

C6611633

MODEL 700™ M24

Model SMS™

Action

Barrel Length

Capacity

Order No. 5716

*Includes 1 in chamber.



SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6611633.___0

FILE DATE AND TIME: 08/17/2005 11:13

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

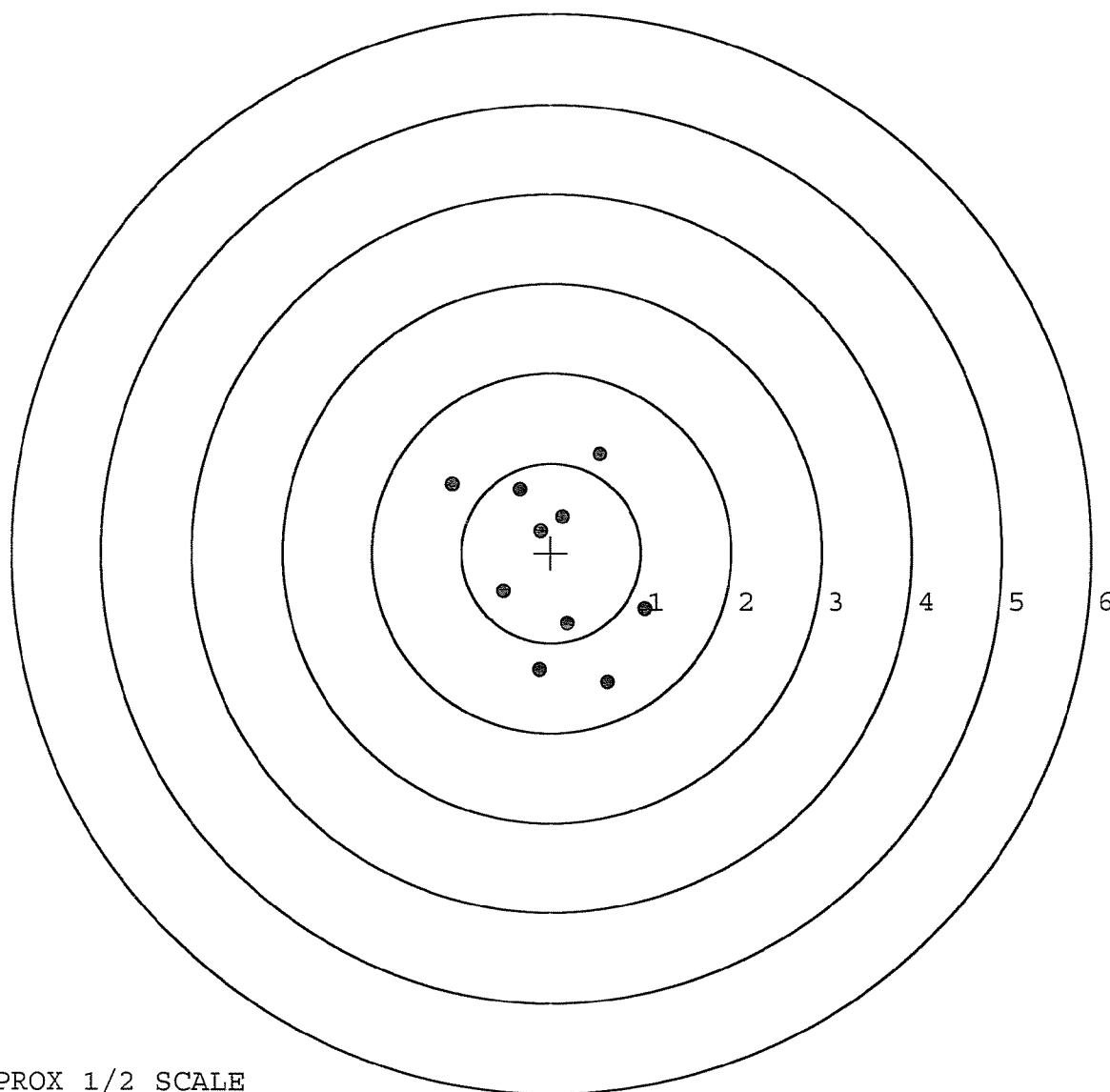
The Average X Centroid of the Five Target Set:	-0.053
The Average Y Centroid of the Five Target Set:	-0.096
The Average Point of Impact of the Five Target Set:	0.110
The Average Mean Radius of the Five Target Set:	0.836
The Distance from POA to Centroid Target #1:	0.139
The Distance from Centroid Target #2 to Centroid Target #1:	0.200
The Distance from Centroid Target #3 to Centroid Target #1:	0.247
The Distance from Centroid Target #4 to Centroid Target #1:	0.063
The Distance from Centroid Target #5 to Centroid Target #1:	0.081

SERIAL NUMBER: C6611633.___0
TARGET NUMBER: 1
FILE DATE: 08/17/2005
FILE TIME: 11:13

X CENTROID: 0.029
Y CENTROID: -0.136
POA TO CENTROID: 0.139
HORZ SPREAD: 2.147
VERT SPREAD: 2.544
GROUP SPREAD: 2.813
MIN RADIUS: 0.410
MAX RADIUS: 1.452
MEAN RADIUS: 0.972

IN 1 IN DIAMETER: 1
IN 2 IN DIAMETER: 5
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.633	-1.442
2:	1.042	-0.628
3:	0.182	-0.792
4:	-0.131	-1.304
5:	-0.530	-0.427
6:	0.131	0.403
7:	-0.119	0.246
8:	-0.352	0.710
9:	0.540	1.102
10:	-1.105	0.770

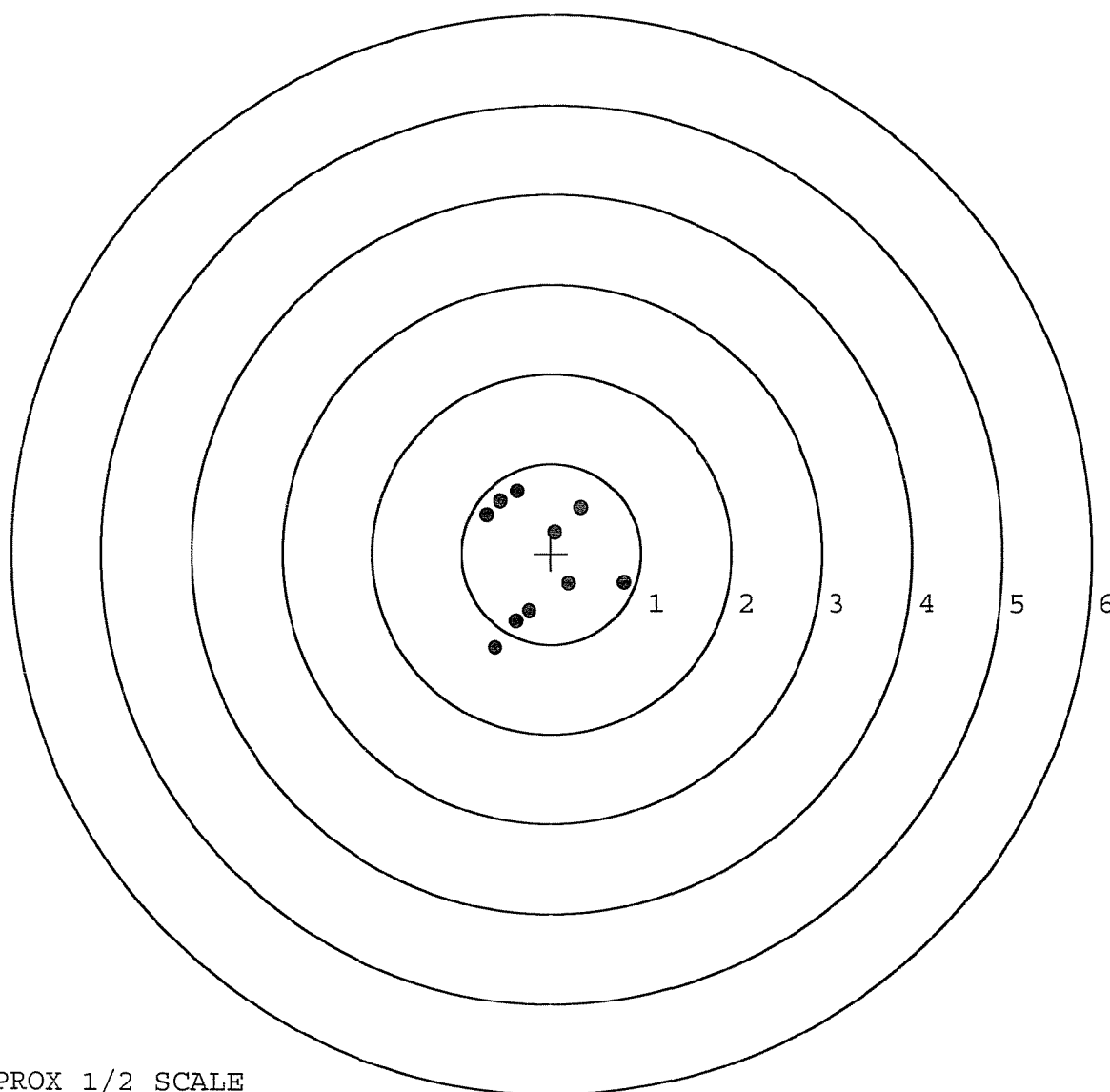


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611633.___0
TARGET NUMBER: 2
FILE DATE: 08/17/2005
FILE TIME: 11:13

X CENTROID: -0.158
Y CENTROID: -0.065
POA TO CENTROID: 0.171
HORZ SPREAD: 1.535
VERT SPREAD: 1.735
GROUP SPREAD: 1.825
MIN RADIUS: 0.362
MAX RADIUS: 1.083
MEAN RADIUS: 0.727
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.809	-0.330
2:	0.198	-0.336
3:	-0.252	-0.639
4:	-0.397	-0.753
5:	-0.628	-1.041
6:	0.333	0.511
7:	0.041	0.238
8:	-0.385	0.694
9:	-0.571	0.580
10:	-0.726	0.427



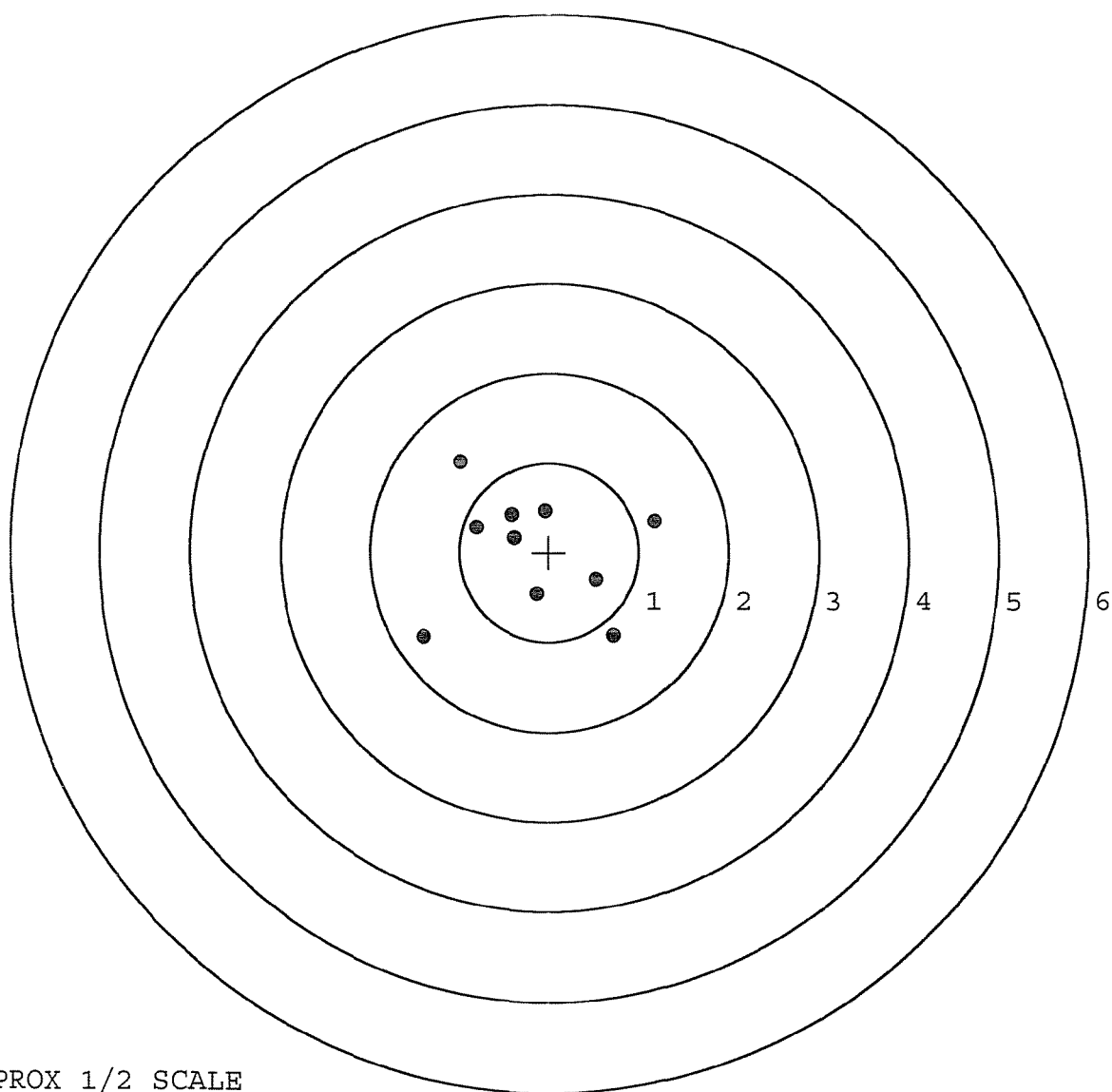
TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611633.____0
TARGET NUMBER: 3
FILE DATE: 08/17/2005
FILE TIME: 11:13

X CENTROID: -0.176
Y CENTROID: 0.001
POA TO CENTROID: 0.176
HORZ SPREAD: 2.576
VERT SPREAD: 1.955
GROUP SPREAD: 2.880
MIN RADIUS: 0.267
MAX RADIUS: 1.546
MEAN RADIUS: 0.870

IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 6
in 3 IN DIAMETER: 9

POINT#	X	Y
1:	0.722	-0.937
2:	0.522	-0.307
3:	1.179	0.340
4:	-0.139	-0.469
5:	-1.397	-0.947
6:	-0.813	0.278
7:	-0.041	0.462
8:	-0.419	0.420
9:	-0.387	0.165
10:	-0.989	1.008

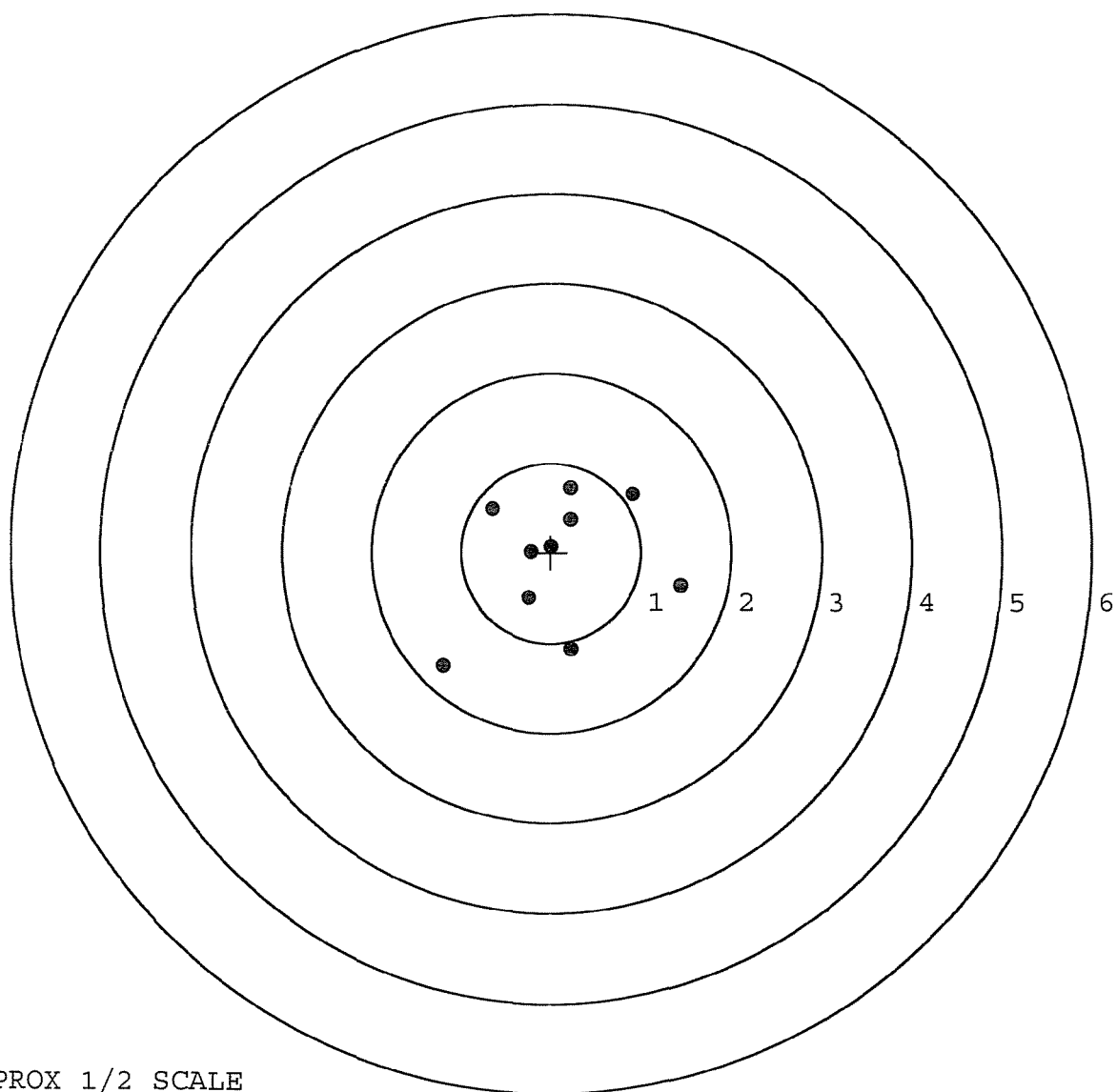


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611633. 0
TARGET NUMBER: 4
FILE DATE: 08/17/2005
FILE TIME: 11:13

POINT#	X	Y
1:	1.439	-0.369
2:	0.913	0.648
3:	0.233	-1.071
4:	-1.194	-1.259
5:	-0.247	-0.505
6:	0.223	0.721
7:	0.226	0.367
8:	-0.649	0.481
9:	0.006	0.066
10:	-0.223	0.011

X CENTROID: 0.073
Y CENTROID: -0.091
POA TO CENTROID: 0.116
HORZ SPREAD: 2.633
VERT SPREAD: 1.980
GROUP SPREAD: 2.842
MIN RADIUS: 0.171
MAX RADIUS: 1.723
MEAN RADIUS: 0.847
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 9



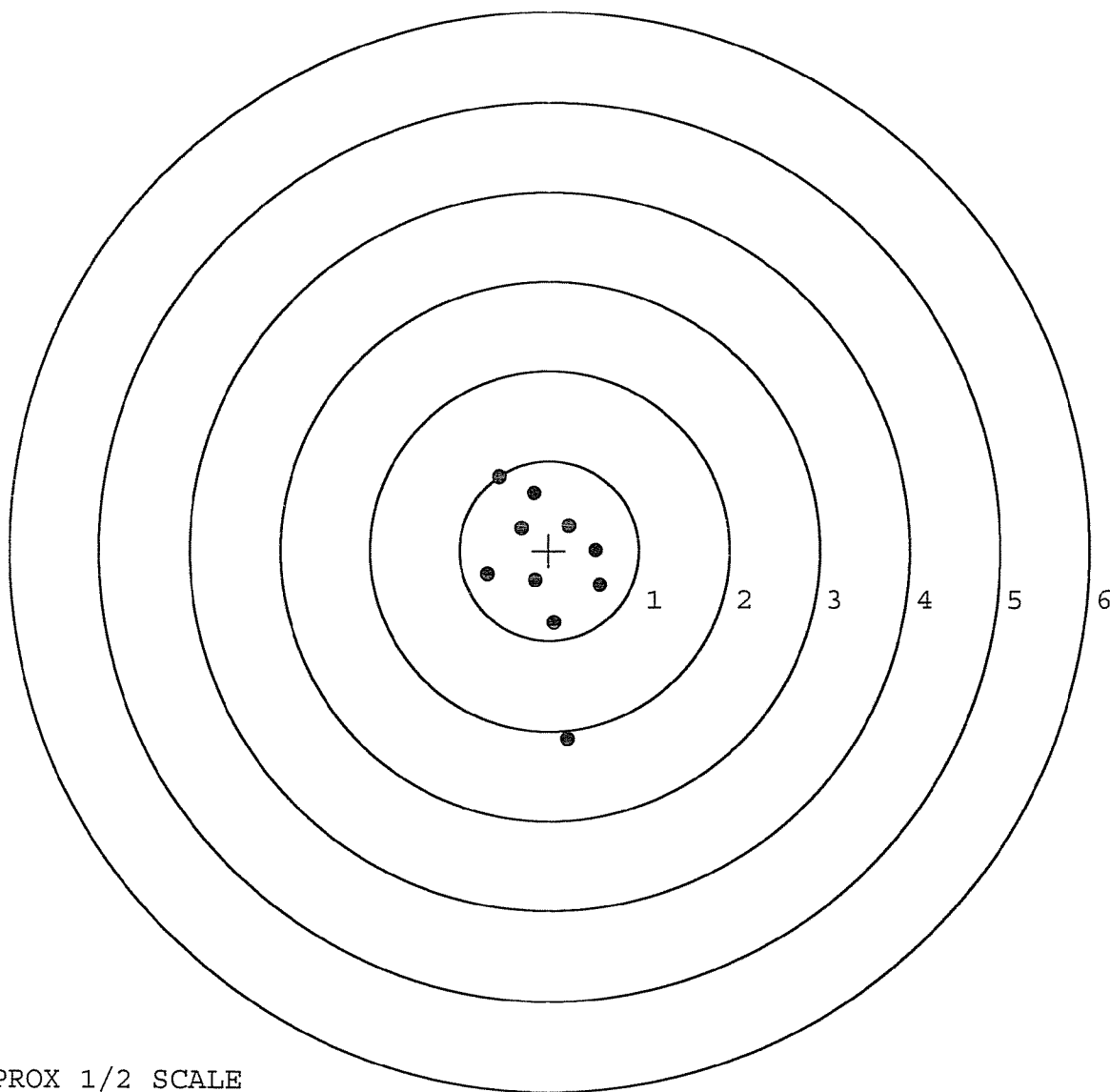
TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611633.___0
TARGET NUMBER: 5
FILE DATE: 08/17/2005
FILE TIME: 11:13

X CENTROID: -0.031
Y CENTROID: -0.190
POA TO CENTROID: 0.193
HORZ SPREAD: 1.250
VERT SPREAD: 2.910
GROUP SPREAD: 3.009
MIN RADIUS: 0.197
MAX RADIUS: 1.912
MEAN RADIUS: 0.764

IN 1 IN DIAMETER: 1
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 9

POINT#	X	Y
1:	0.210	-2.087
2:	0.560	-0.388
3:	0.519	-0.001
4:	0.226	0.278
5:	0.057	-0.808
6:	-0.160	-0.340
7:	-0.690	-0.271
8:	-0.172	0.646
9:	-0.554	0.823
10:	-0.311	0.247



TARGET APPROX 1/2 SCALE

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

R & E NUMBER	92450				
SERIAL NUMBER	C6611633				
LOG-IN DATE	2-3-05				
INSPECT AND VERIFY:					
OPERATION #	OPERATION NAME	DATE	INITIAL		
550	DIS-ASSEMBLE GUN	8-16-05	RTZ		
560 A	RE-BARREL	X	X		
B	DRILL AND TAP				
575	ASSEMBLE				
600	PROOF				
605	CHECK HEADSPACE				
610	DIS-ASSEMBLE GUN				
612	MAGNAFLUX				
615	ROLLMARK CALIBER				
618	ROTO-BLAST				
620	APPLY COATINGS				
625 A	FINAL ASSEMBLY	X	X		
B	TRIGGER PULL TEST				
C	SAFETY "ON" FORCE			8-18-05	AC
D	SAFETY "OFF" FORCE			8-18-05	AC
E	FIRING PIN INDENT			8-18-05	AC
640	TARGET + Clean	8-17-05	TRK		
655	FINAL INSPECT	8-18-05	AC		
660	PACK	9-19-05	RA		
		SHIP DATE			
QAR INSPECTION DATE					




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

REG. U.S. PAT. & TM. OFF.

MODEL 700™ H24

SERIAL NO.
C6611633

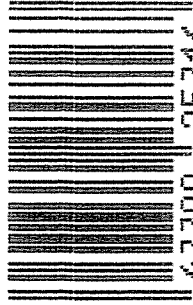
ORDER NO.
5716

MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada Marque Déposée.



5716 C6611633

UPC



0 47700 25716 7

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6611633

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	3 25	91	Rw
600	Proof	3 25	91	Rw
607	Check Headspace	3 25	91	Rw
610	Dis-assemble Gun	3 25	91	Rw
612	Magnaflux Barrel Action	3 28	91	KR
	Magnaflux Bolt	3 28	91	U
615	Rollmark Caliber	3 28	91	JS
617	Drill and Tap Sight Holes		APR 3 1991	FB
618	Polish Barrel		APR 3 1991	WB
620	Apply Coatings (Barrel Action)		4-11-91	JA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		4/16/91	Rw
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		4/16/91	Rw
	C) Inspect Ejector Hole for Chamfer		4/16/91	Rw
	D) Oil Firing Pin Ass'y		4/16/91	Rw
	E) Adjust Trigger Pull to Min Setting and Stake		5/3/91	JS

op. #	OP. NAME	READINGS			DATE	INIT		
625 cont.	F) Safety On Force	6	6	6	5/3/91	JM		
	G) Safety Off Force	4	4	4	5/3/91	JM		
	H) Trigger Pull Test & Retainability				5/3/91	JM		
	I) Firing Pin Indent	1022	1023	1023	5/3/91	OK		
	J) Assemble Stock				5/4/91	RW		
	K) Assemble Swivel Studs				5-10-91	AK		
	L) Attach Front and Rear Sight Assemblies				5/4/91	RW		
	M) Iron Sight Alignment				5/4/91	RW		
	N) Detach Front & Rear Sights & place in numbered container				5/4/91	RW		
	O) Attach Scope to Rifle				5/4/91	RW		
	P) Detach & Attach Scope 20 Times				5/4/91	RW		
640	Gallery Target & Test				5-4-91	DH		
	A) Time				5-4-91	DH		
	B) Malfunctions				5-4-91	DH		
	C) Pierced Primers				5-4-91	DH		
	D) Optical Clarity of Scope				5-4-91	DH		
645	Inspect for Live Ammo				5-4-91	DH		
655	Final Inspection							
	A) Headspace				5-10-91	AK		
	B) Trigger Pull	2.47	2.48	2.29	2.36	2.47	5/9/91	JM
	C) Function						5-10-91	AC
660	Pack						6-17-91	NF

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6611633

DATE 5/3/91

TESTER JM

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.45	2.21	2.40	2.47	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.38	2.35	2.44	2.48	
PULL #3	2.46	2.33	2.39	2.29	
PULL #4	2.40	2.36	2.38	2.36	
PULL #5	2.20	2.36	2.38	2.47	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.61	3.39		
PULL #2	3.52	3.28		
PULL #3	3.45	3.36		
PULL #4	3.48	3.26		
PULL #5	3.39	3.33		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.45	4.49		4.48
PULL #2	4.35	4.55		4.27
PULL #3	4.46	4.46		4.42
PULL #4	4.52	4.53		4.52
PULL #5	4.50	4.44		4.45
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6611633
4 May 1991

CENTROIDAL DISTANCES

Ø TO	1	.303916
1 TO	2	.217995
1 TO	3	.400762
1 TO	4	.480688
1 TO	5	.450877

$\bar{x}_2$ <----POA

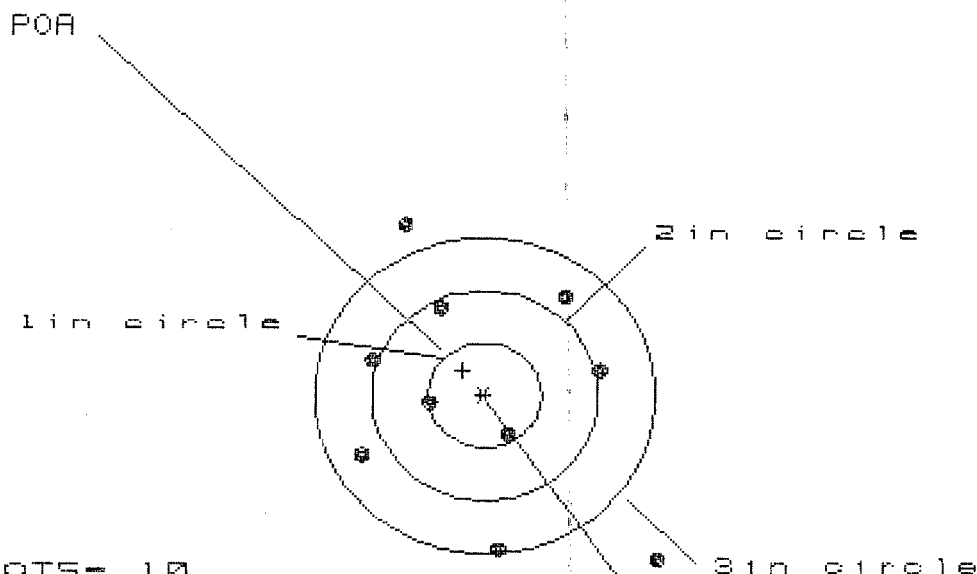
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0404
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0124
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0422601

THE AMR FOR THIS RIFLE IS: .9934

4 May 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6611633

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1 in - 1

2 in - 3

3 in - 8

HS- 2.574

VS= 3.202

GS= 3.880

CENTROID *

PATTERN #	:	1	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.502	1.198	1.133
MINIMUM X	:	-1.072	-.905	-.970
MAXIMUM Y	:	1.628	1.453	.947
MINIMUM Y	:	-1.574	-1.618	-1.436
CENTROID X	:	.189	.022	.087
CENTROID Y	:	-.238	-.063	-.245
POA TO CENTROID in.	:	.304	.067	.260
MIN RADIUS	:	.475	.443	.418
MEAN RADIUS	:	1.174	1.038	.965
MAX RADIUS	:	2.176	1.641	1.451
HORIZONTAL SPREAD	:	2.574	2.103	2.103
VERTICAL SPREAD	:	3.202	3.071	2.383
EXTREME SPREAD	:	3.880	3.172	2.448
NUMBER IN ONE INCH CIRCLE	=	1		
NUMBER IN TWO INCH CIRCLE	=	3		
NUMBER IN THREE INCH CIRCLE	=	8		

4 May 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6B11633

CENTERFIRE PATTERNS

2

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS - 10

IN CIR

1in = 1

2in = 6

3in = 10

HS = 1.249

VS = 2.574

GS = 2.574

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.695	.467	.459
MINIMUM X	:	-.554	-.477	-.485
MAXIMUM Y	:	1.215	1.082	.895
MINIMUM Y	:	-1.359	-1.492	-1.234
CENTROID X	:	.278	.201	.209
CENTROID Y	:	-.039	.094	.281
POA TO CENTROID in.	:	.281	.222	.350
MIN RADIUS	:	.476	.331	.149
MEAN RADIUS	:	.940	.858	.723
MAX RADIUS	:	1.387	1.494	1.317
HORIZONTAL SPREAD	:	1.249	.944	.944
VERTICAL SPREAD	:	2.574	2.574	2.129
EXTREME SPREAD	:	2.574	2.574	2.200
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		10	

4 May 1991

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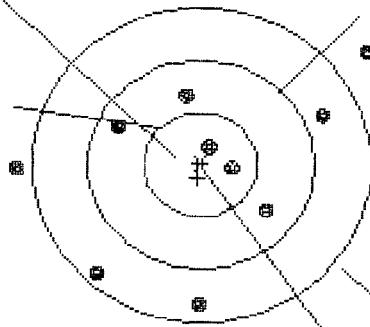
CENTERFIRE PATTERNS # 3

POA

1 in circle

2 in circle

3 in circle



CENTROID #

OF SHOTS- 10

IN CIR

1 in = 2

2 in = 5

3 in = 8

HS= 3.059

VS= 2.329

GS= 3.227

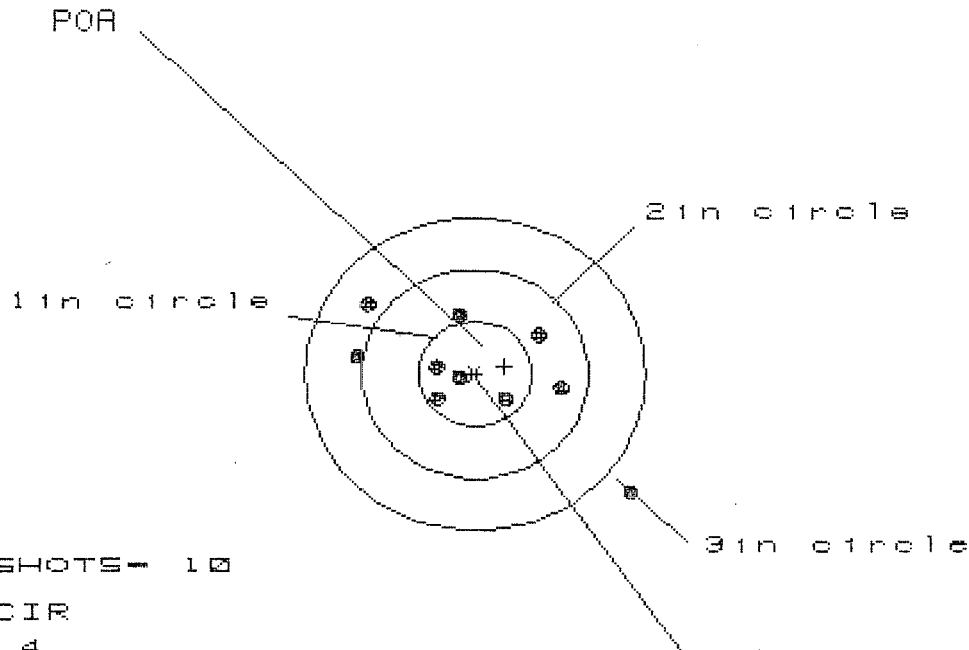
PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.472	1.240	1.063
MINIMUM X	:	-1.587	-1.424	-.963
MAXIMUM Y	:	1.044	.801	.817
MINIMUM Y	:	-1.285	-1.169	-1.153
CENTROID X	:	.028	-.135	.042
CENTROID Y	:	.129	.013	-.003
POA TO CENTROID in.	:	.132	.136	.043
MIN RADIUS	:	.209	.386	.297
MEAN RADIUS	:	1.003	.936	.841
MAX RADIUS	:	1.804	1.430	1.331
HORIZONTAL SPREAD	:	3.059	2.664	2.025
VERTICAL SPREAD	:	2.329	1.970	1.970
EXTREME SPREAD	:	3.227	2.696	2.506
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		8	

4 May 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6611633

CENTERFIRE PATTERNS

4



OF SHOTS- 10

IN CIR

1in - 4

2in - 7

3in - 9

HS- 2.332

VS- 1.835

GS- 2.957

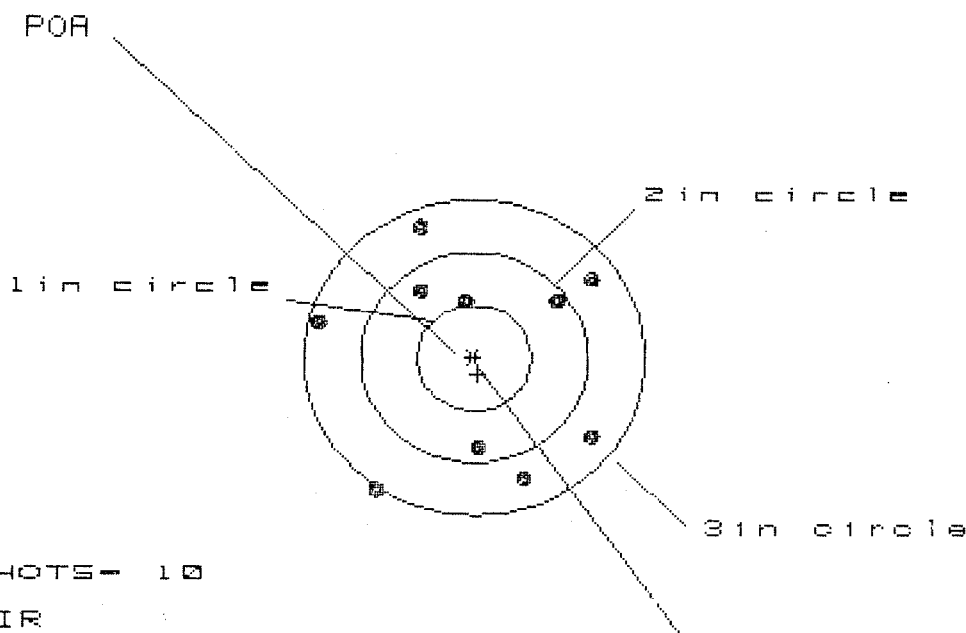
CENTROID #

PATTERN #	:	4	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.337	.903	.798
MINIMUM X	:	-.995	-.846	-.951
MAXIMUM Y	:	.658	.528	.552
MINIMUM Y	:	-1.177	-.343	-.277
CENTROID X	:	-.261	-.410	-.305
CENTROID Y	:	-.069	.061	-.004
POA TO CENTROID in.	:	.270	.414	.306
MIN RADIUS	:	.132	.205	.153
MEAN RADIUS	:	.728	.598	.539
MAX RADIUS	:	1.781	.986	.956
HORIZONTAL SPREAD	:	2.332	1.749	1.749
VERTICAL SPREAD	:	1.835	.871	.830
EXTREME SPREAD	:	2.957	1.927	1.782
NUMBER IN ONE INCH CIRCLE	=	4		
NUMBER IN TWO INCH CIRCLE	=	7		
NUMBER IN THREE INCH CIRCLE	=	9		

4 May 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8611633

CENTERFIRE PATTERNS # 5



OF SHOTS - 10

IN CIR

1 in = 0

2 in = 4

3 in = 9

HS = 2.413

VS = 2.483

GS = 2.771

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.046	.949	.766
MINIMUM X	:	-1.367	-1.464	-.786
MAXIMUM Y	:	1.233	1.094	1.115
MINIMUM Y	:	-1.250	-1.268	-1.243
CENTROID X	:	-.032	.065	.248
CENTROID Y	:	.155	.294	.273
POA TO CENTROID in.	:	.158	.301	.370
MIN RADIUS	:	.529	.431	.558
MEAN RADIUS	:	1.122	1.054	.993
MAX RADIUS	:	1.526	1.473	1.359
HORIZONTAL SPREAD	:	2.413	2.413	1.551
VERTICAL SPREAD	:	2.483	2.362	2.362
EXTREME SPREAD	:	2.771	2.583	2.556
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		9	