

C6225212

MODEL 700™ M24

Model 700 M24™

Action

Barrel Length

Capacity

Order No. 5716

*Includes 1 in chamber.



C6225212

Model: M24 SWS



RE00092886

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6225212.___0
FILE DATE AND TIME: 06/30/2005 09:04

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

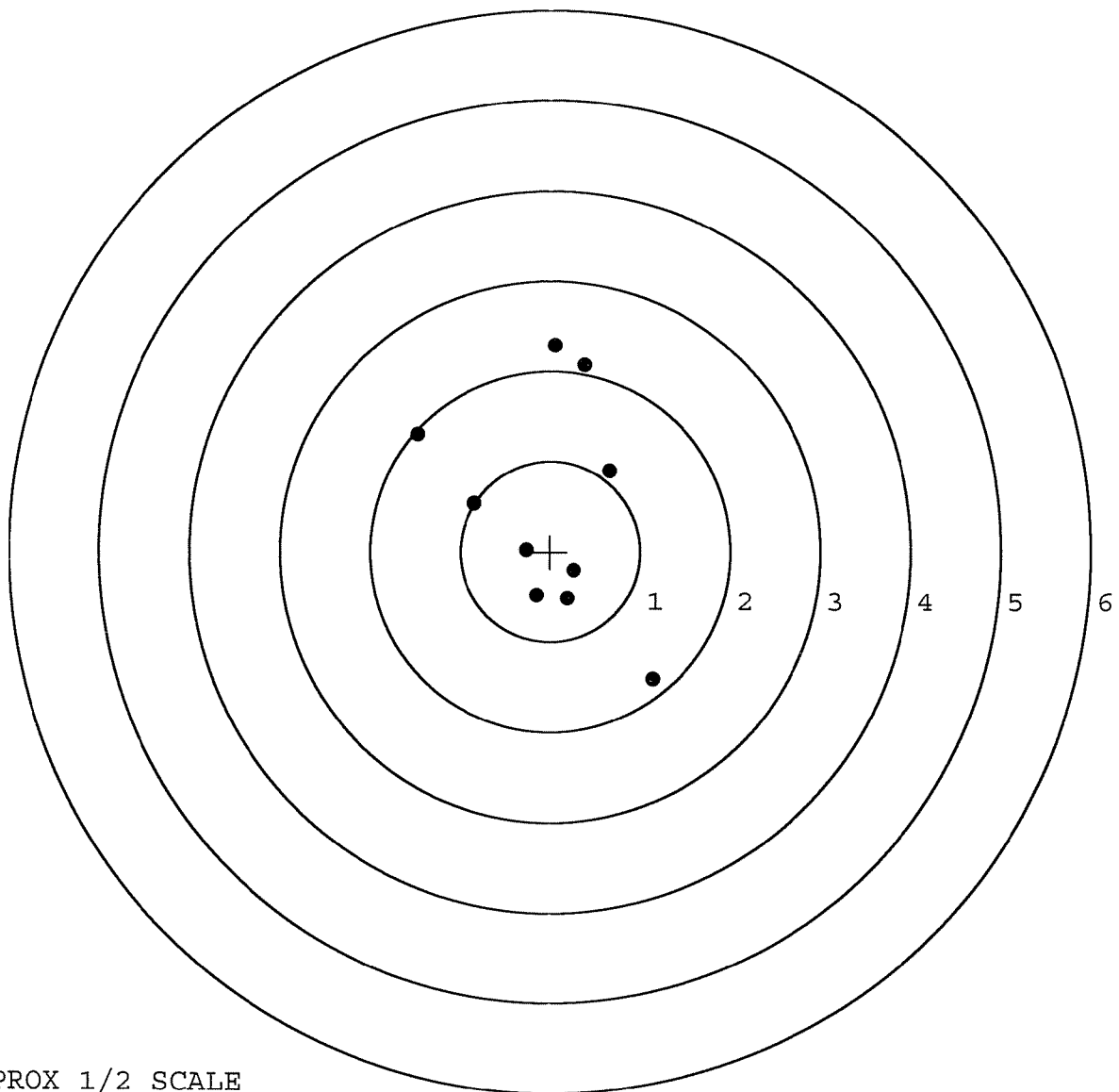
The Average X Centroid of the Five Target Set:	0.003
The Average Y Centroid of the Five Target Set:	0.110
The Average Point of Impact of the Five Target Set:	0.110
The Average Mean Radius of the Five Target Set:	1.159
The Distance from POA to Centroid Target #1:	0.446
The Distance from Centroid Target #2 to Centroid Target #1:	0.116
The Distance from Centroid Target #3 to Centroid Target #1:	0.212
The Distance from Centroid Target #4 to Centroid Target #1:	0.138
The Distance from Centroid Target #5 to Centroid Target #1:	1.431

BARBER - M24 0010691

SERIAL NUMBER: C6225212. __0
TARGET NUMBER: 1
FILE DATE: 06/30/2005
FILE TIME: 09:04

POINT#	X	Y
1:	0.665	0.887
2:	0.383	2.066
3:	0.050	2.282
4:	-1.480	1.300
5:	-0.849	0.536
6:	-0.272	0.024
7:	0.264	-0.208
8:	0.188	-0.521
9:	-0.156	-0.491
10:	1.144	-1.420

X CENTROID: -0.006
Y CENTROID: 0.445
POA TO CENTROID: 0.446
HORZ SPREAD: 2.624
VERT SPREAD: 3.702
GROUP SPREAD: 3.860
MIN RADIUS: 0.498
MAX RADIUS: 2.192
MEAN RADIUS: 1.219
IN 1 IN DIAMETER: 1
IN 2 IN DIAMETER: 6
in 3 IN DIAMETER: 6



TARGET APPROX 1/2 SCALE

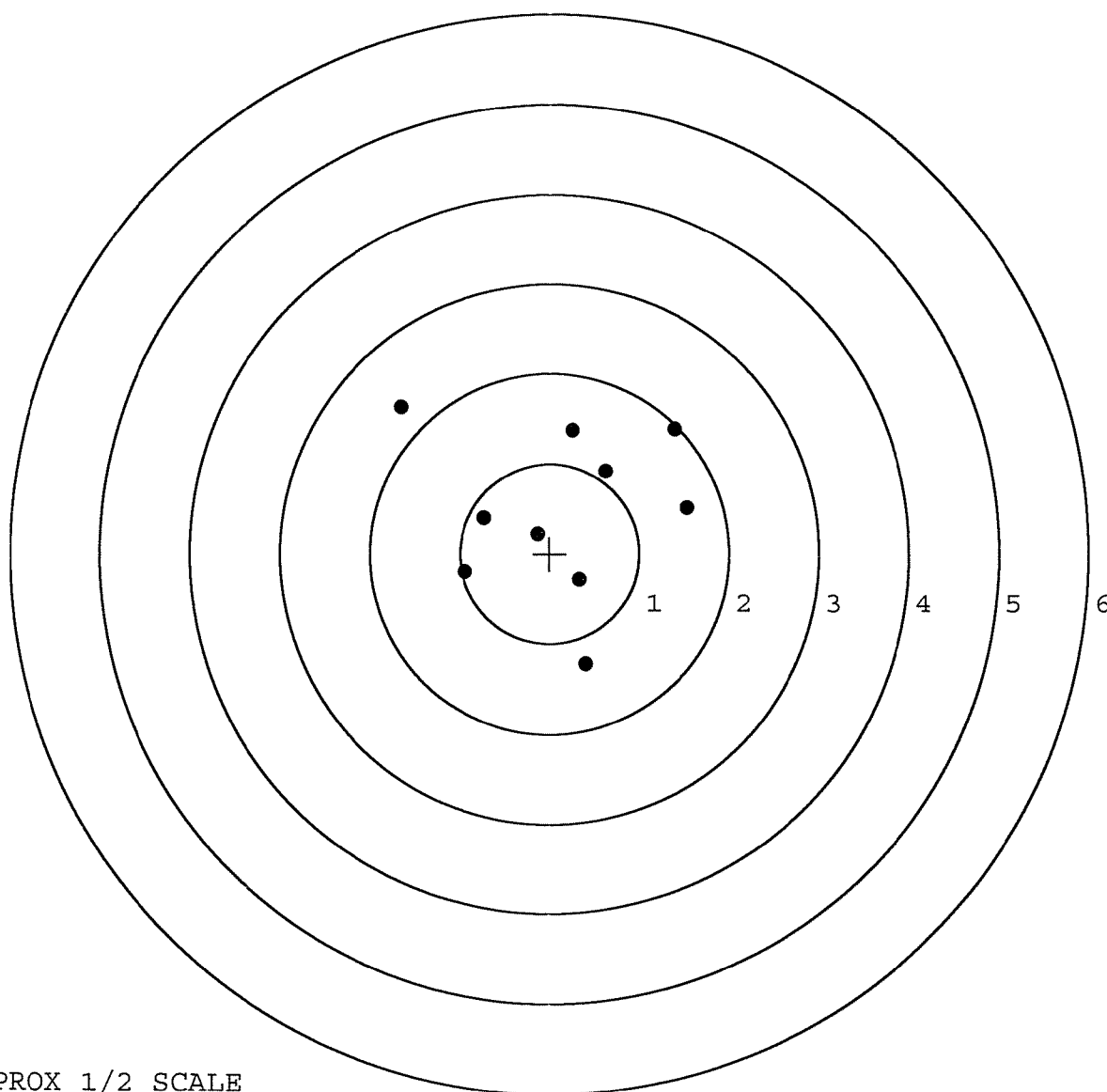
BARBER - M24 0010692

SERIAL NUMBER: C6225212. __0
TARGET NUMBER: 2
FILE DATE: 06/30/2005
FILE TIME: 09:04

X CENTROID: 0.108
Y CENTROID: 0.469
POA TO CENTROID: 0.481
HORZ SPREAD: 3.189
VERT SPREAD: 2.854
GROUP SPREAD: 3.523
MIN RADIUS: 0.350
MAX RADIUS: 2.112
MEAN RADIUS: 1.168

IN 1 IN DIAMETER: 1
IN 2 IN DIAMETER: 5
in 3 IN DIAMETER: 7

POINT#	X	Y
1:	0.407	-1.227
2:	0.336	-0.292
3:	-0.136	0.217
4:	-0.734	0.394
5:	-0.949	-0.206
6:	1.530	0.510
7:	1.390	1.383
8:	0.632	0.915
9:	0.260	1.367
10:	-1.659	1.627



TARGET APPROX 1/2 SCALE

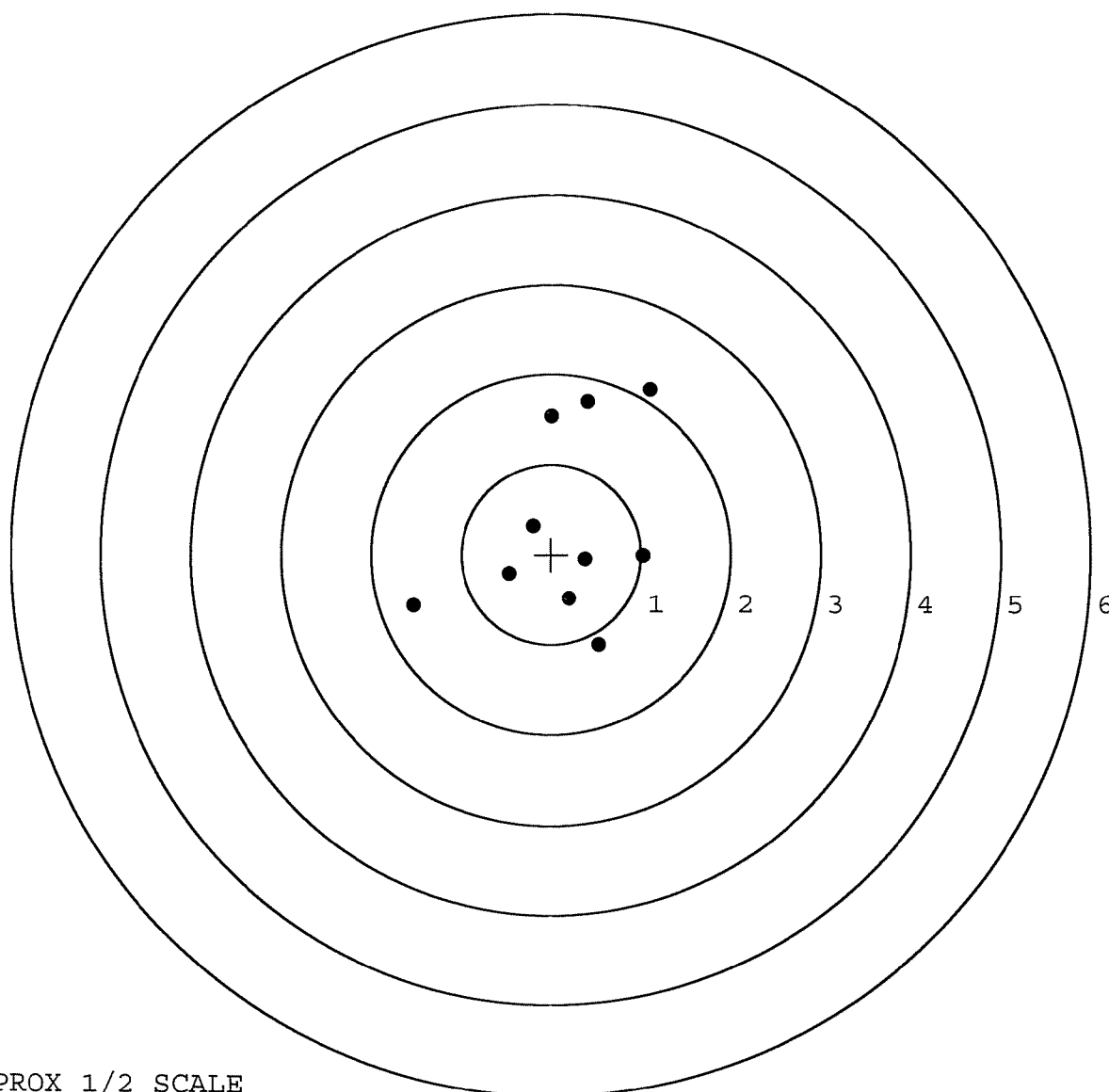
BARBER - M24 0010693

SERIAL NUMBER: C6225212. __ 0
TARGET NUMBER: 3
FILE DATE: 06/30/2005
FILE TIME: 09:04

X CENTROID: 0.146
Y CENTROID: 0.298
POA TO CENTROID: 0.332
HORZ SPREAD: 2.629
VERT SPREAD: 2.830
GROUP SPREAD: 3.556
MIN RADIUS: 0.348
MAX RADIUS: 1.889
MEAN RADIUS: 1.102

IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 5
in 3 IN DIAMETER: 8

POINT#	X	Y
1:	0.539	-1.008
2:	1.024	-0.015
3:	0.384	-0.058
4:	0.204	-0.498
5:	-0.202	0.314
6:	-0.467	-0.219
7:	-1.530	-0.573
8:	-0.004	1.528
9:	0.411	1.691
10:	1.099	1.822



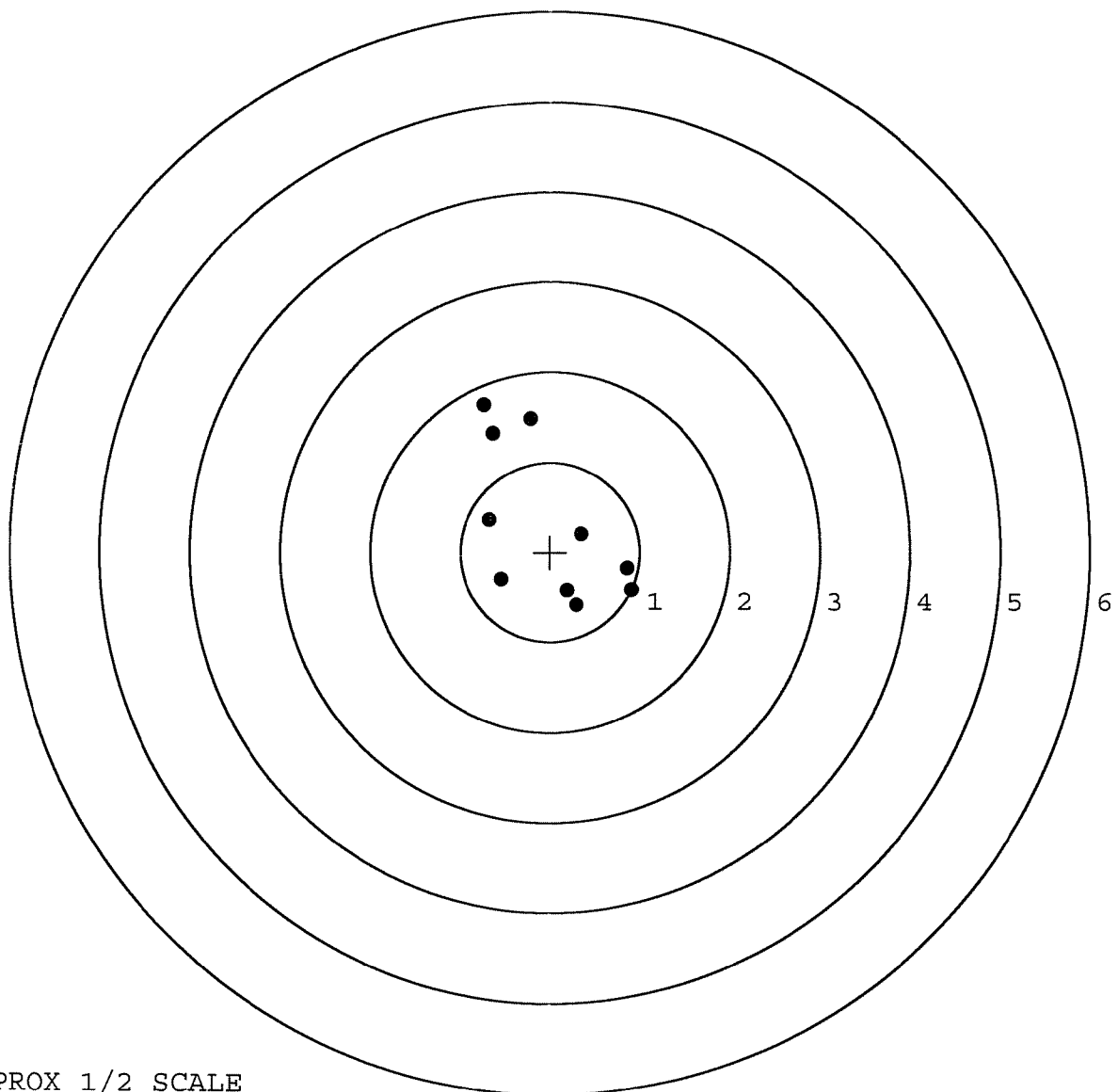
TARGET APPROX 1/2 SCALE

BARBER - M24 0010694

SERIAL NUMBER: C6225212. __0
TARGET NUMBER: 4
FILE DATE: 06/30/2005
FILE TIME: 09:04

POINT#	X	Y
1:	0.910	-0.422
2:	0.865	-0.186
3:	0.300	-0.598
4:	0.192	-0.427
5:	0.351	0.206
6:	-0.553	-0.305
7:	-0.680	0.366
8:	-0.220	1.486
9:	-0.646	1.321
10:	-0.745	1.639

X CENTROID: -0.023
Y CENTROID: 0.308
POA TO CENTROID: 0.309
HORZ SPREAD: 1.655
VERT SPREAD: 2.237
GROUP SPREAD: 2.643
MIN RADIUS: 0.387
MAX RADIUS: 1.514
MEAN RADIUS: 0.968
IN 1 IN DIAMETER: 1
IN 2 IN DIAMETER: 5
in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

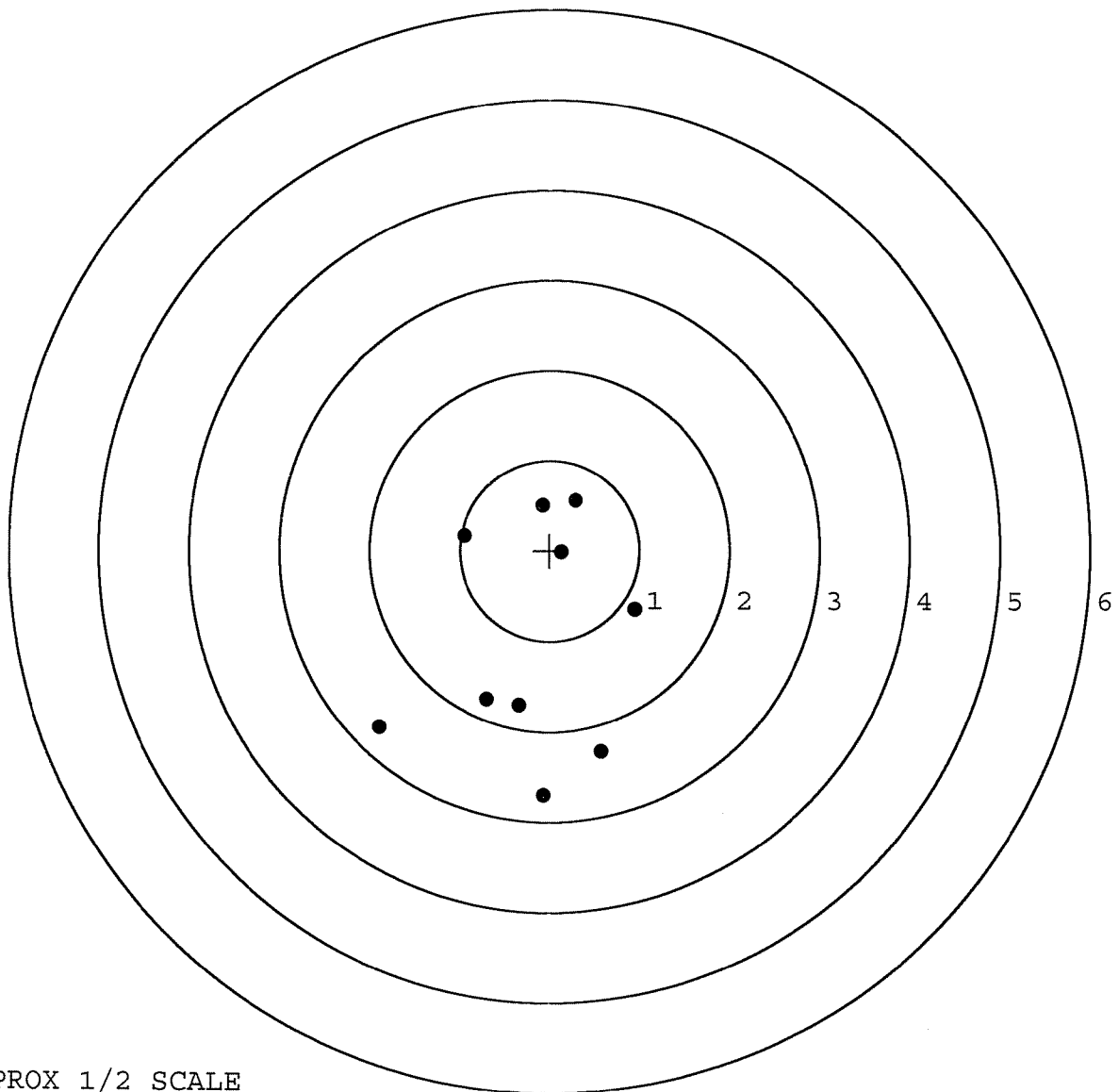
BARBER - M24 0010695

SERIAL NUMBER: C6225212. __0
TARGET NUMBER: 5
FILE DATE: 06/30/2005
FILE TIME: 09:04

X CENTROID: -0.208
Y CENTROID: -0.971
POA TO CENTROID: 0.993
HORZ SPREAD: 2.835
VERT SPREAD: 3.257
GROUP SPREAD: 3.311
MIN RADIUS: 0.752
MAX RADIUS: 1.943
MEAN RADIUS: 1.339

IN 1 IN DIAMETER: 0
IN 2 IN DIAMETER: 2
in 3 IN DIAMETER: 7

POINT#	X	Y
1:	0.948	-0.659
2:	0.130	-0.021
3:	-0.949	0.162
4:	-0.083	0.499
5:	0.290	0.547
6:	0.586	-2.224
7:	-0.341	-1.711
8:	-0.704	-1.645
9:	-1.887	-1.948
10:	-0.067	-2.710



TARGET APPROX 1/2 SCALE

M-24 INSPECTION CHECKLIST
 CONTRACT #: DAAE-20-02-D-0127

R & E NUMBER	92886		
SERIAL NUMBER	C6225212		
LOG-IN DATE	2-10-05		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	5-27-05	RTZ
560 A	RE-BARREL	6-6-05	RTZ
B	DRILL AND TAP	6-8-05	TRW
575	ASSEMBLE	6-6-05	RTZ
600	PROOF	6-17-05	Ac
605	CHECK HEADSPACE	6-17-05	Ac
610	DIS-ASSEMBLE GUN	6-7-05	RTZ
612	MAGNAFLUX	6-9-05	umb
615	ROLLMARK CALIBER	6-9-05	CW
618	ROTO-BLAST	6-10-05	KB
620	APPLY COATINGS	6-13-05	W
625 A	FINAL ASSEMBLY	6-29-05	RTZ
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE	7-12-05	Ac
D	SAFETY "OFF" FORCE	7-12-05	Ac
E	FIRING PIN INDENT	7-12-05	Ac
640	TARGET	6-30-05	TRW
655	FINAL INSPECT	7-12-05	Ac
660	PACK	7-12-05	DA
		SHIP DATE	
		QAR INSPECTION DATE	

OP. #	OP. NAME	READINGS	DATE	INITIAL
575 & 580	Assemble Action and stock	8	9/88	FB
600	Proof	9	7/88	RW
607	Check Headspace	9	7/88	RW
610	Dis-assemble gun	9	7/88	RW
612	Magnaflux Barrel Action		9-14-88	Pfe.
	Magnaflux Bolt		9-14-88	Pfe.
615	Rollmark Caliber		10/12	WC
617	Drill & Tap Sight Holes		10/12	FB
618	Polish Barrel		10/70	WT
620	Apply Coatings (Barrel Action)		10-31-88	TJA
	Apply Coatings (Bolt)		10-31-88	TJA
625	Final Assembly A) Clean inside of Bolt Assembly		11/2/88	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		11/2/88	RW
	C) Inspect Ejector Hole for Chamfer		11/2/88	RW

OVER

OP. #		READINGS	DATE	INITIAL
625 cont.	D) Oil Firing Pin Ass'y		11/2/88	RW
	E) Adjust Trigger Pull to Min. Setting and Stake		2/10/88	JSS
	F) Safety on Force	5 5 5	2/10/88	J.S.
	G) Safety off Force	3 3 3	2/10/88	J.S.
	H) Trigger Pull Test & Retainability		2/10/88	J.S.
	I) Firing Pin Indent	.0205 .0205 .0205	2/10/88	J.S.
	J) Assemble Stock		11/2/88	RW
	K) Assemble Swivel Studs		29/10/88	JSS
	L) Attach Front & Rear Sight Assemblies		11/2/88	RW
	M) Iron Sight Alignment		11/2/88	RW
	N) Detach Front & Rear Sights & place in numbered container		11/2/88	RW
	O) Attach Scope to Rifle		11/7/88	RW
	P) Detach & Attach Scope 20 times		11/7/88	W.B.
640	Gallery Target & Test	55 R 98L	11-8-88	A.C.
	A) Optical Clarity of Scope	OK	11-8-88	A.C.
645	Inspect for Live Ammo	none	11-8-88	A.C.
655	Final Inspection			
	A) Headspace		29/10/88	JSS
	B) Trigger Pull		29/10/88	JSS
	C) Function		29/10/88	JSS
660	Pack		15 Dec 88	JSS

SWS TRIGGER PULL TEST

BARBER - M24 0010699

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6225212DATE 1 Nov 88TESTER JU + LS

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.37	2.28	2.42	2.30	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.40	2.38	2.28	2.31	
PULL #3	2.40	2.28	2.33	2.34	
PULL #4	2.49	2.26	2.42	2.32	
PULL #5	2.39	2.34	2.34	2.37	
TOTAL	12.05	11.54	11.79	11.64	
AVG.	2.41	2.308	2.358	2.328	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.33	3.32		
PULL #2	3.28	3.37		
PULL #3	3.29	3.33		
PULL #4	3.34	3.30		
PULL #5	3.33	3.29		
TOTAL	16.57	16.61		
AVG.	3.314	3.322		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.30	4.32		4.24
PULL #2	4.30	4.32		4.28
PULL #3	4.33	4.41		4.24
PULL #4	4.31	4.34		4.31
PULL #5	4.29	4.40		4.27
TOTAL	21.53	21.79		21.34
AVG.	4.306	4.358		4.268

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6225212

CENTROIDAL DISTANCES

0 TO	1	.733001
1 TO	2	1.06356
1 TO	3	.680661
1 TO	4	.700908
1 TO	5	.887507

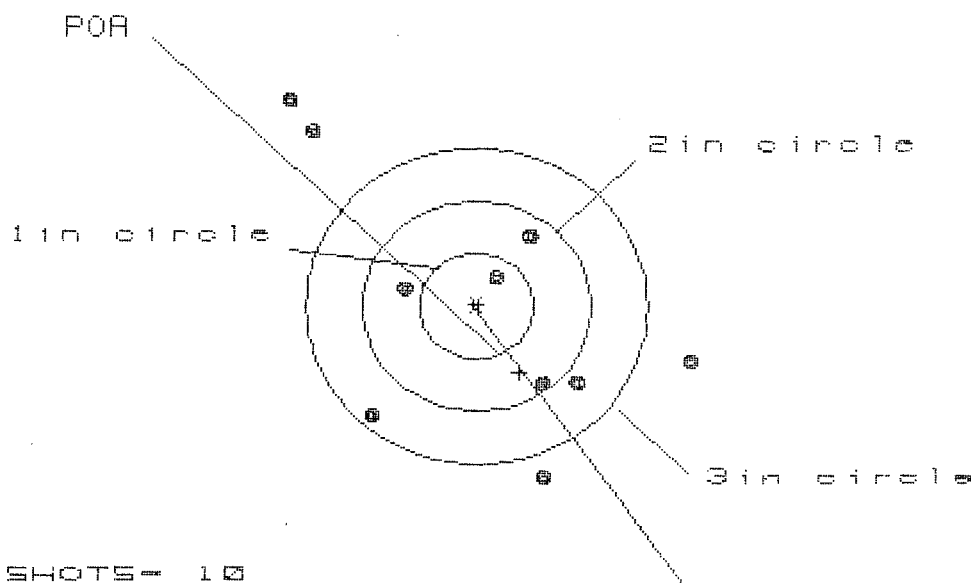
1
25 4 <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.216
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0402
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .219709
THE AMR FOR THIS RIFLE IS: 1.212

6 Nov 1988

FILE:/PATTERNING/CENTERFIRE_PATT/06225212

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 4

3 in = 6

HS= 3.472

VS= 3.529

GS= 4.235

CENTROID *

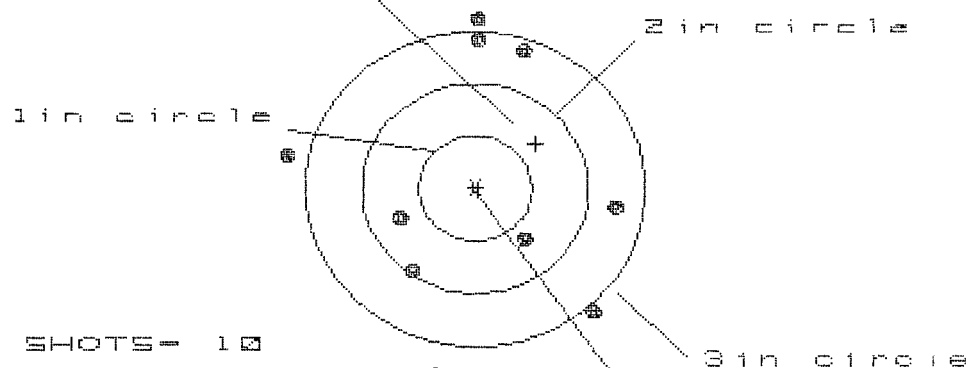
PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.879	1.702	1.504
MINIMUM X	-1.593	-1.590	-1.275
MAXIMUM Y	1.934	1.895	1.139
MINIMUM Y	-1.595	-1.381	-1.144
CENTROID X	-.373	-.196	.002
CENTROID Y	.631	.417	.180
POA TO CENTROID in.	.734	.461	.180
MIN RADIUS	.287	.440	.368
MEAN RADIUS	1.367	1.212	1.016
MAX RADIUS	2.505	2.474	1.504
HORIZONTAL SPREAD	3.472	3.292	2.779
VERTICAL SPREAD	3.529	3.276	2.283
EXTREME SPREAD	4.235	3.944	2.840
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	6		

8 May 1988

FILE:/PATTERNING/CENTERFIRE_PATT/08225212

CENTERFIRE PATTERNS # 2

POA



OF SHOTS - 10

IN CIR

1 in = 0

2 in = 3

3 in = 6

HS = 2.922

VS = 3.404

GS = 3.435

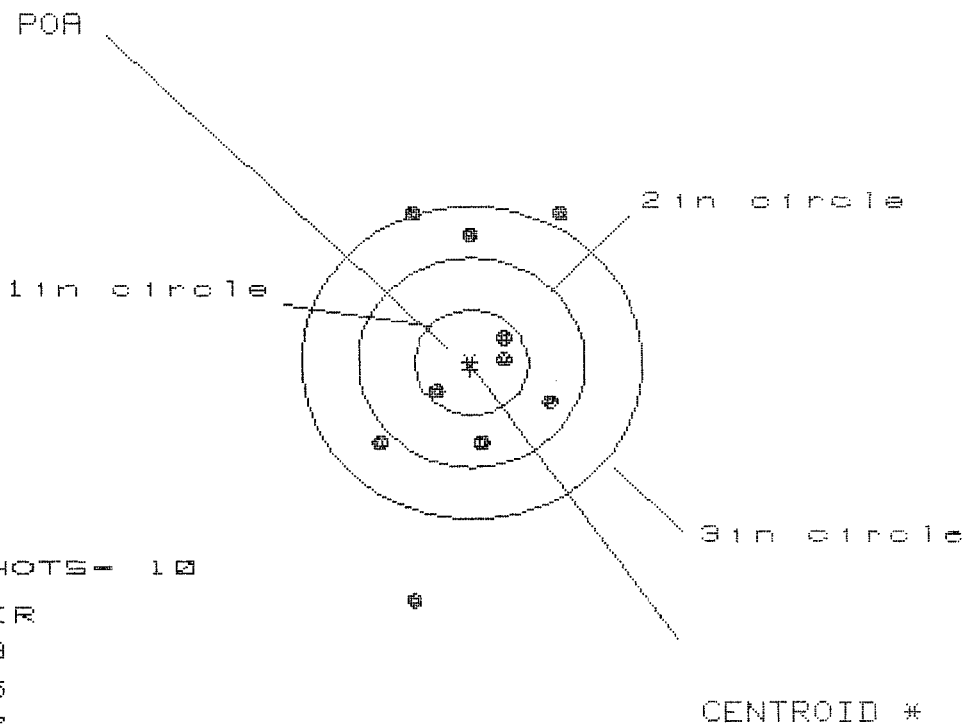
CENTROID *

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.274	1.229	1.017
MINIMUM X	:	-1.648	-1.693	-.918
MAXIMUM Y	:	1.594	1.392	1.407
MINIMUM Y	:	-1.810	-1.355	-1.340
CENTROID X	:	-.536	-.491	-.279
CENTROID Y	:	-.420	-.219	-.234
POA TO CENTROID in.	:	.681	.538	.364
MIN RADIUS	:	.617	.753	.659
MEAN RADIUS	:	1.319	1.260	1.190
MAX RADIUS	:	1.856	1.701	1.569
HORIZONTAL SPREAD	:	2.922	2.922	1.935
VERTICAL SPREAD	:	3.404	2.747	2.747
EXTREME SPREAD	:	3.435	3.095	2.930
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		6	

8 Nov 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225212

CENTERFIRE PATTERNS # 3



OF SHOTS - 10

IN CIR

1 in = 3

2 in = 5

3 in = 7

HS = 1.601

VS = 3.723

GS = 3.908

PATTERN #	:	3	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.778	.723	.726
MINIMUM X	:	-.823	-.878	-.798
MAXIMUM Y	:	1.477	1.227	1.377
MINIMUM Y	:	-2.246	-.999	-.849
CENTROID X	:	.011	.066	-.024
CENTROID Y	:	.069	.319	.169
POA TO CENTROID in.	:	.070	.326	.171
MIN RADIUS	:	.310	.225	.325
MEAN RADIUS	:	1.049	.912	.832
MAX RADIUS	:	2.300	1.400	1.445
HORIZONTAL SPREAD	:	1.601	1.601	1.514
VERTICAL SPREAD	:	3.723	2.226	2.226
EXTREME SPREAD	:	3.908	2.715	2.308
NUMBER IN ONE INCH CIRCLE	=	3		
NUMBER IN TWO INCH CIRCLE	=	5		
NUMBER IN THREE INCH CIRCLE	=	7		

8 Nov 1988

FILE:/PATTERNING/CENTERFIRE_PATT/06225212

CENTERFIRE PATTERNS

4

POA

1 in circle

2 in circle

3 in circle

OF SHOTS- 10

IN CIR

1 in = 3

2 in = 5

3 in = 7

HS= 4.002

VS= 3.261

GS= 4.714

CENTROID #

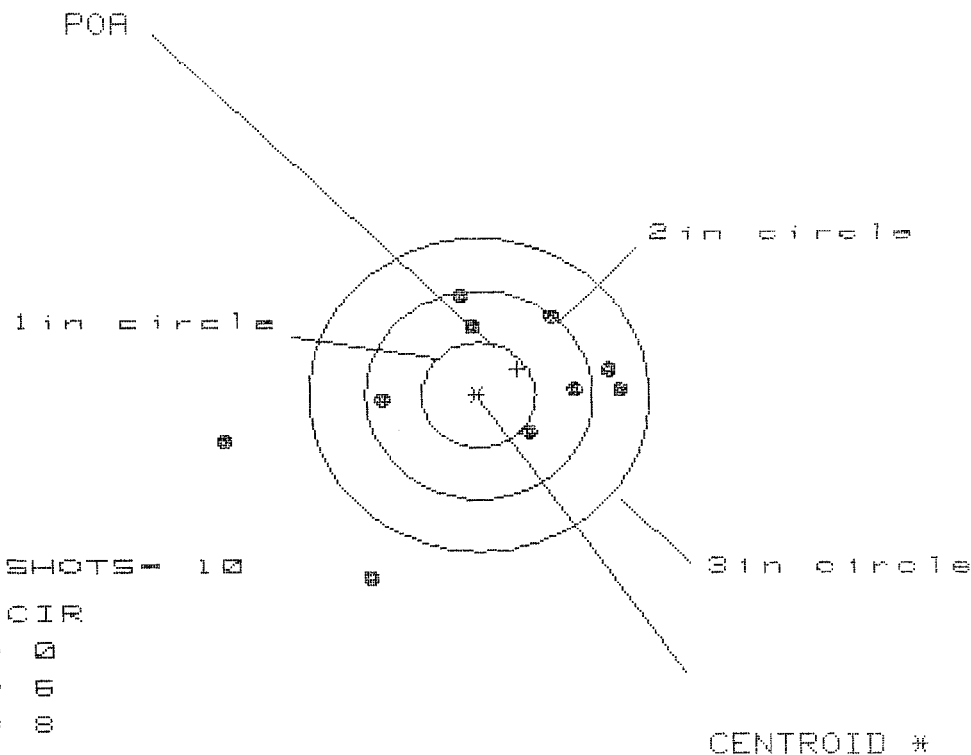
PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	2.499	1.578	1.425
MINIMUM X	:	-1.503	-1.225	-.814
MAXIMUM Y	:	1.765	1.684	.980
MINIMUM Y	:	-1.496	-1.577	-1.367
CENTROID X	:	.161	-.117	.036
CENTROID Y	:	.177	.258	.048
POA TO CENTROID in.	:	.239	.283	.060
MIN RADIUS	:	.090	.123	.154
MEAN RADIUS	:	1.180	.987	.854
MAX RADIUS	:	2.603	2.082	1.426
HORIZONTAL SPREAD	:	4.002	2.803	2.239
VERTICAL SPREAD	:	3.261	3.261	2.347
EXTREME SPREAD	:	4.714	3.537	2.482
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		7	

8 May 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225212

CENTERFIRE PATTERNS

5



OF SHOTS- 10

IN CIR

1 in = 0

2 in = 6

3 in = 8

HS= 3.456

VS= 2.742

GS= 3.499

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.232	.985	.838
MINIMUM X	:	-2.224	-1.175	-1.286
MAXIMUM Y	:	.956	.905	.676
MINIMUM Y	:	-1.786	-1.837	-.614
CENTROID X	:	-.343	-.096	.051
CENTROID Y	:	-.256	-.205	.024
POA TO CENTROID in.	:	.428	.226	.057
MIN RADIUS	:	.536	.421	.488
MEAN RADIUS	:	1.146	.955	.743
MAX RADIUS	:	2.270	2.181	1.334
HORIZONTAL SPREAD	:	3.456	2.160	2.124
VERTICAL SPREAD	:	2.742	2.742	1.290
EXTREME SPREAD	:	3.499	2.972	2.130
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		8	