

C6523408

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

Serial Number: C6523408

Model: M24 SWS



RE00102782

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6523408.___0
FILE DATE AND TIME: 12/01/2005 23:14

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.085
The Average Y Centroid of the Five Target Set:	0.123
The Average Point of Impact of the Five Target Set:	0.150
The Average Mean Radius of the Five Target Set:	0.637
The Distance from POA to Centroid Target #1:	0.402
The Distance from Centroid Target #2 to Centroid Target #1:	0.387
The Distance from Centroid Target #3 to Centroid Target #1:	0.320
The Distance from Centroid Target #4 to Centroid Target #1:	0.340
The Distance from Centroid Target #5 to Centroid Target #1:	0.237

SERIAL NUMBER: C6523408. 0

TARGET NUMBER: 1

FILE DATE: 12/01/2005

FILE TIME: 23:14

X CENTROID: -0.223

Y CENTROID: 0.334

POA TO CENTROID: 0.402

HORZ SPREAD: 1.983

VERT SPREAD: 2.639

GROUP SPREAD: 2.670

MIN RADIUS: 0.100

MAX RADIUS: 1.514

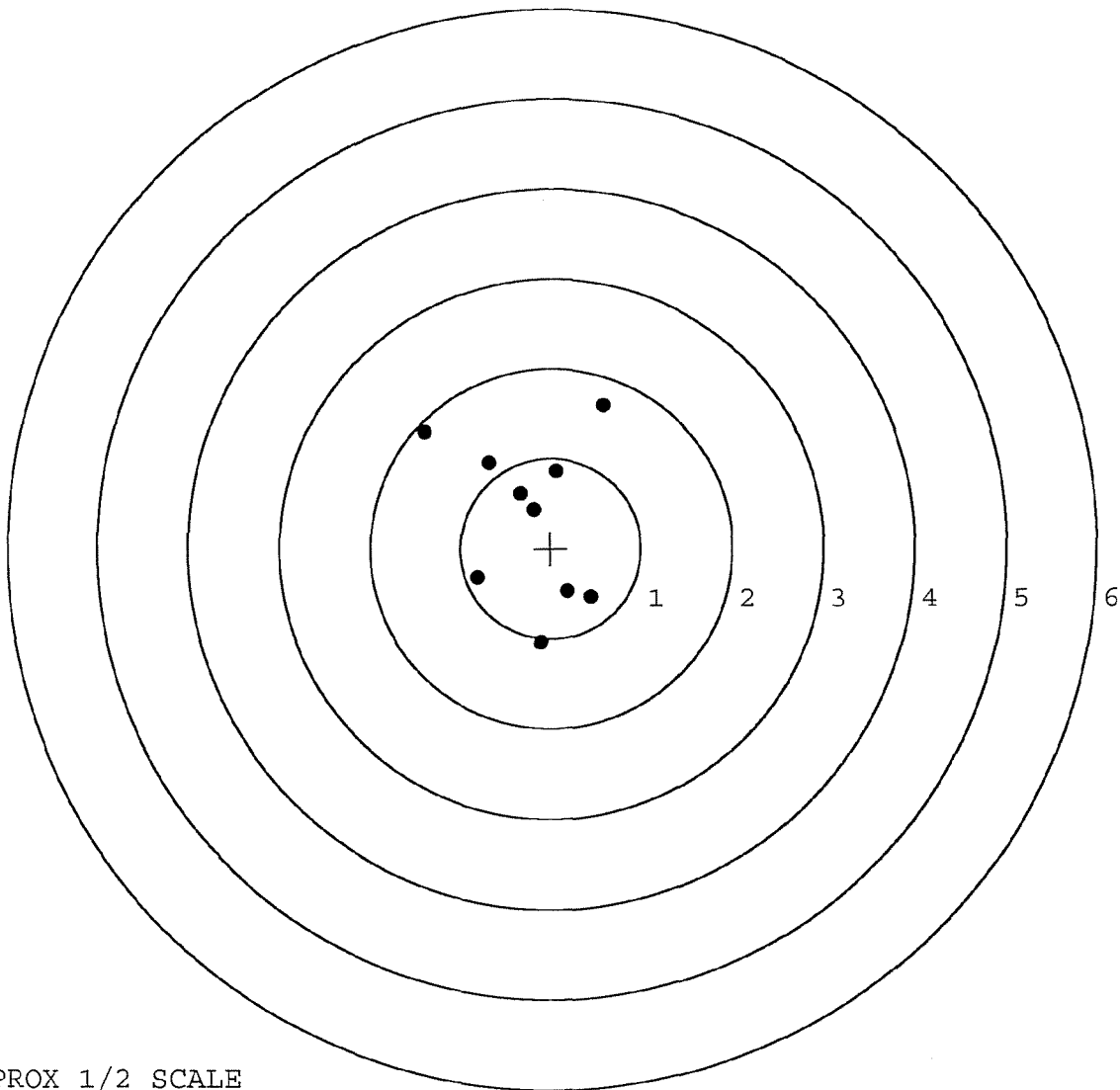
MEAN RADIUS: 0.906

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 9

POINT#	X	Y
1:	-0.190	0.428
2:	0.065	0.858
3:	-0.340	0.613
4:	-0.681	0.951
5:	-1.397	1.290
6:	0.586	1.588
7:	0.193	-0.474
8:	0.453	-0.539
9:	-0.112	-1.051
10:	-0.809	-0.323

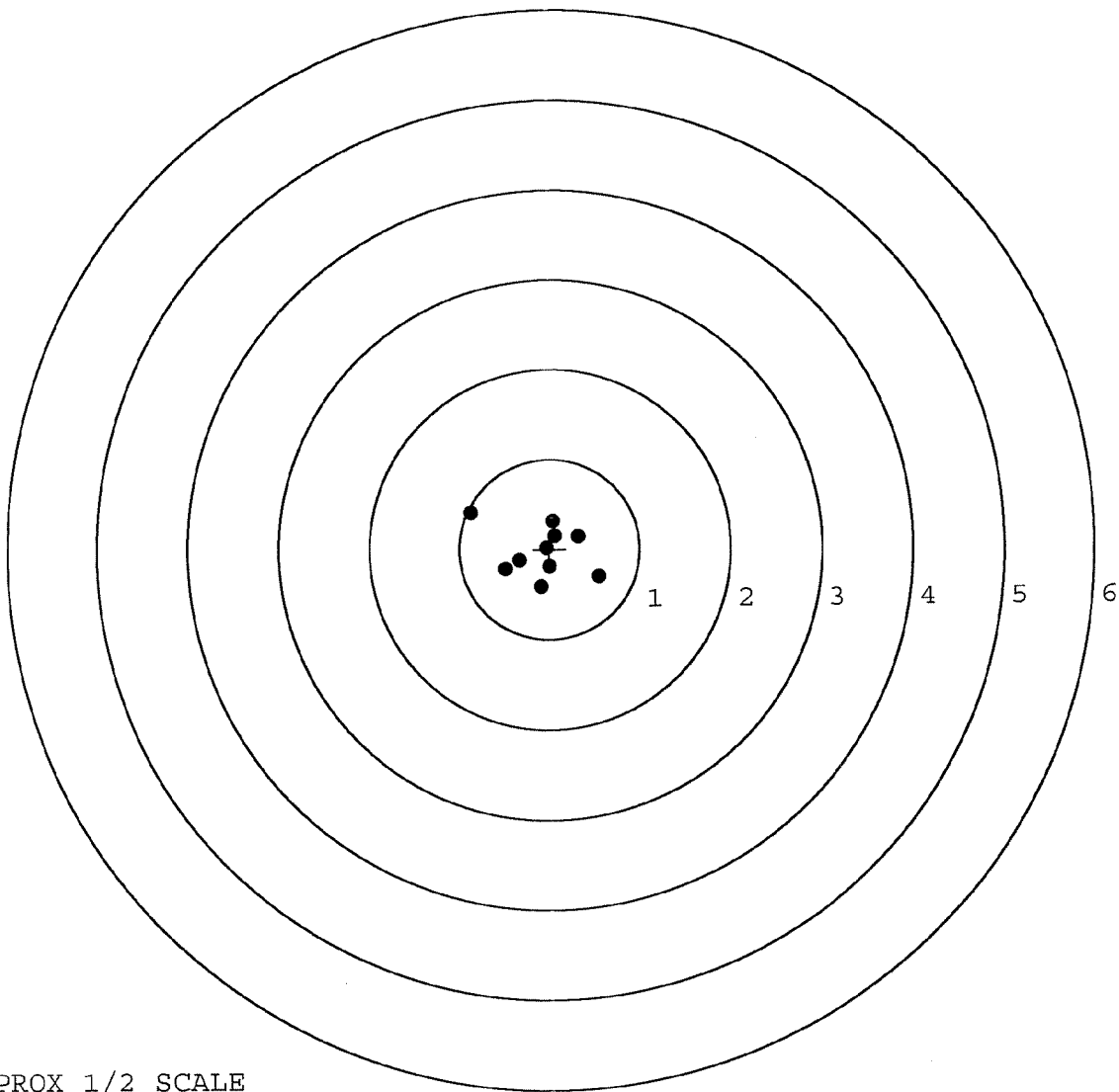


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523408. __0
 TARGET NUMBER: 2
 FILE DATE: 12/01/2005
 FILE TIME: 23:14

X CENTROID: -0.085
 Y CENTROID: -0.027
 POA TO CENTROID: 0.089
 HORZ SPREAD: 1.420
 VERT SPREAD: 0.833
 GROUP SPREAD: 1.591
 MIN RADIUS: 0.062
 MAX RADIUS: 0.899
 MEAN RADIUS: 0.398
 # IN 1 IN DIAMETER: 8
 # IN 2 IN DIAMETER: 10
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.871	0.410
2:	0.549	-0.308
3:	0.321	0.139
4:	0.046	0.307
5:	-0.100	-0.423
6:	-0.488	-0.223
7:	-0.336	-0.129
8:	-0.004	-0.195
9:	-0.035	0.009
10:	0.065	0.143

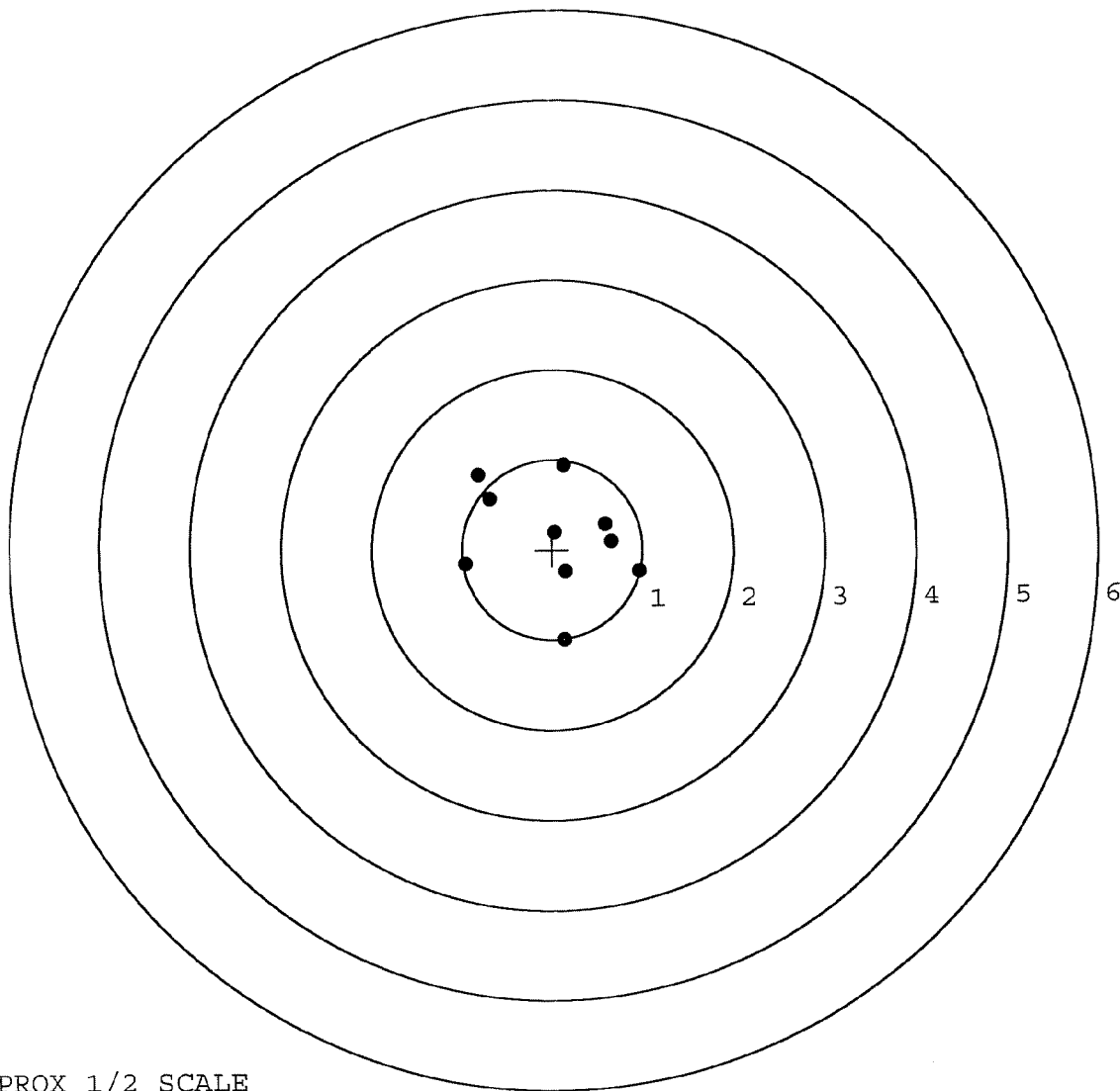


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523408. __0
 TARGET NUMBER: 3
 FILE DATE: 12/01/2005
 FILE TIME: 23:14

POINT#	X	Y
1:	-0.692	0.573
2:	-0.814	0.839
3:	-0.961	-0.154
4:	0.137	0.939
5:	0.593	0.282
6:	0.654	0.093
7:	0.965	-0.252
8:	0.135	-1.011
9:	0.148	-0.248
10:	0.030	0.194

X CENTROID: 0.019
 Y CENTROID: 0.125
 POA TO CENTROID: 0.127
 HORZ SPREAD: 1.926
 VERT SPREAD: 1.950
 GROUP SPREAD: 2.079
 MIN RADIUS: 0.069
 MAX RADIUS: 1.142
 MEAN RADIUS: 0.763
 # IN 1 IN DIAMETER: 2
 # IN 2 IN DIAMETER: 6
 # in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523408. __0

TARGET NUMBER: 4

FILE DATE: 12/01/2005

FILE TIME: 23:14

X CENTROID: -0.051

Y CENTROID: 0.041

POA TO CENTROID: 0.066

HORZ SPREAD: 1.001

VERT SPREAD: 1.739

GROUP SPREAD: 1.739

MIN RADIUS: 0.215

MAX RADIUS: 1.083

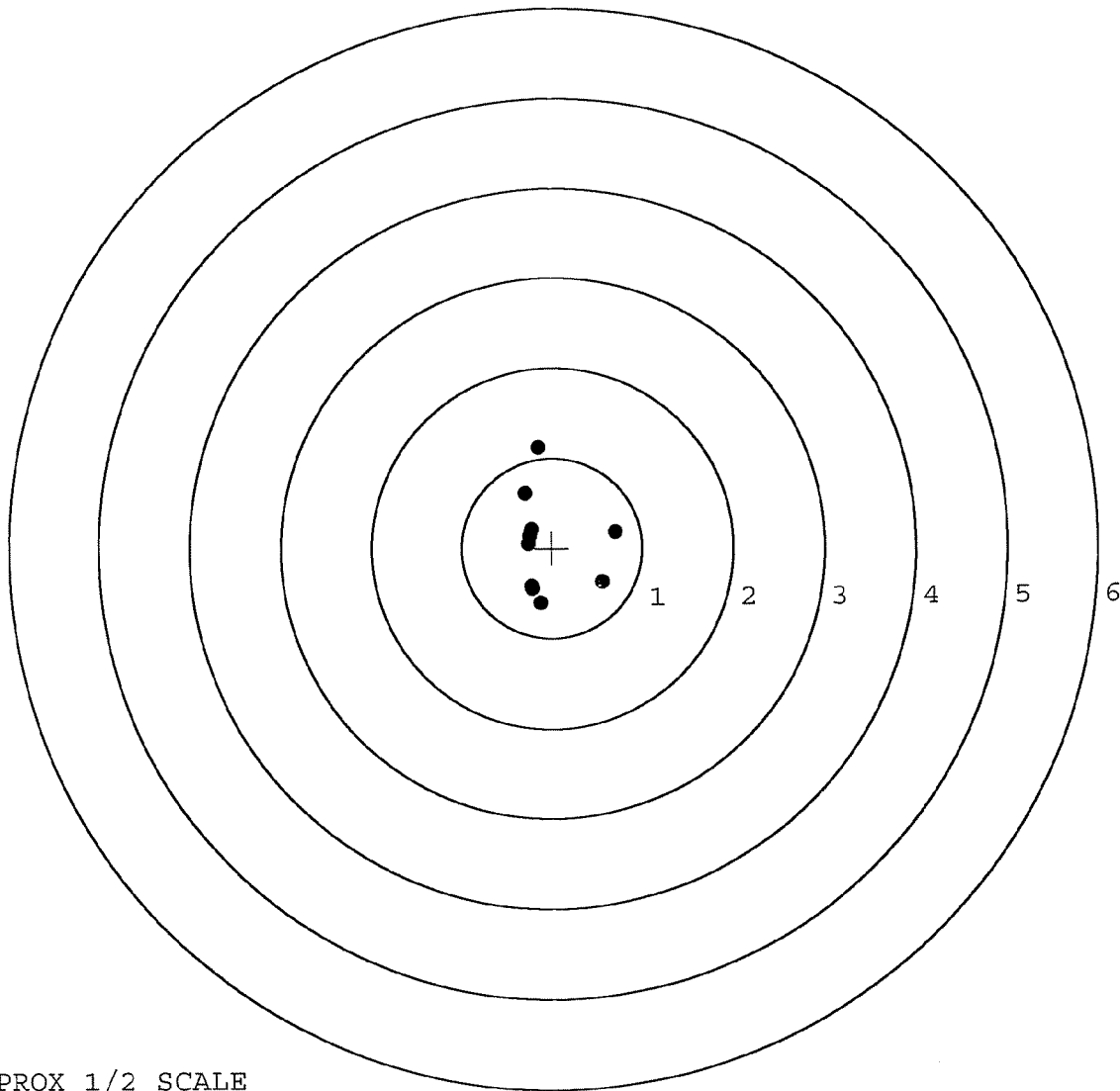
MEAN RADIUS: 0.558

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.232	-0.430
2:	-0.128	-0.619
3:	0.556	-0.381
4:	0.703	0.174
5:	-0.266	0.052
6:	-0.227	0.209
7:	-0.298	0.609
8:	-0.149	1.120
9:	-0.251	0.136
10:	-0.222	-0.459

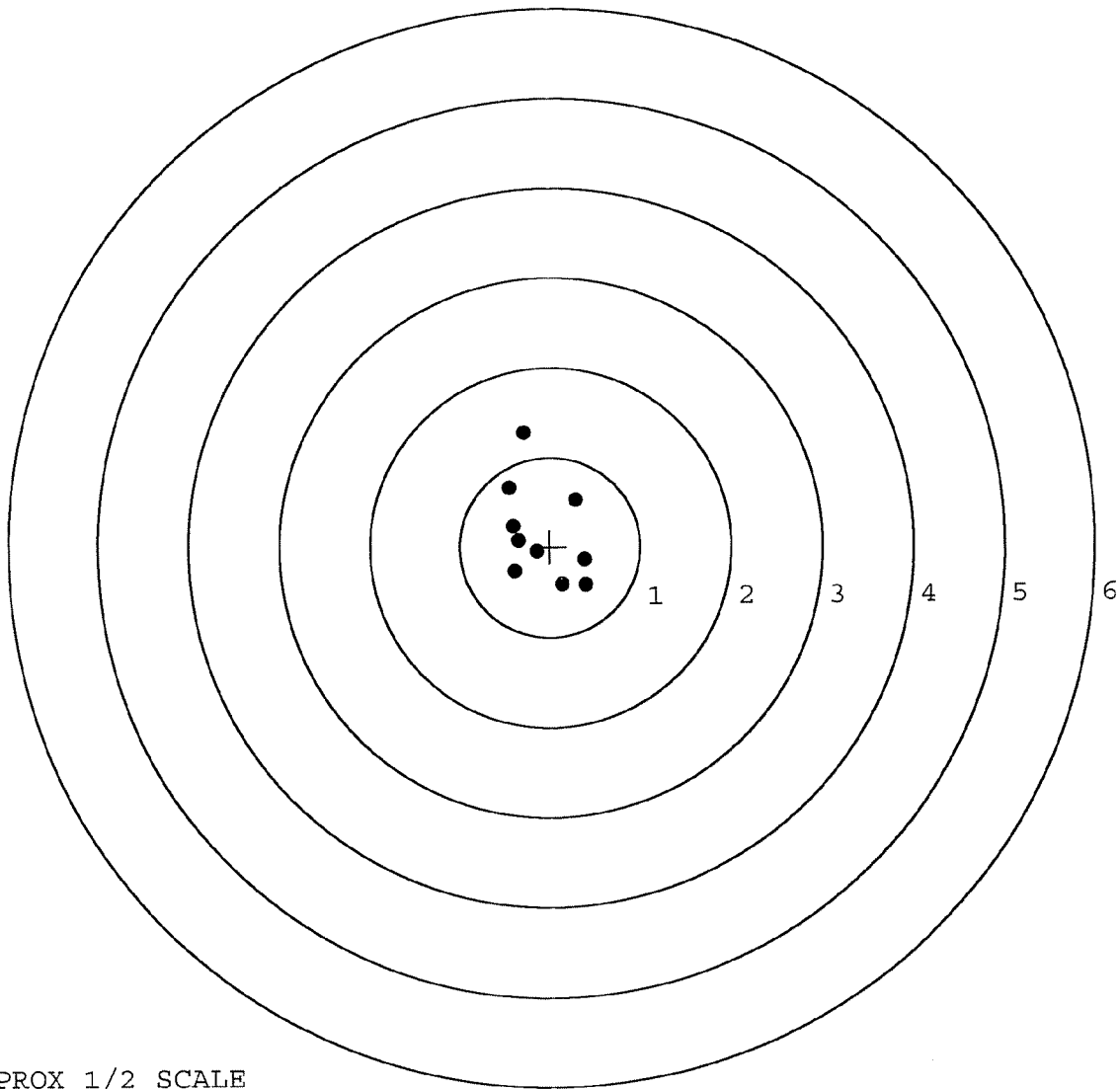


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523408. 0
 TARGET NUMBER: 5
 FILE DATE: 12/01/2005
 FILE TIME: 23:14

X CENTROID: -0.084
 Y CENTROID: 0.143
 POA TO CENTROID: 0.166
 HORZ SPREAD: 0.851
 VERT SPREAD: 1.703
 GROUP SPREAD: 1.836
 MIN RADIUS: 0.207
 MAX RADIUS: 1.151
 MEAN RADIUS: 0.557
 # IN 1 IN DIAMETER: 3
 # IN 2 IN DIAMETER: 9
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.381	-0.151
2:	0.398	-0.428
3:	0.140	-0.421
4:	-0.395	-0.275
5:	-0.149	-0.054
6:	-0.411	0.228
7:	-0.453	0.663
8:	-0.289	1.275
9:	0.293	0.523
10:	-0.352	0.069



TARGET APPROX 1/2 SCALE

BARBER - M24 0027564

 AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50 LBS (plus or minus 0.50 LBS)

3.00 LBS (plus or minus 0.75 LBS)

4.00 LBS (plus or minus 1.00 LBS)

SERIAL NO.

DATE 11-4-05

TESTER R.P.

	2.50 LBS INITIAL	2.50 LBS AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50 LBS	COMMENTS
PULL #1	2.56	2.67	2.52	
PULL #2	2.57	2.42	2.42	
PULL #3	2.65	2.58	2.68	
PULL #4	2.54	2.57	2.48	
PULL #5	2.61	2.64	2.65	
TOTAL	12.93	12.88	12.75	
AVERAGE	2.58	2.57	2.55	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES	COMMENTS
PULL #1	3.21	3.19	
PULL #2	3.19	3.25	
PULL #3	3.20	3.19	
PULL #4	3.19	3.16	
PULL #5	3.21	3.25	
TOTAL	16.00	16.04	
AVERAGE	3.20	3.20	

	4.00 LBS INITIAL	4.00 LBS AFTER 20 CYCLES	MAX SETTING GREATER THAN 4 LBS	RESET TO 4 LBS FOR TARGET & ACCURACY
PULL #1	4.04	3.81		4.03
PULL #2	4.14	4.34		3.92
PULL #3	4.24	4.20		4.00
PULL #4	4.17	4.33		4.05
PULL #5	4.24	4.26		4.02
TOTAL	20.83	20.94		20.02
AVERAGE	4.16	4.18		4.00

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-C-0149

R & E NUMBER	102782	Camp Shelby		
SERIAL NUMBER	06523408			
LOG-IN DATE	10-26-05			
OPERATION #	OPERATION NAME		DATE	INITIAL
500	DIS-ASSEMBLE GUN		11-4-05	AC
505	RE-BARREL		11-8-05	AC
560	ASSEMBLE		11-15-05	CI
600	PROOF	MAGNA-FLUX INSPECTED	11-15-05	CI
605	CHECK HEADSPACE	NOV 18 2005	11-15-05	CI
610	DIS-ASSEMBLE GUN		11-15-05	CI
612	MAGNAFLUX	OPERATOR <u>lined</u>	11/18/05	<u>lined</u>
510	DRILL AND TAP		11-17-05	BR
615	ROLLMARK CALIBER		11-18-05	CW
618	ROTO-BLAST		11-21-05	CB
620	APPLY COATINGS		11/22/05	RB
625	FINAL ASSEMBLY		12-29-05	RT
640	FUNCTION TEST AND	PASS FAIL	12/1/05	MJD
650	TARGET	PASS FAIL	12-2-05	AC
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
670	FINAL INSPECTION		12-2-05	AC
	A) HEADSPACE	PASS FAIL	12-2-05	AC
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	2.10 2.25 2.50 2.75 2.65	AC
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS	6 lbs 6 lbs 6 lbs	AC
	G) SAFETY OFF FORCE	2 LBS MIN	3 lbs 3 lbs 3 lbs	AC
	I) FIRING PIN INDENT	.020	.023 .023 .023	AC
690	PACK		12-3-05	RT

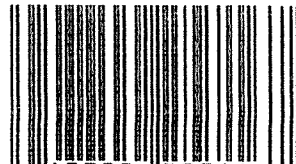
 		VERY IMPORTANT: Instruction Book enclosed to assure safe use of this firearm.
MODEL 700™ M24		SERIAL NO. C6523408
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat & Tm. Off, Marca Registrada Marque Deposee.		ORDER NO. 5716

01



5716 C6523408

UPC



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op. #	OP. NAME	READINGS					DATE	INIT
625 at.	F) Safety On Force	4 1/2	4 1/2	4 1/2			9/13/90	WB
	G) Safety Off Force	3	3	3			9/13/90	WB
	H) Trigger Pull Test & Retainability						9/13/90	WB
	I) Firing Pin Indent	.022	.0225	.022			9/13/90	WB
	J) Assemble Stock						9/13/90	RW
	K) Assemble Swivel Studs						9/15/90	JS
	L) Attach Front and Rear Sight Assemblies						9/13/90	RW
	M) Iron Sight Alignment						9/13/90	RW
	N) Detach Front & Rear Sights & place in numbered container						9/13/90	RW
	O) Attach Scope to Rifle						9/13/90	RW
	P) Detach & Attach Scope 20 Times						9/13/90	RW
640	Gallery Target & Test						9-14-90	DH
	A) Time						9-14-90	DH
	B) Malfunctions						9-14-90	DH
	C) Pierced Primers						9-14-90	DH
	D) Optical Clarity of Scope						9-14-90	DH
645	Inspect for Live Ammo						9-14-90	DH
655	Final Inspection						9/15/90	JS
	A) Headspace						9-15-90	JS
	B) Trigger Pull	2.54	2.48	2.45	2.46	2.55	9-15-90	JS
	C) Function						9/15/90	JS
660	Pack						9/19/90	VF

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C 6523408

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		8-21-90	DB
600	Proof		8-21-90	DB
607	Check Headspace		8-21-90	DB
610	Dis-assemble Gun		8-21-90	DB
612	Magnaflux Barrel Action		8/22/90	KCR
	Magnaflux Bolt		8/22/90	KCR
615	Rollmark Caliber		8/22/90	GS
617	Drill and Tap Sight Holes		8/23/90	FB
618	Polish Barrel RB		8/23/90	WB
620	Apply Coatings (Barrel Action)		8-23-90	TS
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		8/31/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		8/31/90	RW
	C) Inspect Ejector Hole for Chamfer		8/31/90	RW
	D) Oil Firing Pin Ass'y		8/31/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		9/13/90	WB

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6523408

DATE 9/13/90

TESTER WB

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.51	2.52	2.46	2.54	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.48	2.43	2.49	2.48	
PULL #3	2.47	2.41	2.30	2.45	
PULL #4	2.45	2.42	2.46	2.46	
PULL #5	2.46	2.50	2.40	2.55	
TOTAL	12.37	12.28	12.11	12.48	
AVG.	2.47	2.46	2.42	2.496	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.12	3.06		
PULL #2	3.07	3.07		
PULL #3	3.08	3.11		
PULL #4	3.05	3.13		
PULL #5	3.07	3.16		
TOTAL	15.39	15.53		
AVG.	3.08	3.11		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.06	4.06		3.75
PULL #2	4.01	4.10		3.60
PULL #3	4.09	4.08		3.70
PULL #4	4.10	4.11		3.65
PULL #5	4.10	4.12		3.78
TOTAL	20.36	20.47		18.48
AVG.	4.07	4.09		3.70

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6523408
14 Sep 1990

CENTROIDAL DISTANCES

0 TO	1	.149656
1 TO	2	.381083
1 TO	3	.277838
1 TO	4	.0732462
1 TO	5	.848756

#2 3 <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .3556
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.1536
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .387356
THE AMR FOR THIS RIFLE IS: 1.03

14 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8523408

CENTERFIRE PATTERNS

1

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS - 10

IN CIR

1in = 0

2in = 2

3in = 9

HS= 2.318

VS= 2.766

GS= 2.963

PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.220	1.098	1.050
MINIMUM X	:	-1.098	-1.157	-1.205
MAXIMUM Y	:	1.394	1.435	1.284
MINIMUM Y	:	-1.372	-1.217	-1.368
CENTROID X	:	.149	.271	.319
CENTROID Y	:	-.014	-.169	-.018
POA TO CENTROID in.	:	.150	.320	.319
MIN RADIUS	:	.520	.679	.688
MEAN RADIUS	:	1.200	1.123	1.090
MAX RADIUS	:	1.775	1.520	1.397
HORIZONTAL SPREAD	:	2.318	2.255	2.255
VERTICAL SPREAD	:	2.766	2.652	2.652
EXTREME SPREAD	:	2.963	2.674	2.674
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		2	
NUMBER IN THREE INCH CIRCLE	=		9	

14 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523408

CENTERFIRE PATTERNS

2

POR

1in circle

2in circle

3in circle

CENTROID #

OF SHOTS = 10

IN CIR

1in = 1

2in = 6

3in = 10

HS= 2.204

VS= 2.049

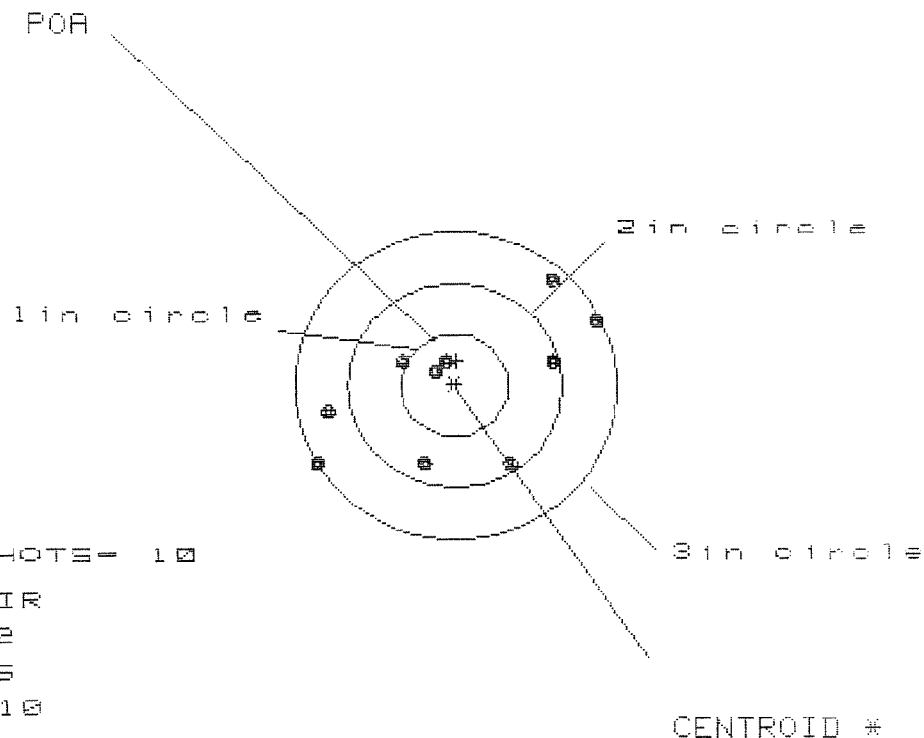
GS= 2.368

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.005	.871	.846
MINIMUM X	:	-1.200	-.879	-.904
MAXIMUM Y	:	.887	.836	.684
MINIMUM Y	:	-1.162	-1.213	-.722
CENTROID X	:	.467	.600	.625
CENTROID Y	:	-.224	-.173	-.021
POR TO CENTROID in.	:	.517	.624	.626
MIN RADIUS	:	.196	.339	.367
MEAN RADIUS	:	.857	.804	.739
MAX RADIUS	:	1.284	1.231	1.134
HORIZONTAL SPREAD	:	2.204	1.750	1.750
VERTICAL SPREAD	:	2.049	2.049	1.406
EXTREME SPREAD	:	2.368	2.157	2.078
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		10	

14 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523488

CENTERFIRE PATTERNS # 3



OF SHOTS - 10

IN CIR

1 in = 2

2 in = 5

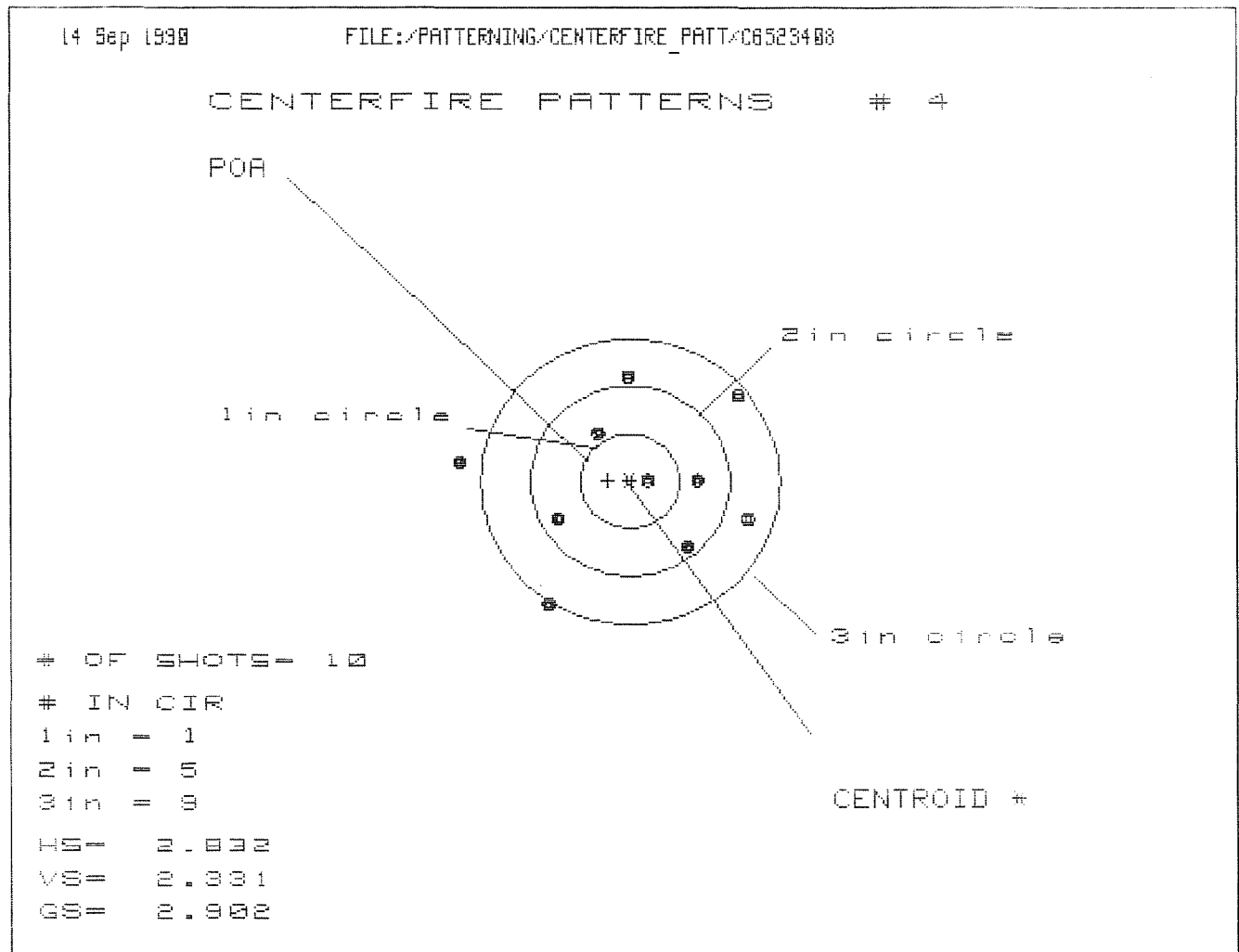
3 in = 10

HS = 2.586

VS = 1.840

GS = 2.924

PATTERN #	3	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.317	1.176	.893
MINIMUM X	-1.269	-1.375	-1.228
MAXIMUM Y	1.045	.962	1.029
MINIMUM Y	-.795	-.878	-.811
CENTROID X	-.014	.127	-.020
CENTROID Y	-.239	-.156	-.223
POA TO CENTROID in.	.240	.202	.224
MIN RADIUS	.230	.266	.218
MEAN RADIUS	.924	.869	.786
MAX RADIUS	1.472	1.406	1.358
HORIZONTAL SPREAD	2.586	2.551	2.121
VERTICAL SPREAD	1.840	1.840	1.840
EXTREME SPREAD	2.924	2.683	2.459
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	6		
NUMBER IN THREE INCH CIRCLE =	10		



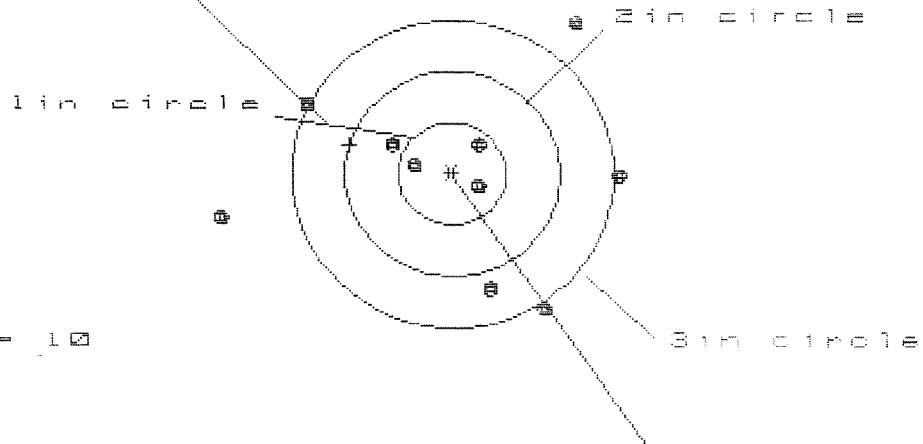
PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.139	.951	.827
MINIMUM X	:	-1.693	-.997	-.991
MAXIMUM Y	:	1.079	1.101	.947
MINIMUM Y	:	-1.252	-1.230	-.841
CENTROID X	:	.222	.410	.534
CENTROID Y	:	-.008	-.030	.124
POA TO CENTROID in.	:	.222	.411	.548
MIN RADIUS	:	.140	.052	.218
MEAN RADIUS	:	1.001	.893	.805
MAX RADIUS	:	1.704	1.583	1.103
HORIZONTAL SPREAD	:	2.832	1.948	1.818
VERTICAL SPREAD	:	2.331	2.331	1.788
EXTREME SPREAD	:	2.982	2.869	2.164
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		9	

14 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523400

CENTERFIRE PATTERNS # 5

POR



OF SHOTS = 10

IN CIR

1 in = 3

2 in = 4

3 in = 0

HS = 2.7000

VS = 2.8666

GS = 3.841

CENTROID #

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.542	1.302	1.413
MINIMUM X	:	-2.167	-1.556	-1.445
MAXIMUM Y	:	1.530	1.481	.855
MINIMUM Y	:	-1.336	-1.385	-1.200
CENTROID X	:	.954	1.194	1.083
CENTROID Y	:	-.283	-.234	-.419
POR TO CENTROID in.	:	.995	1.217	1.161
MIN RADIUS	:	.264	.117	.143
MEAN RADIUS	:	1.168	1.035	.944
MAX RADIUS	:	2.211	1.727	1.679
HORIZONTAL SPREAD	:	3.709	2.858	2.858
VERTICAL SPREAD	:	2.866	2.866	2.055
EXTREME SPREAD	:	3.841	3.002	3.002
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		6	