

MEASUREMENT LAB TEST RESULTS

REQUESTER: R. S. Murphy TESTER: P. Conant DATE: 09/06/85
REPORT NO.: 852482 WORK ORDER NO.: C-9054-315
TEST TYPE: Developmental, Design Change.

FIREARM STAT'S : MODEL: 700 CAL or GAUGE: 7MM REM EXP
BARREL TYPE: _____ PROOFED: YES * NO _____

REASON FOR TEST : To shoot two M/700 7MM REM EXP rifles for accuracy. Five -
three shot groups with each of the guns is required using ammo lot # D-6721.
This ammo had been qualified prior to testing.

EQUIPMENT REQUIRED : To M/700 rifles Ser# A6879934 and A6874599, 12X scope.

TEST PROCEDURE : The rifles were shot for accuracy as required with gun
serial number A6879934 and gun serial number A6874599 shot by Paul Conant.

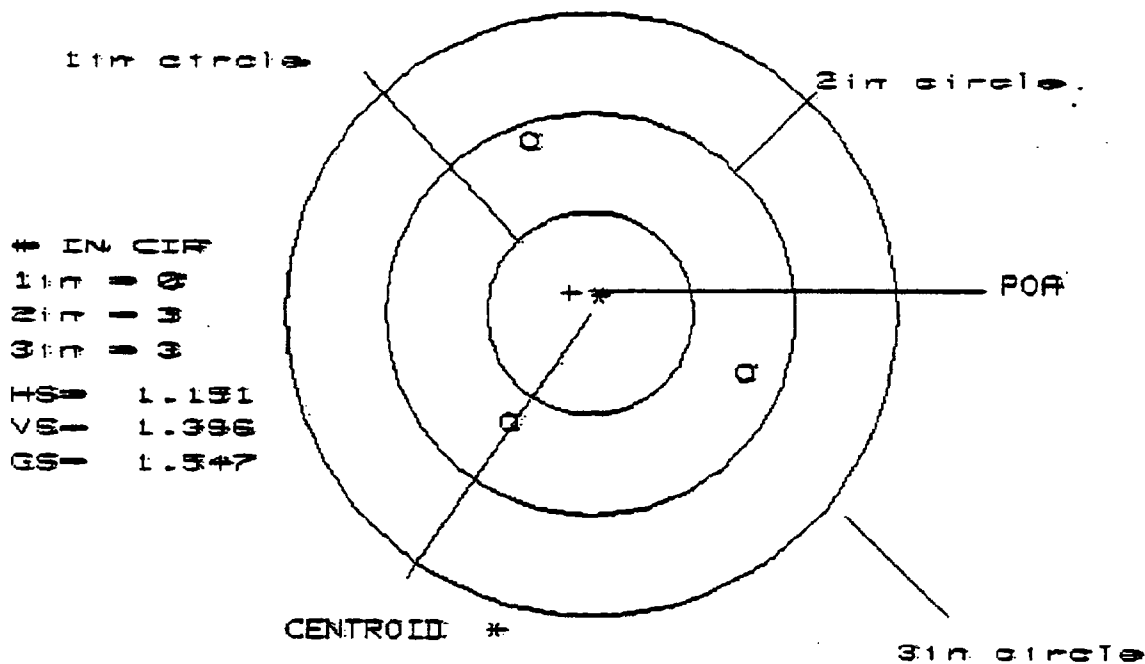
TEST RESULTS : The averages of the extreme spread for three shot groups is
listed below:

Ser # A6879934	3 shot - 1.510 inches
Ser # A6874599	3 shot - 1.042 inches

* Group results and graphics accompany this report.

Ser # A6879934

CENTERFIRE PATTERNS # 1



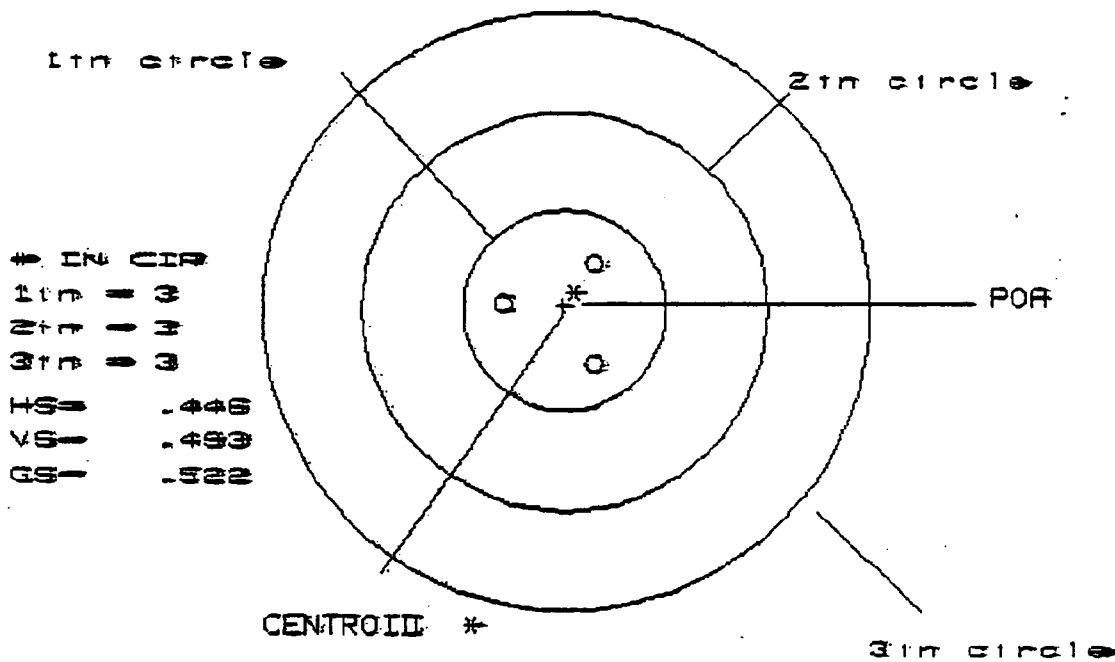
PATTERN: # 1

NUMBER OF SHOTS	=	3
MAXIMUM X & Y	=	.833 - .318
MINIMUM X & Y	=	.733 - .663
CENTROID X & Y	=	.898 - .118
POA TO CENTROID RAD	=	.1471
MIN RADIUS	=	.6923
MEAN RADIUS	=	.7944
MAX RADIUS	=	.9018
HORIZONTAL SPREAD	=	1.1518
VERTICAL SPREAD	=	1.3968
EXTREME SPREAD	=	1.5467

NUMBER IN ONE INCH CIRCLE	=	0
NUMBER IN TWO INCH CIRCLE	=	3
NUMBER IN THREE INCH CIRCLE	=	3

Ser # A6879934

CENTERFIRE PATTERNS # 2



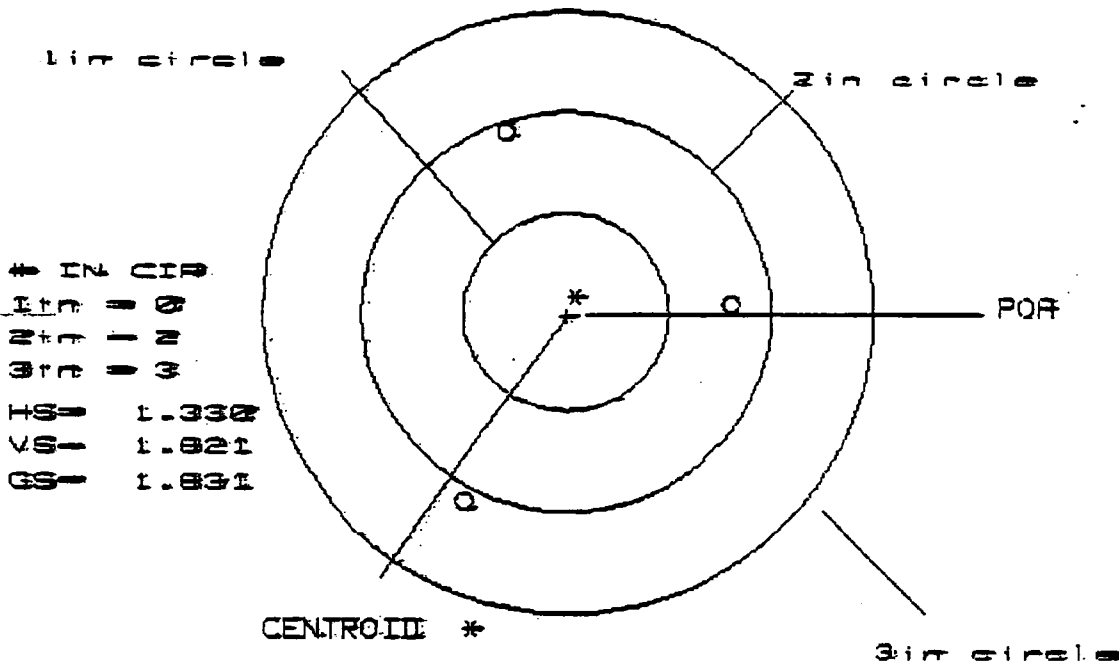
PATTERN # 2

NUMBER OF SHOTS	=	3	
MAXIMUM X & Y	=	.161	-.285
MINIMUM X & Y	=	-.198	-.298
CENTROID X & Y	=	.006	-.031
POA TO CENTROID RAD	=	.0320	
MIN RADIUS	=	.2766	
MEAN RADIUS	=	.2890	
MAX RADIUS	=	.2970	
HORIZONTAL SPREAD	=	.4460	
VERTICAL SPREAD	=	.4930	
EXTREME SPREAD	=	.5215	

NUMBER IN ONE INCH CIRCLE	=	3
NUMBER IN TWO INCH CIRCLE	=	3
NUMBER IN THREE INCH CIRCLE	=	3

SER # A6879934

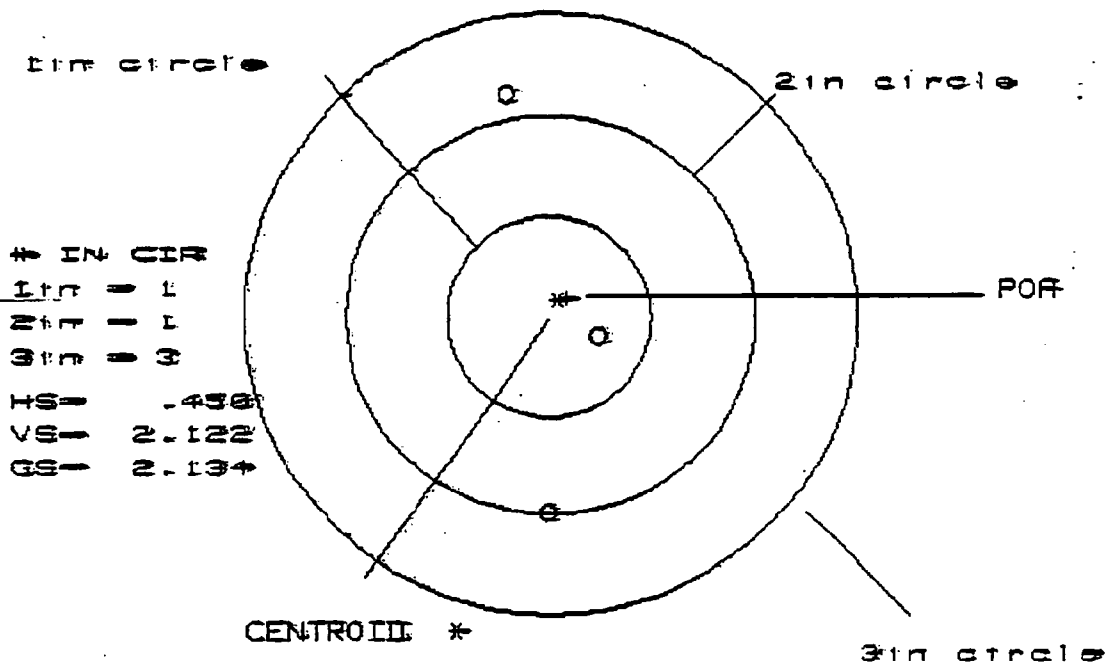
CENTERFIRE PATTERNS # 3



PATTERN #	3		
NUMBER OF SHOTS	3		
MAXIMUM X & Y	.822	-.508	
MINIMUM X & Y	.888	-.933	
CENTROID X & Y	-.002	-.002	
POA TO CENTROID RAD	.0033		
MIN RADIUS	.8253		
MEAN RADIUS	.9434		
MAX RADIUS	1.0592		
HORIZONTAL SPREAD	1.3300		
VERTICAL SPREAD	1.8210		
EXTREME SPREAD	1.8306		
NUMBER IN ONE INCH CIRCLE	=	0	
NUMBER IN TWO INCH CIRCLE	=	2	
NUMBER IN THREE INCH CIRCLE	=	3	

ser # 176879987

CENTERFIRE PATTERNS # 4



PATTERN # 4

NUMBER OF SHOTS	=	3	
MAXIMUM X & Y	=	.133	-.317
MINIMUM X & Y	=	1.006	-1.116
CENTROID X & Y	=	-.091	-.106
POF TO CENTROID RAD	=	.1397	
MIN RADIUS	=	.2461	
MEAN RADIUS	=	.7970	
MAX RADIUS	=	1.1347	
HORIZONTAL SPREAD	=	.4500	
VERTICAL SPREAD	=	2.1220	
EXTREME SPREAD	=	2.1342	
NUMBER IN ONE INCH CIRCLE	=		1
NUMBER IN TWO INCH CIRCLE	=		1
NUMBER IN THREE INCH CIRCLE	=		3

SER # A6879934

CENTERFIRE PATTERNS # 5

1in circle

2in circle

IN CIRC

1in = 1

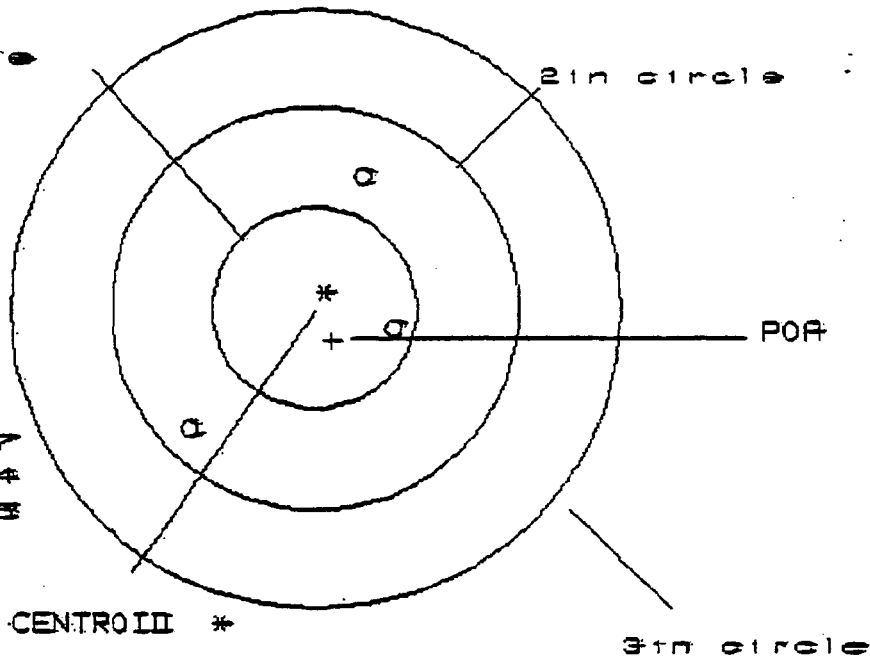
2in = 3

3in = 3

HS = 1.037

VS = 1.244

GS = 1.515



POA

CENTROID *

3in circle

PATTERN #

1

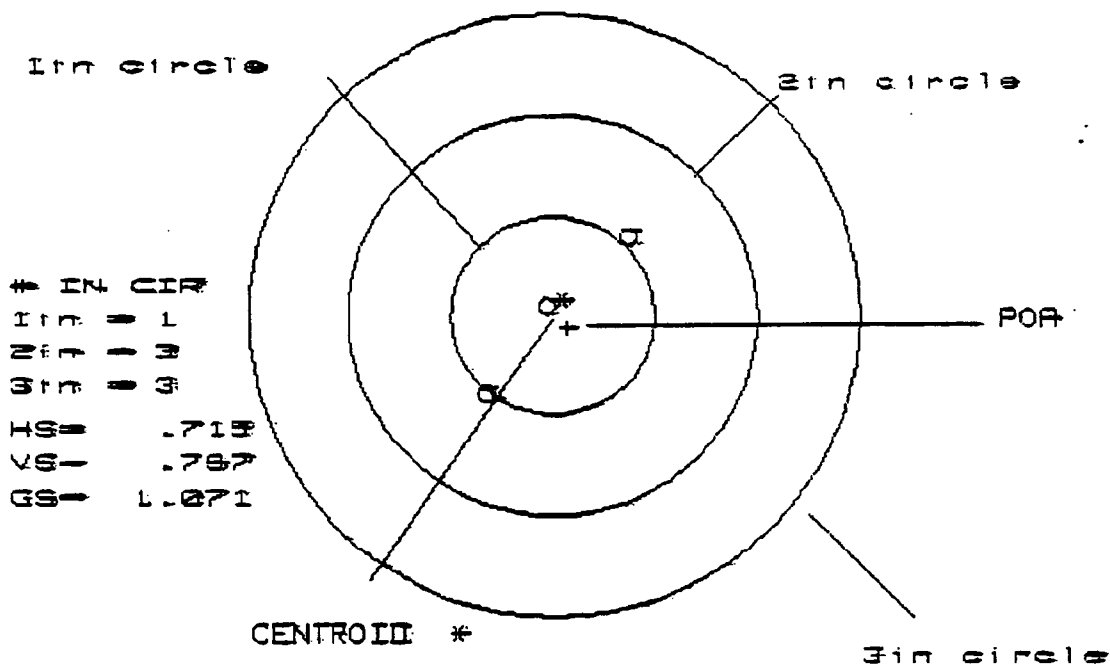
5

NUMBER OF SHOTS	=	3	
MAXIMUM X & Y	=	.317	-.720
MINIMUM X & Y	=	.813	-.429
CENTROID X & Y	=	-.086	.147
POA TO CENTROID RAD	=	.1706	
MIN RADIUS	=	.4132	
MEAN RADIUS	=	.6588	
MAX RADIUS	=	.8568	
HORIZONTAL SPREAD	=	1.0370	
VERTICAL SPREAD	=	1.2440	
EXTREME SPREAD	=	1.5152	

NUMBER IN ONE INCH CIRCLE	=	1
NUMBER IN TWO INCH CIRCLE	=	3
NUMBER IN THREE INCH CIRCLE	=	3

5er # A6874599

CENTERFIRE PATTERNS # 1

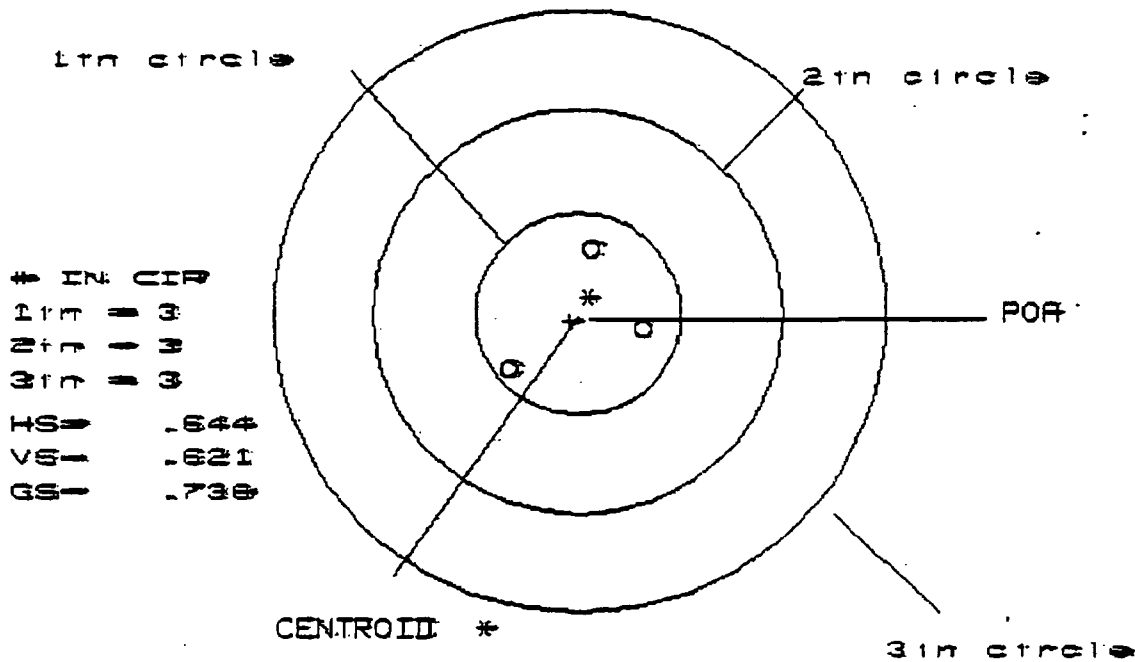


PATTERN # 1

NUMBER OF SHOTS	=	3	
MAXIMUM X & Y	=	.296	-.419
MINIMUM X & Y	=	.428	-.369
CENTROID X & Y	=	-.873	.049
POA TO CENTROID RAD	=	.8882	
MIN RADIUS	=	.0456	
MEAN RADIUS	=	.3724	
MAX RADIUS	=	.5424	
HORIZONTAL SPREAD	=	.7158	
VERTICAL SPREAD	=	.7978	
EXTREME SPREAD	=	1.0787	
NUMBER IN ONE INCH CIRCLE	=	1	
NUMBER IN TWO INCH CIRCLE	=	3	
NUMBER IN THREE INCH CIRCLE	=	3	

Ser# A6874599

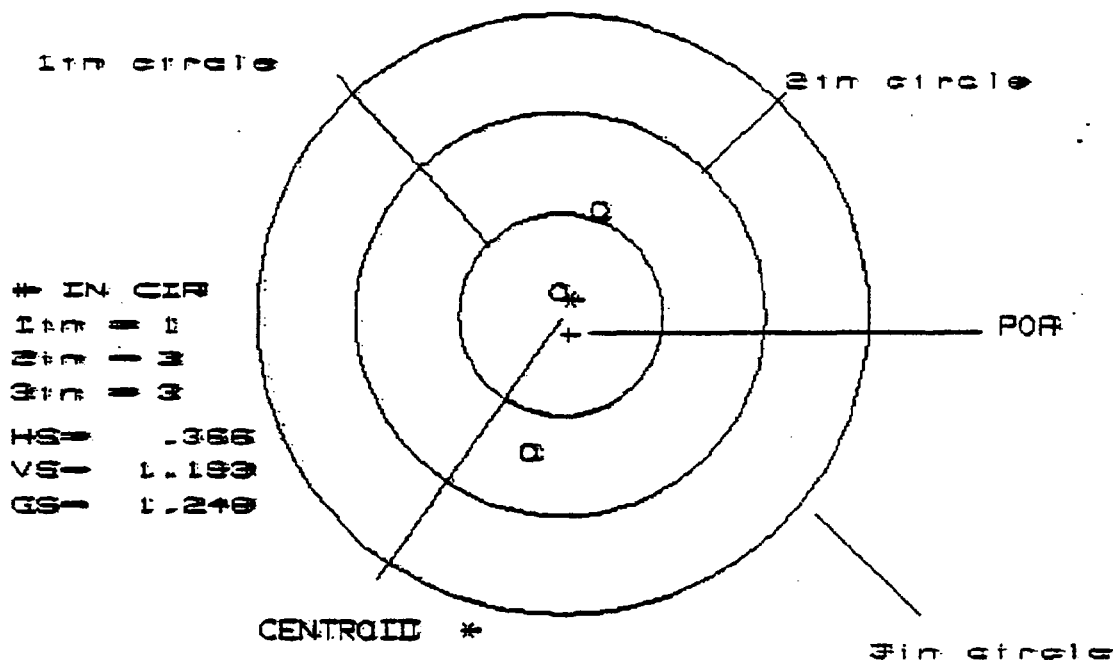
CENTERFIRE PATTERNS # 2



PATTERN #	=		
NUMBER OF SHOTS	=	3	
MAXIMUM X & Y	=	.336	-.308
MINIMUM X & Y	=	.371	-.250
CENTROID X & Y	=	.039	.025
POB TO CENTROID RAD	=	.0464	
MIN RADIUS	=	.3052	
MEAN RADIUS	=	.3660	
MAX RADIUS	=	.4428	
HORIZONTAL SPREAD	=	.6440	
VERTICAL SPREAD	=	.6210	
EXTREME SPREAD	=	.7376	
NUMBER IN ONE INCH CIRCLE	=		3
NUMBER IN TWO INCH CIRCLE	=		3
NUMBER IN THREE INCH CIRCLE	=		3

Sec # A 6874599

CENTERFIRE PATTERNS # 3

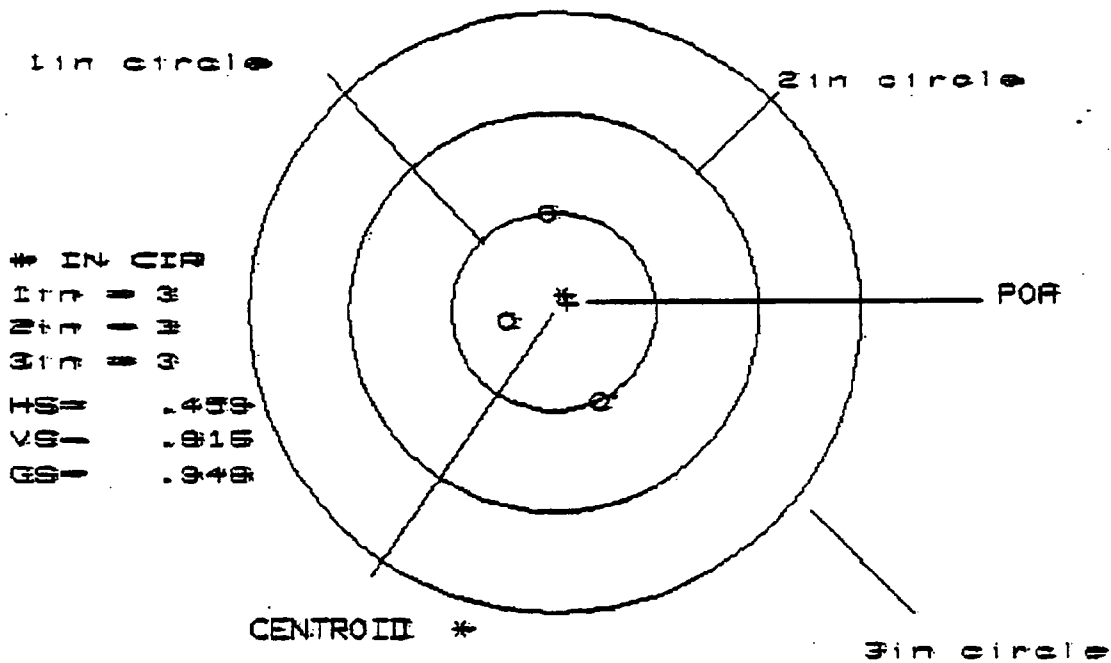


PATTERN # 3

NUMBER OF SHOTS	=	3	
MAXIMUM X & Y	=	.158	-.208
MINIMUM X & Y	=	.616	-.577
CENTROID X & Y	=	-.039	.082
POR TO CENTROID RAD	=	.0910	
MIN RADIUS	=	.1286	
MEAN RADIUS	=	.4594	
MAX RADIUS	=	.6807	
HORIZONTAL SPREAD	=	.3660	
VERTICAL SPREAD	=	1.1930	
EXTREME SPREAD	=	1.2479	
NUMBER IN ONE INCH CIRCLE	=		1
NUMBER IN TWO INCH CIRCLE	=		3
NUMBER IN THREE INCH CIRCLE	=		3

SCR # A6874599

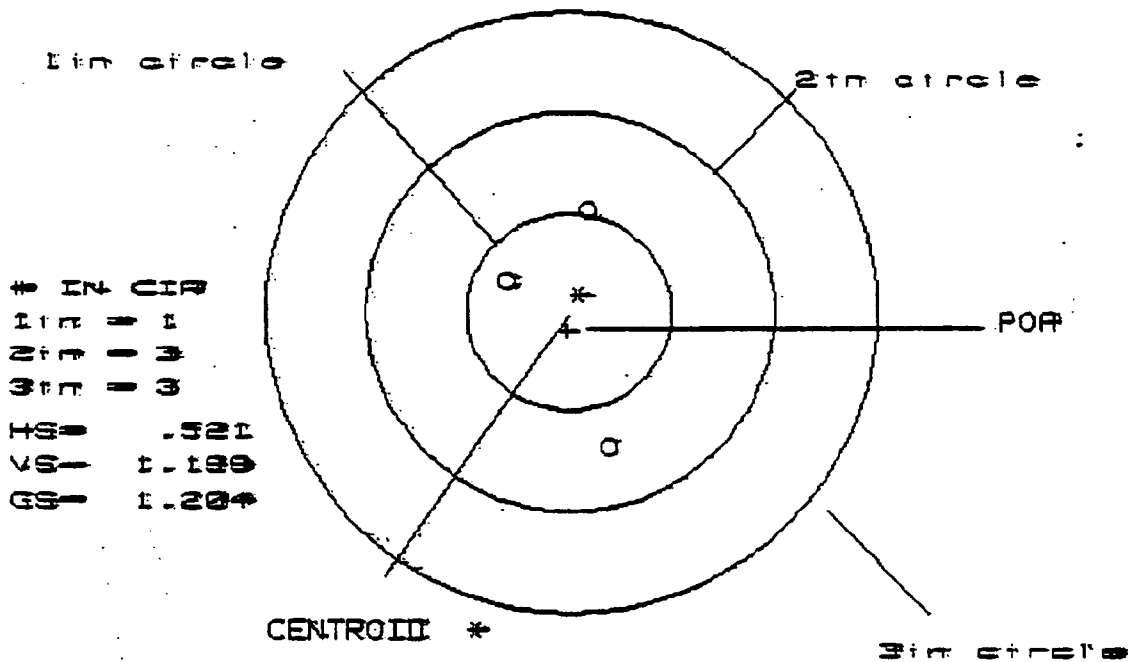
CENTERFIRE PATTERNS # 4



PATTERN #	=	4
NUMBER OF SHOTS	=	3
MAXIMUM X & Y	=	.168 - .291
MINIMUM X & Y	=	.438 - .477
CENTROID X & Y	=	-.067 -.058
POA TO CENTROID RAD	=	.8841
MIN RADIUS	=	.2320
MEAN RADIUS	=	.4026
MAX RADIUS	=	.4885
HORIZONTAL SPREAD	=	.4590
VERTICAL SPREAD	=	.9150
EXTREME SPREAD	=	.9478
NUMBER IN ONE INCH CIRCLE	=	3
NUMBER IN TWO INCH CIRCLE	=	3
NUMBER IN THREE INCH CIRCLE	=	3

SER # A6874599

CENTERFIRE PATTERNS # 5



PATTERN #	"	"	"
NUMBER OF SHOTS	"	3	
MAXIMUM X & Y	"	.217	-.384
MINIMUM X & Y	"	-.600	-.599
CENTROID X & Y	"	.007	.084
POA TO CENTROID RATIO	"	.0843	
MIN RADIUS	"	.3533	
MEAN RADIUS	"	.5312	
MAX RADIUS	"	.7143	
HORIZONTAL SPREAD	"	.5210	
VERTICAL SPREAD	"	1.1990	
EXTREME SPREAD	"	1.2039	
NUMBER IN ONE INCH CIRCLE	"	1	
NUMBER IN TWO INCH CIRCLE	"	3	
NUMBER IN THREE INCH CIRCLE	"	3	