

C6522189

MODEL 700™ M24

Model **SWS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6522189.___0

FILE DATE AND TIME: 11/18/2005 15:00

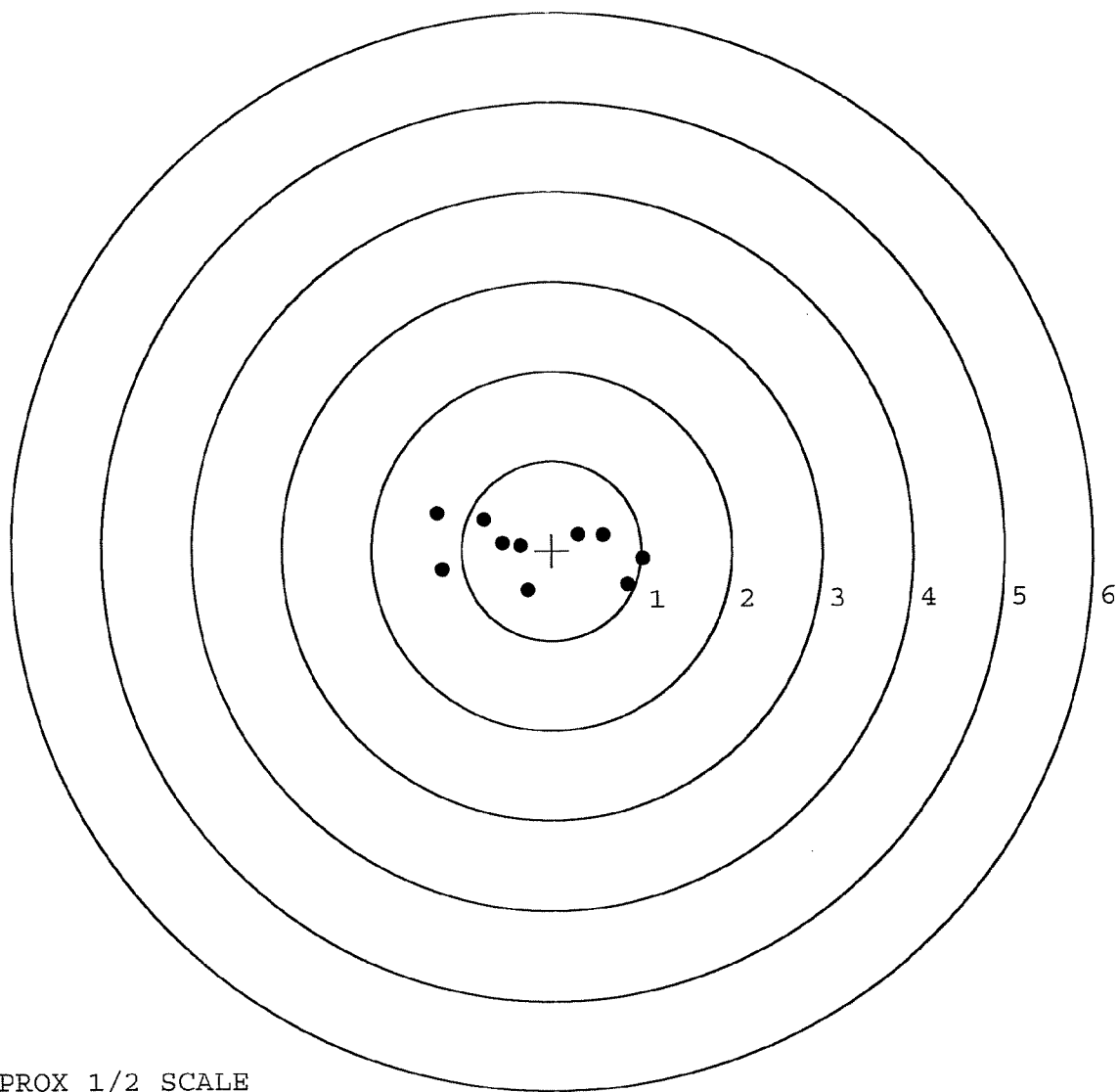
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.097
The Average Y Centroid of the Five Target Set:	-0.052
The Average Point of Impact of the Five Target Set:	0.110
The Average Mean Radius of the Five Target Set:	0.642
The Distance from POA to Centroid Target #1:	0.170
The Distance from Centroid Target #2 to Centroid Target #1:	0.069
The Distance from Centroid Target #3 to Centroid Target #1:	0.162
The Distance from Centroid Target #4 to Centroid Target #1:	0.137
The Distance from Centroid Target #5 to Centroid Target #1:	0.149

SERIAL NUMBER: C6522189. __0
TARGET NUMBER: 1
FILE DATE: 11/18/2005
FILE TIME: 15:00

X CENTROID: -0.169
Y CENTROID: 0.013
POA TO CENTROID: 0.170
HORZ SPREAD: 2.285
VERT SPREAD: 0.864
GROUP SPREAD: 2.345
MIN RADIUS: 0.184
MAX RADIUS: 1.187
MEAN RADIUS: 0.747
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 6
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.837	-0.382
2:	1.012	-0.105
3:	0.570	0.167
4:	0.296	0.174
5:	-0.269	-0.441
6:	-0.348	0.058
7:	-0.550	0.087
8:	-0.751	0.353
9:	-1.273	0.423
10:	-1.216	-0.208



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6522189. __0

TARGET NUMBER: 2

FILE DATE: 11/18/2005

FILE TIME: 15:00

POINT#	X	Y
1:	0.508	-0.661
2:	0.481	-0.022
3:	-0.092	-0.755
4:	-0.436	1.086
5:	-0.741	0.288
6:	0.151	0.403
7:	0.002	0.113
8:	-0.102	-0.010
9:	-0.260	-0.141
10:	-0.517	-0.269

X CENTROID: -0.101

Y CENTROID: 0.003

POA TO CENTROID: 0.101

HORZ SPREAD: 1.249

VERT SPREAD: 1.841

GROUP SPREAD: 1.986

MIN RADIUS: 0.013

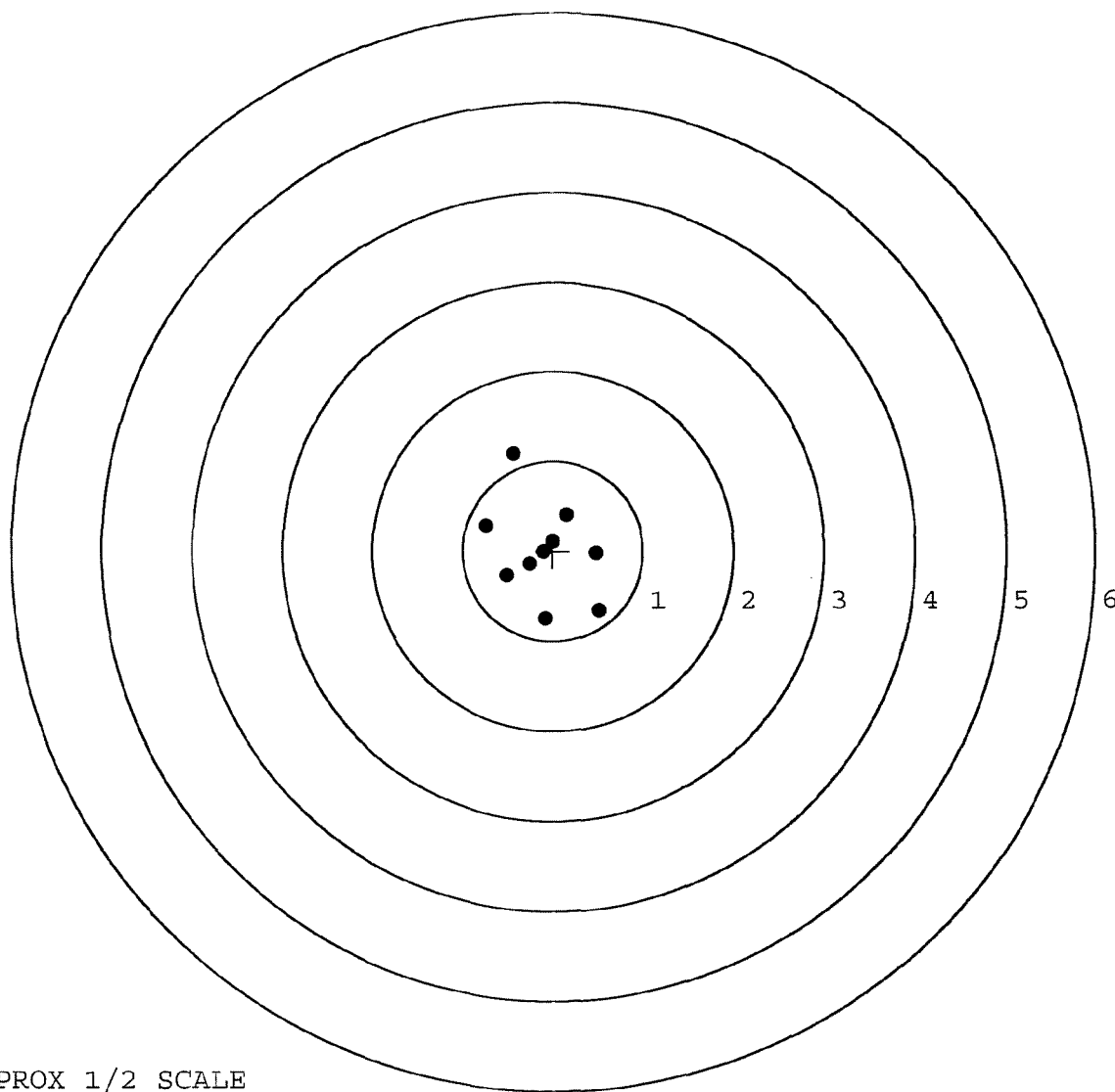
MAX RADIUS: 1.134

MEAN RADIUS: 0.542

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

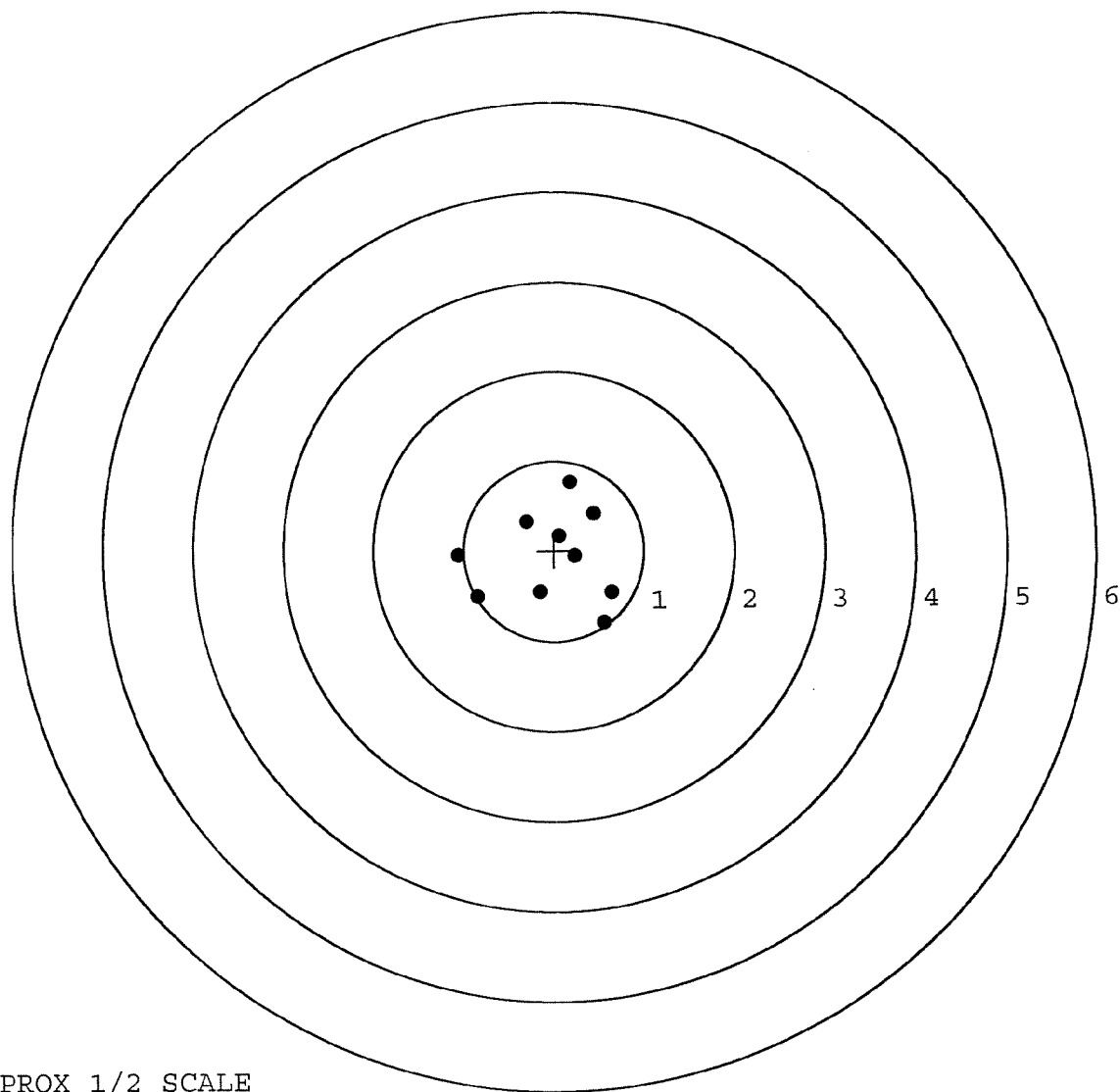


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6522189. __0
 TARGET NUMBER: 3
 FILE DATE: 11/18/2005
 FILE TIME: 15:00

X CENTROID: -0.028
 Y CENTROID: -0.067
 POA TO CENTROID: 0.072
 HORZ SPREAD: 1.702
 VERT SPREAD: 1.559
 GROUP SPREAD: 1.778
 MIN RADIUS: 0.244
 MAX RADIUS: 1.038
 MEAN RADIUS: 0.660
 # IN 1 IN DIAMETER: 4
 # IN 2 IN DIAMETER: 9
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.549	-0.794
2:	0.636	-0.464
3:	0.443	0.412
4:	0.182	0.765
5:	-0.302	0.326
6:	0.057	0.162
7:	0.232	-0.060
8:	-0.159	-0.458
9:	-0.852	-0.506
10:	-1.066	-0.051



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6522189. __0

TARGET NUMBER: 4

FILE DATE: 11/18/2005

FILE TIME: 15:00

POINT#	X	Y
1:	0.735	0.472
2:	0.542	0.438
3:	0.205	0.332
4:	0.296	-0.232
5:	-0.404	0.614
6:	-0.140	-0.342
7:	-0.355	-0.946
8:	-0.715	-0.679
9:	-0.557	-0.440
10:	-0.851	-0.385

X CENTROID: -0.124

Y CENTROID: -0.117

POA TO CENTROID: 0.171

HORZ SPREAD: 1.586

VERT SPREAD: 1.560

GROUP SPREAD: 1.851

MIN RADIUS: 0.226

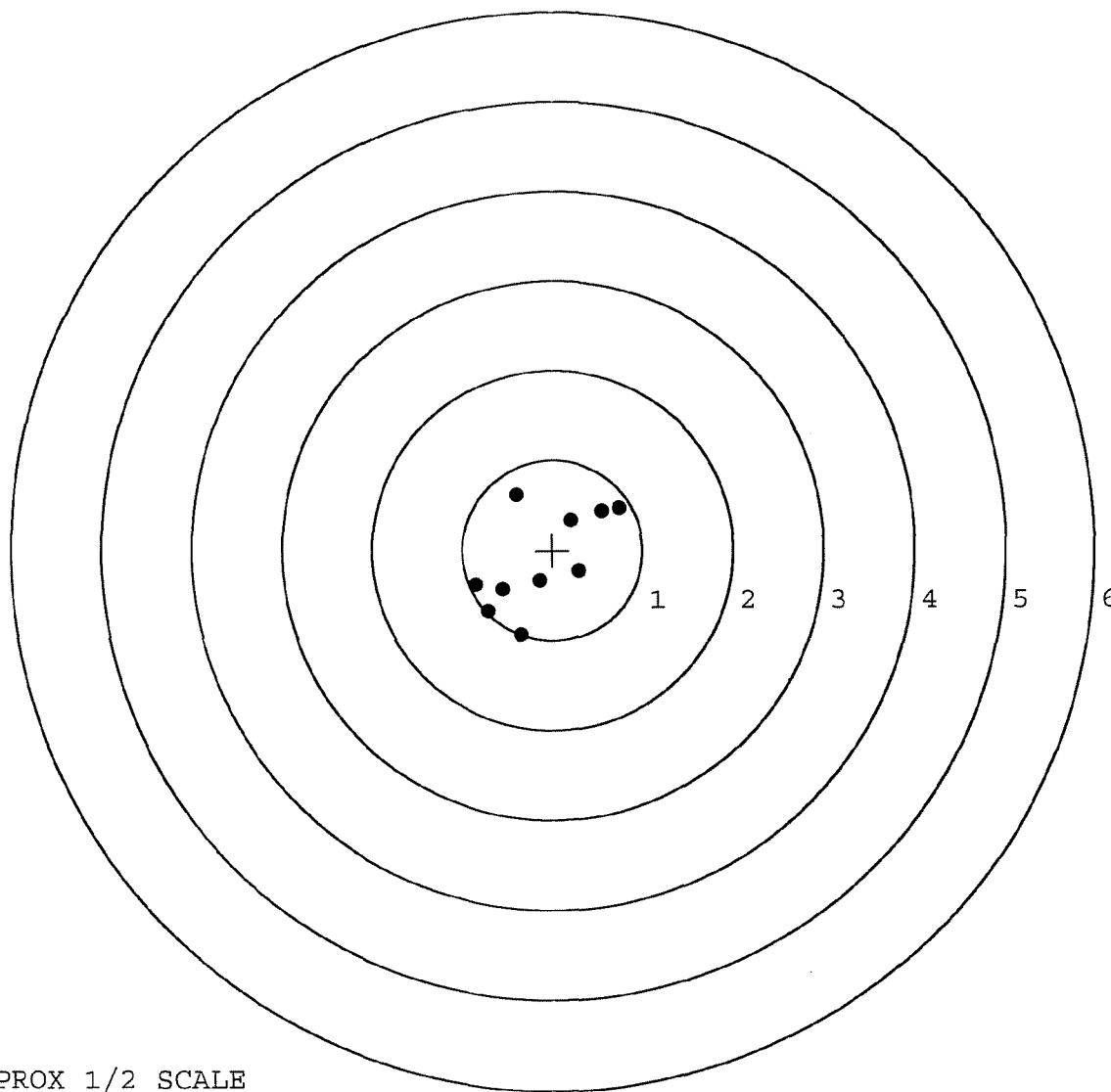
MAX RADIUS: 1.042

MEAN RADIUS: 0.690

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

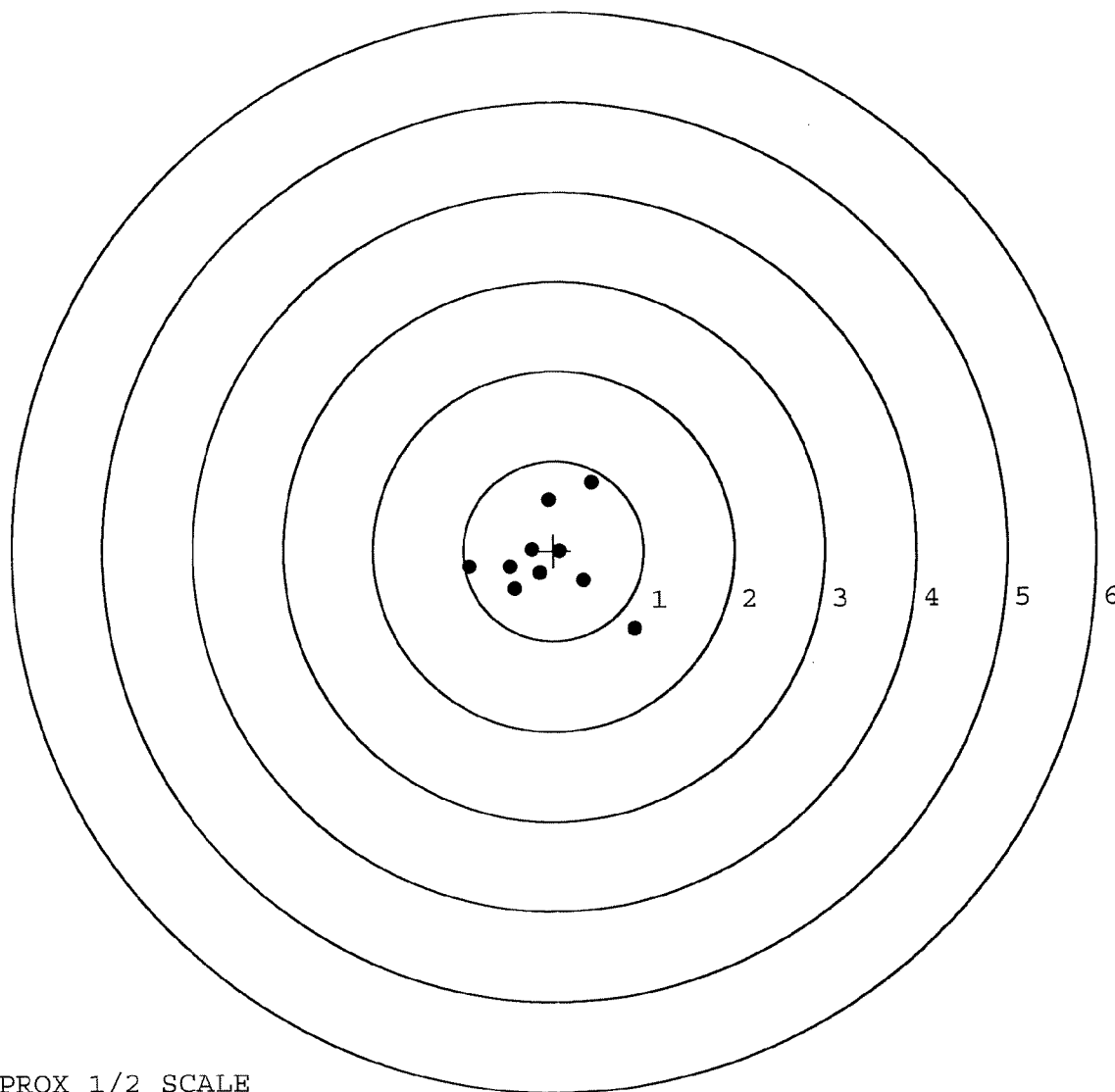


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6522189. __0
TARGET NUMBER: 5
FILE DATE: 11/18/2005
FILE TIME: 15:00

POINT#	X	Y
1:	0.888	-0.880
2:	0.327	-0.340
3:	0.422	0.755
4:	-0.054	0.573
5:	-0.937	-0.174
6:	-0.491	-0.177
7:	-0.438	-0.426
8:	-0.157	-0.249
9:	0.061	-0.013
10:	-0.241	0.019

X CENTROID: -0.062
Y CENTROID: -0.091
POA TO CENTROID: 0.110
HORZ SPREAD: 1.825
VERT SPREAD: 1.635
GROUP SPREAD: 1.957
MIN RADIUS: 0.146
MAX RADIUS: 1.235
MEAN RADIUS: 0.570
IN 1 IN DIAMETER: 5
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

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

R & E NUMBER	102775		
SERIAL NUMBER	CAMP SHELBY C6522189		
LOG-IN DATE	10-26-05		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	11-2-05	AC
560 A	RE-BARREL	11-9-05	AC
B	DRILL AND TAP	11-11-05	BR
575	ASSEMBLE	11-14-05	CD
600	PROOF MAGNA-FLUX	11-14-05	CD
605	CHECK HEADSPACE	11-14-05	CD
610	DIS-ASSEMBLE GUN	11-14-05	CD
612	MAGNAFLUX OPERATOR	11-15-05	WJ
615	ROLLMARK CALIBER	11-15-05	CW
618	ROTO-BLAST	11-16-05	WB
620	APPLY COATINGS	11-16-05	HP
625 A	FINAL ASSEMBLY	11-17-05	BG
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE	11-22-05	AC
D	SAFETY "OFF" FORCE	11-22-05	AC
E	FIRING PIN INDENT	11-22-05	AC
640	TARGET	11-18-05	TRW
655	FINAL INSPECT	11-22-05	AC
660	PACK	12-2-05	DA
		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

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

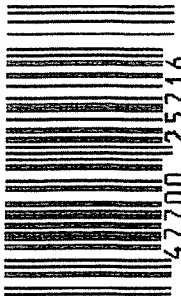
SERIAL NO.

C6522189

ORDER NO.

5716

UPC



0 47700 25716 7



5716 C6522189

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6522189
25 Aug 1990

CENTROIDAL DISTANCES

Ø TO	1	.0596154
1 TO	2	.324607
1 TO	3	.374086
1 TO	4	.341
1 TO	5	.338895

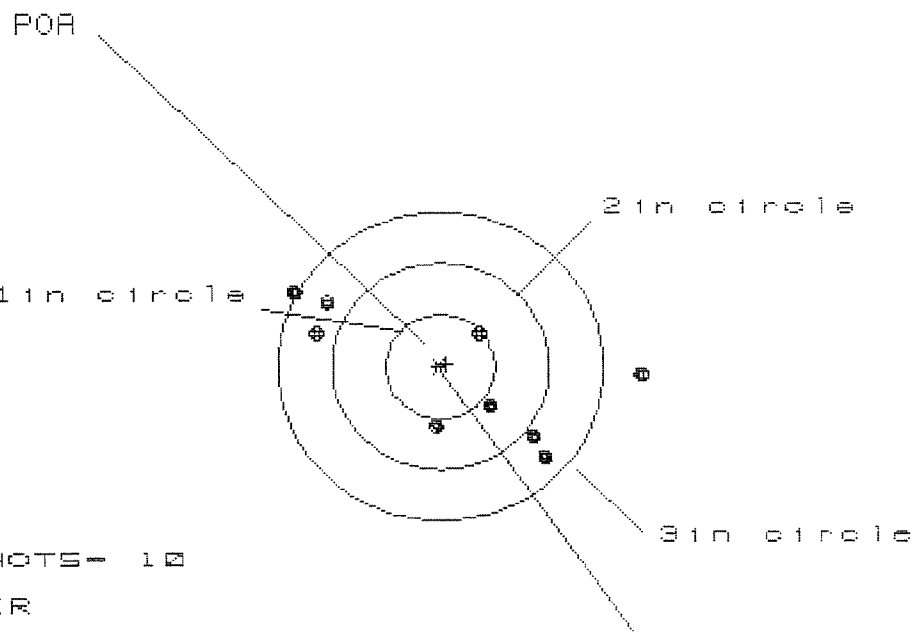
$\bar{x}$ $\bar{y}$ <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.2052
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0466
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .210425
THE AMR FOR THIS RIFLE IS: .9572

25 Aug 1990

FILE:/PATTERNING/CENTERFIRE_PATT/C6522189

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1in = 0

2in = 3

3in = 8

HS= 3.182

VS= 1.573

GS= 3.281

CENTROID #

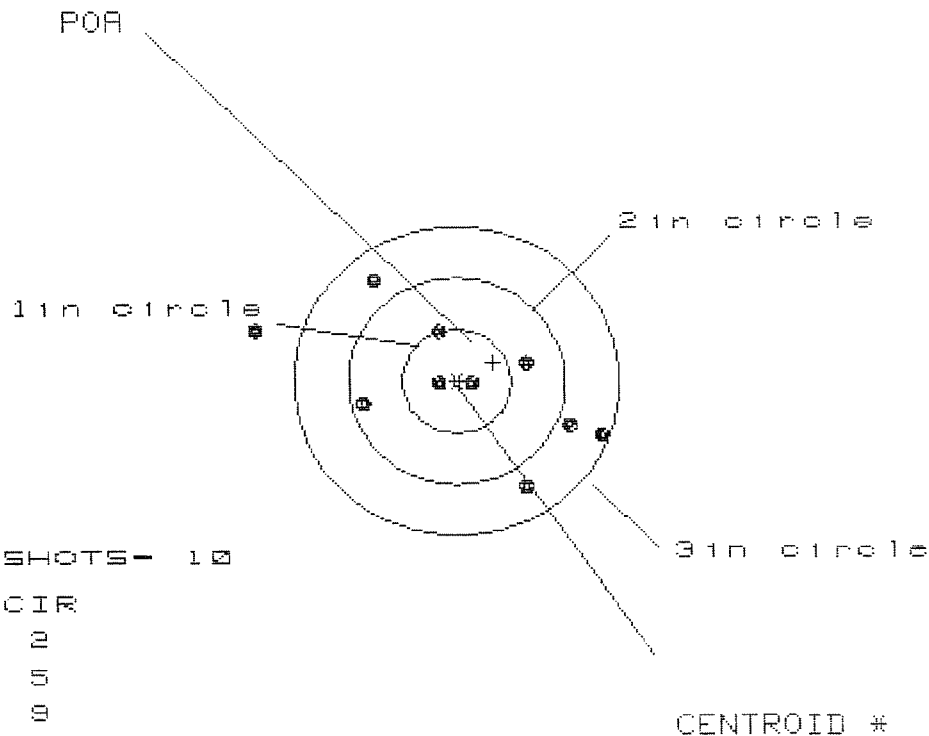
PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.851	1.208	1.068
MINIMUM X	-1.331	-1.126	-1.051
MAXIMUM Y	.694	.682	.689
MINIMUM Y	-.879	-.891	-.806
CENTROID X	-.055	-.260	-.120
CENTROID Y	-.023	-.011	-.096
POA TO CENTROID in.	.059	.261	.154
MIN RADIUS	.506	.623	.513
MEAN RADIUS	1.103	1.015	.957
MAX RADIUS	1.854	1.501	1.338
HORIZONTAL SPREAD	3.182	2.334	2.119
VERTICAL SPREAD	1.573	1.573	1.495
EXTREME SPREAD	3.281	2.815	2.510
NUMBER IN ONE INCH CIRCLE =	0		
NUMBER IN TWO INCH CIRCLE =	3		
NUMBER IN THREE INCH CIRCLE =	8		

25 Aug 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6522189

CENTERFIRE PATTERNS

2



OF SHOTS- 10

IN CIR

1in = 2

2in = 5

3in = 9

HS= 3.278

VS= 1.977

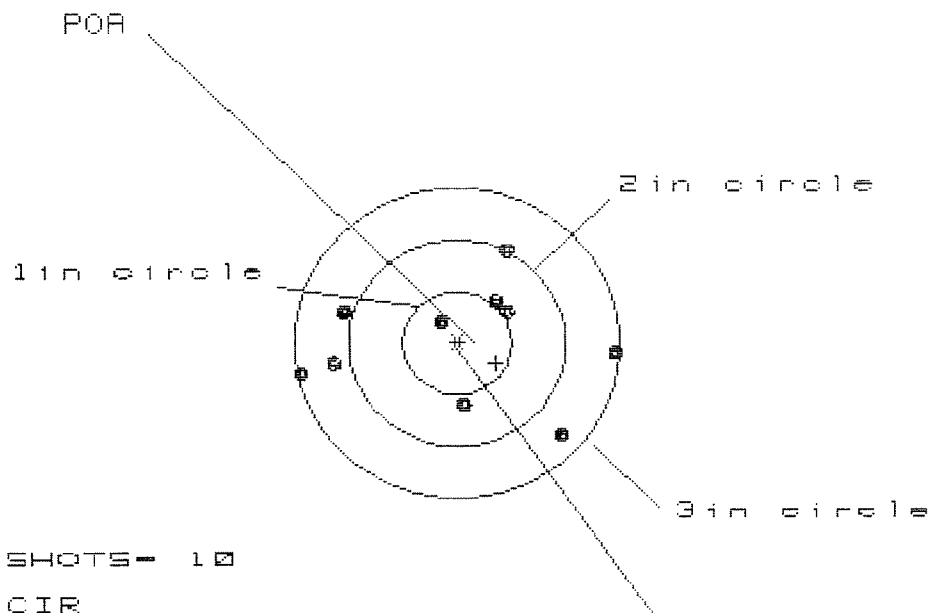
GS= 3.421

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.368	1.155	.991
MINIMUM X	:	-1.911	-1.109	-.964
MAXIMUM Y	:	.993	1.043	.984
MINIMUM Y	:	-.984	-.934	-.993
CENTROID X	:	-.338	-.125	-.270
CENTROID Y	:	-.182	-.232	-.172
POA TO CENTROID in.	:	.384	.264	.320
MIN RADIUS	:	.122	.098	.077
MEAN RADIUS	:	.942	.822	.745
MAX RADIUS	:	1.963	1.446	1.304
HORIZONTAL SPREAD	:	3.278	2.264	1.955
VERTICAL SPREAD	:	1.977	1.977	1.977
EXTREME SPREAD	:	3.421	2.639	2.438
NUMBER IN ONE INCH CIRCLE =			2	
NUMBER IN TWO INCH CIRCLE =			5	
NUMBER IN THREE INCH CIRCLE =			9	

25 Aug 1990

FILE:/PATTERNING/CENTERFIRE_PATT/C8522189

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 10

HS= 2.863

VS= 1.792

GS= 2.867

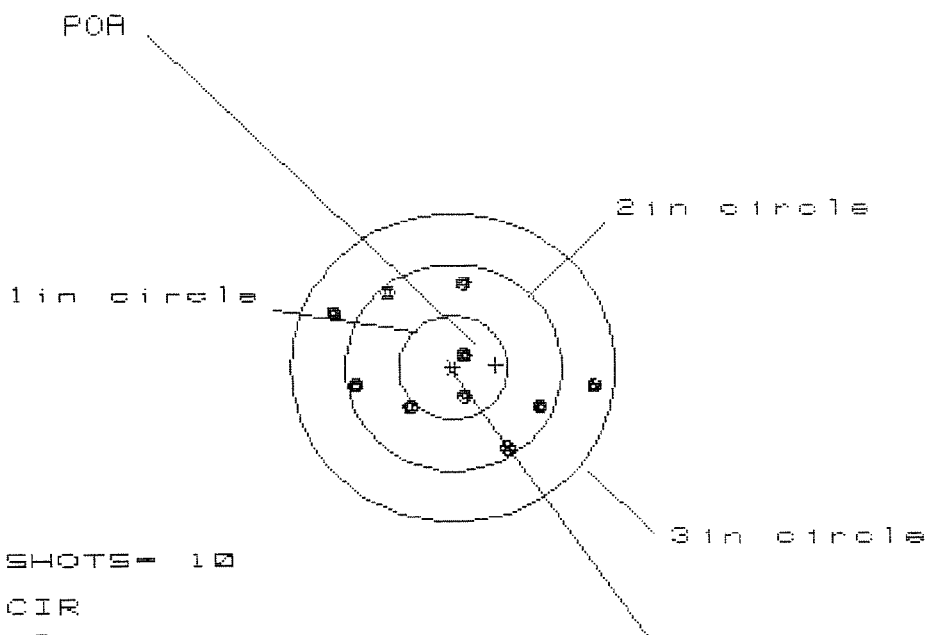
CENTROID #

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.413	1.252	.909
MINIMUM X	:	-1.450	-1.274	-1.118
MAXIMUM Y	:	.863	.834	.815
MINIMUM Y	:	-.929	-.958	-.977
CENTROID X	:	-.359	-.198	-.354
CENTROID Y	:	.195	.224	.243
POA TO CENTROID in.	:	.408	.299	.429
MIN RADIUS	:	.292	.385	.256
MEAN RADIUS	:	.938	.859	.803
MAX RADIUS	:	1.474	1.303	1.334
HORIZONTAL SPREAD	:	2.863	2.526	2.027
VERTICAL SPREAD	:	1.792	1.792	1.792
EXTREME SPREAD	:	2.867	2.529	2.314
NUMBER IN ONE INCH CIRCLE =			1	
NUMBER IN TWO INCH CIRCLE =			5	
NUMBER IN THREE INCH CIRCLE =			10	

25 Aug 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6522183

CENTERFIRE PATTERNS # 4



OF SHOTS - 10

IN CIR

1 in = 2

2 in = 8

3 in = 10

HS = 2.422

VS = 1.552

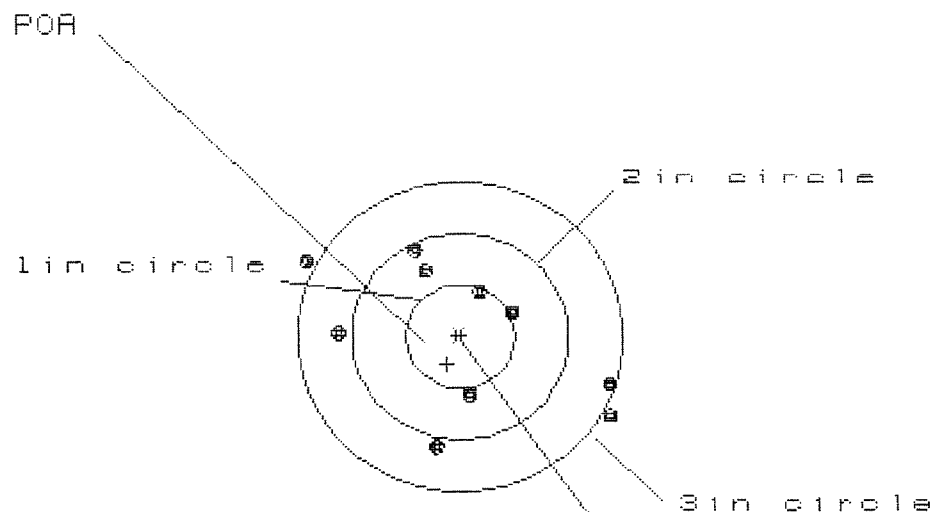
GS = 2.496

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.281	.963	.838
MINIMUM X	:	-1.141	-.998	-.896
MAXIMUM Y	:	.791	.777	.835
MINIMUM Y	:	-.761	-.775	-.717
CENTROID X	:	-.396	-.539	-.414
CENTROID Y	:	-.023	-.009	-.067
POA TO CENTROID in.	:	.397	.539	.419
MIN RADIUS	:	.168	.287	.211
MEAN RADIUS	:	.806	.756	.691
MAX RADIUS	:	1.288	1.101	.952
HORIZONTAL SPREAD	:	2.422	1.961	1.734
VERTICAL SPREAD	:	1.552	1.552	1.552
EXTREME SPREAD	:	2.496	2.131	1.844
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		10	

25 Aug 1990

FILE:/PATTERNING/CENTERFIRE_PATT/C8522189

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 8

HS= 2.846

VS= 1.879

GS= 3.202

CENTROID #

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.401	1.240	1.387
MINIMUM X	:	-1.445	-1.239	-1.092
MAXIMUM Y	:	.804	.890	.800
MINIMUM Y	:	-1.075	-.989	-1.079
CENTROID X	:	.122	.283	.136
CENTROID Y	:	.266	.180	.270
POA TO CENTROID in.	:	.292	.335	.302
MIN RADIUS	:	.467	.408	.458
MEAN RADIUS	:	.997	.920	.845
MAX RADIUS	:	1.639	1.383	1.466
HORIZONTAL SPREAD	:	2.846	2.479	2.479
VERTICAL SPREAD	:	1.879	1.879	1.879
EXTREME SPREAD	:	3.202	2.573	2.537
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		8	

SWS TRIGGER PULL TEST

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

SERIAL NO. C6522189

DATE 8/24/90

TESTER JLL

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.37	2.30	2.36	2.53	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.36	2.39	2.40	2.48	
PULL #3	2.36	2.39	2.44	2.52	
PULL #4	2.35	2.44	2.38	2.46	
PULL #5	2.36	2.48	2.40	2.41	
TOTAL	11.80	12.00	11.98	12.40	
AVG.	2.36	2.4	2.396	2.48	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.13	3.19		
PULL #2	3.27	3.25		
PULL #3	3.25	3.12		
PULL #4	3.10	3.30		
PULL #5	3.21	3.27		
TOTAL	15.96	16.13		
AVG.	3.192	3.226		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.41	4.38		4.38
PULL #2	4.36	4.43		4.39
PULL #3	4.33	4.37		4.40
PULL #4	4.36	4.43		4.39
PULL #5	4.40	4.39		4.43
TOTAL	21.86	22.00		21.99
AVG.	4.372	4.4		4.398

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C 6522189

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		8/1/90	KS
600	Proof		8/1/90	KS
607	Check Headspace		8/1/90	KS
610	Dis-assemble Gun		8/1/90	KS
612	Magnaflux Barrel Action		8/6/90	KR
	Magnaflux Bolt		8/6/90	KR
615	Rollmark Caliber		8/6/90	LS
617	Drill and Tap Sight Holes		8/10/90	FB
618	Polish Barrel <i>RB</i>		8/14/90	WB
620	Apply Coatings (Barrel Action)		8-22-90	TA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		8/23/90	KS
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		8/23/90	KS
	C) Inspect Ejector Hole for Chamfer		8/23/90	KS
	D) Oil Firing Pin Ass'y		8/23/90	KS
	E) Adjust Trigger Pull to Min Setting and Stake		8/24/90	RL

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	5	5			8/24/90	WB
	G) Safety Off Force	2 1/4	2	2			8/24/90	WB
	H) Trigger Pull Test & Retainability						8/24/90	KL
	I) Firing Pin Indent	.024	.024	.024			8/24/90	WB
	J) Assemble Stock						8/24/90	KS
	K) Assemble Swivel Studs						8/31/90	JS
	L) Attach Front and Rear Sight Assemblies						8/24/90	KS
	M) Iron Sight Alignment						8/24/90	KS
	N) Detach Front & Rear Sights & place in numbered container						8/24/90	KS
	O) Attach Scope to Rifle						8/24/90	KS
	P) Detach & Attach Scope 20 Times						8/24/90	KS
640	Gallery Target & Test						8-25-90	AC
	A) Time						8-25-90	AC
	B) Malfunctions						8-25-90	AC
	C) Pierced Primers						8-25-90	AC
	D) Optical Clarity of Scope						8-25-90	AC
645	Inspect for Live Ammo						8-25-90	AC
655	Final Inspection							
	A) Headspace						8/31/90	JS
	B) Trigger Pull	2.53	2.48	2.52	2.46	2.41	8/30/90	KL
	C) Function						8/31/90	JS
660	Pack						9/19/90	NE