

C6522187

MODEL 700™ M24

Model SMS™

Action _____

Barrel Length _____

Capacity _____

Order No. 5716

*Includes 1 in chamber.



Serial Number: C6522187
Model: M24 SWS

RE00102778

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6522187.__0
FILE DATE AND TIME: 11/22/2005 22:17

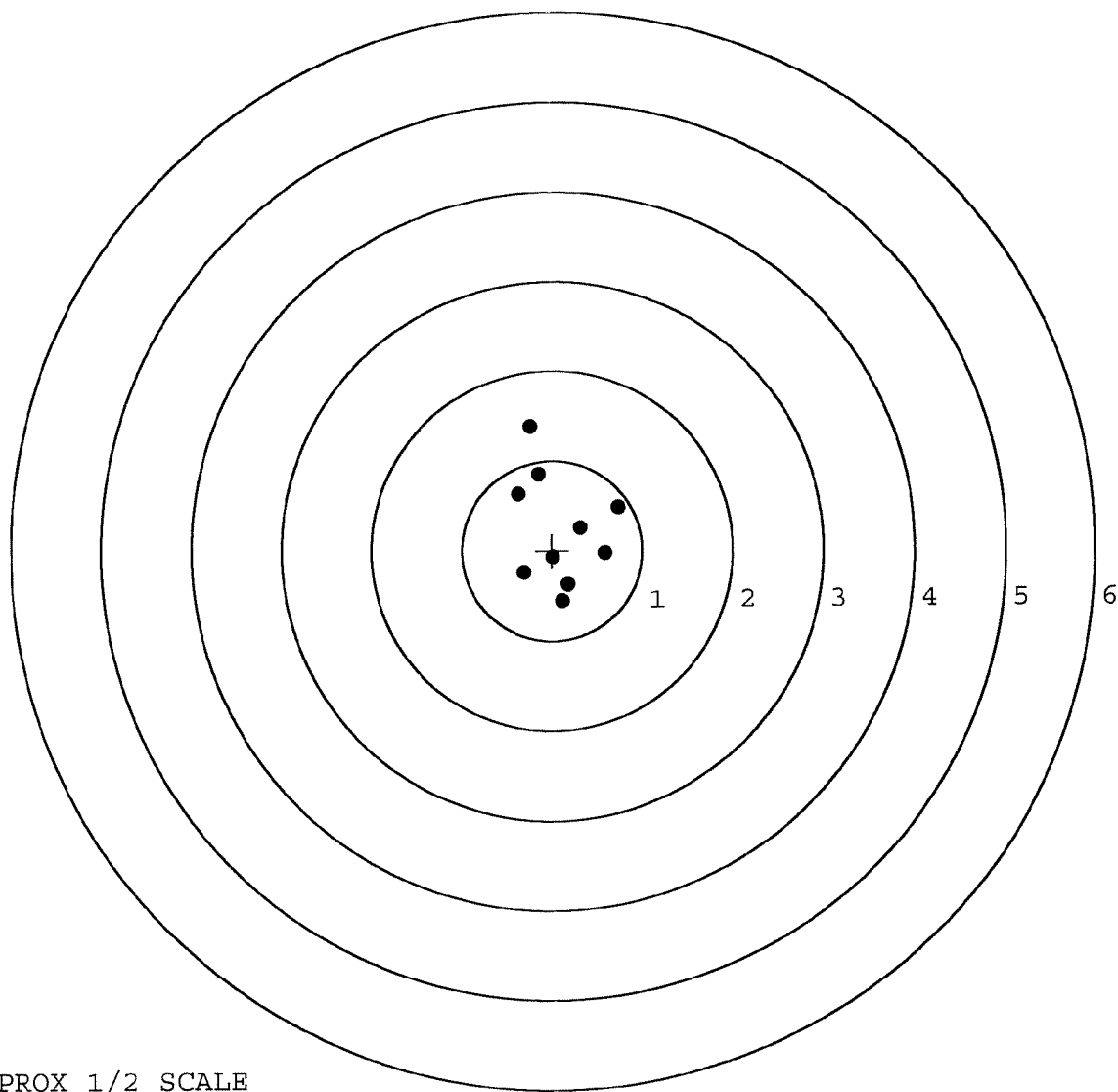
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.084
The Average Y Centroid of the Five Target Set:	0.015
The Average Point of Impact of the Five Target Set:	0.085
The Average Mean Radius of the Five Target Set:	0.607
The Distance from POA to Centroid Target #1:	0.243
The Distance from Centroid Target #2 to Centroid Target #1:	0.401
The Distance from Centroid Target #3 to Centroid Target #1:	0.406
The Distance from Centroid Target #4 to Centroid Target #1:	0.064
The Distance from Centroid Target #5 to Centroid Target #1:	0.387

SERIAL NUMBER: C6522187.___0
TARGET NUMBER: 1
FILE DATE: 11/22/2005
FILE TIME: 22:17

X CENTROID: 0.086
Y CENTROID: 0.227
POA TO CENTROID: 0.243
HORZ SPREAD: 1.112
VERT SPREAD: 1.951
GROUP SPREAD: 1.983
MIN RADIUS: 0.231
MAX RADIUS: 1.197
MEAN RADIUS: 0.633
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.316	0.252
2:	0.736	0.478
3:	-0.317	-0.249
4:	-0.376	0.631
5:	-0.147	0.850
6:	-0.242	1.379
7:	0.591	-0.036
8:	0.111	-0.572
9:	0.178	-0.381
10:	0.013	-0.078

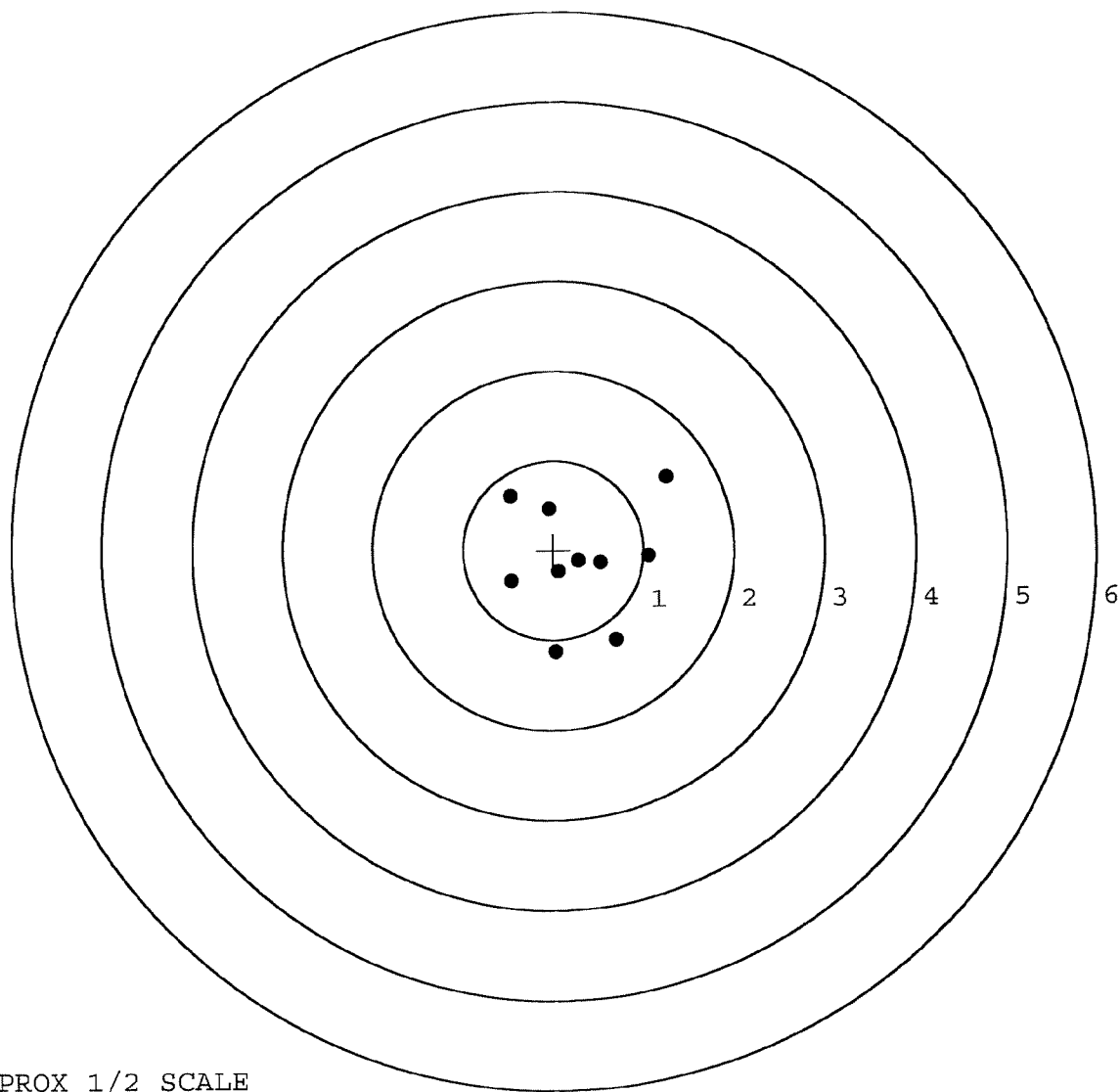


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6522187. 0
TARGET NUMBER: 2
FILE DATE: 11/22/2005
FILE TIME: 22:17

X CENTROID: 0.290
Y CENTROID: -0.117
POA TO CENTROID: 0.313
HORZ SPREAD: 1.733
VERT SPREAD: 1.949
GROUP SPREAD: 2.308
MIN RADIUS: 0.012
MAX RADIUS: 1.342
MEAN RADIUS: 0.718
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.055	-0.243
2:	0.279	-0.122
3:	0.526	-0.143
4:	1.058	-0.073
5:	1.259	0.811
6:	-0.474	0.613
7:	-0.472	-0.341
8:	-0.047	0.465
9:	0.693	-1.004
10:	0.022	-1.138

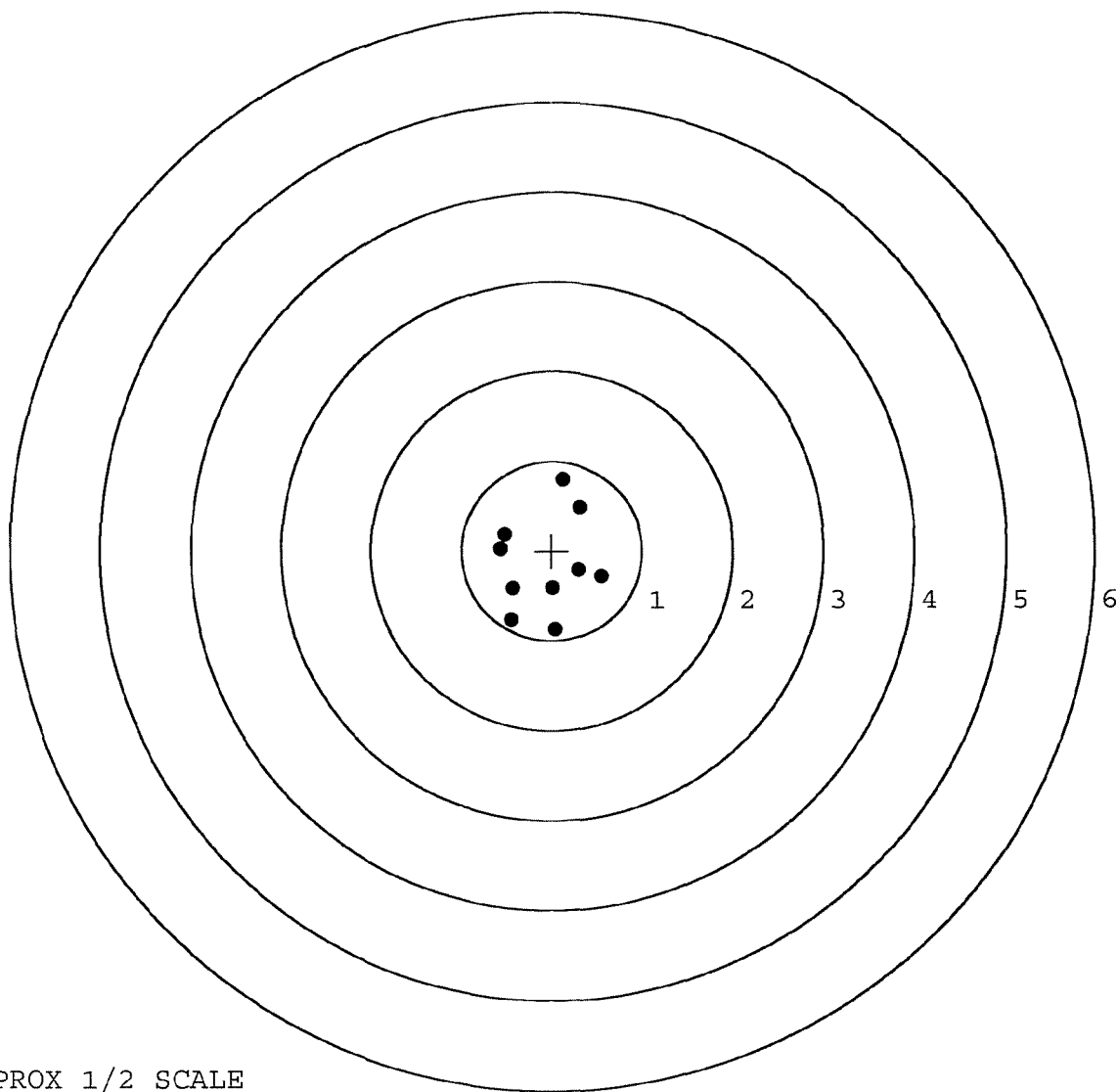


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6522187. __0
TARGET NUMBER: 3
FILE DATE: 11/22/2005
FILE TIME: 22:17

POINT#	X	Y
1:	0.299	-0.216
2:	0.011	-0.419
3:	0.035	-0.886
4:	0.549	-0.281
5:	0.308	0.488
6:	0.126	0.795
7:	-0.526	0.192
8:	-0.456	-0.771
9:	-0.434	-0.417
10:	-0.568	0.027

X CENTROID: -0.066
Y CENTROID: -0.149
POA TO CENTROID: 0.163
HORZ SPREAD: 1.117
VERT SPREAD: 1.681
GROUP SPREAD: 1.683
MIN RADIUS: 0.281
MAX RADIUS: 0.963
MEAN RADIUS: 0.602
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10

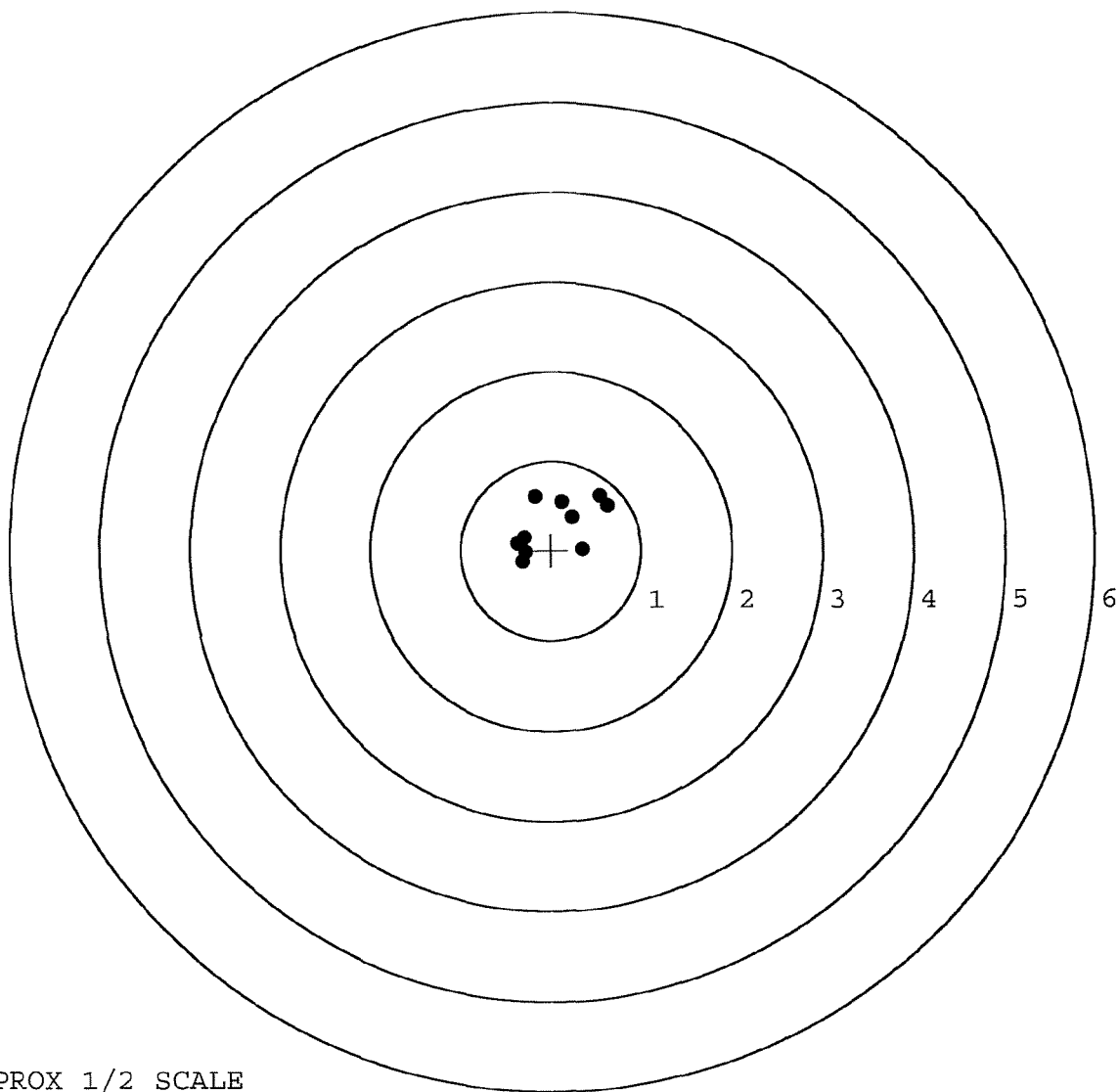


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6522187. 0
TARGET NUMBER: 4
FILE DATE: 11/22/2005
FILE TIME: 22:17

X CENTROID: 0.040
Y CENTROID: 0.272
POA TO CENTROID: 0.275
HORZ SPREAD: 1.004
VERT SPREAD: 0.746
GROUP SPREAD: 1.133
MIN RADIUS: 0.213
MAX RADIUS: 0.628
MEAN RADIUS: 0.432
IN 1 IN DIAMETER: 7
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.285	-0.026
2:	-0.294	0.140
3:	-0.183	0.601
4:	0.114	0.541
5:	0.229	0.370
6:	0.624	0.503
7:	0.537	0.617
8:	0.351	0.017
9:	-0.380	0.084
10:	-0.316	-0.129

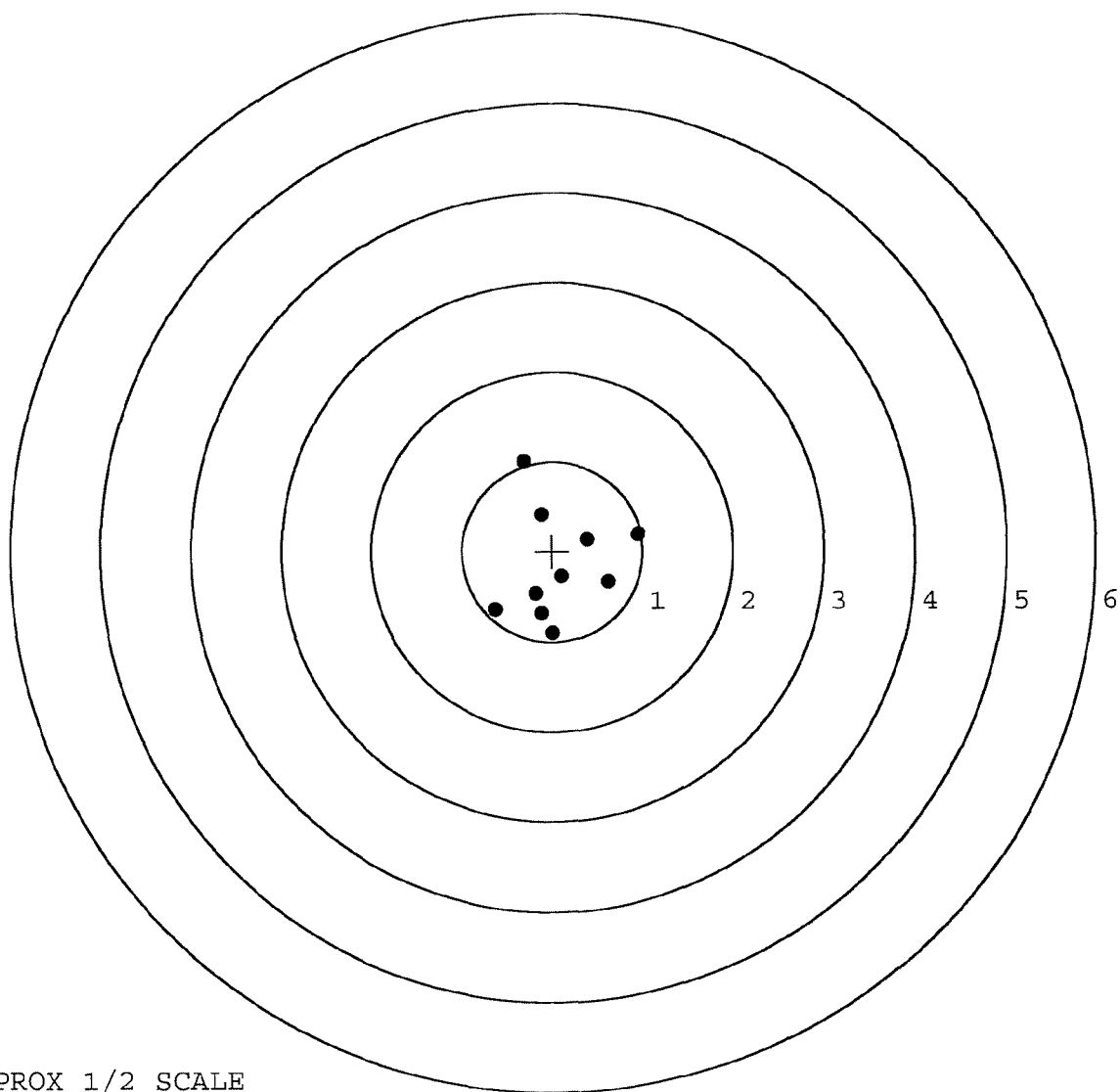


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6522187. __0
TARGET NUMBER: 5
FILE DATE: 11/22/2005
FILE TIME: 22:17

X CENTROID: 0.069
Y CENTROID: -0.159
POA TO CENTROID: 0.173
HORZ SPREAD: 1.586
VERT SPREAD: 1.910
GROUP SPREAD: 1.936
MIN RADIUS: 0.131
MAX RADIUS: 1.223
MEAN RADIUS: 0.649
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.101	-0.286
2:	-0.190	-0.467
3:	-0.123	-0.691
4:	0.004	-0.908
5:	-0.634	-0.645
6:	0.391	0.134
7:	0.620	-0.336
8:	0.952	0.191
9:	-0.121	0.413
10:	-0.314	1.002



TARGET APPROX 1/2 SCALE

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

R & E NUMBER	10 2778		Camp Shelby
SERIAL NUMBER	C 6522187		
LOG-IN DATE	10-26-05		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIALS
550	DIS-ASSEMBLE GUN	11-2-05	AC
560 A	RE-BARREL	11-7-05	AC
B	DRILL AND TAP	11-11-05	BR
575	ASSEMBLE	11-14-05	CD
600	PROOF	11-14-05	CD
605	CHECK HEADSPACE	11-14-05	CD
610	DIS-ASSEMBLE GUN	11-14-05	CD
612	MAGNAFLUX	11-15-05	WMB
615	ROLLMARK CALIBER	11-15-05	CW
618	ROTO-BLAST	11-16-05	LB
620	APPLY COATINGS	11-16-05	MAP
625 A	FINAL ASSEMBLY	11-21-05	AC
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE	11-23-05	AC
D	SAFETY "OFF" FORCE	11-23-05	AC
E	FIRING PIN INDENT	11-23-05	AC
640	TARGET	11/22/05	WMB
655	FINAL INSPECT	11-23-05	AC
660	PACK	12-1-05	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

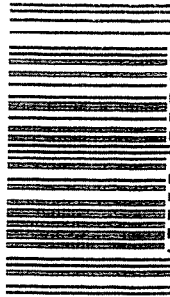
SERIAL NO.
C6522187

ORDER NO.
5716

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

Q1

UPC



0 47700 25716 7



5716 C6522187

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6522187
9 Sep 1990

CENTROIDAL DISTANCES

0 TO	1	.116709
1 TO	2	.297545
1 TO	3	.107448
1 TO	4	.127613
1 TO	5	.199692

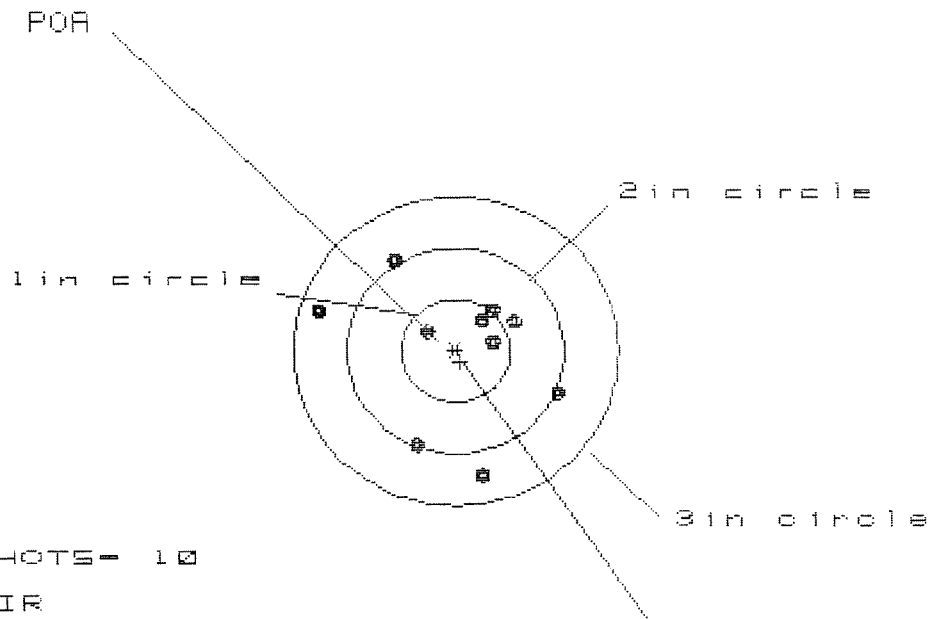
←----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.173
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .156
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .232948
THE AMR FOR THIS RIFLE IS: .9024

9 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06522187

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1in = 3

2in = 6

3in = 10

HS= 2.151

VS= 2.079

ES= 2.276

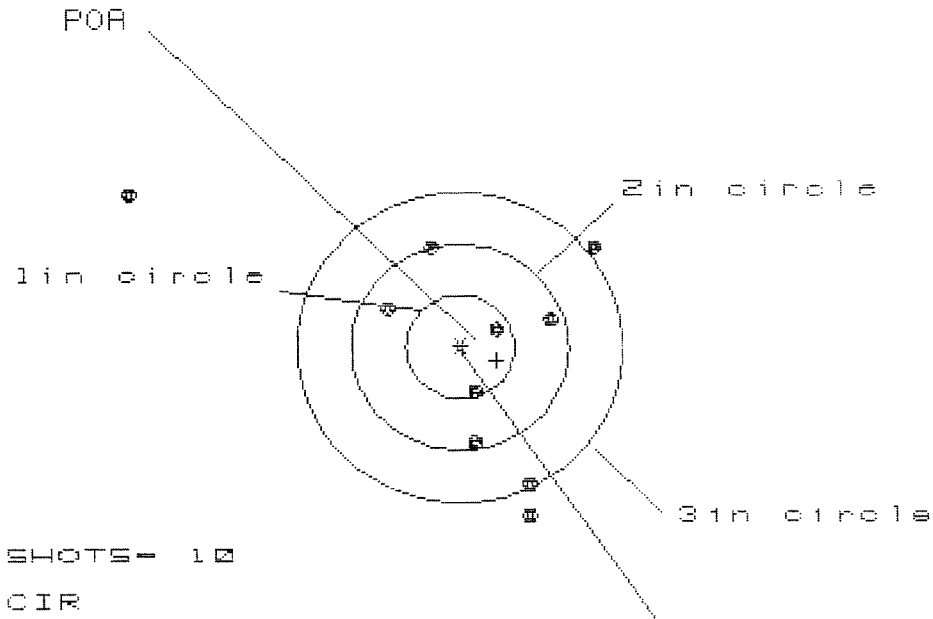
CENTROID #

PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.922	.785	.799
MINIMUM X	:	-1.229	-.731	-.717
MAXIMUM Y	:	.872	.913	.767
MINIMUM Y	:	-1.207	-1.166	-1.038
CENTROID X	:	-.039	.098	.084
CENTROID Y	:	.110	.069	.215
POA TO CENTROID in.	:	.116	.119	.230
MIN RADIUS	:	.316	.205	.188
MEAN RADIUS	:	.772	.695	.594
MAX RADIUS	:	1.283	1.171	1.156
HORIZONTAL SPREAD	:	2.151	1.516	1.516
VERTICAL SPREAD	:	2.079	2.079	1.806
EXTREME SPREAD	:	2.276	2.242	1.964
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		10	

9 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/08522187

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 5

3 in = 6

HS= 4.293

VS= 3.113

GS= 4.795

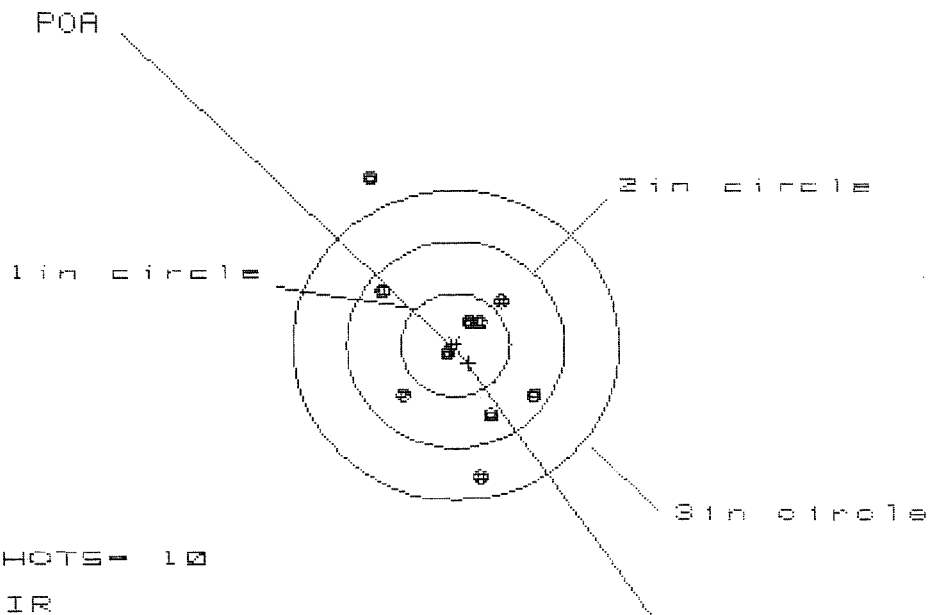
CENTROID *

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.236	.896	.927
MINIMUM X	:	-3.057	-.986	-.955
MAXIMUM Y	:	1.488	1.152	.969
MINIMUM Y	:	-1.625	-1.460	-1.376
CENTROID X	:	-.336	.004	-.027
CENTROID Y	:	.128	-.038	.145
POR TO CENTROID in.	:	.359	.038	.147
MIN RADIUS	:	.419	.354	.193
MEAN RADIUS	:	1.273	.981	.899
MAX RADIUS	:	3.400	1.482	1.422
HORIZONTAL SPREAD	:	4.293	1.882	1.882
VERTICAL SPREAD	:	3.113	2.612	2.345
EXTREME SPREAD	:	4.795	2.741	2.519
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		6	

9 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06522187

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 3

2 in = 8

3 in = 9

HS= 1.577

VS= 2.913

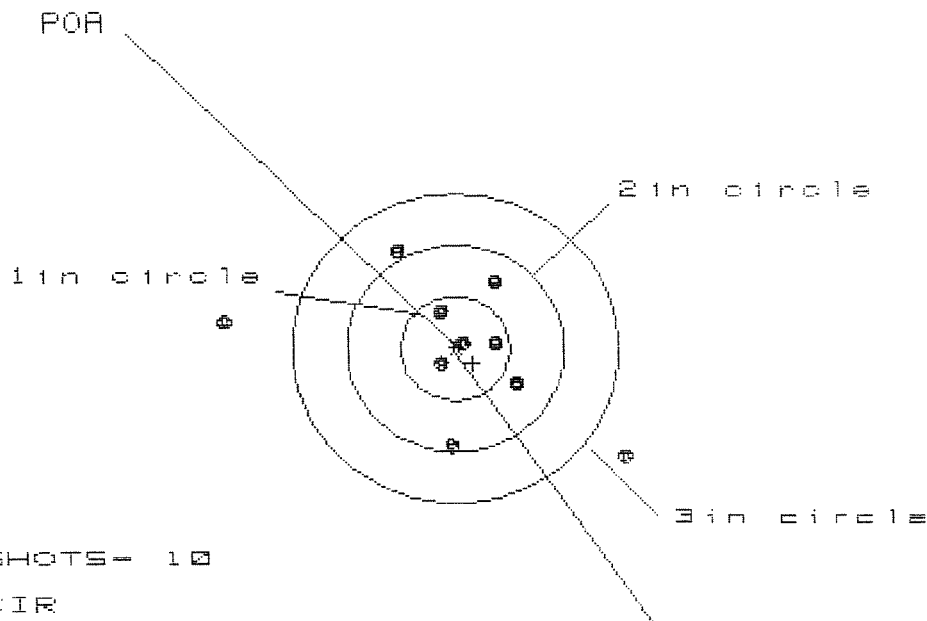
GS= 3.093

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.751	.659	.674
MINIMUM X	:	-.826	-.768	-.753
MAXIMUM Y	:	1.608	.715	.574
MINIMUM Y	:	-1.305	-1.126	-.656
CENTROID X	:	-.123	-.031	-.046
CENTROID Y	:	.177	-.002	.139
POA TO CENTROID in.	:	.215	.031	.147
MIN RADIUS	:	.081	.193	.135
MEAN RADIUS	:	.757	.645	.553
MAX RADIUS	:	1.808	1.133	.947
HORIZONTAL SPREAD	:	1.577	1.427	1.427
VERTICAL SPREAD	:	2.913	1.841	1.230
EXTREME SPREAD	:	3.093	2.045	1.734
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		9	

9 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6582187

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1in = 4

2in = 7

3in = 8

HS= 3.685

VS= 2.018

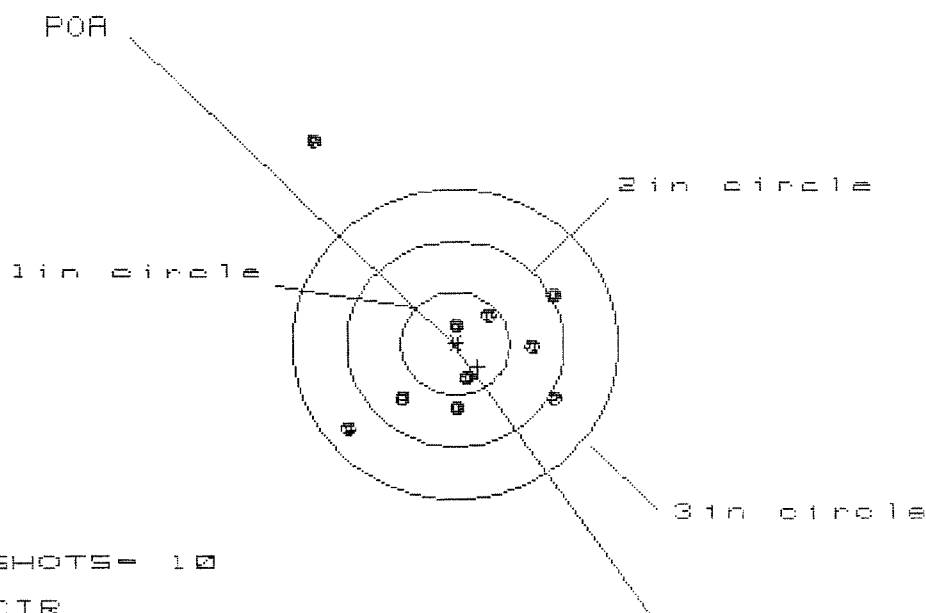
GS= 3.922

PATTERN #	4
SHOTS (BEST OF)	10
MAXIMUM X	1.588
MINIMUM X	-2.097
MAXIMUM Y	.954
MINIMUM Y	-1.064
CENTROID X	-.162
CENTROID Y	.144
POA TO CENTROID in.	.217
MIN RADIUS	.122
MEAN RADIUS	.846
MAX RADIUS	2.115
HORIZONTAL SPREAD	3.685
VERTICAL SPREAD	2.018
EXTREME SPREAD	3.922
NUMBER IN ONE INCH CIRCLE =	4
NUMBER IN TWO INCH CIRCLE =	7
NUMBER IN THREE INCH CIRCLE =	8

9 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8522187

CENTERFIRE PATTERNS # 5



OF SHOTS= 10

IN CIR

1in = 3

2in = 6

3in = 9

HS= 2.215

VS= 2.811

GS= 3.336

CENTROID #

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.988	.763	.614
MINIMUM X	:	-1.307	-1.188	-.754
MAXIMUM Y	:	1.981	.727	.651
MINIMUM Y	:	-.830	-.610	-.452
CENTROID X	:	-.205	-.060	.089
CENTROID Y	:	.221	.001	.077
POA TO CENTROID in.	:	.302	.060	.117
MIN RADIUS	:	.175	.167	.317
MEAN RADIUS	:	.864	.651	.558
MAX RADIUS	:	2.373	1.336	.864
HORIZONTAL SPREAD	:	2.215	1.951	1.368
VERTICAL SPREAD	:	2.811	1.337	1.103
EXTREME SPREAD	:	3.336	2.327	1.675
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS
2.50# ± .50#
3.00# ± .75#
4.00# ± 1.00#

SERIAL NO. 06522187

DATE 8/31/90

TESTER RU

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.22	2.14	2.20	2.29	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.23	2.20	2.18	2.21	
PULL #3	2.01	2.13	2.14	2.23	
PULL #4	2.34	2.22	2.10	2.17	
PULL #5	2.36	2.09	2.13	2.22	
TOTAL	11.16	10.78	10.75	11.12	
AVG.	2.232	2.156	2.15	2.22	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.40	3.36		
PULL #2	3.38	3.35		
PULL #3	3.36	3.41		
PULL #4	3.39	3.36		
PULL #5	3.34	3.44		
TOTAL	16.87	16.92		
AVG.	3.374	3.384		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.22	4.16		4.15
PULL #2	4.17	4.14		4.12
PULL #3	4.18	4.13		4.24
PULL #4	4.16	4.15		4.28
PULL #5	4.20	4.07		4.12
TOTAL	20.93	20.65		20.91
AVG.	4.186	4.13		4.182

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6522187

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	8 2	90	RW
600	Proof	8 2	90	RW
607	Check Headspace	8 2	90	RW
610	Dis-assemble Gun	8 2	90	RW
612	Magnaflux Barrel Action		8/1/90	KR
	Magnaflux Bolt		8/1/90	KR
615	Rollmark Caliber		8/7/90	LS
617	Drill and Tap Sight Holes		8/10/90	FB
618	Polish Barrel RB		8/14/90	WB
620	Apply Coatings (Barrel Action)		8/24/90	JA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		8/27/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		8/27/90	RW
	C) Inspect Ejector Hole for Chamfer		8/27/90	RW
	D) Oil Firing Pin Ass'y		8/27/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		8/31/90	JA

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4	4	4			9/5/90	WB
	G) Safety Off Force	2 1/2	2 1/2	2 1/2			9/5/90	WB
	H) Trigger Pull Test & Retainability						8/31/90	W
	I) Firing Pin Indent	.0225	.0225	.0225			9/5/90	WB
	J) Assemble Stock						9/9/90	RW
	K) Assemble Swivel Studs						9/11/90	W
	L) Attach Front and Rear Sight Assemblies						9/9/90	RW
	M) Iron Sight Alignment						9/9/90	RW
	N) Detach Front & Rear Sights & place in numbered container						9/9/90	RW
	O) Attach Scope to Rifle						9/9/90	W
	P) Detach & Attach Scope 20 Times						9/9/90	W
640	Gallery Target & Test						9/9/90	W
	A) Time						9/9/90	W
	B) Malfunctions						9/9/90	W
	C) Pierced Primers						9/9/90	W
	D) Optical Clarity of Scope						9/9/90	W
645	Inspect for Live Ammo						9/9/90	W
655	Final Inspection							
	A) Headspace						9/11/90	W
	B) Trigger Pull	2.29	2.21	2.23	2.17	2.22	9/10/90	WB
	C) Function						9/11/90	W
660	Pack						9/18/90	W