

SMITH  
Smead®  
MIL. 0 123 21

FORM

UPC



0 47700 25716 2

C6649041

CAPACITY\*  
\*INCLUDES 1 INCHAMBER

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER  
KINZER V. REMINGTON

M2400031000

ORDER NO.

5715

JO TM M24

# Remington



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

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

**SERIAL NO.**

**C6649041**

**ORDER NO.**

**5716**

20

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



5716 C6649041

**ORDER 5716**

MODEL 700 <sup>TM</sup> M24

**UPC**

**ORDER 5716**

MODEL 700 <sup>TM</sup> M24

**UPC**



0 47700 25716 7



0 47700 25716 7

MOD. \_\_\_\_\_ GA. \_\_\_\_\_ GUN # 6649041  
 CAL. \_\_\_\_\_

| #   | DATE     | MALFUNCTION/DEFECT                | ASSEM. # |
|-----|----------|-----------------------------------|----------|
| 1st |          | operator sticks                   | RW       |
| 2nd | 12/11/91 | Repaired<br>K.S.                  |          |
| 3rd |          | 100 Rds test<br>AC OK<br>12-12-91 |          |
| 4th |          |                                   |          |

FUNCTION \_\_\_\_\_

RD 6654 Rev 1

| TEST INIT. ACTION TO CORRECT |                            | ASSEM.<br># |
|------------------------------|----------------------------|-------------|
| PROOF                        | 100 Rd test OK<br>12-12-91 |             |
| TEST AC                      |                            |             |
| TGT                          |                            |             |
| PROOF                        |                            |             |
| TEST                         |                            |             |
| TGT                          |                            |             |
| PROOF                        | ENGINEER                   |             |
| TEST                         |                            |             |
| TGT                          |                            |             |
| PROOF                        | ENGINEER                   |             |
| TEST                         |                            |             |
| TGT                          |                            |             |

**GFM**

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C664904/

| OP. #        | OP. NAME                                                       | READINGS | DATE     | INIT |
|--------------|----------------------------------------------------------------|----------|----------|------|
| 575 &<br>580 | Assemble Action<br>and Stock                                   | 9 26     | 9 1      | RW   |
| 600          | Proof                                                          | 9 26     | 9 1      | RW   |
| 607          | Check Headspace                                                | 9 26     | 9 1      | RW   |
| 610          | Dis-assemble Gun                                               | 9 2      | 9 1      | RW   |
| 612          | Magnaflux Barrel<br>Action                                     | OCT      | 3 1991   | KCR  |
|              | Magnaflux Bolt                                                 | OCT      | 3 1991   | KCR  |
| 615          | Rollmark Caliber                                               | OCT      | 3 1991   | EG   |
| 617          | Drill and Tap Sight Holes                                      | OCT      | 4 1991   | EB   |
| 618          | Polish Barrel                                                  | OCT      | 4 1991   | WB   |
| 620          | Apply Coatings<br>(Barrel Action)                              |          | 10-18-91 | TH   |
|              | Apply Coating (Bolt)                                           |          |          |      |
| 625          | Final Assembly<br>A) Clean inside of<br>Bolt Assembly          |          | 10/18/91 | RW   |
|              | B) Inspect Rear Firing<br>Pin Hole for Chamfer<br>in Bolt Head |          | 10/18/91 | RW   |
|              | C) Inspect Ejector Hole<br>for Chamfer                         |          | 10/18/91 | RW   |
|              | D) Oil Firing Pin Ass'y                                        |          | 10/18/91 | RW   |
|              | E) Adjust Trigger Pull to<br>Min Setting and Stake             |          | 11-11-91 | gcl  |

|              |                                                             |                       |       |       |          |          |          |     |
|--------------|-------------------------------------------------------------|-----------------------|-------|-------|----------|----------|----------|-----|
| 625<br>cont. | F) Safety On Force                                          | 4                     | 4     | 4     | 11-11-91 | YH       |          |     |
|              | G) Safety Off Force                                         | 3                     | 3     | 3     | 11-11-91 | YH       |          |     |
|              | H) Trigger Pull Test & Retainability                        |                       |       |       | 11-11-91 | YH       |          |     |
|              | I) Firing Pin Indent                                        | .020                  | .0205 | .0205 | 11-11-91 | YH       |          |     |
|              | J) Assemble Stock                                           |                       |       |       | 11/13/91 | RW       |          |     |
|              | K) Assemble Swivel Studs                                    |                       |       |       | 12-12-91 | YH       |          |     |
|              | L) Attach Front and Rear Sight Assemblies                   |                       |       |       | 11/13/91 | RW       |          |     |
|              | M) Iron Sight Alignment                                     |                       |       |       | 11/13/91 | RW       |          |     |
|              | N) Detach Front & Rear Sights & place in numbered container |                       |       |       | 11/13/91 | RW       |          |     |
|              | O) Attach Scope to Rifle                                    |                       |       |       | 11/13/91 | RW       |          |     |
|              | P) Detach & Attach Scope 20 Times                           |                       |       |       | 11/13/91 | RW       |          |     |
| 640          | Gallery Target & Test                                       |                       |       |       | 11-15-91 | AC       |          |     |
|              | A) Time                                                     |                       |       |       | 11-15-91 | AC       |          |     |
|              | B) Malfunctions                                             |                       |       |       | 11-15-91 | AC       |          |     |
|              | C) Pierced Primers                                          |                       |       |       | 11-15-91 | AC       |          |     |
|              | D) Optical Clarity of Scope                                 |                       |       |       | 11-15-91 | AC       |          |     |
|              | 645                                                         | Inspect for Live Ammo |       |       |          | 11-15-91 | AC       |     |
| 655          | Final Inspection                                            |                       |       |       |          |          |          |     |
|              | A) Headspace                                                |                       |       |       | 12-12-91 | YH       |          |     |
|              | B) Trigger Pull                                             | 235                   | 237   | 243   | 237      | 216      | 11-15-91 | D/H |
|              | C) Function                                                 |                       |       |       |          |          | 12-12-91 | YH  |
| 660          | Pack                                                        |                       |       |       |          |          | 12-17-91 | V   |

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN  
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. 0-6649041

DATE 11-11-91

TESTER JH

|         | 2.50#<br>INITIAL | 2.50# AFTER<br>50 CYCLES | FINAL TEST &<br>TO RESET 2.50# |      | COMMENTS                                                               |
|---------|------------------|--------------------------|--------------------------------|------|------------------------------------------------------------------------|
| PULL #1 | 2.59             | 2.55                     | 2.48                           | 2.35 | MIN. SETTING,<br>NO AVG. OF 5<br>READINGS ACCEPT-<br>ABLE LESS THAN 2# |
| PULL #2 | 2.38             | 2.38                     | 2.44                           | 2.37 |                                                                        |
| PULL #3 | 2.52             | 2.44                     | 2.39                           | 2.43 |                                                                        |
| PULL #4 | 2.48             | 2.51                     | 2.50                           | 2.37 |                                                                        |
| PULL #5 | 2.48             | 2.46                     | 2.51                           | 2.16 |                                                                        |
| TOTAL   |                  |                          |                                |      |                                                                        |
| AVG.    |                  |                          |                                |      |                                                                        |

|         | 3.00#<br>INITIAL | 3.00# AFTER<br>20 CYCLES |  | COMMENTS |
|---------|------------------|--------------------------|--|----------|
| PULL #1 | 3.54             | 3.25                     |  |          |
| PULL #2 | 3.44             | 3.38                     |  |          |
| PULL #3 | 3.37             | 3.51                     |  |          |
| PULL #4 | 3.39             | 3.34                     |  |          |
| PULL #5 | 3.54             | 3.34                     |  |          |
| 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 | 4.25             | 4.33                     |                                | 4.35                                 |
| PULL #2 | 4.40             | 4.35                     |                                | 4.35                                 |
| PULL #3 | 4.35             | 4.37                     |                                | 4.26                                 |
| PULL #4 | 4.34             | 4.38                     |                                | 4.23                                 |
| PULL #5 | 4.23             | 4.35                     |                                | 4.31                                 |
| TOTAL   |                  |                          |                                |                                      |
| AVG.    |                  |                          |                                |                                      |

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # C6649041  
18 Nov 1991

CENTROIDAL DISTANCES

|      |   |         |
|------|---|---------|
| 0 TO | 1 | .264038 |
| 1 TO | 2 | .372776 |
| 1 TO | 3 | .336809 |
| 1 TO | 4 | .381792 |
| 1 TO | 5 | .285428 |

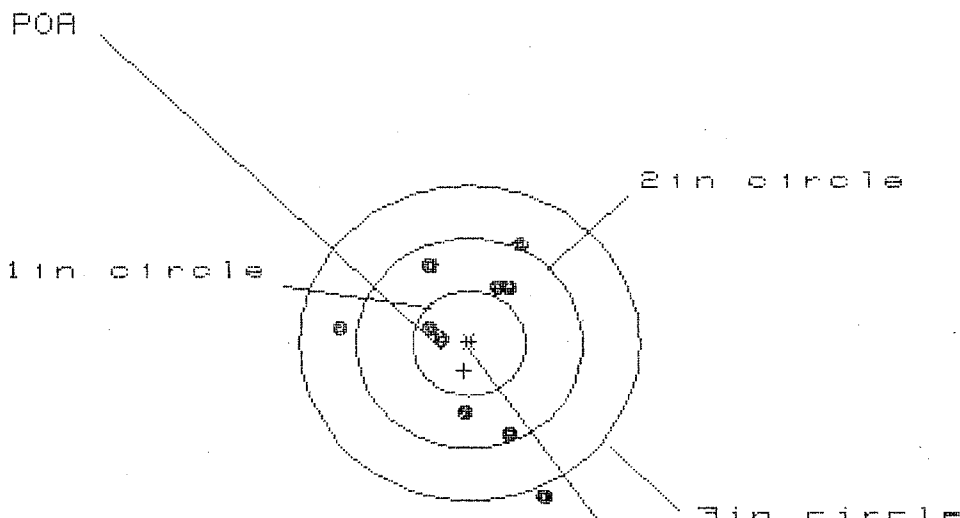
~~12~~ <----FOR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .1694  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0594  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .179512  
THE AMR FOR THIS RIFLE IS: .9746

16 Nov 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/C6649041

# CENTERFIRE PATTERNS # 1



# OF SHOTS= 10

# IN CIR

1in = 2

2in = 7

3in = 8

HS= 1.834

VS= 2.412

GS= 2.455

CENTROID #

|                             |   |        |        |        |
|-----------------------------|---|--------|--------|--------|
| PATTERN #                   | : | 1      |        |        |
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | .691   | .548   | .415   |
| MINIMUM X                   | : | -1.143 | -1.066 | -.434  |
| MAXIMUM Y                   | : | .934   | .770   | .769   |
| MINIMUM Y                   | : | -1.478 | -1.025 | -1.026 |
| CENTROID X                  | : | .046   | -.031  | .102   |
| CENTROID Y                  | : | .260   | .424   | .425   |
| POA TO CENTROID in.         | : | .264   | .425   | .437   |
| MIN RADIUS                  | : | .217   | .220   | .322   |
| MEAN RADIUS                 | : | .807   | .682   | .637   |
| MAX RADIUS                  | : | 1.631  | 1.114  | 1.070  |
| HORIZONTAL SPREAD           | : | 1.834  | 1.614  | .849   |
| VERTICAL SPREAD             | : | 2.412  | 1.795  | 1.795  |
| EXTREME SPREAD              | : | 2.455  | 1.814  | 1.798  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 2      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 7      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 9      |        |

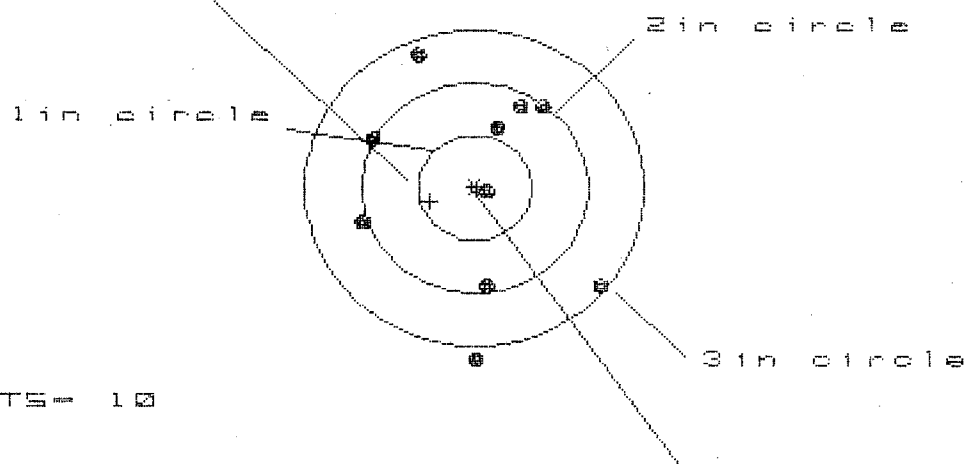
18 May 1991

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# CENTERFIRE PATTERNS

# 2

POA



# OF SHOTS- 10

# IN CIR

1in = 1

2in = 4

3in = 9

HS- 2.056

VS= 2.912

GS= 2.955

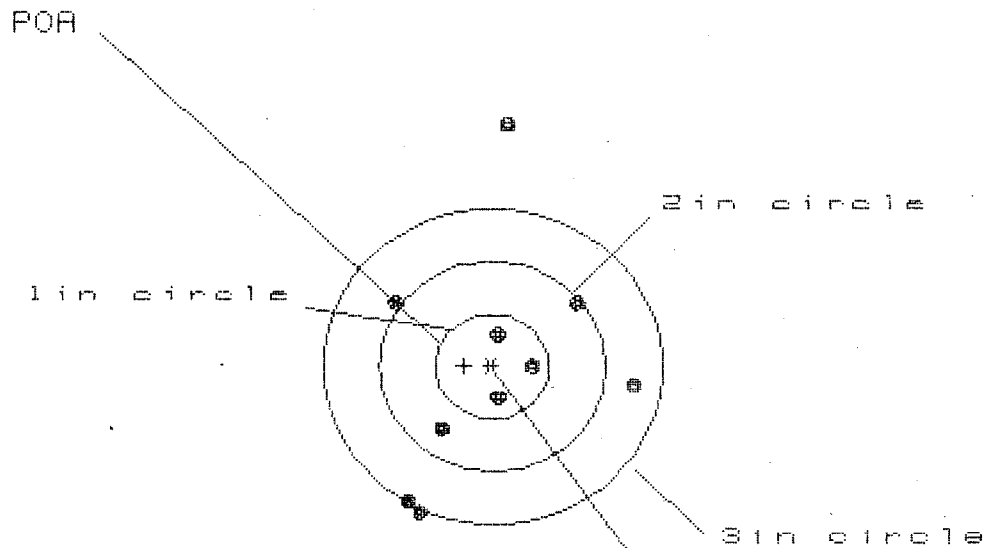
CENTROID #

| PATTERN #                   | : | 2      |        |        |
|-----------------------------|---|--------|--------|--------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 1.098  | 1.096  | .740   |
| MINIMUM X                   | : | -.958  | -.960  | -.823  |
| MAXIMUM Y                   | : | 1.270  | 1.088  | .949   |
| MINIMUM Y                   | : | -1.642 | -1.130 | -1.269 |
| CENTROID X                  | : | .395   | .397   | .260   |
| CENTROID Y                  | : | .129   | .311   | .450   |
| POA TO CENTROID in.         | : | .415   | .505   | .520   |
| MIN RADIUS                  | : | .139   | .282   | .418   |
| MEAN RADIUS                 | : | 1.009  | .919   | .830   |
| MAX RADIUS                  | : | 1.642  | 1.558  | 1.283  |
| HORIZONTAL SPREAD           | : | 2.056  | 2.056  | 1.563  |
| VERTICAL SPREAD             | : | 2.912  | 2.218  | 2.218  |
| EXTREME SPREAD              | : | 2.955  | 2.732  | 2.294  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 1      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 4      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 9      |        |

18 Nov 1991

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# CENTERFIRE PATTERNS # 3



# OF SHOTS- 10

# IN CIR

1in = 3

2in = 5

3in = 8

HS= 2.076

VS= 3.664

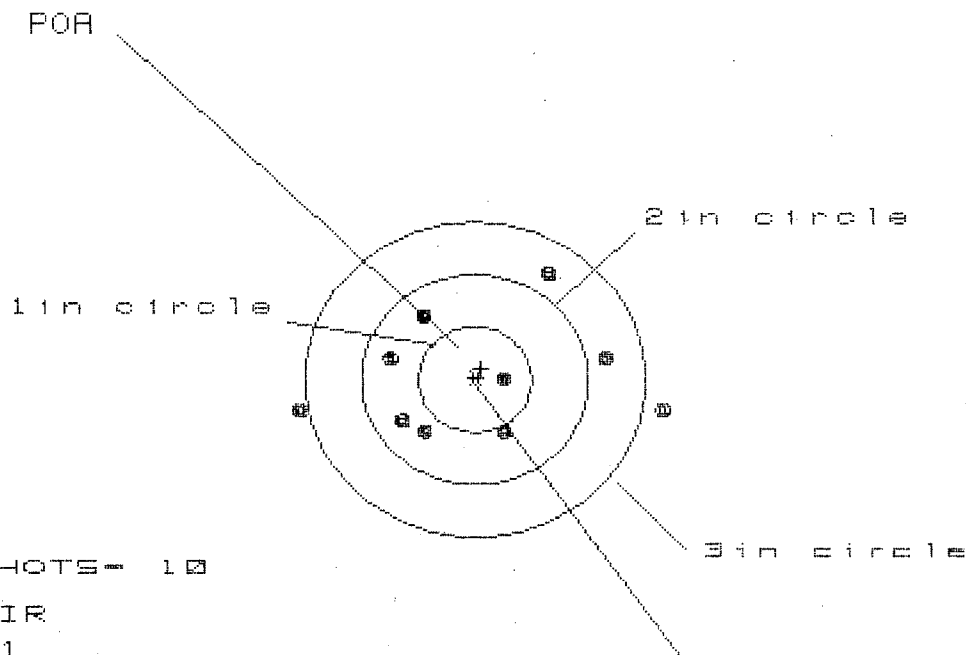
GS= 3.755

|                             |   |        |        |        |
|-----------------------------|---|--------|--------|--------|
| PATTERN #                   | : | 3      |        |        |
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 1.268  | 1.284  | 1.202  |
| MINIMUM X                   | : | -.808  | -.792  | -.874  |
| MAXIMUM Y                   | : | 2.272  | .900   | .758   |
| MINIMUM Y                   | : | -1.391 | -1.139 | -1.164 |
| CENTROID X                  | : | .250   | .234   | .316   |
| CENTROID Y                  | : | -.008  | -.261  | -.119  |
| POA TO CENTROID in.         | : | .250   | .350   | .338   |
| MIN RADIUS                  | : | .303   | .104   | .183   |
| MEAN RADIUS                 | : | 1.019  | .860   | .783   |
| MAX RADIUS                  | : | 2.277  | 1.316  | 1.399  |
| HORIZONTAL SPREAD           | : | 2.076  | 2.076  | 2.076  |
| VERTICAL SPREAD             | : | 3.664  | 2.039  | 1.922  |
| EXTREME SPREAD              | : | 3.755  | 2.410  | 2.337  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 3      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 5      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 8      |        |

18 Nov 1991

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CENTERFIRE PATTERNS # 4



# OF SHOTS- 10

# IN CIR

1in - 1

2in - 6

3in - 8

HS- 3.110

VS- 1.539

GS- 3.110

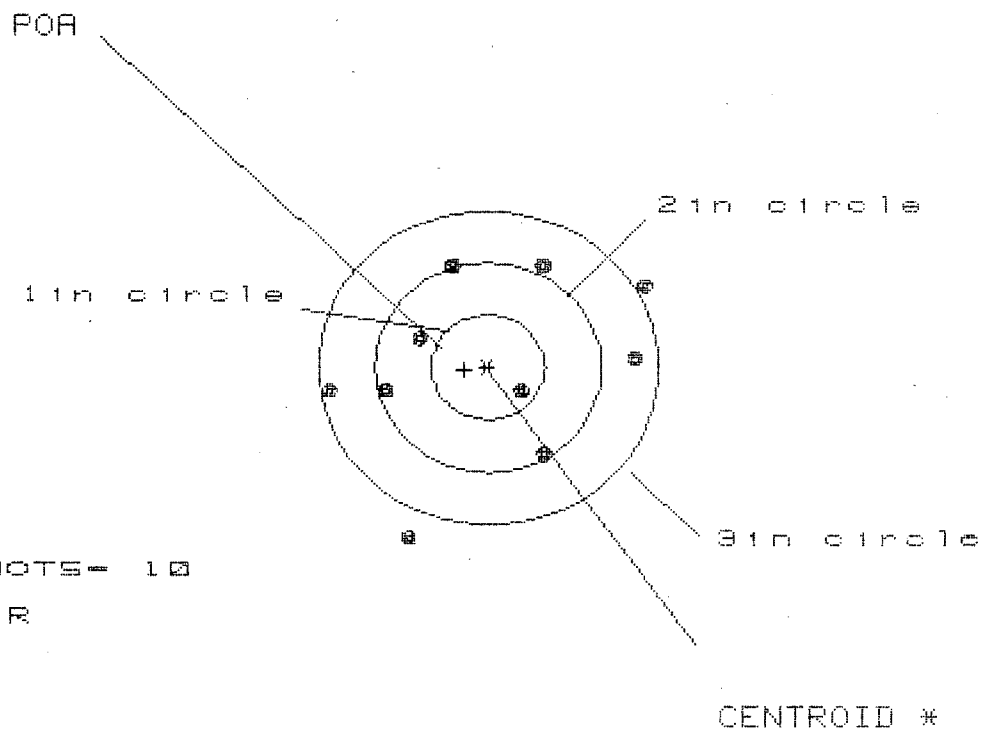
CENTROID #

| PATTERN #                   | : | 4      |        |       |
|-----------------------------|---|--------|--------|-------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8     |
| MAXIMUM X                   | : | 1.608  | 1.294  | 1.129 |
| MINIMUM X                   | : | -1.502 | -1.323 | -.774 |
| MAXIMUM Y                   | : | 1.040  | 1.004  | .960  |
| MINIMUM Y                   | : | -.499  | -.535  | -.579 |
| CENTROID X                  | : | -.052  | -.231  | -.066 |
| CENTROID Y                  | : | -.109  | -.073  | -.029 |
| POR TO CENTROID in.         | : | .121   | .242   | .072  |
| MIN RADIUS                  | : | .244   | .425   | .273  |
| MEAN RADIUS                 | : | .932   | .840   | .771  |
| MAX RADIUS                  | : | 1.640  | 1.369  | 1.159 |
| HORIZONTAL SPREAD           | : | 3.110  | 2.617  | 1.903 |
| VERTICAL SPREAD             | : | 1.539  | 1.539  | 1.539 |
| EXTREME SPREAD              | : | 3.110  | 2.668  | 1.942 |
| NUMBER IN ONE INCH CIRCLE   | = |        | 1      |       |
| NUMBER IN TWO INCH CIRCLE   | = |        | 6      |       |
| NUMBER IN THREE INCH CIRCLE | = |        | 8      |       |

18 Nov 1991

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# CENTERFIRE PATTERNS # 5



# OF SHOTS- 10

# IN CIR

1in = 1

2in = 4

3in = 8

HS= 2.855

VS= 2.543

GS= 3.117

|                               |   |        |        |        |
|-------------------------------|---|--------|--------|--------|
| PATTERN #                     | : | 5      |        |        |
| SHOTS (BEST OF)               | : | 10     | 9      | 8      |
| MAXIMUM X                     | : | 1.403  | 1.328  | 1.400  |
| MINIMUM X                     | : | -1.452 | -1.527 | -1.361 |
| MAXIMUM Y                     | : | .966   | .790   | .861   |
| MINIMUM Y                     | : | -1.577 | -1.043 | -.972  |
| CENTROID X                    | : | .208   | .283   | .117   |
| CENTROID Y                    | : | .025   | .200   | .129   |
| POA TO CENTROID in.           | : | .209   | .347   | .174   |
| MIN RADIUS                    | : | .361   | .430   | .494   |
| MEAN RADIUS                   | : | 1.106  | 1.028  | .961   |
| MAX RADIUS                    | : | 1.717  | 1.579  | 1.400  |
| HORIZONTAL SPREAD             | : | 2.855  | 2.855  | 2.761  |
| VERTICAL SPREAD               | : | 2.543  | 1.833  | 1.933  |
| EXTREME SPREAD                | : | 3.117  | 3.014  | 2.779  |
| NUMBER IN ONE INCH CIRCLE =   |   |        | 1      |        |
| NUMBER IN TWO INCH CIRCLE =   |   |        | 4      |        |
| NUMBER IN THREE INCH CIRCLE = |   |        | 8      |        |