------------------------|
| PULL #1 | 4.43                | 4.16                        |                                   | 4.29                                    |
| PULL #2 | 4.45                | 4.27                        |                                   | 4.04                                    |
| PULL #3 | 4.60                | 4.45                        |                                   | 4.26                                    |
| PULL #4 | 4.40                | 4.16                        |                                   | 4.34                                    |
| PULL #5 | 4.06                | 4.39                        |                                   | 4.51                                    |
| TOTAL   | 21.94               | 21.43                       |                                   | 21.44                                   |
| AVERAGE | 4.38                | 4.28                        |                                   | 4.28                                    |

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6348990.\_\_\_0  
FILE DATE AND TIME: 04/18/2005 08:26

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

|                                                             |        |
|-------------------------------------------------------------|--------|
| The Average X Centroid of the Five Target Set:              | 0.028  |
| The Average Y Centroid of the Five Target Set:              | -0.052 |
| The Average Point of Impact of the Five Target Set:         | 0.059  |
| The Average Mean Radius of the Five Target Set:             | 0.888  |
| The Distance from POA to Centroid Target #1:                | 0.190  |
| The Distance from Centroid Target #2 to Centroid Target #1: | 0.506  |
| The Distance from Centroid Target #3 to Centroid Target #1: | 0.345  |
| The Distance from Centroid Target #4 to Centroid Target #1: | 0.179  |
| The Distance from Centroid Target #5 to Centroid Target #1: | 0.133  |

**BARBER - M24 0043350**

SERIAL NUMBER: C6348990. 0

TARGET NUMBER: 1

FILE DATE: 04/18/2005

FILE TIME: 08:26

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 1.442  | -0.377 |
| 2:     | 0.740  | -0.118 |
| 3:     | 0.879  | -0.124 |
| 4:     | 0.335  | -0.504 |
| 5:     | -0.110 | -0.377 |
| 6:     | -0.202 | -0.130 |
| 7:     | -0.474 | -0.357 |
| 8:     | -0.816 | 0.637  |
| 9:     | -0.709 | 1.142  |
| 10:    | 0.610  | 1.057  |

X CENTROID: 0.170

Y CENTROID: 0.085

POA TO CENTROID: 0.190

HORZ SPREAD: 2.258

VERT SPREAD: 1.646

GROUP SPREAD: 2.633

MIN RADIUS: 0.429

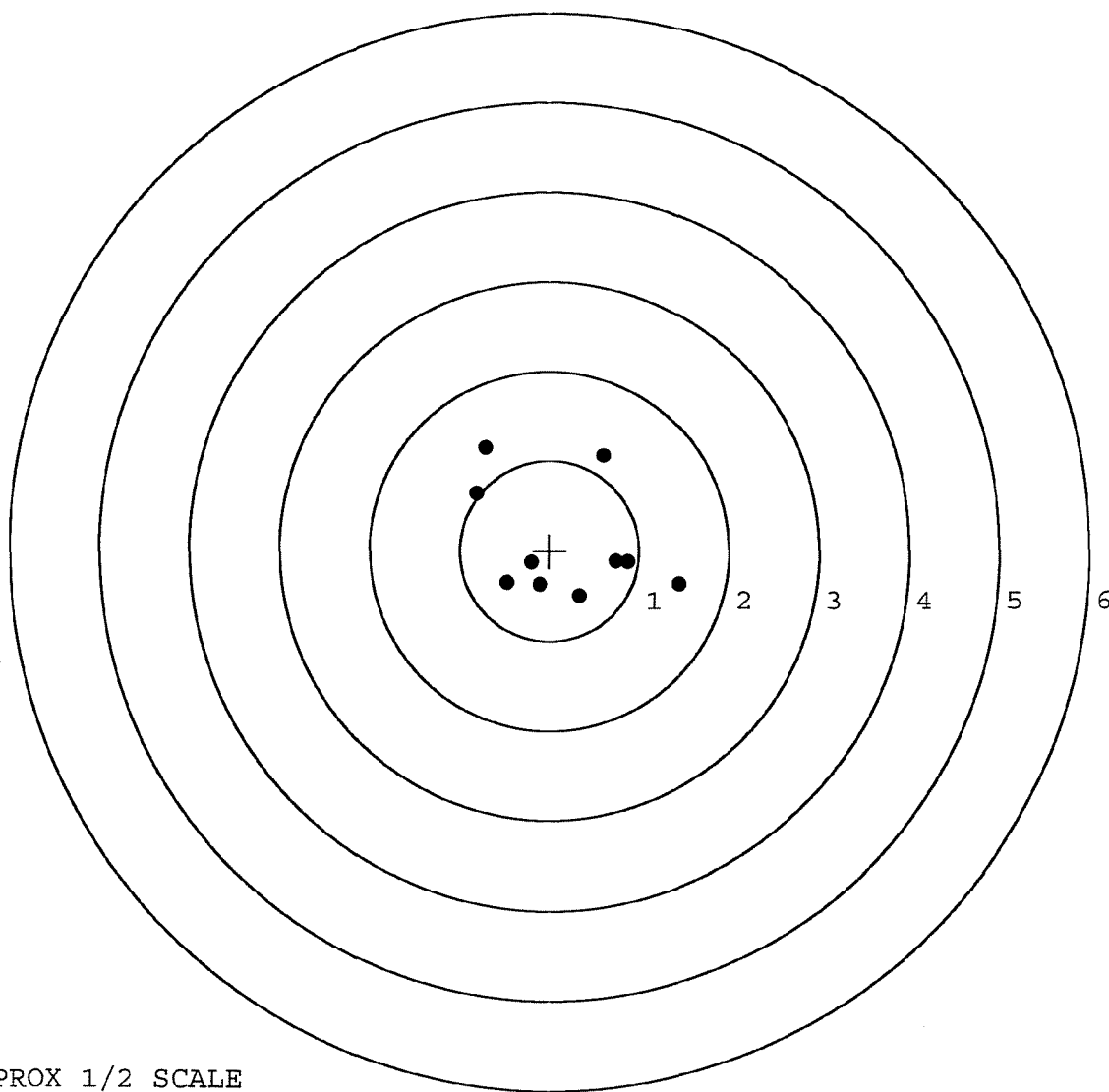
MAX RADIUS: 1.374

MEAN RADIUS: 0.863

# IN 1 IN DIAMETER: 1

# IN 2 IN DIAMETER: 6

# in 3 IN DIAMETER: 10



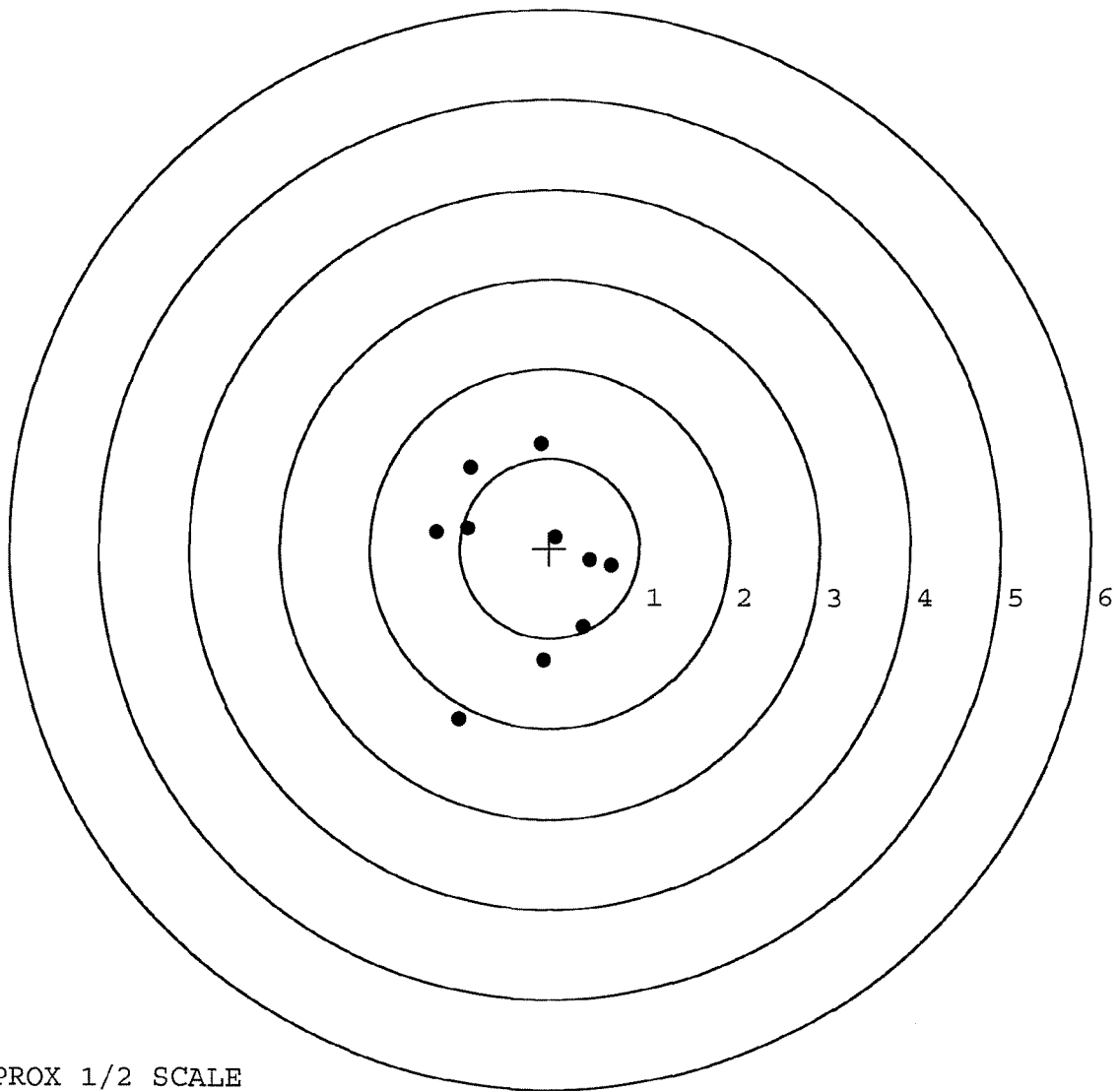
TARGET APPROX 1/2 SCALE

**BARBER - M24 0043351**

SERIAL NUMBER: C6348990. \_\_0  
 TARGET NUMBER: 2  
 FILE DATE: 04/18/2005  
 FILE TIME: 08:26

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 0.689  | -0.198 |
| 2:     | 0.447  | -0.132 |
| 3:     | 0.071  | 0.133  |
| 4:     | -0.916 | 0.221  |
| 5:     | -1.260 | 0.184  |
| 6:     | -0.883 | 0.898  |
| 7:     | -0.094 | 1.165  |
| 8:     | -0.070 | -1.249 |
| 9:     | 0.378  | -0.879 |
| 10:    | -1.007 | -1.901 |

X CENTROID: -0.265  
 Y CENTROID: -0.176  
 POA TO CENTROID: 0.318  
 HORZ SPREAD: 1.949  
 VERT SPREAD: 3.066  
 GROUP SPREAD: 3.199  
 MIN RADIUS: 0.456  
 MAX RADIUS: 1.878  
 MEAN RADIUS: 1.046  
 # IN 1 IN DIAMETER: 1  
 # IN 2 IN DIAMETER: 5  
 # in 3 IN DIAMETER: 9



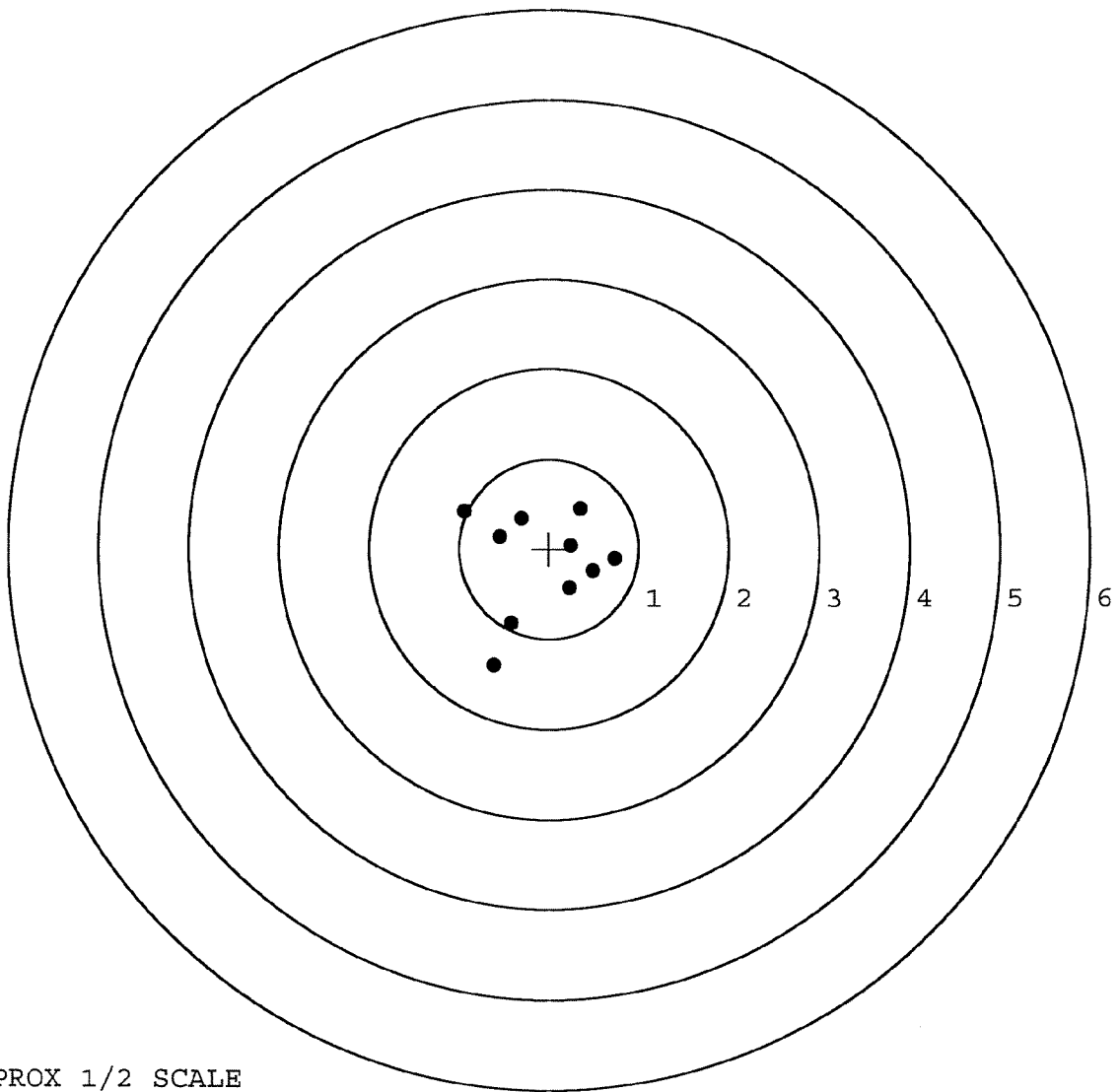
TARGET APPROX 1/2 SCALE

**BARBER - M24 0043352**

SERIAL NUMBER: C6348990. 0  
TARGET NUMBER: 3  
FILE DATE: 04/18/2005  
FILE TIME: 08:26

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 0.735  | -0.114 |
| 2:     | 0.489  | -0.252 |
| 3:     | 0.227  | -0.439 |
| 4:     | 0.241  | 0.039  |
| 5:     | 0.352  | 0.453  |
| 6:     | -0.312 | 0.341  |
| 7:     | -0.553 | 0.139  |
| 8:     | -0.942 | 0.426  |
| 9:     | -0.424 | -0.827 |
| 10:    | -0.618 | -1.296 |

X CENTROID: -0.081  
Y CENTROID: -0.153  
POA TO CENTROID: 0.173  
HORZ SPREAD: 1.677  
VERT SPREAD: 1.749  
GROUP SPREAD: 2.000  
MIN RADIUS: 0.374  
MAX RADIUS: 1.263  
MEAN RADIUS: 0.709  
# IN 1 IN DIAMETER: 2  
# IN 2 IN DIAMETER: 8  
# in 3 IN DIAMETER: 10



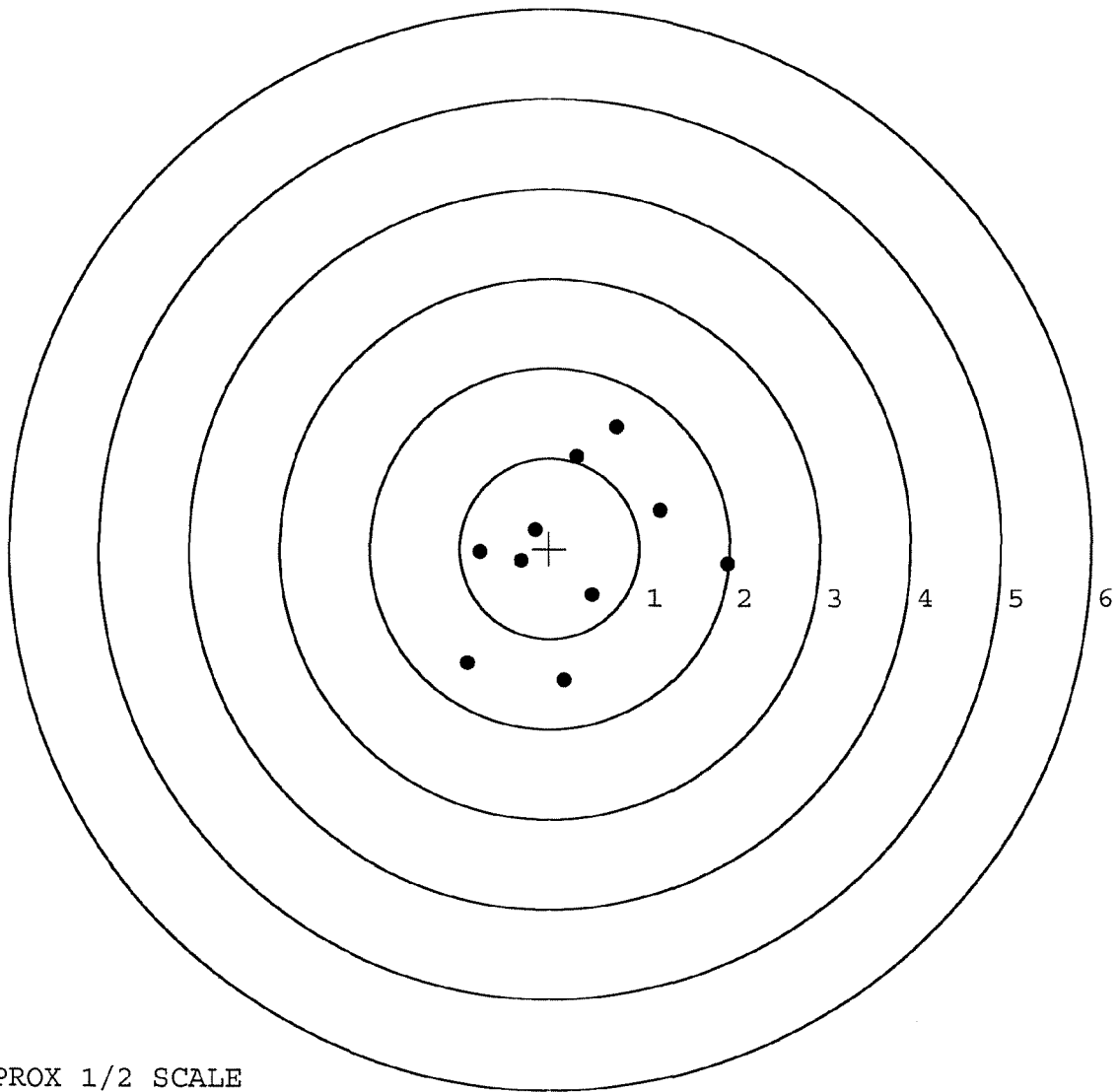
TARGET APPROX 1/2 SCALE

**BARBER - M24 0043353**

SERIAL NUMBER: C6348990. \_\_0  
 TARGET NUMBER: 4  
 FILE DATE: 04/18/2005  
 FILE TIME: 08:26

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 0.166  | -1.463 |
| 2:     | 0.474  | -0.519 |
| 3:     | -0.316 | -0.137 |
| 4:     | -0.162 | 0.209  |
| 5:     | -0.780 | -0.040 |
| 6:     | -0.919 | -1.269 |
| 7:     | 1.974  | -0.177 |
| 8:     | 1.221  | 0.423  |
| 9:     | 0.308  | 1.016  |
| 10:    | 0.753  | 1.335  |

X CENTROID: 0.272  
 Y CENTROID: -0.062  
 POA TO CENTROID: 0.279  
 HORZ SPREAD: 2.893  
 VERT SPREAD: 2.798  
 GROUP SPREAD: 3.092  
 MIN RADIUS: 0.500  
 MAX RADIUS: 1.706  
 MEAN RADIUS: 1.108  
 # IN 1 IN DIAMETER: 1  
 # IN 2 IN DIAMETER: 3  
 # in 3 IN DIAMETER: 8



TARGET APPROX 1/2 SCALE

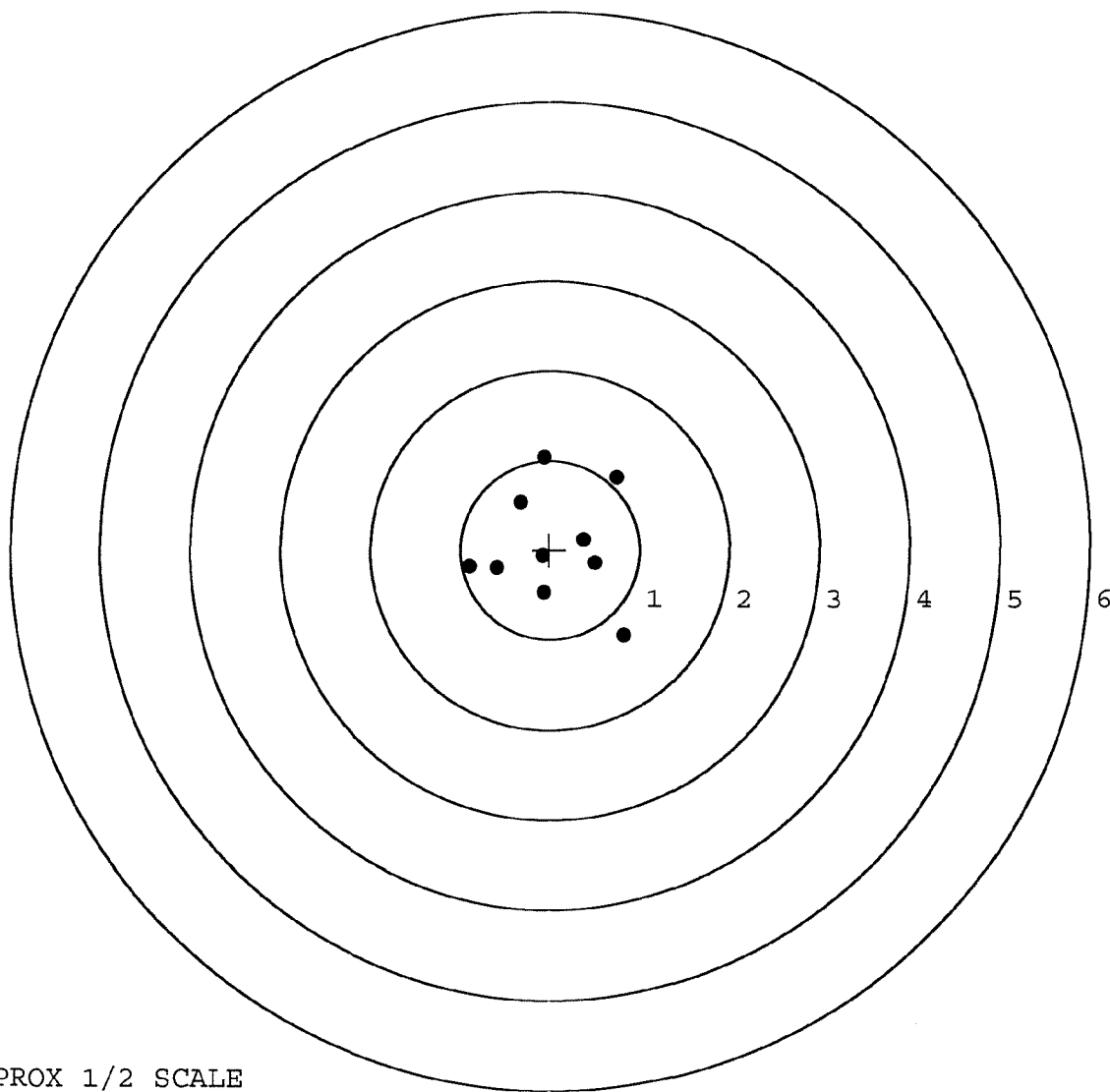


**BARBER - M24 0043354**

SERIAL NUMBER: C6348990. \_\_0  
 TARGET NUMBER: 5  
 FILE DATE: 04/18/2005  
 FILE TIME: 08:26

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 0.830  | -0.962 |
| 2:     | 0.509  | -0.150 |
| 3:     | 0.375  | 0.117  |
| 4:     | -0.062 | -0.483 |
| 5:     | -0.079 | -0.069 |
| 6:     | -0.592 | -0.202 |
| 7:     | -0.905 | -0.191 |
| 8:     | -0.329 | 0.534  |
| 9:     | 0.750  | 0.811  |
| 10:    | -0.063 | 1.034  |

X CENTROID: 0.043  
 Y CENTROID: 0.044  
 POA TO CENTROID: 0.062  
 HORZ SPREAD: 1.735  
 VERT SPREAD: 1.996  
 GROUP SPREAD: 2.187  
 MIN RADIUS: 0.167  
 MAX RADIUS: 1.277  
 MEAN RADIUS: 0.714  
 # IN 1 IN DIAMETER: 2  
 # IN 2 IN DIAMETER: 8  
 # in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

|                     |                    |                     |         |
|---------------------|--------------------|---------------------|---------|
| R & E NUMBER        | 92561              |                     |         |
| SERIAL NUMBER       | C6348990           |                     |         |
| LOG-IN DATE         | 2-7-05             |                     |         |
| INSPECT AND VERIFY: |                    |                     |         |
| OPERATION #         | OPERATION NAME     | DATE                | INITIAL |
| 550                 | DIS-ASSEMBLE GUN   | 3-15-05             | RTZ     |
| 560 A               | RE-BARREL          | 3-17-05             | RTZ     |
| B                   | DRILL AND TAP      | 3-21-05             | TRW     |
| 575                 | ASSEMBLE           | 3-18-05             | RTZ     |
| 600                 | PROOF              | 3-21-05             | AC      |
| 605                 | CHECK HEADSPACE    | 3-21-05             | AC      |
| 610                 | DIS-ASSEMBLE GUN   | 3-21-05             | RTZ     |
| 612                 | MAGNAFLUX          | 3-21-05             | AC      |
| 615                 | ROLLMARK CALIBER   | 3-23-05             | CW      |
| 618                 | ROTO-BLAST         | 3/29                | SW      |
| 620                 | APPLY COATINGS     | 4/5                 | HP      |
| 625 A               | FINAL ASSEMBLY     | 4-18-05             | RTZ     |
| B                   | TRIGGER PULL TEST  | 4-22-05             | TRW     |
| C                   | SAFETY "ON" FORCE  | 4-22-05             | AE      |
| D                   | SAFETY "OFF" FORCE | 4-22-05             | AC      |
| E                   | FIRING PIN INDENT  | 4-22-05             | AC      |
| 640                 | TARGET             | 4-18-05             | AC      |
| 655                 | FINAL INSPECT      | 4-22-05             | AC      |
| 660                 | PACK               | 4-23-05             | RTZ     |
|                     |                    | SHIP DATE           |         |
|                     |                    | QAR INSPECTION DATE |         |

BARBER - M24 0043356

|                                                                                                     |  |                                            |                                                                                           |
|-----------------------------------------------------------------------------------------------------|--|--------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>Remington</b>                                                                                    |  | <b>DUPONT</b><br>REG. U.S. PAT. & TM. OFF. | VERY IMPORTANT:<br>Instruction Book<br>enclosed to assure<br>safe use of this<br>firearm. |
| <b>MODEL 700™ M24</b>                                                                               |  | <b>SERIAL NO.</b><br>C6348990              | <b>ORDER NO.</b><br><b>5716</b>                                                           |
| MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat & Tm. Off, Marca Registrada Marque Deposee.                |  | 01                                         |                                                                                           |
| <br>5716 C6348990 |  |                                            |                                                                                           |

**UPC**



0 47700 25716 7

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER  
KINZER V. REMINGTON

BARBER - M24 0043356

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6348990

| OP. #        | OP. NAME                                                       | READINGS | DATE    | INIT |
|--------------|----------------------------------------------------------------|----------|---------|------|
| 575 &<br>580 | Assemble Action<br>and Stock                                   | 1 30     | 90      | RW   |
| 600          | Proof                                                          | 1 30     | 90      | A    |
| 607          | Check Headspace                                                | 1 30     | 90      | A    |
| 610          | Dis-assemble Gun                                               | 1 30     | 90      | RW   |
| 612          | Magnaflux Barrel<br>Action                                     | 2-5-90   |         | KEB  |
|              | Magnaflux Bolt                                                 | 2-5-90   |         |      |
| 615          | Rollmark Caliber                                               | 2-5-90   |         | GS   |
| 617          | Drill and Tap Sight Holes                                      | 2-5-90   |         | LB   |
| 618          | Polish Barrel RB                                               | 2-5-90   |         | WB   |
| 620          | Apply Coatings<br>(Barrel Action)                              |          | 2-17-90 | JA   |
|              | Apply Coating (Bolt)                                           |          |         |      |
| 625          | Final Assembly<br>A) Clean inside of<br>Bolt Assembly          |          | 2/19/90 | WB   |
|              | B) Inspect Rear Firing<br>Pin Hole for Chamfer<br>in Bolt Head |          | 2/19/90 | WB   |
|              | C) Inspect Ejector Hole<br>for Chamfer                         |          | 4/18/90 | RW   |
|              | D) Oil Firing Pin Ass'y                                        |          | 4/18/90 | RW   |
|              | E) Adjust Trigger Pull to<br>Min Setting and Stake             |          | 4/23/90 | gbl  |

**BARBER - M24 0043358**

| op. #        | OP. NAME                                                    | READINGS |      |      |      |      | DATE    | INIT |
|--------------|-------------------------------------------------------------|----------|------|------|------|------|---------|------|
| 625<br>cont. | F) Safety On Force                                          | 4        | 4    | 4    |      |      | 4/24/90 | JL   |
|              | G) Safety Off Force                                         | 2        | 2    | 2    |      |      | 4/24/90 | JL   |
|              | H) Trigger Pull Test & Retainability                        |          |      |      |      |      | 4/23/90 | JL   |
|              | I) Firing Pin Indent                                        | .022     | .023 | .023 |      |      | 4/24/90 | JL   |
|              | J) Assemble Stock                                           |          |      |      |      |      | 4/24/90 | RW   |
|              | K) Assemble Swivel Studs                                    |          |      |      |      |      | 4/30/90 | WB   |
|              | L) Attach Front and Rear Sight Assemblies                   |          |      |      |      |      | 4/24/90 | RW   |
|              | M) Iron Sight Alignment                                     |          |      |      |      |      | 4/24/90 | RW   |
|              | N) Detach Front & Rear Sights & place in numbered container |          |      |      |      |      | 4/24/90 | RW   |
|              | O) Attach Scope to Rifle                                    |          |      |      |      |      | 4/24/90 | WB   |
|              | P) Detach & Attach Scope 20 Times                           |          |      |      |      |      | 4/24/90 | WB   |
| 640          | Gallery Target & Test                                       |          |      |      |      |      | 4-25-90 | DH   |
|              | A) Time                                                     |          |      |      |      |      | 4-25-90 | DH   |
|              | B) Malfunctions                                             |          |      |      |      |      | 4-25-90 | DH   |
|              | C) Pierced Primers                                          |          |      |      |      |      | 4-25-90 | DH   |
|              | D) Optical Clarity of Scope                                 |          |      |      |      |      | 4-25-90 | DH   |
| 645          | Inspect for Live Ammo                                       |          |      |      |      |      | 4-25-90 | DH   |
| 655          | Final Inspection                                            |          |      |      |      |      | 4/30/90 | WB   |
|              | A) Headspace                                                |          |      |      |      |      |         |      |
|              | B) Trigger Pull                                             | 2.52     | 2.52 | 2.50 | 2.52 | 2.52 | 4/26/90 | WB   |
|              | C) Function                                                 |          |      |      |      |      | 4/30/90 | WB   |
| 660          | Pack                                                        |          |      |      |      |      | 6-14-90 | DH   |

AVERAGE PULL FORCE BETWEEN  
INITIAL & CYCLE TESTS

2.50# ± .50#  
3.00# ± .75#  
4.00# ± 1.00#

SERIAL NO. C6348990DATE 4/23/90TESTER JH

|         | 2.50#<br>INITIAL | 2.50# AFTER<br>50 CYCLES | FINAL TEST &<br>TO RESET 2.50# |      | COMMENTS                                                               |
|---------|------------------|--------------------------|--------------------------------|------|------------------------------------------------------------------------|
| PULL #1 | 2.16             | 2.25                     | 2.42                           | 2.52 | MIN. SETTING,<br>NO AVG. OF 5<br>READINGS ACCEPT-<br>ABLE LESS THAN 2# |
| PULL #2 | 2.32             | 2.04                     | 2.51                           | 2.52 |                                                                        |
| PULL #3 | 2.29             | 2.42                     | 2.50                           | 2.52 |                                                                        |
| PULL #4 | 2.33             | 2.53                     | 2.40                           | 2.50 |                                                                        |
| PULL #5 | 2.31             | 2.38                     | 2.43                           | 2.52 |                                                                        |
| TOTAL   | 11.41            | 11.62                    | 12.26                          |      |                                                                        |
| AVG.    | 2.282            | 2.324                    | 2.452                          |      |                                                                        |

|         | 3.00#<br>INITIAL | 3.00# AFTER<br>20 CYCLES |  | COMMENTS |
|---------|------------------|--------------------------|--|----------|
| PULL #1 | 3.44             | 3.36                     |  |          |
| PULL #2 | 3.46             | 3.40                     |  |          |
| PULL #3 | 3.40             | 3.35                     |  |          |
| PULL #4 | 3.43             | 3.41                     |  |          |
| PULL #5 | 3.36             | 3.42                     |  |          |
| TOTAL   | 17.06            | 16.94                    |  |          |
| AVG.    | 3.412            | 3.388                    |  |          |

|         | 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 | 4.53             | 4.46                     |                                | 4.22                                 |
| PULL #2 | 4.45             | 4.40                     |                                | 4.22                                 |
| PULL #3 | 4.46             | 4.48                     |                                | 4.26                                 |
| PULL #4 | 4.51             | 4.47                     |                                | 4.26                                 |
| PULL #5 | 4.40             | 4.42                     |                                | 4.16                                 |
| TOTAL   | 22.35            | 22.23                    |                                | 21.12                                |
| AVG.    | 4.47             | 4.446                    |                                | 4.224                                |

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # C6348990  
25 Apr 1990

CENTROIDAL DISTANCES

|      |   |         |
|------|---|---------|
| 0 TO | 1 | .380802 |
| 1 TO | 2 | .689386 |
| 1 TO | 3 | .204002 |
| 1 TO | 4 | .442005 |
| 1 TO | 5 | .474899 |

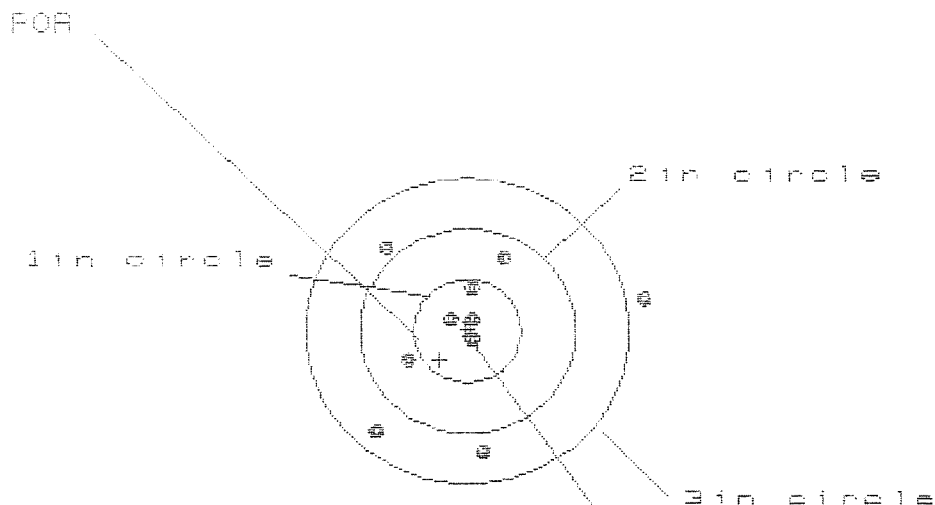
$z_{45}^{13}$  <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .2282  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0428  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .232179  
THE AMR FOR THIS RIFLE IS: .8156

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## CENTERFIRE PATTERNS # 1



# OF SHOTS = 10

# IN CIR

1in = 4

2in = 6

3in = 8

HE = 2.468

VE = 1.959

GS = 2.796

CENTROID #

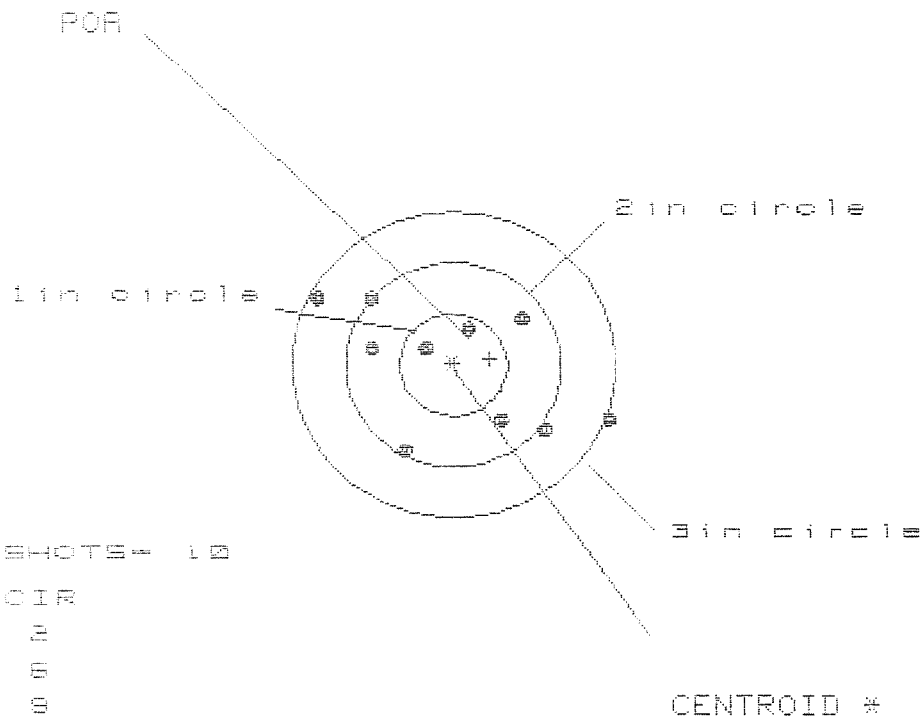
| PATTERN #                   | 1      | 2      | 3      |
|-----------------------------|--------|--------|--------|
| SHOTS (BEST OF)             | 10     | 9      | 8      |
| MAXIMUM X                   | 1.608  | .550   | .465   |
| MINIMUM X                   | -.860  | -.682  | -.651  |
| MAXIMUM Y                   | .781   | .816   | .696   |
| MINIMUM Y                   | -1.178 | -1.143 | -1.263 |
| CENTROID X                  | .257   | .079   | .164   |
| CENTROID Y                  | .281   | .246   | .366   |
| FOR TO CENTROID (in.)       | .381   | .258   | .401   |
| MIN RADIUS                  | .107   | .137   | .095   |
| MEAN RADIUS                 | .758   | .666   | .562   |
| MAX RADIUS                  | 1.639  | 1.200  | 1.294  |
| HORIZONTAL SPREAD           | 2.468  | 1.232  | 1.116  |
| VERTICAL SPREAD             | 1.959  | 1.959  | 1.959  |
| EXTREME SPREAD              | 2.796  | 2.169  | 2.169  |
| NUMBER IN ONE INCH CIRCLE   | = 4    |        |        |
| NUMBER IN TWO INCH CIRCLE   | = 6    |        |        |
| NUMBER IN THREE INCH CIRCLE | = 9    |        |        |



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## CENTERFIRE PATTERNS # 2



# OF SHOTS= 10

# IN CIR

1 in = 2

2 in = 6

3 in = 9

HS= 2.653

VS= 1.499

GS= 2.929

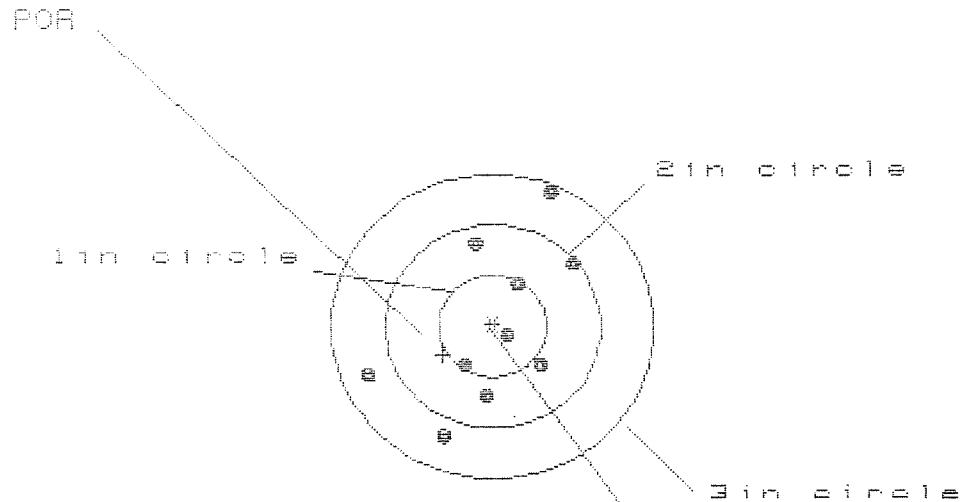
CENTROID \*

| PATTERN #                     | 1      | 2      | 3     |
|-------------------------------|--------|--------|-------|
| SHOTS (BEST OF)               | 10     | 9      | 8     |
| MAXIMUM X                     | 1.432  | .971   | .839  |
| MINIMUM X                     | -1.221 | -1.062 | -.733 |
| MAXIMUM Y                     | .684   | .622   | .700  |
| MINIMUM Y                     | -.815  | -.877  | -.799 |
| CENTROID X                    | -.341  | -.500  | -.368 |
| CENTROID Y                    | -.062  | -.000  | -.078 |
| POR TO CENTROID in.           | .347   | .500   | .376  |
| MIN RADIUS                    | .338   | .171   | .324  |
| MEAN RADIUS                   | .883   | .788   | .737  |
| MAX RADIUS                    | 1.537  | 1.230  | 1.023 |
| HORIZONTAL SPREAD             | 2.653  | 2.033  | 1.572 |
| VERTICAL SPREAD               | 1.499  | 1.499  | 1.499 |
| EXTREME SPREAD                | 2.929  | 2.404  | 2.025 |
| NUMBER IN ONE INCH CIRCLE =   |        | 2      |       |
| NUMBER IN TWO INCH CIRCLE =   |        | 6      |       |
| NUMBER IN THREE INCH CIRCLE = |        | 9      |       |

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## CENTERFIRE PATTERNS # 3



# OF SHOTS = 10

# IN CIR

1in = 3

2in = 7

3in = 10

HE = 1.945

VE = 2.412

GE = 2.593

CENTROID \*

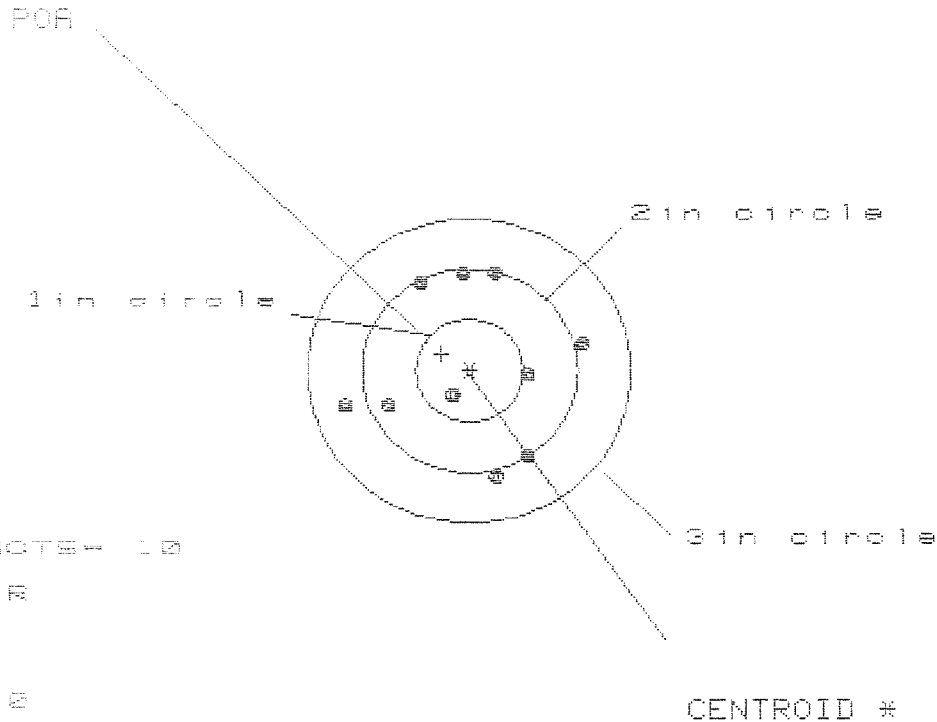
| PATTERN #                   | 1      | 2      | 3     |
|-----------------------------|--------|--------|-------|
| SHOTS (BEST OF)             | 10     | 9      | 8     |
| MAXIMUM X                   | .741   | .797   | .654  |
| MINIMUM X                   | -1.204 | -1.148 | -.531 |
| MAXIMUM Y                   | 1.350  | .931   | .889  |
| MINIMUM Y                   | -1.062 | -.912  | -.954 |
| CENTROID X                  | .461   | .405   | .548  |
| CENTROID Y                  | .280   | .130   | .172  |
| POR TO CENTROID in.         | .539   | .425   | .574  |
| MIN RADIUS                  | .177   | .197   | .050  |
| MEAN RADIUS                 | .809   | .722   | .638  |
| MAX RADIUS                  | 1.443  | 1.197  | 1.092 |
| HORIZONTAL SPREAD           | 1.945  | 1.945  | 1.185 |
| VERTICAL SPREAD             | 2.412  | 1.843  | 1.843 |
| EXTREME SPREAD              | 2.593  | 2.252  | 2.080 |
| NUMBER IN ONE INCH CIRCLE   | =      | 3      |       |
| NUMBER IN TWO INCH CIRCLE   | =      | 7      |       |
| NUMBER IN THREE INCH CIRCLE | =      | 10     |       |

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## CENTERFIRE PATTERNS

# 4



# OF SHOTS= 10

# IN CIR

1in = 1

2in = 6

3in = 10

HE= 2.200

VS= 2.019

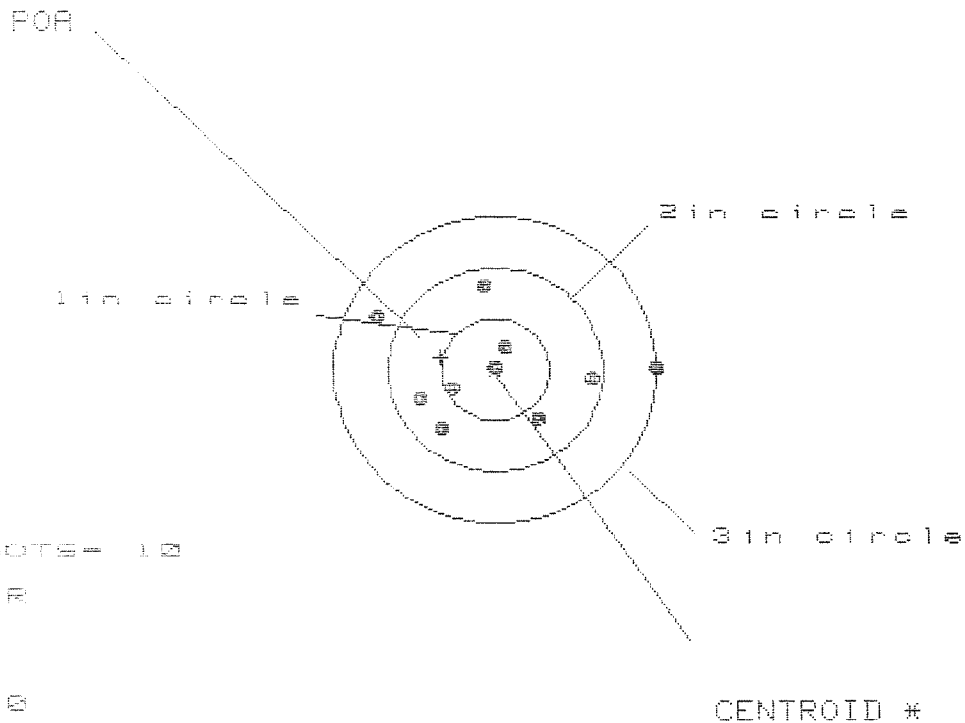
GS= 2.291

| PATTERN #                   | 1      | 4      | 9      | 8 |
|-----------------------------|--------|--------|--------|---|
| SHOTS (BEST OF)             | 10     |        |        |   |
| MAXIMUM X                   | 1.010  | .877   | .896   |   |
| MINIMUM X                   | -1.198 | -.849  | -.830  |   |
| MAXIMUM Y                   | .939   | .896   | .756   |   |
| MINIMUM Y                   | -1.080 | -1.123 | -1.067 |   |
| CENTROID X                  | .259   | .392   | .373   |   |
| CENTROID Y                  | -.161  | -.118  | .022   |   |
| POA TO CENTROID in.         | .305   | .409   | .374   |   |
| MIN RADIUS                  | .252   | .370   | .467   |   |
| MEAN RADIUS                 | .892   | .844   | .803   |   |
| MAX RADIUS                  | 1.257  | 1.132  | 1.136  |   |
| HORIZONTAL SPREAD           | 2.208  | 1.726  | 1.726  |   |
| VERTICAL SPREAD             | 2.019  | 2.019  | 1.823  |   |
| EXTREME SPREAD              | 2.291  | 2.093  | 2.009  |   |
| NUMBER IN ONE INCH CIRCLE   | =      | 1      |        |   |
| NUMBER IN TWO INCH CIRCLE   | =      | 6      |        |   |
| NUMBER IN THREE INCH CIRCLE | =      | 10     |        |   |

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## CENTERFIRE PATTERNS # 5



# OF SHOTS= 10

# IN CIR

1in = 3

2in = 8

3in = 10

HS= 2.581

VS= 1.434

GS= 2.634

| PATTERN #                   | 1      | 5     | 9     | 8 |
|-----------------------------|--------|-------|-------|---|
| SHOTS (BEST OF)             | 10     | 9     | 8     |   |
| MAXIMUM X                   | 1.480  | 1.066 | .949  |   |
| MINIMUM X                   | -1.101 | -.937 | -.650 |   |
| MAXIMUM Y                   | .818   | .818  | .884  |   |
| MINIMUM Y                   | -.616  | -.616 | -.550 |   |
| CENTROID X                  | .505   | .341  | .458  |   |
| CENTROID Y                  | -.124  | -.124 | -.190 |   |
| POA TO CENTROID (in.)       | .520   | .363  | .496  |   |
| MIN RADIUS                  | .062   | .133  | .114  |   |
| MEAN RADIUS                 | .736   | .643  | .583  |   |
| MAX RADIUS                  | 1.480  | 1.076 | .949  |   |
| HORIZONTAL SPREAD           | 2.581  | 2.003 | 1.599 |   |
| VERTICAL SPREAD             | 1.434  | 1.434 | 1.434 |   |
| EXTREME SPREAD              | 2.634  | 2.088 | 1.615 |   |
| NUMBER IN ONE INCH CIRCLE   | =      | 3     |       |   |
| NUMBER IN TWO INCH CIRCLE   | =      | 8     |       |   |
| NUMBER IN THREE INCH CIRCLE | =      | 10    |       |   |