

4

C6498843

77

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

\*Includes 1 in chamber.

*Remington*

| Repair Number: <b>RE00074630</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Serial: C6498843 Model 700 Center Fire Caliber: 7<br>62 NATO M24 SWS Produced: 06/19/1990 | Repairman:                                                                                             | Status: Closed 12/29/2003 10:37:53 AM |                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                    |            |   |      |           |   |      |             |   |      |       |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|--------------------|------------|---|------|-----------|---|------|-------------|---|------|-------|---|
| <b>Address Information</b><br>Customer: <input checked="" type="radio"/> Received From Return To: <input type="radio"/> Received From<br>Name: <b>HHC 3/327</b> <b>HHC 3/327</b><br>Address 1: <input type="text"/> <input type="text"/><br>Address 2: <input type="text"/> PO Box: <input type="text"/><br>City: <b>FORT CAMPBELL</b> <b>FORT CAMPBELL</b><br>State: <b>KY</b> Zip Code: <b>42223</b> Country: <b>US</b> State: <b>KY</b> Zip Code: <b>42223</b> Country: <b>US</b><br>FFL: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> |                                                                                           |                                                                                                        |                                       |                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                    |            |   |      |           |   |      |             |   |      |       |   |
| <table border="1"> <tr> <td>Contact / Condition</td> <td>Problems</td> <td>Estimate</td> <td>History / Status</td> <td>Shipping / Billing</td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           |                                                                                                        |                                       | Contact / Condition                                                                                                                                                                                                                                                                                                                                                  | Problems | Estimate | History / Status | Shipping / Billing |            |   |      |           |   |      |             |   |      |       |   |
| Contact / Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Problems                                                                                  | Estimate                                                                                               | History / Status                      | Shipping / Billing                                                                                                                                                                                                                                                                                                                                                   |          |          |                  |                    |            |   |      |           |   |      |             |   |      |       |   |
| Contact Information<br>Phone: <input type="text"/><br>Fax: <input type="text"/><br>Email: <input type="text"/><br>Comments: <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                           | Received Condition<br>Fair<br>Condition Notes: <input type="text"/><br>CSR Notes: <input type="text"/> |                                       | Accessories Received<br><table border="1"> <thead> <tr> <th>Code</th> <th>Desc</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>A007</td> <td>With Studs</td> <td>3</td> </tr> <tr> <td>A010</td> <td>Hard Case</td> <td>1</td> </tr> <tr> <td>A017</td> <td>Scope Bases</td> <td>3</td> </tr> <tr> <td>A026</td> <td>Scope</td> <td>1</td> </tr> </tbody> </table> | Code     | Desc     | Qty              | A007               | With Studs | 3 | A010 | Hard Case | 1 | A017 | Scope Bases | 3 | A026 | Scope | 1 |
| Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Desc                                                                                      | Qty                                                                                                    |                                       |                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                    |            |   |      |           |   |      |             |   |      |       |   |
| A007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | With Studs                                                                                | 3                                                                                                      |                                       |                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                    |            |   |      |           |   |      |             |   |      |       |   |
| A010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Hard Case                                                                                 | 1                                                                                                      |                                       |                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                    |            |   |      |           |   |      |             |   |      |       |   |
| A017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Scope Bases                                                                               | 3                                                                                                      |                                       |                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                    |            |   |      |           |   |      |             |   |      |       |   |
| A026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Scope                                                                                     | 1                                                                                                      |                                       |                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                    |            |   |      |           |   |      |             |   |      |       |   |
| Repair Search                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           | Refresh                                                                                                |                                       | Close                                                                                                                                                                                                                                                                                                                                                                |          |          |                  |                    |            |   |      |           |   |      |             |   |      |       |   |

negleij

1/5/2004

9:08 AM

CAPS

NUM

INS

3000

start

Serial Number: **C6498843**Model: **700****RE00074630**

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6498843.\_\_\_0  
FILE DATE AND TIME: 01/23/2004 09:00

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

|                                                             |       |
|-------------------------------------------------------------|-------|
| The Average X Centroid of the Five Target Set:              | 0.090 |
| The Average Y Centroid of the Five Target Set:              | 0.139 |
| The Average Point of Impact of the Five Target Set:         | 0.166 |
| The Average Mean Radius of the Five Target Set:             | 0.495 |
| The Distance from POA to Centroid Target #1:                | 0.260 |
| The Distance from Centroid Target #2 to Centroid Target #1: | 0.186 |
| The Distance from Centroid Target #3 to Centroid Target #1: | 0.183 |
| The Distance from Centroid Target #4 to Centroid Target #1: | 0.077 |
| The Distance from Centroid Target #5 to Centroid Target #1: | 0.269 |

SERIAL NUMBER: C6498843. \_\_0

TARGET NUMBER: 1

FILE DATE: 01/23/2004

FILE TIME: 09:00

X CENTROID: 0.217

Y CENTROID: 0.143

POA TO CENTROID: 0.260

HORZ SPREAD: 1.757

VERT SPREAD: 1.673

GROUP SPREAD: 2.164

MIN RADIUS: 0.279

MAX RADIUS: 1.136

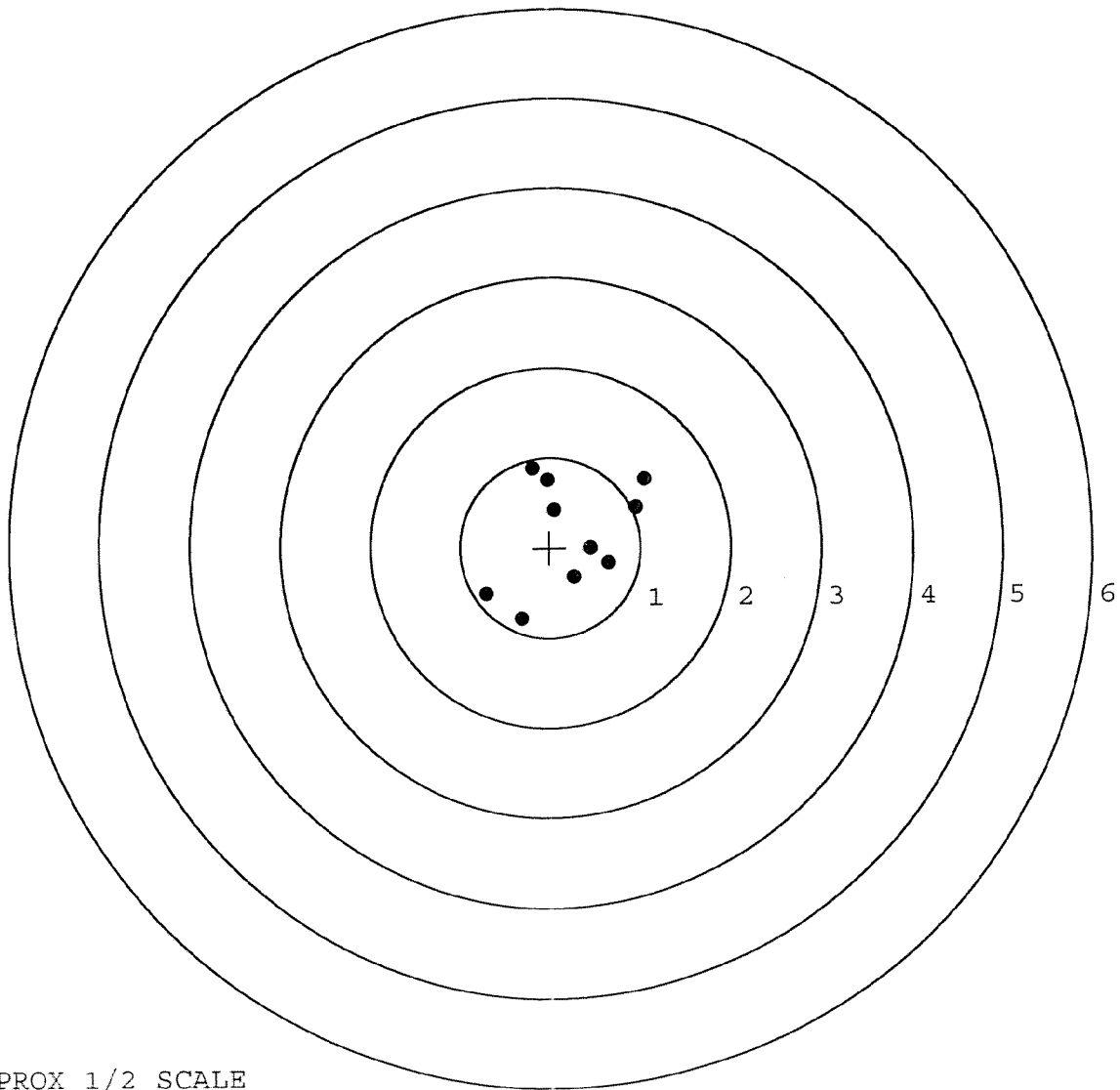
MEAN RADIUS: 0.714

# IN 1 IN DIAMETER: 3

# IN 2 IN DIAMETER: 7

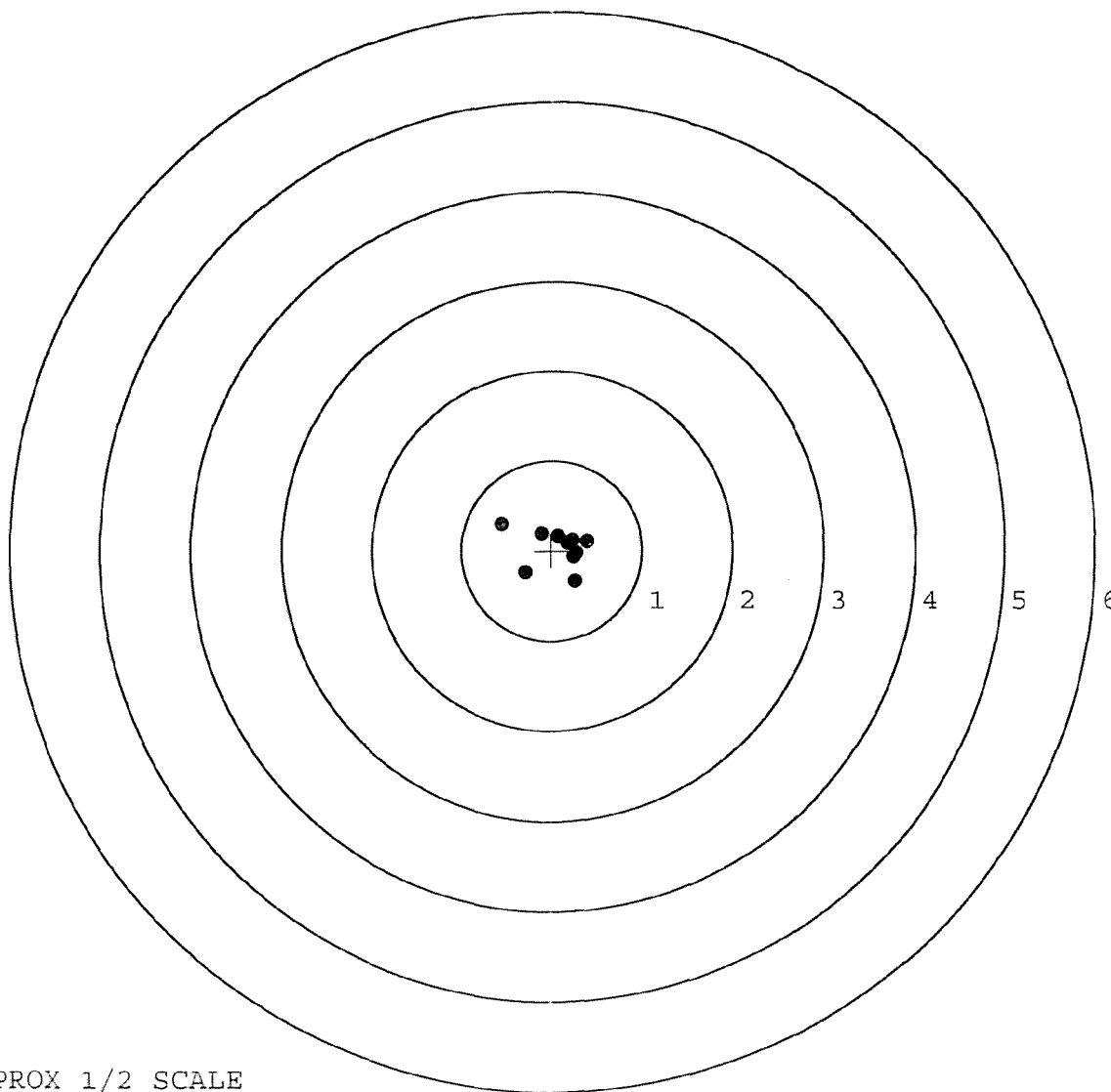
# in 3 IN DIAMETER: 10

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 1.044  | 0.754  |
| 2:     | 0.950  | 0.443  |
| 3:     | 0.452  | -0.007 |
| 4:     | 0.648  | -0.178 |
| 5:     | 0.270  | -0.333 |
| 6:     | -0.315 | -0.787 |
| 7:     | -0.713 | -0.509 |
| 8:     | 0.055  | 0.419  |
| 9:     | -0.025 | 0.747  |
| 10:    | -0.192 | 0.886  |



TARGET APPROX 1/2 SCALE

|                               |        |        |        |
|-------------------------------|--------|--------|--------|
| SERIAL NUMBER: C6498843. __ 0 | POINT# | X      | Y      |
| TARGET NUMBER: 2              | 1:     | -0.558 | 0.294  |
| FILE DATE: 01/23/2004         | 2:     | -0.292 | -0.243 |
| FILE TIME: 09:00              | 3:     | -0.107 | 0.189  |
|                               | 4:     | 0.261  | -0.344 |
| X CENTROID: 0.072             | 5:     | 0.252  | -0.067 |
| Y CENTROID: 0.028             | 6:     | 0.395  | 0.103  |
| POA TO CENTROID: 0.077        | 7:     | 0.184  | 0.089  |
| HORZ SPREAD: 0.953            | 8:     | 0.274  | -0.027 |
| VERT SPREAD: 0.638            | 9:     | 0.075  | 0.163  |
| GROUP SPREAD: 1.038           | 10:    | 0.234  | 0.118  |
| MIN RADIUS: 0.128             |        |        |        |
| MAX RADIUS: 0.684             |        |        |        |
| MEAN RADIUS: 0.299            |        |        |        |
| # IN 1 IN DIAMETER: 9         |        |        |        |
| # IN 2 IN DIAMETER: 10        |        |        |        |
| # in 3 IN DIAMETER: 10        |        |        |        |

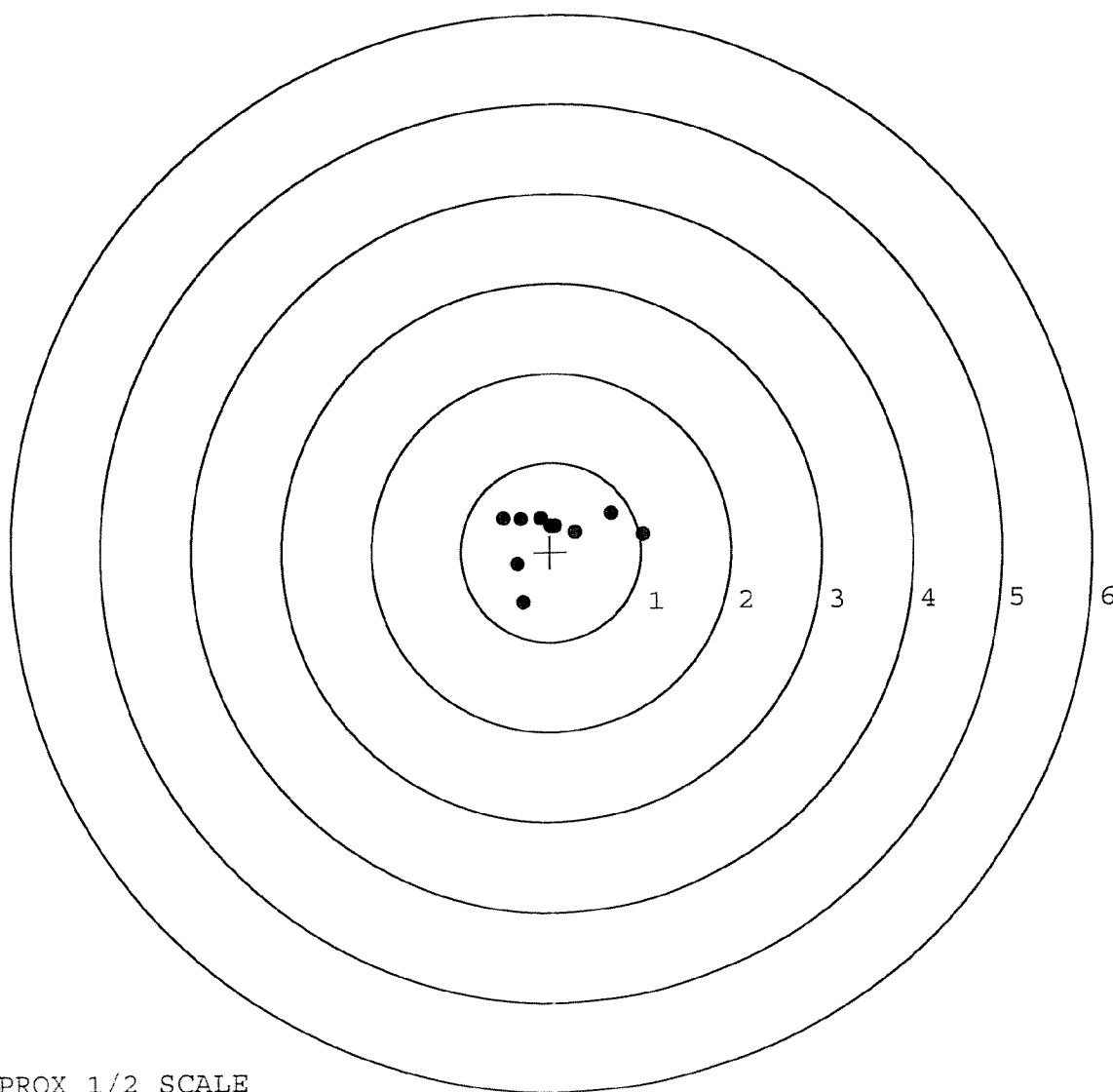


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498843. \_\_0  
 TARGET NUMBER: 3  
 FILE DATE: 01/23/2004  
 FILE TIME: 09:00

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 0.675  | 0.424  |
| 2:     | 1.025  | 0.188  |
| 3:     | -0.313 | -0.565 |
| 4:     | -0.368 | -0.138 |
| 5:     | -0.523 | 0.379  |
| 6:     | -0.331 | 0.372  |
| 7:     | -0.108 | 0.376  |
| 8:     | -0.004 | 0.288  |
| 9:     | 0.278  | 0.217  |
| 10:    | 0.054  | 0.292  |

X CENTROID: 0.038  
 Y CENTROID: 0.183  
 POA TO CENTROID: 0.187  
 HORZ SPREAD: 1.548  
 VERT SPREAD: 0.989  
 GROUP SPREAD: 1.560  
 MIN RADIUS: 0.110  
 MAX RADIUS: 0.987  
 MEAN RADIUS: 0.473  
 # IN 1 IN DIAMETER: 5  
 # IN 2 IN DIAMETER: 10  
 # in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498843. \_\_0

TARGET NUMBER: 4

FILE DATE: 01/23/2004

FILE TIME: 09:00

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | -0.334 | 0.212  |
| 2:     | -0.832 | 0.006  |
| 3:     | 0.470  | -0.491 |
| 4:     | 0.588  | -0.158 |
| 5:     | 0.376  | -0.071 |
| 6:     | 0.331  | 0.182  |
| 7:     | 0.415  | 0.344  |
| 8:     | 0.421  | 0.676  |
| 9:     | 0.253  | 0.679  |
| 10:    | 0.046  | 0.688  |

X CENTROID: 0.173

Y CENTROID: 0.207

POA TO CENTROID: 0.270

HORZ SPREAD: 1.420

VERT SPREAD: 1.179

GROUP SPREAD: 1.429

MIN RADIUS: 0.160

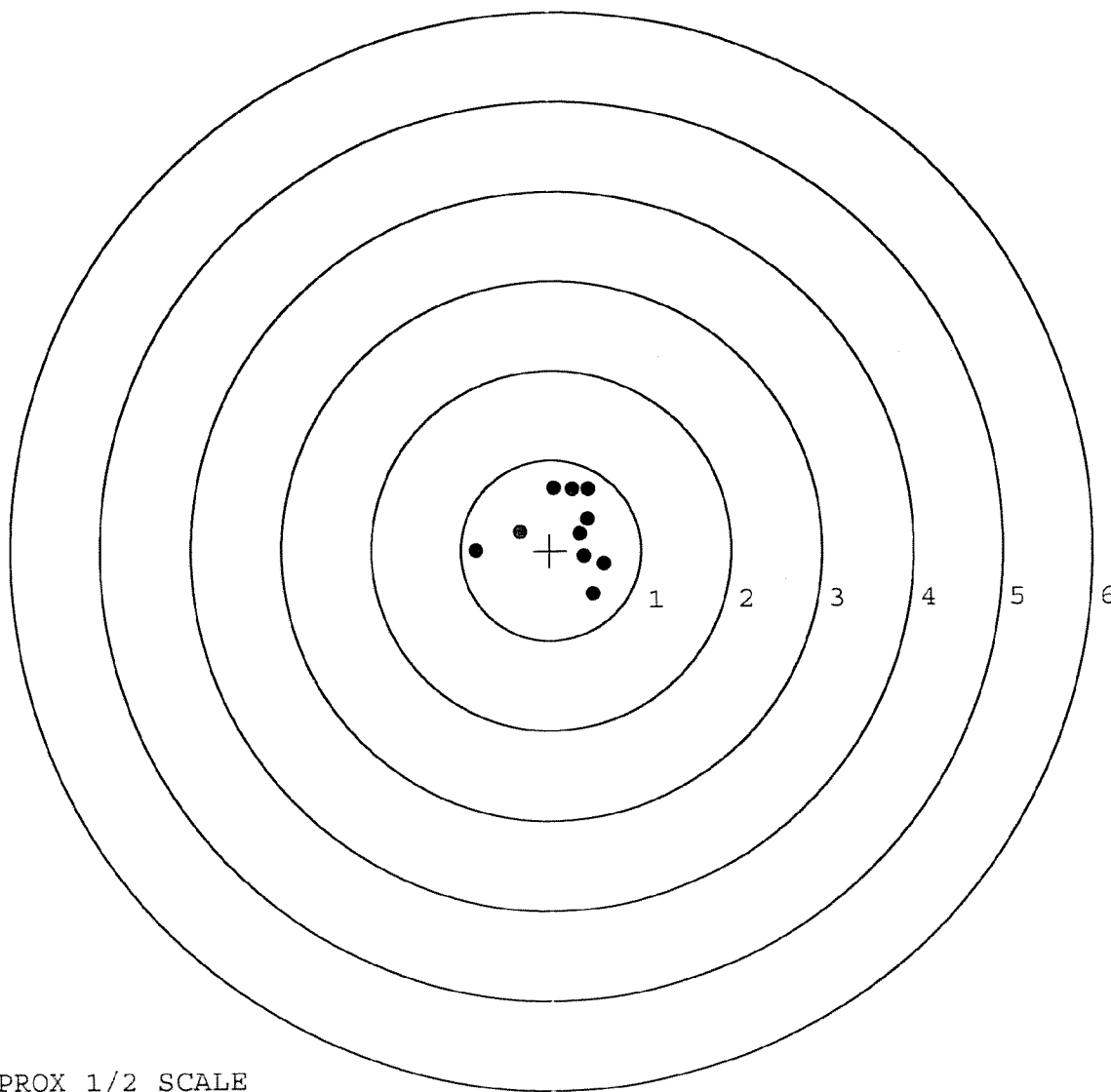
MAX RADIUS: 1.025

MEAN RADIUS: 0.513

# IN 1 IN DIAMETER: 5

# IN 2 IN DIAMETER: 9

# in 3 IN DIAMETER: 10

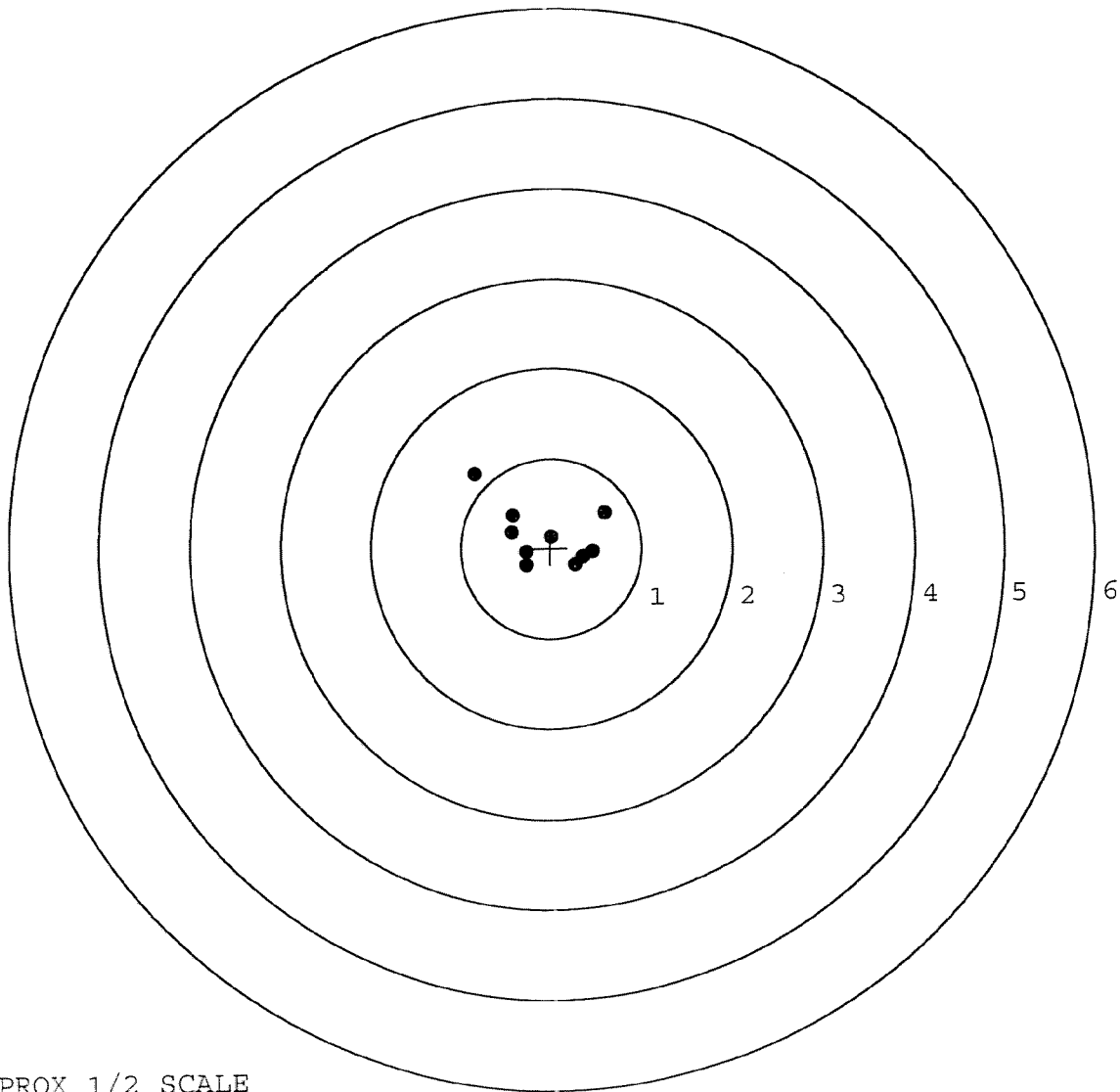


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498843. \_\_0  
 TARGET NUMBER: 5  
 FILE DATE: 01/23/2004  
 FILE TIME: 09:00

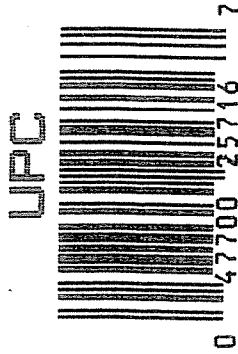
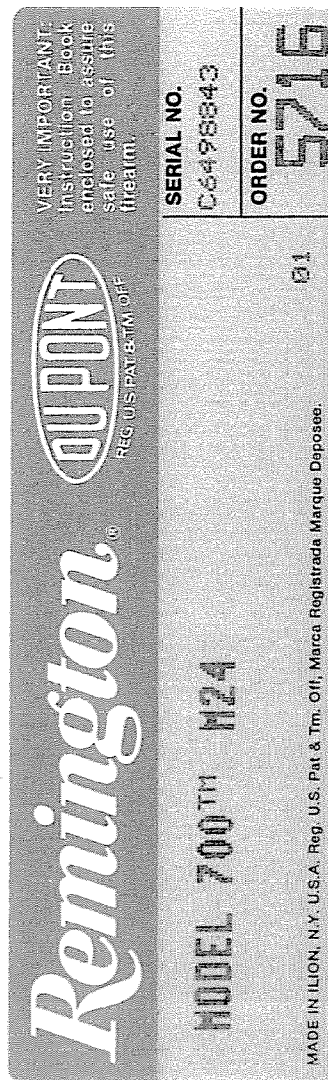
| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 0.598  | 0.392  |
| 2:     | 0.462  | -0.043 |
| 3:     | 0.272  | -0.187 |
| 4:     | 0.009  | 0.130  |
| 5:     | -0.834 | 0.836  |
| 6:     | -0.273 | -0.189 |
| 7:     | -0.268 | -0.044 |
| 8:     | -0.429 | 0.184  |
| 9:     | -0.414 | 0.368  |
| 10:    | 0.359  | -0.102 |

X CENTROID: -0.052  
 Y CENTROID: 0.135  
 POA TO CENTROID: 0.144  
 HORZ SPREAD: 1.432  
 VERT SPREAD: 1.025  
 GROUP SPREAD: 1.566  
 MIN RADIUS: 0.061  
 MAX RADIUS: 1.051  
 MEAN RADIUS: 0.477  
 # IN 1 IN DIAMETER: 7  
 # IN 2 IN DIAMETER: 9  
 # in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

|                     |                    |           |         |
|---------------------|--------------------|-----------|---------|
| R & E NUMBER        | 074630             |           |         |
| SERIAL NUMBER       | C6498843           |           |         |
| LOG-IN DATE         | 12-29-03           |           |         |
| INSPECT AND VERIFY: |                    |           |         |
| OPERATION #         | OPERATION NAME     | DATE      | INITIAL |
| 550                 | DIS-ASSEMBLE GUN   | 1-5-04    | RW      |
| 560 A               | RE-BARREL          | 1-7-04    | RTL     |
| B                   | DRILL AND TAP      | 1-9-04    | TRW     |
| 575                 | ASSEMBLE           | 1-8-04    | RTL     |
| 600                 | PROOF              | 1-8-04    | RW      |
| 605                 | CHECK HEADSPACE    | 1-8-04    | RW      |
| 610                 | DIS-ASSEMBLE GUN   | 1-8-04    | RW      |
| 612                 | MAGNAFLUX          |           |         |
| 615                 | ROLLMARK CALIBER   | 1-13-04   | RB      |
| 618                 | ROTO-BLAST         | 1/13/2004 | Don S.  |
| 620                 | APPLY COATINGS     | 1-15      | TA      |
| 625 A               | FINAL ASSEMBLY     | 1-17-04   | RW      |
| B                   | TRIGGER PULL TEST  |           |         |
| C                   | SAFETY "ON" FORCE  |           |         |
| D                   | SAFETY "OFF" FORCE |           |         |
| E                   | FIRING PIN INDENT  |           |         |
| 640                 | TARGET             | 1-23-04   | AC      |
| 655                 | FINAL INSPECT      | 1-27-04   | RTL     |
| 660                 | PACK               | 1-27-04   | RW      |
|                     |                    | SHIP DATE |         |
| QAR INSPECTION DATE |                    |           |         |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                          |  |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                 |                                     |                                                     |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------|--|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------|-----------------------------------------------------|--|
| <b>MAINTENANCE REQUEST</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                          |  | PAGE NO.<br>1                               | NO. OF PAGES<br>1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | REQUIREMENTS CONTROL SYMBOL<br>CSGLD - 1047(R1) |                                     |                                                     |  |
| For use of this form, see DA PAM 738-750; the proponent agency is DCSLOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                          |  |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                 |                                     |                                                     |  |
| <b>SECTION I - EQUIPMENT DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                          |  |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                 |                                     |                                                     |  |
| <b>CONTROL NUMBER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | <b>WORK ORDER NO.</b>                                    |  | <b>WESDC</b>                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>ORG. PD</b>                                  |                                     | <b>PD AUTHENTICATION</b><br>X                       |  |
| <input type="checkbox"/> Work Request<br><input type="checkbox"/> MWO<br><input checked="" type="checkbox"/> Warranty Claim                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | <b>1A. ORGANIZATION</b><br>Dco 3/5                       |  | <b>B. LOCATION</b><br>Ft. Campbell KY 42223 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                 | <b>C. UNIT IDENT CODE</b><br>WHOGPO |                                                     |  |
| <b>2. SERIAL NO.</b><br>C6498843                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | <b>3. NOUN NOMENCLATURE</b><br>7.62 mm Sniper Weapon M24 |  | <b>4. LINE NO.</b>                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>5. MODEL</b>                                 |                                     | <b>6. NATIONAL STOCK NUMBER</b><br>1005-01-240-2136 |  |
| <b>7A. MAINTENANCE ACTIVITY</b><br>IMG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | <b>B. LEVEL</b><br>O                                     |  | <b>8. UTILIZATION CODE</b><br>O             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>9A. MCSR ITEM</b>                            |                                     | <b>9B. ERC</b>                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                          |  |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>9C. PACING ITEM</b>                          |                                     | <b>10. HOURS</b>                                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                          |  |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                 |                                     | <b>11. MIKES</b>                                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                          |  |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                 |                                     | <b>12. ROUNDS</b>                                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                          |  |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                 |                                     | <b>13. STARTS</b>                                   |  |
| <b>14. FAILURE DETECTED DURING (Select one - use ✓ or X)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                          |  |                                             | <b>15. FIRST INDICATION OF TROUBLE (Select one - use ✓ or X)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                 |                                     |                                                     |  |
| <input type="checkbox"/> A Sch. Main. <input type="checkbox"/> C Test <input type="checkbox"/> E Storage <input type="checkbox"/> G Flight<br><input type="checkbox"/> B Handling <input type="checkbox"/> D Normal Op. <input type="checkbox"/> F Inspection <input checked="" type="checkbox"/> H Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                          |  |                                             | <input type="checkbox"/> 058 Inoperative <input type="checkbox"/> 258 Overheating <input type="checkbox"/> 799 Out of Adjustment<br><input type="checkbox"/> 008 Noisy <input type="checkbox"/> 387 Low Performance <input checked="" type="checkbox"/> Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                 |                                     |                                                     |  |
| <b>16A. DESCRIBE DEFICIENCIES OR SYMPTOMS ON THE BASIS OF COMPLETE CHECKOUT AND DIAGNOSTIC PROCEDURE IN EQUIPMENT TM (Do not prescribe repairs)</b><br>5,100 Rnds Fired                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                          |  |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                 |                                     |                                                     |  |
| <b>B. REMARKS</b><br>W 554095345 H246                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                          |  |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                 |                                     |                                                     |  |
| <b>PREPARATION INSTRUCTIONS (Prior to using this form, read DA PAM 738-750 for detailed preparation instructions)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                          |  |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                 |                                     |                                                     |  |
| 1. Place a "✓" or an "X" in the box for the type of action required.<br>2. Enter the WESDC if the item is Materiel Condition Status Reportable.<br>3. Enter the priority designator as determined from the urgency of need and force activity designator.<br>4. The Unit Commander, Chief of TDA activity or their designated representative will authenticate, by signature, a priority of 01 through 08.<br>5. <b>Block 1A.</b> Enter the name of the organization submitting the request.<br>6. <b>Block 1B.</b> Enter the unit submitting the request; units overseas enter APO only.<br>7. <b>Block 1C.</b> Enter the unit identification code of the unit in block 1A.<br>8. <b>Block 2.</b> Enter the equipment serial number. For ammunition, enter the lot number. For administrative-use vehicles, enter the USA registration number.<br>9. <b>Block 3.</b> Enter the noun abbreviation of the item.<br>10. <b>Block 4.</b> Enter the item line number, if applicable.<br>11. <b>Block 5.</b> Enter the model number.<br>12. <b>Block 6.</b> Enter the National Stock Number of the item listed in Block 3. |  |                                                          |  |                                             | 13. <b>Block 7.</b> Enter the name of the support activity.<br>14. <b>Block 7A.</b> Enter the symbol of the maintenance category (O, F, H, D, or L).<br>15. <b>Block 8.</b> Enter the utilization code.<br>16. <b>Block 9A.</b> Enter the word "yes" if the item is Materiel Condition Status Reportable.<br>17. <b>Block 9B.</b> Enter the equipment readiness code, if applicable.<br>18. <b>Block 9C.</b> Enter the word "yes" if the item is a pacing item.<br>19. <b>Block 10.</b> Enter the hour reading, if applicable.<br>20. <b>Block 11.</b> Enter the mileage from the odometer, if applicable.<br>21. <b>Block 12.</b> Enter the total rounds fired, if applicable.<br>22. <b>Block 13.</b> For turbine engines, enter the number of hot starts.<br>23. <b>Block 14.</b> Enter a "✓" or "X" in the proper block.<br>24. <b>Block 15.</b> Enter a "✓" or "X" in the proper block.<br>25. <b>Block 16.</b> Describe briefly the fault or symptoms needing correction. |                                                 |                                     |                                                     |  |
| <b>23. SUBMITTED BY</b><br>[Signature]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                          |  |                                             | <b>24. RECEIVED BY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                 |                                     |                                                     |  |
| <b>JULIAN DATE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                          |  |                                             | <b>JULIAN DATE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                 |                                     |                                                     |  |

|                                                                                                                                                                              |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     |                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------|
| <b>MAINTENANCE REQUEST</b>                                                                                                                                                   |                 |                                                                                                                                                                                                  |                                 | PAGE NO<br>1                                                                                                                                                                                                                                                  | NO OF PAGES<br>1                                                                                              | REQUIREMENTS CONTROL SYMBOL<br>CSGLD - 1047(R1)     |                       |
| For use of this form, see DA PAM 738-750; the proponent agency is DCSLOG                                                                                                     |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     |                       |
| <b>SECTION I - EQUIPMENT DATA</b>                                                                                                                                            |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     |                       |
| CONTROL NUMBER                                                                                                                                                               |                 | WORK ORDER NO.                                                                                                                                                                                   |                                 | WESDC                                                                                                                                                                                                                                                         | ORG PD                                                                                                        | PD AUTHENTICATION<br>X                              |                       |
| <input type="checkbox"/> Work Request<br><input type="checkbox"/> MWO<br><input checked="" type="checkbox"/> Warranty Claim                                                  |                 | 1A. ORGANIZATION<br><i>Dco 3/5</i>                                                                                                                                                               |                                 | B. LOCATION<br><i>Ft. Campbell KY 42223</i>                                                                                                                                                                                                                   |                                                                                                               | C. UNIT IDENT CODE<br><i>WH06PO</i>                 |                       |
| 2. SERIAL NO<br><i>66498843</i>                                                                                                                                              |                 | 3. NOUN NOMENCLATURE<br><i>7.62 mm Sniper Weapon M24</i>                                                                                                                                         |                                 | 4. LINE NO.                                                                                                                                                                                                                                                   | 5. MODEL                                                                                                      | 6. NATIONAL STOCK NUMBER<br><i>1005-01-240-2136</i> |                       |
| 7A. MAINTENANCE ACTIVITY<br><i>IMO</i>                                                                                                                                       |                 | B. LEVEL<br><i>0</i>                                                                                                                                                                             | 8. UTILIZATION CODE<br><i>0</i> | 9A. MCSR ITEM                                                                                                                                                                                                                                                 | 9B. ERC                                                                                                       | 9C. PACING ITEM                                     | 10. HOURS<br><i>/</i> |
|                                                                                                                                                                              |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               | 11. MILES<br><i>/</i>                               | 12. ROUNDS            |
|                                                                                                                                                                              |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     | 13. STARTS            |
| 14. FAILURE DETECTED DURING (Select one - use <input checked="" type="checkbox"/> or X)                                                                                      |                 |                                                                                                                                                                                                  |                                 | 15. FIRST INDICATION OF TROUBLE (Select one - use <input checked="" type="checkbox"/> or X)                                                                                                                                                                   |                                                                                                               |                                                     |                       |
| <input type="checkbox"/> A Sch. Main.                                                                                                                                        |                 | <input type="checkbox"/> C Test                                                                                                                                                                  |                                 | <input type="checkbox"/> E Storage                                                                                                                                                                                                                            |                                                                                                               | <input type="checkbox"/> G Flight                   |                       |
| <input type="checkbox"/> B Handling                                                                                                                                          |                 | <input type="checkbox"/> D Normal Op                                                                                                                                                             |                                 | <input checked="" type="checkbox"/> F Inspection                                                                                                                                                                                                              |                                                                                                               | <input checked="" type="checkbox"/> H Other         |                       |
|                                                                                                                                                                              |                 |                                                                                                                                                                                                  |                                 | <input type="checkbox"/> 068 Inoperative <input type="checkbox"/> 258 Overheating <input type="checkbox"/> 799 Out of Adjustment<br><input type="checkbox"/> 008 Noisy <input type="checkbox"/> 387 Low Performance <input checked="" type="checkbox"/> Other |                                                                                                               |                                                     |                       |
| 16A. DESCRIBE DEFICIENCIES OR SYMPTOMS ON THE BASIS OF COMPLETE CHECKOUT AND DIAGNOSTIC PROCEDURE IN EQUIPMENT TM (Do not prescribe repairs).<br><i>5,100 Rnds Fired</i>     |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     |                       |
| B. REMARKS<br><i>W 564095345 H 246</i>                                                                                                                                       |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     |                       |
| <b>SECTION II - WORK ACCOMPLISHED</b>                                                                                                                                        |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     |                       |
| 17A. REPAIR ORGANIZATION/ACTIVITY                                                                                                                                            |                 |                                                                                                                                                                                                  | C. UNIT IDENT. CODE             |                                                                                                                                                                                                                                                               | 18. TYPE ORGANIZATION/ACTIVITY ACCOMPLISHING WORK (Select one - use <input checked="" type="checkbox"/> or X) |                                                     | 19. AMS ACCT. CODE    |
| B. LOCATION                                                                                                                                                                  |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               | <input type="checkbox"/> 1 TOE <input type="checkbox"/> 2 TD <input type="checkbox"/> 3 Contractor            |                                                     |                       |
| 20A. ACT. CODE                                                                                                                                                               | B. FAILURE CODE | C. COMPONENT/PART NOUN, SVC, OR MWO NO.                                                                                                                                                          |                                 | D. MANHOURS (Hrs. & tenths)                                                                                                                                                                                                                                   | E. NATIONAL STOCK NUMBER                                                                                      | F. PART SOURCE CODE                                 | H. PARTS COST         |
|                                                                                                                                                                              |                 | (1) CB CODE                                                                                                                                                                                      | (2) REF DESIGN                  | (3) MFR. CODE                                                                                                                                                                                                                                                 |                                                                                                               |                                                     |                       |
|                                                                                                                                                                              |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     | \$                    |
|                                                                                                                                                                              |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     | \$                    |
|                                                                                                                                                                              |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     | \$                    |
|                                                                                                                                                                              |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     | \$                    |
|                                                                                                                                                                              |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     | \$                    |
|                                                                                                                                                                              |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     | \$                    |
|                                                                                                                                                                              |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     | \$                    |
|                                                                                                                                                                              |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     | \$                    |
|                                                                                                                                                                              |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     | \$                    |
|                                                                                                                                                                              |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     | \$                    |
|                                                                                                                                                                              |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     | \$                    |
|                                                                                                                                                                              |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     | \$                    |
|                                                                                                                                                                              |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     | \$                    |
|                                                                                                                                                                              |                 |                                                                                                                                                                                                  |                                 | I. TOTAL MANHOURS                                                                                                                                                                                                                                             | J. TOTAL MANHOURS COST<br>\$                                                                                  | K. TOTAL PARTS COST<br>\$                           |                       |
| 21. DELAY (Select One)                                                                                                                                                       |                 |                                                                                                                                                                                                  |                                 | 22. Data Transcribed                                                                                                                                                                                                                                          |                                                                                                               |                                                     |                       |
| <input type="checkbox"/> 1 Parts <input type="checkbox"/> 2 Manpower <input type="checkbox"/> 3 Facilities <input type="checkbox"/> 4 Funds <input type="checkbox"/> 5 Tools |                 |                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     |                       |
| 23. SUBMITTED BY<br><i>Joseph J. Hahn</i>                                                                                                                                    |                 | 24. RECEIVED BY                                                                                                                                                                                  |                                 | 25. WORK STARTED BY                                                                                                                                                                                                                                           |                                                                                                               | 26. INSPECTED BY                                    |                       |
| 27. ACCEPTED BY                                                                                                                                                              |                 | 28. DISPOSITION (Select One)                                                                                                                                                                     |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     |                       |
|                                                                                                                                                                              |                 | <input type="checkbox"/> A To User <input type="checkbox"/> D Evacuated<br><input type="checkbox"/> B To Stock <input type="checkbox"/> E Cannibalization<br><input type="checkbox"/> C Salvaged |                                 |                                                                                                                                                                                                                                                               |                                                                                                               |                                                     |                       |
| JULIAN DATE                                                                                                                                                                  | JULIAN DATE     | JULIAN DATE                                                                                                                                                                                      | JULIAN DATE                     | JULIAN DATE                                                                                                                                                                                                                                                   |                                                                                                               |                                                     |                       |

RECEIVING BARBER-M24 0088778

COMMENTS

ORDER

R 95-30890

W/LEUPOLD 10X SCOPE

Scope #89-0996

|                           |                         |            |                           |                   |                                  |
|---------------------------|-------------------------|------------|---------------------------|-------------------|----------------------------------|
| INITIAL<br>JLM            | CUSTOMER ORDER NO.      |            |                           |                   |                                  |
| DATE RECEIVED<br>12/01/95 | DATE OPENED<br>12/05/95 | DATE CODE  | SERIAL NUMBER<br>C6498843 | NEW SERIAL NUMBER | MODEL AND GRADE<br>700 7.62 NATO |
| ACCESSORIES<br>HARD CASE  |                         | SCOPE MNTS |                           | SCOPE BASE        |                                  |

FROM: SHIP TO:

TRANSPORTATION OFFICE  
FT CAMPBELL

KY 42223

TRANSPORTATION OFFICE  
FT CAMPBELLKY  
42223

CUST NO: 007942 C.O.D.L

|                |                    |                                |            |           |            |
|----------------|--------------------|--------------------------------|------------|-----------|------------|
| ACCOUNT NUMBER | ACCOUNT NUMBER N/C | WRITE <input type="checkbox"/> | PROM. DATE | ESTIMATED | VIA<br>UPS |
|----------------|--------------------|--------------------------------|------------|-----------|------------|

GUN CONDITION

- ☐ NEW  
☐ LIGHTLY WORN  
☐ WORN  
☐ VERY WORN  
☐ UNREPAIRABLE  
☐ MARRED

REPAIR CHARGE

EXCISE

TAX

INSURANCE

UPS

PARCEL POST

TOTAL

| CUSTOMER CONCERN | AMMO | FUNCTION | FINISH | ACCURACY | FIT | INSPECT |
|------------------|------|----------|--------|----------|-----|---------|
| CYCLE            | A1   | B1       |        |          |     |         |
| TRIGGER GROUP    |      | B2       |        |          | E1  | F1      |
| BOLT ASSY.       |      | B3       |        |          | E2  | F2      |
| BARREL ASSY.     |      | B4       |        | D1       | E3  | F3      |
| REC. ASSY.       |      | B5       |        | D2       | E4  | F4      |
| WOOD             |      |          | C1     | D3       | E5  | F5      |
| METAL            |      |          | C2     |          |     |         |

MAIN FAULT

|                                 |                                                                                                              |        |        |        |         |
|---------------------------------|--------------------------------------------------------------------------------------------------------------|--------|--------|--------|---------|
| PARTS                           | COMMENTS                                                                                                     |        |        |        |         |
| Barrel - 96003<br>Stock - 96018 | Repauder Coat Trigger Guard<br>Assy, front & rear sight bases<br>Re-zinc Scope Base, Rings &<br>Swivel Studs |        |        |        |         |
|                                 | Scope sent back to Vendor<br>to be checked                                                                   |        |        |        |         |
| REPAIRMAN                       | PROOF                                                                                                        | CLEAN  | TEST   | TARGET | PATTERN |
| RW                              | L                                                                                                            | L      | L      | L      |         |
| GALLERY TESTER                  | DATE                                                                                                         | DATE   | DATE   | DATE   | DATE    |
| RW                              | 12/21/95                                                                                                     | 1/5/96 | 1/9/96 | 1/9/96 |         |

OFFICE COPY

RD9925 REV. 1/84

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER  
KINZER V. REMINGTON

BARBER - M24 0088778 008817

Transportation Office  
Fort Campbell, Ky 42223-5129

| Gun<br>Serial<br># | BARBER - M24 0008780<br>Serial<br># | Base                      | Iron<br>Sights | Deployment<br>Kit | Soft<br>Carrying<br>Case | Sling | Hard<br>Case | <input checked="" type="checkbox"/> |
|--------------------|-------------------------------------|---------------------------|----------------|-------------------|--------------------------|-------|--------------|-------------------------------------|
| C6498843           | 0996                                | ✓                         |                |                   |                          |       | ✓            |                                     |
| C6349024           | 0934                                | ✓                         |                |                   |                          |       | ✓            |                                     |
| C6498732           | 0992                                | ✓                         |                |                   |                          |       | ✓            |                                     |
| C6498729           | 0882                                | Scope<br>Rings No<br>Base |                |                   |                          |       | ✓            |                                     |
| C6498878           | 0671                                | ✓                         |                |                   |                          |       | ✓            |                                     |
| C6498766           | 0989                                | ✓                         |                |                   |                          |       | ✓            |                                     |
| C6498734           | 0702                                | ✓                         |                |                   |                          |       | ✓            |                                     |
| C6349121           | 0655                                | ✓                         |                |                   |                          |       | ✓            |                                     |
| C6349106           | 0951                                | ✓                         |                |                   |                          |       | ✓            |                                     |
| C6498786           | 0872                                | ✓                         |                |                   |                          |       | ✓            |                                     |
| C6498848           | 0986                                | ✓                         |                |                   |                          |       | ✓            |                                     |
| C6498872           | 0899                                | ✓                         |                |                   |                          |       | ✓            |                                     |
| C6349184           | 0991                                | ✓                         |                |                   |                          |       | ✓            |                                     |
| C6498862           | 0987                                | ✓                         |                |                   |                          |       | ✓            |                                     |
| C6498757           | 0953                                | ✓                         |                |                   |                          |       | ✓            |                                     |
| C6349073           | 0556                                | ✓                         |                |                   |                          |       | ✓            |                                     |
| C6349005           | 0653                                | ✓                         |                |                   |                          |       | ✓            |                                     |
| C6348995           | 1362                                | ✓                         |                |                   |                          |       | ✓            |                                     |

## Final Inspection

Sn: C1498843

DATE REC'D: 12/04/95

DATE RET'D:

AUDITOR: MW

## Item:

Barrel Assy.

☒ BARREL☒ RECEIVER☒ FRONT SIGHT BLOCK☒ REAR SIGHT BLOCK☒ SCREWS☒ FINISH

Scope Assy.

☒ Scope☒ Scope Rings☒ Mounting Screws☒ Mounting Base☒ SCREWS☒ FINISH☒ Looseness☒ CLARITY

Misc.

☐ DD-250☐ BAR CODE☐ PACKAGING

## Item:

Stock Assy.

☒ Stock☒ Sling Swivel Studs☒ ADJUSTABLE Butt PLATE☒ LOCK NUTS☒ BARREL CLEARANCE☒ COLOR/FINISH

Systems Case

☐ Scope Case☐ Iron SIGHTS☐ Deployment Kit

Trigger

☒ SAFETY OPERATION☒ SET

Comments:

New Barrel  
Stock

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6498843

| OP. #        | OP. NAME                                                       | READINGS | DATE     | INITIAL |
|--------------|----------------------------------------------------------------|----------|----------|---------|
| 575 &<br>580 | Assemble Action<br>and Stock                                   |          | 12/21/95 | RW      |
| 600          | Proof                                                          |          | 12/21/95 | RW      |
| 607          | Check Headspace                                                |          | 12/21/95 | RW      |
| 610          | Dis-assemble Gun                                               |          | 12/21/95 | RW      |
| 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          |          | 1/5/96   | RW      |
|              | B) Inspect Rear Firing<br>Pin Hole for Chamfer<br>in Bolt Head |          | 1/5/96   | RW      |
|              | C) Inspect Ejector Hole<br>for Chamfer                         |          | 1/5/96   | RW      |
|              | D) Oil Firing Pin Ass'y                                        |          | 1/5/96   | RW      |
|              | E) Adjust Trigger Pull to<br>Min Setting and Stake             |          |          |         |

| op. #        | BARBER - M24 0008783<br>OP. NAME                                  | READINGS |      |      |      |      | DATE    | INIT |
|--------------|-------------------------------------------------------------------|----------|------|------|------|------|---------|------|
| 625<br>cont. | F) Safety On Force                                                |          |      |      |      |      |         |      |
|              | G) Safety Off Force                                               |          |      |      |      |      |         |      |
|              | H) Trigger Pull Test &<br>Retainability                           |          |      |      |      |      |         |      |
|              | I) Firing Pin Indent                                              |          |      |      |      |      |         |      |
|              | J) Assemble Stock                                                 |          |      |      |      |      | 1/5/96  | RW   |
|              | K) Assemble Swivel Studs                                          |          |      |      |      |      |         |      |
|              | L) Attach Front and Rear<br>Sight Assemblies                      |          |      |      |      |      |         |      |
|              | M) Iron Sight Alignment                                           |          |      |      |      |      |         |      |
|              | N) Detach Front & Rear<br>Sights & place in<br>numbered container |          |      |      |      |      |         |      |
|              | O) Attach Scope to Rifle                                          |          |      |      |      |      |         |      |
|              | P) Detach & Attach Scope<br>20 Times                              |          |      |      |      |      |         |      |
| 640          | Gallery Target & Test                                             |          |      |      |      |      | 1/9/96  | RW   |
|              | A) Time                                                           |          |      |      |      |      |         |      |
|              | B) Malfunctions                                                   |          |      |      |      |      |         |      |
|              | C) Pierced Primers                                                |          |      |      |      |      |         |      |
|              | D) Optical Clarity of Scope                                       |          |      |      |      |      |         |      |
| 645          | Inspect for Live Ammo                                             |          |      |      |      |      | 1/9/96  | RW   |
| 655          | Final Inspection                                                  |          |      |      |      |      | 1/10/96 | RW   |
|              | A) Headspace                                                      |          |      |      |      |      | 1/10/96 | RW   |
|              | B) Trigger Pull                                                   | 2.90     | 2.62 | 2.69 | 2.61 | 2.68 | 1/10/96 | RW   |
|              | C) Function                                                       |          |      |      |      |      | 1/10/96 | RW   |
| 660          | Pack                                                              |          |      |      |      |      |         |      |

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # 06498843  
7 Jan 1988

CENTROIDAL DISTANCES

|      |   |         |
|------|---|---------|
| 0 TO | 1 | 1.15154 |
| 1 TO | 2 | .395373 |
| 1 TO | 3 | .426414 |
| 1 TO | 4 | .588743 |
| 1 TO | 5 | .153013 |

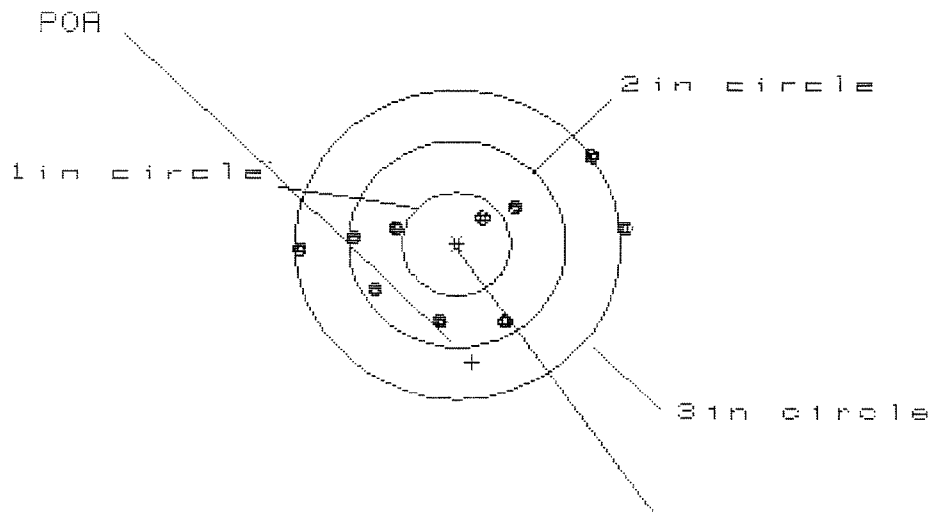
512  
43  
+ C----POR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0946  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .9408  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .945544  
THE AMP FOR THIS RIFLE IS: 1.083

7 Jan 1988

FILE:/PATTERNING/CENTERFIRE\_PATT/C6498843

## CENTERFIRE PATTERNS # 1



# OF SHOTS= 10

# IN CIR

1 in = 1

2 in = 7

3 in = 9

HS= 2.917

VS= 1.639

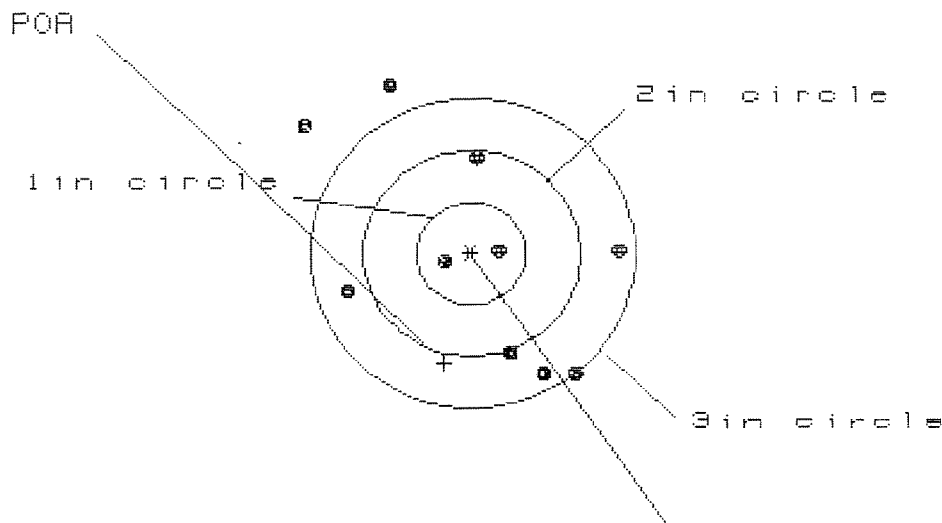
GS= 2.926

| PATTERN #                     | 1      | 2      | 3      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | 1.506  | 1.367  | .887   |
| MINIMUM X                     | -1.411 | -1.244 | -1.073 |
| MAXIMUM Y                     | .893   | .916   | .505   |
| MINIMUM Y                     | -.745  | -.723  | -.609  |
| CENTROID X                    | -.140  | -.307  | -.478  |
| CENTROID Y                    | 1.143  | 1.121  | 1.007  |
| POA TO CENTROID in.           | 1.152  | 1.163  | 1.115  |
| MIN RADIUS                    | .362   | .466   | .385   |
| MEAN RADIUS                   | .954   | .879   | .752   |
| MAX RADIUS                    | 1.519  | 1.646  | 1.078  |
| HORIZONTAL SPREAD             | 2.917  | 2.611  | 1.960  |
| VERTICAL SPREAD               | 1.639  | 1.639  | 1.114  |
| EXTREME SPREAD                | 2.926  | 2.771  | 2.001  |
| NUMBER IN ONE INCH CIRCLE =   | 1      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 7      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 9      |        |        |

7 Jan 1988

FILE:/PATTERNING/CENTERFIRE\_PATT/C6498843

## CENTERFIRE PATTERNS # 2



# OF SHOTS - 10

# IN CIR

1 in = 2

2 in = 3

3 in = 7

HS = 2.810

VS = 2.820

GS = 3.476

CENTROID #

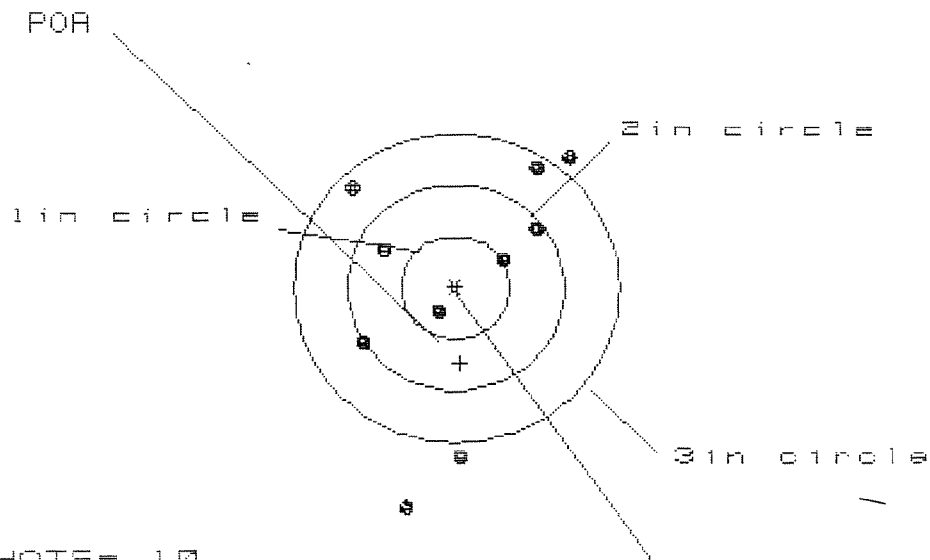
| PATTERN #       | : | 2      |        |        |
|-----------------|---|--------|--------|--------|
| SHOTS (BEST OF) | : | 10     | 9      | 8      |
| MAXIMUM X       | : | 1.308  | 1.141  | 1.029  |
| MINIMUM X       | : | -1.502 | -1.291 | -1.403 |
| MAXIMUM Y       | : | 1.620  | 1.756  | 1.262  |
| MINIMUM Y       | : | -1.200 | -1.064 | -1.845 |

|                             |   |       |       |       |
|-----------------------------|---|-------|-------|-------|
| CENTROID X                  | : | .248  | .415  | .527  |
| CENTROID Y                  | : | 1.067 | .931  | .712  |
| POA TO CENTROID in.         | : | 1.096 | 1.020 | .886  |
| MIN RADIUS                  | : | .266  | .174  | .363  |
| MEAN RADIUS                 | : | 1.159 | 1.049 | .922  |
| MAX RADIUS                  | : | 1.938 | 1.970 | 1.403 |
| HORIZONTAL SPREAD           | : | 2.810 | 2.432 | 2.432 |
| VERTICAL SPREAD             | : | 2.820 | 2.820 | 2.107 |
| EXTREME SPREAD              | : | 3.476 | 3.300 | 2.463 |
| NUMBER IN ONE INCH CIRCLE   | = | 2     |       |       |
| NUMBER IN TWO INCH CIRCLE   | = | 3     |       |       |
| NUMBER IN THREE INCH CIRCLE | = | 7     |       |       |

7 Jan 1900

FILE:/PATTERNING/CENTERFIRE\_PATT/C649B843

## CENTERFIRE PATTERNS # 3



# OF SHOTS= 10

# IN CIR

1 in = 2

2 in = 4

3 in = 7

HS= 1.958

VS= 3.366

GS= 3.652

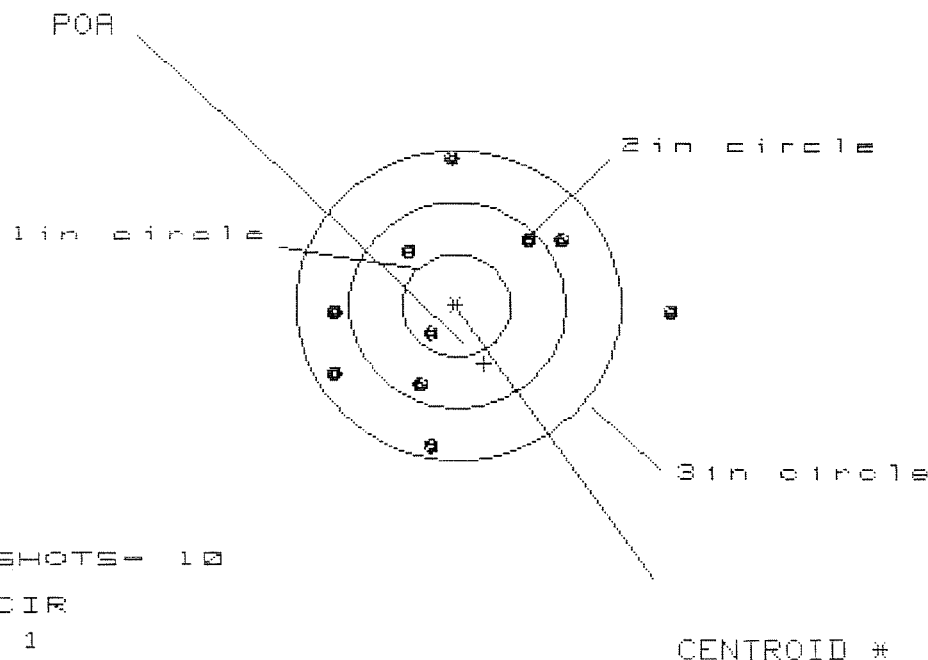
CENTROID #

| PATTERN #                   | : | 3      |        |        |
|-----------------------------|---|--------|--------|--------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 1.008  | .963   | .962   |
| MINIMUM X                   | : | -.950  | -.995  | -.996  |
| MAXIMUM Y                   | : | 1.231  | .993   | .764   |
| MINIMUM Y                   | : | -2.135 | -1.839 | -1.014 |
| CENTROID X                  | : | -.042  | .003   | .004   |
| CENTROID Y                  | : | .728   | .966   | 1.196  |
| POA TO CENTROID in.         | : | .730   | .966   | 1.196  |
| MIN RADIUS                  | : | .277   | .380   | .436   |
| MEAN RADIUS                 | : | 1.156  | 1.018  | .905   |
| MAX RADIUS                  | : | 2.174  | 1.839  | 1.367  |
| HORIZONTAL SPREAD           | : | 1.958  | 1.958  | 1.958  |
| VERTICAL SPREAD             | : | 3.366  | 2.832  | 1.777  |
| EXTREME SPREAD              | : | 3.652  | 2.994  | 2.586  |
| NUMBER IN ONE INCH CIRCLE   | = | 2      |        |        |
| NUMBER IN TWO INCH CIRCLE   | = | 4      |        |        |
| NUMBER IN THREE INCH CIRCLE | = | 7      |        |        |

7 Jan 1988

FILE:/PATTERNING/CENTERFIRE\_PATT/08498843

## CENTERFIRE PATTERNS # 4



# OF SHOTS- 10

# IN CIR

1 in = 1

2 in = 4

3 in = 9

HS= 3.076

VS= 2.828

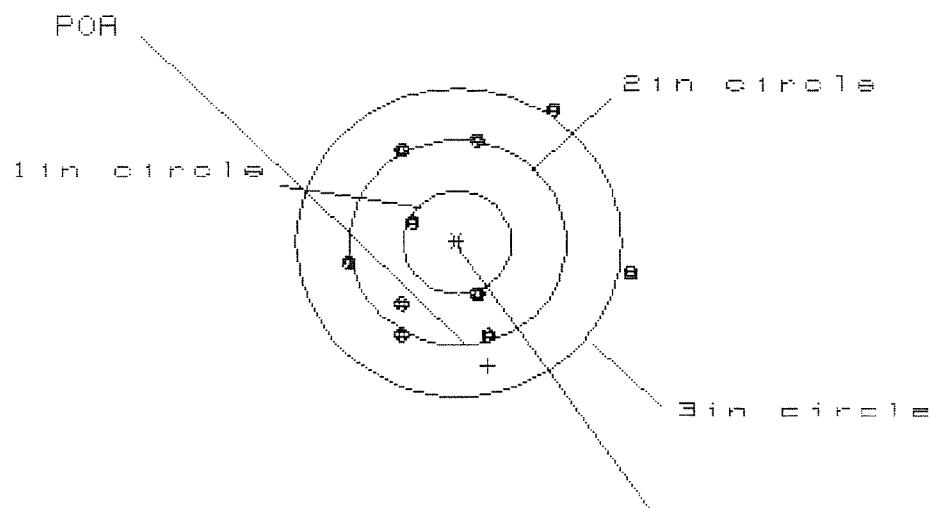
GS= 3.119

| PATTERN #                   | : | 4      |        |        |
|-----------------------------|---|--------|--------|--------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 1.917  | 1.187  | 1.211  |
| MINIMUM X                   | : | -1.159 | -.945  | -.921  |
| MAXIMUM Y                   | : | 1.467  | 1.460  | .804   |
| MINIMUM Y                   | : | -1.361 | -1.368 | -1.186 |
| CENTROID X                  | : | -.257  | -.471  | -.495  |
| CENTROID Y                  | : | .566   | .573   | .391   |
| POA TO CENTROID in.         | : | .622   | .742   | .631   |
| MIN RADIUS                  | : | .353   | .287   | .188   |
| MEAN RADIUS                 | : | 1.127  | 1.006  | .912   |
| MAX RADIUS                  | : | 1.919  | 1.473  | 1.454  |
| HORIZONTAL SPREAD           | : | 3.076  | 2.132  | 2.132  |
| VERTICAL SPREAD             | : | 2.828  | 2.828  | 1.990  |
| EXTREME SPREAD              | : | 3.119  | 2.840  | 2.495  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 1      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 4      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 9      |        |

7 Jan 1988

FILE:/PATTERNING/CENTERFIRE\_PATT/C6498843

## CENTERFIRE PATTERNS # 5



# OF SHOTS= 10

# IN CIR

1 in = 1

2 in = 4

3 in = 8

HS= 2.611

VS= 2.221

GS= 2.611

CENTROID \*

| PATTERN #                   | 5      | 9     | 8     |
|-----------------------------|--------|-------|-------|
| SHOTS (BEST OF)             | 10     | 9     | 8     |
| MAXIMUM X                   | 1.570  | 1.046 | .551  |
| MINIMUM X                   | -1.041 | -.866 | -.735 |
| MAXIMUM Y                   | 1.288  | 1.259 | 1.148 |
| MINIMUM Y                   | -.933  | -.962 | -.805 |
| CENTROID X                  | -.282  | -.457 | -.588 |
| CENTROID Y                  | 1.200  | 1.229 | 1.072 |
| POA TO CENTROID in.         | 1.233  | 1.312 | 1.223 |
| MIN RADIUS                  | .427   | .267  | .343  |
| MEAN RADIUS                 | 1.015  | .923  | .801  |
| MAX RADIUS                  | 1.592  | 1.636 | 1.231 |
| HORIZONTAL SPREAD           | 2.611  | 1.912 | 1.286 |
| VERTICAL SPREAD             | 2.221  | 2.221 | 1.953 |
| EXTREME SPREAD              | 2.611  | 2.604 | 2.041 |
| NUMBER IN ONE INCH CIRCLE = | 1      |       |       |

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6498843

| OP. #        | OP. NAME                                                       | READINGS | DATE    | INIT |
|--------------|----------------------------------------------------------------|----------|---------|------|
| 575 &<br>580 | Assemble Action<br>and Stock                                   | 5 9      | 90      | RW   |
| 600          | Proof                                                          | 5 9      | 90      | RW   |
| 607          | Check Headspace                                                | 5 9      | 90      | RW   |
| 610          | Dis-assemble Gun                                               | 5 9      | 90      | RW   |
| 612          | Magnaflux Barrel<br>Action                                     | 5-15-90  |         | HeR  |
|              | Magnaflux Bolt                                                 | 5-15-90  |         | HeR  |
| 615          | Rollmark Caliber                                               | 5-15-90  |         | GS   |
| 617          | Drill and Tap Sight Holes                                      |          | 5/17/90 | FB   |
| 618          | Polish Barrel RB                                               |          | 5/17/90 | WB   |
| 620          | Apply Coatings<br>(Barrel Action)                              |          | 5-25-90 | TA   |
|              | Apply Coating (Bolt)                                           |          |         |      |
| 625          | Final Assembly<br>A) Clean inside of<br>Bolt Assembly          |          | 5/25/90 | RW   |
|              | B) Inspect Rear Firing<br>Pin Hole for Chamfer<br>in Bolt Head |          | 5/25/90 | RW   |
|              | C) Inspect Ejector Hole<br>for Chamfer                         |          | 5/25/90 | RW   |
|              | D) Oil Firing Pin Ass'y                                        |          | 5/25/90 | RW   |
|              | E) Adjust Trigger Pull to<br>Min Setting and Stake             |          | 4/7/90  | RM   |

| BARBER - M24 0008791 |                                                             |          |       |       |      |      |         |      |
|----------------------|-------------------------------------------------------------|----------|-------|-------|------|------|---------|------|
| op. #                | OP. NAME                                                    | READINGS |       |       |      |      | DATE    | INIT |
| 625<br>cont.         | F) Safety On Force                                          | 5 1/2    | 5 1/2 | 5 1/2 |      |      | 6/8/90  | WB   |
|                      | G) Safety Off Force                                         | 2 1/4    | 2 1/4 | 2 1/4 |      |      | 6/8/90  | WB   |
|                      | H) Trigger Pull Test & Retainability                        |          |       |       |      |      | 6/7/90  | RL   |
|                      | I) Firing Pin Indent                                        | .0245    | .0245 | .0245 |      |      | 6/7/90  | WB   |
|                      | J) Assemble Stock                                           |          |       |       |      |      | 6/8/90  | RW   |
|                      | K) Assemble Swivel Studs                                    |          |       |       |      |      | 6/15/90 | RL   |
|                      | L) Attach Front and Rear Sight Assemblies                   |          |       |       |      |      | 6/8/90  | RW   |
|                      | M) Iron Sight Alignment                                     |          |       |       |      |      | 6/8/90  | RW   |
|                      | N) Detach Front & Rear Sights & place in numbered container |          |       |       |      |      | 6/8/90  | RW   |
|                      | O) Attach Scope to Rifle                                    |          |       |       |      |      | 6/8/90  | WB   |
|                      | P) Detach & Attach Scope 20 Times                           |          |       |       |      |      | 6/8/90  | WB   |
| 640                  | Gallery Target & Test                                       |          |       |       |      |      | 6-8-90  | DA   |
|                      | A) Time                                                     |          |       |       |      |      | 6-8-90  | DA   |
|                      | B) Malfunctions                                             |          |       |       |      |      | 6-8-90  | DA   |
|                      | C) Pierced Primers                                          |          |       |       |      |      | 6-8-90  | DA   |
|                      | D) Optical Clarity of Scope                                 |          |       |       |      |      | 6-8-90  | DA   |
| 645                  | Inspect for Live Ammo                                       |          |       |       |      |      | 6-8-90  | DA   |
| 655                  | Final Inspection                                            |          |       |       |      |      |         |      |
|                      | A) Headspace                                                |          |       |       |      |      | 6/15/90 | RL   |
|                      | B) Trigger Pull                                             | 2.50     | 2.48  | 2.38  | 2.49 | 2.57 | 6/14/90 | RL   |
|                      | C) Function                                                 |          |       |       |      |      | 6/15/90 | RL   |
| 660                  | Pack                                                        |          |       |       |      |      | 6-20-90 | D/H  |

AVERAGE PULL FORCE BETWEEN  
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6498843

DATE 6/7/90

TESTER gll

|         | 2.50#<br>INITIAL | 2.50# AFTER<br>50 CYCLES | FINAL TEST &<br>TO RESET 2.50# |      | COMMENTS                                                               |
|---------|------------------|--------------------------|--------------------------------|------|------------------------------------------------------------------------|
| PULL #1 | 2.35             | 2.33                     | 2.14                           | 2.50 | MIN. SETTING,<br>NO AVG. OF 5<br>READINGS ACCEPT-<br>ABLE LESS THAN 2# |
| PULL #2 | 2.31             | 2.17                     | 2.55                           | 2.48 |                                                                        |
| PULL #3 | 2.34             | 2.50                     | 2.37                           | 2.38 |                                                                        |
| PULL #4 | 2.30             | 2.44                     | 2.54                           | 2.49 |                                                                        |
| PULL #5 | 2.14             | 2.29                     | 2.26                           | 2.51 |                                                                        |
| TOTAL   | 11.44            | 11.73                    | 11.86                          |      |                                                                        |
| AVG.    | 2.288            | 2.346                    | 2.372                          |      |                                                                        |

|         | 3.00#<br>INITIAL | 3.00# AFTER<br>20 CYCLES |  | COMMENTS |
|---------|------------------|--------------------------|--|----------|
| PULL #1 | 3.34             | 3.21                     |  |          |
| PULL #2 | 3.25             | 3.36                     |  |          |
| PULL #3 | 3.22             | 3.43                     |  |          |
| PULL #4 | 3.18             | 3.28                     |  |          |
| PULL #5 | 3.15             | 3.34                     |  |          |
| TOTAL   | 16.14            | 16.62                    |  |          |
| AVG.    | 3.228            | 3.324                    |  |          |

|         | 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 | 4.38             | 4.31                     |                                | 4.37                                 |
| PULL #2 | 4.39             | 4.10                     |                                | 4.52                                 |
| PULL #3 | 4.30             | 4.24                     |                                | 4.30                                 |
| PULL #4 | 4.36             | 4.32                     |                                | 4.20                                 |
| PULL #5 | 4.32             | 4.50                     |                                | 4.50                                 |
| TOTAL   | 21.75            | 21.47                    |                                | 21.89                                |
| AVG.    | 4.35             | 4.294                    |                                | 4.378                                |

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # C6498843  
8 Jun 1990

CENTROIDAL DISTANCES

|      |   |         |
|------|---|---------|
| 0 TO | 1 | 2.14867 |
| 1 TO | 2 | 1.94594 |
| 1 TO | 3 | 1.89813 |
| 1 TO | 4 | 2.57184 |
| 1 TO | 5 | 2.06663 |

1

SP 9 4 <----FOR

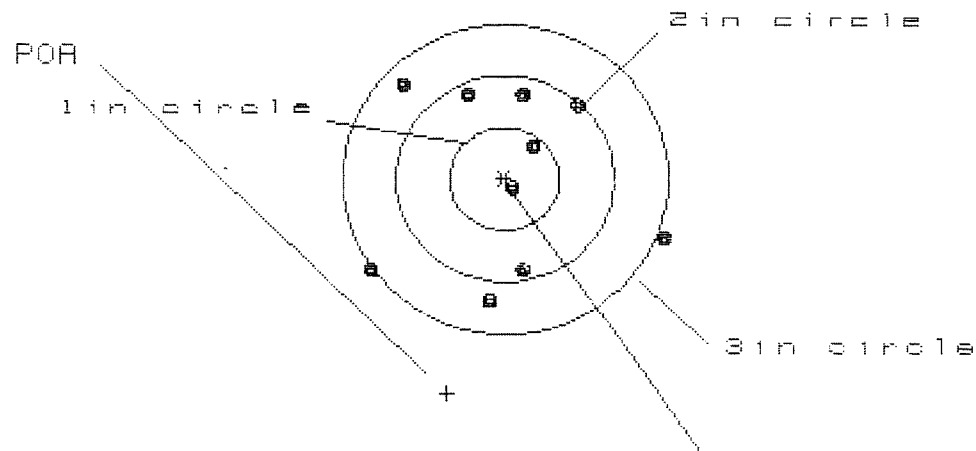
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .4032  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .432  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .590927  
THE AMR FOR THIS RIFLE IS: .8262

8 Jun 1998

FILE:/PATTERNING/CENTERFIRE\_PATT/C8498843

## CENTERFIRE PATTERNS

# 1



# OF SHOTS = 10

# IN CIR

1 in = 2

2 in = 6

3 in = 9

HS = 2.665

VS = 2.194

ES = 2.872

| PATTERN #                     | 1      | 2      | 3      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | 1.474  | .818   | .690   |
| MINIMUM X                     | -1.191 | -1.028 | -.939  |
| MAXIMUM Y                     | .964   | .904   | .787   |
| MINIMUM Y                     | -1.230 | -1.290 | -1.407 |
| CENTROID X                    | .535   | .372   | .500   |
| CENTROID Y                    | 2.081  | 2.141  | 2.258  |
| FOR TO CENTROID in.           | 2.149  | 2.173  | 2.312  |
| MIN RADIUS                    | .130   | .273   | .309   |
| MEAN RADIUS                   | .980   | .923   | .827   |
| MAX RADIUS                    | 1.568  | 1.389  | 1.412  |
| HORIZONTAL SPREAD             | 2.665  | 1.846  | 1.629  |
| VERTICAL SPREAD               | 2.194  | 2.194  | 2.194  |
| EXTREME SPREAD                | 2.872  | 2.451  | 2.342  |
| NUMBER IN ONE INCH CIRCLE =   | 2      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 6      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 9      |        |        |

8 Jun 1998

FILE:/PATTERNING/CENTERFIRE\_PATT/08498843

## CENTERFIRE PATTERNS

# 2

POA

1in circle

2in circle

3in circle

# OF SHOTS- 10

# IN CIR

1in = 5

2in = 8

3in = 10

HS= 1.885

VS= 1.902

GS= 2.201

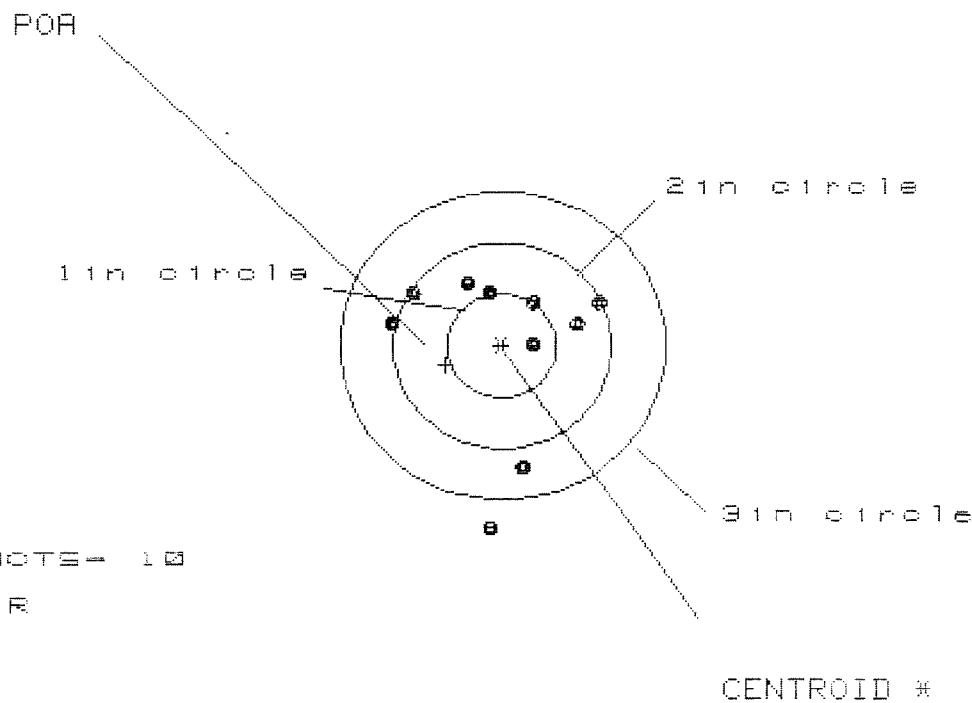
CENTROID \*

| PATTERN #                   | : | 2     |       |       |
|-----------------------------|---|-------|-------|-------|
| SHOTS (BEST OF)             | : | 10    | 9     | 8     |
| MAXIMUM X                   | : | 1.068 | 1.017 | .834  |
| MINIMUM X                   | : | -.817 | -.868 | -.741 |
| MAXIMUM Y                   | : | 1.340 | .393  | .381  |
| MINIMUM Y                   | : | -.562 | -.414 | -.426 |
| CENTROID X                  | : | .080  | .131  | .004  |
| CENTROID Y                  | : | .189  | .041  | .053  |
| POA TO CENTROID in.         | : | .206  | .137  | .053  |
| MIN RADIUS                  | : | .178  | .042  | .170  |
| MEAN RADIUS                 | : | .642  | .544  | .477  |
| MAX RADIUS                  | : | 1.415 | 1.022 | .855  |
| HORIZONTAL SPREAD           | : | 1.885 | 1.885 | 1.575 |
| VERTICAL SPREAD             | : | 1.902 | .807  | .807  |
| EXTREME SPREAD              | : | 2.201 | 1.911 | 1.656 |
| NUMBER IN ONE INCH CIRCLE   | = |       | 5     |       |
| NUMBER IN TWO INCH CIRCLE   | = |       | 8     |       |
| NUMBER IN THREE INCH CIRCLE | = |       | 10    |       |

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## CENTERFIRE PATTERNS # 3



# OF SHOTS- 10

# IN CIR

1in = 2

2in = 8

3in = 9

HS= 1.850

VS= 2.396

GS= 2.439

| PATTERN #                   | : | 3      |        |       |
|-----------------------------|---|--------|--------|-------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8     |
| MAXIMUM X                   | : | .869   | .852   | .872  |
| MINIMUM X                   | : | -.981  | -.998  | -.978 |
| MAXIMUM Y                   | : | .613   | .415   | .244  |
| MINIMUM Y                   | : | -1.783 | -1.363 | -.376 |
| CENTROID X                  | : | .513   | .530   | .510  |
| CENTROID Y                  | : | .183   | .381   | .552  |
| POA TO CENTROID in.         | : | .545   | .653   | .751  |
| MIN RADIUS                  | : | .313   | .313   | .155  |
| MEAN RADIUS                 | : | .868   | .711   | .593  |
| MAX RADIUS                  | : | 1.790  | 1.373  | .995  |
| HORIZONTAL SPREAD           | : | 1.850  | 1.850  | 1.850 |
| VERTICAL SPREAD             | : | 2.396  | 1.778  | .620  |
| EXTREME SPREAD              | : | 2.439  | 1.996  | 1.865 |
| NUMBER IN ONE INCH CIRCLE   | = |        | 2      |       |
| NUMBER IN TWO INCH CIRCLE   | = |        | 8      |       |
| NUMBER IN THREE INCH CIRCLE | = |        | 9      |       |

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FILE:/PATTERNING/CENTERFIRE\_PATT/C6498843

## CENTERFIRE PATTERNS

# 4

POA

1 in circle

2 in circle

3 in circle

CENTROID \*

# OF SHOTS - 10

# IN CIR

1 in = 3

2 in = 7

3 in = 10

H0 = 2.185

V0 = 1.590

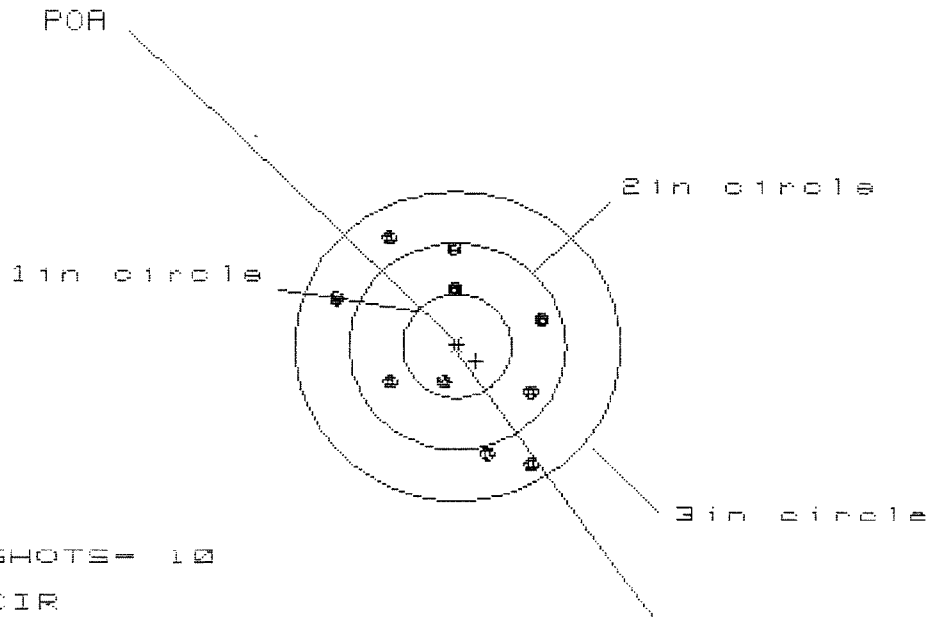
G0 = 2.438

| PATTERN #                   | : | 4      |       |       |
|-----------------------------|---|--------|-------|-------|
| SHOTS (BEST OF)             | : | 10     | 9     | 8     |
| MAXIMUM X                   | : | .971   | .836  | .740  |
| MINIMUM X                   | : | -1.214 | -.768 | -.464 |
| MAXIMUM Y                   | : | 1.037  | 1.103 | 1.044 |
| MINIMUM Y                   | : | -.553  | -.487 | -.349 |
| CENTROID X                  | : | 1.068  | 1.203 | 1.299 |
| CENTROID Y                  | : | -.435  | -.501 | -.639 |
| POA TO CENTROID in.         | : | 1.153  | 1.303 | 1.448 |
| MIN RADIUS                  | : | .045   | .195  | .170  |
| MEAN RADIUS                 | : | .740   | .662  | .549  |
| MAX RADIUS                  | : | 1.354  | 1.344 | 1.112 |
| HORIZONTAL SPREAD           | : | 2.185  | 1.604 | 1.204 |
| VERTICAL SPREAD             | : | 1.590  | 1.590 | 1.393 |
| EXTREME SPREAD              | : | 2.438  | 2.208 | 1.732 |
| NUMBER IN ONE INCH CIRCLE   | = |        | 3     |       |
| NUMBER IN TWO INCH CIRCLE   | = |        | 7     |       |
| NUMBER IN THREE INCH CIRCLE | = |        | 10    |       |

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## CENTERFIRE PATTERNS # 5



# OF SHOTS- 10

# IN CIR

1in = 1

2in = 6

3in = 10

HS= 1.879

VS= 2.245

GS= 2.594

CENTROID \*

| PATTERN #                     | 5      | 9      | 8      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | .809   | .883   | .813   |
| MINIMUM X                     | -1.070 | -.996  | -1.066 |
| MAXIMUM Y                     | 1.063  | .931   | .895   |
| MINIMUM Y                     | -1.182 | -1.152 | -1.035 |
| CENTROID X                    | -.180  | -.254  | -.184  |
| CENTROID Y                    | .142   | .274   | .157   |
| POA TO CENTROID in.           | .230   | .373   | .242   |
| MIN RADIUS                    | .356   | .475   | .370   |
| MEAN RADIUS                   | .901   | .843   | .862   |
| MAX RADIUS                    | 1.356  | 1.217  | 1.149  |
| HORIZONTAL SPREAD             | 1.879  | 1.879  | 1.879  |
| VERTICAL SPREAD               | 2.245  | 2.083  | 1.930  |
| EXTREME SPREAD                | 2.594  | 2.291  | 2.017  |
| NUMBER IN ONE INCH CIRCLE =   | 1      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 6      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 10     |        |        |