

C6636009

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5715**

\*Includes 1 in chamber.



MOD. \_\_\_\_\_ GA. CAL. \_\_\_\_\_ GUN # 6009

| #<br>TEST | DATE    | MALFUNCTION/DEFECT               | ASSEM.<br>#   |
|-----------|---------|----------------------------------|---------------|
|           | 1st     |                                  |               |
| N-        | 6/13    | Hard Safe<br>+<br>B.H. Hit Stock | KS            |
|           | 2nd     |                                  |               |
|           | 4/13/91 | FILED<br>STOCK<br>Repair         | KS            |
|           | 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**<sup>®</sup>

MODEL 700<sup>™</sup> H24

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

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

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

SERIAL NO.  
C6636009

ORDER NO.  
5716

06

5716 C6636009

UPC

0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6636009

| OP. #        | OP. NAME                                                       | READINGS | DATE    | INIT |
|--------------|----------------------------------------------------------------|----------|---------|------|
| 575 &<br>580 | Assemble Action<br>and Stock                                   |          | 4/23/91 | K.S. |
| 600          | Proof                                                          |          | 4/23/91 | K.S. |
| 607          | Check Headspace                                                |          | 4/23/91 | K.S. |
| 610          | Dis-assemble Gun                                               |          | 4/23/91 | K.S. |
| 612          | Magnaflux Barrel<br>Action                                     | 5 8 9 1  |         | KCK  |
|              | Magnaflux Bolt                                                 | 5 8 9 1  |         | KCK  |
| 615          | Rollmark Caliber                                               | 5 8 9 1  |         | GB   |
| 617          | Drill and Tap Sight Holes                                      | 5 15 9 1 |         | FB   |
| 618          | Polish Barrel                                                  | 5 15 9 1 |         | WB   |
| 620          | Apply Coatings<br>(Barrel Action)                              |          | 5-31-91 |      |
|              | Apply Coating (Bolt)                                           |          |         |      |
| 625          | Final Assembly<br>A) Clean inside of<br>Bolt Assembly          |          | 4/11/91 | KS   |
|              | B) Inspect Rear Firing<br>Pin Hole for Chamfer<br>in Bolt Head |          | 4/11/91 | KS   |
|              | C) Inspect Ejector Hole<br>for Chamfer                         |          | 4/11/91 | KS   |
|              | D) Oil Firing Pin Ass'y                                        |          | 4/11/91 | KS   |
|              | E) Adjust Trigger Pull to<br>Min Setting and Stake             |          | 6-12-91 | DH   |

| op. #        | BARBER - M24 0036620                                        | READINGS |      |       |      |      | DATE    | INIT |
|--------------|-------------------------------------------------------------|----------|------|-------|------|------|---------|------|
| 625<br>cont. | F) Safety On Force                                          | 7        | 7    | 6 1/2 |      |      | 6-12-91 | DH   |
|              | G) Safety Off Force                                         | 4        | 4    | 4     |      |      | 6-12-91 | DH   |
|              | H) Trigger Pull Test & Retainability                        |          |      |       |      |      | 6-12-91 | DH   |
|              | I) Firing Pin Indent                                        | .021     | .021 | .021  |      |      | 6-12-91 | DH   |
|              | J) Assemble Stock                                           |          |      |       |      |      | 4/12/91 | KS   |
|              | K) Assemble Swivel Studs                                    |          |      |       |      |      | 6-14-91 | JH   |
|              | L) Attach Front and Rear Sight Assemblies                   |          |      |       |      |      | 4/12/91 | KS   |
|              | M) Iron Sight Alignment                                     |          |      |       |      |      | 4/12/91 | KS   |
|              | N) Detach Front & Rear Sights & place in numbered container |          |      |       |      |      | 4/12/91 | KS   |
|              | O) Attach Scope to Rifle                                    |          |      |       |      |      | 4/12/91 | KS   |
|              | P) Detach & Attach Scope 20 Times                           |          |      |       |      |      | 4/12/91 | KS   |
| 640          | Gallery Target & Test                                       |          |      |       |      |      | 6-13-91 | AF   |
|              | A) Time                                                     |          |      |       |      |      | "       | AF   |
|              | B) Malfunctions                                             |          |      |       |      |      | "       | AF   |
|              | C) Pierced Primers                                          |          |      |       |      |      | "       | AF   |
|              | D) Optical Clarity of Scope                                 |          |      |       |      |      | "       | AF   |
| 645          | Inspect for Live Ammo                                       |          |      |       |      |      | 6-13-91 | AF   |
| 655          | Final Inspection                                            |          |      |       |      |      |         |      |
|              | A) Headspace                                                |          |      |       |      |      | 6-14-91 | JH   |
|              | B) Trigger Pull                                             | 2.71     | 2.67 | 2.65  | 2.63 | 2.66 | 6-14-91 | JH   |
|              | C) Function                                                 |          |      |       |      |      | 6-14-91 | JH   |
| 660          | Pack                                                        |          |      |       |      |      | 6-20-91 | AF   |

AVERAGE PULL FORCE BETWEEN  
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. 06636009DATE 6-12-91TESTER JU

|         | 2.50#<br>INITIAL | 2.50# AFTER<br>50 CYCLES | FINAL TEST &<br>TO RESET 2.50# |      | COMMENTS                                                               |
|---------|------------------|--------------------------|--------------------------------|------|------------------------------------------------------------------------|
| PULL #1 | 2.61             | 2.54                     | 2.54                           | 2.71 | MIN. SETTING,<br>NO AVG. OF 5<br>READINGS ACCEPT-<br>ABLE LESS THAN 2# |
| PULL #2 | 2.50             | 2.51                     | 2.55                           | 2.67 |                                                                        |
| PULL #3 | 2.44             | 2.52                     | 2.66                           | 2.65 |                                                                        |
| PULL #4 | 2.44             | 2.49                     | 2.63                           | 2.63 |                                                                        |
| PULL #5 | 2.50             | 2.78                     | 2.66                           | 2.66 |                                                                        |
| TOTAL   |                  |                          |                                |      |                                                                        |
| AVG.    |                  |                          |                                |      |                                                                        |

|         | 3.00#<br>INITIAL | 3.00# AFTER<br>20 CYCLES |  | COMMENTS |
|---------|------------------|--------------------------|--|----------|
| PULL #1 | 3.19             | 3.20                     |  |          |
| PULL #2 | 3.33             | 3.15                     |  |          |
| PULL #3 | 3.24             | 3.20                     |  |          |
| PULL #4 | 3.25             | 3.24                     |  |          |
| 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 | 4.10             | 4.06                     |                                | 4.49                                 |
| PULL #2 | 4.10             | 4.07                     |                                | 4.54                                 |
| PULL #3 | 4.12             | 4.13                     |                                | 4.61                                 |
| PULL #4 | 4.13             | 4.09                     |                                | 4.31                                 |
| PULL #5 | 4.12             | 3.98                     |                                | 4.59                                 |
| TOTAL   |                  |                          |                                |                                      |
| AVG.    |                  |                          |                                |                                      |

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # C6636009  
13 Jun 1991

CENTROIDAL DISTANCES

|      |   |         |
|------|---|---------|
| 0 TO | 1 | .349085 |
| 1 TO | 2 | .227308 |
| 1 TO | 3 | .393554 |
| 1 TO | 4 | .53845  |
| 1 TO | 5 | .381608 |

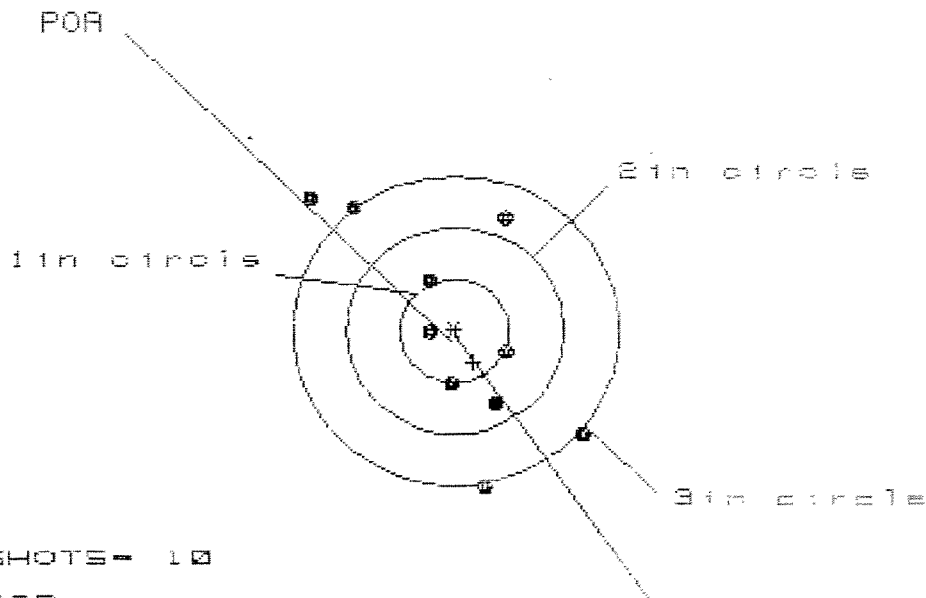
<sup>12</sup>  
37 (----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.145  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0368  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .149597  
THE AMR FOR THIS RIFLE IS: 1.027

13 Jun 1991

FILE:/PATTERNING/CENTERFIRE\_PATT/08635000

## CENTERFIRE PATTERNS # 1



# OF SHOTS = 10

# IN CIR

1in = 3

2in = 5

3in = 6

HS = 2.545

VS = 2.839

GS = 3.458

CENTROID #

| PATTERN #                     | 1      | 2      | 3      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 6      |
| MAXIMUM X                     | 1.196  | 1.046  | .467   |
| MINIMUM X                     | -1.349 | -1.104 | -.973  |
| MAXIMUM Y                     | 1.296  | 1.312  | 1.280  |
| MINIMUM Y                     | -1.544 | -1.400 | -1.512 |
| CENTROID X                    | -.168  | -.018  | -.149  |
| CENTROID Y                    | .306   | .163   | .275   |
| POR TO CENTROID in.           | .350   | .164   | .310   |
| MIN RADIUS                    | .200   | .310   | .214   |
| MEAN RADIUS                   | 1.017  | .900   | .937   |
| MPX RADIUS                    | 1.870  | 1.715  | 1.545  |
| HORIZONTAL SPREAD             | 2.545  | 2.150  | 1.440  |
| VERTICAL SPREAD               | 2.839  | 2.712  | 2.712  |
| EXTREME SPREAD                | 3.458  | 3.086  | 2.971  |
| NUMBER IN ONE INCH CIRCLE =   | 3      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 5      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 6      |        |        |

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FILE:/PATTERNING/CENTERFIRE\_PATT/C8836029

## CENTERFIRE PATTERNS

# 2

POA

1 in circle

2 in circle

3 in circle

# OF SHOTS- 10

# IN CIR

1 in = 2

2 in = 7

3 in = 9

HS= 2.232

VS= 2.276

GS= 2.426

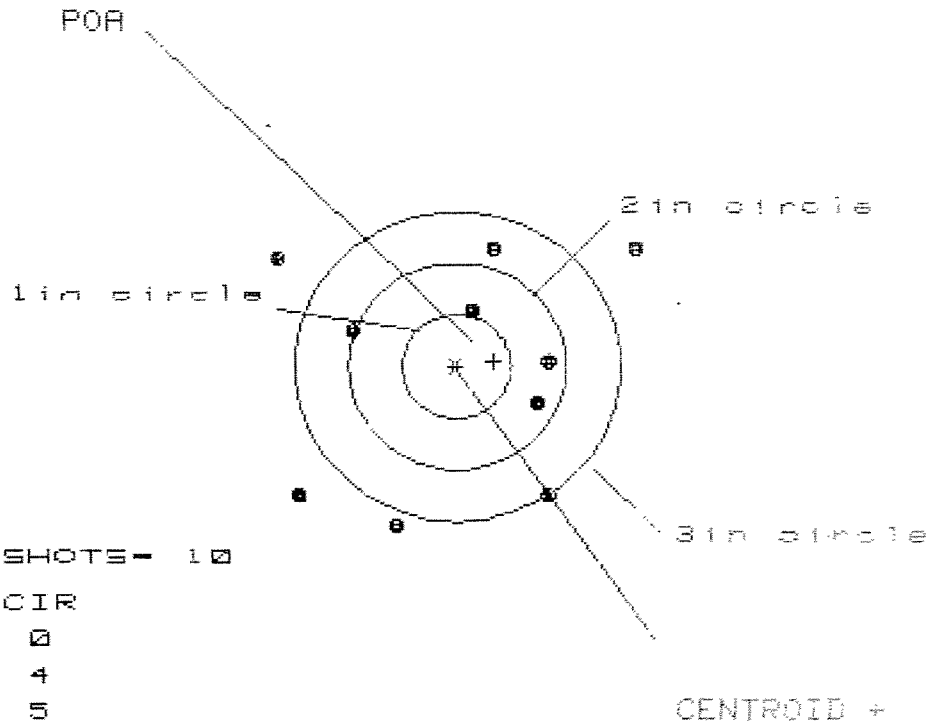
CENTROID #

| PATTERN #                   | : | 2      |        |        |
|-----------------------------|---|--------|--------|--------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 1.413  | 1.392  | .865   |
| MINIMUM X                   | : | -.819  | -.840  | -.665  |
| MAXIMUM Y                   | : | .764   | .596   | .614   |
| MINIMUM Y                   | : | -1.512 | -1.324 | -1.386 |
| CENTROID X                  | : | .042   | .063   | -.111  |
| CENTROID Y                  | : | .219   | .387   | .369   |
| POA TO CENTROID in.         | : | .223   | .392   | .385   |
| MIN RADIUS                  | : | .245   | .381   | .260   |
| MEAN RADIUS                 | : | .867   | .783   | .673   |
| MAX RADIUS                  | : | 1.523  | 1.400  | 1.324  |
| HORIZONTAL SPREAD           | : | 2.232  | 2.232  | 1.530  |
| VERTICAL SPREAD             | : | 2.276  | 1.920  | 1.920  |
| EXTREME SPREAD              | : | 2.426  | 2.241  | 1.961  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 2      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 7      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 9      |        |

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## CENTERFIRE PATTERNS # 3



# OF SHOTS- 10

# IN CIR

1in = 0

2in = 4

3in = 5

HS= 3.320

VS= 2.725

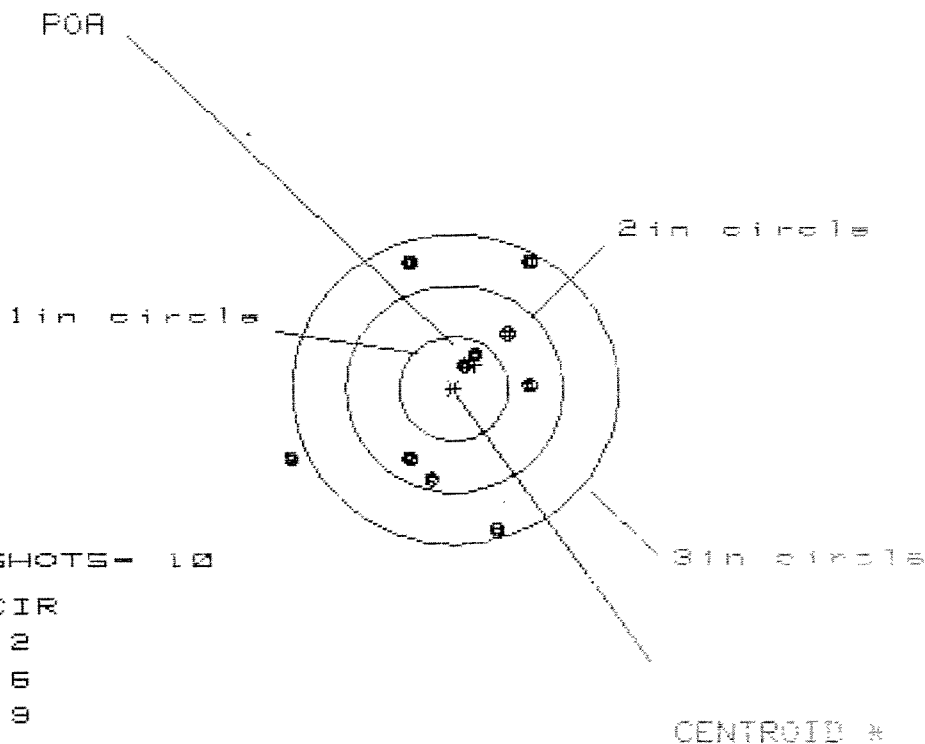
GS= 3.921

| PATTERN #                     | 3      |
|-------------------------------|--------|
| SHOTS (BEST OF)               | 10     |
| MAXIMUM X                     | 1.662  |
| MINIMUM X                     | -1.658 |
| MAXIMUM Y                     | 1.129  |
| MINIMUM Y                     | -1.537 |
| CENTROID X                    | -.342  |
| CENTROID Y                    | -.047  |
| POA TO CENTROID in.           | .345   |
| MIN RADIUS                    | .594   |
| MEAN RADIUS                   | 1.357  |
| MAX RADIUS                    | 2.011  |
| HORIZONTAL SPREAD             | 2.320  |
| VERTICAL SPREAD               | 2.725  |
| EXTREME SPREAD                | 3.921  |
| NUMBER IN ONE INCH CIRCLE =   | 0      |
| NUMBER IN TWO INCH CIRCLE =   | 4      |
| NUMBER IN THREE INCH CIRCLE = | 5      |

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## CENTERFIRE PATTERNS # 4



# OF SHOTS- 10

# IN CIR

1 in = 2

2 in = 6

3 in = 9

HS= 2.195

VS= 2.634

GS= 2.866

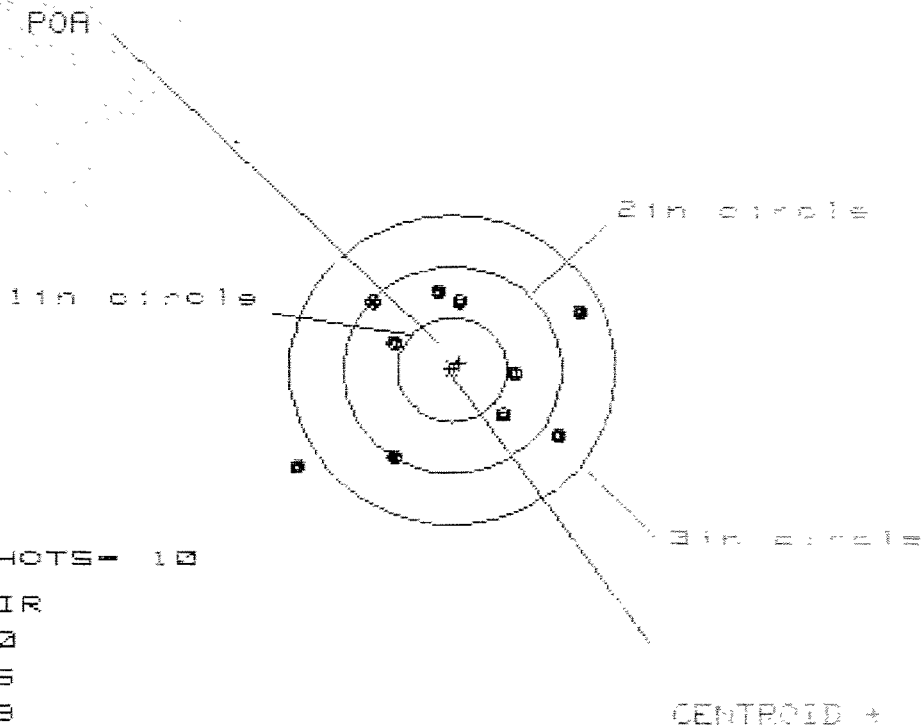
| PATTERN #                     | 4      | 9      | 8      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | .693   | .526   | .586   |
| MINIMUM X                     | -1.502 | -.592  | -.532  |
| MAXIMUM Y                     | 1.275  | 1.206  | 1.270  |
| MINIMUM Y                     | -1.359 | -1.428 | -1.277 |
| CENTROID X                    | -.190  | -.023  | -.083  |
| CENTROID Y                    | -.232  | -.160  | -.314  |
| POA TO CENTROID in.           | .300   | .165   | .025   |
| MIN RADIUS                    | .209   | .185   | .294   |
| MEAN RADIUS                   | .942   | .831   | .791   |
| MAX RADIUS                    | 1.625  | 1.443  | 1.377  |
| HORIZONTAL SPREAD             | 2.195  | 1.118  | 1.118  |
| VERTICAL SPREAD               | 2.634  | 2.634  | 2.547  |
| EXTREME SPREAD                | 2.866  | 2.670  | 2.670  |
| NUMBER IN ONE INCH CIRCLE =   | 2      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 6      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 9      |        |        |

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## CENTERFIRE PATTERNS

# 5



# OF SHOTS- 10

# IN CIR

1in = 0

2in = 6

3in = 4

HS= 2.666

VS= 1.762

GS= 3.082

| PATTERN #                     | 5      | 5     | 5     |
|-------------------------------|--------|-------|-------|
| SHOTS (BEST OF)               | 10     | 9     | 8     |
| MAXIMUM X                     | 1.205  | 1.043 | .955  |
| MINIMUM X                     | -1.461 | -.935 | -.794 |
| MAXIMUM Y                     | .792   | .684  | .742  |
| MINIMUM Y                     | -.978  | -.921 | -.863 |
| CENTROID X                    | -.067  | .095  | -.036 |
| CENTROID Y                    | -.052  | .046  | -.012 |
| POA TO CENTROID in.           | .092   | .165  | .038  |
| MIN RADIUS                    | .571   | .477  | .574  |
| MEAN RADIUS                   | .950   | .836  | .746  |
| MAX RADIUS                    | 1.753  | 1.156 | 1.280 |
| HORIZONTAL SPREAD             | 2.666  | 1.968 | 1.749 |
| VERTICAL SPREAD               | 1.762  | 1.605 | 1.605 |
| EXTREME SPREAD                | 3.082  | 2.228 | 2.306 |
| NUMBER IN ONE INCH CIRCLE =   | 0      | 0     | 0     |
| NUMBER IN TWO INCH CIRCLE =   | 6      | 6     | 6     |
| NUMBER IN THREE INCH CIRCLE = | 4      | 4     | 4     |