

JACK ENDURANCE CENTERFIRE

REPROT NO.:

PAGE NO.

DATE: 4-24 90

MODEL: XP 100 R

GAUGE: 223 REM

SERIAL NO. 87531730

PREVIOUS
ROUNDS

TEST TITLE: ENDURANCE

TTL. RDS. FIRED: 100

TTL. MALFUNCTIONS: 0

MALFUNCTION RATE:

"MALFUNCTIONS"

AMMUNITION Load Size	SHOOTER	NO. OF ROUNDS FIRED	FIRING	TRAPPED SHELL	DON'T EJECT	DON'T BLOW BACK	DON'T LOCK OPEN	FEED FROM MAG.		SHELL STOPS MAG.	POWER OVERRIDE	DON'T LOCK UP	STEM CHAMBER				SHELL JUMPS MAG.	FOLLOWER BINDS	LOADING	BOLT OVERRIDE	ACTION HANG UP	DON'T EXTRACT	FEEDAGES	ADJUSTMENTS	REPLACEMENTS	SELECTOR TIE	REMARKS (ON BACK)	
								1st LAUNCH	2nd				HIGH	LOW	RIGHT	LEFT											YES	NO
223 R FEDERAL SG SP	HW	20	OK																									
R223R2 REM-SSGR-N.P	HW	20	OK																									
Y223R WIN. 55GR. RSP	CS	20	OK																									
R223R1 REM. 55GR. RSP	HW	20	OK																									
Y223R1 WIN. 60GR. F&E.	JS	20	OK																									
TOTAL (PER MAL.)																												

JACK ENDURANCE CENTERFIRE

REPORT NO. 1

PAGE NO. 1

DATE: 4-24-90

MODEL: XP 100 R

GAUGE: 223 REM.

SERIAL NO. 8753 1715

PREVIOUS
ROUNDS

TEST TITLE: ENDURANCE

TTL. RDS. FIRED: 100

TTL. MALFUNCTIONS: 0

MALFUNCTION RATE: 0%

"MALFUNCTIONS"

AMMUNITION Load Size	SHOOTER	NO. OF ROUNDS FIRED	FIRING	TRAPPED SHELL	DON'T EJECT	DON'T BLOW BACK	DON'T LOCK OPEN	FEED FROM MAG.		SHELL STOPS MAG.	POWER OVERRIDE	DON'T LOCK UP	STEM CHAMBER				SHELL JUMPS MAG.	FOLLOWER BINDS	LOADING	BOLT OVERRIDE	ACTION HANG UP	DON'T EXTRACT	FEEDBACKS	ADJUSTMENTS	REPLACEMENTS	BOLT VELOCITIES	REMARKS (ON BACK)	
								1st LATCH	2nd				HIGH	LOW	RIGHT	LEFT											YES	NO
223 A FEDERAL-SS &	CS	20	OK																									
R223 R2 REM 55GR -HP	JS	20	OK																									
Y223 R WIN. 55-GR. P.SP	JS	20	OK																									
R223 E1 REM 55GR. P.SP	CS	20	OK																									
X223 R1 WIN 55GR. FBIC	HW	20	OK																									
TOTAL (PER MAL.)																												

REPORT NO.: _____

PAGE NO. _____

MODEL: XP 100 R.

GAUGE: 35 REIN.

SERIAL NO. B 753,2062

TEST TITLE: ENDURANCE

TTL. RDS. FIRED: 100

TTL. MALFUNCTIONS: 18

MAJUNCTION RATE, 18%

"MALFUNCTIONS"

R-35R1- 150GR L27FC 1005		R35R2. 200 GR M10 SR 0905 AMMUNITION		Load Size	SHOOTER	NO. OF ROUNDS FIRED	FIRING	TEA FEED SHELL	DON'T EJECT	DON'T BLOW BACK	DON'T LOCK OPEN	FEED FROM MAG.		SHELL STOPS MAG.	POWER OVERRIDE	DON'T LOCK UP	STEM CHAMBER				SHELL JUMPS MAG.	FOLLOWER BINDS	LOADING	BOLT OVERRIDE	ACTION HANG UP	DON'T EXTRACT	BREASTGAGES	ADJUSTMENTS	BOLT VELOCITIES		REMARKS (ON BACK)	
												1st LATCH	2nd				HIGH	LOW	RIGHT	LEFT									YES	NO		
REM- 200 GR. RSR		JS	20																					4								
		JS	20																					2			3					
		JS	20																					2			4					
REM- 200 GR. S.P.		JS	20																					1			1					
		JS	20																							1						
TOTAL (PER MAL.)																								9			9					

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER

BARBER - PRESALE R 0118109

R2519097

PAGE NO.

SERIAL NO. B7532078

TEST TITLE: ENDURANCE.

MALFUNCTION RATE: 26%

"MALFUNCTIONS"

[illegible]

BARBER - PRESALE R 0118110

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER

BARBER - PRESALE R 0118110

R2519098

SERIAL NO. B 753 1998

TEST TITLE: ENDURANCE.

TTL. RDS. FIRED: 100
TTL. MALFUNCTIONS: 7
MALFUNCTION RATE: 7%

"MALFUNCTIONS"

[illegible]

REPROT NO. 3

PAGE NO. _____

MODEL: XP-100 R .

GAUGE: 7 m/m - 08

SERIAL NO. B753 1974

PREVIOUS ROUNDS

TEST TITLE: ENDURANCE

TTL. RDS. FIRED: 100

TTL MALFUNCTIONS:

Malfunction Rate: 1%

"MALFUNCTIONS"

[illegible]

BARBER - PRESALE R 0118112

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER

BARBER - PRESALE R 0118112

R2519100

PAGE NO.

SERIAL NO. B7532032

TEST TITLE: ENDURANCE

MALFUNCTION RATE:

"MALFUNCTIONS"

[illegible]

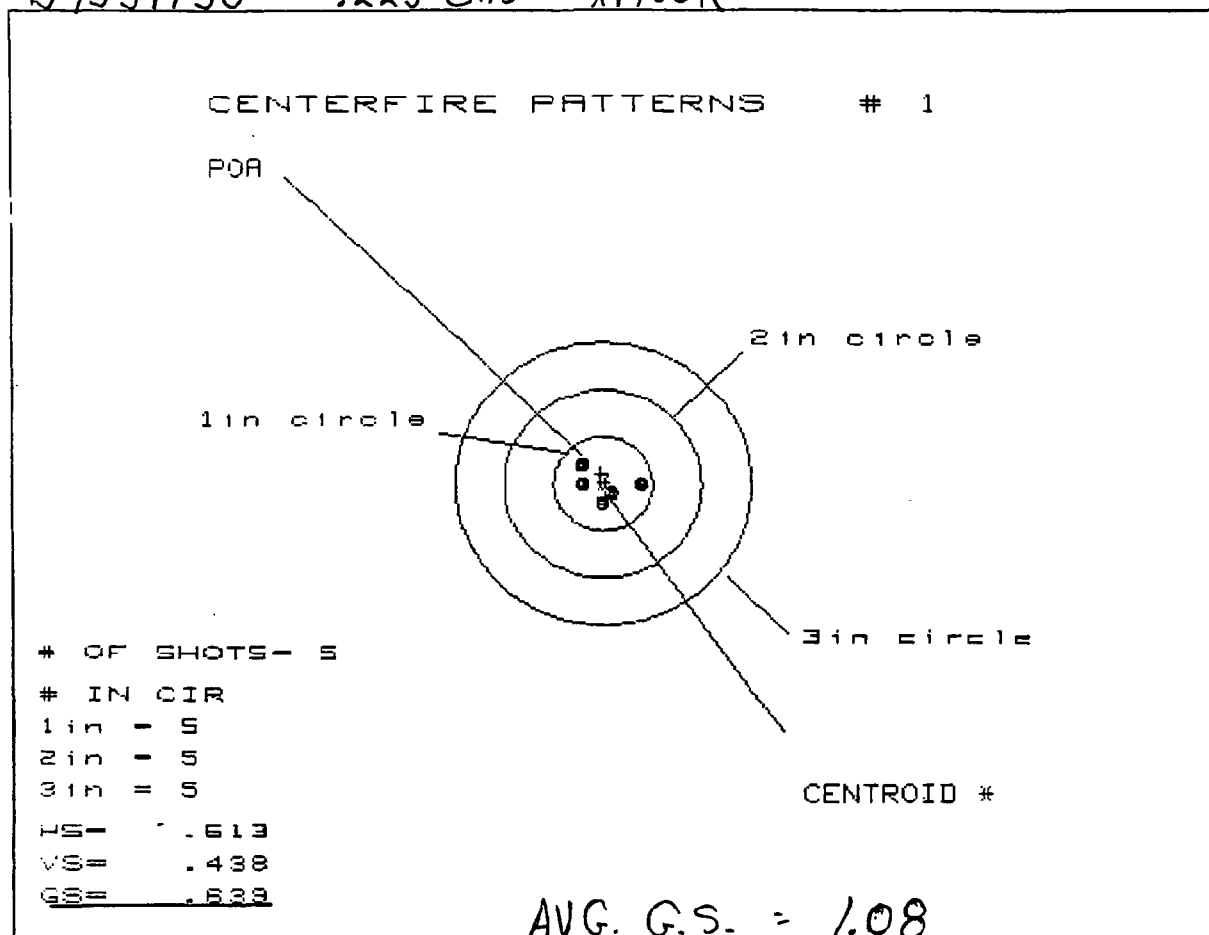
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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER

BARBER - PRESALE R 0118113

R2519101

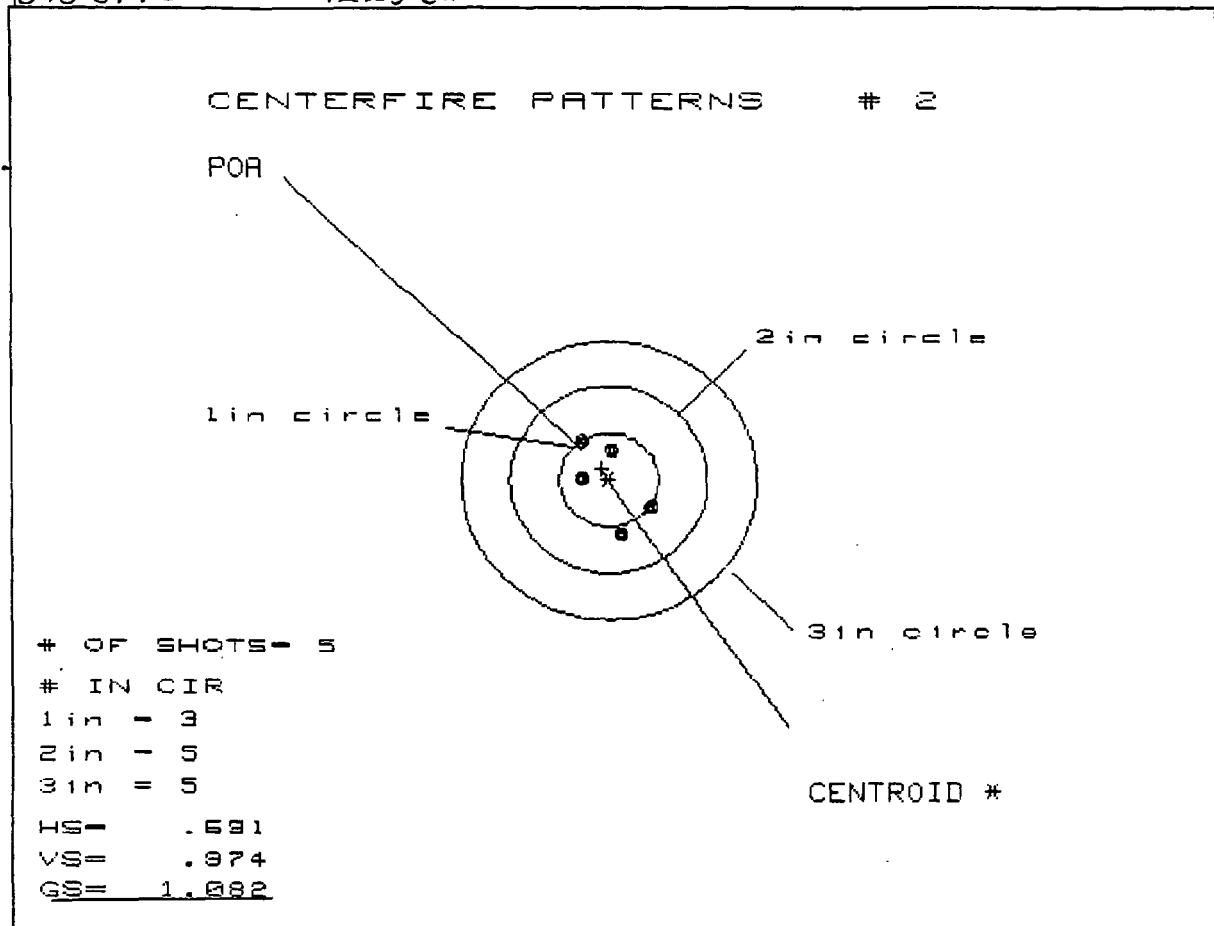
B 7531730 .223 CAL XP100R



PATTERN #	1	2	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	.378	.165	.128
MINIMUM X	-.235	-.141	-.178
MAXIMUM Y	.244	.239	.124
MINIMUM Y	-.194	-.199	-.119
CENTROID X	.016	-.078	-.041
CENTROID Y	-.108	-.103	-.183
POA TO CENTROID in.	.109	.129	.187
MIN RADIUS	.106	.147	.128
MEAN RADIUS	.248	.203	.158
MAX RADIUS	.378	.263	.216
HORIZONTAL SPREAD	.613	.306	.306
VERTICAL SPREAD	.438	.438	.243
EXTREME SPREAD	.639	.480	.333
NUMBER IN ONE INCH CIRCLE =	5		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	5		

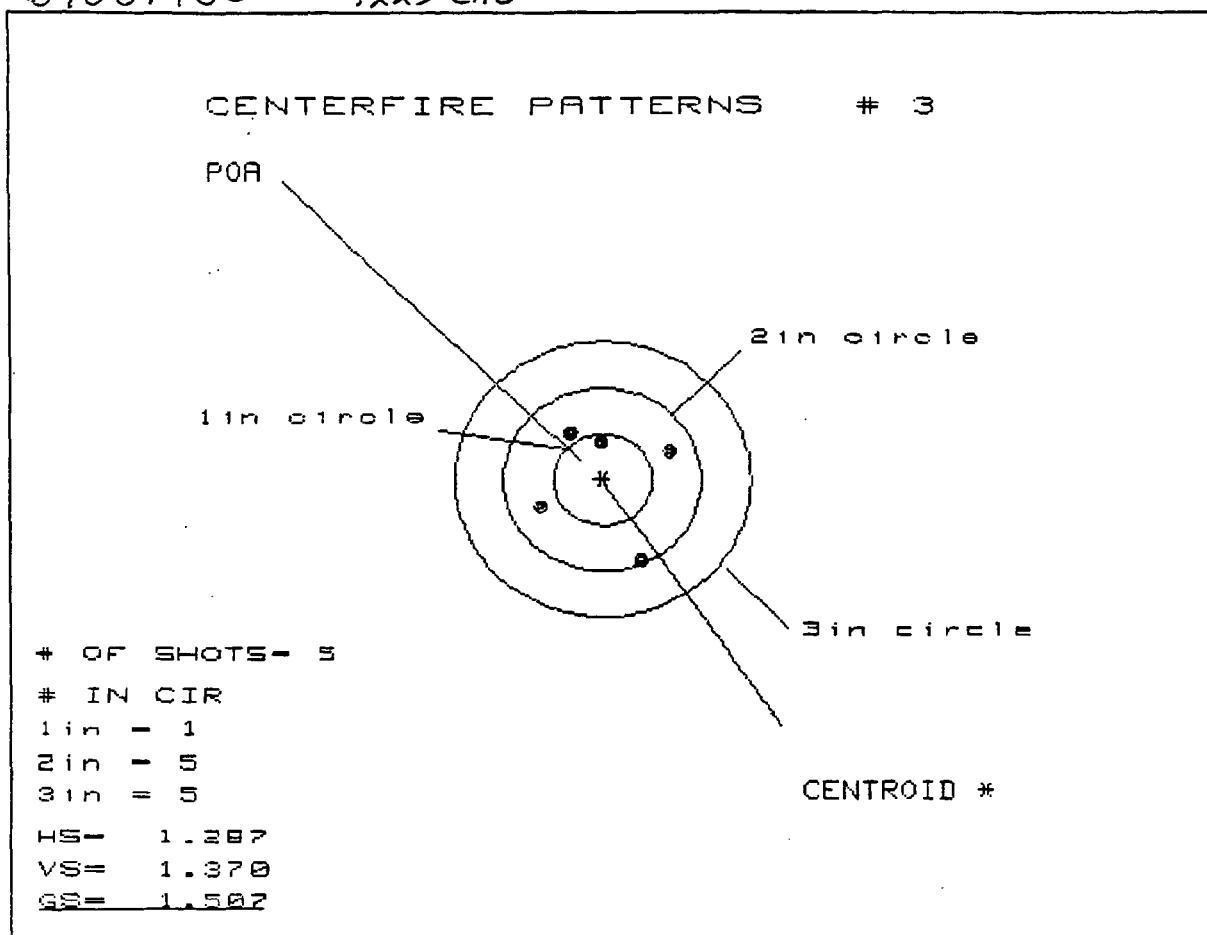
B7531730

.223 CAL



PATTERN #	2	4	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	.378	.421	.335
MINIMUM X	-.313	-.270	-.356
MAXIMUM Y	.418	.279	.276
MINIMUM Y	-.556	-.384	-.291
CENTROID X	.077	.034	.120
CENTROID Y	-.120	.019	-.074
POA TO CENTROID in.	.143	.039	.141
MIN RADIUS	.319	.211	.277
MEAN RADIUS	.439	.360	.359
MAX RADIUS	.582	.570	.444
HORIZONTAL SPREAD	.691	.691	.691
VERTICAL SPREAD	.974	.663	.567
EXTREME SPREAD	1.082	.948	.756
NUMBER IN ONE INCH CIRCLE =	3	5	5
NUMBER IN TWO INCH CIRCLE =	5	5	5
NUMBER IN THREE INCH CIRCLE =	5	5	5

B7531730 .223 CAL



PATTERN #	3	4	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	.634	.715	.525
MINIMUM X	-.653	-.572	-.409
MAXIMUM Y	.474	.250	.090
MINIMUM Y	-.896	-.478	-.108
CENTROID X	.026	-.055	.115
CENTROID Y	-.017	.207	.367
POA TO CENTROID in.	.031	.214	.391
MIN RADIUS	.401	.192	.117
MEAN RADIUS	.662	.497	.357
MAX RADIUS	.954	.745	.536
HORIZONTAL SPREAD	1.287	1.287	.934
VERTICAL SPREAD	1.370	.728	.198
EXTREME SPREAD	1.507	1.392	.955
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	5		

B7531715

.223 CAL

XP100R

CENTERFIRE PATTERNS

1

POA

1in circle

2in circle

3in circle

OF SHOTS- 5

IN CIR

1in = 3

2in = 5

3in = 5

HS= 1.330

VS= .785

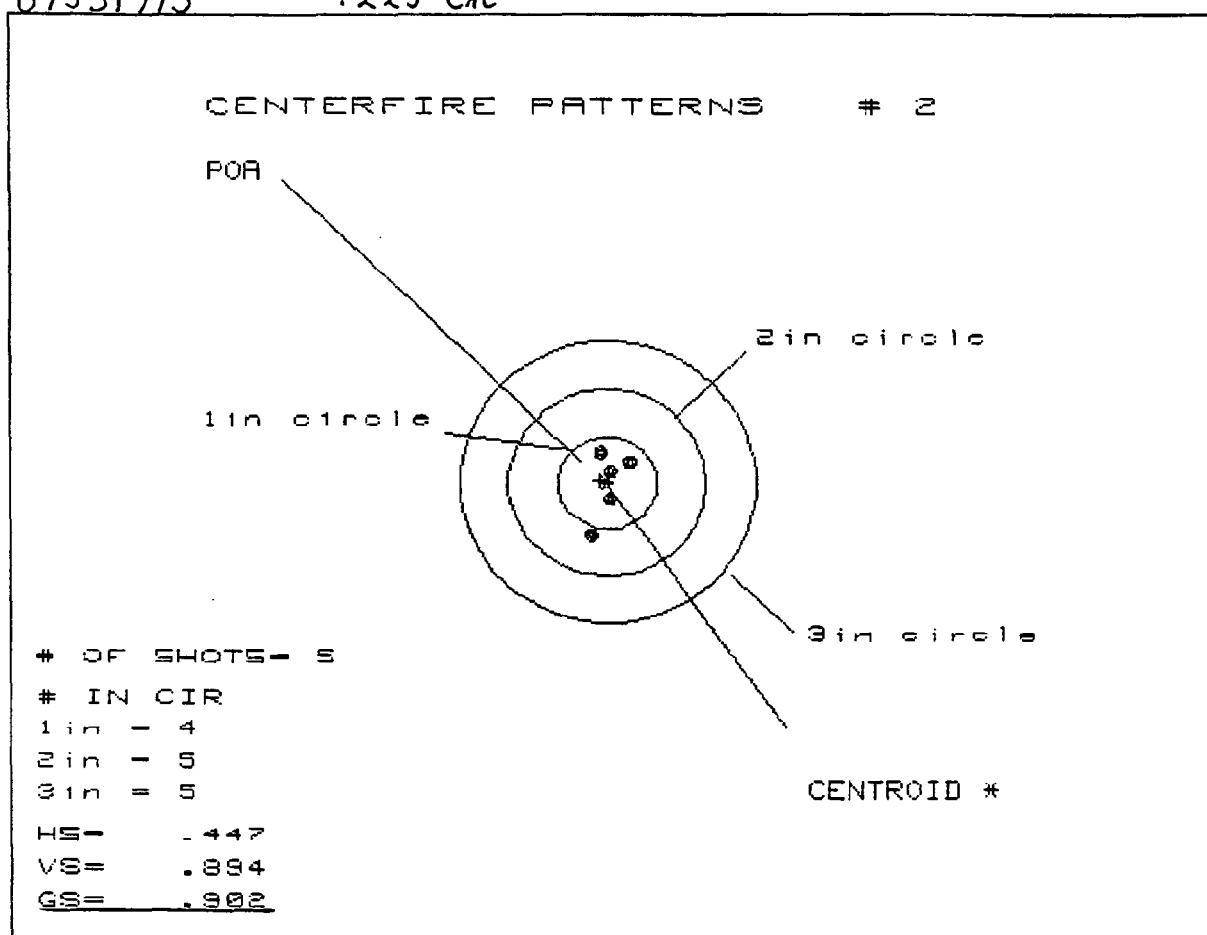
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CENTROID *

PATTERN #	1	4	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	.613	.433	.227
MINIMUM X	-.717	-.395	-.250
MAXIMUM Y	.411	.339	.408
MINIMUM Y	-.374	-.446	-.377
CENTROID X	.091	.271	.126
CENTROID Y	-.048	.024	-.045
POA TO CENTROID in.	.103	.272	.134
MIN RADIUS	.066	.157	.040
MEAN RADIUS	.486	.403	.319
MAX RADIUS	.772	.520	.479
HORIZONTAL SPREAD	1.330	.828	.477
VERTICAL SPREAD	.785	.785	.785
EXTREME SPREAD	1.445	.919	.919
NUMBER IN ONE INCH CIRCLE =	3		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	5		

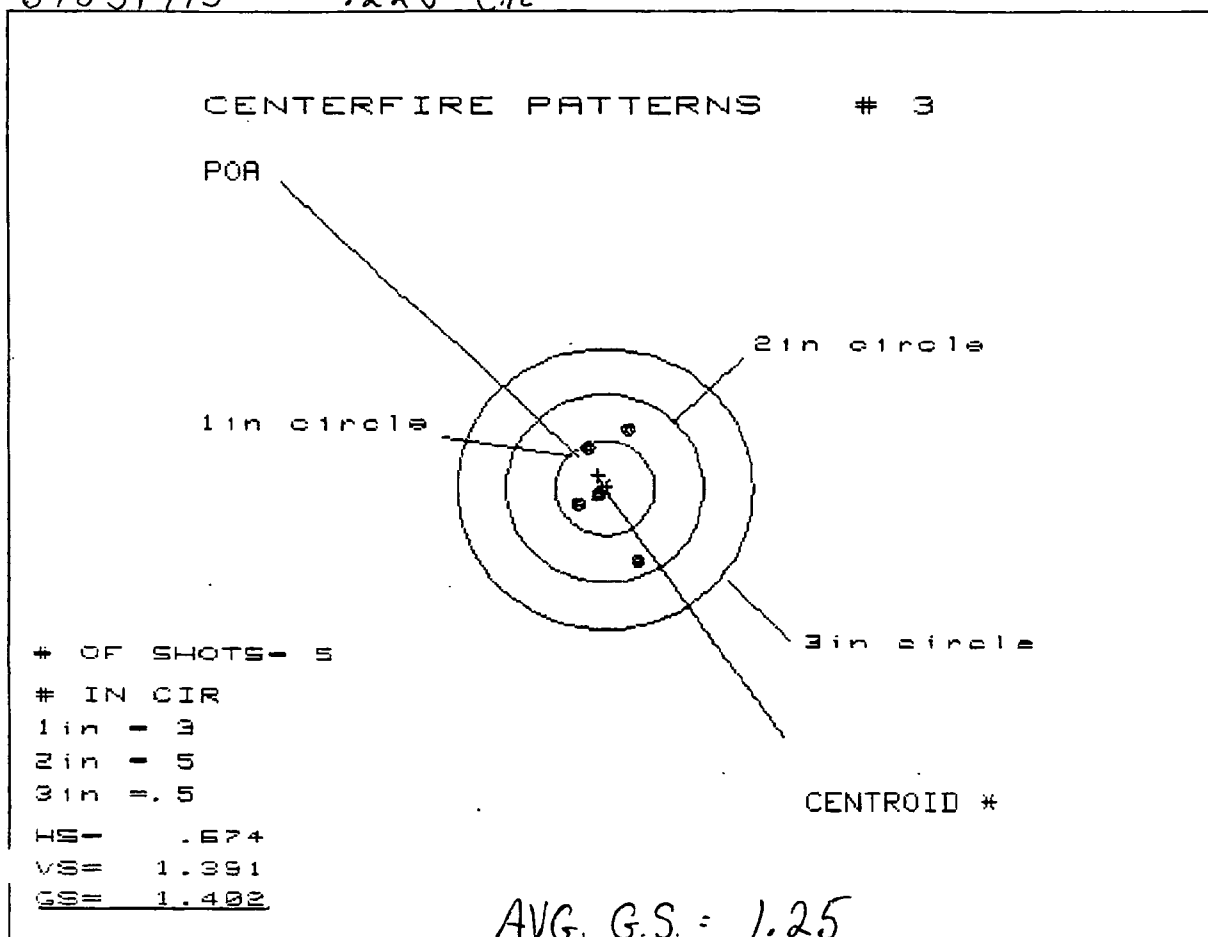
B7531715

.223 CAL



PATTERN #	2	4	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	.236	.183	.135
MINIMUM X	-.211	-.145	-.097
MAXIMUM Y	.377	.247	.174
MINIMUM Y	-.517	-.325	-.242
CENTROID X	.072	.124	.173
CENTROID Y	-.034	.096	.013
POA TO CENTROID in.	.079	.157	.173
MIN RADIUS	.131	.018	.078
MEAN RADIUS	.319	.210	.186
MAX RADIUS	.559	.328	.261
HORIZONTAL SPREAD	.447	.329	.232
VERTICAL SPREAD	.894	.572	.416
EXTREME SPREAD	.902	.580	.476
NUMBER IN ONE INCH CIRCLE	= 4		
NUMBER IN TWO INCH CIRCLE	= 5		
NUMBER IN THREE INCH CIRCLE	= 5		

87531715 .223 CAL

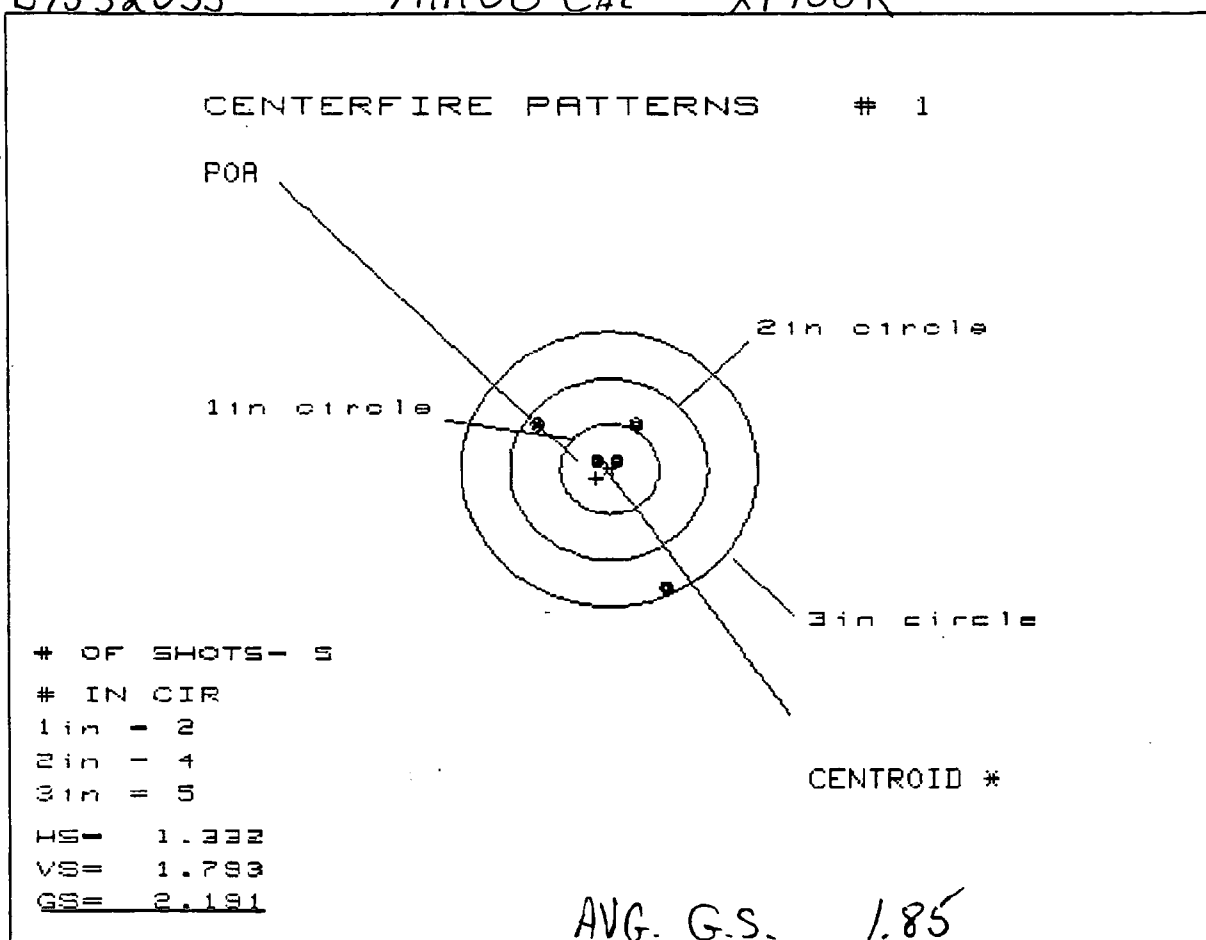


PATTERN #	3	4	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	.366	.283	.101
MINIMUM X	-.308	-.216	-.122
MAXIMUM Y	.596	.398	.321
MINIMUM Y	-.795	-.343	-.211
CENTROID X	.071	-.020	-.115
CENTROID Y	-.133	.065	-.067
POA TO CENTROID in.	.151	.068	.133
MIN RADIUS	.096	.202	.150
MEAN RADIUS	.472	.335	.238
MAX RADIUS	.875	.488	.322
HORIZONTAL SPREAD	.674	.499	.223
VERTICAL SPREAD	1.391	.741	.532
EXTREME SPREAD	1.402	.893	.551
NUMBER IN ONE INCH CIRCLE	= 3		
NUMBER IN TWO INCH CIRCLE	= 5		
NUMBER IN THREE INCH CIRCLE	= 5		

B7532035

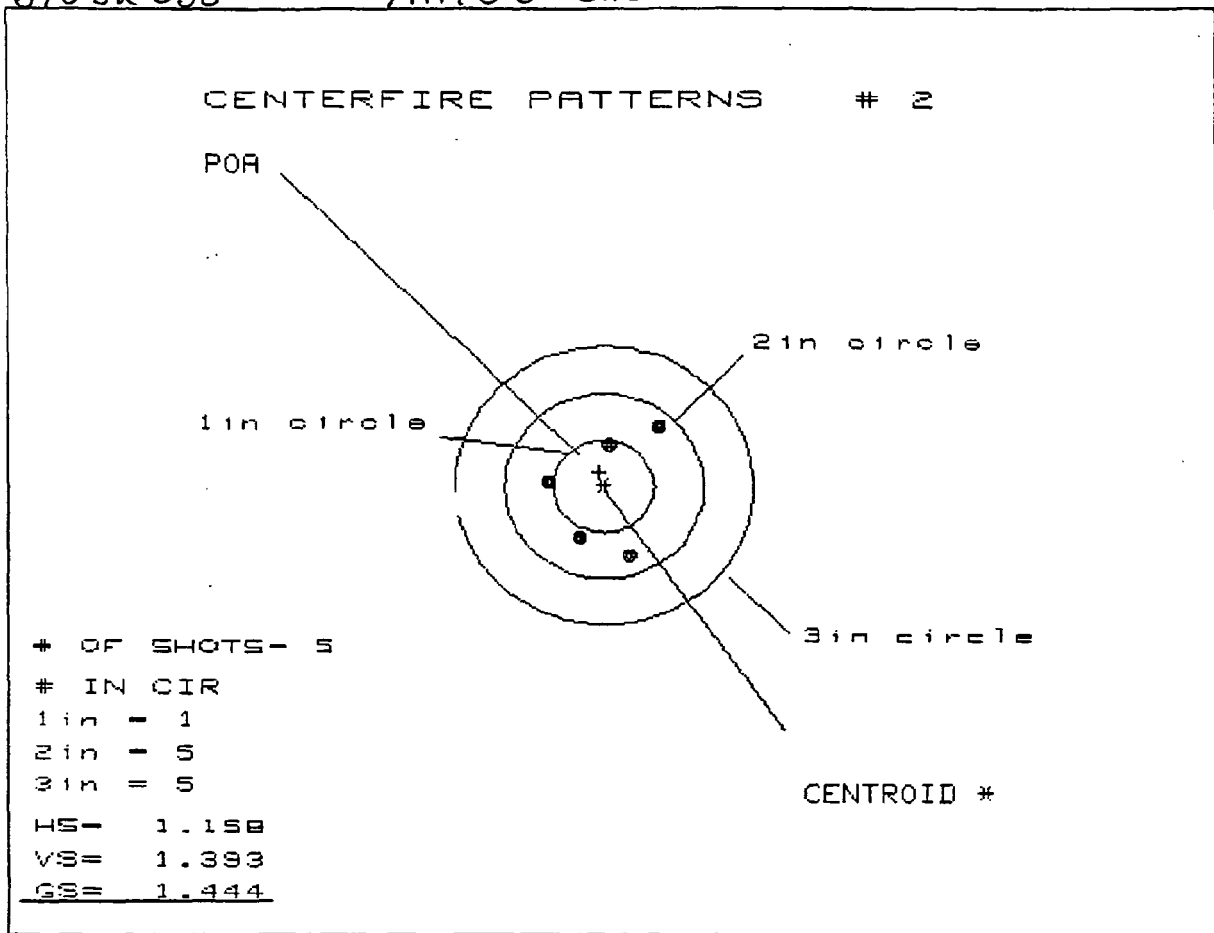
7MM08 CAL

XP100R



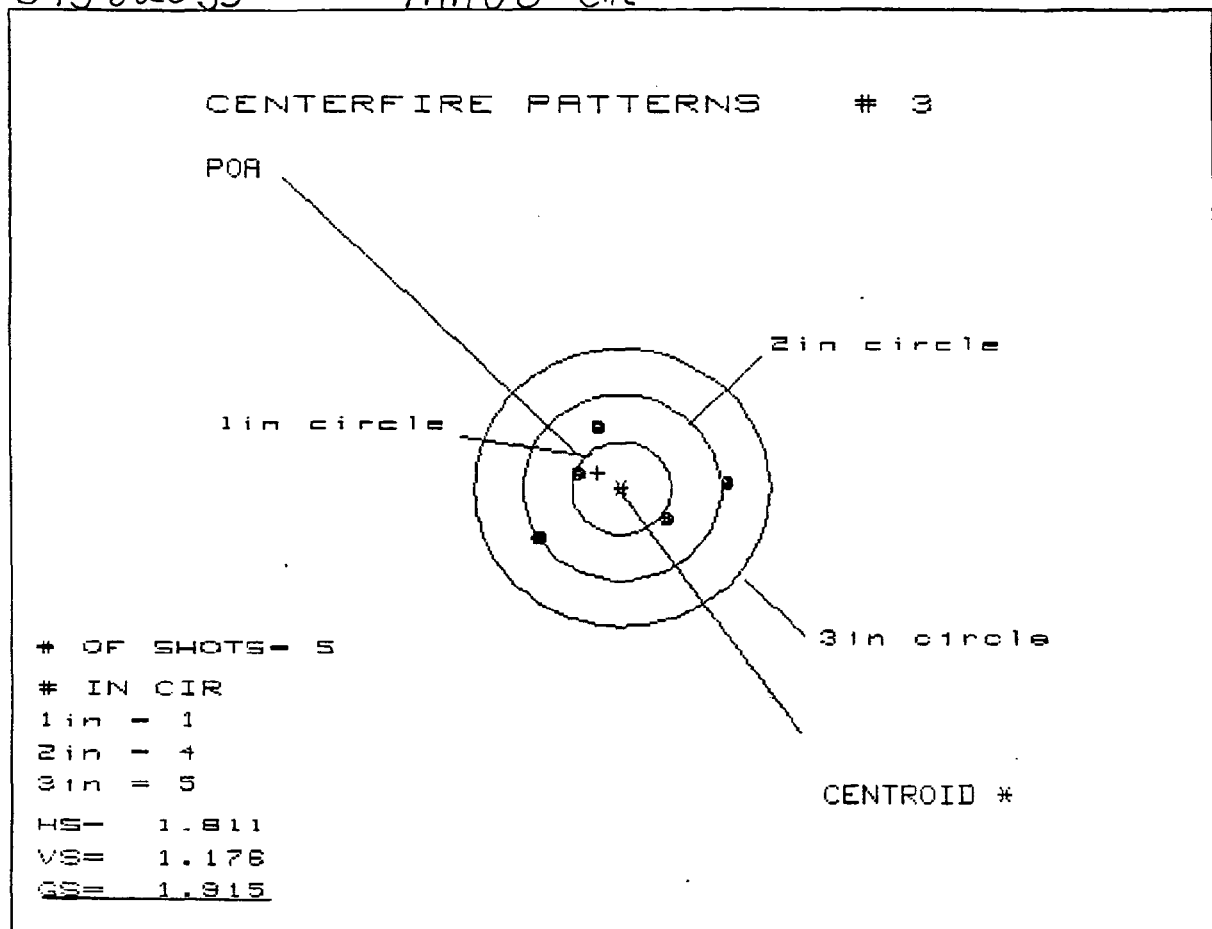
PATTERN #	1	2	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	.582	.393	.191
MINIMUM X	-.750	-.604	-.179
MAXIMUM Y	.540	.227	.285
MINIMUM Y	-1.253	-.208	-.150
CENTROID X	.127	-.019	.183
CENTROID Y	.099	.412	.354
POA TO CENTROID in.	.161	.413	.399
MIN RADIUS	.128	.209	.135
MEAN RADIUS	.632	.390	.237
MAX RADIUS	1.382	.629	.343
HORIZONTAL SPREAD	1.332	.997	.370
VERTICAL SPREAD	1.793	.435	.435
EXTREME SPREAD	2.191	.998	.571
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		4	
NUMBER IN THREE INCH CIRCLE =		5	

B7532 035 7MM08 Cal



PATTERN #	1	2	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	.557	.424	.287
MINIMUM X	-.601	-.462	-.321
MAXIMUM Y	.678	.664	.482
MINIMUM Y	-.715	-.545	-.534
CENTROID X	.053	-.086	-.227
CENTROID Y	-.152	-.322	-.140
POA TO CENTROID in.	.161	.333	.267
MIN RADIUS	.494	.368	.325
MEAN RADIUS	.665	.564	.474
MAX RADIUS	.878	.690	.561
HORIZONTAL SPREAD	1.158	.886	.608
VERTICAL SPREAD	1.393	1.209	1.016
EXTREME SPREAD	1.444	1.241	1.047
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	5		

B7532035 7MM08 CAL

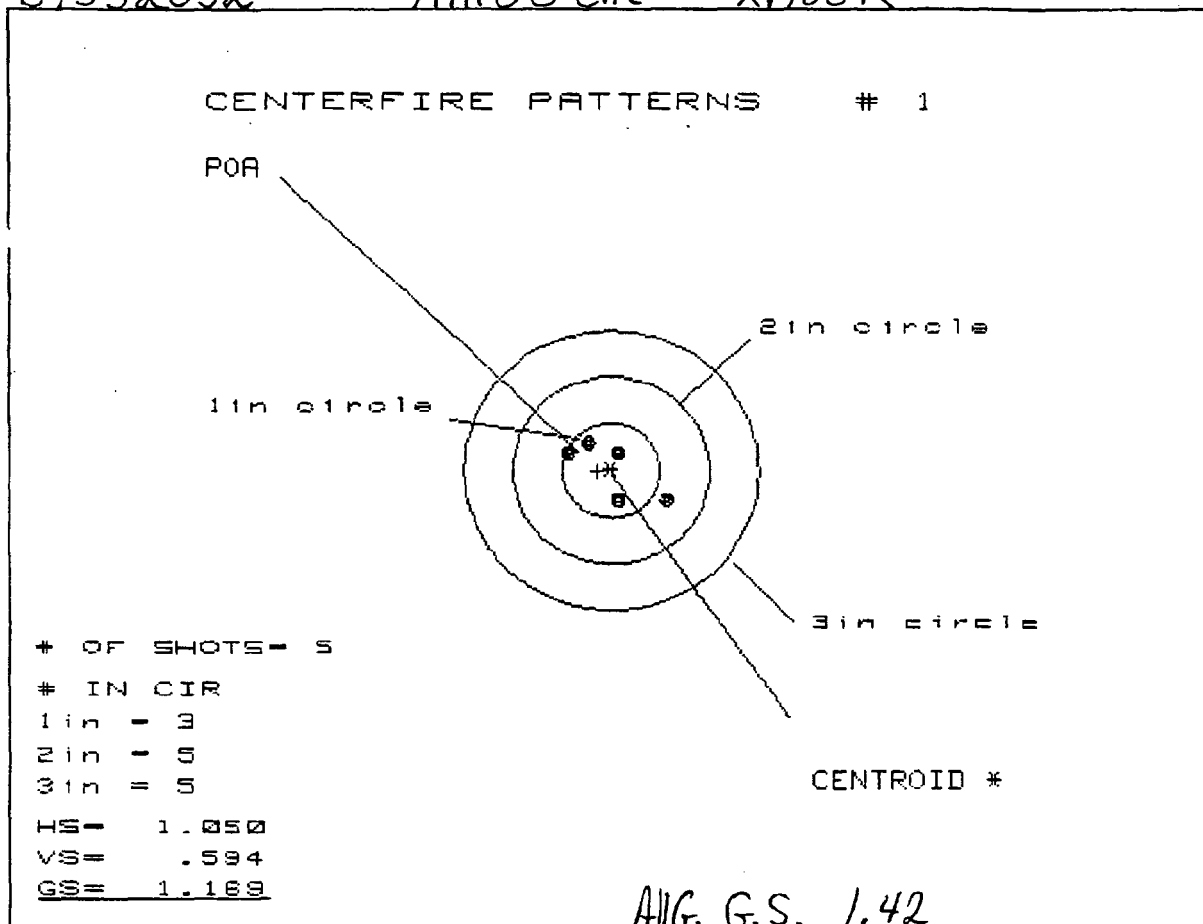


PATTERN #	:	3		
SHOTS (BEST OF)	:	5	4	3
MAXIMUM X	:	1.009	.727	.544
MINIMUM X	:	-.002	-.549	-.326
MAXIMUM Y	:	.626	.644	.467
MINIMUM Y	:	-.550	-.532	-.500
CENTROID X	:	.243	-.010	.173
CENTROID Y	:	-.167	-.185	-.008
POA TO CENTROID in.	:	.294	.185	.174
MIN RADIUS	:	.440	.255	.328
MEAN RADIUS	:	.739	.615	.527
MAX RADIUS	:	1.012	.795	.739
HORIZONTAL SPREAD	:	1.811	1.276	.870
VERTICAL SPREAD	:	1.176	1.176	.967
EXTREME SPREAD	:	1.915	1.293	1.231
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		5	

B7532032

7mm08 cal

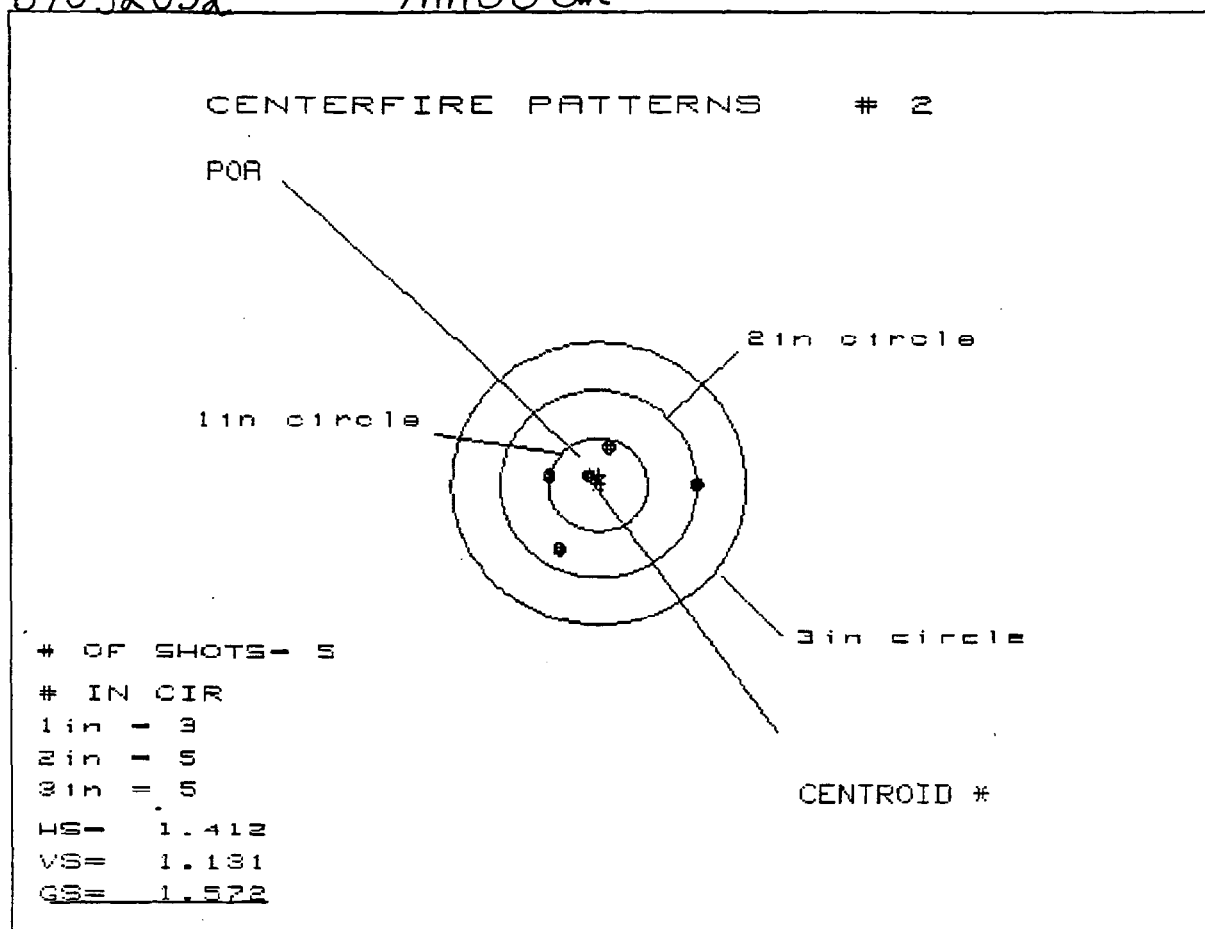
XP100R



PATTERN #	1	4	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	.587	.251	.146
MINIMUM X	-.463	-.317	-.210
MAXIMUM Y	.274	.194	.232
MINIMUM Y	-.320	-.384	-.346
CENTROID X	.134	-.012	.093
CENTROID Y	.007	.087	.049
POA TO CENTROID in.	.135	.088	.105
MIN RADIUS	.158	.187	.131
MEAN RADIUS	.404	.301	.273
MAX RADIUS	.668	.459	.375
HORIZONTAL SPREAD	1.050	.568	.356
VERTICAL SPREAD	.594	.578	.578
EXTREME SPREAD	1.169	.755	.679
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		5	
NUMBER IN THREE INCH CIRCLE =		5	

B7532032

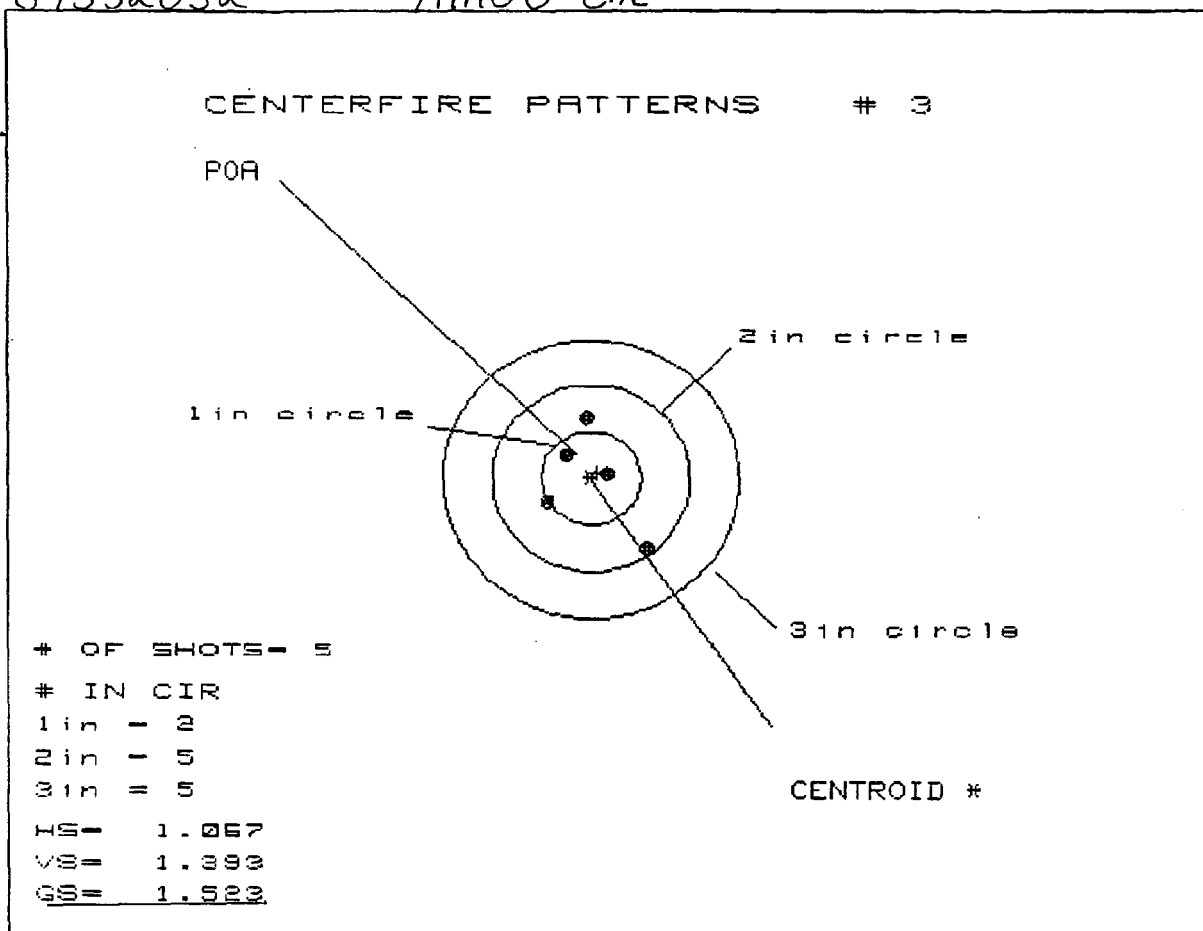
7mm08 cal



PATTERN #	2	4	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	.954	.300	.238
MINIMUM X	-.458	-.220	-.282
MAXIMUM Y	.421	.431	.190
MINIMUM Y	-.710	-.700	-.128
CENTROID X	-.001	-.239	-.177
CENTROID Y	-.109	-.119	.114
POA TO CENTROID in.	.109	.267	.210
MIN RADIUS	.163	.150	.135
MEAN RADIUS	.571	.418	.245
MAX RADIUS	.955	.724	.310
HORIZONTAL SPREAD	1.412	.520	.520
VERTICAL SPREAD	1.131	1.131	.326
EXTREME SPREAD	1.572	1.231	.585
NUMBER IN ONE INCH CIRCLE =	3		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	5		

B7532032

7mm08 CAL



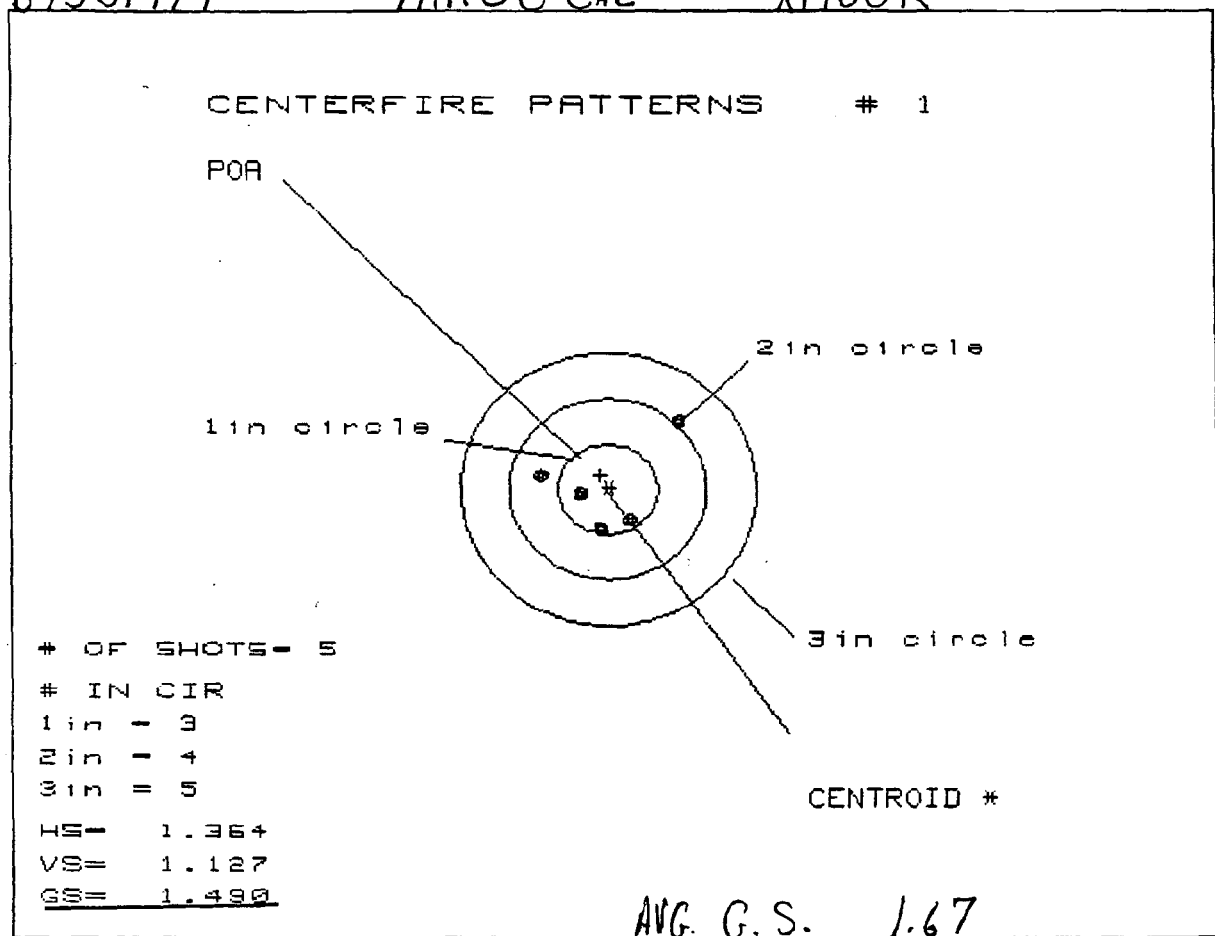
PATTERN #	:	3	4	5
SHOTS (BEST OF)	:	5	4	5
MAXIMUM X	:	.585	.321	.360
MINIMUM X	:	-.482	-.336	-.297
MAXIMUM Y	:	.656	.472	.269
MINIMUM Y	:	-.737	-.446	-.289
CENTROID X	:	-.053	-.199	-.238
CENTROID Y	:	-.053	.131	-.026
POA TO CENTROID in.	:	.075	.239	.239
MIN RADIUS	:	.181	.150	.276
MEAN RADIUS	:	.543	.386	.350
MAX RADIUS	:	.941	.558	.415
HORIZONTAL SPREAD	:	1.067	.657	.657
VERTICAL SPREAD	:	1.393	.918	.558
EXTREME SPREAD	:	1.523	1.023	.726
NUMBER IN ONE INCH CIRCLE	=	2		
NUMBER IN TWO INCH CIRCLE	=	5		
NUMBER IN THREE INCH CIRCLE	=	5		

Ken

B7531974

7mm08 CAL

XP100R

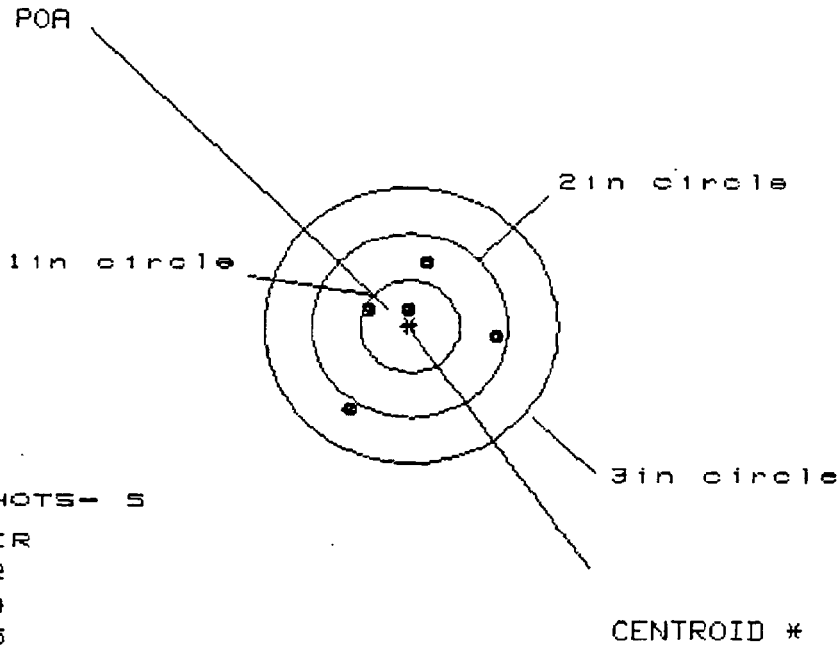


PATTERN #	1	4	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	.712	.438	.280
MINIMUM X	-.652	-.473	-.268
MAXIMUM Y	.710	.288	.196
MINIMUM Y	-.417	-.239	-.144
CENTROID X	.080	-.098	.059
CENTROID Y	-.158	-.336	-.431
POA TO CENTROID in.	.177	.350	.435
MIN RADIUS	.299	.149	.144
MEAN RADIUS	.560	.362	.254
MAX RADIUS	1.006	.554	.332
HORIZONTAL SPREAD	1.364	.911	.548
VERTICAL SPREAD	1.127	.527	.340
EXTREME SPREAD	1.490	1.010	.602
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		4	
NUMBER IN THREE INCH CIRCLE =		5	

B7531974

7mm08 CAL

CENTERFIRE PATTERNS # 2



OF SHOTS- 5

IN CIR

1 in = 2

2 in = 4

3 in = 5

HS= 1.467

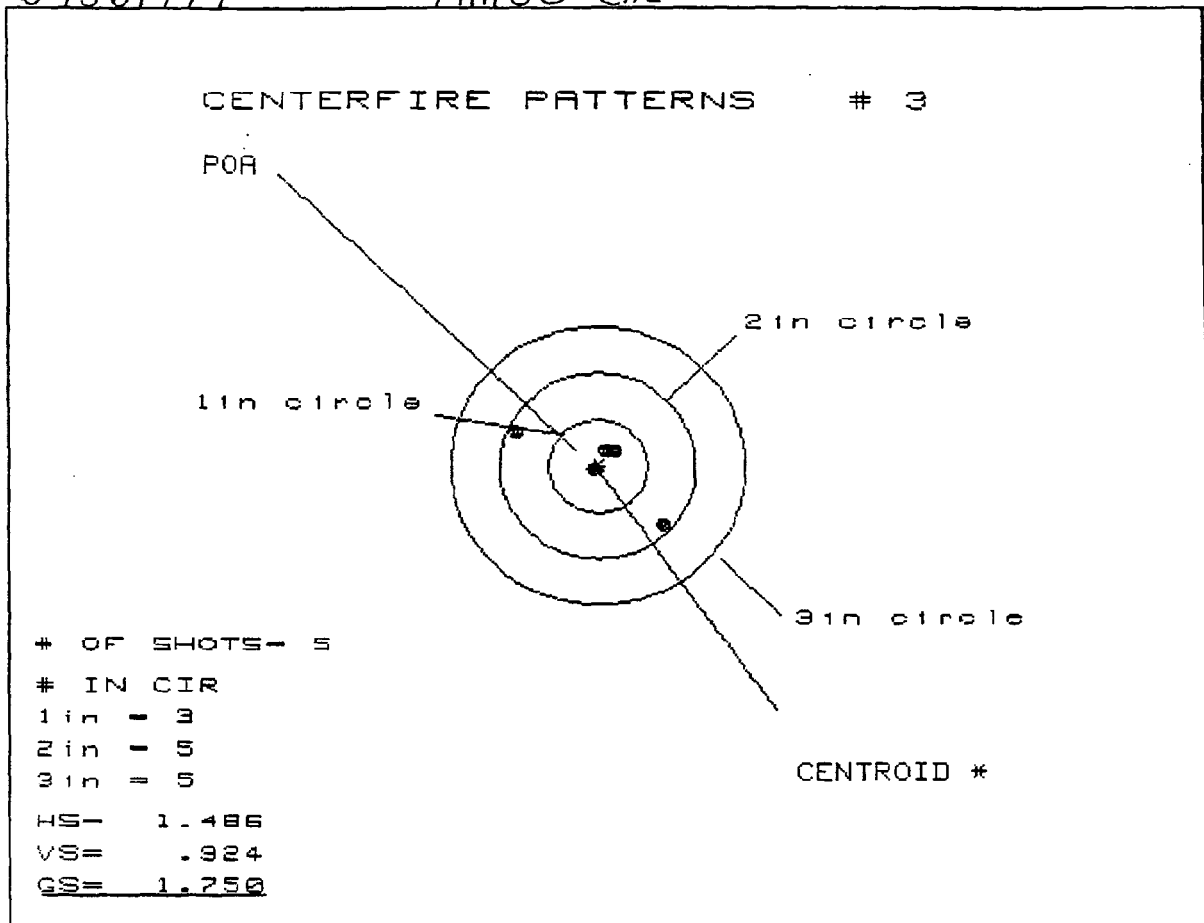
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GS= 1.781

PATTERN #	2	3	4
SHOTS (BEST OF)	5	4	3
MAXIMUM X	.870	.720	.239
MINIMUM X	-.597	-.591	-.351
MAXIMUM Y	.669	.432	.319
MINIMUM Y	-.948	-.338	-.171
CENTROID X	.026	.176	-.064
CENTROID Y	.002	.239	.352
POA TO CENTROID in.	.027	.297	.358
MIN RADIUS	.180	.141	.204
MEAN RADIUS	.669	.490	.328
MAX RADIUS	1.121	.795	.399
HORIZONTAL SPREAD	1.467	1.311	.590
VERTICAL SPREAD	1.617	.769	.490
EXTREME SPREAD	1.781	1.345	.752
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	5		

B7531974

7mm08 CAL

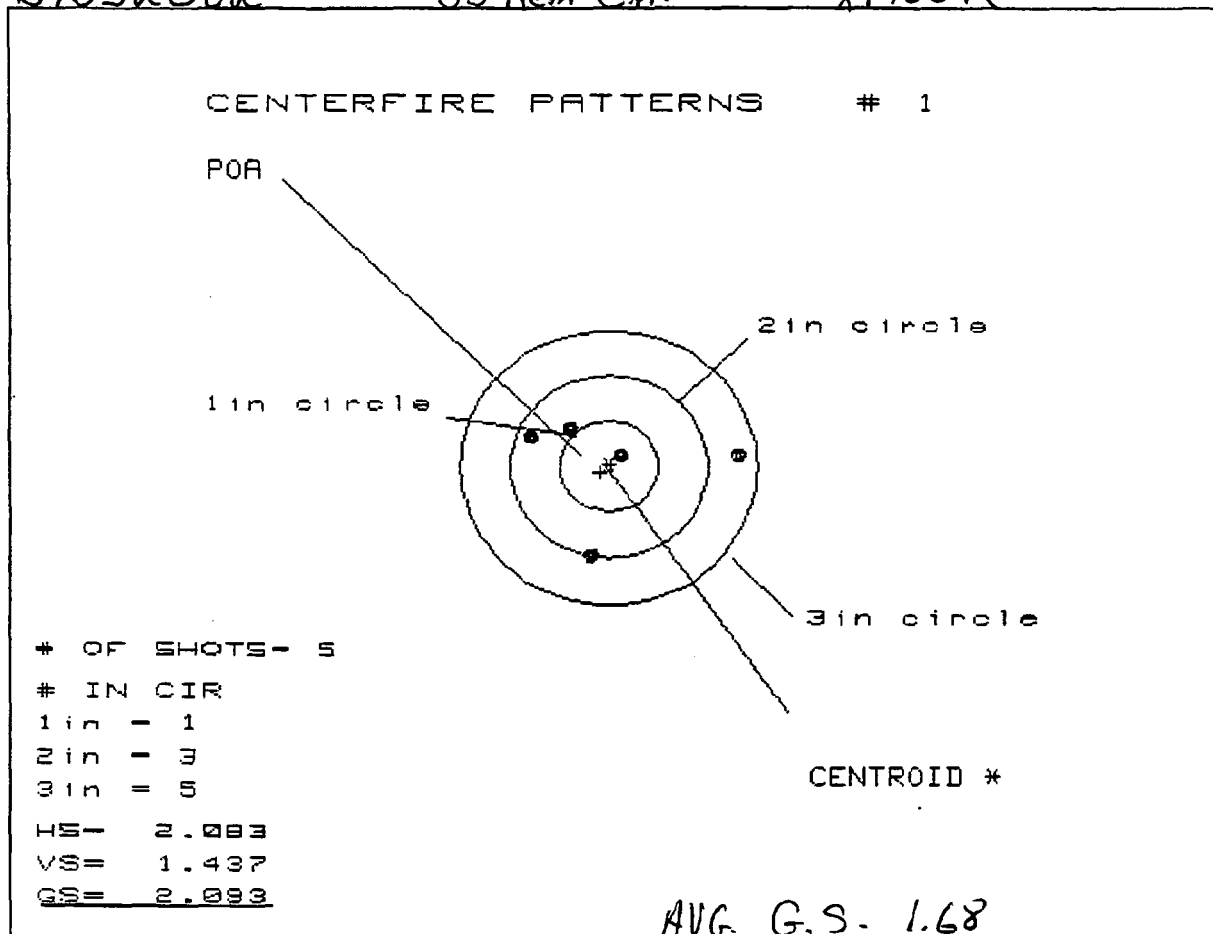


PATTERN #	3	4	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	.642	.431	.106
MINIMUM X	-.844	-.244	-.100
MAXIMUM Y	.343	.220	.055
MINIMUM Y	-.581	-.495	-.110
CENTROID X	.036	.247	.103
CENTROID Y	.025	-.061	.104
POA TO CENTROID in.	.044	.254	.146
MIN RADIUS	.045	.223	.055
MEAN RADIUS	.438	.349	.108
MAX RADIUS	.911	.657	.149
HORIZONTAL SPREAD	1.486	.675	.206
VERTICAL SPREAD	.924	.715	.165
EXTREME SPREAD	1.750	.921	.264
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		5	
NUMBER IN THREE INCH CIRCLE =		5	

B7532062

35 Rem Cal.

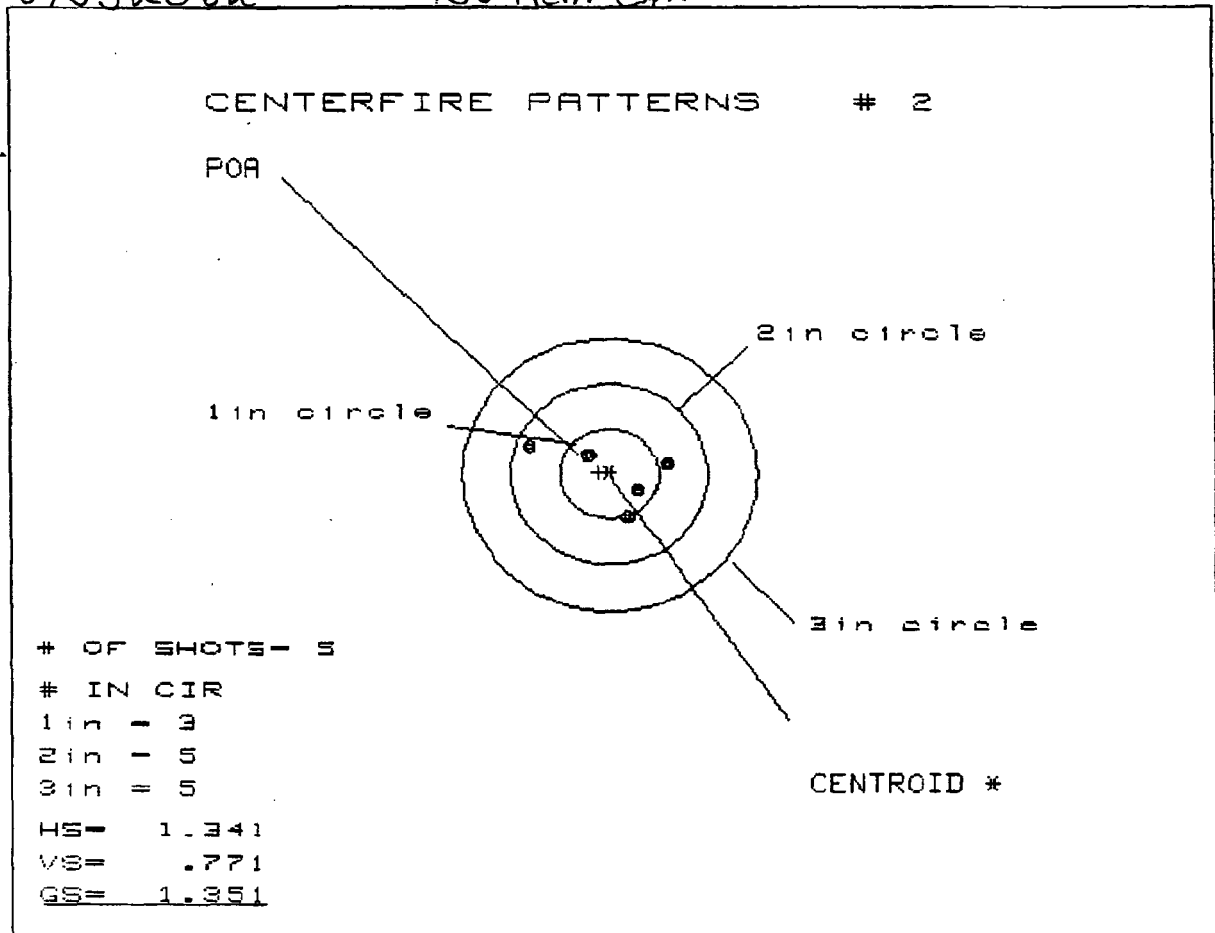
XP100R



PATTERN #	1	2	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	1.294	.433	.463
MINIMUM X	-.789	-.465	-.435
MAXIMUM Y	.458	.481	.162
MINIMUM Y	-.979	-.957	-.154
CENTROID X	.090	-.234	-.264
CENTROID Y	.072	.049	.368
POA TO CENTROID in.	.115	.239	.453
MIN RADIUS	.179	.463	.164
MEAN RADIUS	.784	.617	.362
MAX RADIUS	1.297	.961	.489
HORIZONTAL SPREAD	2.083	.898	.898
VERTICAL SPREAD	1.437	1.437	.316
EXTREME SPREAD	2.093	1.445	.910
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	3		
NUMBER IN THREE INCH CIRCLE =	5		

B7532062

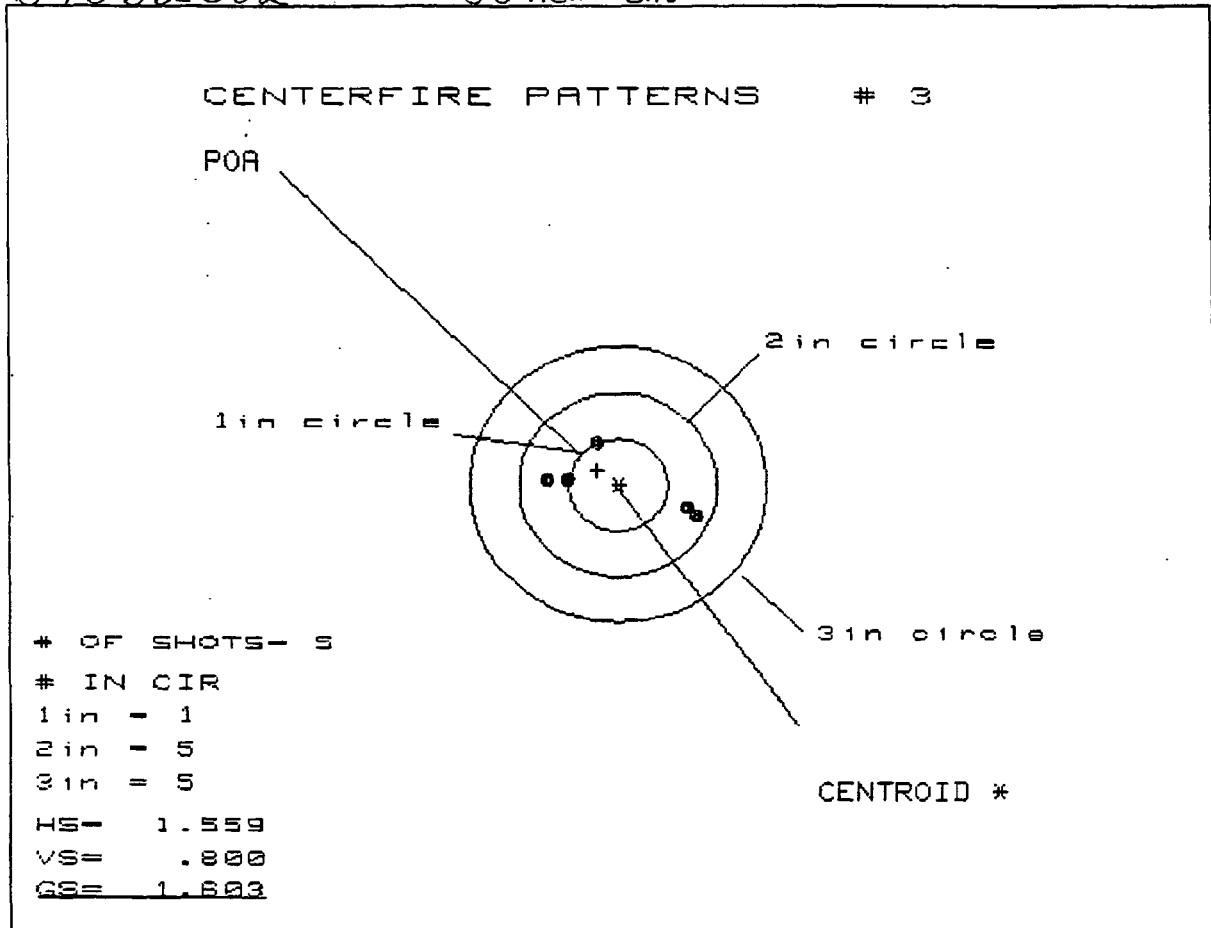
.35 Rem Cal.



PATTERN #	2	4	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	.542	.342	.231
MINIMUM X	-.799	-.407	-.293
MAXIMUM Y	.303	.244	.317
MINIMUM Y	-.468	-.393	-.320
CENTROID X	.113	.313	.199
CENTROID Y	-.019	-.094	-.167
FOR TO CENTROID in.	.115	.327	.260
MIN RADIUS	.267	.136	.231
MEAN RADIUS	.504	.353	.330
MAX RADIUS	.855	.475	.431
HORIZONTAL SPREAD	1.341	.749	.524
VERTICAL SPREAD	.771	.637	.637
EXTREME SPREAD	1.351	.749	.729
NUMBER IN ONE INCH CIRCLE	= 3		
NUMBER IN TWO INCH CIRCLE	= 5		
NUMBER IN THREE INCH CIRCLE	= 5		

B7532062

.35 Rem Cal.

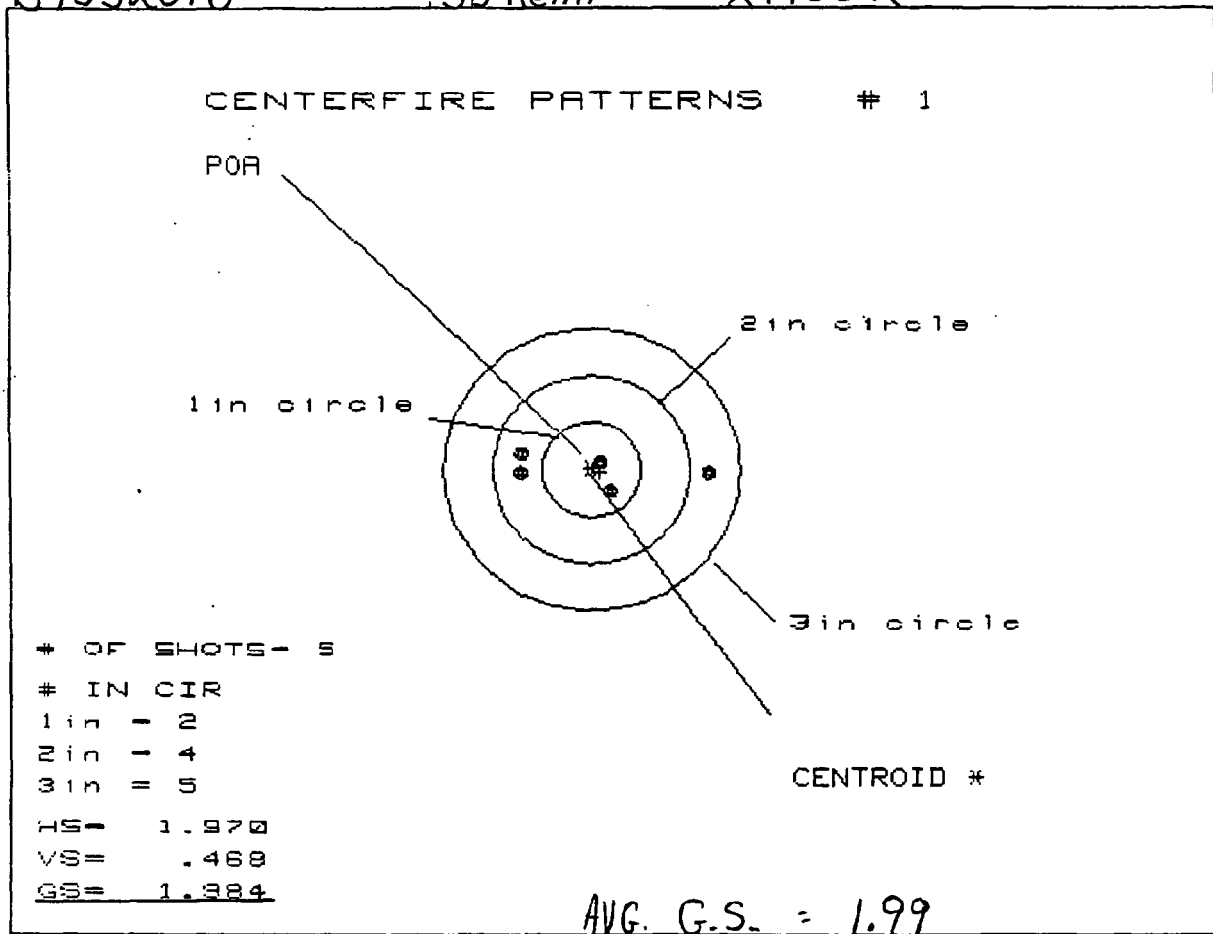


PATTERN #	3	4	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	.818	.867	.688
MINIMUM X	-.741	-.536	-.455
MAXIMUM Y	.469	.386	.372
MINIMUM Y	-.331	-.282	-.296
CENTROID X	.214	.009	.188
CENTROID Y	-.165	-.082	-.068
POA TO CENTROID in.	.270	.082	.200
MIN RADIUS	.481	.283	.439
MEAN RADIUS	.667	.530	.550
MAX RADIUS	.883	.912	.749
HORIZONTAL SPREAD	1.559	1.403	1.143
VERTICAL SPREAD	.800	.668	.668
EXTREME SPREAD	1.603	1.424	1.164
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	5		

B7532078

.35 Rem.

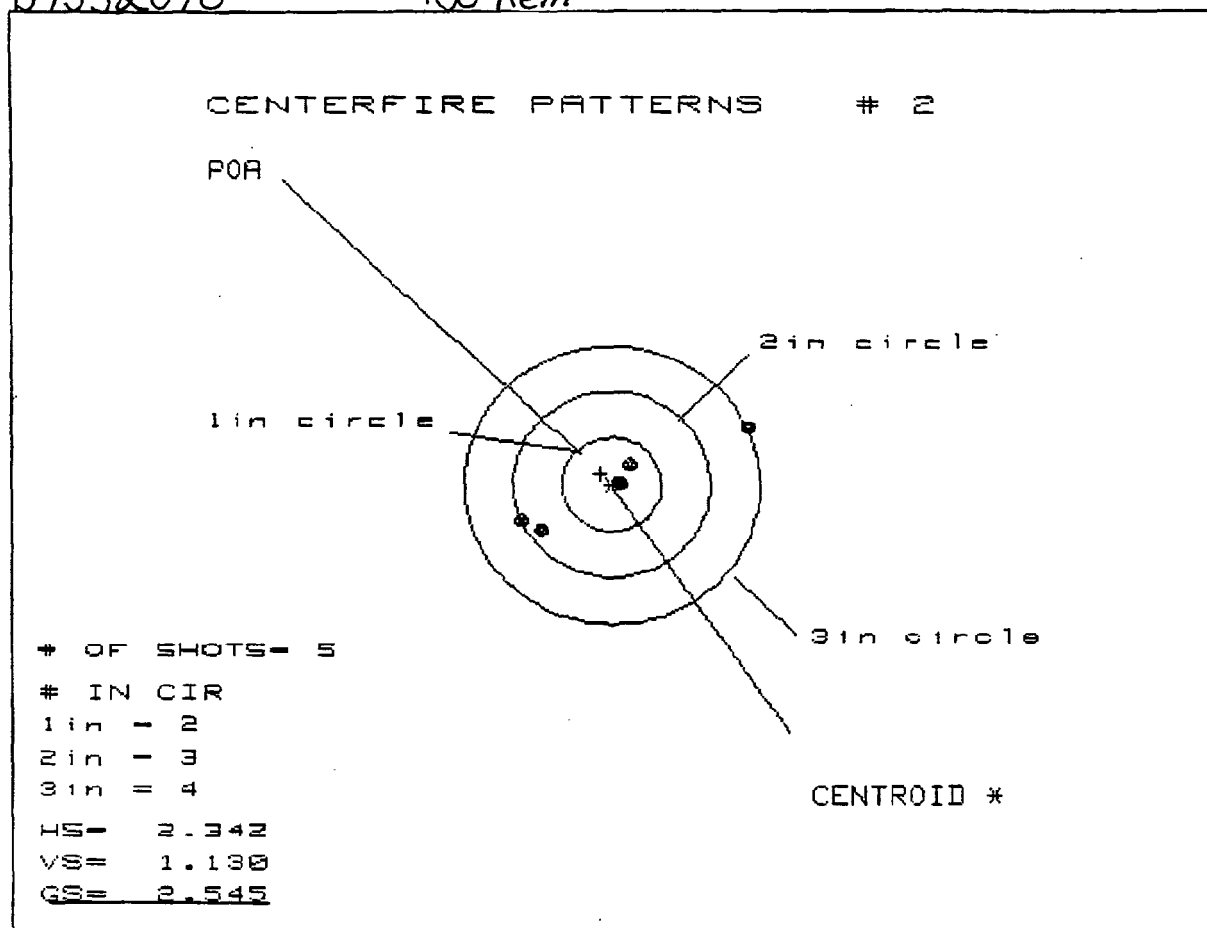
XP100R



PATTERN #	1	2	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	1.230	.460	.316
MINIMUM X	-.740	-.432	-.573
MAXIMUM Y	.219	.215	.140
MINIMUM Y	-.249	-.253	-.181
CENTROID X	-.086	-.394	-.250
CENTROID Y	.027	.031	-.041
POA TO CENTROID in.	.090	.395	.253
MIN RADIUS	.119	.407	.293
MEAN RADIUS	.630	.461	.411
MAX RADIUS	1.230	.525	.575
HORIZONTAL SPREAD	1.970	.892	.889
VERTICAL SPREAD	.468	.468	.321
EXTREME SPREAD	1.984	1.007	.917
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		4	
NUMBER IN THREE INCH CIRCLE =		5	

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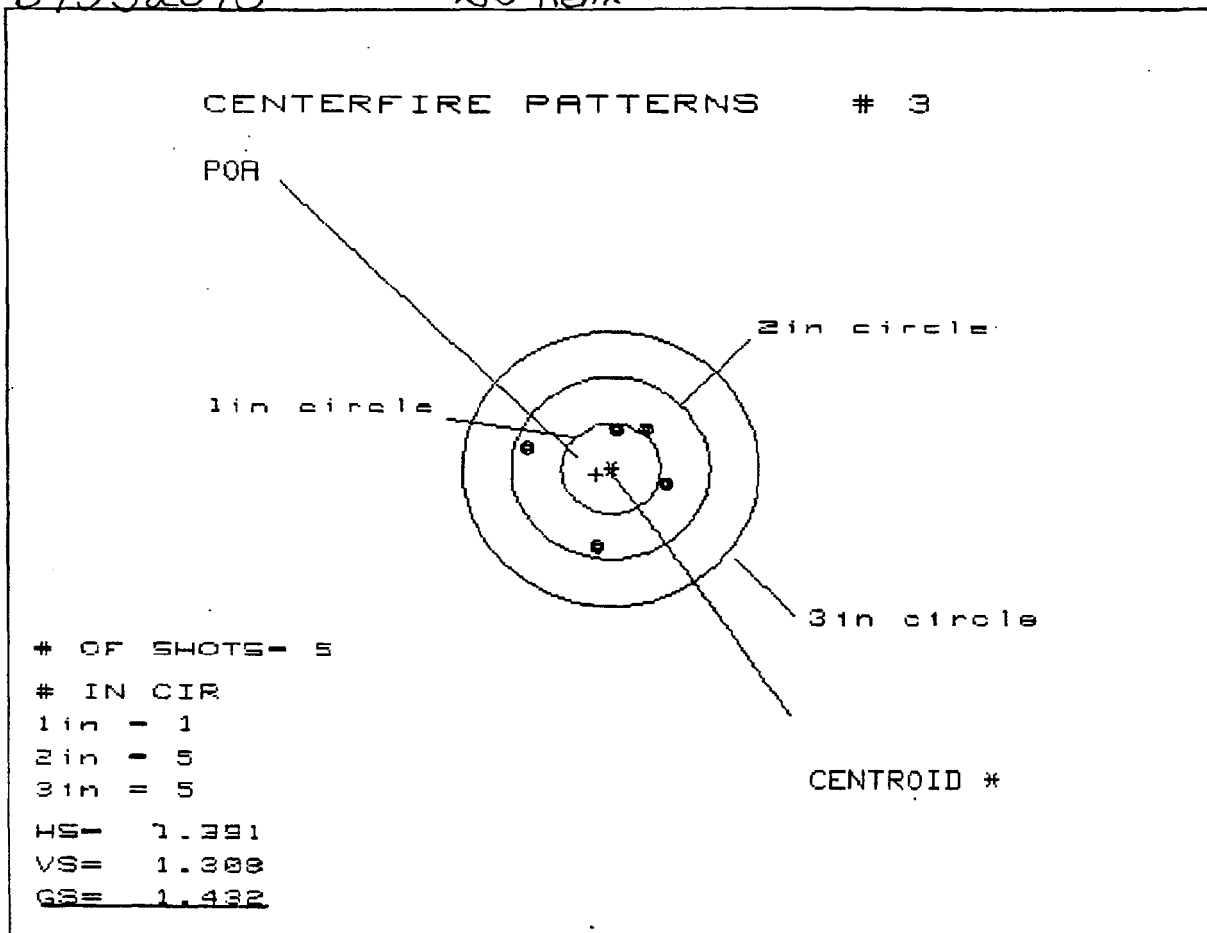
.35 Rem



PATTERN #	1	2	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	1.392	.513	.312
MINIMUM X	-.950	-.602	-.531
MAXIMUM Y	.640	.391	.327
MINIMUM Y	-.490	-.330	-.394
CENTROID X	.117	-.231	-.030
CENTROID Y	-.119	-.279	-.215
POA TO CENTROID in.	.167	.363	.217
MIN RADIUS	.076	.439	.229
MEAN RADIUS	.749	.546	.447
MAX RADIUS	1.532	.645	.661
HORIZONTAL SPREAD	2.342	1.115	.843
VERTICAL SPREAD	1.130	.721	.721
EXTREME SPREAD	2.545	1.260	1.109
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		3	
NUMBER IN THREE INCH CIRCLE =		4	

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.35 Rem.

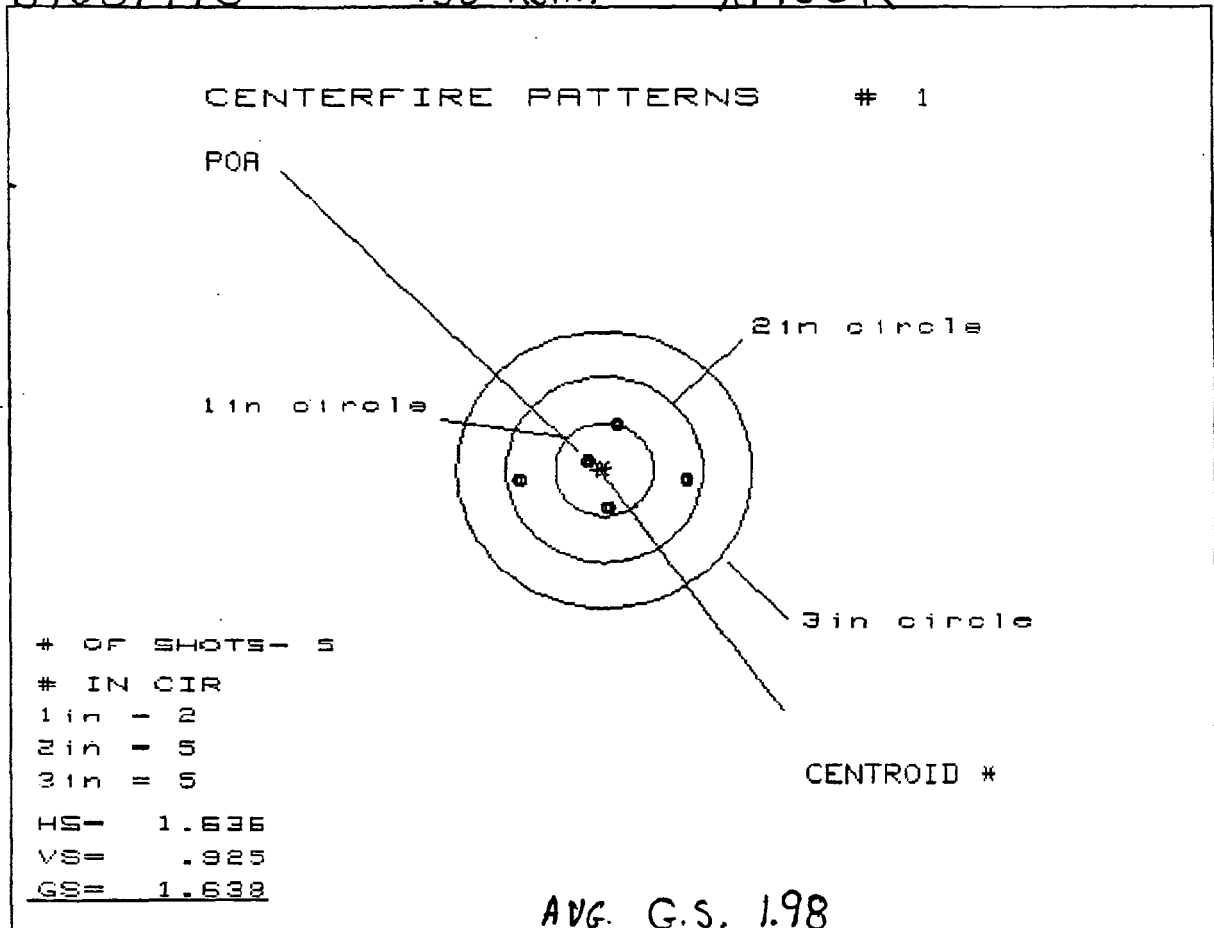


PATTERN #	3	4	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	.536	.503	.207
MINIMUM X	-.855	-.888	-.264
MAXIMUM Y	.403	.177	.177
MINIMUM Y	-.905	-.339	-.339
CENTROID X	.149	.182	.478
CENTROID Y	.062	.288	.288
POA TO CENTROID in.	.161	.341	.558
MIN RADIUS	.408	.180	.172
MEAN RADIUS	.660	.516	.295
MAX RADIUS	.914	.888	.397
HORIZONTAL SPREAD	1.391	1.391	.471
VERTICAL SPREAD	1.308	.516	.516
EXTREME SPREAD	1.432	1.432	.699
NUMBER IN ONE INCH CIRCLE	= 1		
NUMBER IN TWO INCH CIRCLE	= 5		
NUMBER IN THREE INCH CIRCLE	= 5		

B7531998

.35 Rem.

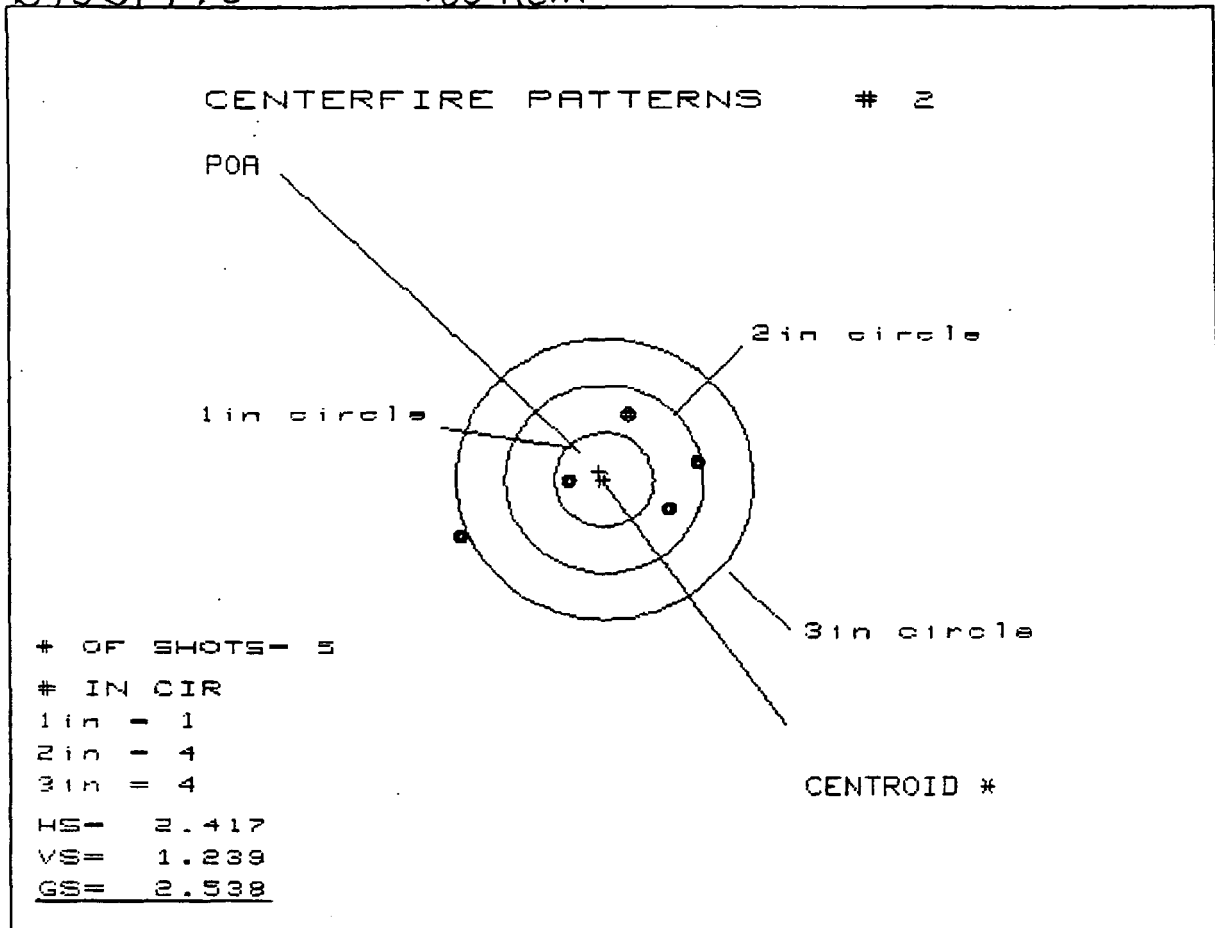
XP100R



PATTERN #	1	2	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	.803	.595	.150
MINIMUM X	-.833	-.408	-.210
MAXIMUM Y	.534	.498	.463
MINIMUM Y	-.391	-.427	-.462
CENTROID X	.066	.274	.076
CENTROID Y	.004	.040	.075
POA TO CENTROID in.	.066	.277	.107
MIN RADIUS	.212	.409	.210
MEAN RADIUS	.564	.491	.387
MAX RADIUS	.845	.604	.487
HORIZONTAL SPREAD	1.636	1.003	.360
VERTICAL SPREAD	.925	.925	.925
EXTREME SPREAD	1.638	1.012	.929
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	5		

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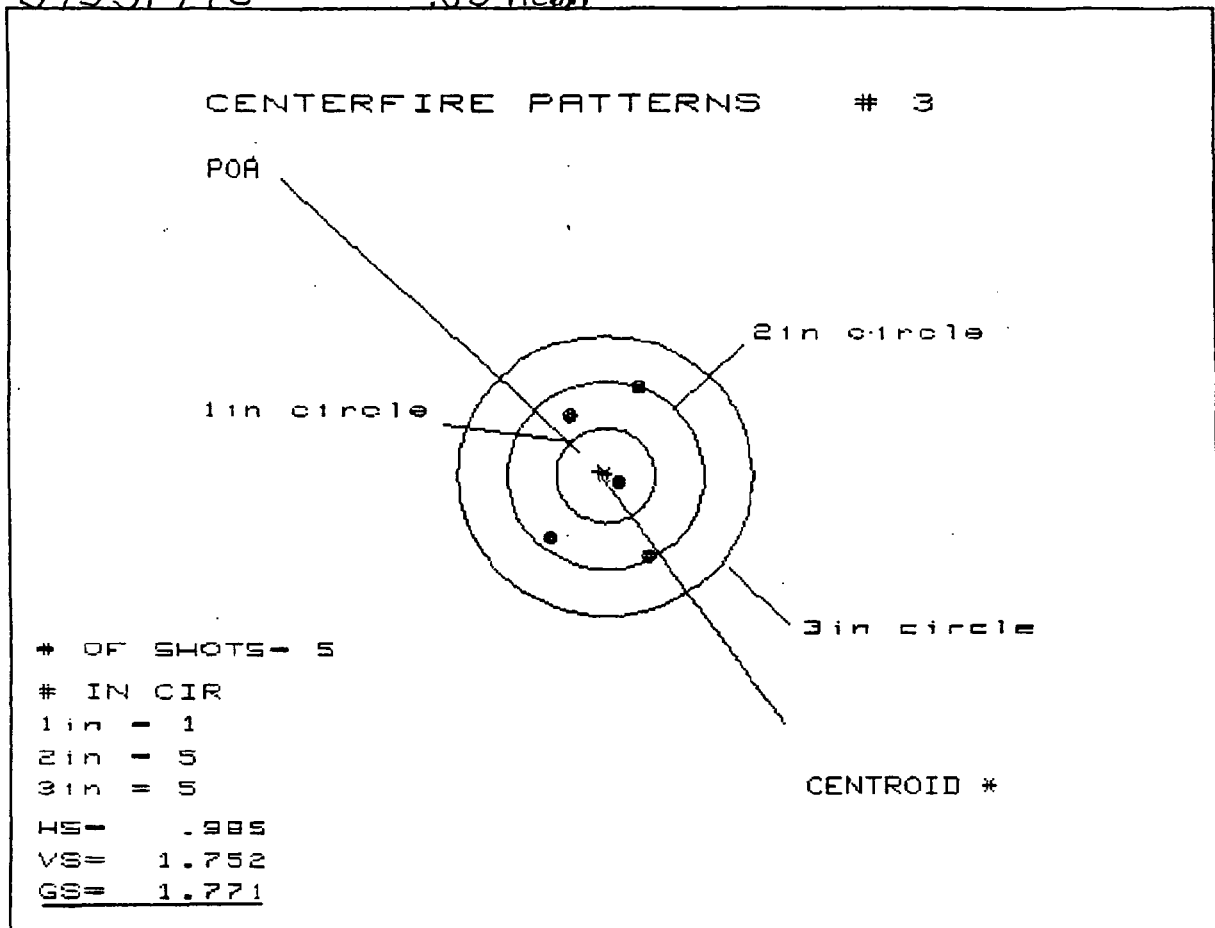
.35 Rem



PATTERN #	2	4	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	.918	.543	.446
MINIMUM X	-1.499	-.724	-.543
MAXIMUM Y	.656	.510	.525
MINIMUM Y	-.583	-.434	-.420
CENTROID X	.054	.429	.248
CENTROID Y	-.093	.052	.038
POA TO CENTROID in.	.108	.432	.251
MIN RADIUS	.350	.509	.534
MEAN RADIUS	.863	.576	.567
MAX RADIUS	1.608	.734	.612
HORIZONTAL SPREAD	2.417	1.267	.989
VERTICAL SPREAD	1.239	.945	.945
EXTREME SPREAD	2.538	1.278	1.038
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	4		

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.35 Rem



PATTERN #	3	4	3
SHOTS (BEST OF)	5	4	3
MAXIMUM X	.425	.511	.373
MINIMUM X	-.560	-.474	-.303
MAXIMUM Y	.898	.896	.686
MINIMUM Y	-.854	-.629	-.610
CENTROID X	.067	-.019	-.190
CENTROID Y	-.038	-.263	-.053
POA TO CENTROID in.	.077	.263	.197
MIN RADIUS	.147	.243	.380
MEAN RADIUS	.729	.650	.584
MAX RADIUS	.961	.927	.689
HORIZONTAL SPREAD	.985	.985	.676
VERTICAL SPREAD	1.752	1.525	1.296
EXTREME SPREAD	1.771	1.700	1.317
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	5		