

C6348905

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5715**

*Includes 1 in chamber.

Remington

Serial Number: C6348906
Model: M24 SWS

RE00092925

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6348906.___0
FILE DATE AND TIME: 05/19/2005 05:14

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

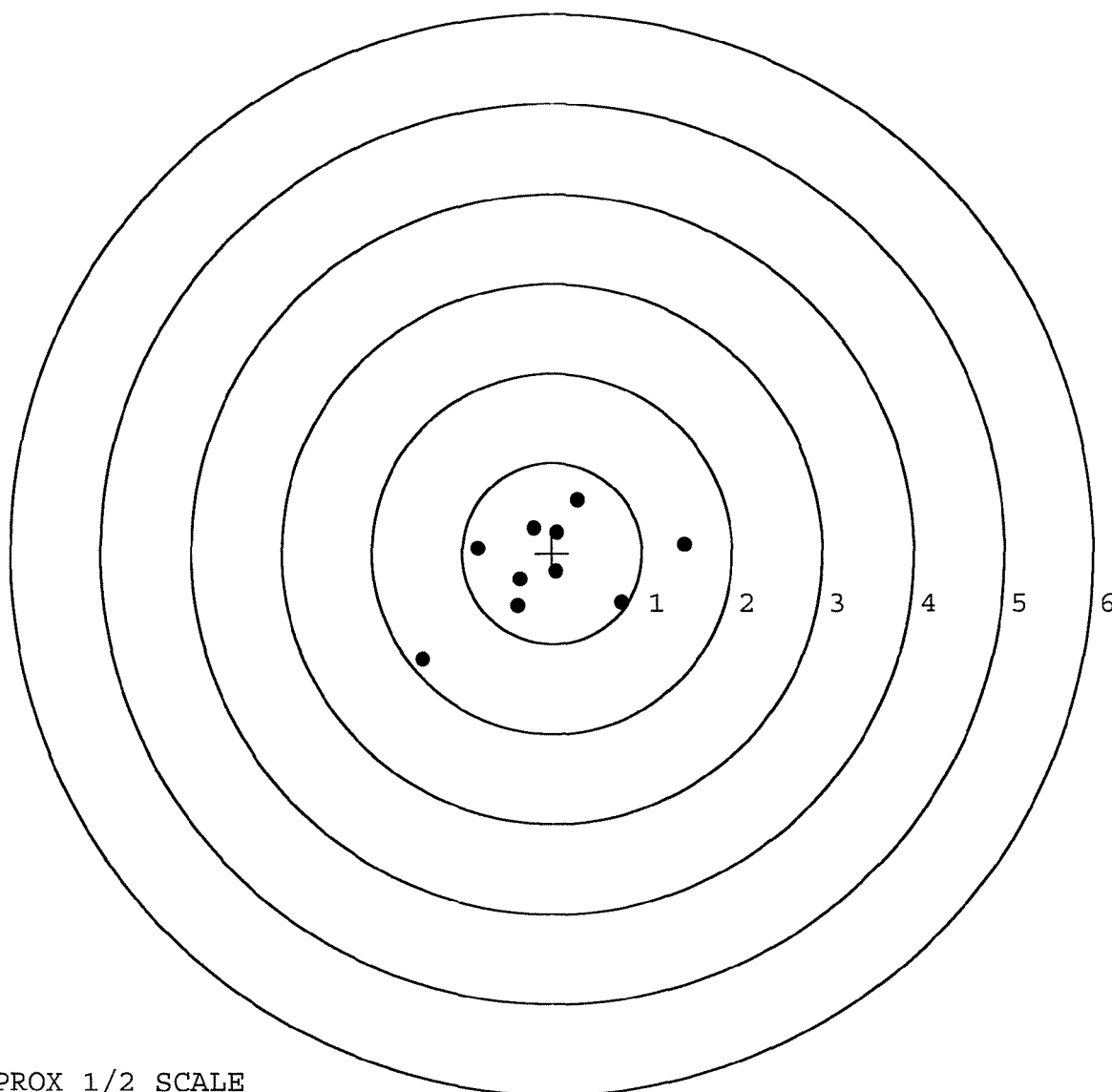
The Average X Centroid of the Five Target Set:	0.119
The Average Y Centroid of the Five Target Set:	0.128
The Average Point of Impact of the Five Target Set:	0.175
The Average Mean Radius of the Five Target Set:	0.867
The Distance from POA to Centroid Target #1:	0.167
The Distance from Centroid Target #2 to Centroid Target #1:	0.313
The Distance from Centroid Target #3 to Centroid Target #1:	0.902
The Distance from Centroid Target #4 to Centroid Target #1:	0.340
The Distance from Centroid Target #5 to Centroid Target #1:	0.253

SERIAL NUMBER: C6348906.___0
TARGET NUMBER: 1
FILE DATE: 05/19/2005
FILE TIME: 05:14

X CENTROID: -0.060
Y CENTROID: -0.156
POA TO CENTROID: 0.167
HORZ SPREAD: 2.909
VERT SPREAD: 1.786
GROUP SPREAD: 3.185
MIN RADIUS: 0.114
MAX RADIUS: 1.724
MEAN RADIUS: 0.766

IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 8

POINT#	X	Y
1:	1.472	0.103
2:	0.773	-0.542
3:	0.282	0.593
4:	-0.210	0.276
5:	0.060	0.228
6:	0.045	-0.202
7:	-0.364	-0.293
8:	-0.389	-0.583
9:	-0.827	0.056
10:	-1.437	-1.193



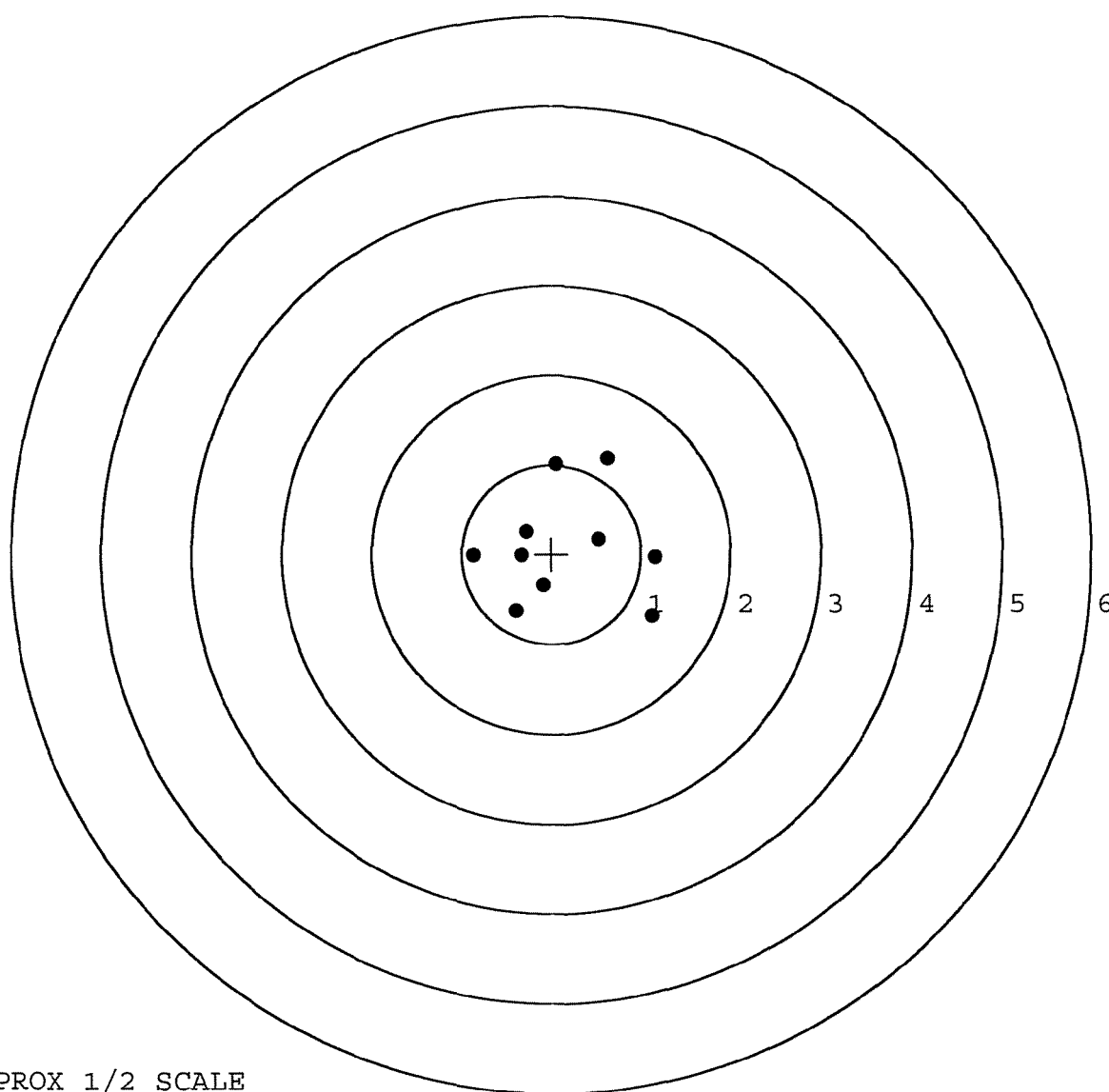
TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6348906.___0
TARGET NUMBER: 2
FILE DATE: 05/19/2005
FILE TIME: 05:14

X CENTROID: 0.149
Y CENTROID: 0.077
POA TO CENTROID: 0.168
HORZ SPREAD: 2.036
VERT SPREAD: 1.767
GROUP SPREAD: 2.104
MIN RADIUS: 0.383
MAX RADIUS: 1.239
MEAN RADIUS: 0.808

IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 6
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	1.123	-0.689
2:	1.166	-0.036
3:	0.520	0.173
4:	0.629	1.078
5:	0.048	1.013
6:	-0.291	0.248
7:	-0.334	-0.019
8:	-0.096	-0.347
9:	-0.401	-0.637
10:	-0.870	-0.016



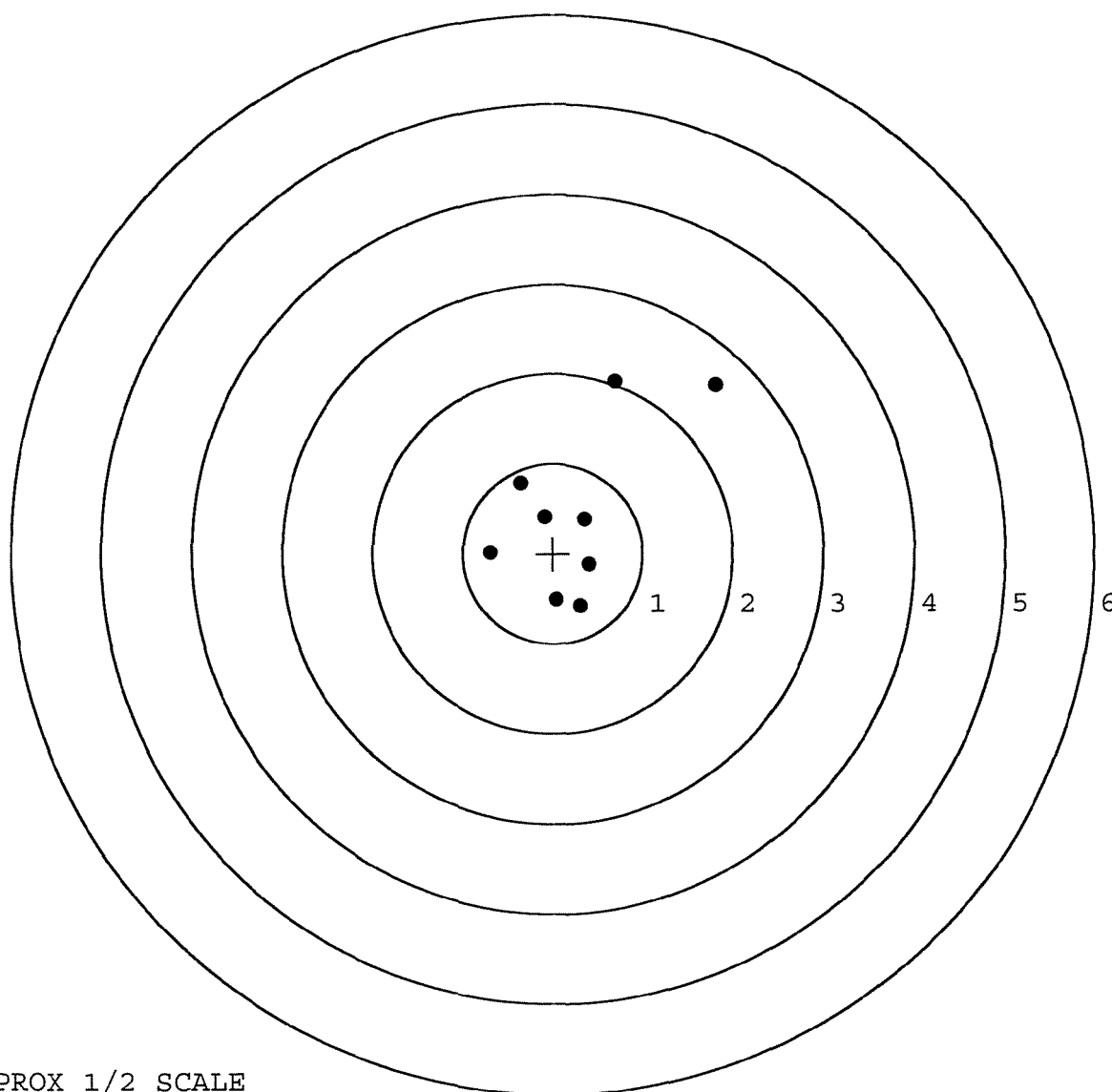
TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6348906. __0
TARGET NUMBER: 3
FILE DATE: 05/19/2005
FILE TIME: 05:14

X CENTROID: 0.426
Y CENTROID: 0.604
POA TO CENTROID: 0.740
HORZ SPREAD: 2.518
VERT SPREAD: 2.501
GROUP SPREAD: 3.128
MIN RADIUS: 0.226
MAX RADIUS: 1.884
MEAN RADIUS: 1.107

IN 1 IN DIAMETER: 1
IN 2 IN DIAMETER: 4
in 3 IN DIAMETER: 8

POINT#	X	Y
1:	1.819	1.873
2:	1.818	1.874
3:	0.697	1.915
4:	0.303	-0.586
5:	0.034	-0.519
6:	0.403	-0.116
7:	0.349	0.392
8:	-0.095	0.412
9:	-0.365	0.780
10:	-0.699	0.018

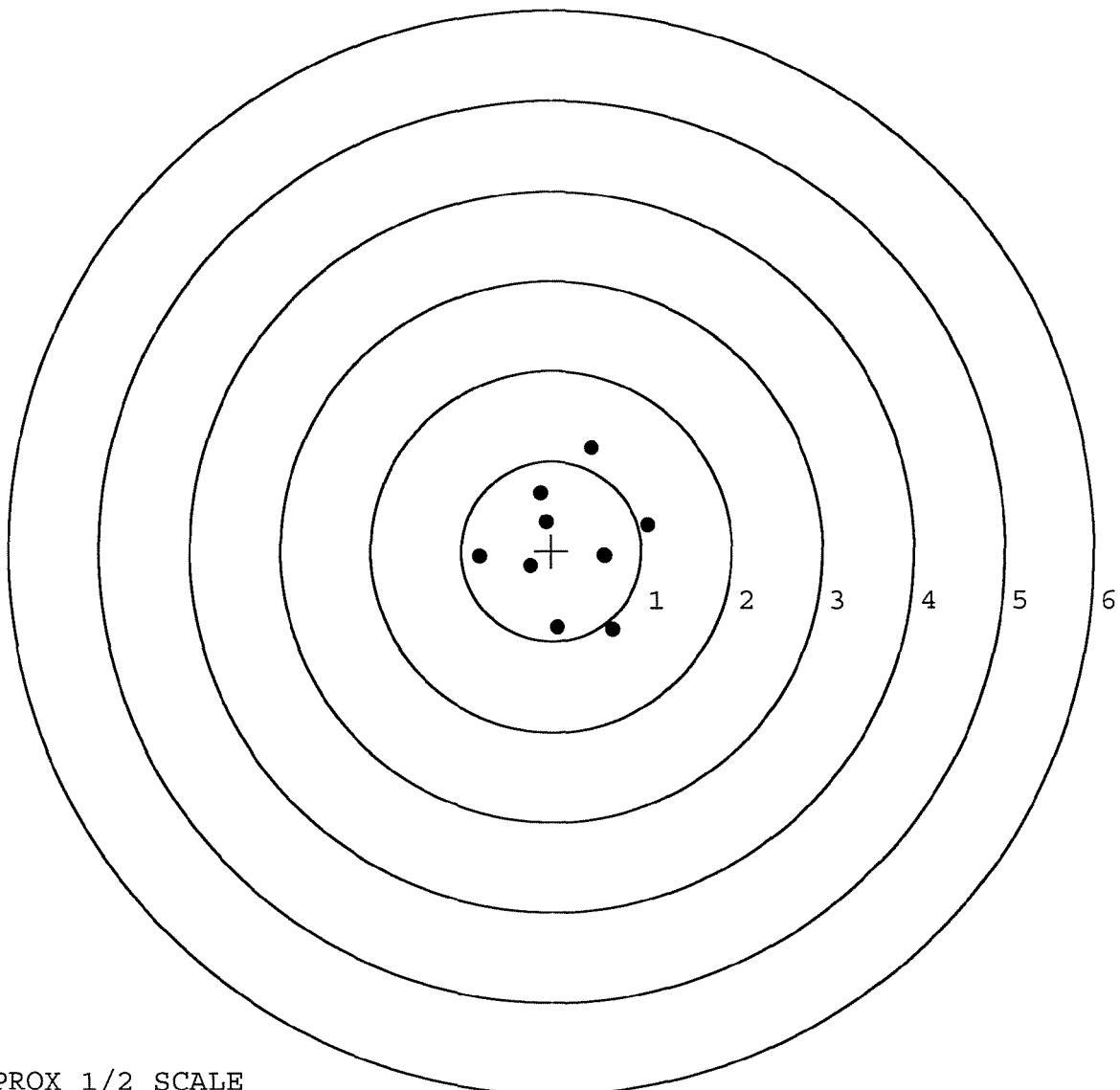


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6348906. __0
TARGET NUMBER: 4
FILE DATE: 05/19/2005
FILE TIME: 05:14

X CENTROID: 0.223
Y CENTROID: 0.033
POA TO CENTROID: 0.225
HORZ SPREAD: 1.864
VERT SPREAD: 2.029
GROUP SPREAD: 2.049
MIN RADIUS: 0.377
MAX RADIUS: 1.143
MEAN RADIUS: 0.734
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.677	-0.876
2:	0.590	-0.052
3:	0.594	-0.054
4:	1.069	0.288
5:	0.062	-0.859
6:	-0.234	-0.169
7:	-0.063	0.324
8:	-0.123	0.643
9:	0.452	1.153
10:	-0.795	-0.066



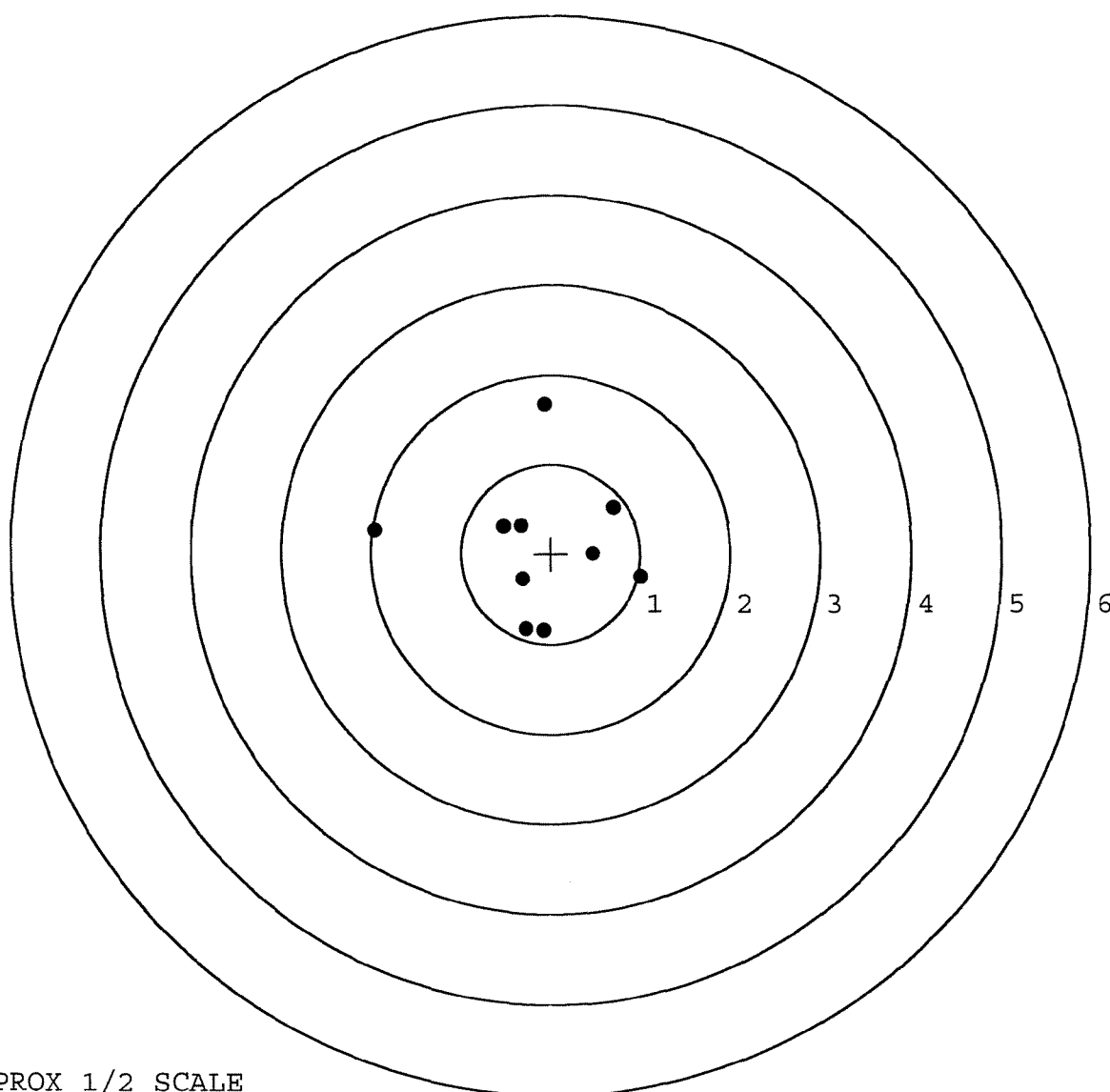
TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6348906.___0
TARGET NUMBER: 5
FILE DATE: 05/19/2005
FILE TIME: 05:14

X CENTROID: -0.142
Y CENTROID: 0.083
POA TO CENTROID: 0.165
HORZ SPREAD: 2.957
VERT SPREAD: 2.529
GROUP SPREAD: 3.002
MIN RADIUS: 0.304
MAX RADIUS: 1.820
MEAN RADIUS: 0.921

IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 8

POINT#	X	Y
1:	1.003	-0.260
2:	0.471	0.007
3:	0.695	0.520
4:	-0.080	1.672
5:	-1.954	0.256
6:	-0.336	0.317
7:	-0.533	0.300
8:	-0.326	-0.285
9:	-0.083	-0.857
10:	-0.281	-0.840



TARGET APPROX 1/2 SCALE

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

R & E NUMBER	92925		
SERIAL NUMBER	C6348906		
LOG-IN DATE	2-10-05		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	4-25-05	RTZ
560 A	RE-BARREL	5-3-05	RTZ
B	DRILL AND TAP	5-5-05	TRW
575	ASSEMBLE	5-3-05	RTZ
600	PROOF	5-4-05	AC
605	CHECK HEADSPACE	5-4-05	AC
610	DIS-ASSEMBLE GUN	5-6-05	RTZ
612	MAGNAFLUX		
615	ROLLMARK CALIBER	5-9-05	CW
618	ROTO-BLAST	5-9-05	LB
620	APPLY COATINGS	5-16-05	W
625 A	FINAL ASSEMBLY	5-18-05	RTZ
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE	5-27-05	AC
D	SAFETY "OFF" FORCE	5-27-05	AC
E	FIRING PIN INDENT	5-27-05	AC
640	TARGET	5-19-05	AC
655	FINAL INSPECT	5-27-05	AC
660	PACK	7-7-05	NA
		SHIP DATE	
QAR INSPECTION DATE			




VERY IMPORTANT!
Instruction Book
enclosed to assure
safe use of this
firearm.

MODEL 700™ H24

SERIAL NO.
C6348906

ORDER NO.
5716

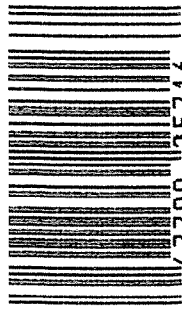
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Ø 1



5716 C6348906

LIPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6348906

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	8 30	89	DW
600	Proof	8 30	89	DW
607	Check Headspace	8 30	89	DW
610	Dis-assemble Gun	8 30	89	DW
612	Magnaflux Barrel Action		8/31/89	KCR
	Magnaflux Bolt	deep scratches only w.B	9/1/89	PfC.
615	Rollmark Caliber			
7	Drill and Tap Sight Holes	9 1	89	40
618	Polish Barrel RB	9 1	89	BT
620	Apply Coatings (Barrel Action)		9/7/89	TJA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		9/26/89	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		9/26/89	RW
	C) Inspect Ejector Hole for Chamfer		9/26/89	RW
	D) Oil Firing Pin Ass'y		9/26/89	RW
	E) Adjust Trigger Pull to Min Setting and Stake		25 Sep 89	928

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	6	6	6			9/26/89	JH
	G) Safety Off Force	3	3	3			9/26/89	JH
	H) Trigger Pull Test & Retainability						25 Sept 89	JH
	I) Firing Pin Indent	.0205	.0205	.021			9/26/89	JH
	J) Assemble Stock						10/16/89	RW
	K) Assemble Swivel Studs						18 Oct 89	JH
	L) Attach Front and Rear Sight Assemblies						12/11/89	RW
	M) Iron Sight Alignment						12/11/89	RW
	N) Detach Front & Rear Sights & place in numbered container						12/11/89	RW
	O) Attach Scope to Rifle						10/14/89	JH
	P) Detach & Attach Scope 20 Times						10/16/89	JH
640	Gallery Target & Test						10-16-89	AC
	A) Time						10-16-89	AC
	B) Malfunctions						10-16-89	AC
	C) Pierced Primers						10-16-89	AC
	D) Optical Clarity of Scope						10-16-89	AC
645	Inspect for Live Ammo						10-16-89	AC
655	Final Inspection						18 Oct 89	JH
	A) Headspace						18 Oct 89	JH
	B) Trigger Pull	228	224	245	238	240	18 Oct 89	JH
	C) Function						18 Oct 89	JH
660	Pack						13 Dec 89	JH

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO. C6348906

DATE 12 MAR 90

TESTER JS

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#	COMMENTS
PULL #1	2.19	2.10	2.54	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.14	2.17	2.59	
PULL #3	2.22	2.10	2.38	
PULL #4	2.22	2.11	2.59	
PULL #5	2.16	2.13	2.53	
TOTAL	10.93	10.61		
AVG.	2.186	2.122		

	3.00# INITIAL	3.00# AFTER 20 CYCLES	COMMENTS
PULL #1	3.03	2.91	
PULL #2	2.89	2.81	
PULL #3	2.89	2.76	
PULL #4	2.87	2.77	
PULL #5	2.94	2.70	
TOTAL	14.62	13.95	
AVG.	2.924	2.79	

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.11	3.88		
PULL #2	3.84	3.89		
PULL #3	4.03	3.83		
PULL #4	4.00	3.91		
PULL #5	4.02	3.88		
TOTAL	20.00	19.39		
AVG.	4.00	3.878		

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06348906
16 Oct 1989

CENTROIDAL DISTANCES

0 TO	1	.649384
1 TO	2	.496784
1 TO	3	.542382
1 TO	4	.728789
1 TO	5	.496181

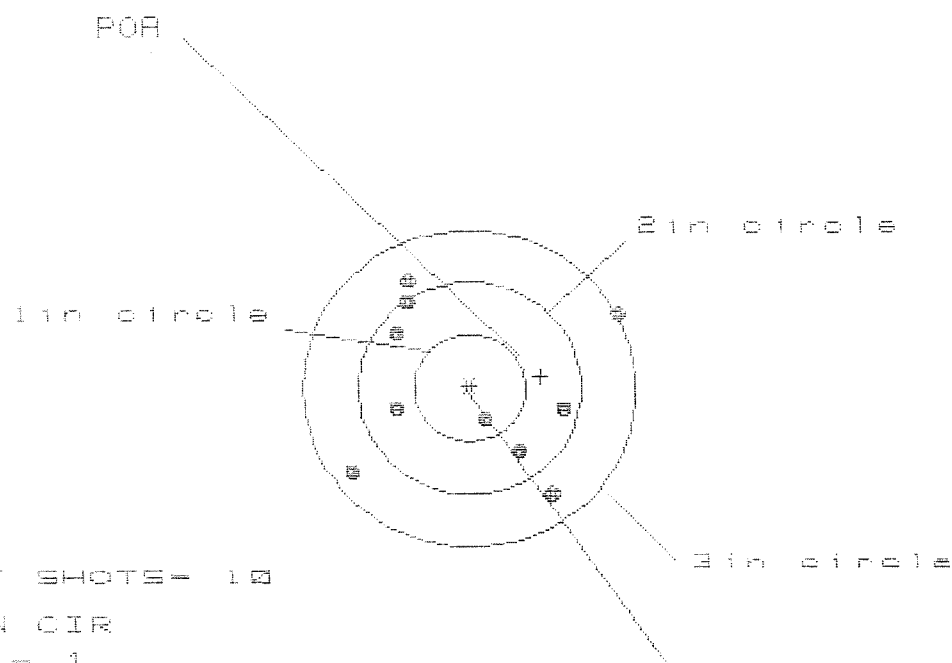
$\frac{2}{1.54}$ <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.2754
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.2132
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .348281
THE AMR FOR THIS RIFLE IS: .9794

LB Oct 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C834B906

CENTERFIRE PATTERNS # 1



OF SHOTS= 10

IN CIR

1in = 1

2in = 5

3in = 9

HS= 2.351

VS= 1.975

GS= 2.781

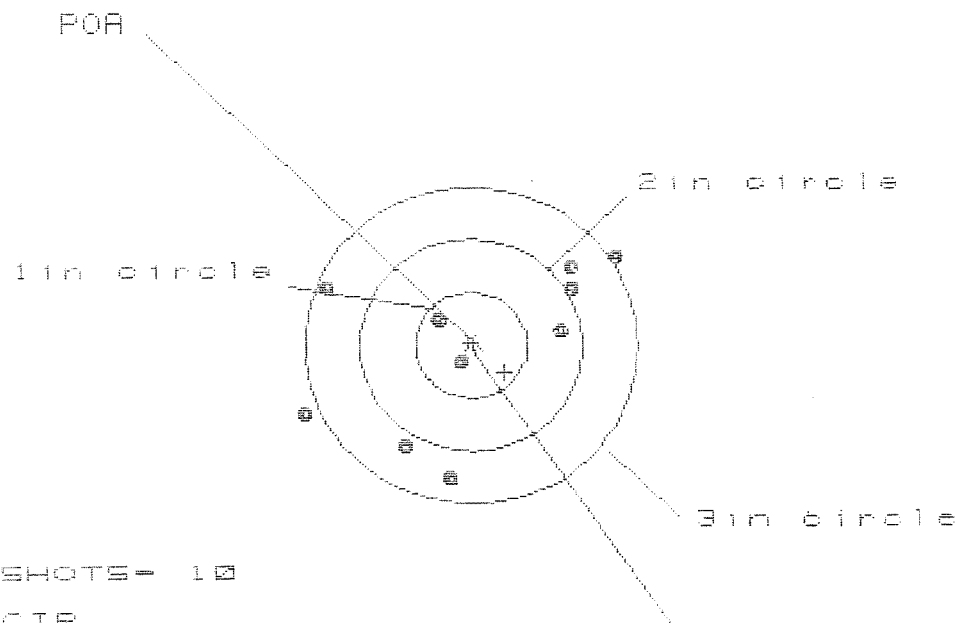
CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.340	.985	.876
MINIMUM X	-1.021	-.872	-.585
MAXIMUM Y	.966	1.043	.955
MINIMUM Y	-1.009	-.932	-1.020
CENTROID X	-.640	-.789	-.688
CENTROID Y	-.110	-.187	-.099
POA TO CENTROID in.	.649	.811	.687
MIN RADIUS	.276	.312	.304
MEAN RADIUS	.957	.881	.848
MAX RADIUS	1.506	1.294	1.290
HORIZONTAL SPREAD	2.361	1.857	1.461
VERTICAL SPREAD	1.975	1.975	1.975
EXTREME SPREAD	2.781	2.381	2.381
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	9		

18 Oct 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08340986

CENTERFIRE PATTERNS # 2



OF SHOTS = 10

IN CIR

1 in = 2

2 in = 3

3 in = 8

HS = 2.756

VS = 2.052

GS = 3.109

CENTROID *

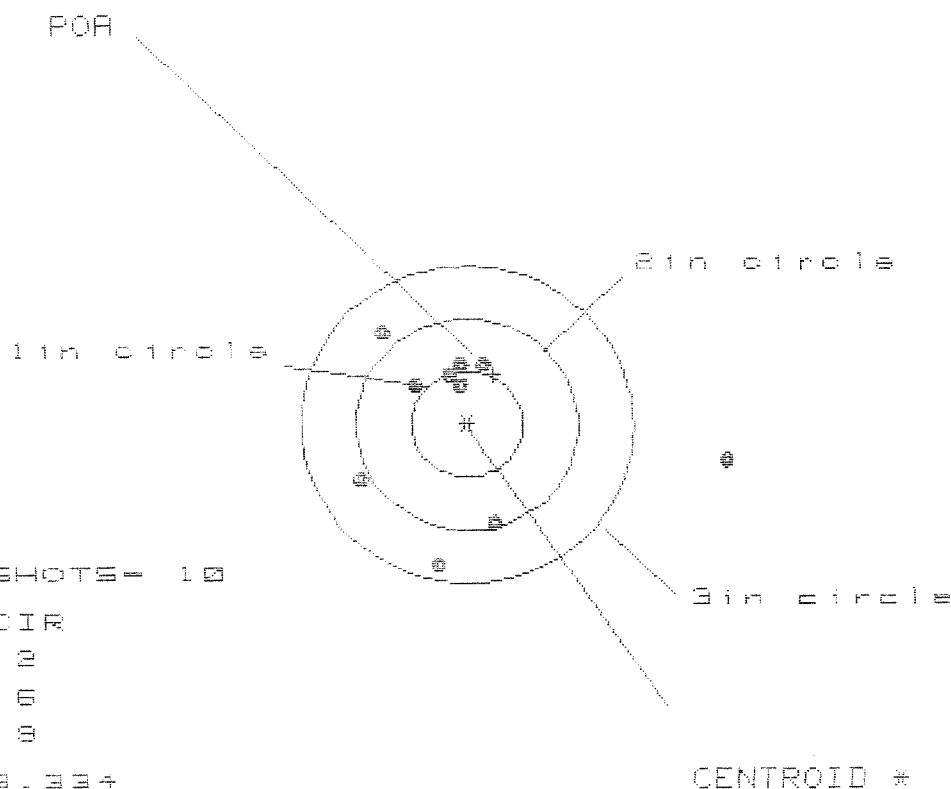
PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.307	1.146	.999
MINIMUM X	:	-1.449	-1.456	-1.313
MAXIMUM Y	:	.814	.745	.721
MINIMUM Y	:	-1.238	-1.307	-1.214
CENTROID X	:	-.303	-.142	-.285
CENTROID Y	:	.255	.324	.231
POA TO CENTROID in.	:	.396	.354	.367
MIN RADIUS	:	.149	.309	.141
MEAN RADIUS	:	1.039	.976	.909
MAX RADIUS	:	1.578	1.519	1.415
HORIZONTAL SPREAD	:	2.756	2.602	2.212
VERTICAL SPREAD	:	2.052	2.052	1.935
EXTREME SPREAD	:	3.109	2.621	2.223
NUMBER IN ONE INCH CIRCLE =			2	
NUMBER IN TWO INCH CIRCLE =			3	
NUMBER IN THREE INCH CIRCLE =			8	

16 Oct 1985

FILE:/PATTERNING/CENTERFIRE_PATT/06348386

CENTERFIRE PATTERNS

3



OF SHOTS= 10

IN CIR

1in = 2

2in = 6

3in = 9

HS= 3.334

VS= 2.224

GS= 3.341

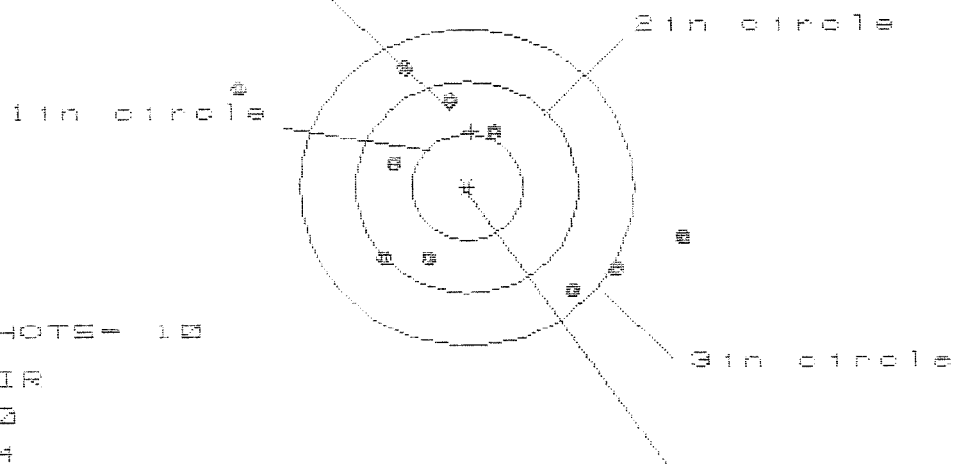
PATTERN #	3		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	2.341	.588	.583
MINIMUM X	-.993	-.733	-.738
MAXIMUM Y	.849	.812	.635
MINIMUM Y	-1.375	-1.412	-1.175
CENTROID X	-.237	-.497	-.588
CENTROID Y	-.473	-.436	-.259
POA TO CENTROID in.	.529	.661	.563
MIN RADIUS	.386	.383	.242
MEAN RADIUS	.968	.766	.610
MAX RADIUS	2.365	1.412	1.278
HORIZONTAL SPREAD	3.334	1.233	1.233
VERTICAL SPREAD	2.224	2.224	1.810
EXTREME SPREAD	3.341	2.282	2.061
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		6	
NUMBER IN THREE INCH CIRCLE =		9	

16 Oct 1989

FILE:/PATTERNING/CENTERFIRE_PATT/CG348986

CENTERFIRE PATTERNS # 4

POA



OF SHOTS- 10

IN CIR

1in = 0

2in = 4

3in = 7

HS= 4.052

VS= 2.091

GS= 4.259

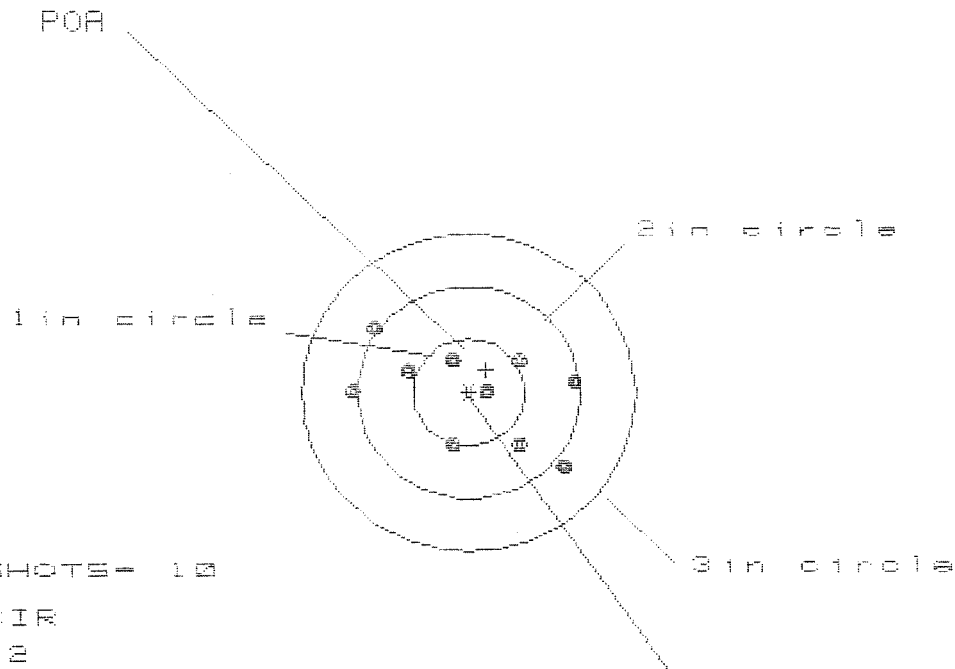
CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.976	1.745	1.322
MINIMUM X	-2.077	-1.037	-.819
MAXIMUM Y	1.092	1.189	1.148
MINIMUM Y	-.999	-.902	-.943
CENTROID X	-.043	.188	-.030
CENTROID Y	-.528	-.625	-.584
POA TO CENTROID in.	.529	.653	.584
MIN RADIUS	.643	.675	.688
MEAN RADIUS	1.242	1.141	1.022
MAX RADIUS	2.255	1.777	1.515
HORIZONTAL SPREAD	4.052	2.782	2.141
VERTICAL SPREAD	2.091	2.091	2.091
EXTREME SPREAD	4.259	2.921	2.644
NUMBER IN ONE INCH CIRCLE =	0		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	7		

16 Oct 1985

FILE:/PATTERNING/CENTERFIRE_PATT/C8348306

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1 in - 2

2 in - 7

3 in - 10

HS= 2.021

VS= 1.248

GS= 2.065

CENTROID *

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.954	.835	.924
MINIMUM X	:	-1.067	-.932	-.843
MAXIMUM Y	:	.606	.606	.525
MINIMUM Y	:	-.642	-.642	-.564
CENTROID X	:	-.154	-.035	-.124
CENTROID Y	:	-.210	-.210	-.129
POA TO CENTROID in.	:	.260	.212	.179
MIN RADIUS	:	.149	.036	.132
MEAN RADIUS	:	.691	.632	.593
MAX RADIUS	:	1.067	1.111	.993
HORIZONTAL SPREAD	:	2.021	1.767	1.767
VERTICAL SPREAD	:	1.248	1.248	1.089
EXTREME SPREAD	:	2.065	2.065	1.838
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		10	