

C6522176

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

\*Includes 1 in chamber.

**Remington**

M2400003532

CONFIDENTIAL SUBJECT TO PROTECTIVE ORDER

**Smead**®

## Repair Inquiry

Repair Number: RE00112980

Serial: C6522176 Model: M24 SWS Center Fire  
Caliber: 7.62 NATO Produced: 09/19/1990

Repairman:

Status:

New 5/30/2006 11:24:24 AM

## Address Information

Customer:

☒ Received From:

Return To:

☐ Received From:

Name: C CO SPT BN SWTG (A) POC JERRY SCREEN

C CO SPT BN SWTG (A) POC JERRY SCREEN

Address 1: ARMAMENT FACILITY BLDG D-1307

ARMAMENT FACILITY BLDG D-1307

Address 2: GRUBER ROAD

PO Box:

GRUBER ROAD

PO Box:

City: FORT BRAGG

FORT BRAGG

State: NC

Zip Code: 28310

Country: US

State: NC

Zip Code: 28310

Country: US

FPL:

## Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

## Contact Information

Phone: NA

Fax:

Email:

Comments:

## Received Condition

Fail

Condition  
Notes:CSR  
Notes:

## Accessories Received

| Code | Desc                  | Qty |
|------|-----------------------|-----|
| A007 | With Stud             | 3   |
| A010 | Hard Case             | 1   |
| A017 | Scope Base            | 1   |
| A057 | Fit and Rear Sgt Base | 1   |

Repair Search

Refresh

Close

maglev

5/31/2006

10:29 AM

CAPS

NUM

INS

SCRI

start

2 Micros...

2 Micros...

3 Intern...

Arms Ser...

Part Sear...

10:29 AM

Serial Number: C6522176

Model: M24 SWS



RE00112980

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6522176.\_\_0

FILE DATE AND TIME: 06/29/2006 17:56

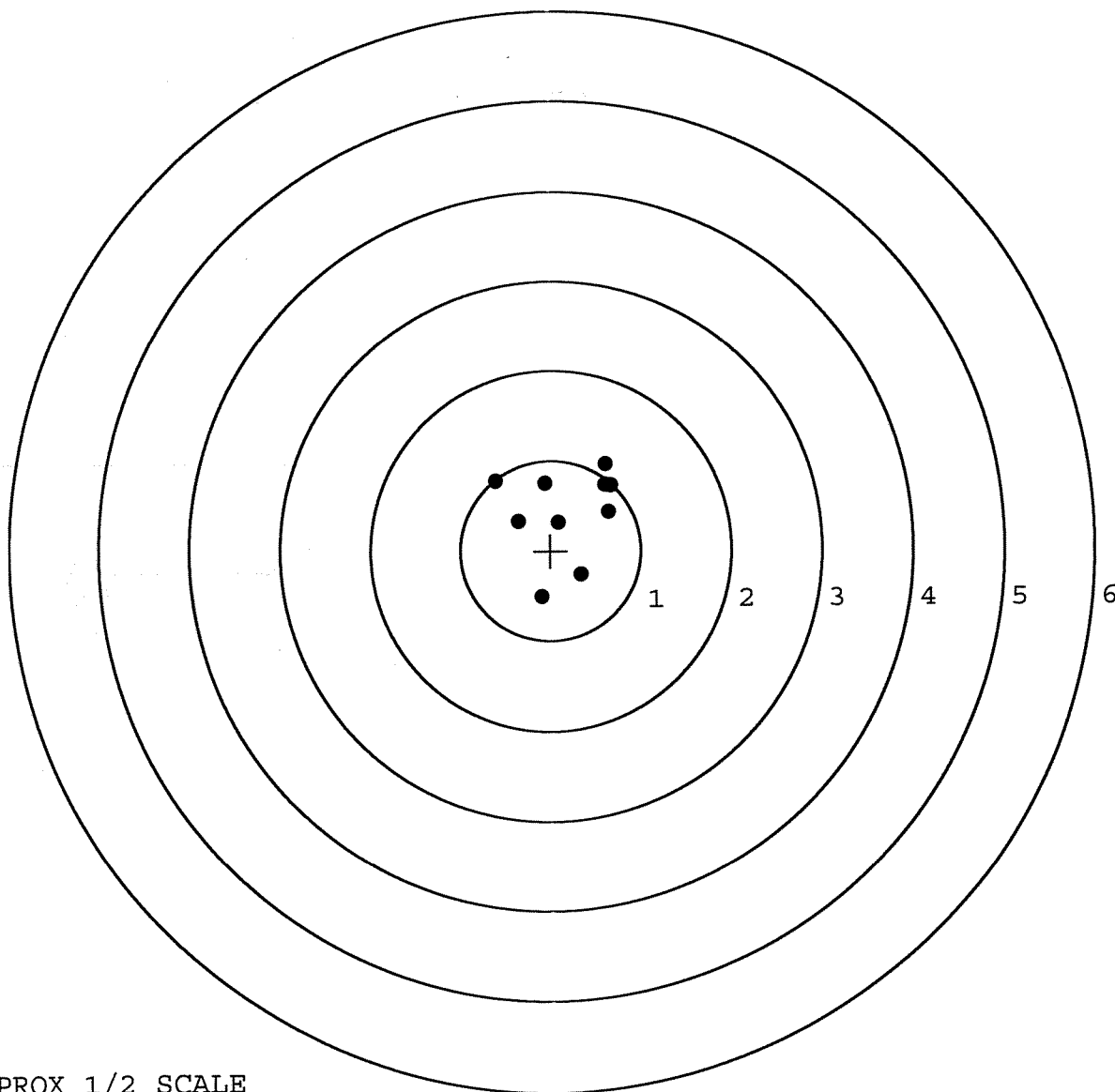
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

|                                                             |       |
|-------------------------------------------------------------|-------|
| The Average X Centroid of the Five Target Set:              | 0.132 |
| The Average Y Centroid of the Five Target Set:              | 0.132 |
| The Average Point of Impact of the Five Target Set:         | 0.186 |
| The Average Mean Radius of the Five Target Set:             | 0.564 |
| The Distance from POA to Centroid Target #1:                | 0.460 |
| The Distance from Centroid Target #2 to Centroid Target #1: | 0.554 |
| The Distance from Centroid Target #3 to Centroid Target #1: | 0.372 |
| The Distance from Centroid Target #4 to Centroid Target #1: | 0.647 |
| The Distance from Centroid Target #5 to Centroid Target #1: | 0.445 |

SERIAL NUMBER: C6522176. \_\_0  
TARGET NUMBER: 1  
FILE DATE: 06/29/2006  
FILE TIME: 17:56

X CENTROID: 0.182  
Y CENTROID: 0.423  
POA TO CENTROID: 0.460  
HORZ SPREAD: 1.284  
VERT SPREAD: 1.474  
GROUP SPREAD: 1.636  
MIN RADIUS: 0.140  
MAX RADIUS: 0.980  
MEAN RADIUS: 0.589  
# IN 1 IN DIAMETER: 3  
# IN 2 IN DIAMETER: 10  
# in 3 IN DIAMETER: 10

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | -0.611 | 0.776  |
| 2:     | -0.062 | 0.747  |
| 3:     | -0.356 | 0.330  |
| 4:     | 0.088  | 0.318  |
| 5:     | 0.334  | -0.270 |
| 6:     | -0.103 | -0.515 |
| 7:     | 0.645  | 0.430  |
| 8:     | 0.673  | 0.722  |
| 9:     | 0.602  | 0.728  |
| 10:    | 0.607  | 0.959  |

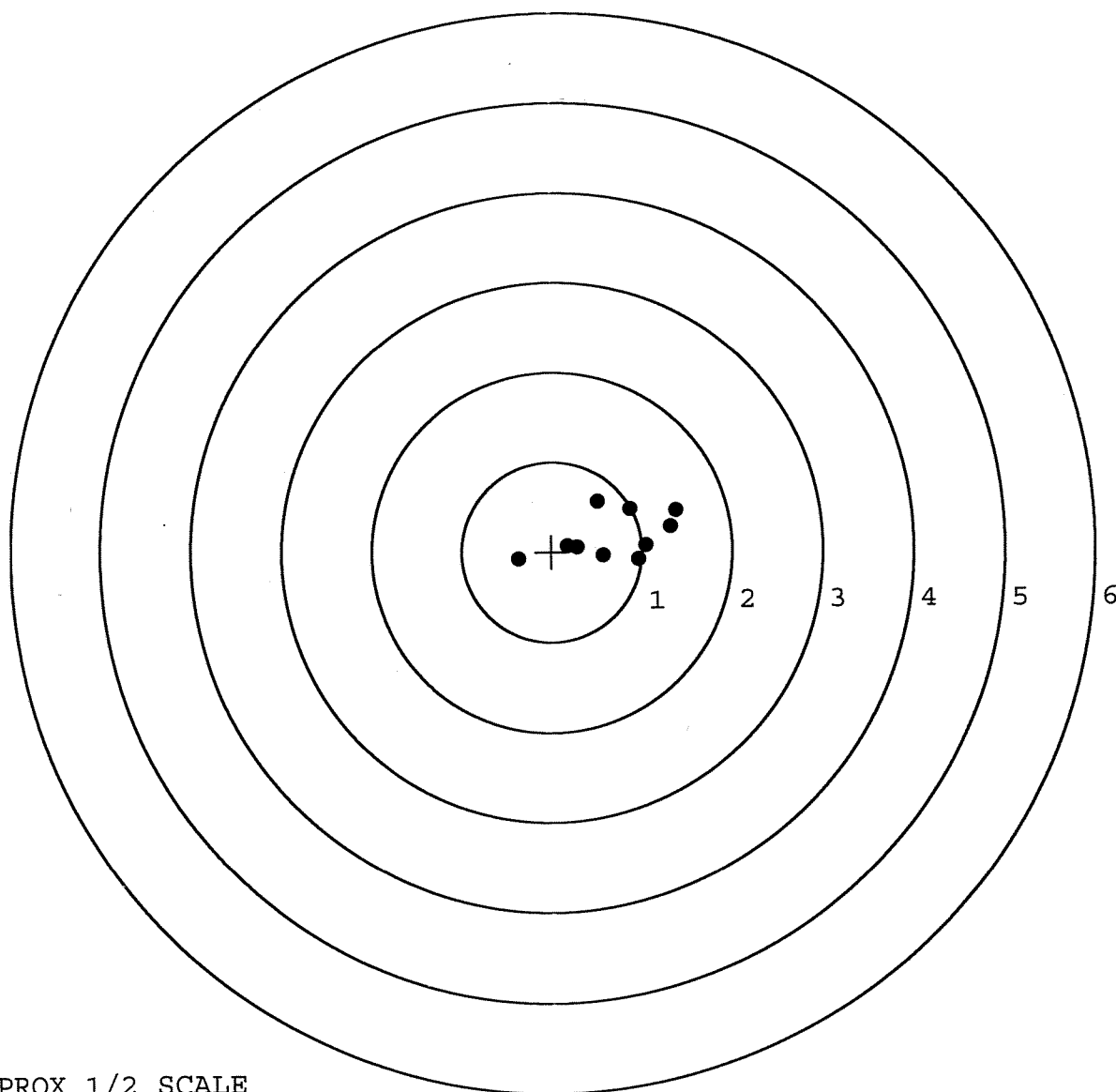


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6522176. 0  
TARGET NUMBER: 2  
FILE DATE: 06/29/2006  
FILE TIME: 17:56

X CENTROID: 0.674  
Y CENTROID: 0.169  
POA TO CENTROID: 0.695  
HORZ SPREAD: 1.747  
VERT SPREAD: 0.654  
GROUP SPREAD: 1.826  
MIN RADIUS: 0.240  
MAX RADIUS: 1.072  
MEAN RADIUS: 0.520  
# IN 1 IN DIAMETER: 6  
# IN 2 IN DIAMETER: 9  
# in 3 IN DIAMETER: 10

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 0.281  | 0.052  |
| 2:     | 0.572  | -0.049 |
| 3:     | 0.962  | -0.100 |
| 4:     | 1.316  | 0.271  |
| 5:     | 1.379  | 0.448  |
| 6:     | 1.043  | 0.062  |
| 7:     | 0.871  | 0.469  |
| 8:     | 0.174  | 0.062  |
| 9:     | -0.368 | -0.082 |
| 10:    | 0.511  | 0.554  |

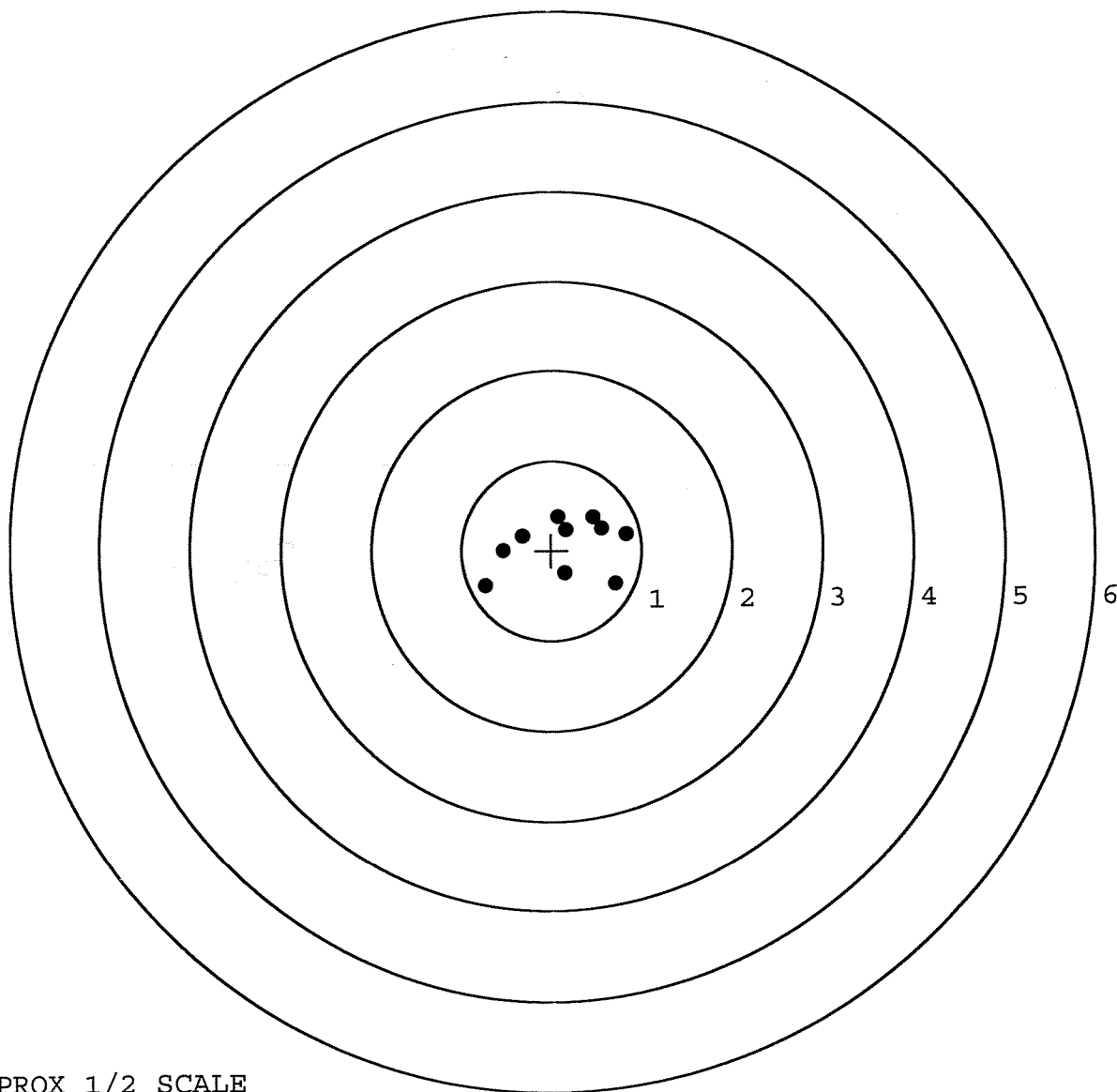


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6522176. \_\_0  
TARGET NUMBER: 3  
FILE DATE: 06/29/2006  
FILE TIME: 17:56

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | -0.735 | -0.387 |
| 2:     | -0.536 | -0.005 |
| 3:     | -0.325 | 0.166  |
| 4:     | 0.074  | 0.378  |
| 5:     | 0.160  | 0.229  |
| 6:     | 0.464  | 0.370  |
| 7:     | 0.554  | 0.243  |
| 8:     | 0.831  | 0.176  |
| 9:     | 0.711  | -0.377 |
| 10:    | 0.148  | -0.260 |

X CENTROID: 0.135  
Y CENTROID: 0.053  
POA TO CENTROID: 0.145  
HORZ SPREAD: 1.566  
VERT SPREAD: 0.765  
GROUP SPREAD: 1.664  
MIN RADIUS: 0.178  
MAX RADIUS: 0.975  
MEAN RADIUS: 0.529  
# IN 1 IN DIAMETER: 6  
# IN 2 IN DIAMETER: 10  
# in 3 IN DIAMETER: 10

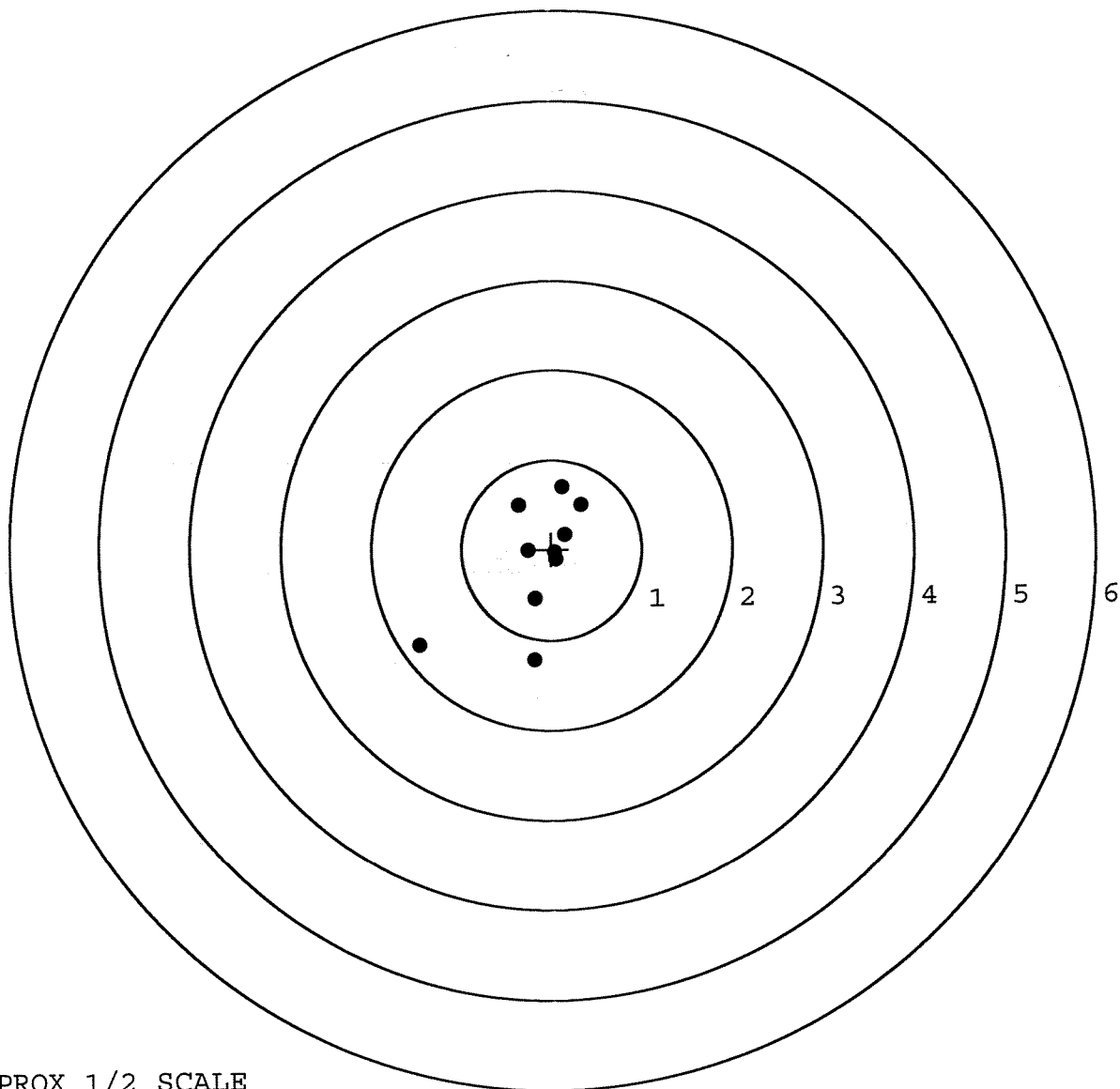


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6522176. \_\_0  
TARGET NUMBER: 4  
FILE DATE: 06/29/2006  
FILE TIME: 17:56

X CENTROID: -0.180  
Y CENTROID: -0.114  
POA TO CENTROID: 0.213  
HORZ SPREAD: 1.798  
VERT SPREAD: 1.916  
GROUP SPREAD: 2.370  
MIN RADIUS: 0.131  
MAX RADIUS: 1.594  
MEAN RADIUS: 0.645  
# IN 1 IN DIAMETER: 5  
# IN 2 IN DIAMETER: 8  
# in 3 IN DIAMETER: 9

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | -0.363 | 0.494  |
| 2:     | 0.121  | 0.694  |
| 3:     | 0.327  | 0.495  |
| 4:     | 0.150  | 0.161  |
| 5:     | -0.264 | -0.014 |
| 6:     | 0.047  | -0.114 |
| 7:     | -0.187 | -0.551 |
| 8:     | -0.199 | -1.222 |
| 9:     | -1.471 | -1.049 |
| 10:    | 0.037  | -0.038 |

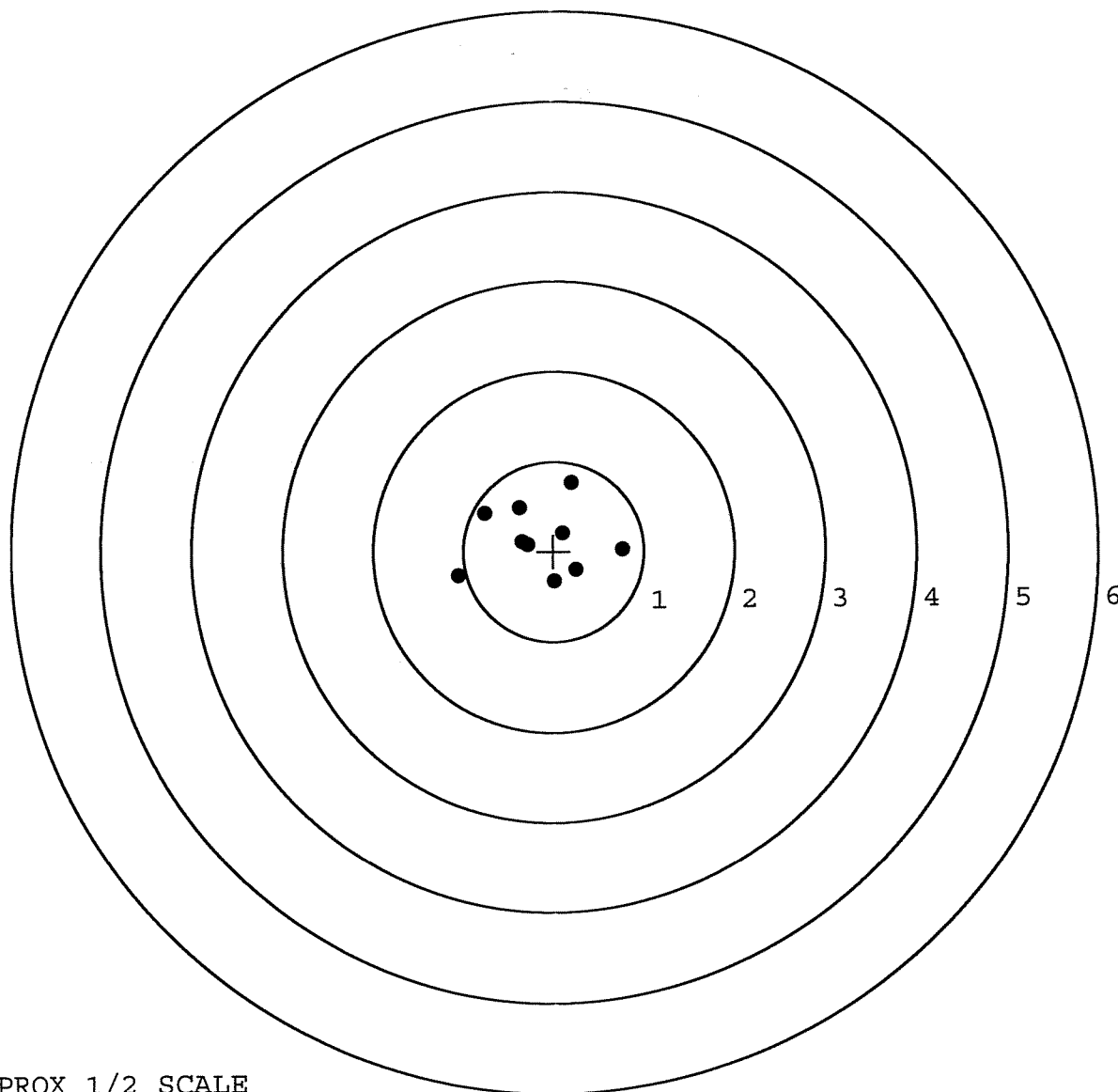


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6522176. \_\_0  
TARGET NUMBER: 5  
FILE DATE: 06/29/2006  
FILE TIME: 17:56

X CENTROID: -0.151  
Y CENTROID: 0.128  
POA TO CENTROID: 0.198  
HORZ SPREAD: 1.822  
VERT SPREAD: 1.102  
GROUP SPREAD: 1.844  
MIN RADIUS: 0.148  
MAX RADIUS: 0.990  
MEAN RADIUS: 0.538  
# IN 1 IN DIAMETER: 5  
# IN 2 IN DIAMETER: 10  
# in 3 IN DIAMETER: 10

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | -0.764 | 0.430  |
| 2:     | -0.379 | 0.491  |
| 3:     | -0.352 | 0.112  |
| 4:     | -1.057 | -0.271 |
| 5:     | 0.201  | 0.765  |
| 6:     | 0.765  | 0.015  |
| 7:     | 0.012  | -0.337 |
| 8:     | 0.251  | -0.209 |
| 9:     | 0.101  | 0.203  |
| 10:    | -0.291 | 0.078  |



TARGET APPROX 1/2 SCALE



AVERAGE PULL FORCE BETWEEN  
 INITIAL & CYCLE TESTS  
 2.50 LBS (plus or minus 0.50 LBS)  
 3.00 LBS (plus or minus 0.75 LBS)  
 4.00 LBS (plus or minus 1.00 LBS)

DATE 6-13-06  
 TESTER R.P.

|         | 2.50 LBS<br>INITIAL | 2.50 LBS AFTER 50<br>CYCLES | FINAL TEST & TO RESET<br>2.50 LBS |       | COMMENTS |
|---------|---------------------|-----------------------------|-----------------------------------|-------|----------|
| PULL #1 | 2.58                | 2.57                        |                                   | 2.56  |          |
| PULL #2 | 2.58                | 2.53                        |                                   | 2.49  |          |
| PULL #3 | 2.60                | 2.55                        |                                   | 2.59  |          |
| PULL #4 | 2.48                | 2.59                        |                                   | 2.53  |          |
| PULL #5 | 2.53                | 2.59                        |                                   | 2.53  |          |
| TOTAL   | 12.77               | 12.83                       |                                   | 12.70 |          |
| AVERAGE | 2.55                | 2.56                        |                                   | 2.54  |          |

|         | 3.00 LBS<br>INITIAL | 3.00 LBS AFTER 20<br>CYCLES |  | COMMENTS |
|---------|---------------------|-----------------------------|--|----------|
| PULL #1 | 3.03                | 2.94                        |  |          |
| PULL #2 | 3.07                | 3.11                        |  |          |
| PULL #3 | 2.98                | 3.19                        |  |          |
| PULL #4 | 3.02                | 3.09                        |  |          |
| PULL #5 | 3.00                | 2.93                        |  |          |
| TOTAL   | 15.10               | 15.26                       |  |          |
| AVERAGE | 3.02                | 3.05                        |  |          |

|         | 4.00 LBS<br>INITIAL | 4.00 LBS AFTER 20<br>CYCLES | MAX SETTING GREATER<br>THAN 4 LBS | RESET TO 4 LBS FOR<br>TARGET & ACCURACY |
|---------|---------------------|-----------------------------|-----------------------------------|-----------------------------------------|
| PULL #1 | 4.04                | 4.26                        |                                   | 4.00                                    |
| PULL #2 | 4.18                | 4.25                        |                                   | 3.98                                    |
| PULL #3 | 3.99                | 4.17                        |                                   | 4.17                                    |
| PULL #4 | 4.11                | 4.10                        |                                   | 4.00                                    |
| PULL #5 | 3.98                | 4.07                        |                                   | 4.05                                    |
| TOTAL   | 20.30               | 20.85                       |                                   | 20.20                                   |
| AVERAGE | 4.06                | 4.17                        |                                   | 4.04                                    |

INSPECTION CHECKLIST - REPAIRS  
CONTRACT #: DAAE-20-02-C-0149

|               |                      |                          |         |
|---------------|----------------------|--------------------------|---------|
| R & E NUMBER  | 112980               |                          |         |
| SERIAL NUMBER | C6522176             |                          |         |
| LOG-IN DATE   | 5-30-06              |                          |         |
| OPERATION #   | OPERATION NAME       | DATE                     | INITIAL |
| 500           | DIS-ASSEMBLE GUN     | 6-16-06                  | RTZ     |
| 505           | RE-BARREL            | 6-20-06                  | RTZ     |
| 420           | ASSEMBLE             | 6-20-06                  | RTZ     |
| 440           | PROOF                | 6-20-06                  | TRW     |
| 460           | CHECK HEADSPACE      | 6-20-06                  | TRW     |
| 470           | DIS-ASSEMBLE GUN     | 6-21-06                  | RTZ     |
| 480           | MAGNAFLUX            | 6-23-06                  | unnd    |
| 510           | DRILL AND TAP        | 6-22-06                  | TRW     |
| 500           | ROLLMARK CALIBER     | 6-22-06                  | CW      |
| 520           | GOFF BLAST BBL / REC | 6-23-06                  | LB      |
| 530 & 540     | APPLY COATINGS       | 6-29-06                  | TS      |
| 560           | FINAL ASSEMBLY       | 6-29-06                  | PLG     |
| 640           | FUNCTION TEST AND    | PASS FAIL 6-29-06        | NTM     |
| 650           | TARGET               | PASS FAIL 6-29-06        | NTM     |
|               | MALFUNCTION          | CORRECTION               |         |
|               | MALFUNCTION          | CORRECTION               |         |
|               | MALFUNCTION          | CORRECTION               |         |
|               | MALFUNCTION          | CORRECTION               |         |
| 670           | FINAL INSPECTION     | 7-6-06                   | Ac      |
|               | A) HEADSPACE         | PASS FAIL 7-6-06         | Ac      |
|               | B) TRIGGER PULL      | 2.39 2.10 2.10 2.01 2.08 | Ac      |
| 680           | F) SAFETY ON FORCE   | 8 lbs 8 lbs 8 lbs        | Ac      |
|               | G) SAFETY OFF FORCE  | 3 lbs 3 lbs 3 lbs        | Ac      |
|               | I) FIRING PIN INDENT | .022 .022 .022           | Ac      |
| 690           | PACK                 | 8-4-06                   | NTM     |

F006 REV 5/2006

**BARREL ASSEMBLY**

\_\_\_\_\_  
BARREL

\_\_\_\_\_  
RECEIVER

\_\_\_\_\_  
FRONT SIGHT BASE

\_\_\_\_\_  
REAR SIGHT BASE

\_\_\_\_\_  
SCREWS

\_\_\_\_\_  
FINISH

**SCOPE ASSEMBLY**

\_\_\_\_\_  
SCOPE

\_\_\_\_\_  
SCOPE RINGS

\_\_\_\_\_  
MOUNTING SCREWS

\_\_\_\_\_  
MOUNTING BASE

\_\_\_\_\_  
SCREWS

\_\_\_\_\_  
FINISH

\_\_\_\_\_  
CLARITY

**STOCK ASSEMBLY**

\_\_\_\_\_  
STOCK

\_\_\_\_\_  
SLING SWIVEL STUDS

\_\_\_\_\_  
BUTT PATE

\_\_\_\_\_  
LOCK NUTS

\_\_\_\_\_  
BARREL CLEARANCE

\_\_\_\_\_  
COLOR / FINISH

**SYSTEM CASE**

\_\_\_\_\_  
SCOPE CASE

\_\_\_\_\_  
IRON SIGHTS

\_\_\_\_\_  
DEPLOYMENT KIT

**TRIGGER ASSEMBLY**

\_\_\_\_\_  
SAFETY OPERATION

\_\_\_\_\_  
RE-SET TO FACTORY  
SPECS

**COMMENTS:** \_\_\_\_\_



**Remington®**

**MODEL 700™ H24**

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

Ø1

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

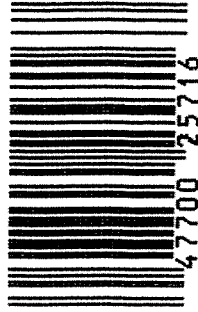
SERIAL NO.  
**C6522176**

ORDER NO.  
**5716**



5716 C6522176

UPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6522176

| OP. #        | OP. NAME                                                       | READINGS | DATE    | INIT |
|--------------|----------------------------------------------------------------|----------|---------|------|
| 575 &<br>580 | Assemble Action<br>and Stock                                   | 7 12     | 90      | RW   |
| 600          | Proof                                                          | 7 12     | 90      | RW   |
| 607          | Check Headspace                                                | 7 12     | 90      | RW   |
| 610          | Dis-assemble Gun                                               | 7 12     | 90      | RW   |
| 612          | Magnaflux Barrel<br>Action                                     |          | 7-17-90 | KR   |
|              | Magnaflux Bolt                                                 |          | 7-17-90 | KR   |
| 615          | Rollmark Caliber                                               |          | 7-17-90 | KR   |
| 617          | Drill and Tap Sight Holes                                      |          | 7/23/90 | EB   |
| 618          | Polish Barrel RB                                               |          | 7/24/90 | WB   |
| 620          | Apply Coatings<br>(Barrel Action)                              |          | 7-6-90  | JA   |
|              | Apply Coating (Bolt)                                           |          |         |      |
| 625          | Final Assembly<br>A) Clean inside of<br>Bolt Assembly          |          | 8/8/90  | RW   |
|              | B) Inspect Rear Firing<br>Pin Hole for Chamfer<br>in Bolt Head |          | 8/8/90  | RW   |
|              | C) Inspect Ejector Hole<br>for Chamfer                         |          | 8/8/90  | RW   |
|              | D) Oil Firing Pin Ass'y                                        |          | 8/8/90  | RW   |
|              | E) Adjust Trigger Pull to<br>Min Setting and Stake             |          | 8/21/90 | MC   |

| op. #        | OP. NAME                                                    | READINGS |                |      |     |     | DATE    | INIT |
|--------------|-------------------------------------------------------------|----------|----------------|------|-----|-----|---------|------|
| 625<br>cont. | F) Safety On Force                                          | 4        | 4              | 4    |     |     | 8/14/90 | JL   |
|              | G) Safety Off Force                                         | 2        | 2 <sup>3</sup> | 2    |     |     | 8/14/90 | JL   |
|              | H) Trigger Pull Test & Retainability                        |          |                |      |     |     | 8/21/90 | JL   |
|              | I) Firing Pin Indent                                        | .022     | .0225          | .022 |     |     | 8/14/90 | JL   |
|              | J) Assemble Stock                                           |          |                |      |     |     | 8/16/90 | RW   |
|              | K) Assemble Swivel Studs                                    |          |                |      |     |     | 8/24/90 | JS   |
|              | L) Attach Front and Rear Sight Assemblies                   |          |                |      |     |     | 8/16/90 | RW   |
|              | M) Iron Sight Alignment                                     |          |                |      |     |     | 8/16/90 | RW   |
|              | N) Detach Front & Rear Sights & place in numbered container |          |                |      |     |     | 8/16/90 | RW   |
|              | O) Attach Scope to Rifle                                    |          |                |      |     |     | 8/16/90 | RW   |
|              | P) Detach & Attach Scope 20 Times                           |          |                |      |     |     | 8/16/90 | RW   |
| 640          | Gallery Target & Test                                       |          |                |      |     |     | 8-17-90 | KJ   |
|              | A) Time                                                     |          |                |      |     |     | 8-17-90 | KJ   |
|              | B) Malfunctions                                             |          |                |      |     |     | 8-17-90 | KJ   |
|              | C) Pierced Primers                                          |          |                |      |     |     | 8-17-90 | KJ   |
|              | D) Optical Clarity of Scope                                 |          |                |      |     |     | 8-17-90 | KJ   |
| 645          | Inspect for Live Ammo                                       |          |                |      |     |     | 8-17-90 | KJ   |
| 655          | Final Inspection                                            |          |                |      |     |     | 8/29/90 | JS   |
|              | A) Headspace                                                |          |                |      |     |     | 8/29/90 | JS   |
|              | B) Trigger Pull                                             | 240      | 247            | 246  | 251 | 250 | 8/21/90 | JL   |
|              | C) Function                                                 |          |                |      |     |     | 8/29/90 | JS   |
| 660          | Pack                                                        |          |                |      |     |     | 8/20/90 | NF   |

AVERAGE PULL FORCE BETWEEN  
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. 06522176DATE 8/21/90TESTER J.P.

|         | 2.50#<br>INITIAL | 2.50# AFTER<br>50 CYCLES | FINAL TEST &<br>TO RESET 2.50# |       | COMMENTS          |
|---------|------------------|--------------------------|--------------------------------|-------|-------------------|
| PULL #1 | 2.42             | 2.45                     | 2.50                           | 2.40  | MIN. SETTING,     |
| PULL #2 | 2.43             | 2.48                     | 2.46                           | 2.47  | NO AVG. OF 5      |
| PULL #3 | 2.42             | 2.48                     | 2.50                           | 2.46  | READINGS ACCEPT-  |
| PULL #4 | 2.43             | 2.45                     | 2.46                           | 2.51  | ABLE LESS THAN 2# |
| PULL #5 | 2.44             | 2.49                     | 2.50                           | 2.50  |                   |
| TOTAL   | 12.14            | 12.35                    | 12.42                          | 12.34 |                   |
| AVG.    | 2.428            | 2.47                     | 2.482                          | 2.468 |                   |

|         | 3.00#<br>INITIAL | 3.00# AFTER<br>20 CYCLES |  | COMMENTS |
|---------|------------------|--------------------------|--|----------|
| PULL #1 | 3.42             | 3.36                     |  |          |
| PULL #2 | 3.36             | 3.39                     |  |          |
| PULL #3 | 3.33             | 3.34                     |  |          |
| PULL #4 | 3.36             | 3.33                     |  |          |
| PULL #5 | 3.34             | 3.36                     |  |          |
| TOTAL   | 16.81            | 16.78                    |  |          |
| AVG.    | 3.362            | 3.356                    |  |          |

|         | 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             | 4.47                     |                                | 4.47                                 |
| PULL #2 | 4.48             | 4.50                     |                                | 4.42                                 |
| PULL #3 | 4.43             | 4.47                     |                                | 4.44                                 |
| PULL #4 | 4.47             | 4.46                     |                                | 4.47                                 |
| PULL #5 | 4.46             | 4.45                     |                                | 4.44                                 |
| TOTAL   | 22.34            | 22.35                    |                                | 22.24                                |
| AVG.    | 4.468            | 4.47                     |                                | 4.448                                |

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # C6522176  
17 Aug 1990

CENTROIDAL DISTANCES

|      |   |         |
|------|---|---------|
| Ø TO | 1 | .203531 |
| 1 TO | 2 | .562825 |
| 1 TO | 3 | .793799 |
| 1 TO | 4 | .621187 |
| 1 TO | 5 | .348695 |

$\frac{3}{2}$  4 <-----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0224  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .1382  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .140004  
  
THE AMR FOR THIS RIFLE IS: 1.26

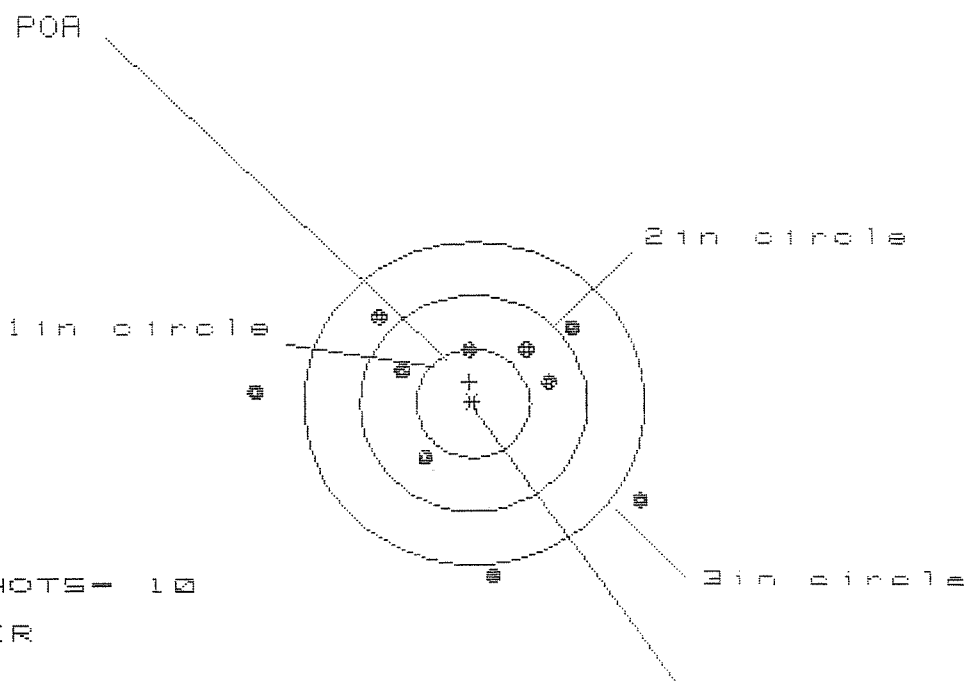


17 Aug 1990

FILE:/PATTERNING/CENTERFIRE\_PATT/C85822176

# CENTERFIRE PATTERNS

# 1



# OF SHOTS- 10

# IN CIR

1in = 1

2in = 5

3in = 7

HS= 3.339

VS= 2.460

GS= 3.491

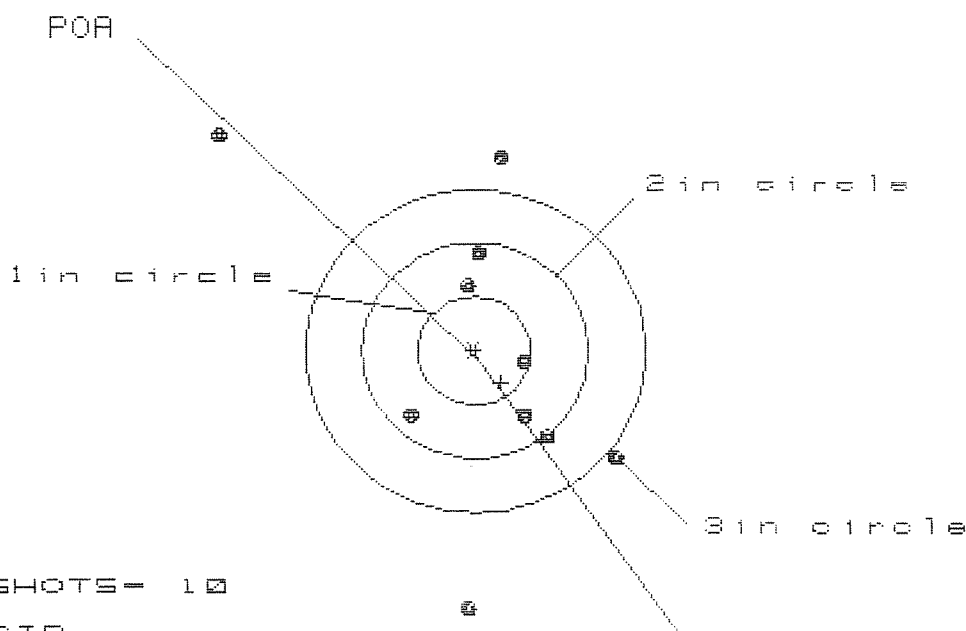
CENTROID \*

| PATTERN #                   | : | 1      | 9      | 8      |
|-----------------------------|---|--------|--------|--------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 1.456  | 1.247  | .834   |
| MINIMUM X                   | : | -1.883 | -1.022 | -.866  |
| MAXIMUM Y                   | : | .828   | .837   | .721   |
| MINIMUM Y                   | : | -1.632 | -1.623 | -1.739 |
| CENTROID X                  | : | .032   | .241   | .085   |
| CENTROID Y                  | : | -.201  | -.210  | -.094  |
| POA TO CENTROID in.         | : | .203   | .319   | .127   |
| MIN RADIUS                  | : | .490   | .502   | .387   |
| MEAN RADIUS                 | : | 1.073  | .971   | .866   |
| MAX RADIUS                  | : | 1.884  | 1.623  | 1.744  |
| HORIZONTAL SPREAD           | : | 3.339  | 2.269  | 1.700  |
| VERTICAL SPREAD             | : | 2.460  | 2.460  | 2.460  |
| EXTREME SPREAD              | : | 3.491  | 2.873  | 2.656  |
| NUMBER IN ONE INCH CIRCLE   | = | 1      |        |        |
| NUMBER IN TWO INCH CIRCLE   | = | 5      |        |        |
| NUMBER IN THREE INCH CIRCLE | = | 7      |        |        |

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# CENTERFIRE PATTERNS # 2



# OF SHOTS= 10

# IN CIR

1 in = 1

2 in = 5

3 in = 6

HS= 3.521

VS= 4.340

GS= 4.879

CENTROID #

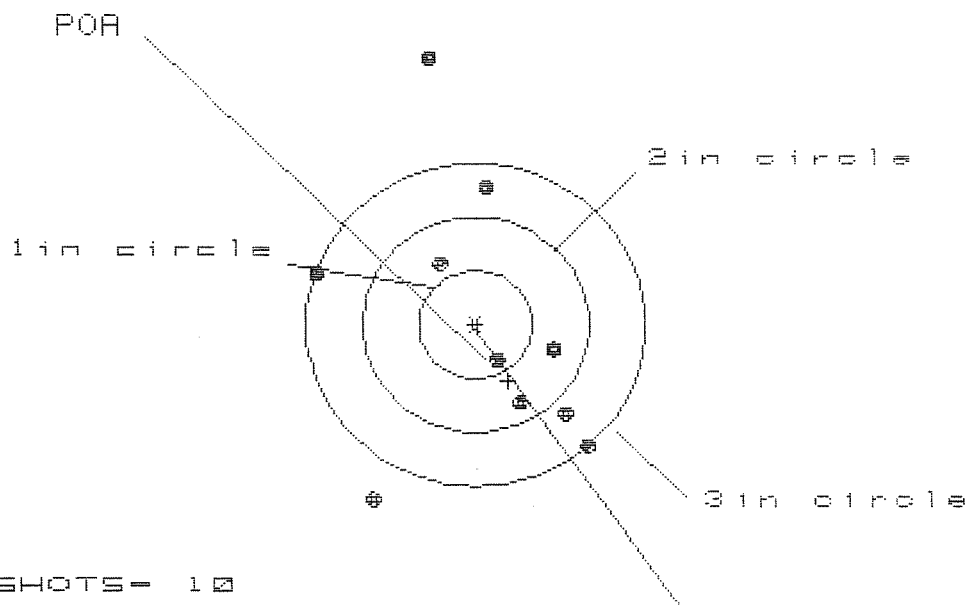
| PATTERN #                   | : | 2      |        |        |
|-----------------------------|---|--------|--------|--------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 1.248  | .996   | .959   |
| MINIMUM X                   | : | -2.272 | -.790  | -.827  |
| MAXIMUM Y                   | : | 1.993  | 2.045  | 1.779  |
| MINIMUM Y                   | : | -2.347 | -2.125 | -1.040 |
| CENTROID X                  | : | -.234  | .018   | .055   |
| CENTROID Y                  | : | .295   | .073   | .339   |
| POA TO CENTROID in.         | : | .377   | .076   | .344   |
| MIN RADIUS                  | : | .482   | .261   | .225   |
| MEAN RADIUS                 | : | 1.338  | 1.084  | .955   |
| MAX RADIUS                  | : | 3.023  | 2.146  | 1.781  |
| HORIZONTAL SPREAD           | : | 3.521  | 1.786  | 1.786  |
| VERTICAL SPREAD             | : | 4.340  | 4.170  | 2.819  |
| EXTREME SPREAD              | : | 4.879  | 4.178  | 3.005  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 1      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 6      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 6      |        |

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# CENTERFIRE PATTERNS

# 3



# OF SHOTS= 10

# IN CIR

1 in = 1

2 in = 4

3 in = 7

HS= 2.412

VS= 4.016

GS= 4.041

CENTROID #

| PATTERN #                     | 3      | 9      | 8      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | .998   | .948   | .829   |
| MINIMUM X                     | -1.414 | -1.464 | -1.583 |
| MAXIMUM Y                     | 2.433  | 1.539  | 1.375  |
| MINIMUM Y                     | -1.583 | -1.313 | -1.013 |
| CENTROID X                    | -.289  | -.239  | -.120  |
| CENTROID Y                    | .525   | .255   | .419   |
| POA TO CENTROID in.           | .599   | .349   | .436   |
| MIN RADIUS                    | .369   | .145   | .212   |
| MEAN RADIUS                   | 1.223  | 1.024  | .938   |
| MAX RADIUS                    | 2.474  | 1.659  | 1.699  |
| HORIZONTAL SPREAD             | 2.412  | 2.412  | 2.412  |
| VERTICAL SPREAD               | 4.016  | 2.852  | 2.388  |
| EXTREME SPREAD                | 4.041  | 3.016  | 2.911  |
| NUMBER IN ONE INCH CIRCLE =   | 1      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 4      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 7      |        |        |

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# CENTERFIRE PATTERNS

# 4

POA

1in circle

2in circle

3in circle

CENTROID \*

# OF SHOTS= 10

# IN CIR

1in = 1

2in = 2

3in = 4

HS= 3.926

VS= 3.588

GS= 4.595

| PATTERN #                   | : | 4      |        |        |
|-----------------------------|---|--------|--------|--------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 2.559  | 1.550  | 1.444  |
| MINIMUM X                   | : | -1.367 | -1.083 | -1.189 |
| MAXIMUM Y                   | : | 2.064  | 1.989  | 1.405  |
| MINIMUM Y                   | : | -1.524 | -1.599 | -1.350 |
| CENTROID X                  | : | .639   | .355   | .461   |
| CENTROID Y                  | : | -.069  | .006   | -.243  |
| POA TO CENTROID in.         | : | .643   | .355   | .521   |
| MIN RADIUS                  | : | .457   | .550   | .281   |
| MEAN RADIUS                 | : | 1.535  | 1.373  | 1.247  |
| MAX RADIUS                  | : | 2.646  | 2.161  | 1.777  |
| HORIZONTAL SPREAD           | : | 3.926  | 2.633  | 2.633  |
| VERTICAL SPREAD             | : | 3.588  | 3.588  | 2.755  |
| EXTREME SPREAD              | : | 4.595  | 4.091  | 3.389  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 1      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 2      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 4      |        |

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# CENTERFIRE PATTERNS # 5

POA

1in circle

2in circle

3in circle

CENTROID \*

# OF SHOTS- 10

# IN CIR

1in = 0

2in = 5

3in = 8

HS= 1.840

VS= 2.978

GS= 3.468

|                             |   |        |        |       |
|-----------------------------|---|--------|--------|-------|
| PATTERN #                   | : | 5      |        |       |
| SHOTS (BEST OF)             | : | 10     | 9      | 8     |
| MAXIMUM X                   | : | .861   | .752   | .781  |
| MINIMUM X                   | : | -.979  | -.775  | -.746 |
| MAXIMUM Y                   | : | 1.760  | 1.886  | 1.261 |
| MINIMUM Y                   | : | -1.218 | -1.023 | -.787 |
| CENTROID X                  | : | -.036  | .073   | .044  |
| CENTROID Y                  | : | .141   | -.054  | -.290 |
| POA TO CENTROID in.         | : | .146   | .091   | .293  |
| MIN RADIUS                  | : | .690   | .591   | .355  |
| MEAN RADIUS                 | : | 1.133  | .997   | .810  |
| MAX RADIUS                  | : | 2.014  | 1.900  | 1.367 |
| HORIZONTAL SPREAD           | : | 1.840  | 1.527  | 1.527 |
| VERTICAL SPREAD             | : | 2.978  | 2.909  | 2.048 |
| EXTREME SPREAD              | : | 3.468  | 2.918  | 2.134 |
| NUMBER IN ONE INCH CIRCLE   | = |        | 0      |       |
| NUMBER IN TWO INCH CIRCLE   | = |        | 5      |       |
| NUMBER IN THREE INCH CIRCLE | = |        | 8      |       |