

G686 3596  
Replaces  
C 6349217

## Repair Inquiry

Repair Number: RE00173923

Serial: C6349217 Model M24 SWS Center Fire  
Caliber: 7.62 NATO Produced: 06/19/1990

Repairman:

Status:

Closed 8/27/2009 2:55:39 PM

Verify Repair

## Address Information

Customer: ☒ Received From Return To: ☐ Received From

Name: SUPPLY DIVISION USAR SUPPLY DIVISION USAR

Address 1: BLDG 490 BLDG 490

Address 2: PO Box: PO Box:

City: FORT BENNING FORT BENNING

State: GA Zip Code: 31905 Country: US State: GA Zip Code: 31905 Country: US

FFL:

## Contact / Condition

## Problems

## Estimate

## History / Status

## Shipping / Billing

## Contact Information:

Phone: NA

Fax:

Email:

Comments:

## Received Condition:

Fair

Condition Notes:

CSR Notes:

## Accessories Received:

| Code | Desc                  | Qty |
|------|-----------------------|-----|
| A007 | With Stud             | 3   |
| A008 | With Swivel           | 2   |
| A017 | Scope Base            | 1   |
| A026 | Scope                 | 1   |
| A057 | Fit and Rear Sgt Base | 1   |

Repair Search

Refresh

Close

Refresh

Close

Repair ...

nagletj

8/28/2009

8:29 AM

CAPS

NUM

INS

SCRL

Hstar

Microsoft Office...

Internet Explorer

Microsoft Office...

Arms Service Rep...

Part Search by Mat...

8:29 AM

G 6863596

Serial Number: ~~C6349217~~

Model: M24 SWS



RE00173923

## INSPECTION CHECKLIST - REPAIRS

CONTRACT #: W52H09-07-C-0207

ISSUED 10/1/2007

R &amp; E NUMBER

173923

SERIAL NUMBER

66349217

LOG-IN DATE

8-27-09

66863596

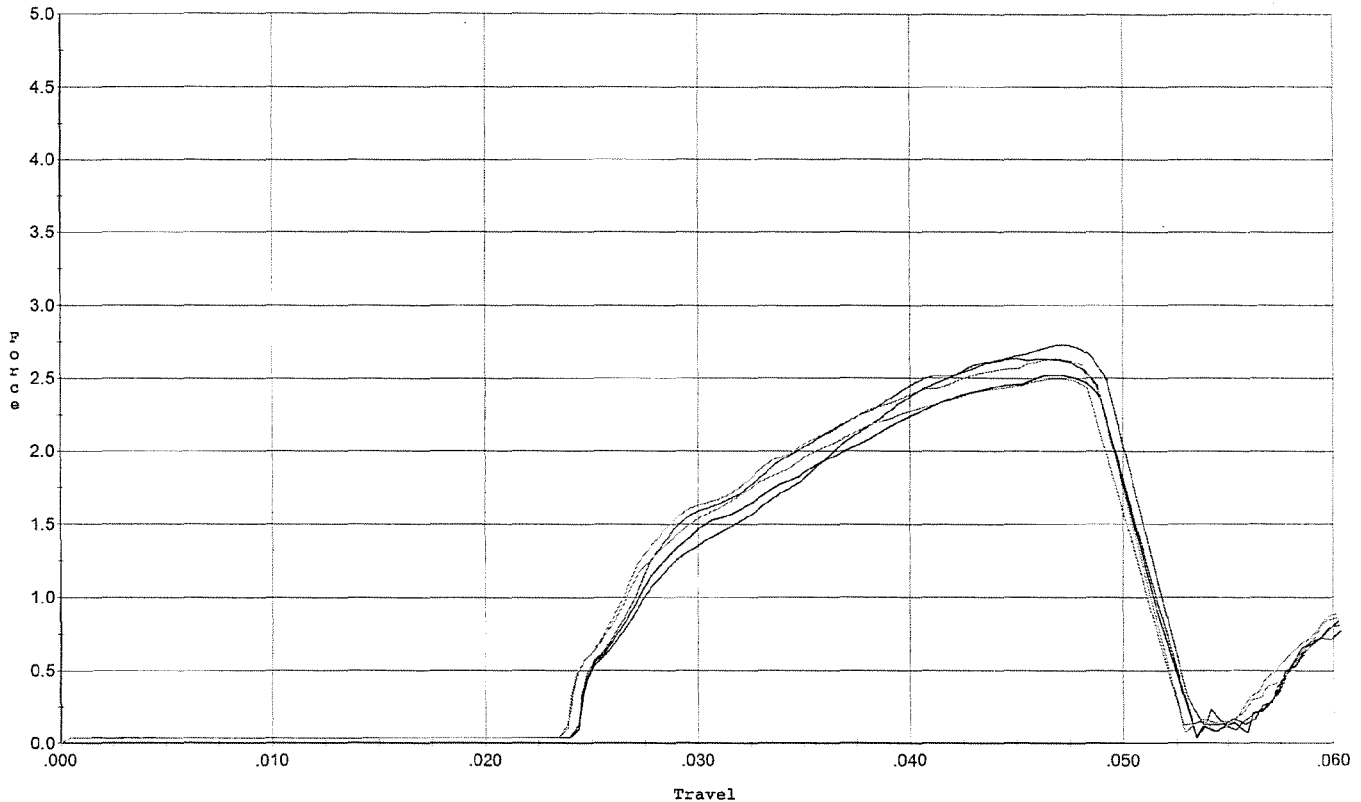
| OPERATION # | OPERATION NAME       | DATE                     | INITIAL |
|-------------|----------------------|--------------------------|---------|
| 500         | DIS-ASSEMBLE GUN     | 9-2-09                   | RTZ     |
| 505         | RE-BARREL            | 9-4-09                   | RTZ     |
| 420         | ASSEMBLE             | 9-4-09                   | RTZ     |
| 440         | PROOF                | 9-4-09                   | SPD.    |
| 460         | CHECK HEADSPACE      | 9-4-09                   | SPD.    |
| 470         | DIS-ASSEMBLE GUN     | 9-4-09                   | SPD.    |
| 480         | MAGNAFLUX            | 9/16/09                  | SP      |
| 510         | DRILL AND TAP        | 9-2-09                   | SP      |
| 500         | ROLLMARK CALIBER     | 9/10/09                  | SP      |
| 520         | GOFF BLAST BBL / REC | 9/10                     | SP      |
| 530 & 540   | APPLY COATINGS       | 9/16                     | SP      |
| 560         | FINAL ASSEMBLY       | 9-22-09                  | RTZ     |
| 640         | FUNCTION TEST AND    | 9-22-09                  | SPD.    |
| 650         | TARGET               | 9-22-09                  | SPD.    |
|             | MALFUNCTION          | CORRECTION               |         |
|             | MALFUNCTION          | CORRECTION               |         |
|             | MALFUNCTION          | CORRECTION               |         |
|             | MALFUNCTION          | CORRECTION               |         |
| 670         | FINAL INSPECTION     | 9-22-09                  | RP      |
|             | A) HEADSPACE         | 9-24-09                  | TC      |
|             | B) TRIGGER PULL      | 9-24-09                  | TC      |
|             |                      | 2.69 2.57 2.56 2.66 2.69 |         |
| 680         | F) SAFETY ON FORCE   | 9-24-09                  | TC      |
|             | G) SAFETY OFF FORCE  | 9-24-09                  | TC      |
|             | I) FIRING PIN INDENT | 9-24-09                  | TC      |
| 690         | PACK                 | 9-25-09                  | Fm      |

F006 REV 1/2009

## Trigger Profile [ lbs,inch ]

Profile SWS  
 GunType: Rifle  
 Make: Remington  
 Note: cms 8/31/2009

Model: M/24  
 Serial No: Form #F005  
 Trigger: 2.5 lbs ini +/- .50 lb



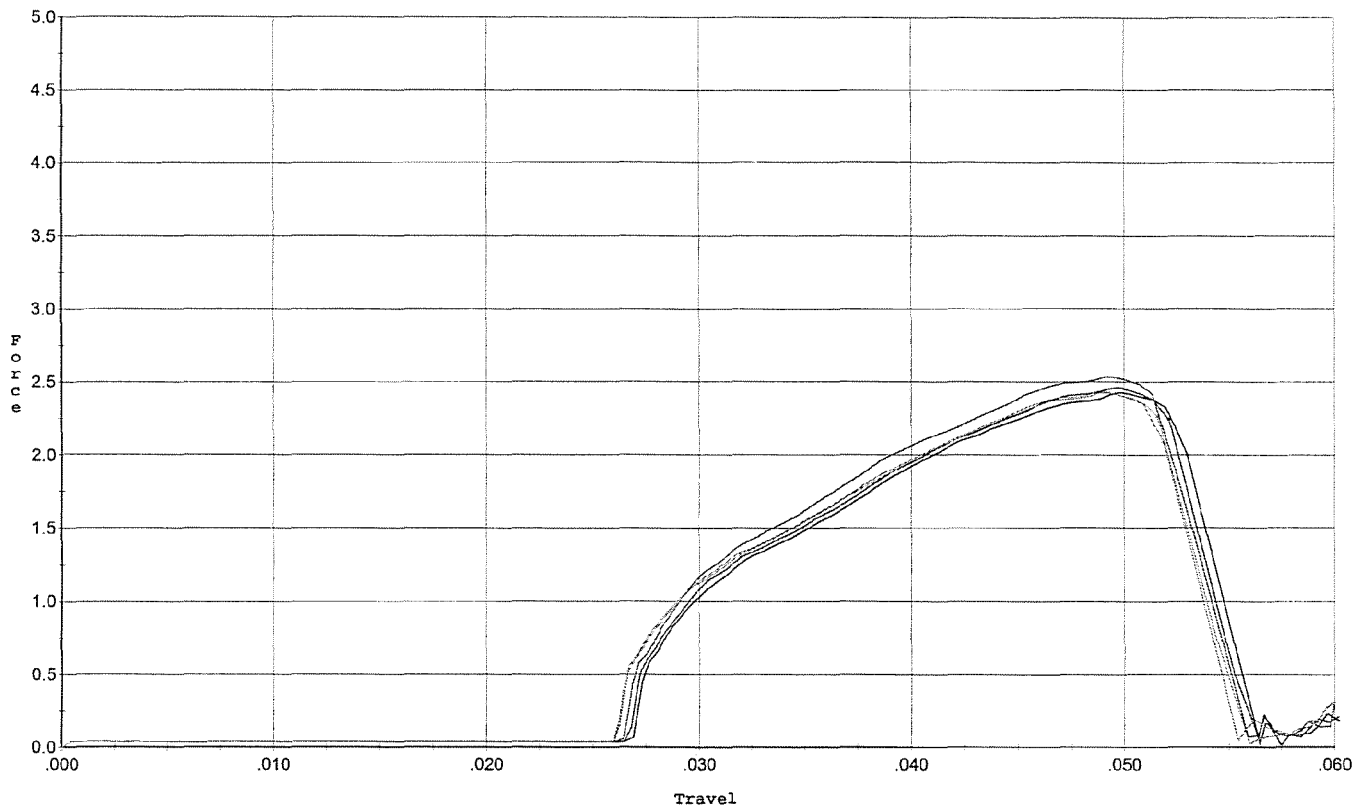
| # | Peak Force | Travel To Actuate | Initial Take-up | Overtravel | Energy To Actuate | Lock Time | Action Type |
|---|------------|-------------------|-----------------|------------|-------------------|-----------|-------------|
| 1 | 2.634      | 0.049             | 0.024           | 0.037      | 0.048             |           | Set Trigger |
| 2 | 2.521      | 0.049             | 0.024           | 0.037      | 0.048             |           | Set Trigger |
| 3 | 2.729      | 0.049             | 0.024           | 0.037      | 0.052             |           | Set Trigger |
| 4 | 2.636      | 0.049             | 0.024           | 0.037      | 0.051             |           | Set Trigger |
| 5 | 2.496      | 0.050             | 0.024           | 0.037      | 0.050             |           | Set Trigger |

A-2.60

## Trigger Profile [ lbs,inch ]

Profile SWS  
GunType: Rifle  
Make: Remington  
Note: cms 8/31/2009

Model: M/24  
Serial No: Form #F005  
Trigger: 2.5 lbs after 50 cycles+/- .50 lb



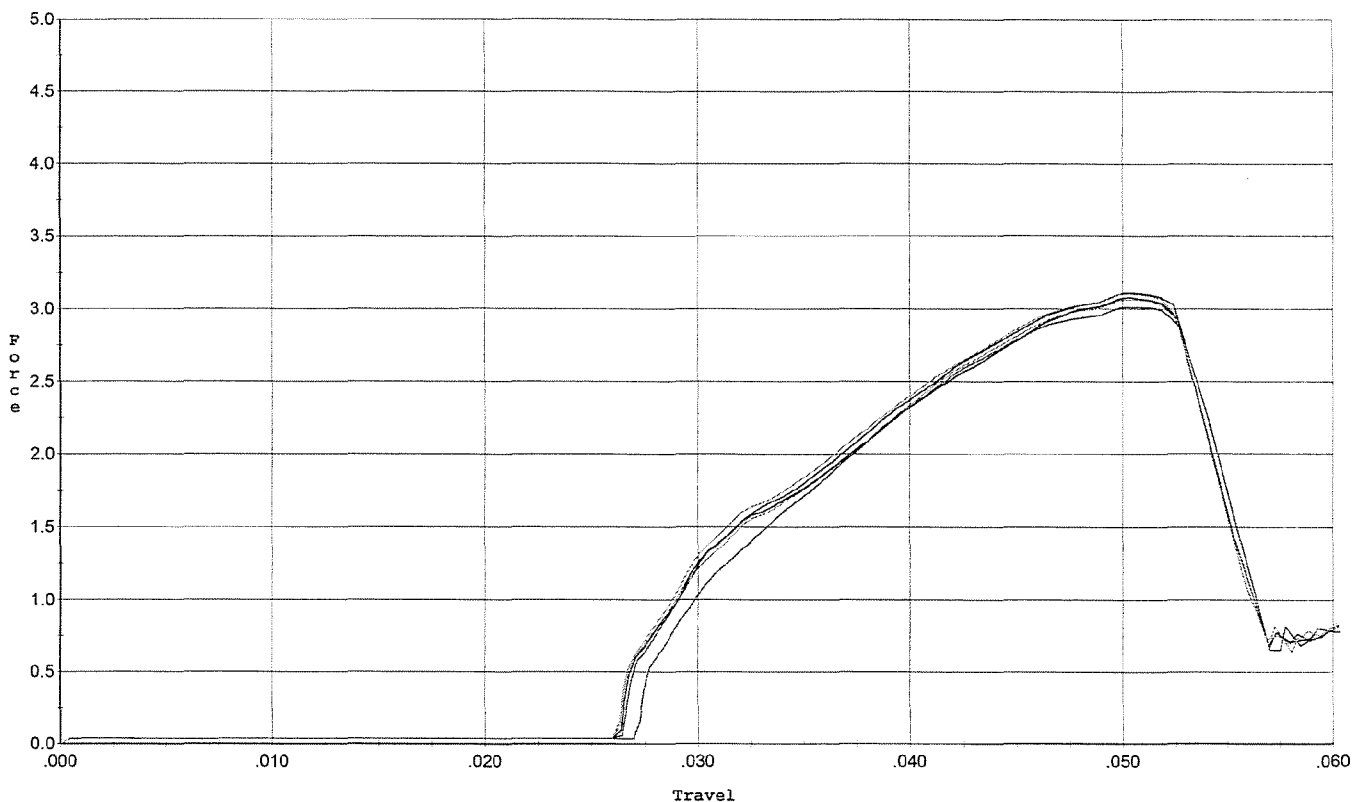
| # | Peak Force | Travel To Actuate | Initial Take-up | Overtravel | Energy To Actuate | Lock Time | Action Type |
|---|------------|-------------------|-----------------|------------|-------------------|-----------|-------------|
| 1 | 2.464      | 0.052             | 0.027           | 0.039      | 0.048             |           | Set Trigger |
| 2 | 2.430      | 0.053             | 0.027           | 0.039      | 0.048             |           | Set Trigger |
| 3 | 2.534      | 0.053             | 0.027           | 0.039      | 0.051             |           | Set Trigger |
| 4 | 2.425      | 0.052             | 0.026           | 0.039      | 0.047             |           | Set Trigger |
| 5 | 2.437      | 0.052             | 0.026           | 0.039      | 0.047             |           | Set Trigger |

A 2.45

## Trigger Profile [ lbs,inch ]

Profile SWS  
GunType: Rifle  
Make: Remington  
Note: cms 8/31/2009

Model: M/24  
Serial No: Form #F005  
Trigger: 3.0 lbs ini +/- .75 lb



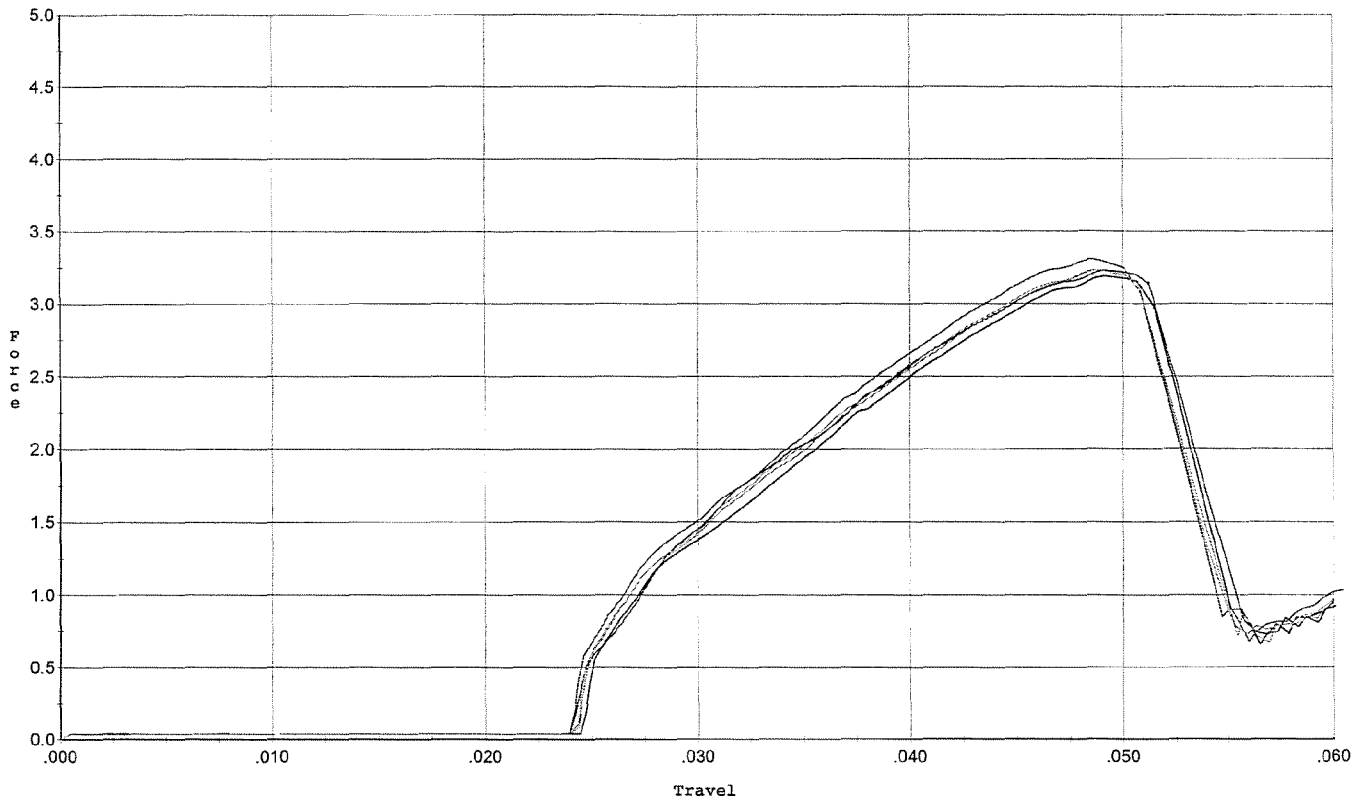
| # | Peak Force | Travel To Actuate | Initial Take-up | Overtravel | Energy To Actuate | Lock Time | Action Type |
|---|------------|-------------------|-----------------|------------|-------------------|-----------|-------------|
| 1 | 3.114      | 0.054             | 0.027           | 0.036      | 0.062             |           | Set Trigger |
| 2 | 3.080      | 0.053             | 0.026           | 0.036      | 0.059             |           | Set Trigger |
| 3 | 3.012      | 0.053             | 0.027           | 0.036      | 0.058             |           | Set Trigger |
| 4 | 3.104      | 0.053             | 0.026           | 0.036      | 0.061             |           | Set Trigger |
| 5 | 3.064      | 0.053             | 0.026           | 0.036      | 0.059             |           | Set Trigger |

4.3.07

## Trigger Profile [ lbs,inch ]

Profile SWS  
GunType: Rifle  
Make: Remington  
Note: cms 8/31/2009

Model: M/24  
Serial No: Form #F005  
Trigger: 3.0 lbs after 20 cycles+/- .75 lb



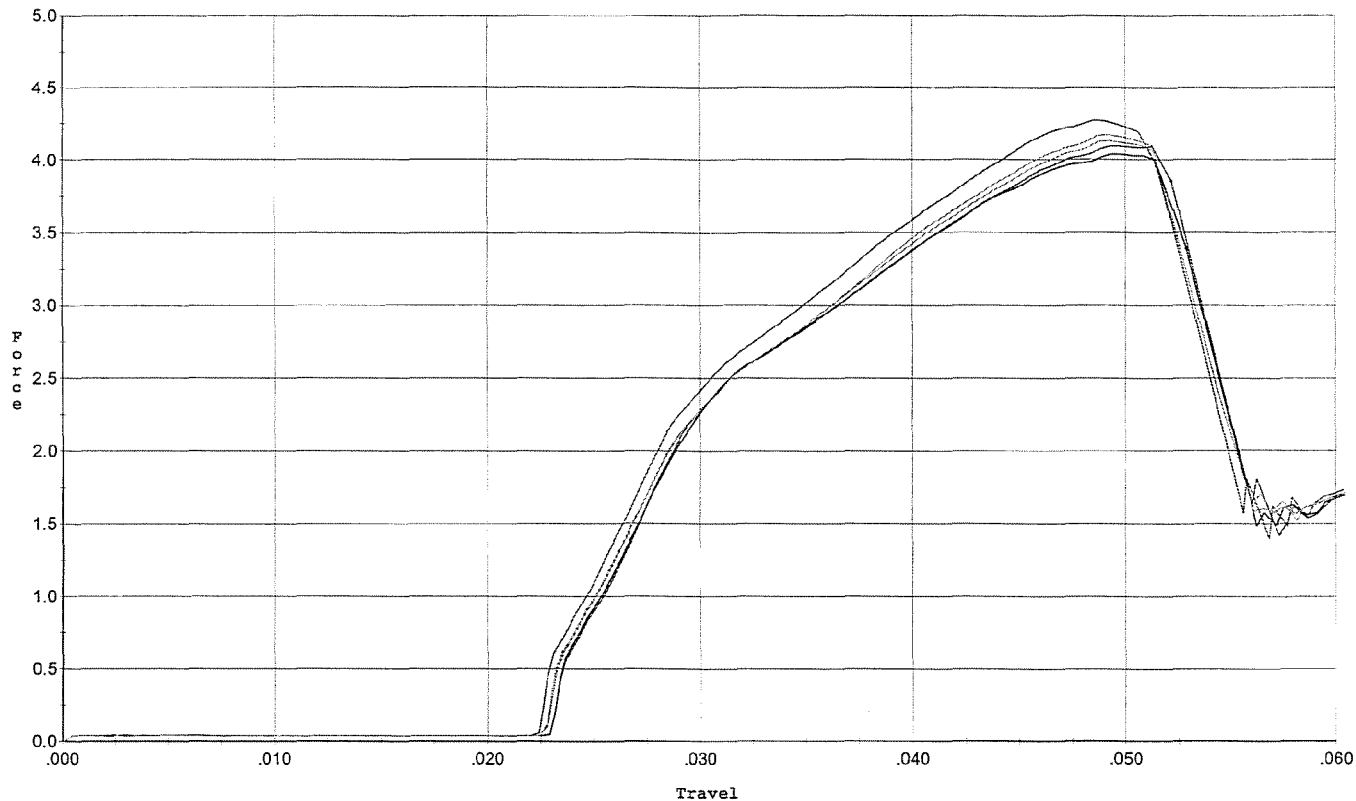
| # | Peak Force | Travel To Actuate | Initial Take-up | Overtravel | Energy To Actuate | Lock Time | Action Type |
|---|------------|-------------------|-----------------|------------|-------------------|-----------|-------------|
| 1 | 3.232      | 0.051             | 0.024           | 0.036      | 0.063             |           | Set Trigger |
| 2 | 3.193      | 0.051             | 0.025           | 0.035      | 0.061             |           | Set Trigger |
| 3 | 3.311      | 0.051             | 0.024           | 0.035      | 0.064             |           | Set Trigger |
| 4 | 3.233      | 0.051             | 0.024           | 0.036      | 0.062             |           | Set Trigger |
| 5 | 3.231      | 0.051             | 0.025           | 0.036      | 0.061             |           | Set Trigger |

A-3.24

## Trigger Profile [ lbs,inch ]

Profile SWS  
 GunType: Rifle  
 Make: Remington  
 Note: cms 8/31/2009

Model: M/24  
 Serial No: Form #F005  
 Trigger: 4.0 lbs ini +/- 1.0 lb



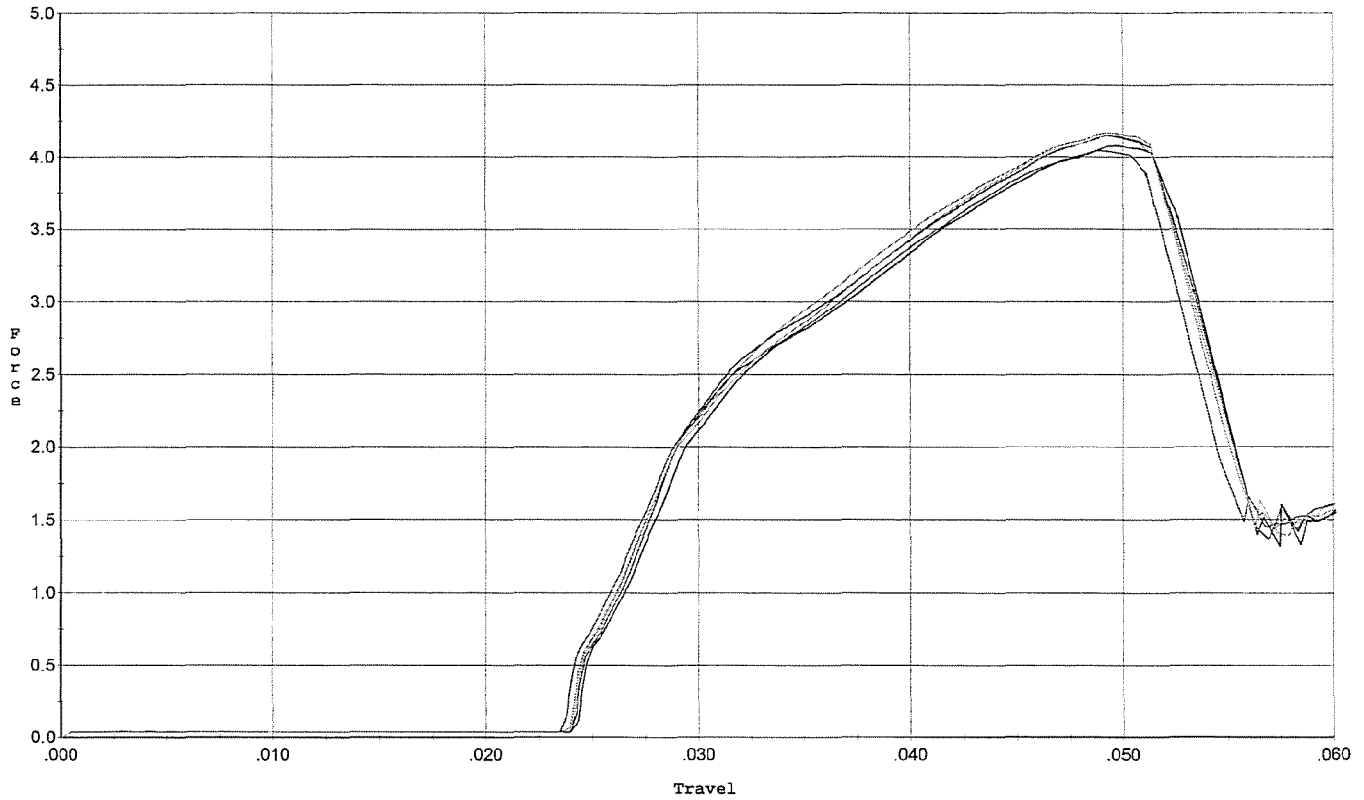
| # | Peak Force | Travel To Actuate | Initial Take-up | Overtravel | Energy To Actuate | Lock Time | Action Type |
|---|------------|-------------------|-----------------|------------|-------------------|-----------|-------------|
| 1 | 4.095      | 0.052             | 0.023           | 0.032      | 0.088             |           | Set Trigger |
| 2 | 4.037      | 0.053             | 0.023           | 0.032      | 0.088             |           | Set Trigger |
| 3 | 4.274      | 0.051             | 0.023           | 0.032      | 0.091             |           | Set Trigger |
| 4 | 4.132      | 0.051             | 0.023           | 0.033      | 0.087             |           | Set Trigger |
| 5 | 4.173      | 0.051             | 0.023           | 0.033      | 0.087             |           | Set Trigger |

A-4-14

## Trigger Profile [ lbs,inch ]

Profile SWS  
 GunType: Rifle  
 Make: Remington  
 Note: cms 8/31/2009

Model: M/24  
 Serial No: Form #F005  
 Trigger: 4.0 lbs after 20 cycles+/- 1.0 lb



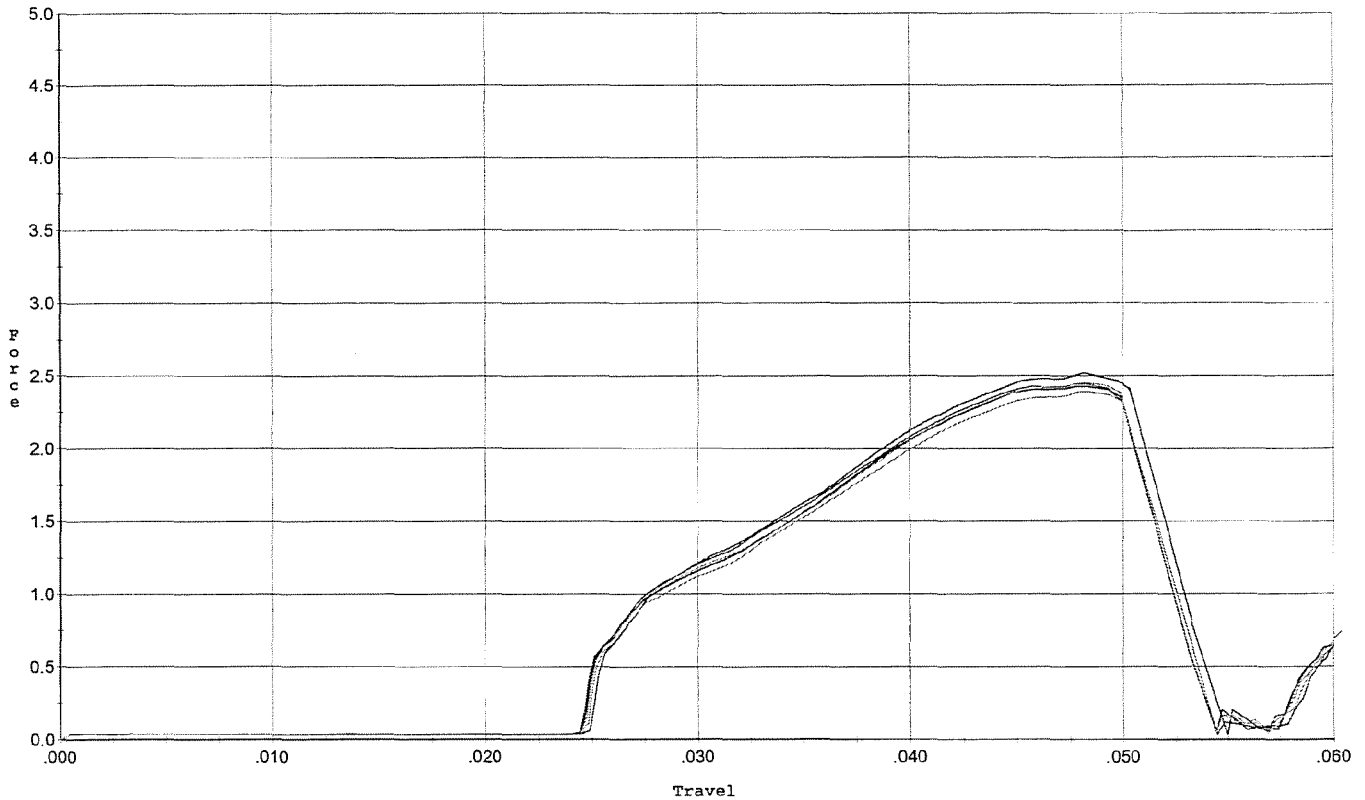
| # | Peak Force | Travel To Actuate | Initial Take-up | Overtravel | Energy To Actuate | Lock Time | Action Type |
|---|------------|-------------------|-----------------|------------|-------------------|-----------|-------------|
| 1 | 4.152      | 0.053             | 0.024           | 0.032      | 0.089             |           | Set Trigger |
| 2 | 4.081      | 0.053             | 0.024           | 0.033      | 0.086             |           | Set Trigger |
| 3 | 4.045      | 0.051             | 0.024           | 0.033      | 0.083             |           | Set Trigger |
| 4 | 4.147      | 0.051             | 0.024           | 0.033      | 0.085             |           | Set Trigger |
| 5 | 4.168      | 0.051             | 0.024           | 0.033      | 0.085             |           | Set Trigger |

4-4-11

## Trigger Profile [ lbs,inch ]

Profile SWS  
GunType: Rifle  
Make: Remington  
Note: cms 8/31/2009

Model: M/24  
Serial No: Form #F005  
Trigger: reset to 2.5 lbs +/- .50 lb for final test



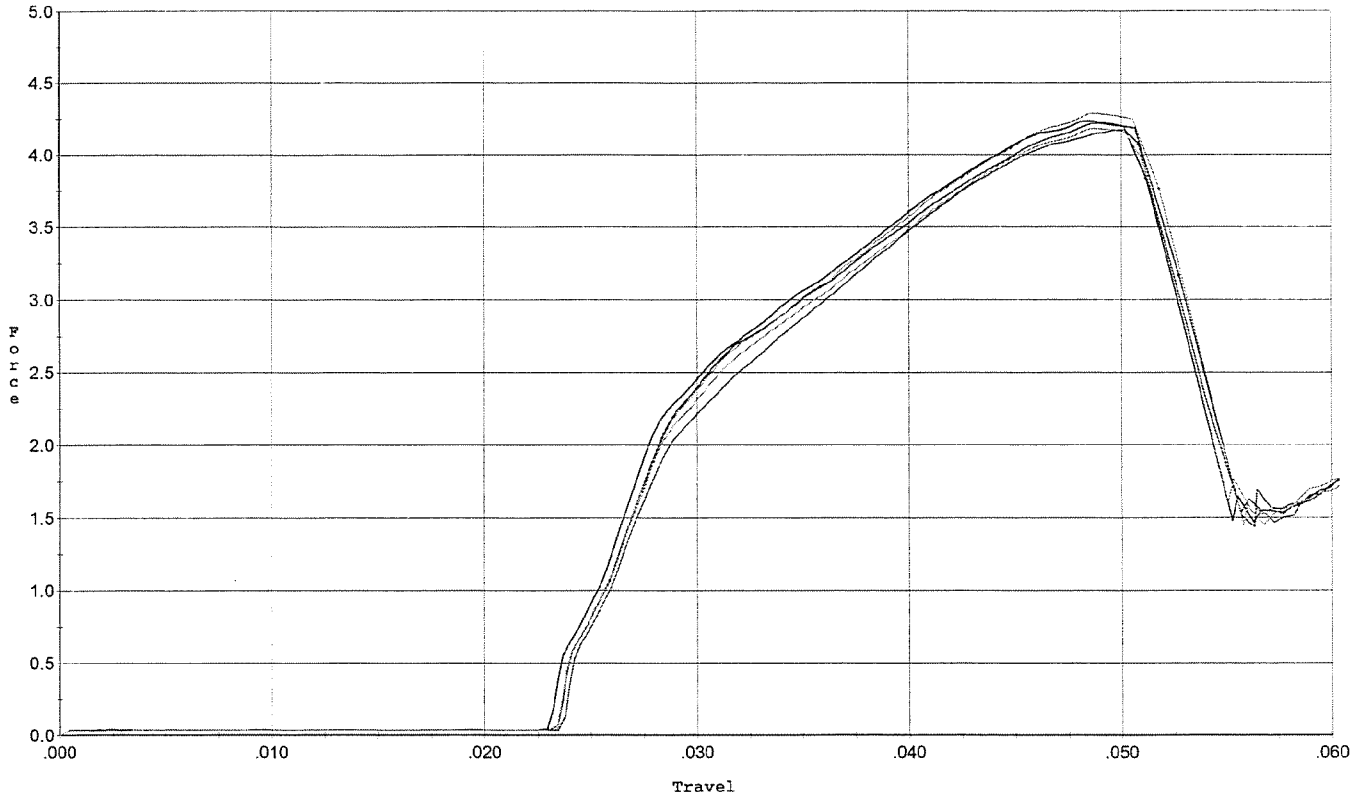
| # | Peak Force | Travel To Actuate | Initial Take-up | Overtravel | Energy To Actuate | Lock Time | Action Type |
|---|------------|-------------------|-----------------|------------|-------------------|-----------|-------------|
| 1 | 2.520      | 0.050             | 0.025           | 0.037      | 0.048             |           | Set Trigger |
| 2 | 2.429      | 0.050             | 0.025           | 0.038      | 0.046             |           | Set Trigger |
| 3 | 2.445      | 0.050             | 0.025           | 0.038      | 0.047             |           | Set Trigger |
| 4 | 2.392      | 0.050             | 0.025           | 0.038      | 0.045             |           | Set Trigger |
| 5 | 2.455      | 0.050             | 0.025           | 0.038      | 0.046             |           | Set Trigger |

A 2.44

## Trigger Profile [ lbs,inch ]

Profile SWS  
 GunType: Rifle  
 Make: Remington  
 Note: cms 8/31/2009

Model: M/24  
 Serial No: Form #F005  
 Trigger: set to 4.0 lbs +/- 1.0 lb for target & accuracy



| # | Peak Force | Travel To Actuate | Initial Take-up | Overtravel | Energy To Actuate | Lock Time | Action Type |
|---|------------|-------------------|-----------------|------------|-------------------|-----------|-------------|
| 1 | 4.217      | 0.053             | 0.024           | 0.032      | 0.090             |           | Set Trigger |
| 2 | 4.235      | 0.051             | 0.023           | 0.032      | 0.088             |           | Set Trigger |
| 3 | 4.174      | 0.051             | 0.024           | 0.033      | 0.084             |           | Set Trigger |
| 4 | 4.183      | 0.051             | 0.024           | 0.032      | 0.085             |           | Set Trigger |
| 5 | 4.286      | 0.052             | 0.024           | 0.032      | 0.089             |           | Set Trigger |

A-24-21

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: G6863596.\_\_\_0  
FILE DATE AND TIME: 09/23/2009 08:09

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

|                                                             |        |
|-------------------------------------------------------------|--------|
| The Average X Centroid of the Five Target Set:              | -0.022 |
| The Average Y Centroid of the Five Target Set:              | -0.038 |
| The Average Point of Impact of the Five Target Set:         | 0.044  |
| The Average Mean Radius of the Five Target Set:             | 0.594  |
| The Distance from POA to Centroid Target #1:                | 0.097  |
| The Distance from Centroid Target #2 to Centroid Target #1: | 0.043  |
| The Distance from Centroid Target #3 to Centroid Target #1: | 0.284  |
| The Distance from Centroid Target #4 to Centroid Target #1: | 0.187  |
| The Distance from Centroid Target #5 to Centroid Target #1: | 0.169  |

SERIAL NUMBER: G6863596. \_\_0

TARGET NUMBER: 1

FILE DATE: 09/23/2009

FILE TIME: 08:09

X CENTROID: 0.014

Y CENTROID: -0.095

POA TO CENTROID: 0.097

HORZ SPREAD: 1.128

VERT SPREAD: 1.136

GROUP SPREAD: 1.464

MIN RADIUS: 0.157

MAX RADIUS: 0.846

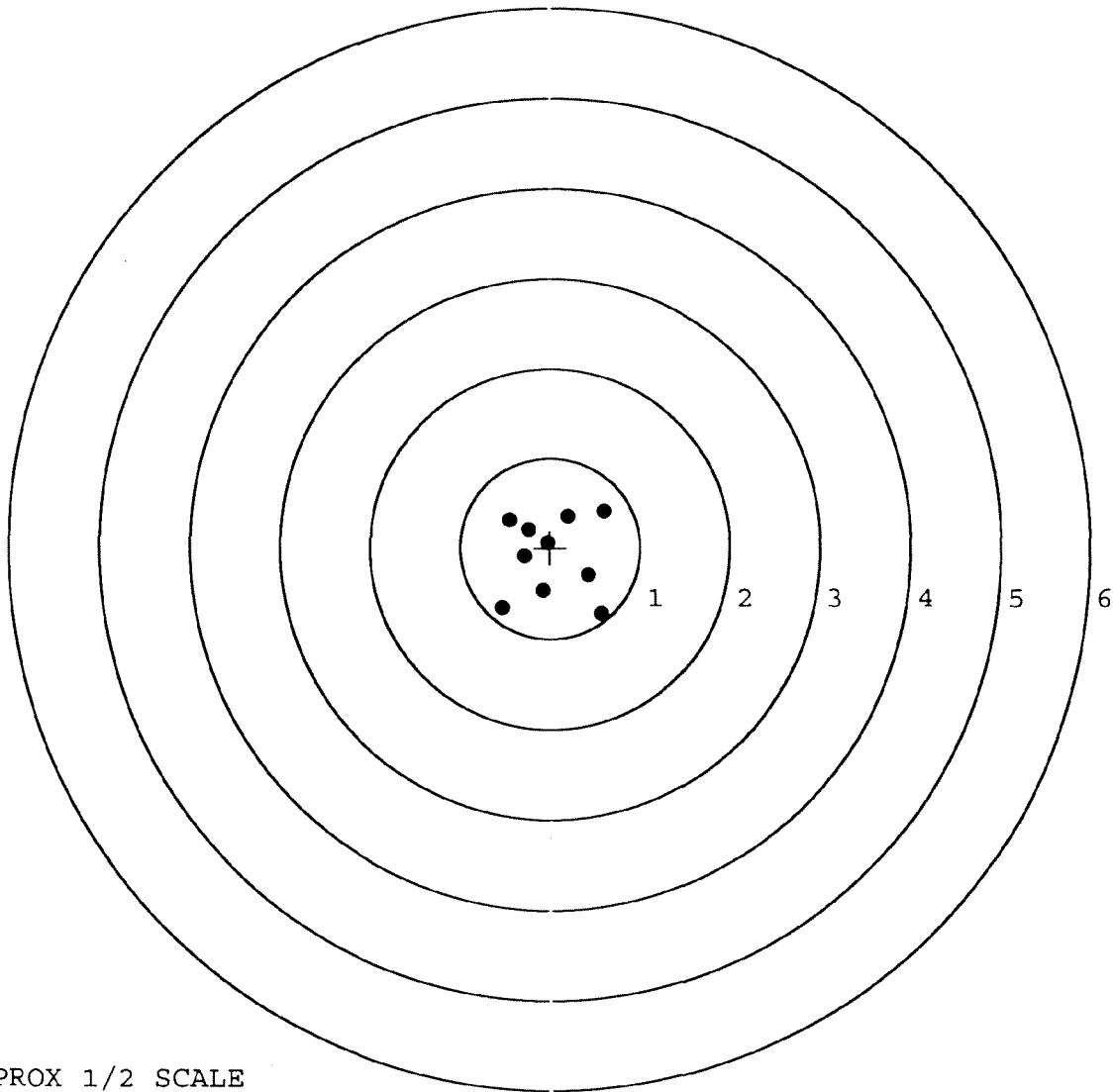
MEAN RADIUS: 0.522

# IN 1 IN DIAMETER: 6

# IN 2 IN DIAMETER: 10

# in 3 IN DIAMETER: 10

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 0.572  | -0.732 |
| 2:     | 0.425  | -0.303 |
| 3:     | -0.085 | -0.479 |
| 4:     | -0.534 | -0.663 |
| 5:     | 0.594  | 0.404  |
| 6:     | 0.200  | 0.348  |
| 7:     | -0.032 | 0.054  |
| 8:     | -0.291 | -0.094 |
| 9:     | -0.250 | 0.200  |
| 10:    | -0.456 | 0.310  |



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6863596. 0

TARGET NUMBER: 2

FILE DATE: 09/23/2009

FILE TIME: 08:09

X CENTROID: 0.025

Y CENTROID: -0.054

POA TO CENTROID: 0.060

HORZ SPREAD: 2.066

VERT SPREAD: 1.468

GROUP SPREAD: 2.183

MIN RADIUS: 0.021

MAX RADIUS: 1.522

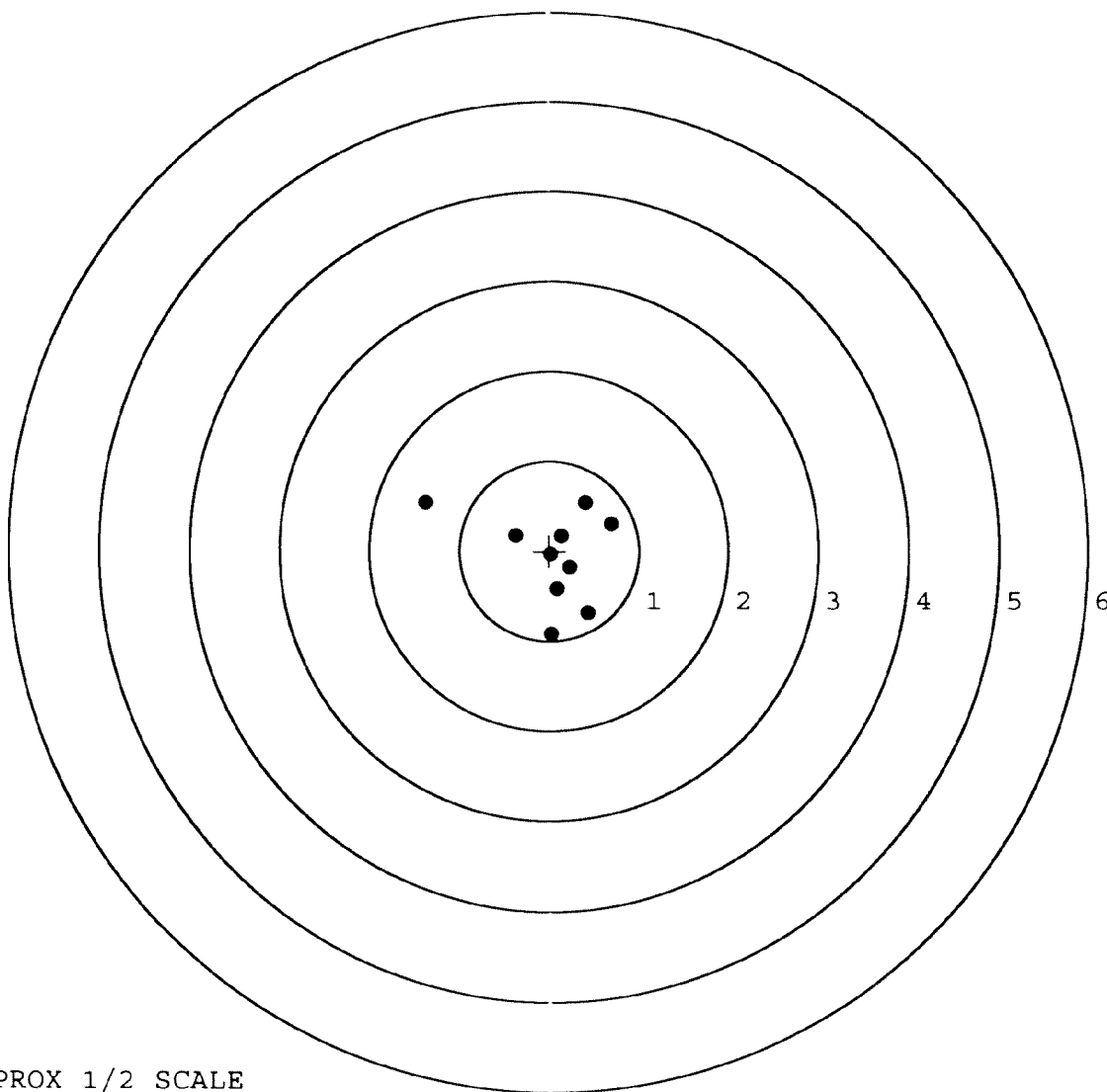
MEAN RADIUS: 0.595

# IN 1 IN DIAMETER: 5

# IN 2 IN DIAMETER: 9

# in 3 IN DIAMETER: 9

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | -1.379 | 0.534  |
| 2:     | -0.377 | 0.174  |
| 3:     | 0.403  | 0.538  |
| 4:     | 0.687  | 0.304  |
| 5:     | 0.136  | 0.168  |
| 6:     | 0.014  | -0.036 |
| 7:     | 0.228  | -0.183 |
| 8:     | 0.087  | -0.420 |
| 9:     | 0.429  | -0.690 |
| 10:    | 0.022  | -0.930 |



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6863596. \_\_0

TARGET NUMBER: 3

FILE DATE: 09/23/2009

FILE TIME: 08:09

X CENTROID: -0.269

Y CENTROID: -0.088

POA TO CENTROID: 0.283

HORZ SPREAD: 2.062

VERT SPREAD: 2.834

GROUP SPREAD: 2.895

MIN RADIUS: 0.336

MAX RADIUS: 1.768

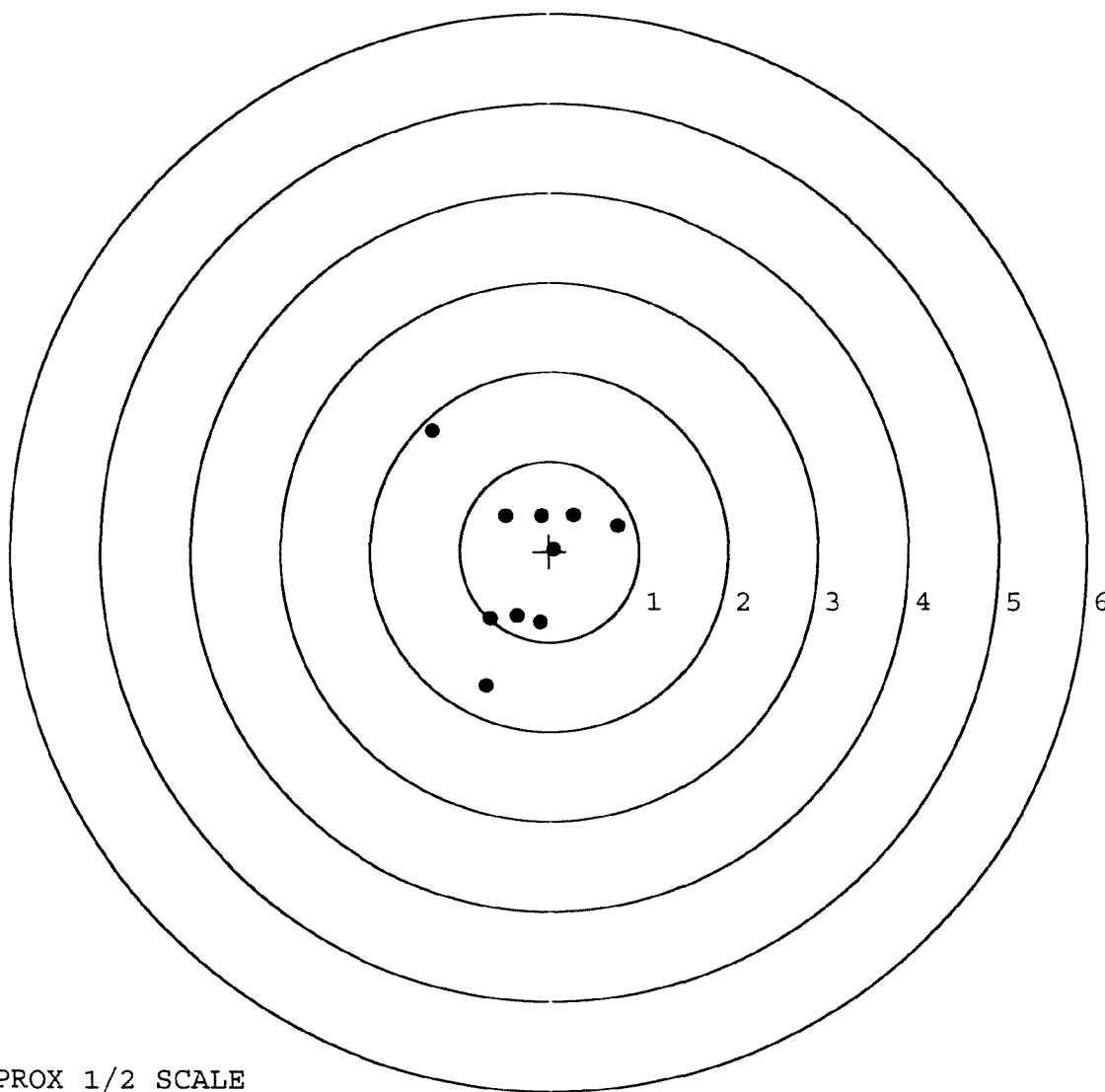
MEAN RADIUS: 0.855

# IN 1 IN DIAMETER: 1

# IN 2 IN DIAMETER: 7

# in 3 IN DIAMETER: 9

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | -1.304 | 1.345  |
| 2:     | -0.500 | 0.394  |
| 3:     | -0.099 | 0.398  |
| 4:     | 0.266  | 0.403  |
| 5:     | 0.758  | 0.281  |
| 6:     | 0.048  | 0.022  |
| 7:     | -0.110 | -0.785 |
| 8:     | -0.373 | -0.710 |
| 9:     | -0.666 | -0.741 |
| 10:    | -0.713 | -1.489 |



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6863596. \_\_0

TARGET NUMBER: 4

FILE DATE: 09/23/2009

FILE TIME: 08:09

X CENTROID: -0.051

Y CENTROID: 0.079

POA TO CENTROID: 0.094

HORZ SPREAD: 1.540

VERT SPREAD: 1.285

GROUP SPREAD: 1.569

MIN RADIUS: 0.132

MAX RADIUS: 0.959

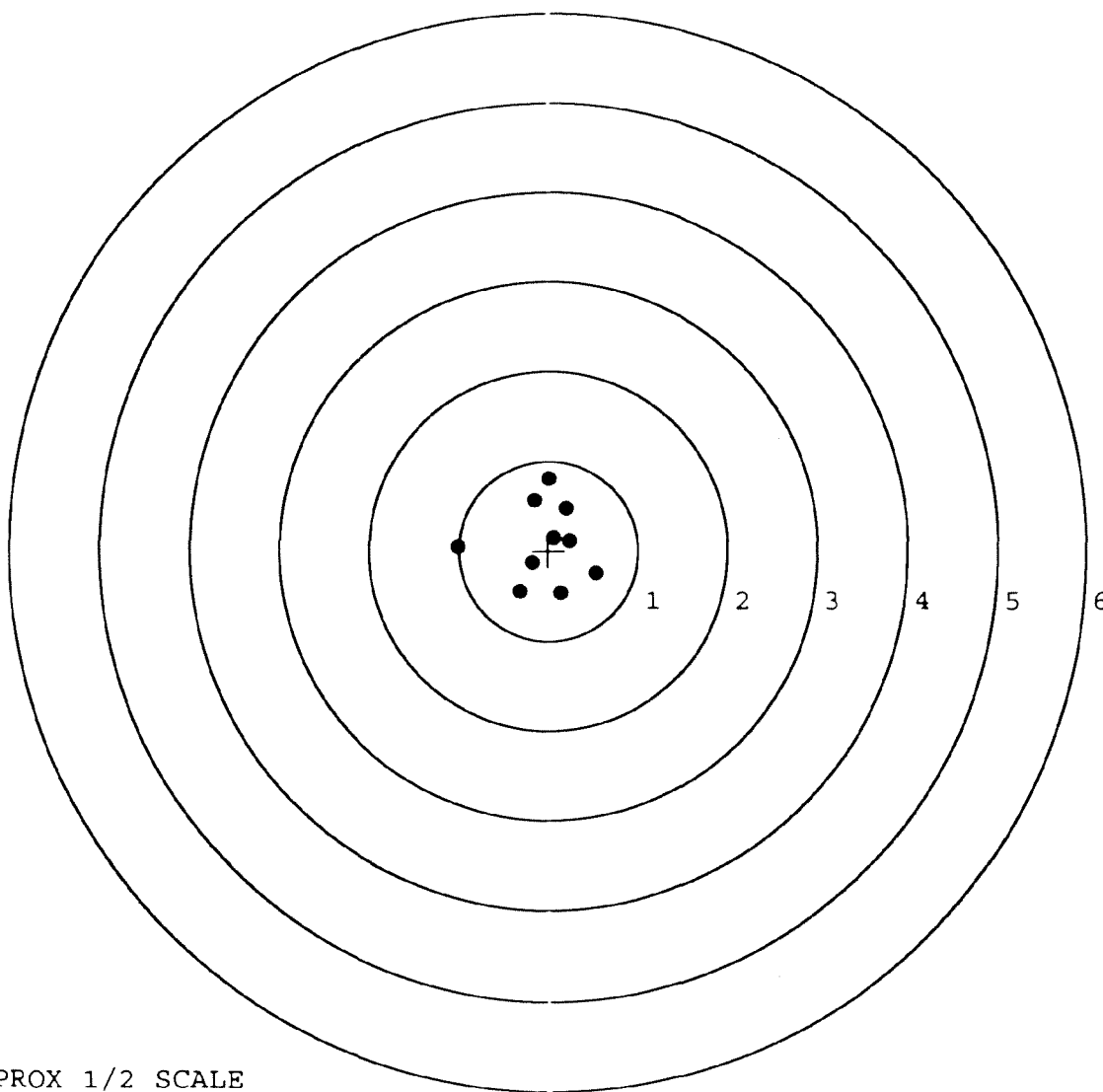
MEAN RADIUS: 0.518

# IN 1 IN DIAMETER: 5

# IN 2 IN DIAMETER: 10

# in 3 IN DIAMETER: 10

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | -1.010 | 0.040  |
| 2:     | -0.321 | -0.458 |
| 3:     | -0.181 | -0.140 |
| 4:     | 0.136  | -0.479 |
| 5:     | 0.530  | -0.258 |
| 6:     | 0.003  | 0.806  |
| 7:     | -0.162 | 0.563  |
| 8:     | 0.194  | 0.467  |
| 9:     | 0.234  | 0.107  |
| 10:    | 0.064  | 0.143  |



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6863596. \_\_ 0

TARGET NUMBER: 5

FILE DATE: 09/23/2009

FILE TIME: 08:09

X CENTROID: 0.171

Y CENTROID: -0.034

POA TO CENTROID: 0.175

HORZ SPREAD: 1.168

VERT SPREAD: 1.397

GROUP SPREAD: 1.585

MIN RADIUS: 0.138

MAX RADIUS: 1.146

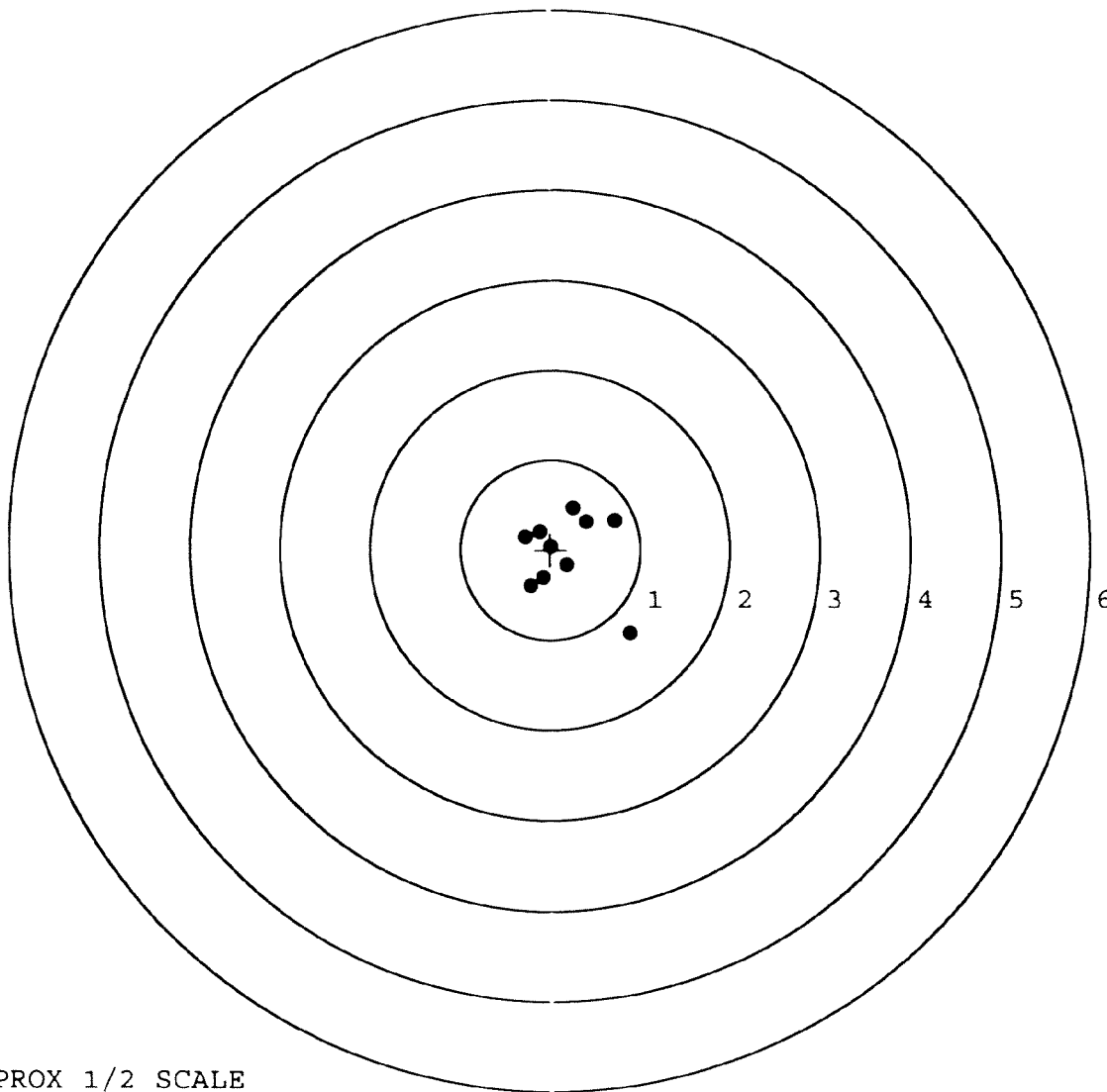
MEAN RADIUS: 0.483

# IN 1 IN DIAMETER: 6

# IN 2 IN DIAMETER: 9

# in 3 IN DIAMETER: 10

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 0.248  | 0.465  |
| 2:     | 0.397  | 0.313  |
| 3:     | 0.719  | 0.322  |
| 4:     | 0.883  | -0.932 |
| 5:     | -0.225 | -0.406 |
| 6:     | -0.080 | -0.309 |
| 7:     | 0.182  | -0.171 |
| 8:     | -0.285 | 0.140  |
| 9:     | -0.124 | 0.206  |
| 10:    | -0.003 | 0.034  |



TARGET APPROX 1/2 SCALE

**Remington**



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

**MODEL 700™ M24**

**SERIAL NO.**  
**C6349217**

**ORDER NO.**  
**5716**

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

01



5716 C6349217

**UPC**



**BARBER - M24 0093534**

**CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER  
KINZER V. REMINGTON**

**BARBER - M24 0093534 00935373**

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6349217

| OP. #        | OP. NAME                                                       | READINGS | DATE    | INIT |
|--------------|----------------------------------------------------------------|----------|---------|------|
| 575 &<br>580 | Assemble Action<br>and Stock                                   | 5 2      | 90      | RW   |
| 600          | Proof                                                          | 5 2      | 90      | RW   |
| 607          | Check Headspace                                                | 5 2      | 90      | RW   |
| 610          | Dis-assemble Gun                                               | 5 2      | 90      | RW   |
| 612          | Magnaflux Barrel<br>Action                                     | 5-8-90   |         | KCR  |
|              | Magnaflux Bolt                                                 | 5-8-90   |         | KCR  |
| 615          | Rollmark Caliber                                               |          | 5/8/90  | CS   |
| 617          | Drill and Tap Sight Holes                                      |          | 5/9/90  | FB   |
| 618          | Polish Barrel RW                                               |          | 5/10/90 | WB   |
| 620          | Apply Coatings<br>(Barrel Action)                              |          | 5/16/90 | TJA  |
|              | Apply Coating (Bolt)                                           |          |         |      |
| 625          | Final Assembly<br>A) Clean inside of<br>Bolt Assembly          |          | 5/18/90 | RW   |
|              | B) Inspect Rear Firing<br>Pin Hole for Chamfer<br>in Bolt Head |          | 5/18/90 | RW   |
|              | C) Inspect Ejector Hole<br>for Chamfer                         |          | 5/18/90 | RW   |
|              | D) Oil Firing Pin Ass'y                                        |          | 5/18/90 | RW   |
|              | E) Adjust Trigger Pull to<br>Min Setting and Stake             |          | 5/21/90 | 21   |

**BARBER - M24 0093536**

| op. #        | OP. NAME                                                    | READINGS |       |       |     |     | DATE      | INIT |
|--------------|-------------------------------------------------------------|----------|-------|-------|-----|-----|-----------|------|
| 625<br>cont. | F) Safety On Force                                          | 5 1/2    | 5 1/2 | 5 1/2 |     |     | 5/22/90   | WB   |
|              | G) Safety Off Force                                         | 2 1/4    | 2 1/4 | 2     |     |     | 5/22/90   | WB   |
|              | H) Trigger Pull Test & Retainability                        |          |       |       |     |     | 5/21/90   | HL   |
|              | I) Firing Pin Indent                                        | .0225    | .023  | .023  |     |     | 5/22/90   | WB   |
|              | J) Assemble Stock                                           |          |       |       |     |     | 5/22/90   | RW   |
|              | K) Assemble Swivel Studs                                    |          |       |       |     |     | 24 May 90 | DS   |
|              | L) Attach Front and Rear Sight Assemblies                   |          |       |       |     |     | 5/22/90   | RW   |
|              | M) Iron Sight Alignment                                     |          |       |       |     |     | 5/22/90   | RW   |
|              | N) Detach Front & Rear Sights & place in numbered container |          |       |       |     |     | 5/22/90   | RW   |
|              | O) Attach Scope to Rifle                                    |          |       |       |     |     | 5/22/90   | WB   |
|              | P) Detach & Attach Scope 20 Times                           |          |       |       |     |     | 5/22/90   | WB   |
| 640          | Gallery Target & Test                                       |          |       |       |     |     | 5-22-90   | DH   |
|              | A) Time                                                     |          |       |       |     |     | 5-22-90   | DH   |
|              | B) Malfunctions                                             |          |       |       |     |     | 5-22-90   | DH   |
|              | C) Pierced Primers                                          |          |       |       |     |     | 5-22-90   | DH   |
|              | D) Optical Clarity of Scope                                 |          |       |       |     |     | 5-22-90   | DH   |
| 645          | Inspect for Live Ammo                                       |          |       |       |     |     | 5-22-90   | DH   |
| 655          | Final Inspection                                            |          |       |       |     |     |           |      |
|              | A) Headspace                                                |          |       |       |     |     | 24 May 90 | DS   |
|              | B) Trigger Pull                                             | 232      | 229   | 229   | 232 | 227 | 24 May 90 | DS   |
|              | C) Function                                                 |          |       |       |     |     | 24 May 90 | DS   |
| 660          | Pack                                                        |          |       |       |     |     | 6/20/90   | DH   |

T.M.

AVERAGE PULL FORCE BETWEEN  
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO 06349217DATE 5/21/90TESTER JH

|         | 2.50#<br>INITIAL | 2.50# AFTER<br>50 CYCLES | FINAL TEST &<br>TO RESET 2.50# |      | COMMENTS                                                               |
|---------|------------------|--------------------------|--------------------------------|------|------------------------------------------------------------------------|
| PULL #1 | 2.20             | 2.33                     | 2.31                           | 2.32 | MIN. SETTING,<br>NO AVG. OF 5<br>READINGS ACCEPT-<br>ABLE LESS THAN 2# |
| PULL #2 | 2.28             | 2.17                     | 2.28                           | 2.29 |                                                                        |
| PULL #3 | 2.18             | 2.26                     | 2.30                           | 2.29 |                                                                        |
| PULL #4 | 2.27             | 2.23                     | 2.24                           | 2.32 |                                                                        |
| PULL #5 | 2.19             | 2.17                     | 2.26                           | 2.27 |                                                                        |
| TOTAL   | 11.12            | 11.16                    | 11.39                          |      |                                                                        |
| AVG.    | 2.224            | 2.232                    | 2.278                          |      |                                                                        |

|         | 3.00#<br>INITIAL | 3.00# AFTER<br>20 CYCLES |  | COMMENTS |
|---------|------------------|--------------------------|--|----------|
| PULL #1 | 3.49             | 3.37                     |  |          |
| PULL #2 | 3.45             | 3.50                     |  |          |
| PULL #3 | 3.52             | 3.45                     |  |          |
| PULL #4 | 3.32             | 3.50                     |  |          |
| PULL #5 | 3.53             | 3.51                     |  |          |
| TOTAL   | 17.31            | 17.33                    |  |          |
| AVG.    | 3.462            | 3.466                    |  |          |

|         | 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 | 4.49             | 4.32                     |                                | 4.06                                 |
| PULL #2 | 4.47             | 4.13                     |                                | 4.15                                 |
| PULL #3 | 4.45             | 4.22                     |                                | 4.19                                 |
| PULL #4 | 4.52             | 4.10                     |                                | 4.14                                 |
| PULL #5 | 4.21             | 4.26                     |                                | 4.22                                 |
| TOTAL   | 22.14            | 21.02                    |                                | 20.76                                |
| AVG.    | 4.428            | 4.204                    |                                | 4.152                                |

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # 06349217  
23 May 1990

CENTROIDAL DISTANCES

|      |   |         |
|------|---|---------|
| 0 TO | 1 | .451701 |
| 1 TO | 2 | .423562 |
| 1 TO | 3 | .361437 |
| 1 TO | 4 | .260526 |
| 1 TO | 5 | .218753 |

$\frac{3}{5}$  <----POA

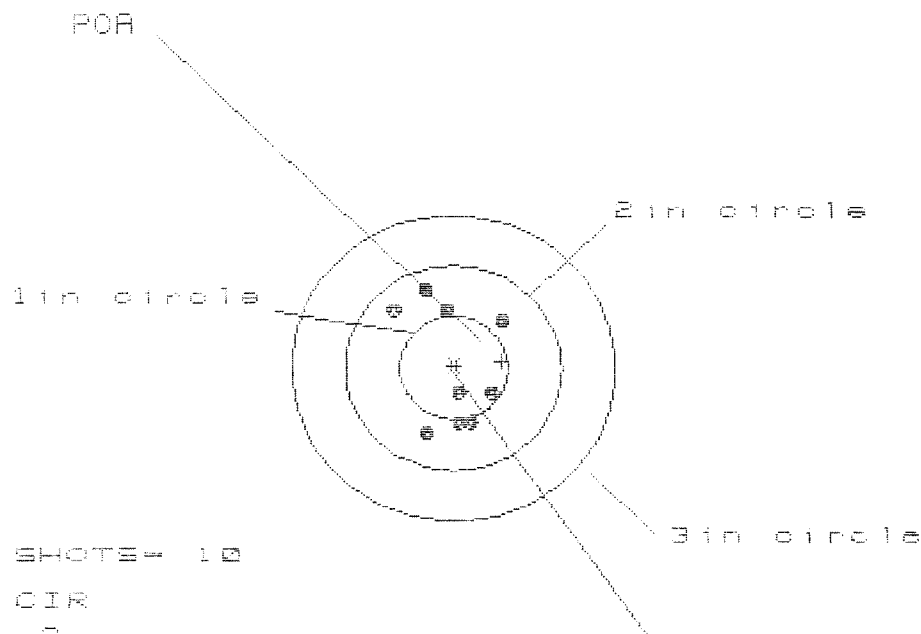
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.3146  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0016  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .314604  
THE AMR FOR THIS RIFLE IS: .7846

22 May 1998

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## CENTERFIRE PATTERNS

# 1



# OF SHOTS = 10

# IN CIR

1 in = 3

2 in = 10

3 in = 10

HSI = .992

VS = 1.416

GS = 1.418

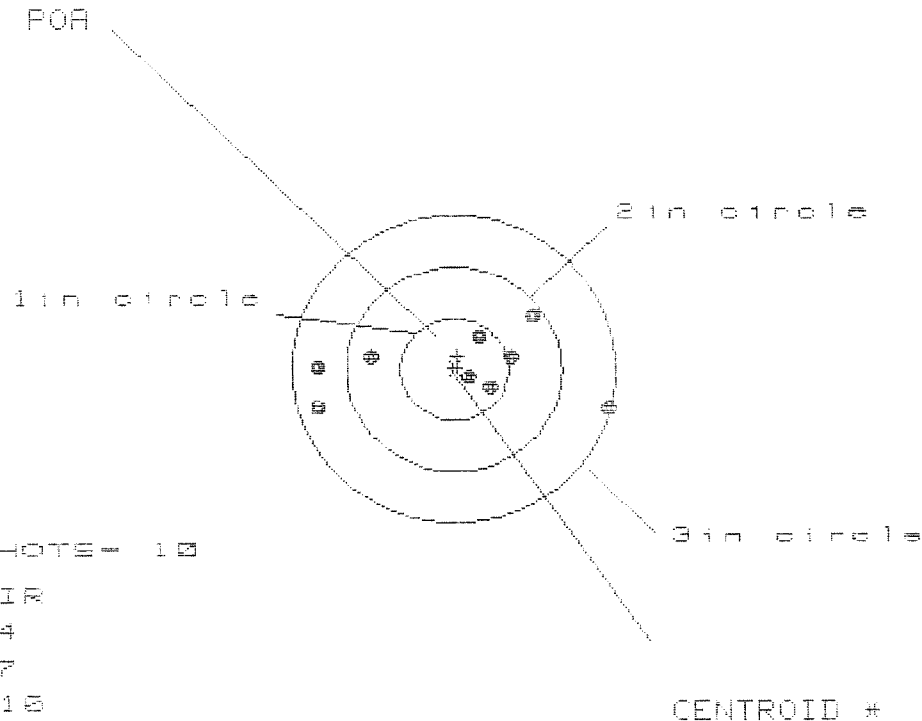
CENTROID \*

| PATTERN #                     | 1     | 2     | 3     |
|-------------------------------|-------|-------|-------|
| SHOTS (BEST OF)               | 10    | 9     | 8     |
| MAXIMUM X                     | .412  | .347  | .306  |
| MINIMUM X                     | -.580 | -.335 | -.310 |
| MAXIMUM Y                     | .768  | .836  | .734  |
| MINIMUM Y                     | -.648 | -.580 | -.475 |
| CENTROID X                    | -.447 | -.382 | -.341 |
| CENTROID Y                    | -.065 | -.133 | -.237 |
| POA TO CENTROID in.           | .452  | .405  | .415  |
| MIN RADIUS                    | .261  | .180  | .076  |
| MEAN RADIUS                   | .560  | .500  | .403  |
| MAX RADIUS                    | .841  | .900  | .761  |
| HORIZONTAL SPREAD             | .992  | .682  | .616  |
| VERTICAL SPREAD               | 1.416 | 1.416 | 1.209 |
| EXTREME SPREAD                | 1.418 | 1.418 | 1.287 |
| NUMBER IN ONE INCH CIRCLE =   | 3     |       |       |
| NUMBER IN TWO INCH CIRCLE =   | 10    |       |       |
| NUMBER IN THREE INCH CIRCLE = | 10    |       |       |

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## CENTERFIRE PATTERNS # 2



# OF SHOTS - 10

# IN CIR

1 in = 4

2 in = 7

3 in = 10

HS = 2.738

VS = .970

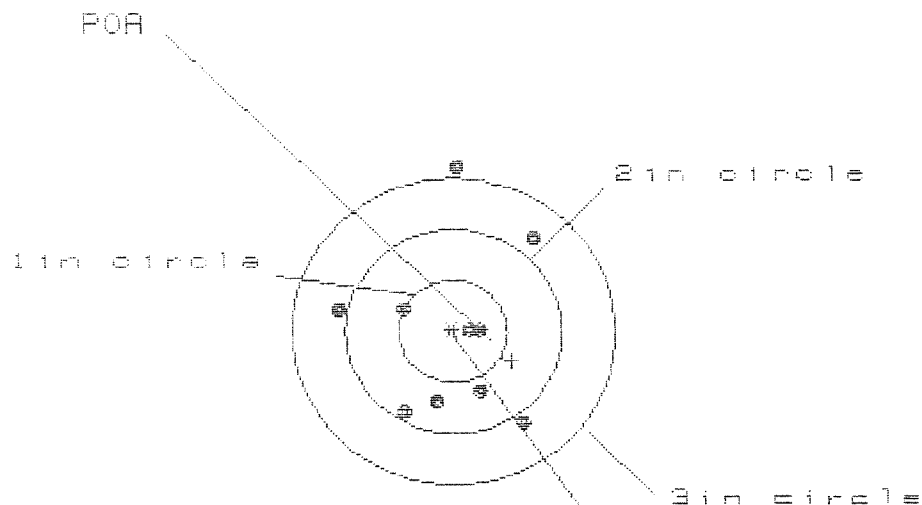
GS = 2.767

| PATTERN #                     | 2      | 2      | 2      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | 1.420  | .852   | .707   |
| MINIMUM X                     | -1.318 | -1.160 | -1.305 |
| MAXIMUM Y                     | .569   | .525   | .463   |
| MINIMUM Y                     | -.401  | -.444  | -.246  |
| CENTROID X                    | -.028  | -.186  | -.041  |
| CENTROID Y                    | -.127  | -.083  | -.027  |
| POA TO CENTROID in.           | .130   | .204   | .049   |
| MIN RADIUS                    | .144   | .302   | .229   |
| MEAN RADIUS                   | .747   | .705   | .586   |
| MAX RADIUS                    | 1.476  | 1.240  | 1.309  |
| HORIZONTAL SPREAD             | 2.738  | 2.012  | 2.012  |
| VERTICAL SPREAD               | .970   | .969   | .715   |
| EXTREME SPREAD                | 2.767  | 2.231  | 2.092  |
| NUMBER IN ONE INCH CIRCLE =   |        | 4      |        |
| NUMBER IN TWO INCH CIRCLE =   |        | 7      |        |
| NUMBER IN THREE INCH CIRCLE = |        | 10     |        |

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## CENTERFIRE PATTERNS # 3



# OF SHOTS = 10

# IN CIR

1in = 3

2in = 6

3in = 9

HS = 1.790

VS = 2.444

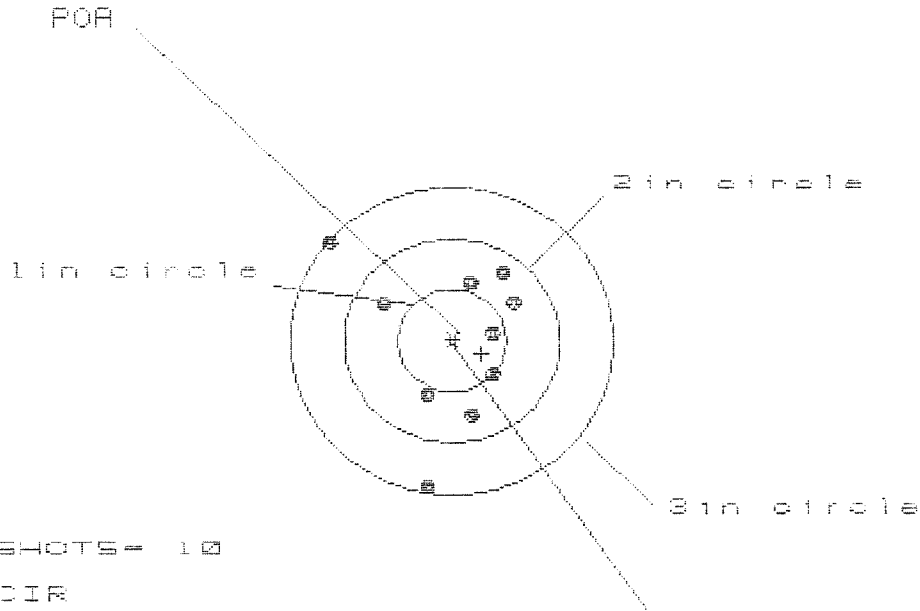
GS = 2.523

| PATTERN #                     | 3      | 3      | 3     |
|-------------------------------|--------|--------|-------|
| SHOTS (BEST OF)               | 10     | 9      | 8     |
| MAXIMUM X                     | .730   | .732   | .741  |
| MINIMUM X                     | -1.050 | -1.048 | -.957 |
| MAXIMUM Y                     | 1.579  | 1.078  | .528  |
| MINIMUM Y                     | -.865  | -.690  | -.555 |
| CENTROID X                    | -.541  | -.543  | -.634 |
| CENTROID Y                    | .284   | .109   | -.026 |
| POA TO CENTROID in.           | .611   | .554   | .635  |
| MIN RADIUS                    | .179   | .271   | .409  |
| MEAN RADIUS                   | .799   | .695   | .616  |
| MAX RADIUS                    | 1.579  | 1.303  | 1.073 |
| HORIZONTAL SPREAD             | 1.700  | 1.700  | 1.698 |
| VERTICAL SPREAD               | 2.444  | 1.768  | 1.083 |
| EXTREME SPREAD                | 2.523  | 2.049  | 1.992 |
| NUMBER IN ONE INCH CIRCLE =   | 3      |        |       |
| NUMBER IN TWO INCH CIRCLE =   | 6      |        |       |
| NUMBER IN THREE INCH CIRCLE = | 9      |        |       |

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## CENTERFIRE PATTERNS # 4



# OF SHOTS= 10

# IN CIR

1 in = 1

2 in = 8

3 in = 10

HS= 1.688

VS= 2.355

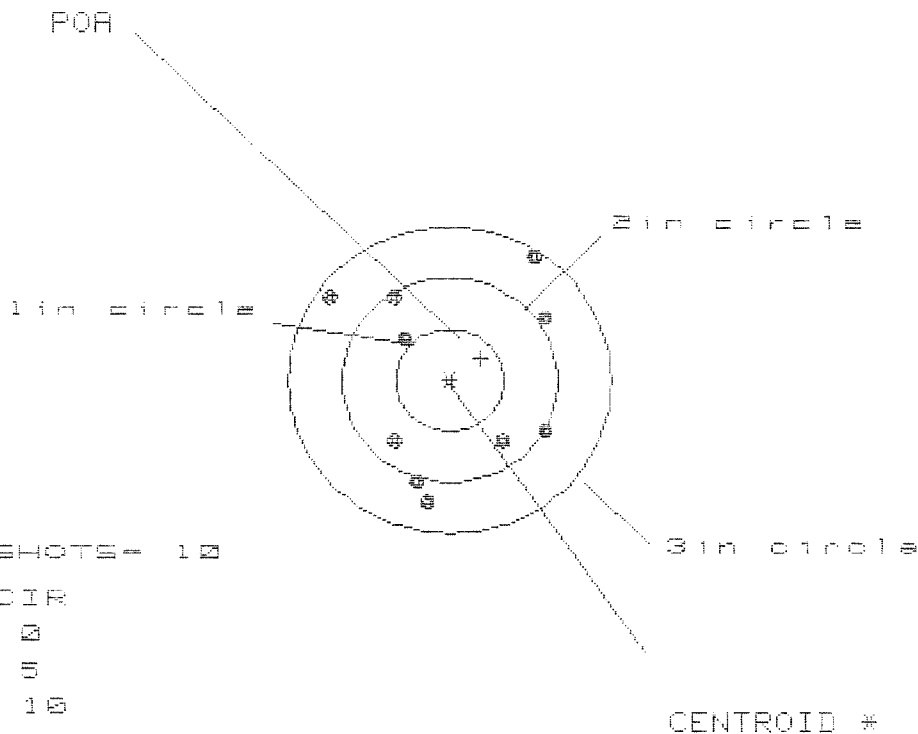
GS= 2.537

| PATTERN #                     | 4      | 9      | 8     |
|-------------------------------|--------|--------|-------|
| SHOTS (BEST OF)               | 10     | 9      | 8     |
| MAXIMUM X                     | .561   | .436   | .397  |
| MINIMUM X                     | -1.127 | -.735  | -.774 |
| MAXIMUM Y                     | .977   | .764   | .605  |
| MINIMUM Y                     | -1.378 | -1.269 | -.805 |
| CENTROID X                    | -.272  | -.147  | -.108 |
| CENTROID Y                    | .128   | .019   | .178  |
| POA TO CENTROID in.           | .301   | .148   | .208  |
| MIN RADIUS                    | .416   | .324   | .250  |
| MEAN RADIUS                   | .791   | .687   | .590  |
| MAX RADIUS                    | 1.492  | 1.307  | .829  |
| HORIZONTAL SPREAD             | 1.688  | 1.171  | 1.171 |
| VERTICAL SPREAD               | 2.355  | 2.033  | 1.410 |
| EXTREME SPREAD                | 2.537  | 2.126  | 1.443 |
| NUMBER IN ONE INCH CIRCLE =   | 1      |        |       |
| NUMBER IN TWO INCH CIRCLE =   | 8      |        |       |
| NUMBER IN THREE INCH CIRCLE = | 10     |        |       |

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## CENTERFIRE PATTERNS # 5



# OF SHOTS = 10

# IN CIR

1 in = 0

2 in = 5

3 in = 10

10 = 0.000

V0 = 0.000

Q0 = 0.000

| PATTERN #                   | : | 5      |        |       |
|-----------------------------|---|--------|--------|-------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8     |
| MAXIMUM X                   | : | .898   | .989   | .855  |
| MINIMUM X                   | : | -1.158 | -1.067 | -.581 |
| MAXIMUM Y                   | : | 1.178  | .972   | 1.093 |
| MINIMUM Y                   | : | -1.211 | -1.080 | -.959 |
| CENTROID X                  | : | -.285  | -.376  | -.242 |
| CENTROID Y                  | : | -.212  | -.343  | -.464 |
| POA TO CENTROID in.         | : | .356   | .509   | .524  |
| MIN RADIUS                  | : | .584   | .591   | .581  |
| MEAN RADIUS                 | : | 1.026  | .963   | .882  |
| MAX RADIUS                  | : | 1.432  | 1.441  | 1.238 |
| HORIZONTAL SPREAD           | : | 2.056  | 2.056  | 1.436 |
| VERTICAL SPREAD             | : | 2.389  | 2.052  | 2.052 |
| EXTREME SPREAD              | : | 2.595  | 2.466  | 2.080 |
| NUMBER IN ONE INCH CIRCLE   | = |        | 0      |       |
| NUMBER IN TWO INCH CIRCLE   | = |        | 5      |       |
| NUMBER IN THREE INCH CIRCLE | = |        | 10     |       |