

Report No. 902271

RESEARCH TEST & MEASUREMENT LAB WORK REQUEST

Developmental ☒ Design Acceptance Pre-Pilot Pilot Production Acceptance	AREA OF TESTING <table> <tr> <td>☐ Safety Related</td> <td>☐ Litigation</td> </tr> <tr> <td>☐ Competitive Evaluation</td> <td>☐ Warehouse Audit</td> </tr> <tr> <td>☐ New Design</td> <td>☐ Cost Reduction</td> </tr> <tr> <td>☒ Design Change</td> <td>State <u> </u></td> </tr> <tr> <td>☐ Plant Assistance</td> <td>☒ Other <u>New CALIBER</u></td> </tr> </table>		☐ Safety Related	☐ Litigation	☐ Competitive Evaluation	☐ Warehouse Audit	☐ New Design	☐ Cost Reduction	☒ Design Change	State <u> </u>	☐ Plant Assistance	☒ Other <u>New CALIBER</u>
☐ Safety Related	☐ Litigation											
☐ Competitive Evaluation	☐ Warehouse Audit											
☐ New Design	☐ Cost Reduction											
☒ Design Change	State <u> </u>											
☐ Plant Assistance	☒ Other <u>New CALIBER</u>											
FIREARM STATS. MODEL: <u>M 700</u> CAL. or GAGE: <u>7x64</u> BARREL TYPE: <u>CUT</u> PROOFED: YES <u> </u> NO <u> X </u>	REPORT REQ'D. FORMAL <u> </u> TEST RESULTS ONLY <u> X </u>	DATE REQUESTED: <u>8-15-90</u> DATE NEEDED BY: <u>ASAP</u> REQUESTED BY: <u>F. MARTIN</u> WORK ORDER NO: <u>1118-481153</u>										

TEST TYPE			
☐ Strength Test ☒ Function Test ☒ Accuracy Test	☐ Ammunition Test ☐ Environmental Test ☐ Customer Complaint	☐ Dry Cycle Test ☐ Measurements ☐ Endurance Test	☐ Photo/Video ☐ Other <u> </u>

EXPLAIN IN DETAIL THE REASON FOR THIS TEST: 6 Guns Supplied For Field Function And 100 yd. Accuracy 3x5 Per Gun

GUNS REQUIRED:

NOTE: NO firearms or parts will be tested in the Labs unless they are accompanied by a Work Request, and both are delivered to the Labs by the designer or engineer. All Work Requests are to be filled out in detail. No Exceptions.

DATE COMPLETED:

TEST COMPLETED BY:

REPORT DATE:

MIN - 1.46

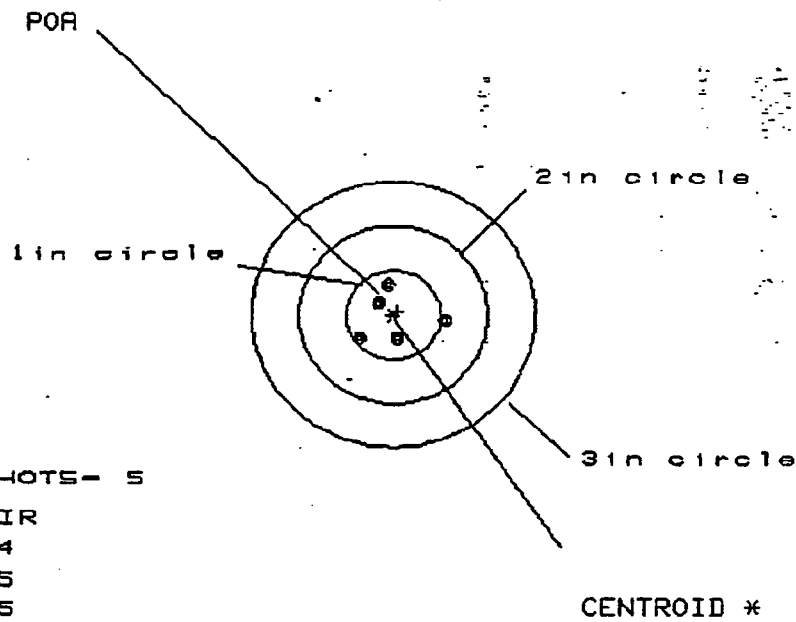
MAX - 2.34

AVG - (6 RIFLES) - 1.83

SN# 646 3032

26 Sep 1998 FILE:/PATTERNING/CENTERFIRE_PATT/C6563032-

CENTERFIRE PATTERNS # 1



OF SHOTS- 5
 # IN CIR
 1in - 4
 2in - 5
 3in - 5
 HS- .920
 VS- .600
 GS- .936
 AVG = 1.46

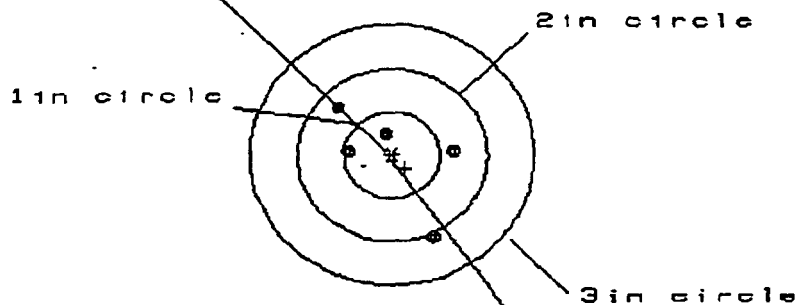
PATTERN #	:	1			
SHOTS (BEST OF)	:	5	4	3	m-700 7X64
MAXIMUM X	:	.536	.128	.045	Ammo- NORMA
MINIMUM X	:	-.384	-.250	-.068	150 GR. SP. STRE PT.
MAXIMUM Y	:	.376	.366	.291	INDEX- 17613
MINIMUM Y	:	-.224	-.234	-.309	LOT- 02723
CENTROID X	:	-.037	-.171	-.088	SCOPE- LYMAN
CENTROID Y	:	-.047	-.037	.038	ALL AMERICAN- 20-X
POA TO CENTROID in.	:	.060	.175	.095	LEUPOLD BASE & RINGS
MIN RADIUS	:	.157	.093	.070	RANGE- 100 YDS.
MEAN RADIUS	:	.347	.269	.225	REST- SAND BAG.
MAX RADIUS	:	.538	.381	.312	
HORIZONTAL SPREAD	:	.920	.378	.113	
VERTICAL SPREAD	:	.600	.600	.600	
EXTREME SPREAD	:	.936	.690	.600	
NUMBER IN ONE INCH CIRCLE	=		4		
NUMBER IN TWO INCH CIRCLE	=		5		
NUMBER IN THREE INCH CIRCLE	=		5		

26 Sep 1998

FILE: PATTERNING/CENTERFIRE_PATT/C6563032

CENTERFIRE PATTERNS # 3

POA



OF SHOTS- 5

IN CIR

1in - 2

2in - 4

3in = 5

HS= 1.249

VS= 1.531

GS= 1.829

CENTROID *

PATTERN #	1	3	4	3
SHOTS (BEST OF)	5	4	3	
MAXIMUM X	.656	.758	.594	
MINIMUM X	-.593	-.491	-.476	
MAXIMUM Y	.544	.297	.139	
MINIMUM Y	-.987	-.176	-.077	
CENTROID X	-.136	-.237	-.074	
CENTROID Y	.148	.395	.296	
POA TO CENTROID in.	.201	.461	.305	
MIN RADIUS	.292	.061	.182	
MEAN RADIUS	.650	.441	.420	
MAX RADIUS	1.068	.778	.599	
HORIZONTAL SPREAD	1.249	1.249	1.070	
VERTICAL SPREAD	1.531	.473	.216	
EXTREME SPREAD	1.829	1.336	1.070	
NUMBER IN ONE INCH CIRCLE	=	2		
NUMBER IN TWO INCH CIRCLE	=	4		
NUMBER IN THREE INCH CIRCLE	=	5		

26-Sep 1998

FILE:/PATTERNING/CENTERFIRE-PATT/C6563032

CENTERFIRE PATTERNS # 2

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS- 5

IN CIR

1in = 3

2in = 5

3in = 5

HS= 1.556

VS= 1.026

GS= 1.608

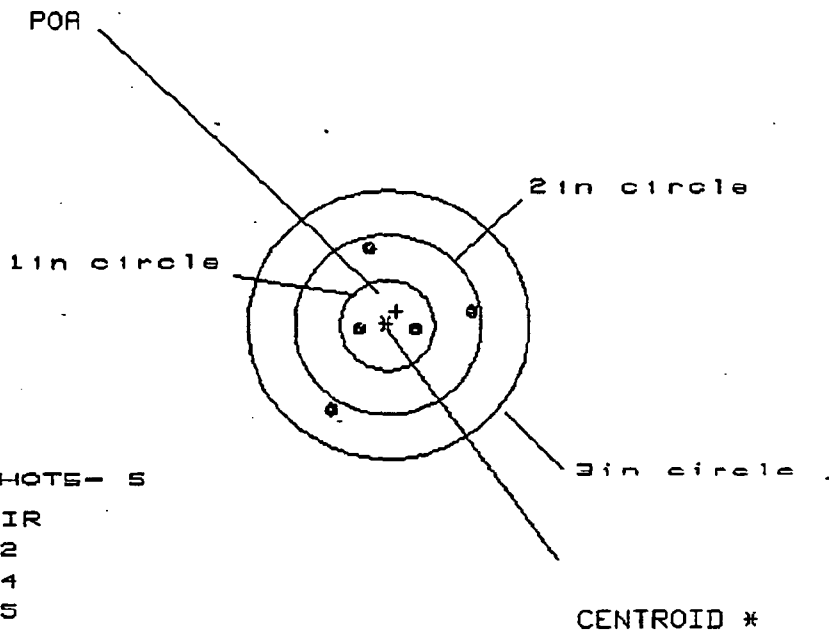
PATTERN #	:	2		
SHOTS (BEST OF)	:	5	4	3
MAXIMUM X	:	.739	.535	.074
MINIMUM X	:	-.817	-.233	-.055
MAXIMUM Y	:	.545	.277	.220
MINIMUM Y	:	-.481	-.344	-.252
CENTROID X	:	.151	.355	.177
CENTROID Y	:	-.215	-.352	-.444
POA TO CENTROID in.	:	.263	.500	.478
MIN RADIUS	:	.101	.165	.063
MEAN RADIUS	:	.503	.351	.183
MAX RADIUS	:	.982	.602	.253
HORIZONTAL SPREAD	:	1.556	.768	.129
VERTICAL SPREAD	:	1.026	.621	.472
EXTREME SPREAD	:	1.608	.961	.481
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		5	

SU # 6562918

26 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/6562918

CENTERFIRE PATTERNS # 1



OF SHOTS- 5
IN CIR
1 in - 2
2 in - 4
3 in = 5
HS- 1.486
VS= 1.814
GS= 1.871
AVG- 1.92

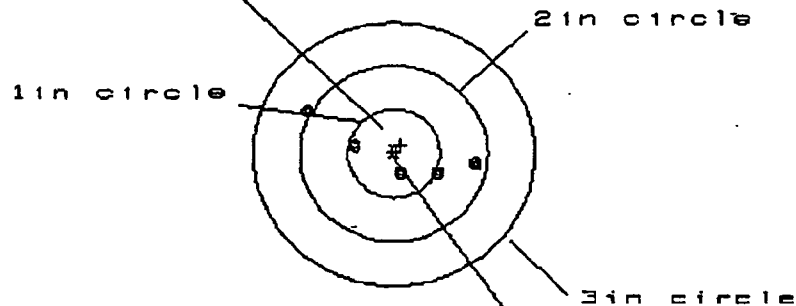
PATTERN #	:	1			
SHOTS (BEST OF)	:	5	4	3	M-760 7X64
MAXIMUM X	:	.866	.711	.605	AMMO: NORMA
MINIMUM X	:	-.620	-.492	-.598	150 GR. SP. SPIRE PT.
MAXIMUM Y	:	.877	.643	.128	INDEX 17013
MINIMUM Y	:	-.937	-.318	-.104	LOT - 02723
CENTROID X	:	-.098	.057	.163	SCOPE: LYMAN
CENTROID Y	:	-.155	.079	-.135	ALL AMERICAN- 20X
POA TO CENTROID in.	:	.183	.098	.212	LEUPOLD BASE & RINGS
MIN RADIUS	:	.267	.333	.104	RANGE - 100 YDS.
MEAN RADIUS	:	.700	.578	.440	REST: SAND BAG
MAX RADIUS	:	1.123	.717	.618	
HORIZONTAL SPREAD	:	1.486	1.203	1.203	
VERTICAL SPREAD	:	1.814	.961	.232	
EXTREME SPREAD	:	1.871	1.260	1.213	
NUMBER IN ONE INCH CIRCLE	=		2		
NUMBER IN TWO INCH CIRCLE	=		4		
NUMBER IN THREE INCH CIRCLE	=		5		

26 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6562918

CENTERFIRE PATTERNS # 2

POA



OF SHOTS- 5

IN CIR

1in = 3

2in = 4

3in = 5

HS= 1.781

VS= .739

GS= 1.903

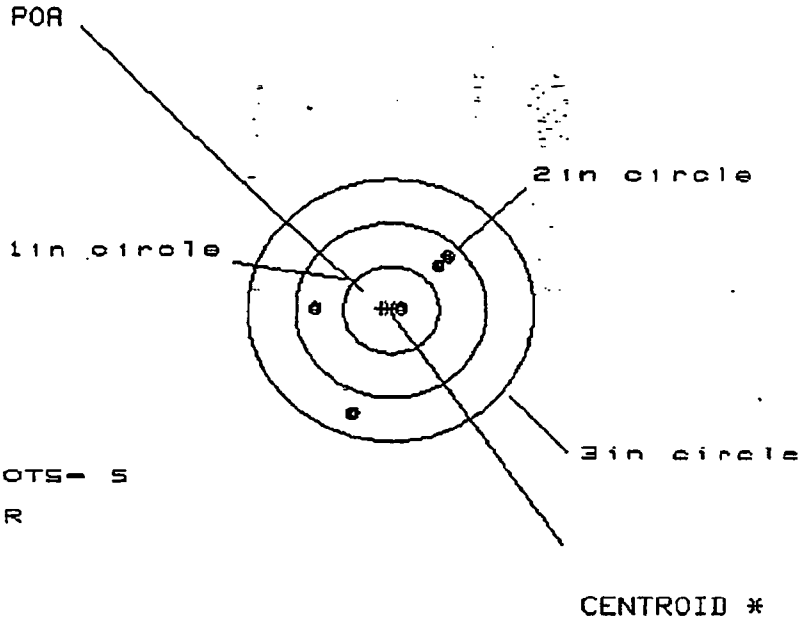
CENTROID #

PATTERN #	:	2		
SHOTS (BEST OF)	:	5	4	3
MAXIMUM X	:	.079	.654	.440
MINIMUM X	:	-.902	-.685	-.467
MAXIMUM Y	:	.509	.220	.209
MINIMUM Y	:	-.230	-.103	-.114
CENTROID X	:	-.072	.153	-.065
CENTROID Y	:	-.084	-.211	-.200
POA TO CENTROID in.	:	.111	.261	.210
MIN RADIUS	:	.233	.217	.117
MEAN RADIUS	:	.625	.457	.360
MAX RADIUS	:	1.035	.720	.511
HORIZONTAL SPREAD	:	1.781	1.339	.907
VERTICAL SPREAD	:	.739	.323	.323
EXTREME SPREAD	:	1.903	1.363	.956
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		5	

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FILE:/PATTERNING/CENTERFIRE_PATT/C8562918

CENTERFIRE PATTERNS # 3



OF SHOTS= 5

IN CIR

1in = 1

2in = 4

3in = 5

HS= 1.371

VS= 1.729

GS= 1.982

PATTERN #	:	3		
SHOTS (BEST OF)	:	5	4	3
MAXIMUM X	:	.605	.514	.547
MINIMUM X	:	-.766	-.857	-.686
MAXIMUM Y	:	.594	.310	.369
MINIMUM Y	:	-1.135	-.295	-.192
CENTROID X	:	.101	.192	.021
CENTROID Y	:	-.010	.266	.163
POA TO CENTROID in.	:	.103	.328	.164
MIN RADIUS	:	.059	.297	.237
MEAN RADIUS	:	.717	.565	.535
MAX RADIUS	:	1.192	.902	.708
HORIZONTAL SPREAD	:	1.371	1.371	1.233
VERTICAL SPREAD	:	1.729	.605	.561
EXTREME SPREAD	:	1.982	1.493	1.348
NUMBER IN ONE INCH CIRCLE	=	1		
NUMBER IN TWO INCH CIRCLE	=	4		
NUMBER IN THREE INCH CIRCLE	=	5		

SN. # 6563108

26 Sep 1998

FILE: /PATTERNING/CENTERFIRE_PATT/C6563108

CENTERFIRE PATTERNS

1

POA

1in circle

2in circle

3in circle

OF SHOTS - 5

IN CIR

1in = 0

2in = 3

3in = 5

HS = 2.165

VS = .903

GS = 2.260

Avg - 2.34

CENTROID #

PATTERN #

1

SHOTS (BEST OF)

5

4

3

MAXIMUM X

1.158

1.085

.845

MINIMUM X

-1.007

-.718

-.513

MAXIMUM Y

.414

.292

.305

MINIMUM Y

-.489

-.196

-.183

CENTROID X

.045

-.244

-.005

CENTROID Y

-.082

.040

.027

POA TO CENTROID in.

.094

.248

.028

MIN RADIUS

.563

.305

.451

MEAN RADIUS

.840

.608

.614

MAX RADIUS

1.257

1.102

.865

HORIZONTAL SPREAD

2.165

1.802

1.358

VERTICAL SPREAD

.903

.488

.488

EXTREME SPREAD

2.260

1.817

1.359

NUMBER IN ONE INCH CIRCLE =

0

NUMBER IN TWO INCH CIRCLE =

3

NUMBER IN THREE INCH CIRCLE =

5

m 700 - 7X64.

Ammo: NORMA

156 GR. SP. SPIRE PT.

INDEX - 17613

LOT - 02723

SCOPE - LYMAN

ALL AMERICAN - 20X

LEUPOLD BASE & RINGS.

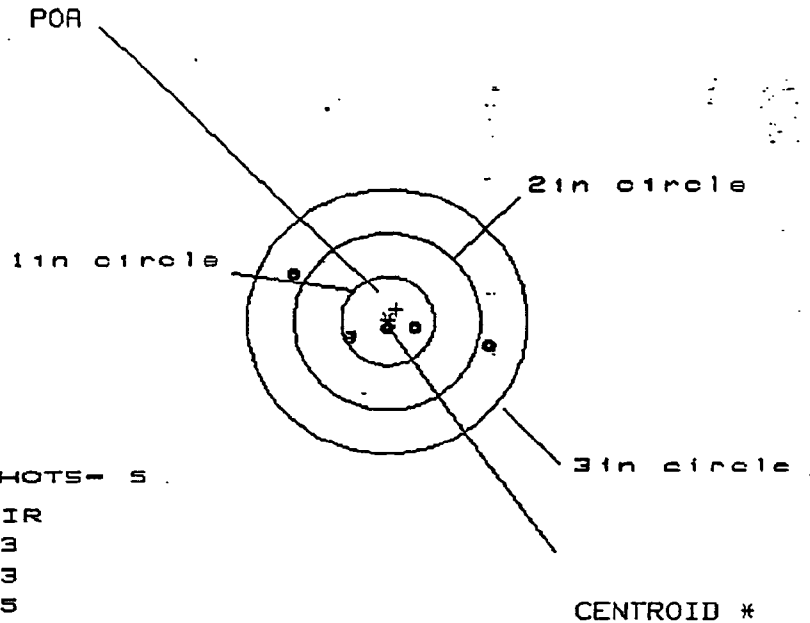
RANGE - 100 YDS

REST - SAND BAG

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FILE:/PATTERNING/CENTERFIRE_PATT/C6563100

CENTERFIRE PATTERNS # 2



OF SHOTS- 5

IN CIR

1in = 3

2in = 2

3in = 0

HS= 2.019

VS= .853

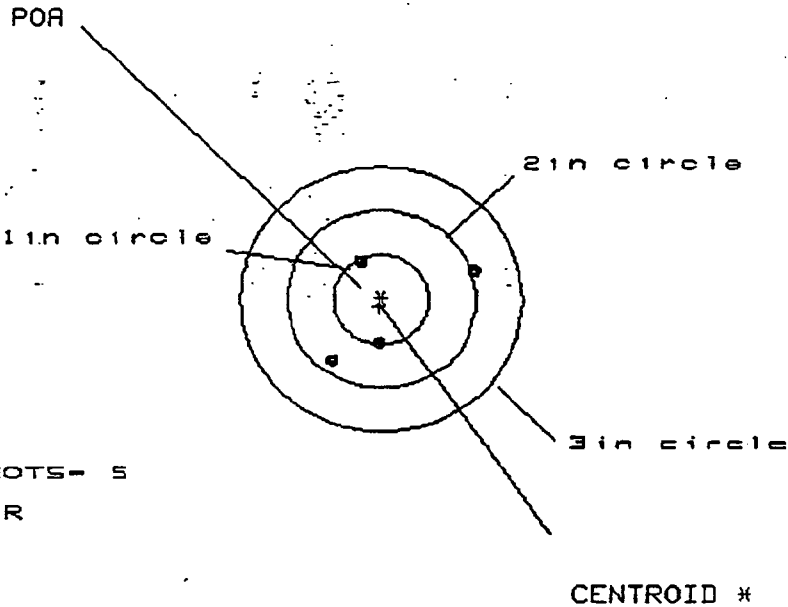
GS= 2.192

PATTERN #	:	2		
SHOTS (BEST OF)	:	5	4	3
MAXIMUM X	:	1.046	.802	.353
MINIMUM X	:	-.973	-.643	-.375
MAXIMUM Y	:	.568	.101	.054
MINIMUM Y	:	-.285	-.143	-.058
CENTROID X	:	-.091	.153	-.115
CENTROID Y	:	-.133	-.275	-.228
POA TO CENTROID in.	:	.161	.315	.255
MIN RADIUS	:	.090	.132	.023
MEAN RADIUS	:	.612	.460	.253
MAX RADIUS	:	1.127	.815	.380
HORIZONTAL SPREAD	:	2.019	1.445	.728
VERTICAL SPREAD	:	.853	.244	.112
EXTREME SPREAD	:	2.192	1.451	.737
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		5	

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FILE:/PATTERNING/CENTERFIRE_PATT/C6563108

CENTERFIRE PATTERNS # 3



OF SHOTS- 5

IN CIR

1in = 3

2in = 4

3in = 5

HS= 1.567

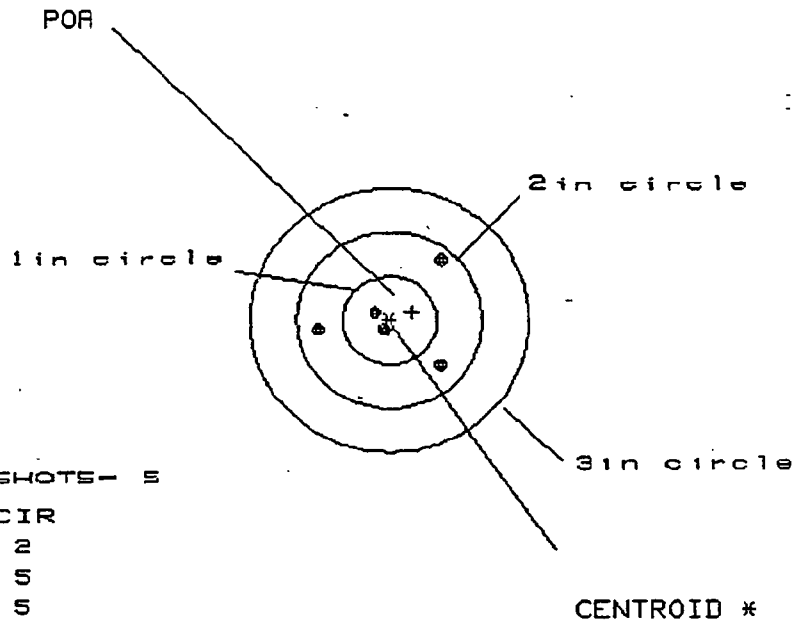
VS= 1.080

GS= 1.853

PATTERN #	:	3		
SHOTS (BEST OF)	:	5	4	3
MAXIMUM X	:	1.021	.201	.104
MINIMUM X	:	-.546	-.290	-.058
MAXIMUM Y	:	.410	.489	.293
MINIMUM Y	:	-.670	-.591	-.556
CENTROID X	:	.023	-.233	-.136
CENTROID Y	:	.076	-.003	.193
POA TO CENTROID in.	:	.079	.233	.236
MIN RADIUS	:	.432	.412	.268
MEAN RADIUS	:	.655	.506	.377
MAX RADIUS	:	1.070	.658	.566
HORIZONTAL SPREAD	:	1.567	.491	.162
VERTICAL SPREAD	:	1.080	1.080	.849
EXTREME SPREAD	:	1.853	1.129	.864
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		5	

SAL # C.656.3003

CENTERFIRE PATTERNS: # 1



OF SHOTS- 5

IN CIR

1 in = 2

2 in = 5

3 in = 5

HS- 1.315

VS- 1.150

GS- 1.514

AVG- 1.23

PATTERN #

1

SHOTS (BEST OF)

5

4

3

MAXIMUM X

.546

.658

.447

MINIMUM X

-.769

-.633

-.286

MAXIMUM Y

.662

.227

.253

MINIMUM Y

-.488

-.323

-.297

CENTROID X

-.235

-.371

-.160

CENTROID Y

-.094

-.259

-.285

POA TO CENTROID in.

.253

.453

.327

MIN RADIUS

.171

.053

.168

MEAN RADIUS

.548

.416

.362

MAX RADIUS

.858

.733

.537

HORIZONTAL SPREAD

1.315

1.291

.733

VERTICAL SPREAD

1.150

.550

.550

EXTREME SPREAD

1.514

1.352

.916

NUMBER IN ONE INCH CIRCLE =

2

NUMBER IN TWO INCH CIRCLE =

5

NUMBER IN THREE INCH CIRCLE =

5

m-700 7x64

AMMO: NORMA

156 GR. S.P. SPIRE PT.

INDEX - 17013

LOT - 02723

SCOPE - LYMAN

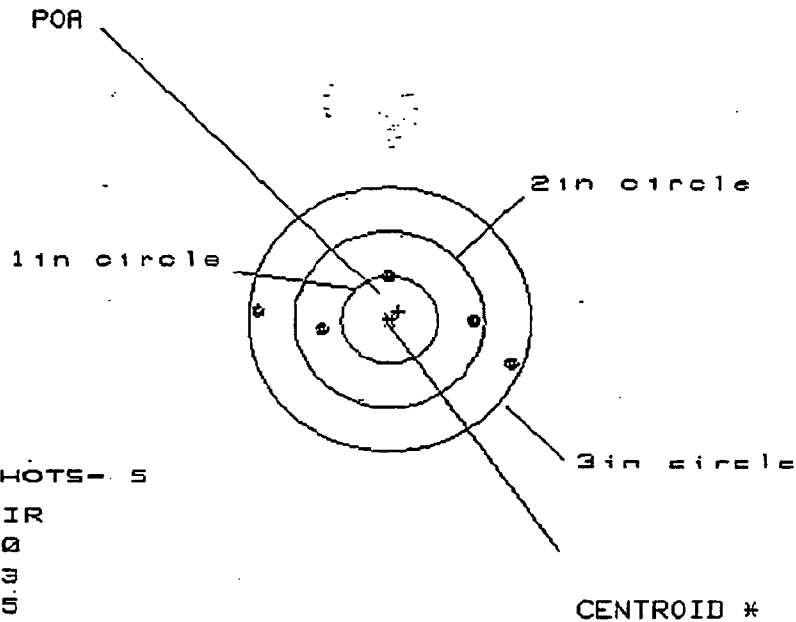
ALL AMERICAN - 20X

LEUPOLD RINGS & BASES

RANGE - 100 YDS

REST - SAND BAG

CENTERFIRE PATTERNS # 2



OF SHOTS- 5

IN CIR

1in = 0

2in = 3

3in = 5

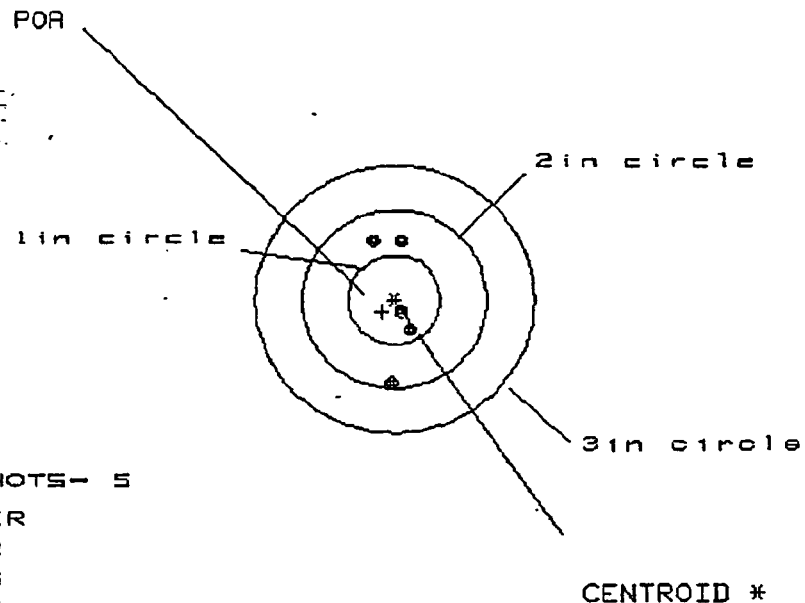
HS= 2.624

VS= .991

GS= 2.679

PATTERN #	:	2		
SHOTS (BEST OF)	:	5	4	3
MAXIMUM X	:	1.253	.910	.837
MINIMUM X	:	-1.371	-1.056	-.752
MAXIMUM Y	:	.514	.529	.376
MINIMUM Y	:	-.477	-.461	-.226
CENTROID X	:	-.093	.249	-.054
CENTROID Y	:	-.106	-.121	.032
POR TO CENTROID in.	:	.141	.278	.063
MIN RADIUS	:	.516	.534	.385
MEAN RADIUS	:	.965	.817	.674
MAX RADIUS	:	1.372	1.058	.850
HORIZONTAL SPREAD	:	2.624	1.966	1.589
VERTICAL SPREAD	:	.991	.991	.602
EXTREME SPREAD	:	2.679	2.004	1.591
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		5	

CENTERFIRE PATTERNS # 3



OF SHOTS- 5

IN CIR

1in = 2

2in = 5

3in = 5

HS= .414

VS= 1.599

GS= 1.601

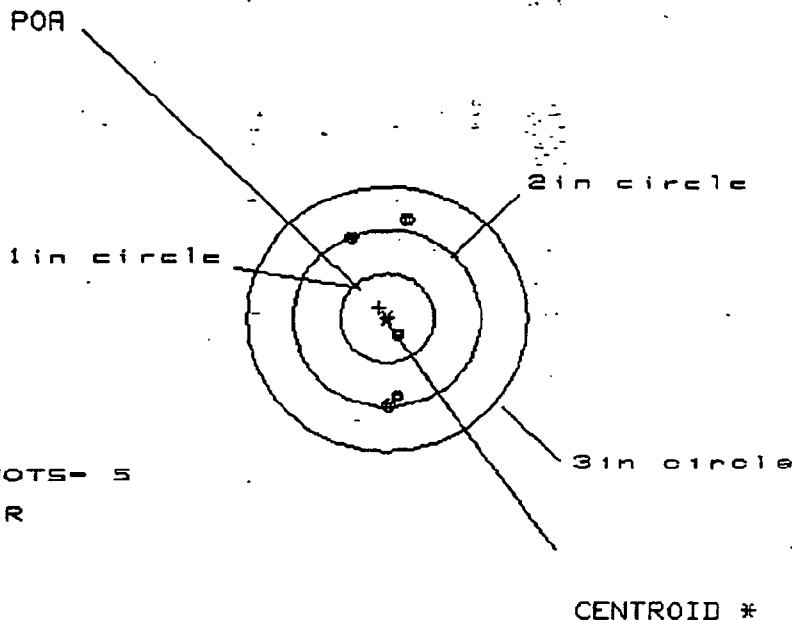
PATTERN #	:	3		
SHOTS (BEST OF)	:	5	4	3
MAXIMUM X	:	.176	.171	.090
MINIMUM X	:	-.238	-.243	-.063
MAXIMUM Y	:	.699	.474	.627
MINIMUM Y	:	-.900	-.595	-.442
CENTROID X	:	.135	.140	.221
CENTROID Y	:	.132	.357	.204
POA TO CENTROID in.	:	.189	.384	.301
MIN RADIUS	:	.129	.344	.188
MEAN RADIUS	:	.573	.489	.423
MAX RADIUS	:	.900	.619	.631
HORIZONTAL SPREAD	:	.414	.414	.153
VERTICAL SPREAD	:	1.599	1.069	1.069
EXTREME SPREAD	:	1.601	1.134	1.080
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		5	

SN # C6562914

26 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6562914.1

CENTERFIRE PATTERNS # 1



OF SHOTS- 5

IN CIR

1 in = 1

2 in = 3

3 in = 5

HE = .587

VS = 2.098

GS = 2.108

AVG- 1.74

PATTERN #

1

SHOTS (BEST OF)

5

4

3

MAXIMUM X

.185

.168

.050

MINIMUM X

-.402

-.356

-.091

MAXIMUM Y

1.104

1.244

.493

MINIMUM Y

-.994

-.718

-.304

CENTROID X

.090

.044

.162

CENTROID Y

-.119

-.395

-.809

POA TO CENTROID in.

.149

.397

.825

MIN RADIUS

.232

.186

.194

MEAN RADIUS

.856

.706

.336

MAX RADIUS

1.119

1.294

.496

HORIZONTAL SPREAD

.587

.524

.141

VERTICAL SPREAD

2.098

1.962

.797

EXTREME SPREAD

2.108

1.999

.809

NUMBER IN ONE INCH CIRCLE =

1

3

NUMBER IN TWO INCH CIRCLE =

3

5

NUMBER IN THREE INCH CIRCLE =

5

M-700

7X64

Ammo

NORMA

156CR. SR SPIRE PT.

INDEX- 17013

LOT - 02723

SCOPE- LYMAN

ALL AMERICAN. 20X

LEUPOLD RINGS & BASES

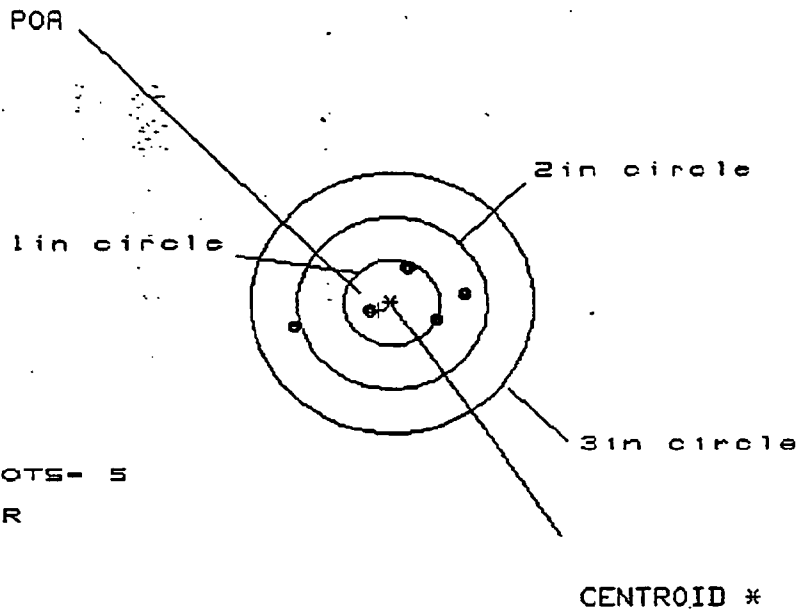
RANGE- 100 YDS

REST- SAND BAG

26 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6562914.1

CENTERFIRE PATTERNS # 2



OF SHOTS- 5

IN CIR

1in - 3

2in - 4

3in - 5

HS- 1.742

VS- .774

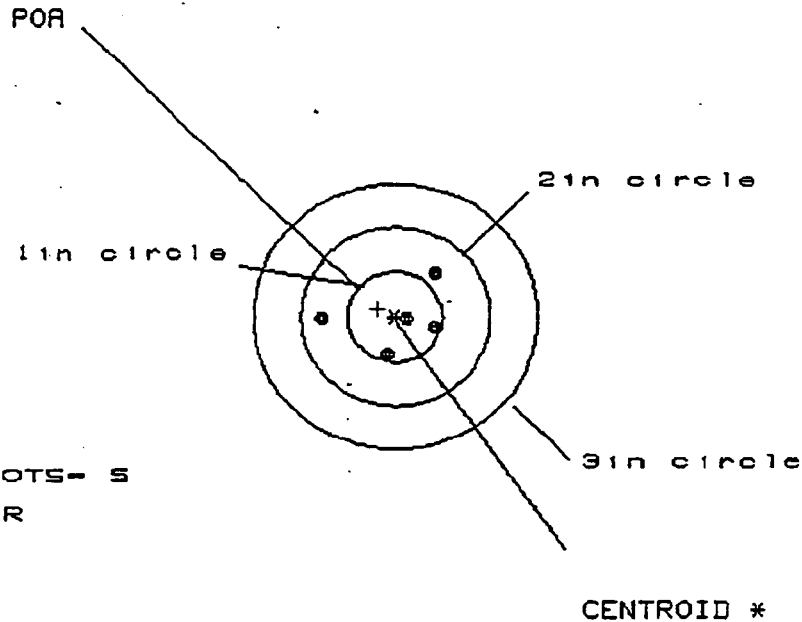
GS- 1.795

PATTERN #	:	2		
SHOTS (BEST OF)	:	5	4	3
MAXIMUM X	:	.720	.465	.335
MINIMUM X	:	-1.022	-.525	-.370
MAXIMUM Y	:	.456	.376	.388
MINIMUM Y	:	-.318	-.277	-.265
CENTROID X	:	.139	.394	.239
CENTROID Y	:	.081	.161	.149
POA TO CENTROID in.	:	.161	.426	.281
MIN RADIUS	:	.275	.330	.390
MEAN RADIUS	:	.606	.433	.402
MAX RADIUS	:	1.070	.542	.427
HORIZONTAL SPREAD	:	1.742	.990	.705
VERTICAL SPREAD	:	.774	.653	.653
EXTREME SPREAD	:	1.795	1.005	.719
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		5	

26 Sep 1998

FILE:/PATTERNING/CENTERFIRE PATT/C6562914.1

CENTERFIRE PATTERNS # 3



OF SHOTS- 5

IN CIR

1in = 2

2in = 5

3in = 5

HS= 1.253

VS= .859

GS= 1.334

PATTERN #	:	3		
SHOTS (BEST OF)	:	5	4	3
MAXIMUM X	:	.425	.218	.247
MINIMUM X	:	-.828	-.341	-.268
MAXIMUM Y	:	.488	.496	.145
MINIMUM Y	:	-.371	-.363	-.198
CENTROID X	:	.186	.393	.320
CENTROID Y	:	-.090	-.098	-.263
POA TO CENTROID in.	:	.207	.405	.414
MIN RADIUS	:	.158	.056	.147
MEAN RADIUS	:	.485	.326	.244
MAX RADIUS	:	.828	.542	.333
HORIZONTAL SPREAD	:	1.253	.559	.515
VERTICAL SPREAD	:	.859	.859	.343
EXTREME SPREAD	:	1.334	1.025	.573
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		5	

SNI. #C6562997

26 Sep 1998

FILE: PATTERNING/CENTERFIRE_PATT/C6562997

CENTERFIRE PATTERNS

1

POA

1in circle

2in circle

3in circle

OF SHOTS - 5

IN CIR

1in - 2

2in - 4

3in - 5

HS - 1.156

VS - 1.667

GS - 2.029

AVG - 1.57

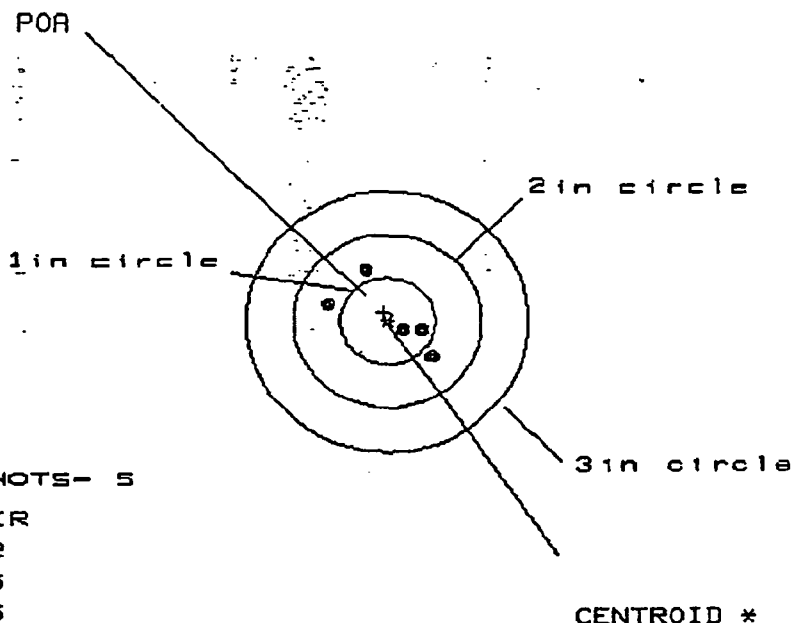
CENTROID *

PATTERN #	1	2	3	
SHOTS (BEST OF)	5	4	3	M-700. 7X64
MAXIMUM X	.466	.293	.320	AMMO: NORMA
MINIMUM X	-.690	-.616	-.518	150 GR. SA. SPIRE PT.
MAXIMUM Y	1.014	.515	.382	INDEX 17013
MINIMUM Y	-.653	-.399	-.455	LOT - 02723
CENTROID X	.282	.455	.357	SCOPE - LYMAN
CENTROID Y	-.272	-.526	-.393	ALL AMERICAN - 20X
POA TO CENTROID in.	.392	.695	.531	LEUPOLD RINGS & BASE
MIN RADIUS	.378	.304	.328	RANGE - 100 YDS.
MEAN RADIUS	.706	.505	.483	REST - SAND BAG.
MAX RADIUS	1.227	.695	.690	
HORIZONTAL SPREAD	1.156	.909	.838	
VERTICAL SPREAD	1.667	.914	.837	
EXTREME SPREAD	2.029	1.101	1.101	
NUMBER IN ONE INCH CIRCLE	=	2		
NUMBER IN TWO INCH CIRCLE	=	4		
NUMBER IN THREE INCH CIRCLE	=	5		

26 Sep 1990

FILE: /PATTERNING/CENTERFIRE_PATT/C6562997

CENTERFIRE PATTERNS # 2



OF SHOTS- 5

IN CIR

1in = 2

2in = 5

3in = 5

HS= 1.118

VS= .997

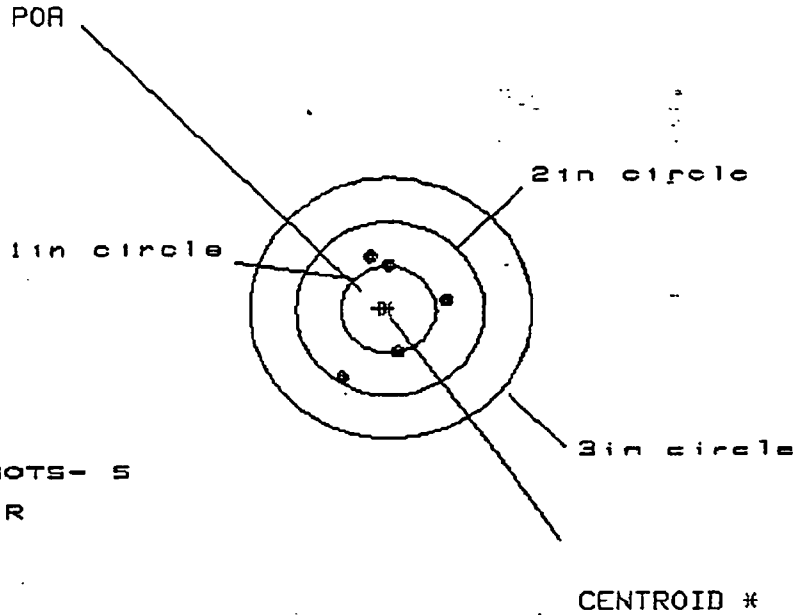
GS= 1.268

PATTERN #	:	2		
SHOTS (BEST OF)	:	5	4	3
MAXIMUM X	:	.465	.301	.280
MINIMUM X	:	-.653	-.435	-.335
MAXIMUM Y	:	.556	.596	.462
MINIMUM Y	:	-.441	-.402	-.245
CENTROID X	:	.037	.201	.100
CENTROID Y	:	-.096	-.136	-.002
POA TO CENTROID in.	:	.103	.242	.100
MIN RADIUS	:	.170	.094	.223
MEAN RADIUS	:	.495	.386	.389
MAX RADIUS	:	.672	.738	.570
HORIZONTAL SPREAD	:	1.118	.737	.615
VERTICAL SPREAD	:	.997	.997	.707
EXTREME SPREAD	:	1.268	1.240	.937
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		5	

26 Sep 1998

FILE:/PATTERNING/CENTERFIRE PATT/CG562997

CENTERFIRE PATTERNS # 3



OF SHOTS- 5

IN CIR

1in = 1

2in = 5

3in = 5

HS= 1.117

VS= 1.376

GS= 1.412

PATTERN #	:	3		
SHOTS (BEST OF)	:	5	4	3
MAXIMUM X	:	.614	.488	.384
MINIMUM X	:	-.503	-.314	-.209
MAXIMUM Y	:	.607	.414	.474
MINIMUM Y	:	-.769	-.644	-.506
CENTROID X	:	.097	.223	.327
CENTROID Y	:	-.014	.179	.041
POA TO CENTROID in.	:	.098	.286	.330
MIN RADIUS	:	.455	.352	.385
MEAN RADIUS	:	.632	.505	.479
MAX RADIUS	:	.919	.648	.535
HORIZONTAL SPREAD	:	1.117	.802	.593
VERTICAL SPREAD	:	1.376	1.058	.980
EXTREME SPREAD	:	1.412	1.086	.981
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		5	