

CENTROIDAL DISTANCES

$$^{54}_{26}\text{Fe} + \text{p} \rightarrow \text{---POA}$$

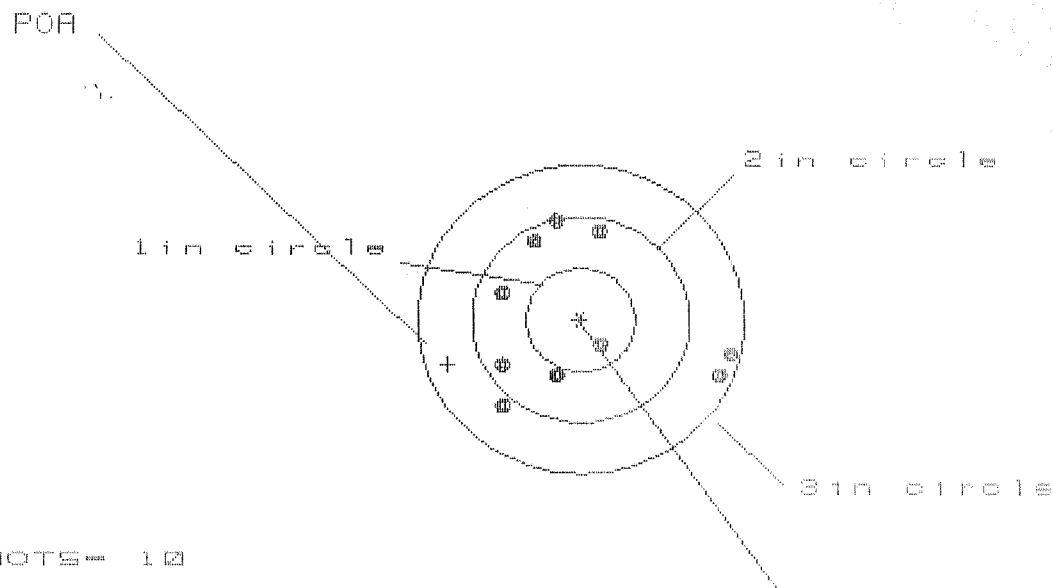
Initial Test

11/8/58

B May 1988

FILE:/PATTERNING/CENTERFIRE_PATT/CG225191

CENTERFIRE PATTERNS # 1



OF SHOTS= 10

IN CIR

1 in = 1

2 in = 7

3 in = 10

HS= 2.069

VS= 1.720

GS= 2.136

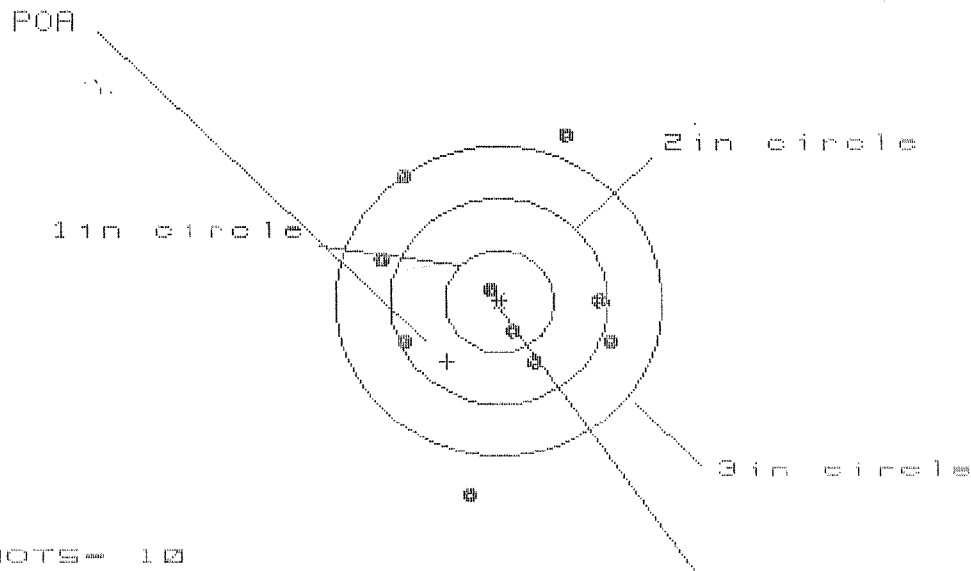
CENTROID #

PATTERN #	:	10	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.333	1.390	.514
MINIMUM X	:	-.735	-.587	-.414
MAXIMUM Y	:	.927	.893	.826
MINIMUM Y	:	-.793	-.827	-.894
CENTROID X	:	1.224	1.076	.903
CENTROID Y	:	.434	.468	.535
POA TO CENTROID in.	:	1.299	1.174	1.049
MIN RADIUS	:	.286	.420	.432
MEAN RADIUS	:	.898	.827	.725
MAX RADIUS	:	1.369	1.488	.984
HORIZONTAL SPREAD	:	2.069	1.977	.928
VERTICAL SPREAD	:	1.720	1.720	1.720
EXTREME SPREAD	:	2.136	2.104	1.921
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		10	

8 May 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225191

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1in = 2

2in = 5

3in = 7

HS= 2.148

VS= 3.478

GS= 3.603

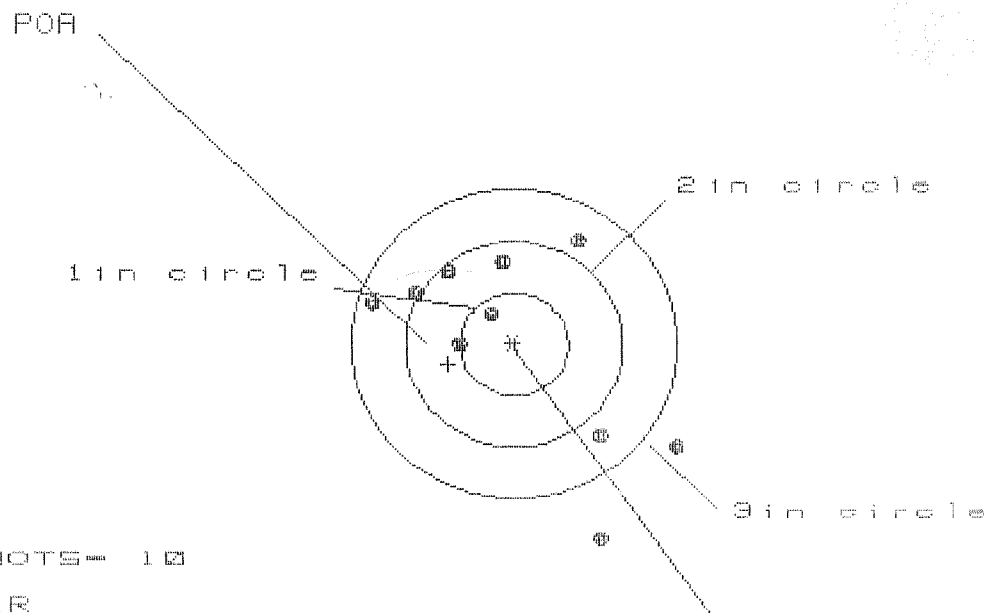
CENTROID #

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.055	1.022	1.099
MINIMUM X	:	-1.093	-1.126	-1.049
MAXIMUM Y	:	1.565	1.353	1.204
MINIMUM Y	:	-1.913	-1.756	-1.587
CENTROID X	:	.480	.513	.436
CENTROID Y	:	.585	.797	.628
POA TO CENTROID in.	:	.757	.948	.764
MIN RADIUS	:	.153	.093	.106
MEAN RADIUS	:	1.043	.953	.853
MAX RADIUS	:	1.935	1.486	1.440
HORIZONTAL SPREAD	:	2.148	2.148	2.148
VERTICAL SPREAD	:	3.478	2.109	1.791
EXTREME SPREAD	:	3.603	2.476	2.476
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		7	

8 May 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C8225191

CENTERFIRE PATTERNS # 3



OF SHOTS= 10

IN CIR

1in = 1

2in = 4

3in = 8

HS= 2.836

VS= 2.861

GS= 3.187

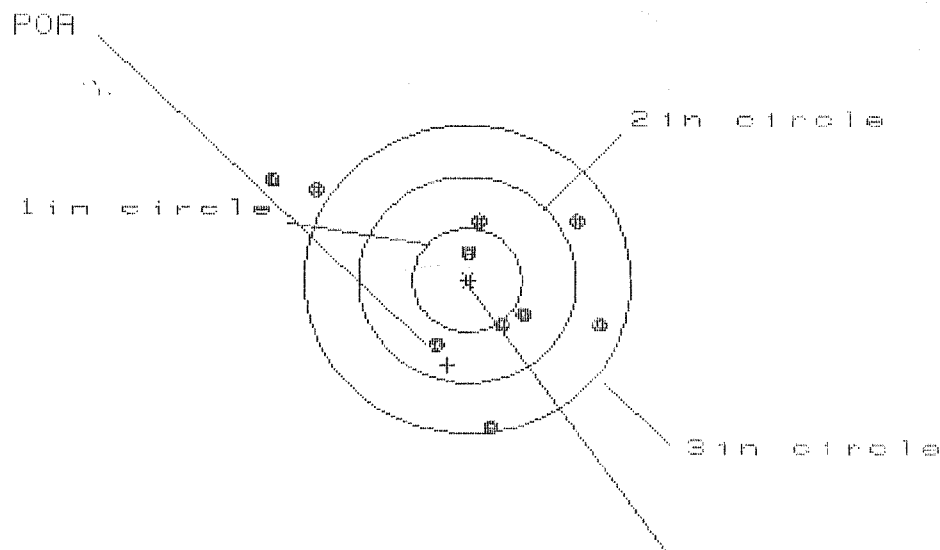
CENTROID *

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.542	1.632	1.051
MINIMUM X	:	-1.293	-1.204	-1.000
MAXIMUM Y	:	.991	.783	.628
MINIMUM Y	:	-1.870	-1.239	-1.208
CENTROID X	:	.606	.517	.313
CENTROID Y	:	.194	.402	.557
POA TO CENTROID in.	:	.637	.655	.639
MIN RADIUS	:	.437	.221	.040
MEAN RADIUS	:	1.128	.950	.715
MAX RADIUS	:	2.037	2.049	1.601
HORIZONTAL SPREAD	:	2.836	2.836	2.051
VERTICAL SPREAD	:	2.861	2.022	1.836
EXTREME SPREAD	:	3.187	3.187	2.411
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		8	

8 May 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225191

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1in = 2

2in = 5

3in = 8

HS= 2.980

VS= 2.402

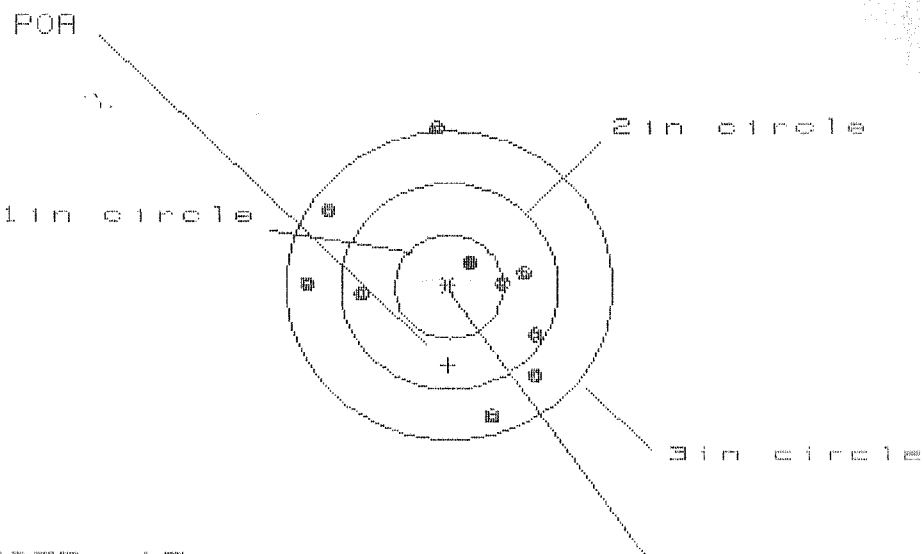
GS= 3.301

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.186	.986	.789
MINIMUM X	:	-1.794	-1.581	-.719
MAXIMUM Y	:	1.018	.963	.790
MINIMUM Y	:	-1.384	-1.271	-1.151
CENTROID X	:	.190	.390	.587
CENTROID Y	:	.825	.712	.591
POA TO CENTROID in.	:	.847	.812	.834
MIN RADIUS	:	.252	.309	.201
MEAN RADIUS	:	1.025	.866	.708
MAX RADIUS	:	2.063	1.851	1.162
HORIZONTAL SPREAD	:	2.980	2.567	1.508
VERTICAL SPREAD	:	2.402	2.234	1.941
EXTREME SPREAD	:	3.301	2.856	2.105
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		8	

8 May 1988

FILE:/PATTERNING/CENTERFIRE_PATT/CG225191

CENTERFIRE PATTERNS # 5



OF SHOTS = 10

IN CIR

1in = 2

2in = 5

3in = 9

HS = 2.050

VS = 2.820

GS = 2.866

PATTERN #	5
SHOTS (BEST OF)	10
MAXIMUM X	.759
MINIMUM X	-1.291
MAXIMUM Y	1.517
MINIMUM Y	-1.303
CENTROID X	.011
CENTROID Y	.765
POA TO CENTROID in.	.765
MIN RADIUS	.303
MEAN RADIUS	.979
MAX RADIUS	1.522
HORIZONTAL SPREAD	2.050
VERTICAL SPREAD	2.820
EXTREME SPREAD	2.866
NUMBER IN ONE INCH CIRCLE	2
NUMBER IN TWO INCH CIRCLE	5
NUMBER IN THREE INCH CIRCLE	9

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6225191 E2

CENTROIDAL DISTANCES

0 TO	1	1.42239
1 TO	2	1.03706
1 TO	3	.875552
1 TO	4	.854618
1 TO	5	.650406

1
2 5 2
+ <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .5198
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .7398
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .984155

THE AMR FOR THIS RIFLE IS: .9982

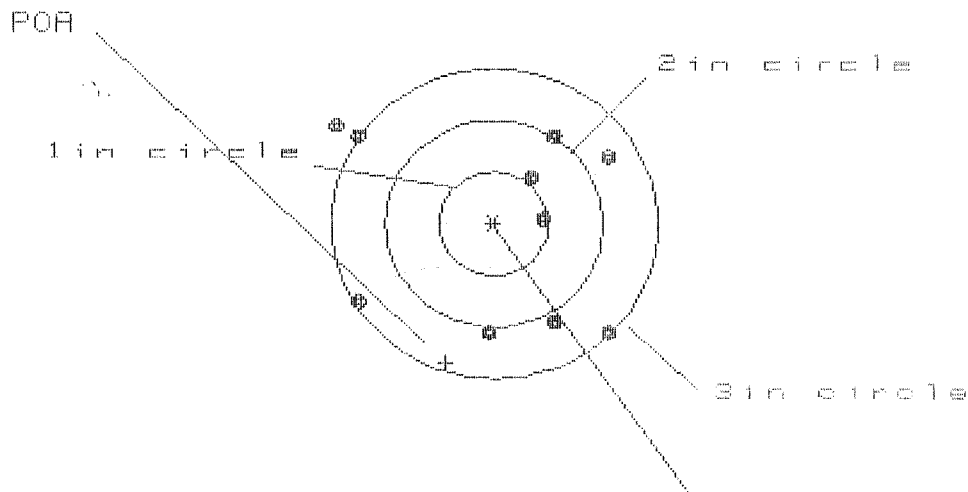
AVG POI CHANGE FROM
0 ROUND LEVEL TO 500 ROUND LEVEL $\approx$.625 inches

11/14/88

14 Nov 1988

FILE:/PATTERNING/CENTERFIRE_PATT/CG225191E2

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

CENTROID *

IN CIR

1in = 1

2in = 2

3in = 8

HS= 2.510

VS= 2.011

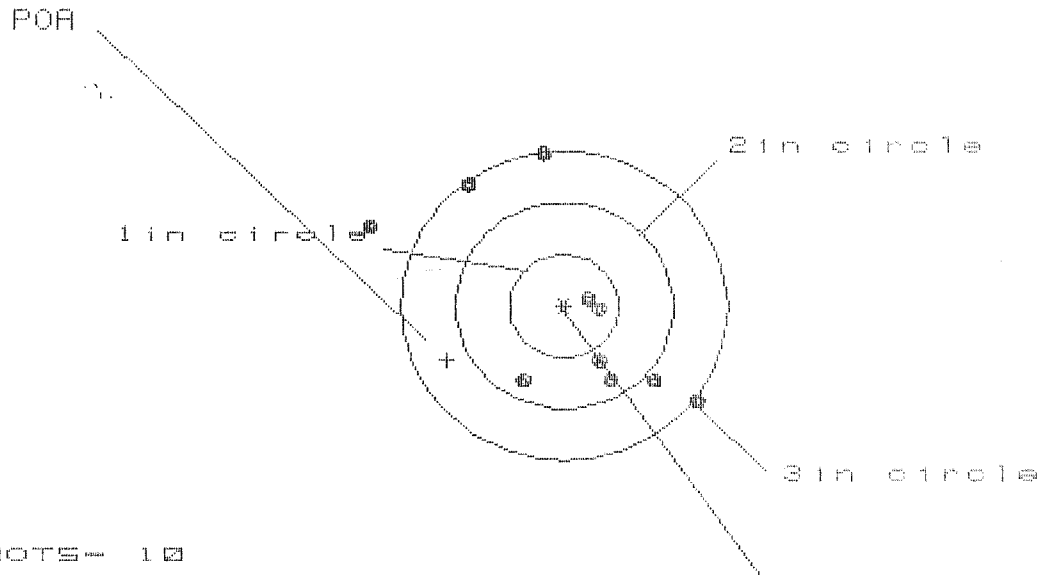
GS= 3.216

PATTERN #	:	10	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.091	.934	.978
MINIMUM X	:	-1.419	-1.430	-1.314
MAXIMUM Y	:	.958	.999	.881
MINIMUM Y	:	-1.053	-.946	-1.061
CENTROID X	:	.448	.605	.489
CENTROID Y	:	1.350	1.243	1.361
POA TO CENTROID in.	:	1.422	1.383	1.446
MIN RADIUS	:	.415	.292	.373
MEAN RADIUS	:	1.162	1.068	1.040
MAX RADIUS	:	1.712	1.684	1.521
HORIZONTAL SPREAD	:	2.510	2.364	2.292
VERTICAL SPREAD	:	2.011	1.945	1.942
EXTREME SPREAD	:	3.216	3.000	2.656
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		2	
NUMBER IN THREE INCH CIRCLE	=		8	

14 May 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225191E2

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1in = 2

2in = 5

3in = 8

HS= 2.903

VS= 2.459

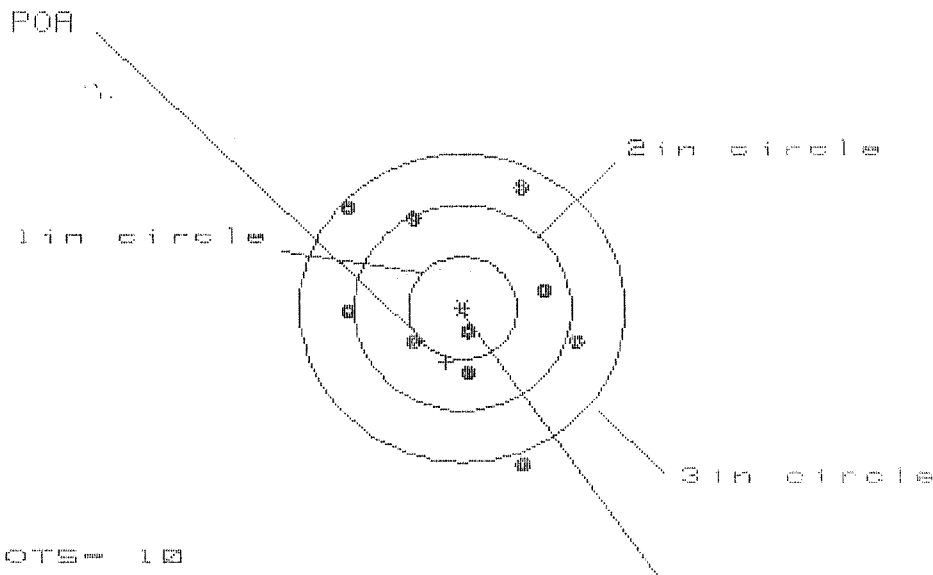
GS= 3.368

PATTERN #	10	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.172	.979	.932
MINIMUM X	-1.731	-1.073	-1.120
MAXIMUM Y	1.522	1.608	1.489
MINIMUM Y	-.937	-.851	-.650
CENTROID X	1.079	1.272	1.319
CENTROID Y	.527	.441	.240
POA TO CENTROID in.	1.201	1.346	1.341
MIN RADIUS	.280	.133	.223
MEAN RADIUS	1.030	.869	.734
MAX RADIUS	1.896	1.676	1.864
HORIZONTAL SPREAD	2.903	2.052	2.052
VERTICAL SPREAD	2.459	2.459	2.139
EXTREME SPREAD	3.368	2.964	2.964
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	8		

14 May 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225191E2

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 9

HS= 2.119

VS= 2.709

GS= 2.963

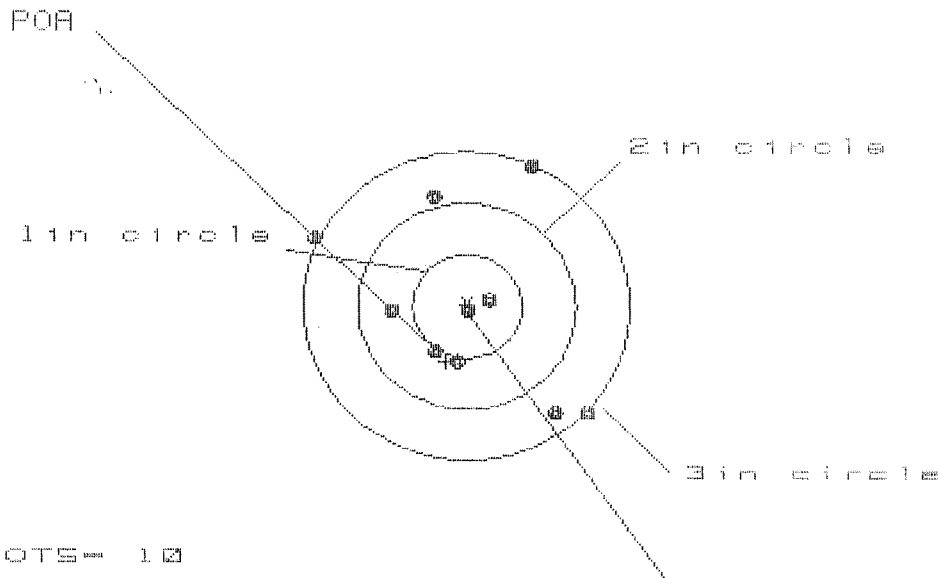
CENTROID *

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.039	1.101	.982
MINIMUM X	:	-1.080	-1.018	-1.138
MAXIMUM Y	:	1.135	.960	1.055
MINIMUM Y	:	-1.574	-.819	-.724
CENTROID X	:	.152	.090	.210
CENTROID Y	:	.526	.701	.606
POA TO CENTROID in.	:	.548	.707	.642
MIN RADIUS	:	.205	.390	.270
MEAN RADIUS	:	.960	.893	.827
MAX RADIUS	:	1.671	1.220	1.173
HORIZONTAL SPREAD	:	2.119	2.119	2.119
VERTICAL SPREAD	:	2.709	1.779	1.779
EXTREME SPREAD	:	2.963	2.413	2.141
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		9	

14 May 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C8225191E2

CENTERFIRE PATTERNS # 4



OF SHOTS= 10

IN CIR

1in = 2

2in = 5

3in = 7

HS= 2.577

VS= 2.435

GS= 3.078

CENTROID #

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.149	.991	.818
MINIMUM X	:	-1.427	-.867	-.743
MAXIMUM Y	:	1.399	1.471	1.351
MINIMUM Y	:	-1.036	-.964	-1.085
CENTROID X	:	.194	.352	.228
CENTROID Y	:	.534	.462	.583
POA TO CENTROID in.	:	.568	.581	.626
MIN RADIUS	:	.096	.105	.129
MEAN RADIUS	:	.926	.847	.776
MAX RADIUS	:	1.568	1.524	1.448
HORIZONTAL SPREAD	:	2.577	1.858	1.561
VERTICAL SPREAD	:	2.435	2.435	2.435
EXTREME SPREAD	:	3.078	2.593	2.453
NUMBER IN ONE INCH CIRCLE =			2	
NUMBER IN TWO INCH CIRCLE =			5	
NUMBER IN THREE INCH CIRCLE =			7	

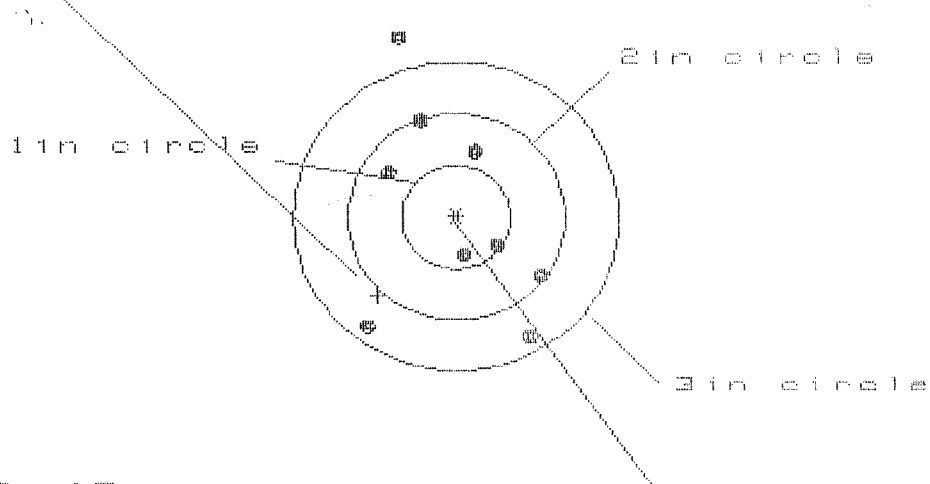
14 Nov 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225191E2

CENTERFIRE PATTERNS

5

POA



OF SHOTS- 10

IN CIR

1in = 3

2in = 5

3in = 2

HS= 1.619

VS= 2.833

GS= 3.064

CENTROID #

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.822	.764	.657
MINIMUM X	:	-.797	-.855	-.797
MAXIMUM Y	:	1.716	1.167	1.054
MINIMUM Y	:	-1.117	-.926	-1.039
CENTROID X	:	.726	.784	.891
CENTROID Y	:	.762	.571	.684
POA TO CENTROID in.	:	1.052	.970	1.123
MIN RADIUS	:	.377	.179	.304
MEAN RADIUS	:	.913	.768	.711
MAX RADIUS	:	1.793	1.244	1.151
HORIZONTAL SPREAD	:	1.619	1.619	1.454
VERTICAL SPREAD	:	2.833	2.093	2.093
EXTREME SPREAD	:	3.064	2.297	2.297
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6225191

CENTROIDAL DISTANCES

0 TO	1	.193631
1 TO	2	.460114
1 TO	3	.242217
1 TO	4	.722524
1 TO	5	.741631

S^2
312 <----POA

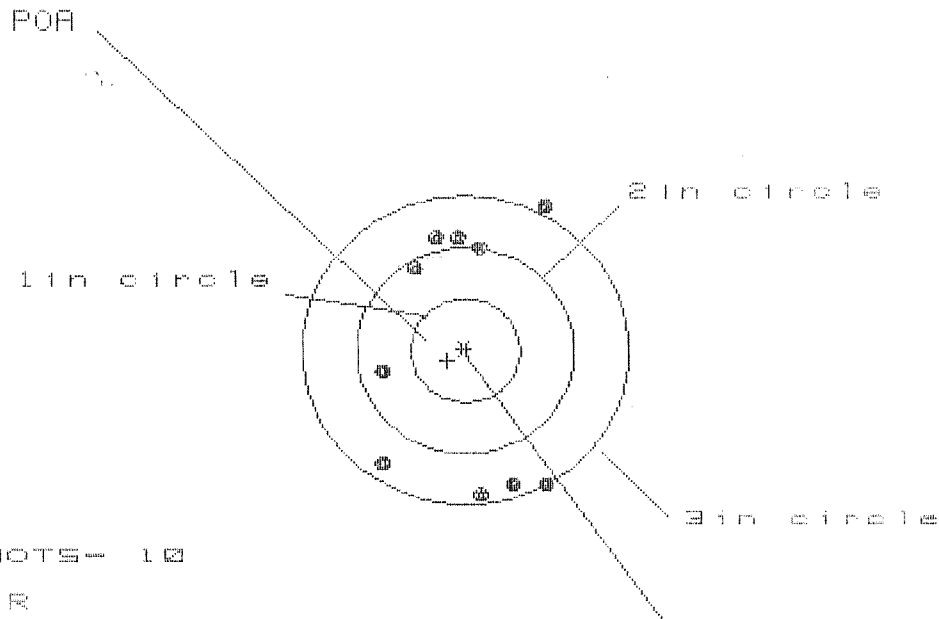
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0034
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .3006
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .300619
THE AMR FOR THIS RIFLE IS: 1.145

4500 Round Test Nov 30, 1988

30 Nov 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C8225191.1

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1in - 0

2in - 2

3in = 8

HS= 1.534

VS= 2.769

GS= 2.925

CENTROID *

PATTERN #	:			
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.779	.863	.607
MINIMUM X	:	-.755	-.671	-.563
MAXIMUM Y	:	1.356	1.234	1.091
MINIMUM Y	:	-1.413	-1.262	-1.405
CENTROID X	:	.167	.083	-.025
CENTROID Y	:	.098	-.053	.090
POA TO CENTROID in.	:	.193	.098	.094
MIN RADIUS	:	.751	.652	.562
MEAN RADIUS	:	1.208	1.163	1.098
MAX RADIUS	:	1.554	1.436	1.444
HORIZONTAL SPREAD	:	1.534	1.534	1.170
VERTICAL SPREAD	:	2.769	2.496	2.496
EXTREME SPREAD	:	2.925	2.584	2.523
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		2	
NUMBER IN THREE INCH CIRCLE	=		8	

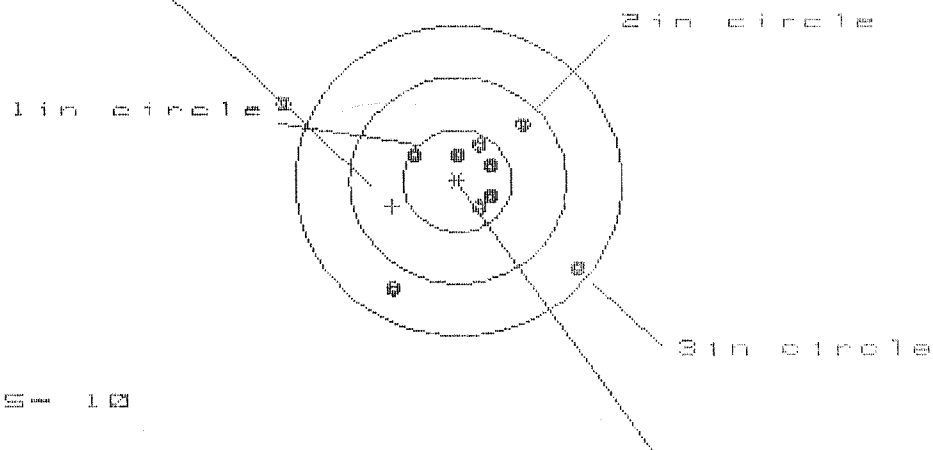
30 May 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225191.1

CENTERFIRE PATTERNS

2

POA



OF SHOTS- 10

IN CIR

1in = 6

2in = 7

3in = 9

HS= 2.619

VS= 1.759

GS= 3.032

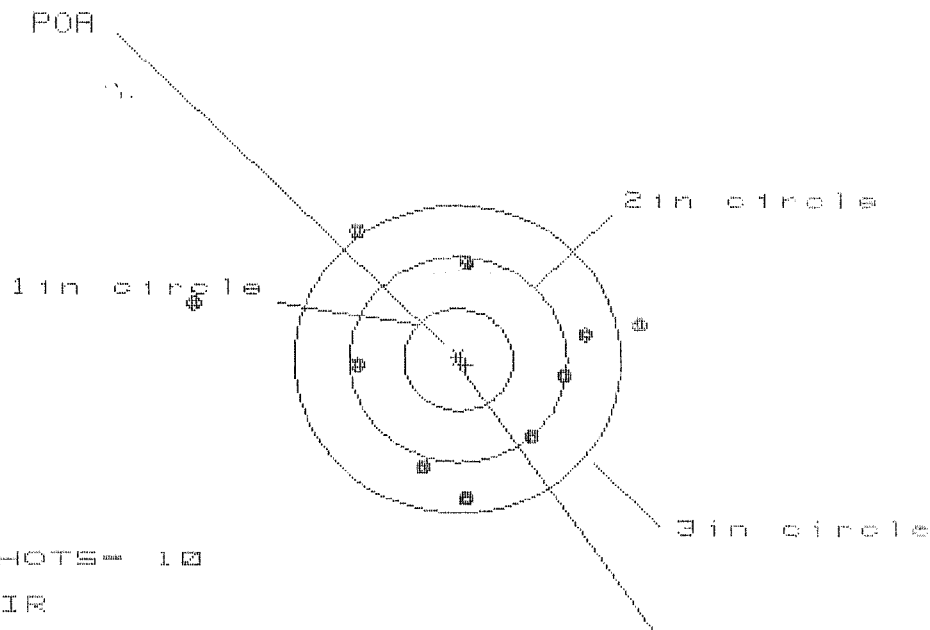
CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.048	.874	.516
MINIMUM X	-1.571	-.808	-.699
MAXIMUM Y	.712	.659	.567
MINIMUM Y	-1.047	-.968	-1.060
CENTROID X	.603	.777	.668
CENTROID Y	.245	.166	.258
POA TO CENTROID in.	.650	.794	.716
MIN RADIUS	.297	.152	.289
MEAN RADIUS	.731	.592	.518
MAX RADIUS	1.724	1.261	1.269
HORIZONTAL SPREAD	2.619	1.682	1.215
VERTICAL SPREAD	1.759	1.627	1.627
EXTREME SPREAD	3.032	2.031	2.031
NUMBER IN ONE INCH CIRCLE =	6		
NUMBER IN TWO INCH CIRCLE =	7		
NUMBER IN THREE INCH CIRCLE =	9		

30 Nov 1988

FILE:/PATTERNING/CENTERFIRE_PATT/CG225191.1

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 0

2in = 3

3in = 7

HS= 4.104

VS= 2.543

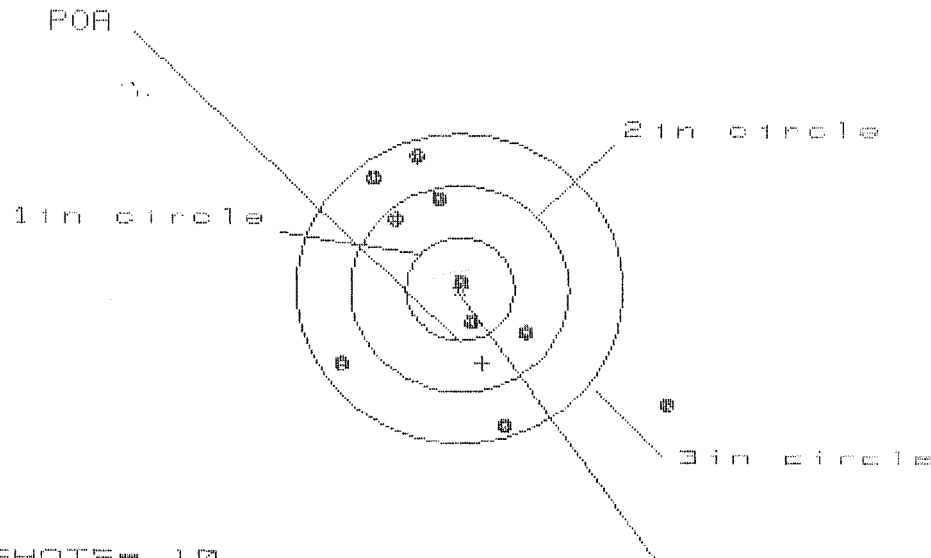
GS= 4.100

PATTERN #	3	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.665	1.394	1.081
MINIMUM X	-2.439	-1.183	-1.009
MAXIMUM Y	1.234	1.296	1.352
MINIMUM Y	-1.309	-1.247	-1.191
CENTROID X	-.070	.201	.027
CENTROID Y	.048	-.014	-.070
POA TO CENTROID in.	.085	.202	.075
MIN RADIUS	.914	.692	.859
MEAN RADIUS	1.326	1.151	1.112
MAX RADIUS	2.502	1.755	1.687
HORIZONTAL SPREAD	4.104	2.577	2.090
VERTICAL SPREAD	2.543	2.543	2.543
EXTREME SPREAD	4.100	2.730	2.730
NUMBER IN ONE INCH CIRCLE =	0		
NUMBER IN TWO INCH CIRCLE =	3		
NUMBER IN THREE INCH CIRCLE =	7		

30 Nov 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C8225191.1

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1in = 2

2in = 5

3in = 8

HS= 3.020

VS= 2.650

GS= 3.492

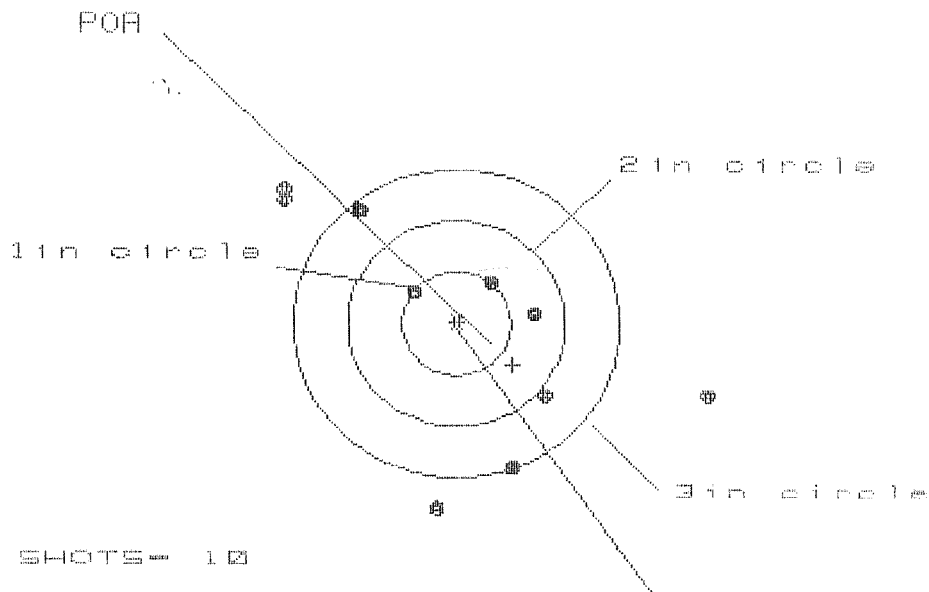
CENTROID #

PATTERN #	:	10	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.902	.813	.886
MINIMUM X	:	-1.118	-.906	-.833
MAXIMUM Y	:	1.291	1.162	.976
MINIMUM Y	:	-1.359	-1.488	-1.030
CENTROID X	:	-.204	-.416	-.489
CENTROID Y	:	.718	.847	1.033
POA TO CENTROID in.	:	.747	.944	1.143
MIN RADIUS	:	.038	.223	.392
MEAN RADIUS	:	1.056	.924	.823
MAX RADIUS	:	2.229	1.598	1.325
HORIZONTAL SPREAD	:	3.020	1.719	1.719
VERTICAL SPREAD	:	2.650	2.650	2.006
EXTREME SPREAD	:	3.492	2.757	2.134
NUMBER IN ONE INCH CIRCLE	=	2		
NUMBER IN TWO INCH CIRCLE	=	5		
NUMBER IN THREE INCH CIRCLE	=	9		

30 Nov 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225191.1

CENTERFIRE PATTERNS # 5



OF SHOTS= 10

IN CIR

1in = 0

2in = 3

3in = 6

HS= 3.0997

VS= 3.074

GS= 4.348

CENTROID +

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	2.302	1.104	.937
MINIMUM X	:	-1.595	-1.339	-1.457
MAXIMUM Y	:	1.275	1.202	1.328
MINIMUM Y	:	-1.799	-1.872	-1.721
CENTROID X	:	-.513	-.769	-.602
CENTROID Y	:	.394	.467	.316
POA TO CENTROID in.	:	.647	.900	.680
MIN RADIUS	:	.526	.322	.539
MEAN RADIUS	:	1.403	1.289	1.213
MAX RADIUS	:	2.393	1.872	1.971
HORIZONTAL SPREAD	:	3.897	2.443	2.394
VERTICAL SPREAD	:	3.074	3.074	3.049
EXTREME SPREAD	:	4.348	3.407	3.357
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		6	

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6225191

CENTROIDAL DISTANCES

0 TO	1	1.25263
1 TO	2	1.16789
1 TO	3	1.44148
1 TO	4	.763535
1 TO	5	1.44659

+ 5₂ <----POA
4
1

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .2906
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.5272
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .601987
THE AMR FOR THIS RIFLE IS: 1.012

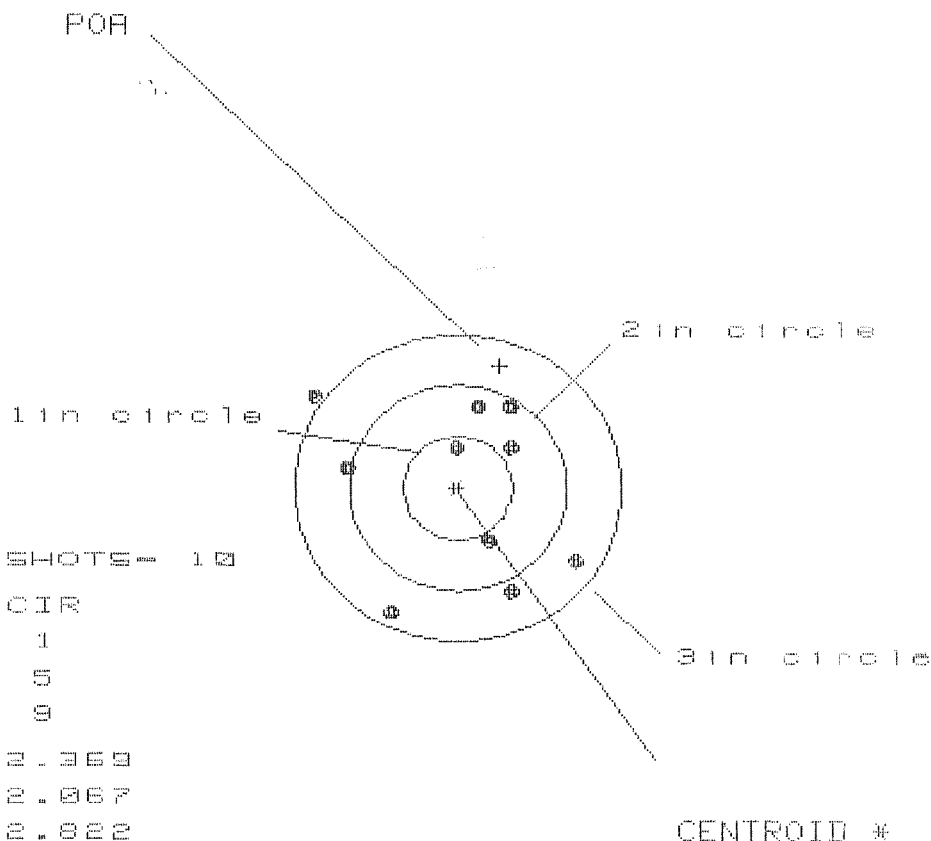
5000 Round Test

Dec 1, 1988

1 Dec 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225191.1.1

CENTERFIRE PATTERNS # 1



OF SHOTS= 10

IN CIR

1in = 1

2in = 5

3in = 9

HS= 2.369

VS= 2.067

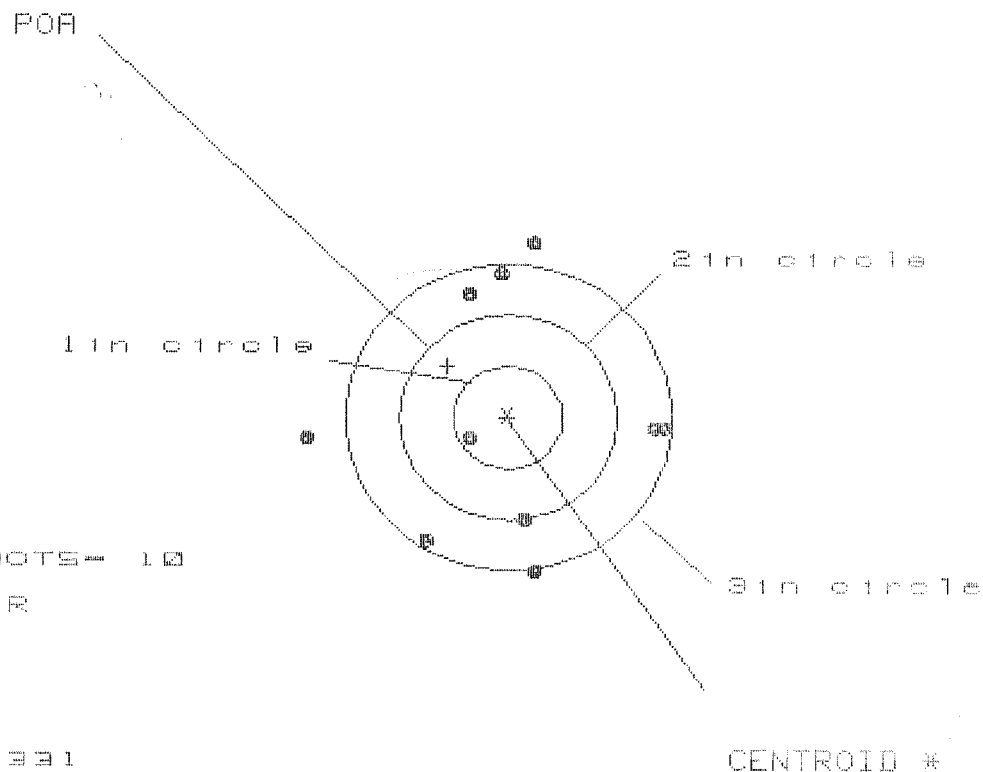
GS= 2.822

PATTERN #	:	10	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.049	.902	.805
MINIMUM X	:	-1.320	-1.203	-1.300
MAXIMUM Y	:	.850	.905	.764
MINIMUM Y	:	-1.217	-1.122	-1.061
CENTROID X	:	-.385	-.238	-.141
CENTROID Y	:	-1.192	-1.287	-1.146
POR TO CENTROID in.	:	1.253	1.308	1.155
MIN RADIUS	:	.387	.434	.408
MEAN RADIUS	:	.975	.893	.801
MAX RADIUS	:	1.570	1.367	1.310
HORIZONTAL SPREAD	:	2.369	2.105	2.105
VERTICAL SPREAD	:	2.067	2.027	1.825
EXTREME SPREAD	:	2.822	2.283	2.283
NUMBER IN ONE INCH CIRCLE	=	1		
NUMBER IN TWO INCH CIRCLE	=	5		
NUMBER IN THREE INCH CIRCLE	=	9		

1 Dec 1988

FILE:/PATTERNING/CENTERFIRE_PATT/06225151.1.1

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1 in = 1

2 in = 1

3 in = 7

HS= 3.331

VS= 3.242

GS= 3.333

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.431	1.220	1.227
MINIMUM X	:	-1.900	-.947	-.940
MAXIMUM Y	:	1.704	1.683	1.618
MINIMUM Y	:	-1.538	-1.559	-1.348
CENTROID X	:	.558	.769	.762
CENTROID Y	:	-.503	-.482	-.693
POA TO CENTROID in.	:	.751	.908	1.030
MIN RADIUS	:	.453	.654	.606
MEAN RADIUS	:	1.353	1.287	1.209
MAX RADIUS	:	1.909	1.684	1.640
HORIZONTAL SPREAD	:	3.331	2.167	2.167
VERTICAL SPREAD	:	3.242	3.242	2.966
EXTREME SPREAD	:	3.333	3.242	2.983
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		1	
NUMBER IN THREE INCH CIRCLE	=		7	

1 Dec 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225191.1.1

CENTERFIRE PATTERNS

3

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS- 10

IN CIR

1in = 4

2in = 5

3in = 7

HS= 1.243

VS= 3.794

GS= 3.862

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.498	.541	.478
MINIMUM X	:	-.745	-.702	-.635
MAXIMUM Y	:	1.916	1.332	1.124
MINIMUM Y	:	-1.878	-1.665	-1.770
CENTROID X	:	.610	.567	.500
CENTROID Y	:	-.149	-.362	-.154
POA TO CENTROID in.	:	.628	.673	.523
MIN RADIUS	:	.231	.315	.283
MEAN RADIUS	:	1.008	.907	.774
MAX RADIUS	:	1.955	1.751	1.880
HORIZONTAL SPREAD	:	1.243	1.243	1.113
VERTICAL SPREAD	:	3.794	2.997	2.894
EXTREME SPREAD	:	3.862	3.101	3.101
NUMBER IN ONE INCH CIRCLE	=		4	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		7	

1 Dec 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225191.1.1

CENTERFIRE PATTERNS

4

POA

1in circle

2in circle

3in circle

OF SHOTS= 10

IN CIR

1in = 3

2in = 9

3in = 9

HS= 2.786

VS= 2.082

GS= 3.197

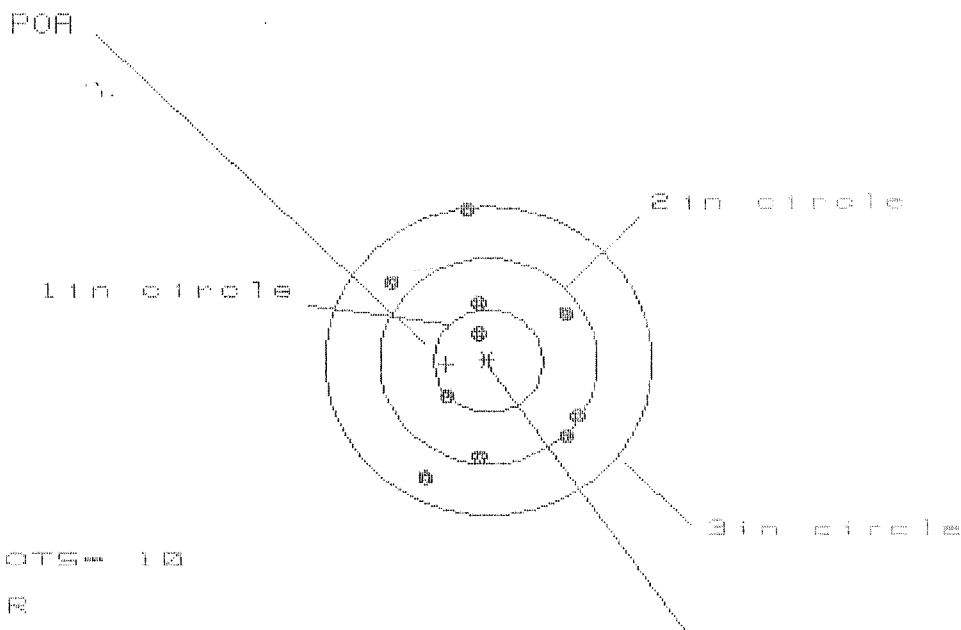
CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.790	1.103	1.003
MINIMUM X	-.996	-.797	-.804
MAXIMUM Y	.684	.528	.500
MINIMUM Y	-1.398	-.514	-.542
CENTROID X	.284	.085	.185
CENTROID Y	-.824	-.668	-.640
POA TO CENTROID in.	.871	.674	.666
MIN RADIUS	.185	.087	.039
MEAN RADIUS	.825	.614	.577
MAX RADIUS	2.271	1.216	1.140
HORIZONTAL SPREAD	2.786	1.900	1.807
VERTICAL SPREAD	2.082	1.042	1.042
EXTREME SPREAD	3.197	1.924	1.924
NUMBER IN ONE INCH CIRCLE =	3		
NUMBER IN TWO INCH CIRCLE =	9		
NUMBER IN THREE INCH CIRCLE =	9		

1 Dec 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225191.1.1

CENTERFIRE PATTERNS # 5



OF SHOTS= 10

IN CIR

1in = 2

2in = 6

3in = 10

HS= 1.705

VS= 2.558

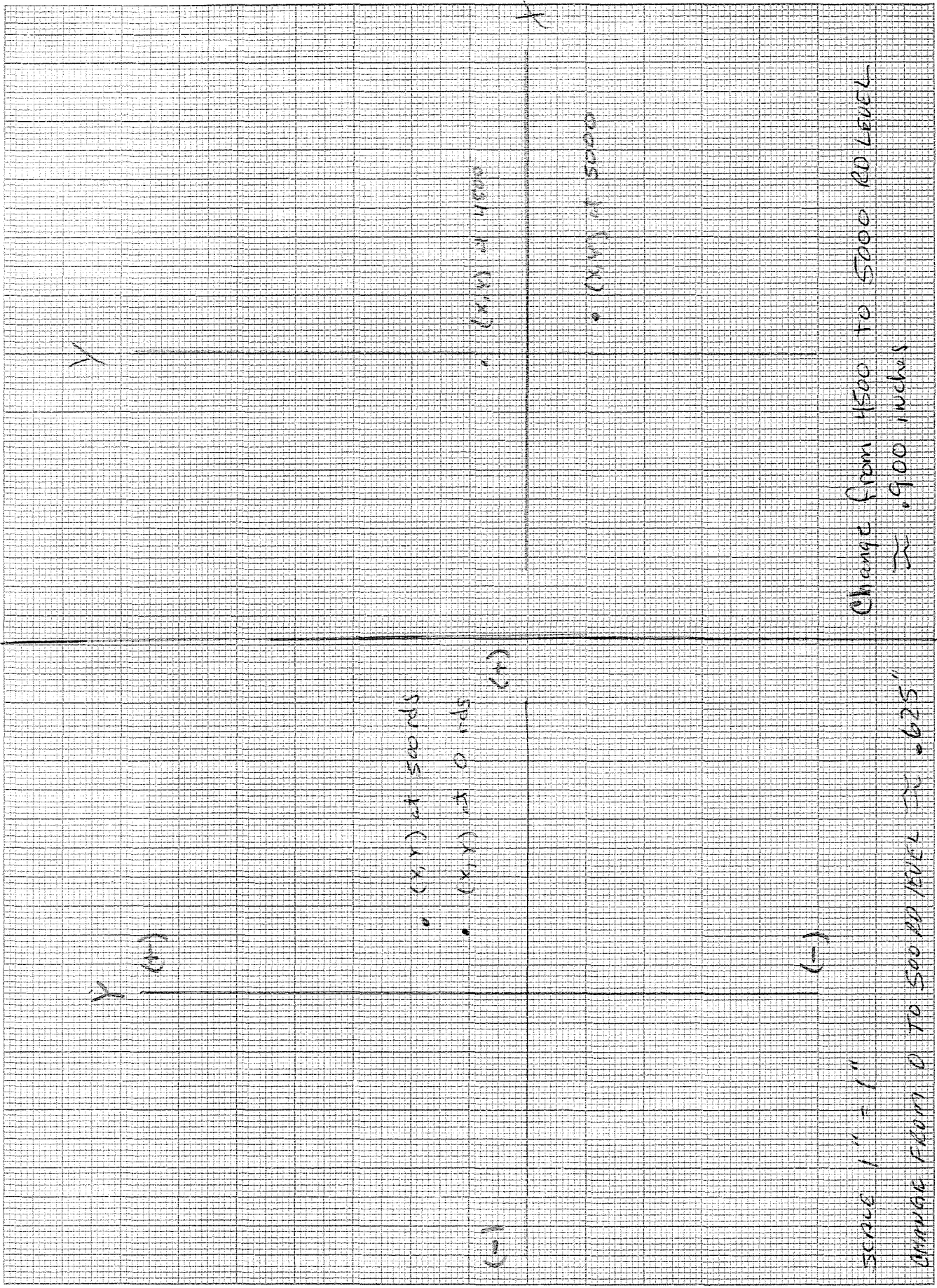
GS= 2.581

CENTROID *

PATTERN #	5	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.809	.785	.713
MINIMUM X	-.896	-.920	-.992
MAXIMUM Y	1.466	.922	.806
MINIMUM Y	-1.092	-.929	-.873
CENTROID X	.386	.410	.482
CENTROID Y	.032	-.131	-.015
POA TO CENTROID in.	.388	.430	.483
MIN RADIUS	.275	.410	.364
MEAN RADIUS	.900	.831	.789
MAX RADIUS	1.481	1.302	1.278
HORIZONTAL SPREAD	1.705	1.705	1.705
VERTICAL SPREAD	2.558	1.851	1.679
EXTREME SPREAD	2.581	2.204	2.204
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	6		
NUMBER IN THREE INCH CIRCLE =	10		

88614.221
Dec 4, 1988

16155191
ENDUANCE



SWS ENDURANCE TEST REPORT

SERIAL NO. C6225191 SHOOTER DH-AC DATE 11/11/88

AMMO CODE	AMMO TYPE	RDS.	RESULTS	OBSERVATIONS
.	7.62 ^{MK} _{NATO}	30	OK	OK
		30	"	"
		30	"	"
		30	"	"
		30	"	"
		30	"	"
		30	"	"
		30	"	"
		30	"	"
		30	"	"
		30	"	"
		30	"	"
		30	"	"
		30	"	"
		30	"	"
		30	"	"
	TOTAL	440		
11/14/88	TARGET	60	"	"
		500		

SWS ENDURANCE TEST REPORT

SERIAL NO. C6225191 SHOOTER AC & DH DATE 11-16-88

AMMO CODE	AMMO TYPE	RDS.	RESULTS	OBSERVATIONS
	7.62	30	ok	NONE
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
			"	
Total Rounds		570		

SWS ENDURANCE TEST REPORT

11/28/88

[illegible]

SWS ENDURANCE TEST REPORT

SERIAL NO. C6225191 SHOOTER DH-AC DATE 11/30/88

AMMO CODE	AMMO TYPE	RDS.	RESULTS	OBSERVATIONS
	7.62	30	OK	NONE
	11	30	11	11
	11	30	11	11
	11	30	11	11
	11	30	11	11
	11	30	11	11
	11	30	11	11
	11	30	11	11
	11	30	11	11
	11	30	11	11
	11	30	11	11
	11	30	11	11
	11	30	11	11
	11	30	11	11
	11	30	11	11
	11	30	11	11
	11	30	11	11
	11	20	11	11
	TOTAL	470		
		60	TARGET	
		530		

SWS ENDURANCE TEST REPORT

SERIAL NO. C6225191 SHOOTER AC & DH DATE 12/1/88

AMMO CODE	AMMO TYPE	RDS.	RESULTS	OBSERVATIONS
	7.62	30	OK	NONE
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	30	"	"
	"	20	"	"
Total Rds		380		
Total Rounds		5000		

