

C6611584

MODEL 700<sup>TM</sup> M24

Model S&S<sup>TM</sup>

Action \_\_\_\_\_

Barrel Length \_\_\_\_\_

Capacity \_\_\_\_\_

Order No. 5716

\*Includes 1 in chamber.



Arms Services Repair & Estimate System

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

Repair Inquiry

Repair Number: **RE00103095** Serial: C6611584 Model: M24 SWS Center Fire Caliber: 7.62 NATO Produced: 05/18/1991 Repairman: Status: Closed 11/1/2005 3:10:10 PM

Verify Repair: [REDACTED]

**Address Information**

Customer: ☒ Received From: ☐ Return To: ☒ Received From: ☐

Name: **JERRY NELSON STTD** **JERRY NELSON STTD**

Address 1: **1401 ARTILLERY CIRCLE** **1401 ARTILLERY CIRCLE**

Address 2: **ATTN SUPPLY BLDG 978** **ATTN SUPPLY BLDG 978** P.O. Box:

City: **FORT LEONARD WOOD** **FORT LEONARD WOOD**

State: **MO** Zip Code: **65473** Country: **US** State: **MO** Zip Code: **65473** Country: **US**

FFL: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Contact / Condition Problems Estimate History / Status Shipping / Billing

Contact Information: Phone: **800-243-9700** Fax:  Email:  Comments:

Received Condition: Fair Condition Notes:  CSR Notes:

Accessories Received:

| Code | Desc                  | Qty |
|------|-----------------------|-----|
| A007 | With Stud             | 3   |
| A009 | Soft Case             | 1   |
| A017 | Scope Base            | 1   |
| A045 | Bi Pod                | 1   |
| A057 | Frt and Rear Sgt Base | 1   |

Repair Search Refresh Close

11/2/2005 7:21 AM CAPS NUM JNS SCPL

start 2 Arms Services 5 3

Serial Number: **C6611584**

Model: **M24 SWS**



**RE00103095**

[illegible]

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6611584.\_\_0  
FILE DATE AND TIME: 11/18/2005 14:32

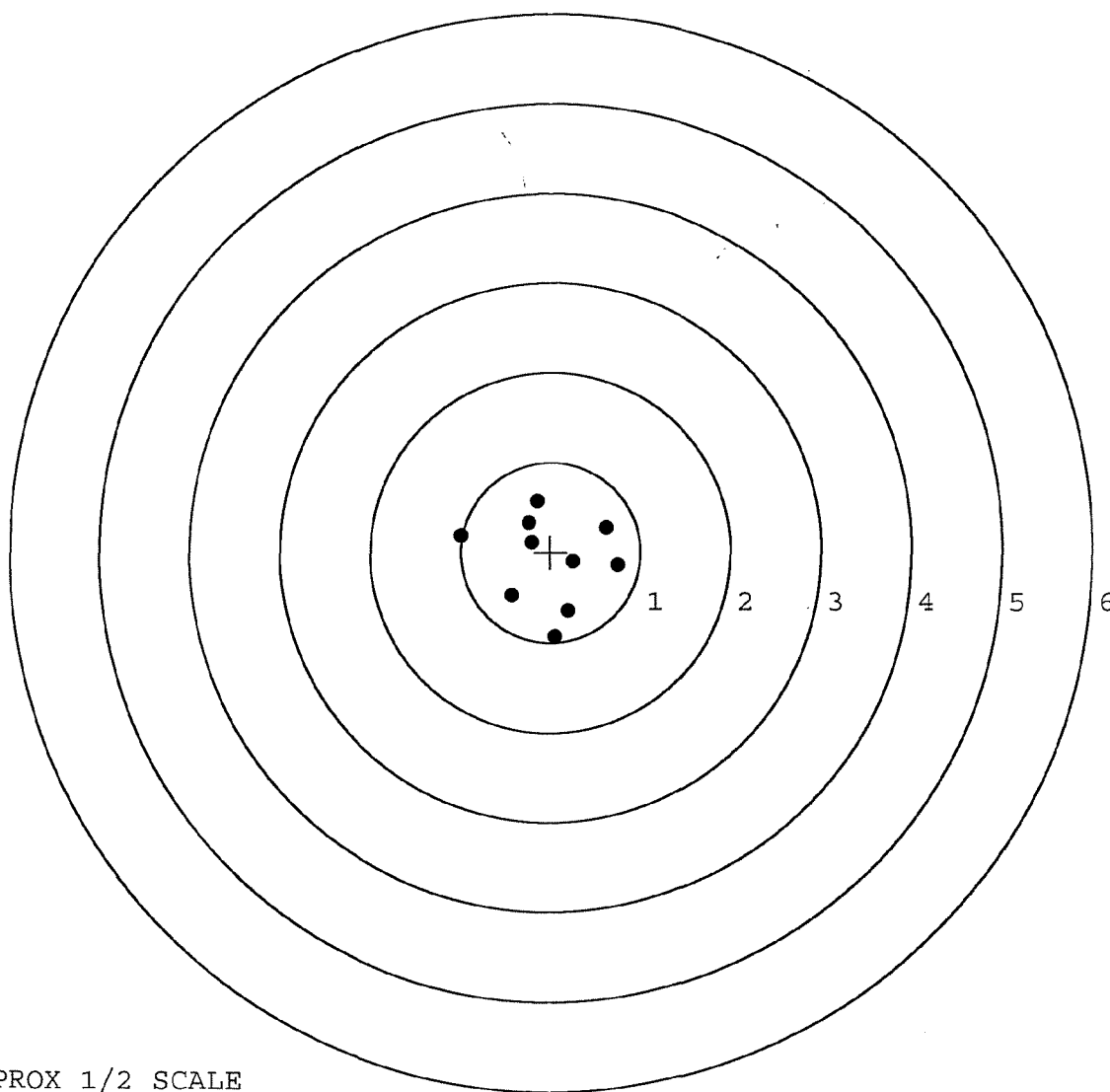
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

|                                                             |        |
|-------------------------------------------------------------|--------|
| The Average X Centroid of the Five Target Set:              | -0.078 |
| The Average Y Centroid of the Five Target Set:              | -0.034 |
| The Average Point of Impact of the Five Target Set:         | 0.085  |
| The Average Mean Radius of the Five Target Set:             | 0.627  |
| The Distance from POA to Centroid Target #1:                | 0.087  |
| The Distance from Centroid Target #2 to Centroid Target #1: | 0.131  |
| The Distance from Centroid Target #3 to Centroid Target #1: | 0.065  |
| The Distance from Centroid Target #4 to Centroid Target #1: | 0.136  |
| The Distance from Centroid Target #5 to Centroid Target #1: | 0.163  |

SERIAL NUMBER: C6611584. 0  
TARGET NUMBER: 1  
FILE DATE: 11/18/2005  
FILE TIME: 14:32

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 0.050  | -0.941 |
| 2:     | 0.202  | -0.659 |
| 3:     | -0.432 | -0.484 |
| 4:     | 0.624  | 0.272  |
| 5:     | -0.153 | 0.572  |
| 6:     | -0.241 | 0.331  |
| 7:     | -0.212 | 0.113  |
| 8:     | -0.996 | 0.193  |
| 9:     | 0.257  | -0.108 |
| 10:    | 0.757  | -0.149 |

X CENTROID: -0.014  
Y CENTROID: -0.086  
POA TO CENTROID: 0.087  
HORZ SPREAD: 1.753  
VERT SPREAD: 1.513  
GROUP SPREAD: 1.786  
MIN RADIUS: 0.272  
MAX RADIUS: 1.020  
MEAN RADIUS: 0.627  
# IN 1 IN DIAMETER: 3  
# IN 2 IN DIAMETER: 9  
# in 3 IN DIAMETER: 10

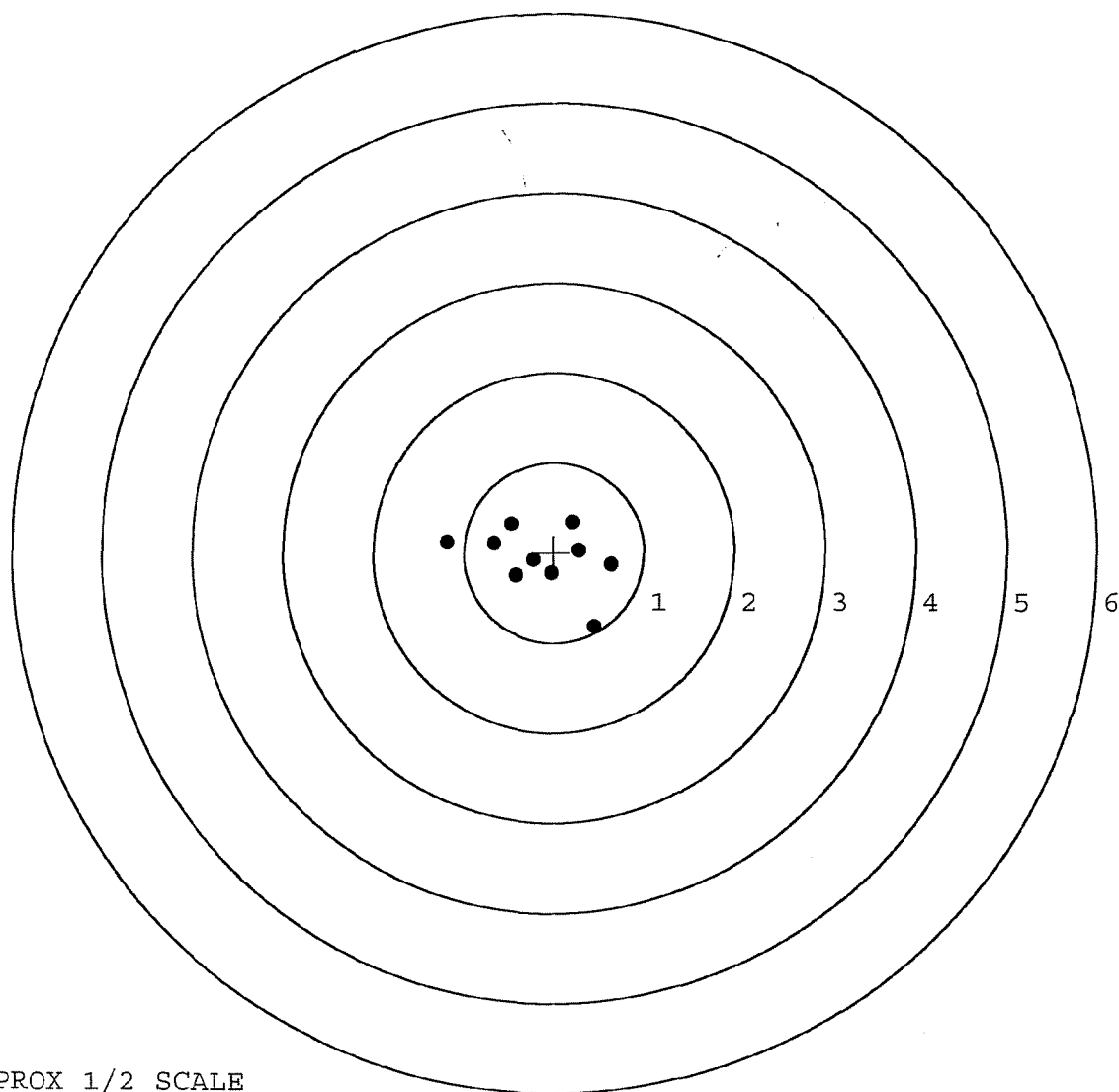


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611584. \_\_0  
TARGET NUMBER: 2  
FILE DATE: 11/18/2005  
FILE TIME: 14:32

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 0.447  | -0.826 |
| 2:     | 0.646  | -0.138 |
| 3:     | 0.278  | 0.023  |
| 4:     | 0.212  | 0.338  |
| 5:     | -0.474 | 0.317  |
| 6:     | -0.668 | 0.102  |
| 7:     | -1.192 | 0.114  |
| 8:     | -0.423 | -0.256 |
| 9:     | -0.230 | -0.086 |
| 10:    | -0.030 | -0.230 |

X CENTROID: -0.143  
Y CENTROID: -0.064  
POA TO CENTROID: 0.157  
HORZ SPREAD: 1.838  
VERT SPREAD: 1.164  
GROUP SPREAD: 1.889  
MIN RADIUS: 0.089  
MAX RADIUS: 1.064  
MEAN RADIUS: 0.547  
# IN 1 IN DIAMETER: 4  
# IN 2 IN DIAMETER: 9  
# in 3 IN DIAMETER: 10

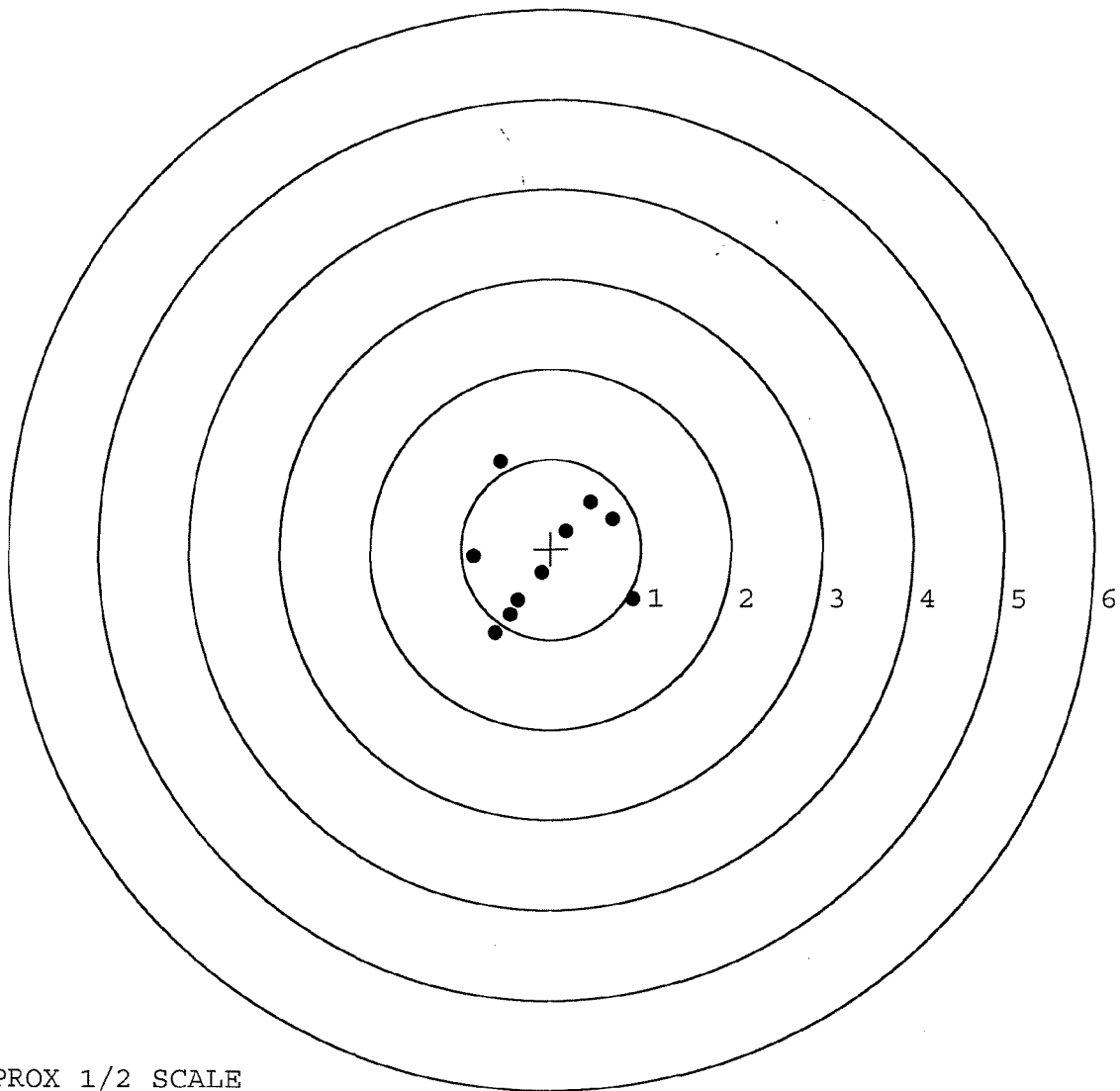


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611584. \_\_0  
TARGET NUMBER: 3  
FILE DATE: 11/18/2005  
FILE TIME: 14:32

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 0.907  | -0.562 |
| 2:     | 0.689  | 0.332  |
| 3:     | 0.446  | 0.519  |
| 4:     | 0.167  | 0.198  |
| 5:     | -0.094 | -0.270 |
| 6:     | -0.366 | -0.573 |
| 7:     | -0.447 | -0.728 |
| 8:     | -0.624 | -0.928 |
| 9:     | -0.855 | -0.082 |
| 10:    | -0.565 | 0.975  |

X CENTROID: -0.074  
Y CENTROID: -0.112  
POA TO CENTROID: 0.134  
HORZ SPREAD: 1.762  
VERT SPREAD: 1.903  
GROUP SPREAD: 2.128  
MIN RADIUS: 0.159  
MAX RADIUS: 1.193  
MEAN RADIUS: 0.756  
# IN 1 IN DIAMETER: 2  
# IN 2 IN DIAMETER: 8  
# in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

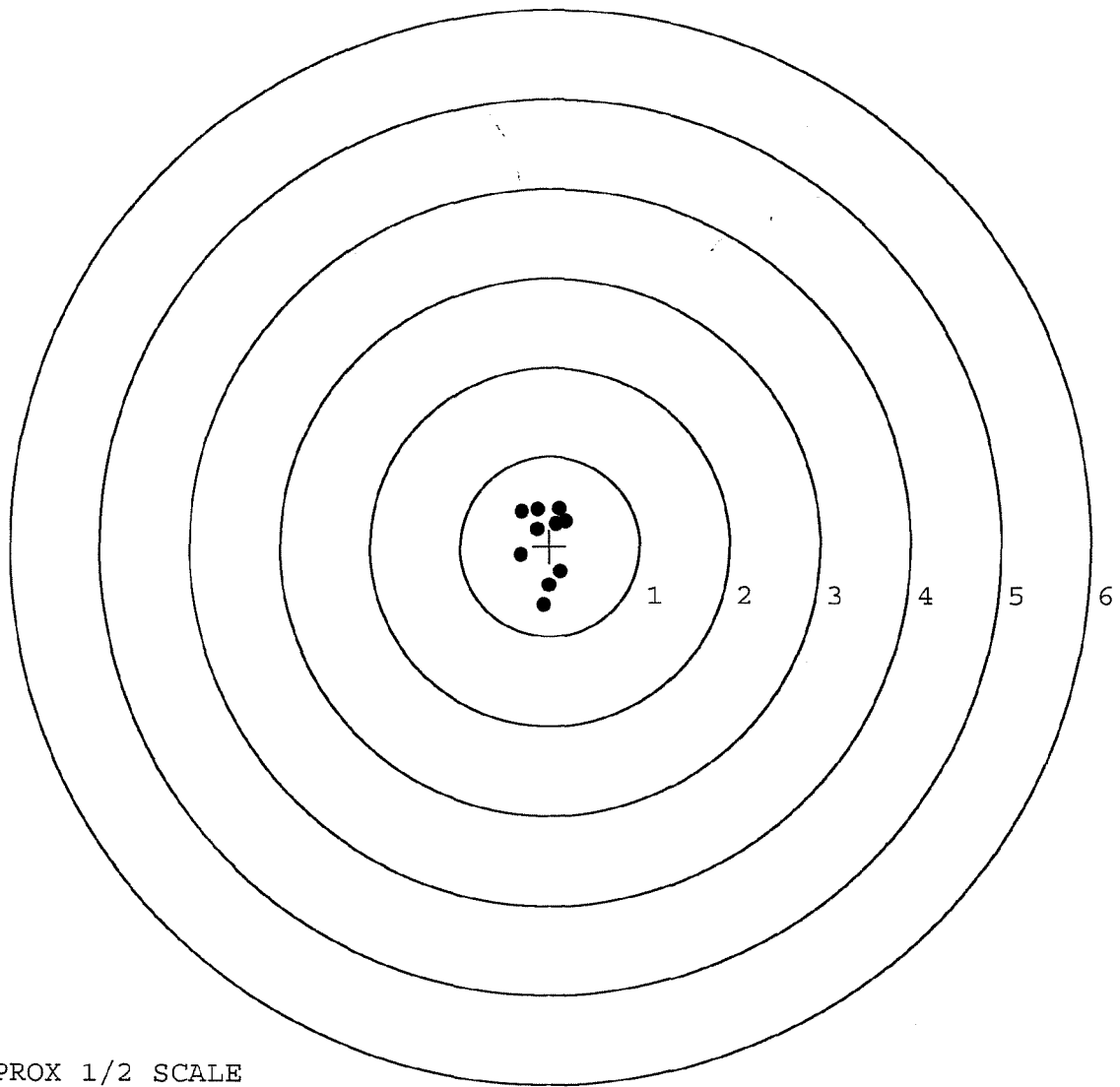
SERIAL NUMBER: C6611584. \_\_0

TARGET NUMBER: 4

FILE DATE: 11/18/2005

FILE TIME: 14:32

|                     | POINT# | X      | Y      |
|---------------------|--------|--------|--------|
|                     | 1:     | -0.067 | -0.659 |
|                     | 2:     | -0.011 | -0.434 |
|                     | 3:     | 0.126  | -0.286 |
|                     | 4:     | -0.324 | -0.098 |
| X CENTROID:         | 5:     | 0.178  | 0.275  |
| Y CENTROID:         | 6:     | 0.113  | 0.415  |
| POA TO CENTROID:    | 7:     | -0.135 | 0.407  |
| HORZ SPREAD:        | 8:     | -0.316 | 0.390  |
| VERT SPREAD:        | 9:     | -0.144 | 0.188  |
| GROUP SPREAD:       | 10:    | 0.069  | 0.247  |
| MIN RADIUS:         |        |        | 0.171  |
| MAX RADIUS:         |        |        | 0.704  |
| MEAN RADIUS:        |        |        | 0.381  |
| # IN 1 IN DIAMETER: |        |        | 9      |
| # IN 2 IN DIAMETER: |        |        | 10     |
| # in 3 IN DIAMETER: |        |        | 10     |



TARGET APPROX 1/2 SCALE



SERIAL NUMBER: C6611584. 0

TARGET NUMBER: 5

FILE DATE: 11/18/2005

FILE TIME: 14:32

| POINT# | X | Y |
|--------|---|---|
|--------|---|---|

|    |       |        |
|----|-------|--------|
| 1: | 0.841 | -0.167 |
|----|-------|--------|

|    |       |       |
|----|-------|-------|
| 2: | 0.546 | 0.525 |
|----|-------|-------|

|    |       |       |
|----|-------|-------|
| 3: | 0.217 | 0.628 |
|----|-------|-------|

|    |        |       |
|----|--------|-------|
| 4: | -0.010 | 0.676 |
|----|--------|-------|

|    |        |       |
|----|--------|-------|
| 5: | -0.393 | 0.475 |
|----|--------|-------|

|    |        |        |
|----|--------|--------|
| 6: | -0.462 | -0.162 |
|----|--------|--------|

|    |        |        |
|----|--------|--------|
| 7: | -0.827 | -0.348 |
|----|--------|--------|

|    |        |        |
|----|--------|--------|
| 8: | -1.390 | -0.641 |
|----|--------|--------|

|    |       |        |
|----|-------|--------|
| 9: | 0.373 | -1.165 |
|----|-------|--------|

|     |       |       |
|-----|-------|-------|
| 10: | 0.044 | 0.662 |
|-----|-------|-------|

X CENTROID: -0.106

Y CENTROID: 0.048

POA TO CENTROID: 0.117

HORZ SPREAD: 2.231

VERT SPREAD: 1.841

GROUP SPREAD: 2.281

MIN RADIUS: 0.413

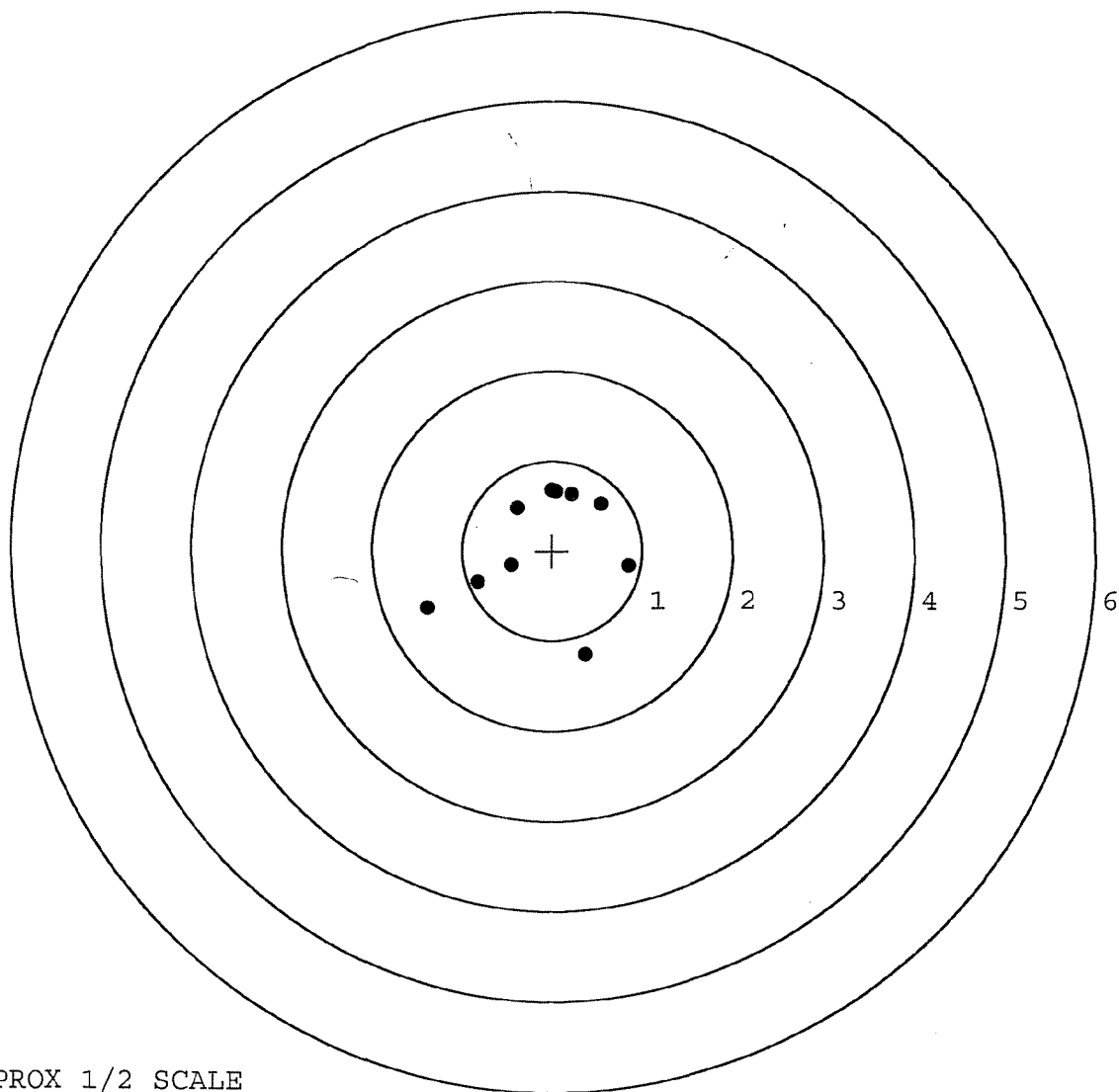
MAX RADIUS: 1.457

MEAN RADIUS: 0.822

# IN 1 IN DIAMETER: 1

# IN 2 IN DIAMETER: 8

# in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

**M-24 INSPECTION CHECKLIST**  
**CONTRACT #: DAAE-20-02-C-0149**

| R & E NUMBER  | 103093               |                                           |                   |          |
|---------------|----------------------|-------------------------------------------|-------------------|----------|
| SERIAL NUMBER | C6001584             |                                           |                   |          |
| LOG-IN DATE   | 11-1-05              |                                           |                   |          |
| OPERATION #   | OPERATION NAME       |                                           | DATE              | INITIAL  |
| 500           | DIS-ASSEMBLE GUN     |                                           | 11-7-05           | RTZ      |
| 505           | RE-BARREL            |                                           | 11-9-05           | RTZ      |
| 560           | ASSEMBLE             |                                           | 11-9-05           | CD       |
| 600           | PROOF                | MAGNA-FLUX                                | 11-9-05           | CD       |
| 605           | CHECK HEADSPACE      | INSPECTED                                 | 11-9-05           | CD       |
| 610           | DIS-ASSEMBLE GUN     | NOT                                       | 11-9-05           | CD       |
| 612           | MAGNAFLUX            | OPERATOR <u>Wend</u>                      | 11/10/05          | Wend     |
| 510           | DRILL AND TAP        |                                           | 11-10-05          | BR       |
| 615           | ROLLMARK CALIBER     |                                           | 11-10-05          | CW       |
| 618           | ROTO-BLAST           |                                           | 11-14-05          | LB       |
| 620           | APPLY COATINGS       |                                           | 11/15/05          | ASP      |
| 625           | FINAL ASSEMBLY       |                                           | 11-16-05          | RTZ      |
| 640           | FUNCTION TEST AND    | PASS FAIL                                 | 11-18-05          | TRW      |
| 650           | TARGET               | PASS FAIL                                 | 11-18-05          | TRW      |
|               | MALFUNCTION          | CORRECTION                                |                   |          |
|               | MALFUNCTION          | CORRECTION                                |                   |          |
|               | MALFUNCTION          | CORRECTION                                |                   |          |
|               | MALFUNCTION          | CORRECTION                                |                   |          |
| 670           | FINAL INSPECTION     |                                           | 11-18-05          | TRW      |
|               | A) HEADSPACE         | PASS FAIL                                 | 11-18-05          | Ac       |
|               | B) TRIGGER PULL      | +/- .5 LBS<br>MIN 2.50 LBS<br>MAX 4.0 LBS |                   |          |
| 680           | F) SAFETY ON FORCE   | 2 LBS MIN<br>10 LBS                       | 6 lbs 6 lbs 6 lbs | 11-18-05 |
|               | G) SAFETY OFF FORCE  | 2 LBS<br>MIN                              | 2 lbs 2 lbs 2 lbs | 11-18-05 |
|               | I) FIRING PIN INDENT | .020                                      | .026 .026 .026    | 11-18-05 |
| 690           | PACK                 |                                           | 11-3-05           | BT       |

|                                                                                       |  |                                             |                                                                                           |
|---------------------------------------------------------------------------------------|--|---------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>Remington</b>                                                                      |  | <b>DU PONT</b><br>REG. U.S. PAT. & TM. OFF. | VERY IMPORTANT:<br>Instruction Book<br>enclosed to assure<br>safe use of this<br>firearm. |
| <b>MODEL 700™ M24</b>                                                                 |  | <b>SERIAL NO.</b><br>C6611584               | <b>ORDER NO.</b><br><b>5716</b>                                                           |
| MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada Marque Deposee. |  |                                             |                                                                                           |



CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6611584

| OP. #        | OP. NAME                                                       | READINGS | DATE    | INIT |
|--------------|----------------------------------------------------------------|----------|---------|------|
| 575 &<br>580 | Assemble Action<br>and Stock                                   | 3 28 91  |         | RW   |
| 600          | Proof                                                          | 3 28 91  |         | RW   |
| 607          | Check Headspace                                                | 3 28 91  |         | RW   |
| 610          | Dis-assemble Gun                                               | 3 28 91  |         | RW   |
| 612          | Magnaflux Barrel<br>Action                                     | APR      | 2 1991  | KR   |
|              | Magnaflux Bolt                                                 | APR      | 2 1991  | CC   |
| 615          | Rollmark Caliber                                               | APR      | 2 1991  | JS   |
| 617          | Drill and Tap Sight Holes                                      | APR      | 5 1991  | FB   |
| 618          | Polish Barrel                                                  | APR      | 5 1991  | WB   |
| 620          | Apply Coatings<br>(Barrel Action)                              |          | 4/10/91 | JA   |
|              | Apply Coating (Bolt)                                           |          |         | JA   |
| 625          | Final Assembly<br>A) Clean inside of<br>Bolt Assembly          |          | 4/10/91 | RW   |
|              | B) Inspect Rear Firing<br>Pin Hole for Chamfer<br>in Bolt Head |          | 4/10/91 | RW   |
|              | C) Inspect Ejector Hole<br>for Chamfer                         |          | 4/10/91 | RW   |
|              | D) Oil Firing Pin Ass'y                                        |          | 4/10/91 | RW   |
|              | E) Adjust Trigger Pull to<br>Min Setting and Stake             |          | 4/12/91 | JA   |

| op. #        | OP. NAME                                                    | READINGS |      |      |      |      | DATE    | INIT |
|--------------|-------------------------------------------------------------|----------|------|------|------|------|---------|------|
| 625<br>cont. | F) Safety On Force                                          | 5        | 5    | 5    |      |      | 4/15/91 | JK   |
|              | G) Safety Off Force                                         | 3        | 3    | 3    |      |      | 4/15/91 | JK   |
|              | H) Trigger Pull Test & Retainability                        |          |      |      |      |      | 4/12/91 |      |
|              | I) Firing Pin Indent                                        | .021     | .022 | .022 |      |      | 4/15/91 | JK   |
|              | J) Assemble Stock                                           |          |      |      |      |      | 4/15/91 | RW   |
|              | K) Assemble Swivel Studs                                    |          |      |      |      |      | 4-17-91 | JK   |
|              | L) Attach Front and Rear Sight Assemblies                   |          |      |      |      |      | 4/15/91 | RW   |
|              | M) Iron Sight Alignment                                     |          |      |      |      |      | 4/15/91 | RW   |
|              | N) Detach Front & Rear Sights & place in numbered container |          |      |      |      |      | 4/15/91 | RW   |
|              | O) Attach Scope to Rifle                                    |          |      |      |      |      | 4/15/91 | RW   |
|              | P) Detach & Attach Scope 20 Times                           |          |      |      |      |      | 4/15/91 | RW   |
| 640          | Gallery Target & Test                                       |          |      |      |      |      | 4-16-91 | JK   |
|              | A) Time                                                     |          |      |      |      |      | "       | JK   |
|              | B) Malfunctions                                             |          |      |      |      |      | "       | JK   |
|              | C) Pierced Primers                                          |          |      |      |      |      | "       | JK   |
|              | D) Optical Clarity of Scope                                 |          |      |      |      |      | "       | JK   |
| 645          | Inspect for Live Ammo                                       |          |      |      |      |      | 4-16-91 | JK   |
| 655          | Final Inspection                                            |          |      |      |      |      |         |      |
|              | A) Headspace                                                |          |      |      |      |      | 4-17-91 | JK   |
|              | B) Trigger Pull                                             | 2.27     | 2.30 | 2.33 | 2.31 | 2.34 | 4/17/91 | JK   |
|              | C) Function                                                 |          |      |      |      |      | 4-17-91 | JK   |
| 660          | Pack                                                        |          |      |      |      |      | 6-17-91 | JK   |

SWS TRIGGER PULL TEST

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

SERIAL NO. C6611584

DATE 4/12/91

TESTER JM

|         | 2.50#<br>INITIAL | 2.50# AFTER<br>50 CYCLES | FINAL TEST &<br>TO RESET 2.50# |      | COMMENTS                                                               |
|---------|------------------|--------------------------|--------------------------------|------|------------------------------------------------------------------------|
| PULL #1 | 2.25             | 2.53                     | 2.21                           | 2.27 | MIN. SETTING,<br>NO AVG. OF 5<br>READINGS ACCEPT-<br>ABLE LESS THAN 2# |
| PULL #2 | 2.22             | 2.39                     | 2.21                           | 2.30 |                                                                        |
| PULL #3 | 2.23             | 2.43                     | 2.28                           | 2.33 |                                                                        |
| PULL #4 | 2.24             | 2.42                     | 2.34                           | 2.31 |                                                                        |
| PULL #5 | 2.22             | 2.42                     | 2.31                           | 2.34 |                                                                        |
| TOTAL   |                  |                          |                                |      |                                                                        |
| AVG.    |                  |                          |                                |      |                                                                        |

|         | 3.00#<br>INITIAL | 3.00# AFTER<br>20 CYCLES |  | COMMENTS |
|---------|------------------|--------------------------|--|----------|
| PULL #1 | 3.37             | 3.40                     |  |          |
| PULL #2 | 3.34             | 3.19                     |  |          |
| PULL #3 | 3.34             | 3.46                     |  |          |
| PULL #4 | 3.27             | 3.35                     |  |          |
| PULL #5 | 3.33             | 3.20                     |  |          |
| TOTAL   |                  |                          |  |          |
| AVG.    |                  |                          |  |          |

|         | 4.00#<br>INITIAL | 4.00# AFTER<br>20 CYCLES | MAX SETTING<br>GREATER THAN 4# | RESET TO 4# FOR<br>TARGET & ACCURACY |
|---------|------------------|--------------------------|--------------------------------|--------------------------------------|
| PULL #1 | 4.50             | 4.25                     |                                | 4.37                                 |
| PULL #2 | 4.47             | 4.34                     |                                | 4.38                                 |
| PULL #3 | 4.31             | 4.28                     |                                | 4.39                                 |
| PULL #4 | 4.26             | 4.38                     |                                | 4.39                                 |
| PULL #5 | 4.21             | 4.28                     |                                | 4.48                                 |
| TOTAL   |                  |                          |                                |                                      |
| AVG.    |                  |                          |                                |                                      |

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # C6611584  
16 Apr 1991

CENTROIDAL DISTANCES

|      |   |         |
|------|---|---------|
| 0 TO | 1 | .452206 |
| 1 TO | 2 | .321447 |
| 1 TO | 3 | .412612 |
| 1 TO | 4 | .484883 |
| 1 TO | 5 | .492345 |

$\bar{x}_4$  <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .2298  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0096  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .23  
THE AMR FOR THIS RIFLE IS: 1.003

16 Apr 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/C6611584

# CENTERFIRE PATTERNS

# 1

POA

1in circle

2in circle

3in circle

# OF SHOTS- 10

# IN CIR

1in = 0

2in = 2

3in = 6

HS= 2.941

VS= 1.800

GS= 3.149

CENTROID \*

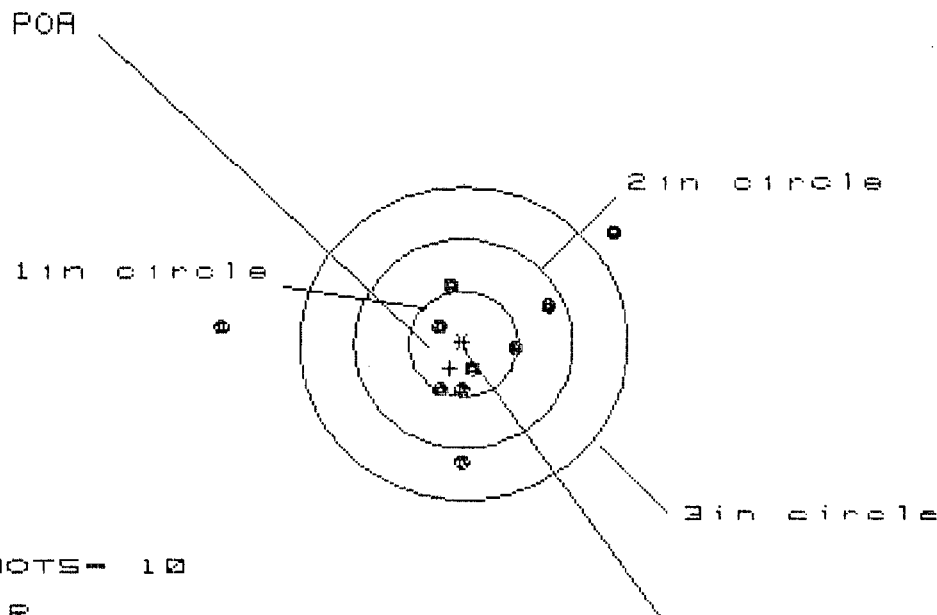
| PATTERN #                   | : | 1      | 9      | 8     |
|-----------------------------|---|--------|--------|-------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8     |
| MAXIMUM X                   | : | 1.592  | 1.756  | 1.878 |
| MINIMUM X                   | : | -1.349 | -1.172 | -.953 |
| MAXIMUM Y                   | : | .757   | .820   | .827  |
| MINIMUM Y                   | : | -1.043 | -.980  | -.973 |
| CENTROID X                  | : | .429   | .252   | .033  |
| CENTROID Y                  | : | .143   | .080   | .073  |
| POA TO CENTROID in.         | : | .452   | .265   | .080  |
| MIN RADIUS                  | : | .645   | .778   | .701  |
| MEAN RADIUS                 | : | 1.261  | 1.196  | 1.090 |
| MAX RADIUS                  | : | 1.688  | 1.757  | 1.894 |
| HORIZONTAL SPREAD           | : | 2.941  | 2.928  | 2.831 |
| VERTICAL SPREAD             | : | 1.800  | 1.800  | 1.800 |
| EXTREME SPREAD              | : | 3.149  | 2.979  | 2.958 |
| NUMBER IN ONE INCH CIRCLE   | = |        | 0      |       |
| NUMBER IN TWO INCH CIRCLE   | = |        | 2      |       |
| NUMBER IN THREE INCH CIRCLE | = |        | 6      |       |



16 Apr 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/C6611584

# CENTERFIRE PATTERNS # 2



# OF SHOTS- 10

# IN CIR

1in = 4

2in = 7

3in = 8

HS= 3.594

VS= 2.187

GS= 3.697

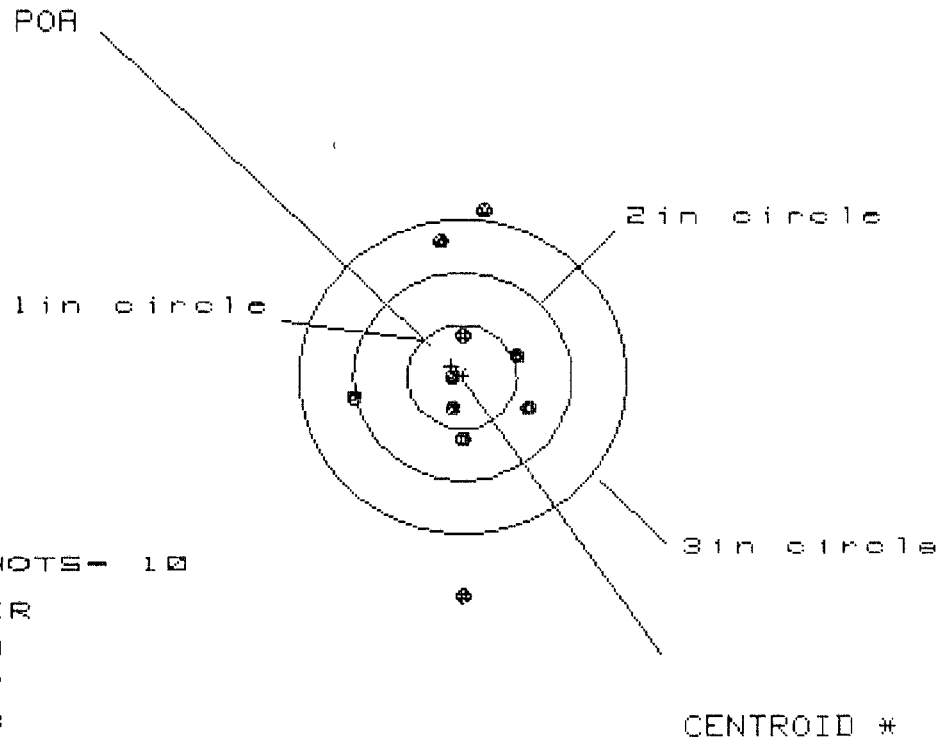
CENTROID #

|                             |   |        |        |       |
|-----------------------------|---|--------|--------|-------|
| PATTERN #                   | : | 2      |        |       |
| SHOTS (BEST OF)             | : | 10     | 9      | 8     |
| MAXIMUM X                   | : | 1.388  | 1.143  | .630  |
| MINIMUM X                   | : | -2.206 | -.494  | -.351 |
| MAXIMUM Y                   | : | 1.056  | 1.077  | .724  |
| MINIMUM Y                   | : | -1.131 | -1.110 | -.975 |
| CENTROID X                  | : | .121   | .366   | .223  |
| CENTROID Y                  | : | .235   | .214   | .079  |
| POA TO CENTROID in.         | : | .264   | .424   | .237  |
| MIN RADIUS                  | : | .268   | .252   | .086  |
| MEAN RADIUS                 | : | .844   | .680   | .526  |
| MAX RADIUS                  | : | 2.214  | 1.571  | .980  |
| HORIZONTAL SPREAD           | : | 3.594  | 1.637  | .981  |
| VERTICAL SPREAD             | : | 2.187  | 2.187  | 1.699 |
| EXTREME SPREAD              | : | 3.697  | 2.588  | 1.702 |
| NUMBER IN ONE INCH CIRCLE   | = |        | 4      |       |
| NUMBER IN TWO INCH CIRCLE   | = |        | 7      |       |
| NUMBER IN THREE INCH CIRCLE | = |        | 8      |       |

16 Apr 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/C6611564

# CENTERFIRE PATTERNS # 3



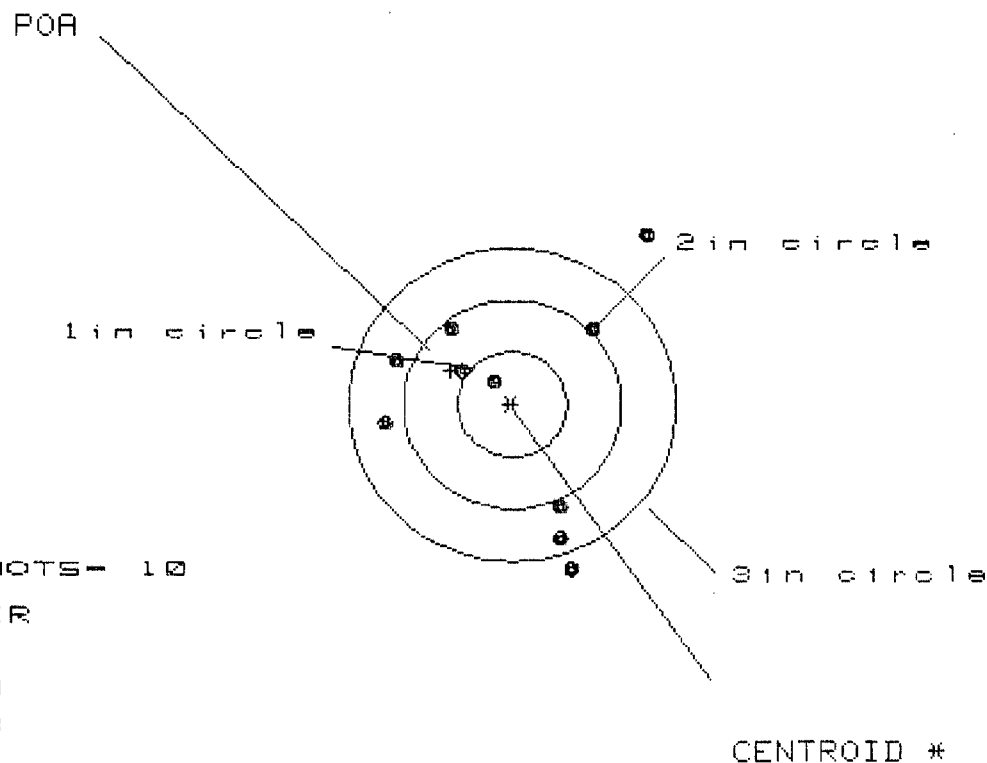
# OF SHOTS- 10  
# IN CIR  
1in = 3  
2in = 7  
3in = 8  
HS= 1.547  
VS= 3.730  
GS= 3.732

| PATTERN #                     | 3      | 3     | 3     |
|-------------------------------|--------|-------|-------|
| SHOTS (BEST OF)               | 10     | 9     | 8     |
| MAXIMUM X                     | .596   | .600  | .622  |
| MINIMUM X                     | -.951  | -.947 | -.924 |
| MAXIMUM Y                     | 1.615  | 1.380 | 1.256 |
| MINIMUM Y                     | -2.115 | -.798 | -.626 |
| CENTROID X                    | .097   | .093  | .070  |
| CENTROID Y                    | -.102  | .133  | -.040 |
| POA TO CENTROID in.           | .141   | .162  | .081  |
| MIN RADIUS                    | .052   | .131  | .079  |
| MEAN RADIUS                   | .860   | .735  | .615  |
| MAX RADIUS                    | 2.115  | 1.391 | 1.269 |
| HORIZONTAL SPREAD             | 1.547  | 1.547 | 1.547 |
| VERTICAL SPREAD               | 3.730  | 2.178 | 1.881 |
| EXTREME SPREAD                | 3.732  | 2.183 | 1.897 |
| NUMBER IN ONE INCH CIRCLE =   | 3      |       |       |
| NUMBER IN TWO INCH CIRCLE =   | 7      |       |       |
| NUMBER IN THREE INCH CIRCLE = | 8      |       |       |

16 Apr 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/C6811584

# CENTERFIRE PATTERNS # 4



# OF SHOTS- 10

# IN CIR

1in = 1

2in = 3

3in = 6

HS= 2.471

VS= 3.217

GS= 3.313

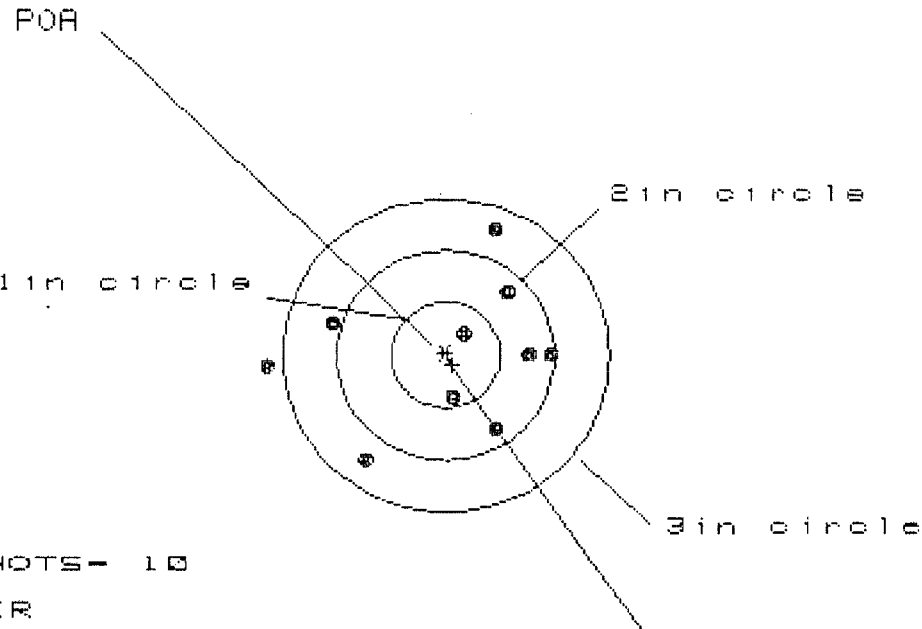
CENTROID \*

| PATTERN #                     | 4      |        |        |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | 1.277  | .853   | .932   |
| MINIMUM X                     | -1.194 | -1.052 | -.973  |
| MAXIMUM Y                     | 1.592  | .940   | .759   |
| MINIMUM Y                     | -1.625 | -1.448 | -1.321 |
| CENTROID X                    | .563   | .421   | .342   |
| CENTROID Y                    | -.323  | -.500  | -.319  |
| POA TO CENTROID in.           | .649   | .653   | .468   |
| MIN RADIUS                    | .265   | .406   | .241   |
| MEAN RADIUS                   | 1.125  | 1.022  | .895   |
| MAX RADIUS                    | 2.041  | 1.579  | 1.481  |
| HORIZONTAL SPREAD             | 2.471  | 1.905  | 1.905  |
| VERTICAL SPREAD               | 3.217  | 2.388  | 2.080  |
| EXTREME SPREAD                | 3.313  | 2.607  | 2.311  |
| NUMBER IN ONE INCH CIRCLE =   | 1      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 3      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 6      |        |        |

16 Apr 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/C6611584

# CENTERFIRE PATTERNS # 5



# OF SHOTS- 10

# IN CIR

1in = 2

2in = 6

3in = 9

HS= 2.561

VS= 2.202

GS= 2.563

CENTROID \*

|                             |   |        |        |        |
|-----------------------------|---|--------|--------|--------|
| PATTERN #                   | : | 5      |        |        |
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | .958   | .780   | .814   |
| MINIMUM X                   | : | -1.603 | -1.186 | -1.152 |
| MAXIMUM Y                   | : | 1.178  | 1.162  | .767   |
| MINIMUM Y                   | : | -1.024 | -1.040 | -.895  |
| CENTROID X                  | : | -.061  | .117   | .083   |
| CENTROID Y                  | : | .095   | .111   | -.034  |
| POA TO CENTROID in.         | : | .113   | .162   | .090   |
| MIN RADIUS                  | : | .264   | .153   | .300   |
| MEAN RADIUS                 | : | .923   | .804   | .756   |
| MAX RADIUS                  | : | 1.610  | 1.381  | 1.251  |
| HORIZONTAL SPREAD           | : | 2.561  | 1.966  | 1.966  |
| VERTICAL SPREAD             | : | 2.202  | 2.202  | 1.662  |
| EXTREME SPREAD              | : | 2.563  | 2.501  | 2.085  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 2      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 6      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 9      |        |