

65594617

MODEL 700TM M24

Model **S&S**TM

Action

Barrel Length

Capacity

Order No. **5715**

*Includes 1 in chamber.

Remington

Serial Number: C6594617

Model: 700



RE00038552

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6594617.___0
FILE DATE AND TIME: 01/11/2002 03:43

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.032
The Average Y Centroid of the Five Target Set:	0.083
The Average Point of Impact of the Five Target Set:	0.089
The Average Mean Radius of the Five Target Set:	0.919
The Distance from POA to Centroid Target #1:	0.067
The Distance from Centroid Target #2 to Centroid Target #1:	0.141
The Distance from Centroid Target #3 to Centroid Target #1:	0.179
The Distance from Centroid Target #4 to Centroid Target #1:	0.071
The Distance from Centroid Target #5 to Centroid Target #1:	0.158

SERIAL NUMBER: C6594617. __0

TARGET NUMBER: 1

FILE DATE: 01/11/2002

FILE TIME: 03:43

POINT#	X	Y
1:	0.245	1.763
2:	0.286	0.803
3:	-0.091	0.543
4:	-0.571	0.071
5:	-0.654	-0.396
6:	0.566	-0.198
7:	0.324	-0.661
8:	-0.027	-0.727
9:	0.093	-1.192
10:	-0.057	0.650

X CENTROID: 0.011

Y CENTROID: 0.066

POA TO CENTROID: 0.067

HORZ SPREAD: 1.220

VERT SPREAD: 2.955

GROUP SPREAD: 2.959

MIN RADIUS: 0.488

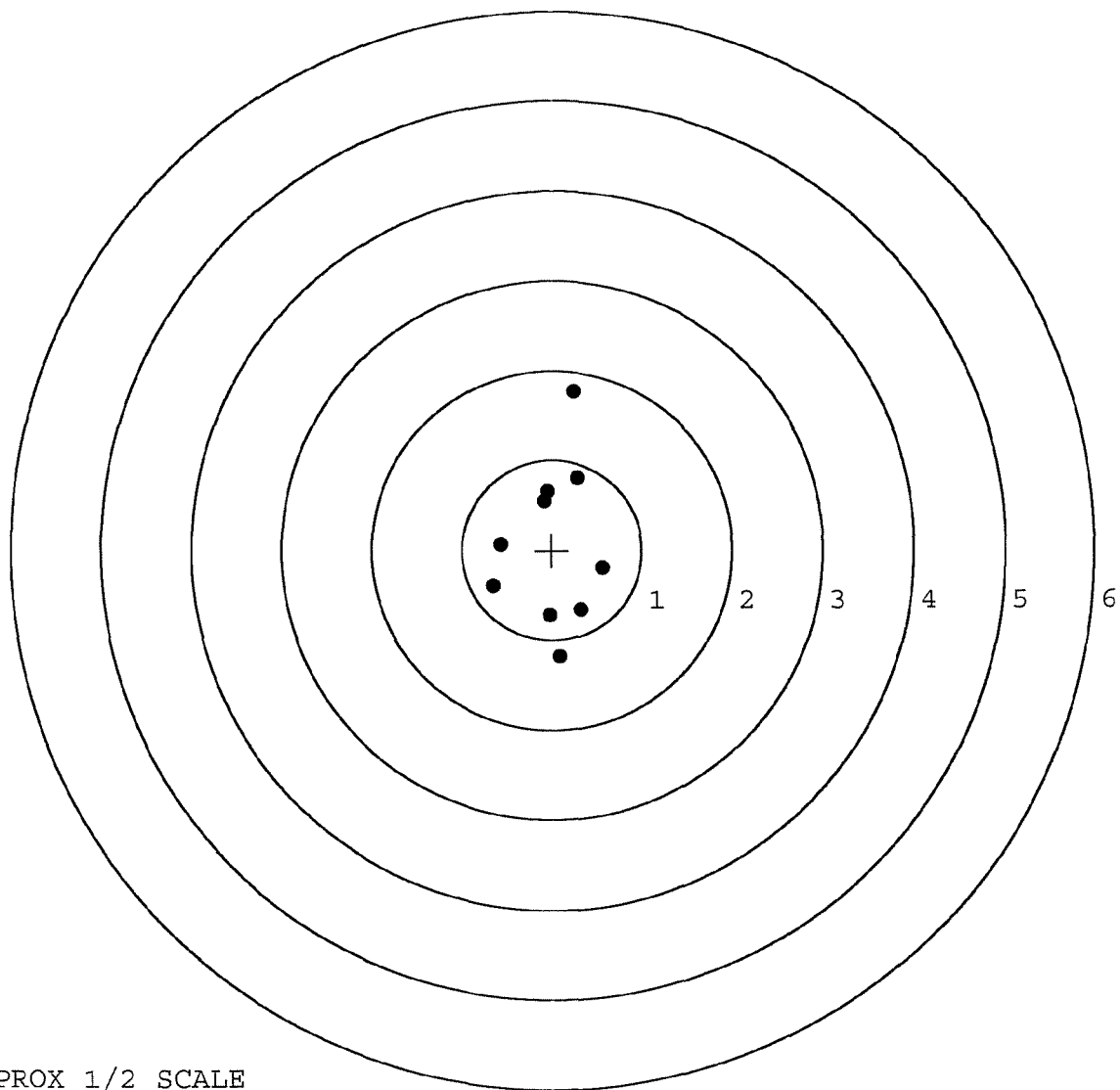
MAX RADIUS: 1.713

MEAN RADIUS: 0.843

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6594617. __0

TARGET NUMBER: 2

FILE DATE: 01/11/2002

FILE TIME: 03:43

POINT#	X	Y
1:	0.466	-1.906
2:	0.540	-0.850
3:	0.002	-2.510
4:	0.448	0.424
5:	0.154	0.651
6:	-0.548	0.274
7:	0.343	1.023
8:	-0.195	1.293
9:	-0.672	1.377
10:	-0.900	2.206

X CENTROID: -0.036

Y CENTROID: 0.198

POA TO CENTROID: 0.201

HORZ SPREAD: 1.440

VERT SPREAD: 4.716

GROUP SPREAD: 4.801

MIN RADIUS: 0.491

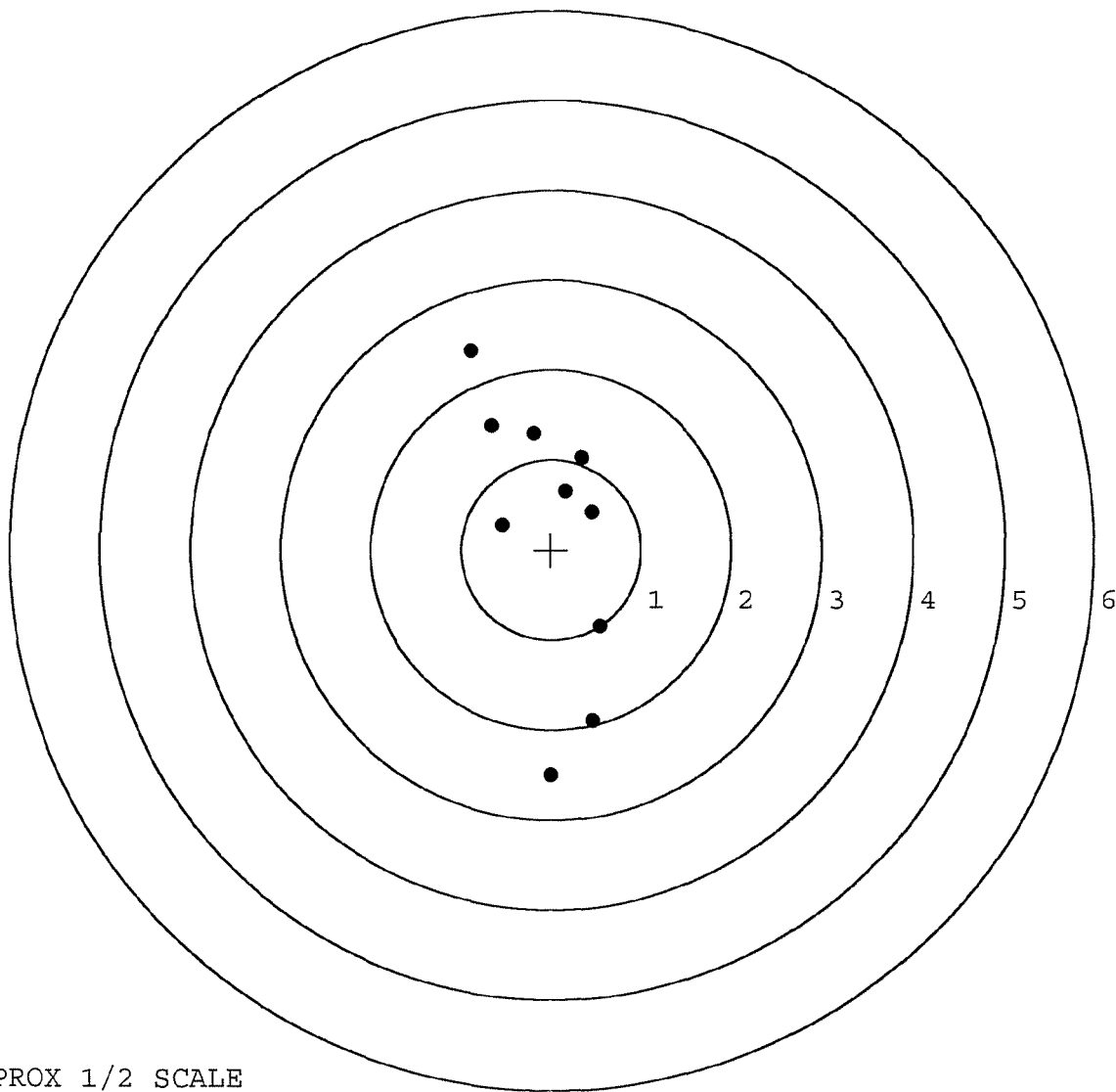
MAX RADIUS: 2.708

MEAN RADIUS: 1.315

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 4

in 3 IN DIAMETER: 7



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6594617. __0

TARGET NUMBER: 3

FILE DATE: 01/11/2002

FILE TIME: 03:43

POINT#	X	Y
1:	-0.360	1.367
2:	-0.363	1.009
3:	-0.361	0.696
4:	-0.916	0.838
5:	-0.597	0.302
6:	-0.714	-0.488
7:	0.341	0.679
8:	0.987	-0.368
9:	0.249	-1.149
10:	0.246	-1.433

X CENTROID: -0.149

Y CENTROID: 0.145

POA TO CENTROID: 0.208

HORZ SPREAD: 1.903

VERT SPREAD: 2.800

GROUP SPREAD: 2.865

MIN RADIUS: 0.475

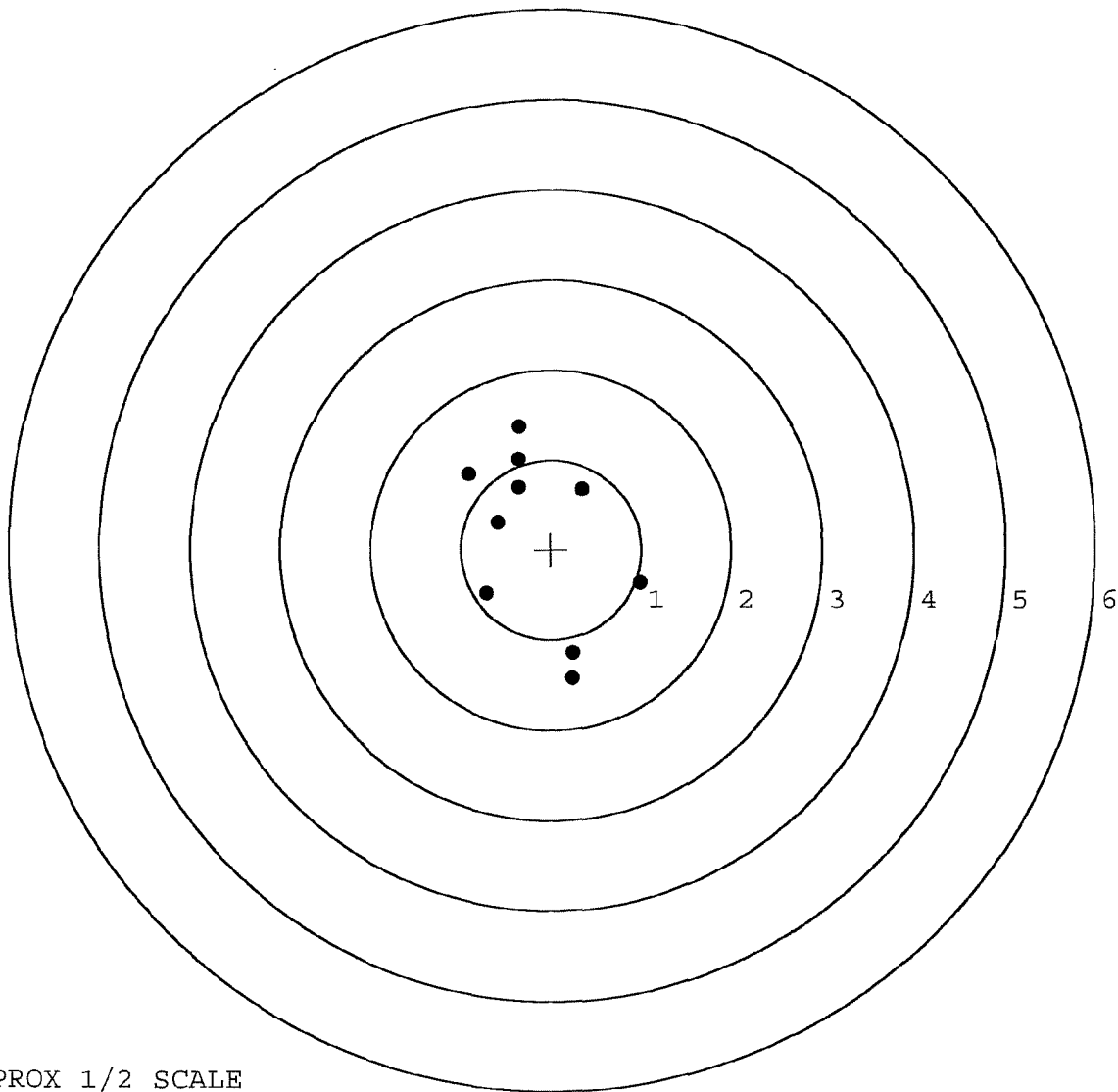
MAX RADIUS: 1.627

MEAN RADIUS: 1.003

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 5

in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6594617. __0

TARGET NUMBER: 4

FILE DATE: 01/11/2002

FILE TIME: 03:43

POINT#	X	Y
1:	-0.889	1.016
2:	-0.497	0.749
3:	-0.947	0.411
4:	0.364	0.773
5:	-0.770	-0.050
6:	-0.111	0.081
7:	0.310	-0.089
8:	0.561	-0.274
9:	0.157	-0.799
10:	1.261	-0.933

X CENTROID: -0.056

Y CENTROID: 0.089

POA TO CENTROID: 0.105

HORZ SPREAD: 2.208

VERT SPREAD: 1.949

GROUP SPREAD: 2.902

MIN RADIUS: 0.055

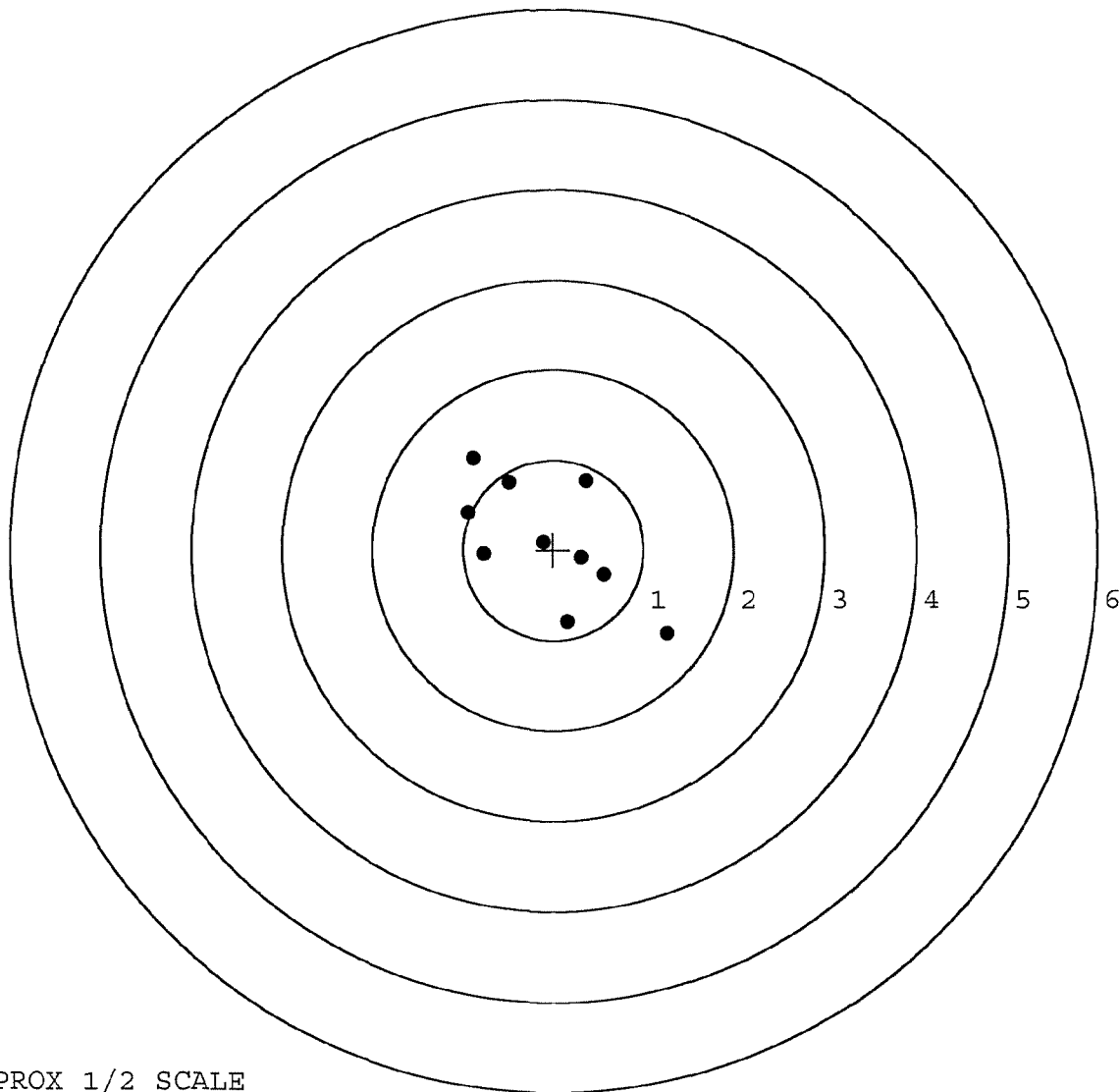
MAX RADIUS: 1.667

MEAN RADIUS: 0.828

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6594617. __0

TARGET NUMBER: 5

FILE DATE: 01/11/2002

FILE TIME: 03:43

POINT#	X	Y
1:	-1.598	0.184
2:	1.138	0.282
3:	0.485	0.158
4:	0.043	0.219
5:	0.563	-0.530
6:	0.265	-0.675
7:	0.050	-0.305
8:	0.238	-0.054
9:	-0.138	0.130
10:	-0.369	-0.228

X CENTROID: 0.068

Y CENTROID: -0.082

POA TO CENTROID: 0.106

HORZ SPREAD: 2.736

VERT SPREAD: 0.957

GROUP SPREAD: 2.738

MIN RADIUS: 0.173

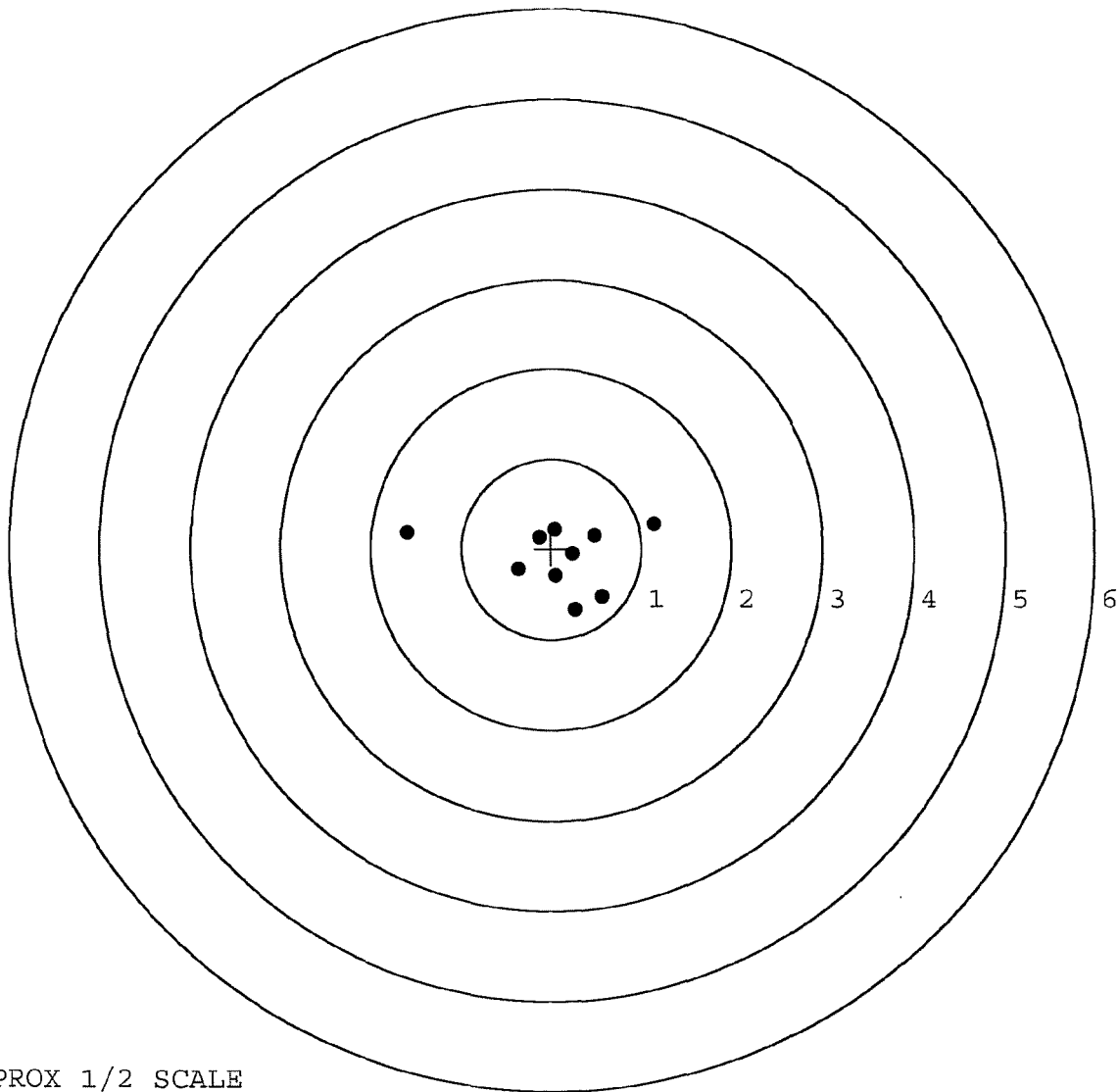
MAX RADIUS: 1.687

MEAN RADIUS: 0.605

IN 1 IN DIAMETER: 6

IN 2 IN DIAMETER: 8

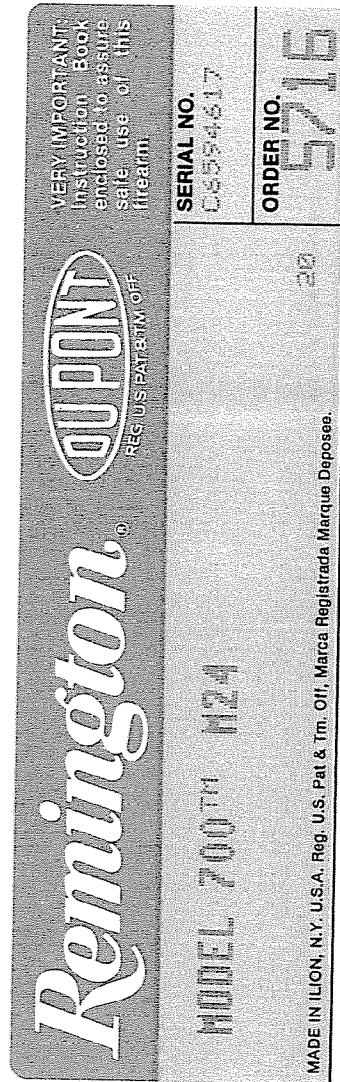
in 3 IN DIAMETER: 9



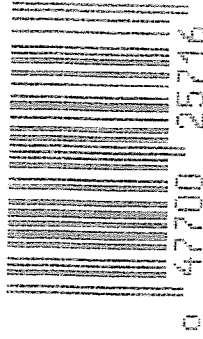
TARGET APPROX 1/2 SCALE

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-97-C-242

R & E NUMBER <u>R38552</u>			
SERIAL NUMBER <u>C6594617</u>			
LOG-IN DATE <u>1/2/02</u>			
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	1/2/02	RW
560 A	RE-BARREL AT CUSTOM SHOP	1-3-02	BWT
B	DRILL AND TAP	1-3-02	BWT
C	POLISH		
575	ASSEMBLE	1-4-02	AC
600	PROOF	1-4-02	AC
605	CHECK HEADSPACE	1-4-02	AC
610	DIS-ASSEMBLE GUN	1-4-02	AC
612	MAGNAFLUX		
615	ROLLMARK CALIBER	1-7-02	83
618	ROTO-BLAST	1/7	KO
620	APPLY COATINGS	1/7	H
625 A	FINAL ASSEMBLY	1-9-02	PH
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE		
D	SAFETY "OFF" FORCE		
E	FIRING PIN INDENT		
640	TARGET	1-11-02	AC
655	FINAL INSPECT	1-12-02	PH
660	PACK	1-12-02	DA
		SHIP DATE	
		QAR INSPECTION DATE	



UPC



0 47700 25746



5715 C6594617

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C 6594617

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		12/21/90	K.S.
600	Proof		12/21/90	K.S.
607	Check Headspace		12/21/90	K.S.
610	Dis-assemble Gun		12/21/90	K.S.
612	Magnaflux Barrel Action		1/9/91	KR
	Magnaflux Bolt		"	KR
615	Rollmark Caliber		"	g.B.
617	Drill and Tap Sight Holes	1 10 91		K.B.
618	Polish Barrel	1 10 91		w.B.
620	Apply Coatings (Barrel Action)		1/22/91	KS
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		2/6/91	KS
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		2/6/91	KS
	C) Inspect Ejector Hole for Chamfer		2/6/91	KS
	D) Oil Firing Pin Ass'y		2/6/91	KS
	E) Adjust Trigger Pull to Min Setting and Stake		2/8/91	g.B.

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	5	5			2/8/91	WB
	G) Safety Off Force	3 1/2	3 1/4	3 1/4			2/8/91	WB
	H) Trigger Pull Test & Retainability						2/8/91	KA
	I) Firing Pin Indent	.021	.0205	.0205			2/8/91	WB
	J) Assemble Stock						2/8/91	KA
	K) Assemble Swivel Studs						2-21-91	AC
	L) Attach Front and Rear Sight Assemblies						2/8/91	KA
	M) Iron Sight Alignment						2/8/91	KA
	N) Detach Front & Rear Sights & place in numbered container						2/8/91	KA
	O) Attach Scope to Rifle						2/8/91	KA
	P) Detach & Attach Scope 20 Times						2/8/91	KA
640	Gallery Target & Test						2-11-91	DH
	A) Time						2-11-91	DH
	B) Malfunctions						2-11-91	DH
	C) Pierced Primers						2-11-91	DH
	D) Optical Clarity of Scope						2-11-91	DH
645	Inspect for Live Ammo						2-11-91	DH
655	Final Inspection						2-21-91	AC
	A) Headspace							
	B) Trigger Pull	2.48	2.53	2.47	2.45	2.39	2/18/91	WB
	C) Function						2-21-91	AC
660	Pack						3/14/91	WB

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO. C6594617

DATE 2-8-91

TESTER JH

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.26	2.35	2.20	2.48	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.34	2.20	2.33	2.53	
PULL #3	2.36	2.26	2.36	2.47	
PULL #4	2.40	2.32	2.30	2.45	
PULL #5	2.36	2.33	2.22	2.39	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.36	3.35		
PULL #2	3.42	3.35		
PULL #3	3.36	3.30		
PULL #4	3.25	3.20		
PULL #5	3.38	3.35		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.17	4.25		4.26
PULL #2	4.26	4.34		4.38
PULL #3	4.41	4.14		4.38
PULL #4	4.36	4.18		4.14
PULL #5	4.29	4.14		4.22
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6594617
12 Feb 1991

CENTROIDAL DISTANCES

0 TO	1	.188215
1 TO	2	.0237065
1 TO	3	.372592
1 TO	4	.239435
1 TO	5	.546371

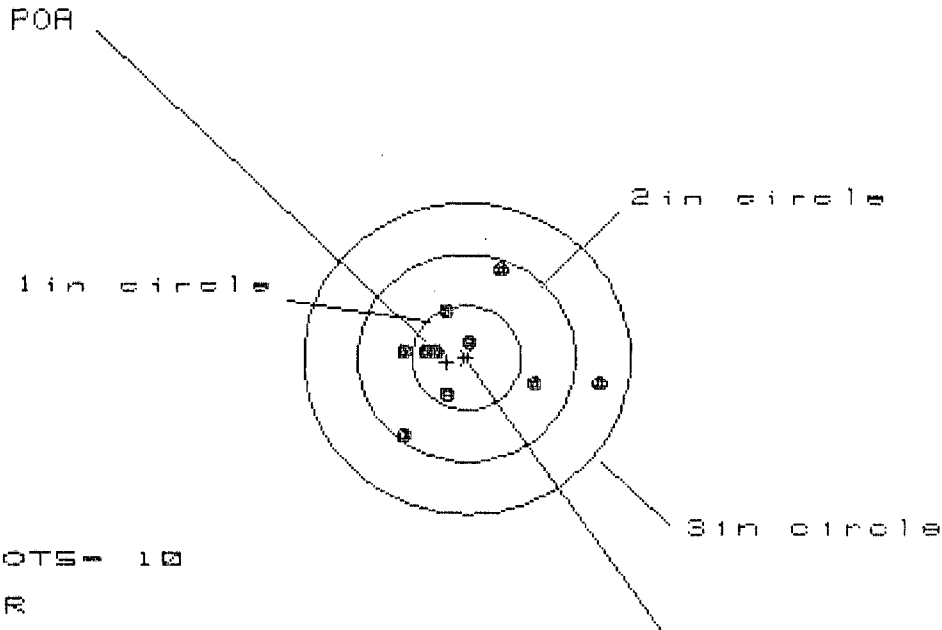
$\frac{3.2}{5.4}$ <----FOR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0184
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0196
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0268835
THE AMR FOR THIS RIFLE IS: .7608

12 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6594617

CENTERFIRE PATTERNS # 1



OF SHOTS = 10

IN CIR

1 in = 5

2 in = 9

3 in = 10

HS = 1.893

VS = 1.569

GS = 1.913

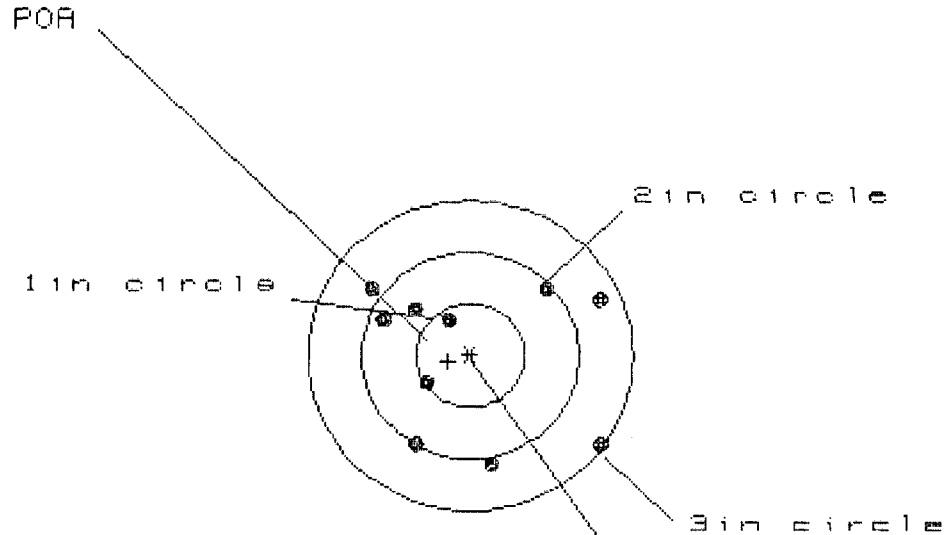
CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.263	.777	.727
MINIMUM X	-.630	-.489	-.539
MAXIMUM Y	.838	.813	.718
MINIMUM Y	-.731	-.756	-.495
CENTROID X	.183	.042	.092
CENTROID Y	.044	.069	.164
POA TO CENTROID in.	.188	.081	.188
MIN RADIUS	.164	.173	.138
MEAN RADIUS	.615	.504	.458
MAX RADIUS	1.284	.934	.827
HORIZONTAL SPREAD	1.893	1.266	1.266
VERTICAL SPREAD	1.569	1.569	1.213
EXTREME SPREAD	1.913	1.789	1.318
NUMBER IN ONE INCH CIRCLE =	5		
NUMBER IN TWO INCH CIRCLE =	9		
NUMBER IN THREE INCH CIRCLE =	10		

12 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6594817

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 6

3 in = 10

HS= 2.120

VS= 1.694

GS= 2.580

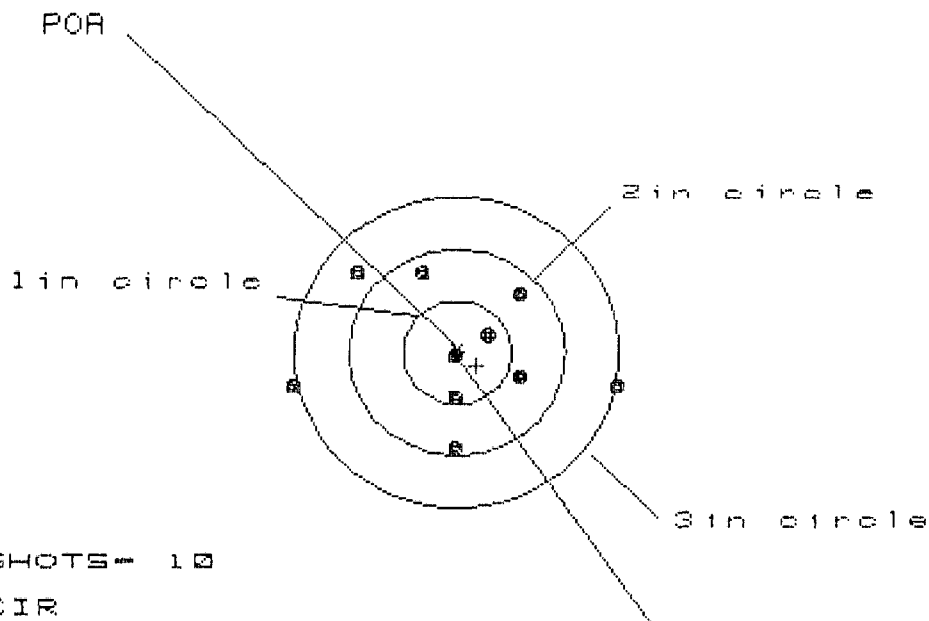
CENTROID *

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.216	1.351	.969
MINIMUM X	:	-.904	-.769	-.600
MAXIMUM Y	:	.670	.577	.631
MINIMUM Y	:	-1.023	-1.117	-1.063
CENTROID X	:	.204	.069	-.100
CENTROID Y	:	.055	.149	.095
POA TO CENTROID in.	:	.211	.165	.137
MIN RADIUS	:	.392	.249	.256
MEAN RADIUS	:	.921	.817	.708
MAX RADIUS	:	1.475	1.420	1.158
HORIZONTAL SPREAD	:	2.120	2.120	1.569
VERTICAL SPREAD	:	1.694	1.694	1.694
EXTREME SPREAD	:	2.580	2.199	1.970
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		10	

12 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6594617

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 3

2 in = 7

3 in = 8

HSI = 3.034

VS = 1.729

GS = 3.034

CENTROID *

PATTERN #	3
SHOTS (BEST OF)	10
MAXIMUM X	1.476
MINIMUM X	-1.558
MAXIMUM Y	.817
MINIMUM Y	-.912
CENTROID X	-.180
CENTROID Y	.128
POA TO CENTROID in.	.221
MIN RADIUS	.065
MEAN RADIUS	.836
MAX RADIUS	1.597
HORIZONTAL SPREAD	3.034
VERTICAL SPREAD	1.729
EXTREME SPREAD	3.034
NUMBER IN ONE INCH CIRCLE =	3
NUMBER IN TWO INCH CIRCLE =	7
NUMBER IN THREE INCH CIRCLE =	8

12 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6594617

CENTERFIRE PATTERNS # 4

POA

1in circle

2in circle

3in circle

OF SHOTS- 10

IN CIR

1in = 3

2in = 8

3in = 9

HS= 1.841

VS= 2.530

GS= 2.896

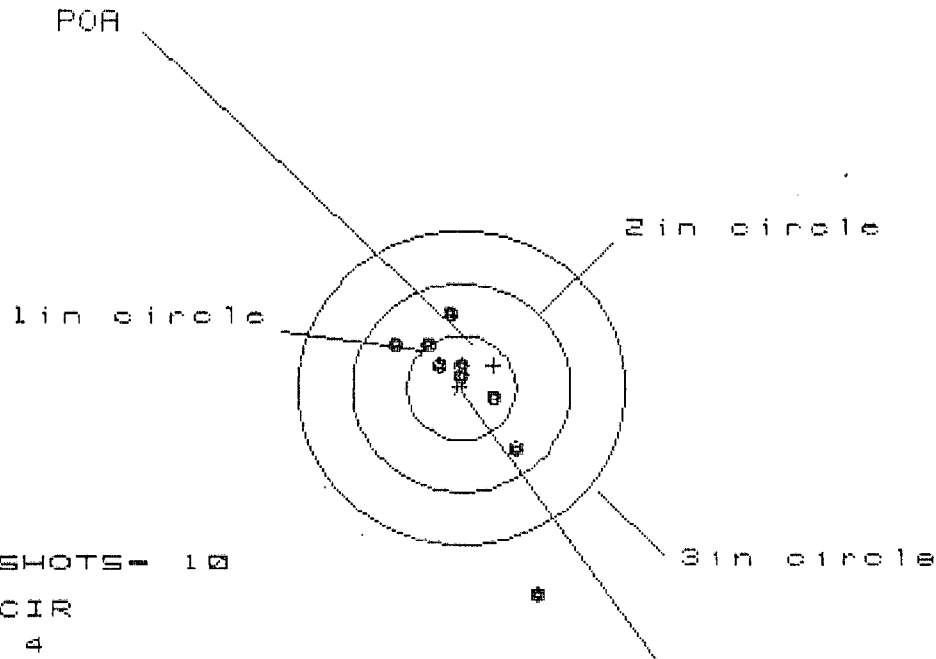
CENTROID *

PATTERN #	:	4	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.985	.591	.552
MINIMUM X	:	-.856	-.747	-.786
MAXIMUM Y	:	1.060	.896	.752
MINIMUM Y	:	-1.470	-.829	-.717
CENTROID X	:	-.002	-.111	-.072
CENTROID Y	:	-.108	.056	-.056
POA TO CENTROID in.	:	.108	.124	.091
MIN RADIUS	:	.345	.361	.368
MEAN RADIUS	:	.799	.684	.638
MAX RADIUS	:	1.770	.950	.933
HORIZONTAL SPREAD	:	1.841	1.338	1.338
VERTICAL SPREAD	:	2.530	1.725	1.469
EXTREME SPREAD	:	2.896	1.805	1.667
NUMBER IN ONE INCH CIRCLE =	:	3		
NUMBER IN TWO INCH CIRCLE =	:	8		
NUMBER IN THREE INCH CIRCLE =	:	9		

12 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6594617

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1in = 4

2in = 8

3in = 9

HS= 1.272

VS= 2.712

GS= 2.824

CENTROID #

PATTERN #	10	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.703	.544	.483
MINIMUM X	-.569	-.491	-.304
MAXIMUM Y	.706	.483	.510
MINIMUM Y	-2.006	-.771	-.744
CENTROID X	-.297	-.375	-.314
CENTROID Y	-.217	.006	-.021
POA TO CENTROID in.	.368	.375	.314
MIN RADIUS	.132	.106	.046
MEAN RADIUS	.633	.386	.364
MAX RADIUS	2.126	.944	.886
HORIZONTAL SPREAD	1.272	1.035	.787
VERTICAL SPREAD	2.712	1.254	1.254
EXTREME SPREAD	2.824	1.434	1.369
NUMBER IN ONE INCH CIRCLE =	4		
NUMBER IN TWO INCH CIRCLE =	9		
NUMBER IN THREE INCH CIRCLE =	9		