

C6636341

MODEL 706™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5715**

\*Includes 1 in chamber.



MOD. \_\_\_\_\_ GA. CAL. \_\_\_\_\_ GUN # 6341

| # TEST | DATE | MALFUNCTION/DEFECT | ASSEM. # |
|--------|------|--------------------|----------|
|        | 1st  |                    |          |
| NF     | 8/20 | Hard Safe          | KS       |
|        | 2nd  |                    |          |
|        | 8/21 | Repaired           | KS<br>FF |
|        | 3rd  |                    |          |
|        | 4th  |                    |          |

FUNCTION \_\_\_\_\_ RD 6654 Rev 1

| TEST INIT. ACTION TO CORRECT |          | ASSEM.<br># |
|------------------------------|----------|-------------|
| PROOF                        |          |             |
| TEST                         |          |             |
| TGT                          |          |             |
| PROOF                        |          |             |
| TEST                         |          |             |
| TGT                          |          |             |
| PROOF                        | ENGINEER |             |
| TEST                         |          |             |
| TGT                          |          |             |
| PROOF                        | ENGINEER |             |
| TEST                         |          |             |
| TGT                          |          |             |

**Remington**  
MODEL 700<sup>TM</sup> M24

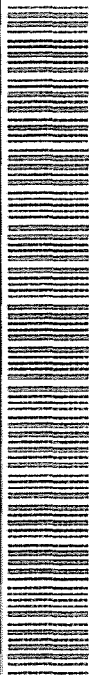
VERY IMPORTANT!  
Instruction Book  
enclosed to assure  
safe use of this  
firearm.

REG. U.S. PAT. & TM. OFF.

SERIAL NO.  
C6636341

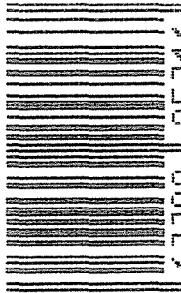
ORDER NO.  
5716

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



5716 C6636341

UPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6636341

| OP. #        | OP. NAME                                                       | READINGS | DATE        | INIT |
|--------------|----------------------------------------------------------------|----------|-------------|------|
| 575 &<br>580 | Assemble Action<br>and Stock                                   |          | 5/3/91      | KS   |
| 600          | Proof                                                          |          | 5/3/91      | KS   |
| 607          | Check Headspace                                                |          | 5/3/91      | KS   |
| 610          | Dis-assemble Gun                                               |          | 5/3/91      | KS   |
| 612          | Magnaflux Barrel<br>Action                                     |          | JUL 2 1991  | KR   |
|              | Magnaflux Bolt                                                 |          | JUL 2 1991  | KR   |
| 615          | Rollmark Caliber                                               |          | JUL 2 1991  | KR   |
| 617          | Drill and Tap Sight Holes                                      |          | JUL 2 1991  | LB   |
| 618          | Polish Barrel                                                  |          | JUL 17 1991 | WB   |
| 620          | Apply Coatings<br>(Barrel Action)                              |          | 5-16-91     | LB   |
|              | Apply Coating (Bolt)                                           |          | 5-16-91     | LB   |
| 625          | Final Assembly<br>A) Clean inside of<br>Bolt Assembly          |          | 8/17/91     | KL   |
|              | B) Inspect Rear Firing<br>Pin Hole for Chamfer<br>in Bolt Head |          | 8/17/91     | KL   |
|              | C) Inspect Ejector Hole<br>for Chamfer                         |          | 8/17/91     | KL   |
|              | D) Oil Firing Pin Ass'y                                        |          | 8/17/91     | KL   |
|              | E) Adjust Trigger Pull to<br>Min Setting and Stake             |          | 8-19-91     | KL   |

| op. #        | BARBER M24 0033255                                          | READINGS |      |      |      |      | DATE    | INIT |
|--------------|-------------------------------------------------------------|----------|------|------|------|------|---------|------|
| 625<br>cont. | F) Safety On Force                                          | 6        | 6    | 6    |      |      | 8/19/91 | JK   |
|              | G) Safety Off Force                                         | 3        | 3    | 3    |      |      | 8/19/91 | JK   |
|              | H) Trigger Pull Test & Retainability                        |          |      |      |      |      | 8-19-91 | JK   |
|              | I) Firing Pin Indent                                        | .0225    | .022 | .022 |      |      | 8/19/91 | JK   |
|              | J) Assemble Stock                                           |          |      |      |      |      | 8/19/91 | JK   |
|              | K) Assemble Swivel Studs                                    |          |      |      |      |      | 8-31-91 | DH   |
|              | L) Attach Front and Rear Sight Assemblies                   |          |      |      |      |      | 8/19/91 | JK   |
|              | M) Iron Sight Alignment                                     |          |      |      |      |      | 8/19/91 | JK   |
|              | N) Detach Front & Rear Sights & place in numbered container |          |      |      |      |      | 8/19/91 | JK   |
|              | O) Attach Scope to Rifle                                    |          |      |      |      |      | 8/19/91 | JK   |
|              | P) Detach & Attach Scope 20 Times                           |          |      |      |      |      | 8/19/91 | JK   |
| 640          | Gallery Target & Test                                       |          |      |      |      |      | 8-20-91 | NF   |
|              | A) Time                                                     |          |      |      |      |      | "       | NF   |
|              | B) Malfunctions                                             |          |      |      |      |      | "       | NF   |
|              | C) Pierced Primers                                          |          |      |      |      |      | "       | NF   |
|              | D) Optical Clarity of Scope                                 |          |      |      |      |      | "       | NF   |
| 645          | Inspect for Live Ammo                                       |          |      |      |      |      | 8-20-91 | NF   |
| 655          | Final Inspection                                            |          |      |      |      |      |         |      |
|              | A) Headspace                                                |          |      |      |      |      | 8-31-91 | DH   |
|              | B) Trigger Pull                                             | 2.48     | 2.48 | 2.22 | 2.43 | 2.48 | 8/29/91 | JK   |
|              | C) Function                                                 |          |      |      |      |      | 8-31-91 | DH   |
| 660          | Pack                                                        |          |      |      |      |      | 9-17-91 | DH   |

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

SERIAL NO C-6636341  
DATE 8/22/91  
TESTER JPL

|         | 2.50#<br>INITIAL | 2.50# AFTER<br>50 CYCLES | FINAL TEST &<br>TO RESET 2.50# |      | COMMENTS                                                               |
|---------|------------------|--------------------------|--------------------------------|------|------------------------------------------------------------------------|
| PULL #1 | 2.69             | 2.63                     | 2.48                           | 2.48 | MIN. SETTING,<br>NO AVG. OF 5<br>READINGS ACCEPT-<br>ABLE LESS THAN 2# |
| PULL #2 | 2.62             | 2.66                     | 2.44                           | 2.48 |                                                                        |
| PULL #3 | 2.57             | 2.48                     | 2.55                           | 2.22 |                                                                        |
| PULL #4 | 2.42             | 2.64                     | 2.59                           | 2.43 |                                                                        |
| PULL #5 | 2.63             | 2.39                     | 2.49                           | 2.48 |                                                                        |
| TOTAL   |                  |                          |                                |      |                                                                        |
| AVG.    |                  |                          |                                |      |                                                                        |

|         | 3.00#<br>INITIAL | 3.00# AFTER<br>20 CYCLES |  | COMMENTS |
|---------|------------------|--------------------------|--|----------|
| PULL #1 | 3.53             | 3.46                     |  |          |
| PULL #2 | 3.45             | 3.42                     |  |          |
| PULL #3 | 3.49             | 3.46                     |  |          |
| PULL #4 | 3.46             | 3.45                     |  |          |
| PULL #5 | 3.53             | 3.46                     |  |          |
| 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 | 4.24             | 4.30                     |                                | 4.23                                 |
| PULL #2 | 4.29             | 4.29                     |                                | 4.26                                 |
| PULL #3 | 4.21             | 4.24                     |                                | 4.30                                 |
| PULL #4 | 4.25             | 4.21                     |                                | 4.28                                 |
| PULL #5 | 4.28             | 4.29                     |                                | 4.21                                 |
| TOTAL   |                  |                          |                                |                                      |
| AVG.    |                  |                          |                                |                                      |

Re fuger  
Full



New  
Fire ~~Control~~  
Control

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # C6636341  
23 Aug 1991

CENTROIDAL DISTANCES

|      |   |          |
|------|---|----------|
| 0 TO | 1 | .169499  |
| 1 TO | 2 | .219329  |
| 1 TO | 3 | .196128  |
| 1 TO | 4 | .168929  |
| 1 TO | 5 | .0596657 |

\* <----POB

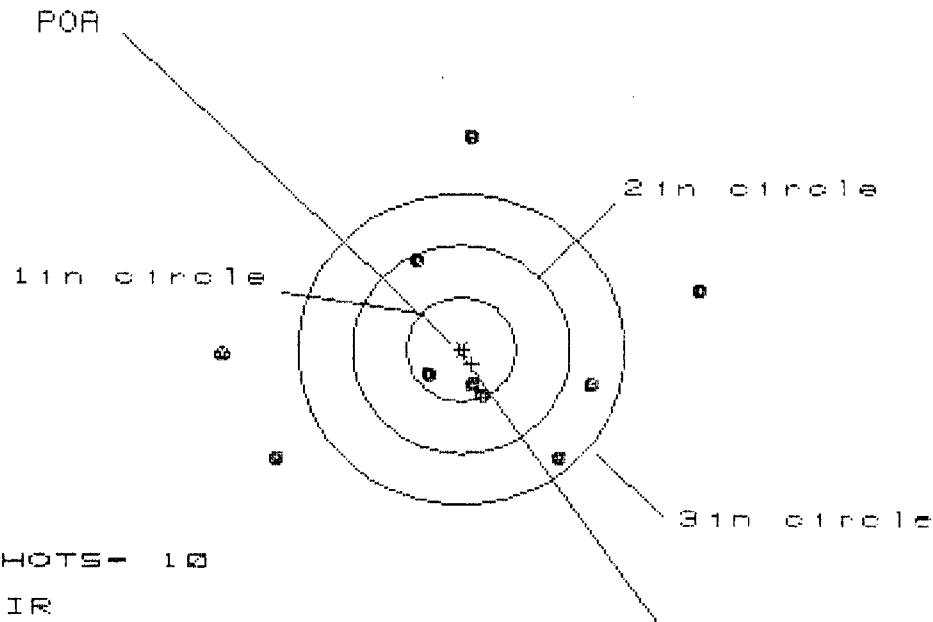
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.056  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0348  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0659321

THE AMR FOR THIS RIFLE IS: 1.156

23 Aug 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/C6636341

## CENTERFIRE PATTERNS # 1



# OF SHOTS- 10

# IN CIR

1in = 3

2in = 4

3in = 6

HS= 4.485

VS= 3.133

GS= 4.535

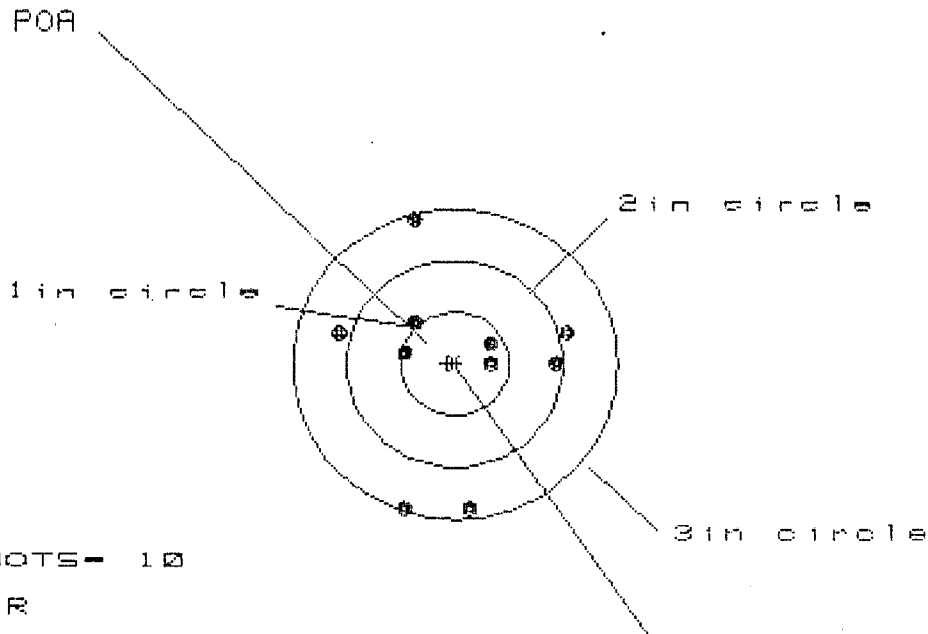
CENTROID #

| PATTERN #                     | 1      | 2      | 3      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | 2.235  | 1.467  | 1.217  |
| MINIMUM X                     | -2.250 | -2.002 | -1.726 |
| MAXIMUM Y                     | 2.078  | 2.146  | 2.146  |
| MINIMUM Y                     | -1.055 | -.987  | -.987  |
| CENTROID X                    | -.097  | -.345  | -.095  |
| CENTROID Y                    | .139   | .071   | .071   |
| POA TO CENTROID in.           | .169   | .352   | .118   |
| MIN RADIUS                    | .360   | .191   | .296   |
| MEAN RADIUS                   | 1.342  | 1.226  | 1.089  |
| MAX RADIUS                    | 2.315  | 2.166  | 2.147  |
| HORIZONTAL SPREAD             | 4.485  | 3.469  | 2.943  |
| VERTICAL SPREAD               | 3.133  | 3.133  | 3.133  |
| EXTREME SPREAD                | 4.535  | 3.600  | 3.600  |
| NUMBER IN ONE INCH CIRCLE =   | 3      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 4      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 6      |        |        |

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## CENTERFIRE PATTERNS # 2



# OF SHOTS - 10

# IN CIR

1 in = 3

2 in = 5

3 in = 10

HS = 2.184

VS = 2.825

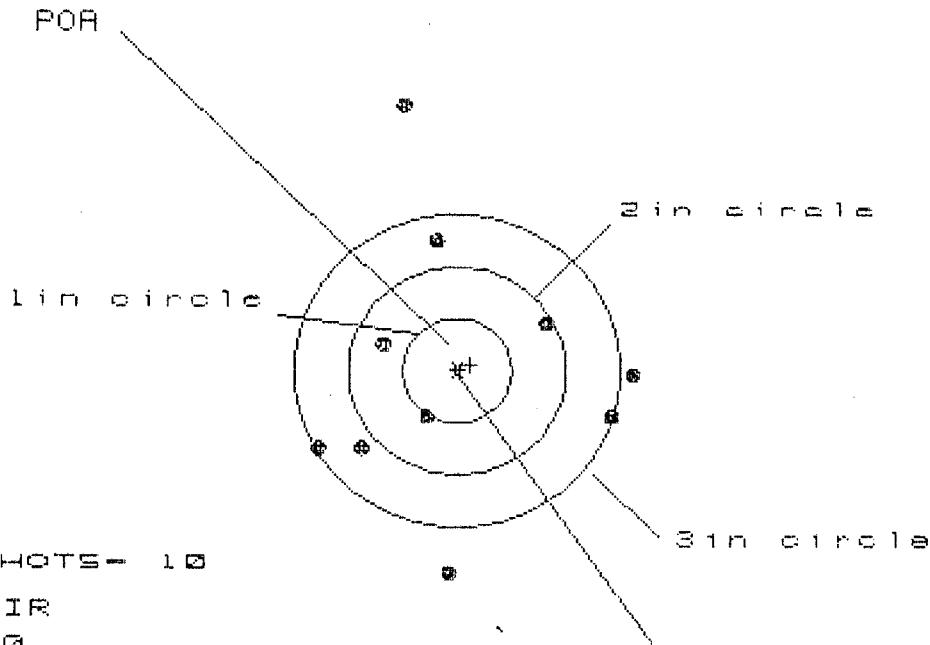
GS = 2.828

| PATTERN #                     | 2      |        |        |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | 1.067  | 1.016  | .969   |
| MINIMUM X                     | -1.117 | -1.168 | -1.215 |
| MAXIMUM Y                     | 1.406  | 1.249  | .403   |
| MINIMUM Y                     | -1.419 | -1.538 | -1.382 |
| CENTROID X                    | .071   | .122   | .169   |
| CENTROID Y                    | -.002  | .155   | -.001  |
| POA TO CENTROID in.           | .071   | .198   | .169   |
| MIN RADIUS                    | .298   | .277   | .199   |
| MEAN RADIUS                   | .923   | .835   | .773   |
| MAX RADIUS                    | 1.493  | 1.539  | 1.382  |
| HORIZONTAL SPREAD             | 2.184  | 2.184  | 2.184  |
| VERTICAL SPREAD               | 2.825  | 2.787  | 1.785  |
| EXTREME SPREAD                | 2.828  | 2.818  | 2.185  |
| NUMBER IN ONE INCH CIRCLE =   |        | 3      |        |
| NUMBER IN TWO INCH CIRCLE =   |        | 5      |        |
| NUMBER IN THREE INCH CIRCLE = |        | 10     |        |

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## CENTERFIRE PATTERNS # 3



# OF SHOTS- 10

# IN CIR

1 in = 0

2 in = 3

3 in = 5

HS= 2.910

VS= 4.432

GS= 4.447

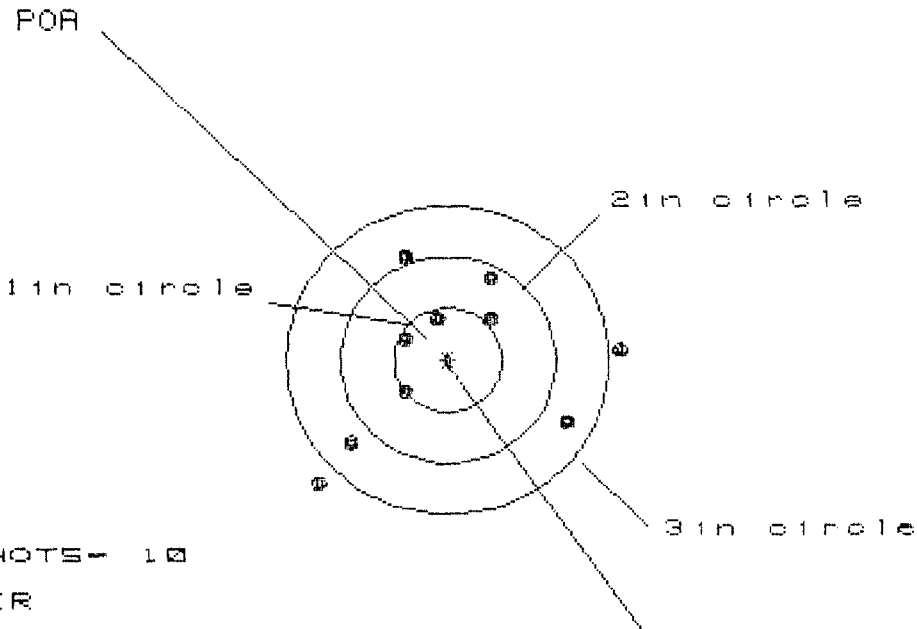
CENTROID #

| PATTERN #                   | 3      |        |        |
|-----------------------------|--------|--------|--------|
| SHOTS (BEST OF)             | 10     | 9      | 8      |
| MAXIMUM X                   | 1.602  | 1.552  | 1.535  |
| MINIMUM X                   | -1.308 | -1.358 | -1.375 |
| MAXIMUM Y                   | 2.506  | 1.513  | 1.307  |
| MINIMUM Y                   | -1.926 | -1.648 | -1.715 |
| CENTROID X                  | -1.118 | -0.068 | -0.051 |
| CENTROID Y                  | -0.056 | -0.334 | -0.128 |
| POA TO CENTROID in.         | .130   | .341   | .138   |
| MIN RADIUS                  | .573   | .416   | .557   |
| MEAN RADIUS                 | 1.369  | 1.219  | 1.155  |
| MAX RADIUS                  | 2.546  | 1.653  | 1.550  |
| HORIZONTAL SPREAD           | 2.910  | 2.910  | 2.910  |
| VERTICAL SPREAD             | 4.432  | 3.161  | 2.022  |
| EXTREME SPREAD              | 4.447  | 3.163  | 3.002  |
| NUMBER IN ONE INCH CIRCLE   | =      | 0      |        |
| NUMBER IN TWO INCH CIRCLE   | =      | 3      |        |
| NUMBER IN THREE INCH CIRCLE | =      | 5      |        |

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## CENTERFIRE PATTERNS # 4



# OF SHOTS- 10

# IN CIR

1in = 3

2in = 5

3in = 8

HS= 2.746

VS= 2.140

GS= 3.028

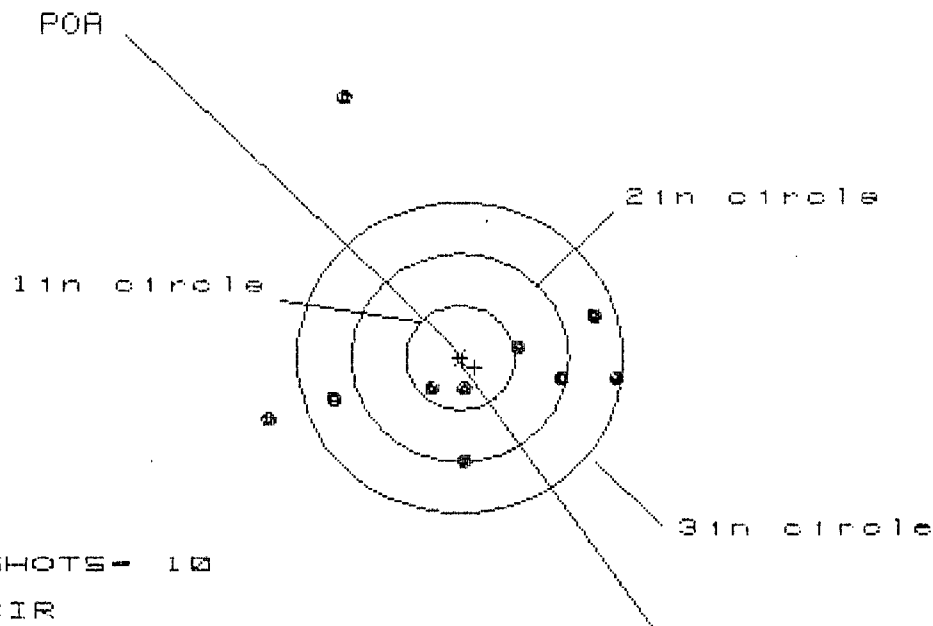
CENTROID \*

| PATTERN #                   | : | 4      |        |       |
|-----------------------------|---|--------|--------|-------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8     |
| MAXIMUM X                   | : | 1.558  | 1.426  | 1.136 |
| MINIMUM X                   | : | -1.188 | -1.078 | -.900 |
| MAXIMUM Y                   | : | .961   | .830   | .826  |
| MINIMUM Y                   | : | -1.179 | -.961  | -.965 |
| CENTROID X                  | : | -.001  | .131   | -.047 |
| CENTROID Y                  | : | -.000  | .131   | .135  |
| POA TO CENTROID in.         | : | .001   | .185   | .143  |
| MIN RADIUS                  | : | .405   | .354   | .262  |
| MEAN RADIUS                 | : | .958   | .859   | .756  |
| MAX RADIUS                  | : | 1.674  | 1.444  | 1.356 |
| HORIZONTAL SPREAD           | : | 2.746  | 2.504  | 2.036 |
| VERTICAL SPREAD             | : | 2.140  | 1.791  | 1.791 |
| EXTREME SPREAD              | : | 3.028  | 2.670  | 2.162 |
| NUMBER IN ONE INCH CIRCLE   | = |        | 3      |       |
| NUMBER IN TWO INCH CIRCLE   | = |        | 5      |       |
| NUMBER IN THREE INCH CIRCLE | = |        | 8      |       |

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## CENTERFIRE PATTERNS # 5



# OF SHOTS- 10

# IN CIR

1in = 2

2in = 4

3in = 8

HS = 3.157

VS = 3.527

GS = 3.698

CENTROID #

| PATTERN #                     | : | 5      |        |        |
|-------------------------------|---|--------|--------|--------|
| SHOTS (BEST OF)               | : | 10     | 9      | 8      |
| MAXIMUM X                     | : | 1.409  | 1.293  | 1.060  |
| MINIMUM X                     | : | -1.748 | -1.864 | -1.532 |
| MAXIMUM Y                     | : | 2.498  | .660   | .621   |
| MINIMUM Y                     | : | -1.029 | -.751  | -.790  |
| CENTROID X                    | : | -.135  | -.019  | .214   |
| CENTROID Y                    | : | .093   | -.185  | -.146  |
| POA TO CENTROID in.           | : | .164   | .186   | .259   |
| MIN RADIUS                    | : | .333   | .103   | .334   |
| MEAN RADIUS                   | : | 1.189  | .952   | .925   |
| MAX RADIUS                    | : | 2.708  | 1.890  | 1.541  |
| HORIZONTAL SPREAD             | : | 3.157  | 3.157  | 2.592  |
| VERTICAL SPREAD               | : | 3.527  | 1.411  | 1.411  |
| EXTREME SPREAD                | : | 3.698  | 3.180  | 2.598  |
| NUMBER IN ONE INCH CIRCLE =   |   |        | 2      |        |
| NUMBER IN TWO INCH CIRCLE =   |   |        | 4      |        |
| NUMBER IN THREE INCH CIRCLE = |   |        | 8      |        |