

C6349221

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: C6349221.__0

FILE DATE AND TIME: 11/04/2004 08:49

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.009
The Average Y Centroid of the Five Target Set:	0.044
The Average Point of Impact of the Five Target Set:	0.045
The Average Mean Radius of the Five Target Set:	0.808
The Distance from POA to Centroid Target #1:	0.328
The Distance from Centroid Target #2 to Centroid Target #1:	0.408
The Distance from Centroid Target #3 to Centroid Target #1:	0.315
The Distance from Centroid Target #4 to Centroid Target #1:	0.341
The Distance from Centroid Target #5 to Centroid Target #1:	0.368

SERIAL NUMBER: C6349221. __0

TARGET NUMBER: 1

FILE DATE: 11/04/2004

FILE TIME: 08:49

POINT#	X	Y
1:	0.877	-0.514
2:	0.734	-0.787
3:	0.464	-0.342
4:	0.191	0.216
5:	-0.049	0.470
6:	-0.801	0.277
7:	-1.202	-0.135
8:	0.769	1.206
9:	-0.093	1.743
10:	-0.220	1.075

X CENTROID: 0.067

Y CENTROID: 0.321

POA TO CENTROID: 0.328

HORZ SPREAD: 2.079

VERT SPREAD: 2.530

GROUP SPREAD: 2.662

MIN RADIUS: 0.162

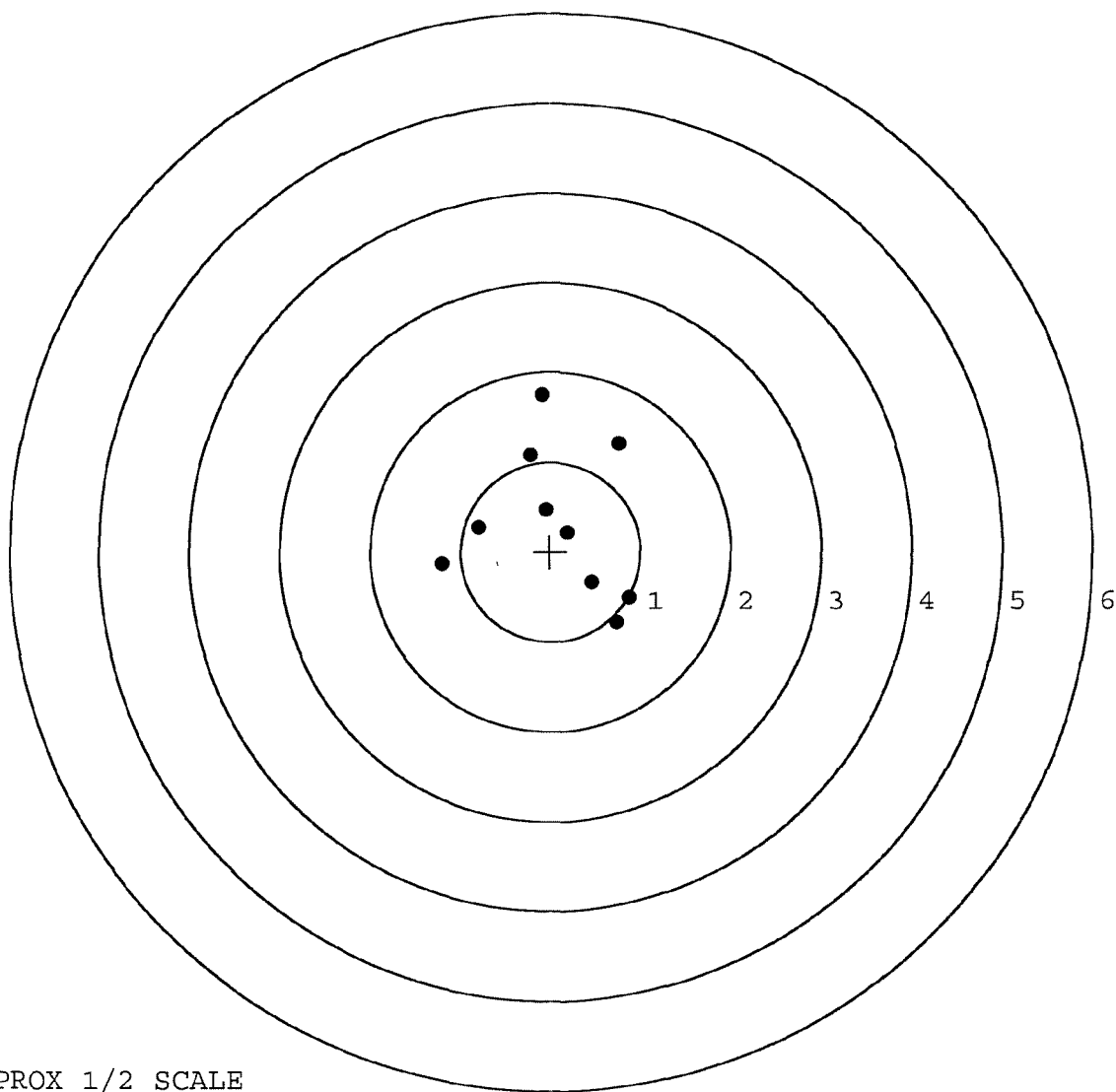
MAX RADIUS: 1.431

MEAN RADIUS: 0.917

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 5

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349221. __0

TARGET NUMBER: 2

FILE DATE: 11/04/2004

FILE TIME: 08:49

X CENTROID: 0.067

Y CENTROID: -0.087

POA TO CENTROID: 0.110

HORZ SPREAD: 1.470

VERT SPREAD: 1.603

GROUP SPREAD: 1.684

MIN RADIUS: 0.199

MAX RADIUS: 0.985

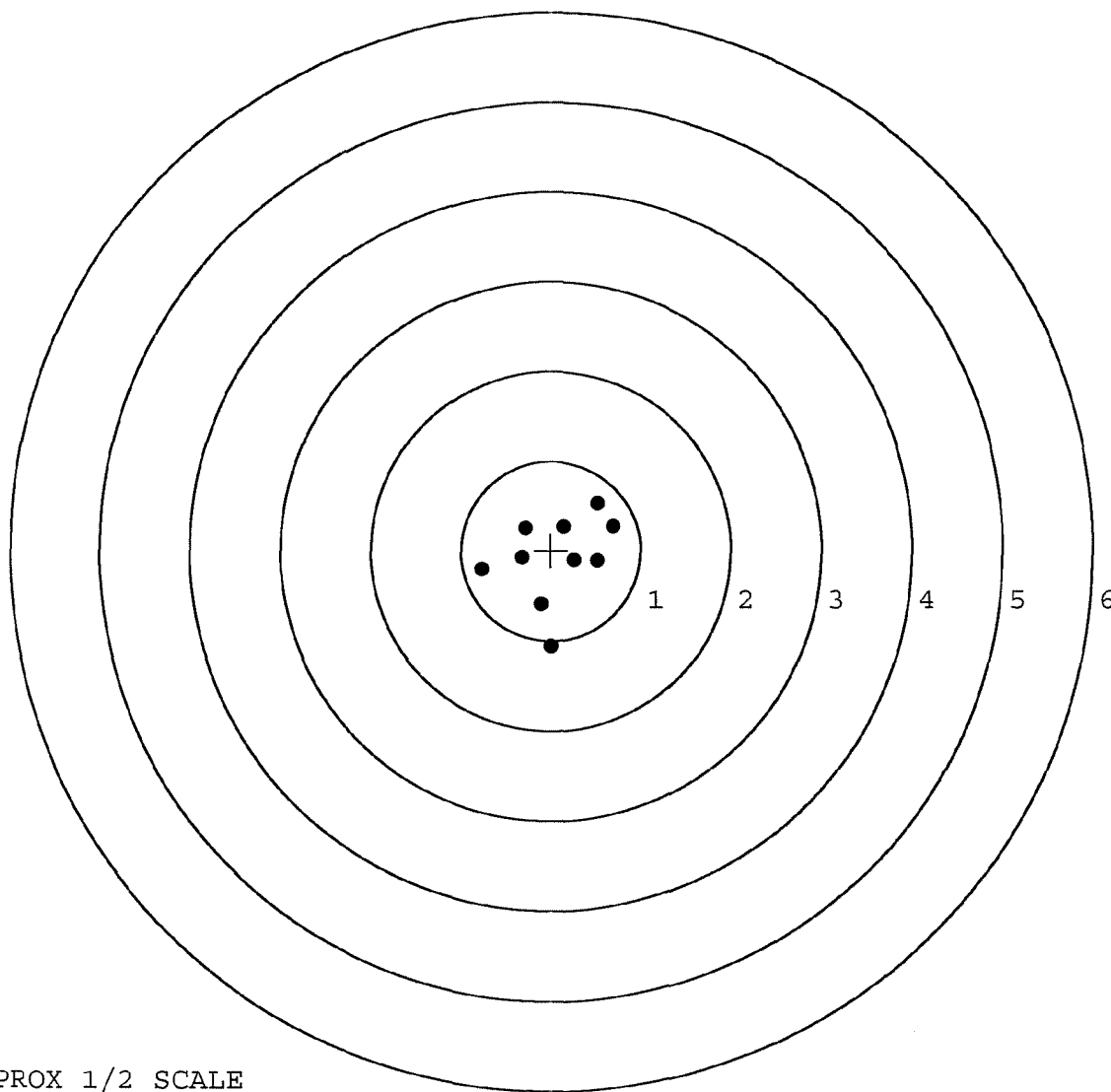
MEAN RADIUS: 0.577

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10

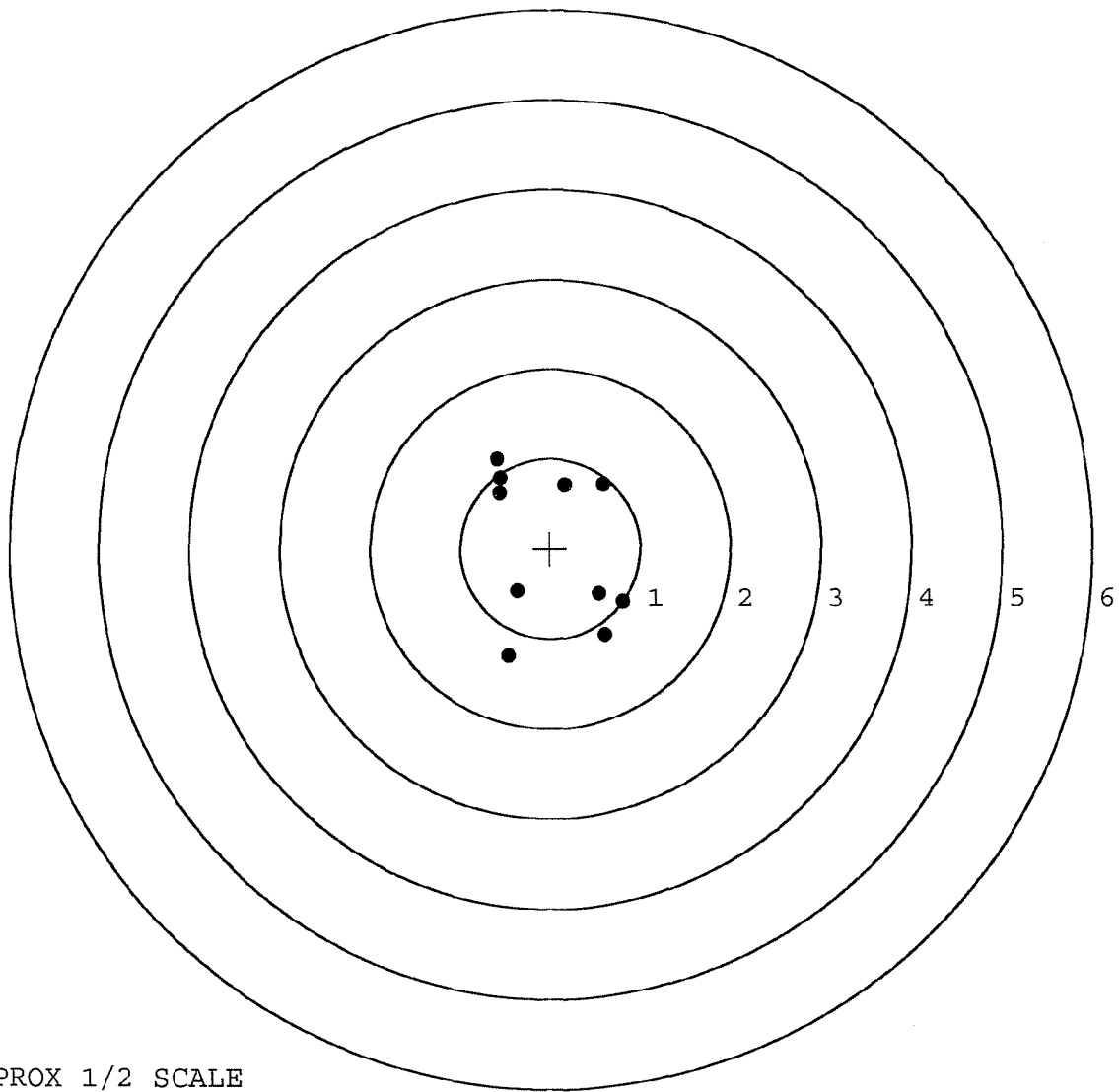
POINT#	X	Y
1:	0.004	-1.070
2:	-0.112	-0.605
3:	-0.772	-0.213
4:	0.521	0.533
5:	0.698	0.269
6:	0.143	0.270
7:	-0.281	0.249
8:	-0.319	-0.085
9:	0.265	-0.107
10:	0.523	-0.115



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349221. __0
TARGET NUMBER: 3
FILE DATE: 11/04/2004
FILE TIME: 08:49

	POINT#	X	Y
	1:	0.809	-0.596
	2:	0.607	-0.961
	3:	0.540	-0.503
	4:	-0.370	-0.475
	5:	-0.466	-1.195
	6:	0.597	0.716
	7:	0.163	0.708
	8:	-0.592	0.999
	9:	-0.558	0.781
	10:	-0.566	0.625
X CENTROID:		0.016	
Y CENTROID:		0.010	
POA TO CENTROID:		0.019	
HORZ SPREAD:		1.401	
VERT SPREAD:		2.194	
GROUP SPREAD:		2.198	
MIN RADIUS:		0.620	
MAX RADIUS:		1.298	
MEAN RADIUS:		0.938	
# IN 1 IN DIAMETER:		0	
# IN 2 IN DIAMETER:		7	
# in 3 IN DIAMETER:		10	

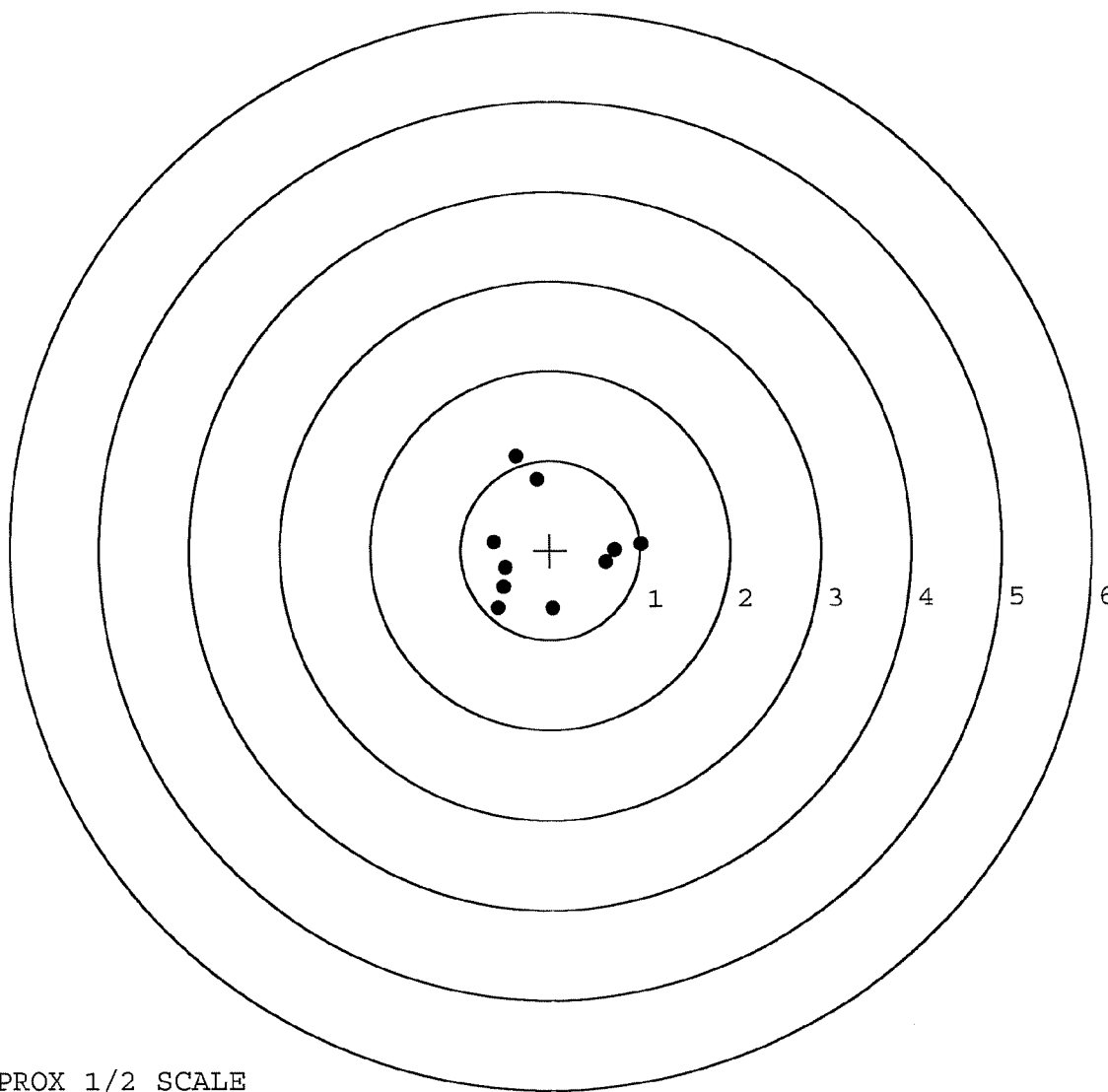


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349221. __0
TARGET NUMBER: 4
FILE DATE: 11/04/2004
FILE TIME: 08:49

X CENTROID: -0.036
Y CENTROID: -0.004
POA TO CENTROID: 0.036
HORZ SPREAD: 1.641
VERT SPREAD: 1.702
GROUP SPREAD: 1.750
MIN RADIUS: 0.505
MAX RADIUS: 1.107
MEAN RADIUS: 0.763
IN 1 IN DIAMETER: 0
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	1.011	0.063
2:	0.725	-0.001
3:	0.625	-0.136
4:	0.033	-0.652
5:	-0.144	0.793
6:	-0.375	1.050
7:	-0.630	0.098
8:	-0.581	-0.645
9:	-0.525	-0.407
10:	-0.502	-0.199

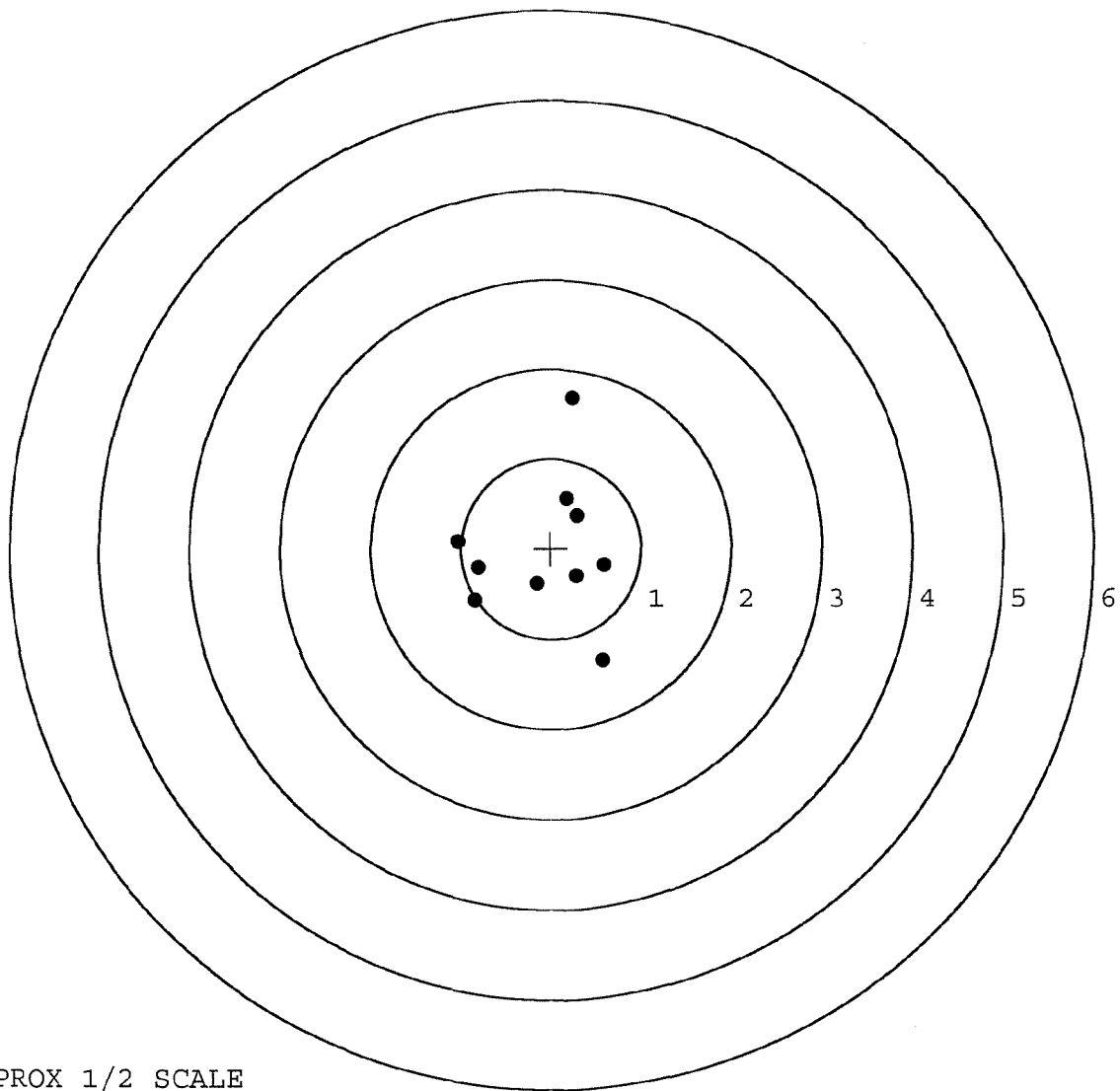


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349221. __0
TARGET NUMBER: 5
FILE DATE: 11/04/2004
FILE TIME: 08:49

X CENTROID: -0.068
Y CENTROID: -0.021
POA TO CENTROID: 0.071
HORZ SPREAD: 1.634
VERT SPREAD: 2.914
GROUP SPREAD: 2.934
MIN RADIUS: 0.377
MAX RADIUS: 1.729
MEAN RADIUS: 0.848
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 9

POINT#	X	Y
1:	0.586	-1.235
2:	0.594	-0.182
3:	0.286	-0.306
4:	-0.159	-0.387
5:	-0.853	-0.571
6:	-0.811	-0.211
7:	-1.040	0.082
8:	0.291	0.367
9:	0.177	0.556
10:	0.246	1.679



TARGET APPROX 1/2 SCALE

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 10-25-04

TESTER TRW

	2.50 LBS INITIAL	2.50 LBS AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50 LBS		COMMENTS
PULL #1	2.36	2.05		2.08	
PULL #2	2.50	2.14		2.10	
PULL #3	2.38	2.10		2.07	
PULL #4	2.22	2.03		2.12	
PULL #5	2.16	2.02		2.12	
TOTAL	11.52	10.34		10.49	
AVERAGE	2.30	2.06		2.09	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES		COMMENTS
PULL #1	3.04	3.02		
PULL #2	3.13	2.99		
PULL #3	3.17	3.08		
PULL #4	3.16	3.06		
PULL #5	3.12	3.06		
TOTAL	15.62	15.21		
AVERAGE	3.12			

	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	4.30	4.22		4.44
PULL #2	4.38	4.20		4.46
PULL #3	4.40	4.14		4.44
PULL #4	4.39	4.12		4.45
PULL #5	4.38	4.15		4.44
TOTAL	21.85	20.83		22.23
AVERAGE	4.37	4.16		4.44

For use of this form, see DA PAM 738-750 and 738-751; the proponent agency is DCSLOG

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USAPPC V1.10

M2400110481

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

R & E NUMBER	85662		
SERIAL NUMBER	C 6349221		
LOG-IN DATE	9-28-04		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	10-6-04	AC
560 A	RE-BARREL	10-7-04	R
B	DRILL AND TAP	10-12-04	TRW
575	ASSEMBLE	10-8-04	RTZ
600	PROOF	10-11-04	AC
605	CHECK HEADSPACE	10-12-04	RTZ
610	DIS-ASSEMBLE GUN	10-12-04	RTZ
612	MAGNAFLUX		
615	ROLLMARK CALIBER	10/13/04	CD
618	ROTO-BLAST	10/14/04	LB
620	APPLY COATINGS	10/25/04	HP
625 A	FINAL ASSEMBLY	10-27-04	RTZ
B	TRIGGER PULL TEST	11-8-04	RTZ
C	SAFETY "ON" FORCE	11-8-04	RTZ
D	SAFETY "OFF" FORCE	11-8-04	RTZ
E	FIRING PIN INDENT	11-8-04	
640	TARGET	11-4-04	TRW
655	FINAL INSPECT	11-8-04	RTZ
660	PACK	11-8-04	RTZ
		SHIP DATE	
QAR INSPECTION DATE			




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

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

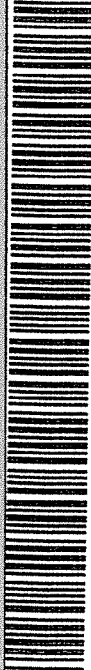
MODEL 700™ H24

**SERIAL NO.
C6349221**

**ORDER NO.
5716**

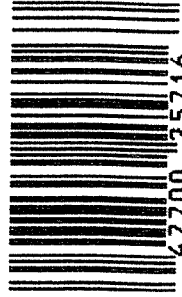
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5716 C6349221

UPC



0 47700 25716 7

RC-15

M-24

CONTRACT # DAAA21-87-C-0086

Replaced

GUN SERIAL # C6349221

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	1 12 90 QUALITY AUDIT		RW
600	Proof	1 12 90		A
607	Check Headspace	1 12 90		A
610	Dis-assemble Gun	1 12 90		RW
612	Magnaflux Barrel Action	1-16-90		KCR
	Magnaflux Bolt	1-17-90		KCR
615	Rollmark Caliber	1-17-90		GS
617	Drill and Tap Sight Holes	1-19-90		LS
618	Polish Barrel RB	1-22-90		WB
620	Apply Coatings (Barrel Action)		1-28-90	JA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		2/1/90	WB
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		2/1/90	RW
	C) Inspect Ejector Hole for Chamfer		2/1/90	RW
	D) Oil Firing Pin Ass'y		2/1/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		3/1/90	JD

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	6	6	6			2-1-90	JL
	G) Safety Off Force	3	3	3			2-1-90	JL
	H) Trigger Pull Test & Retainability						3/1/90	JL
	I) Firing Pin Indent	.0205	.0205	.021			2-1-90	JL
	J) Assemble Stock						2/26/90	RW
	K) Assemble Swivel Studs						3/13/90	WB
	L) Attach Front and Rear Sight Assemblies						2/26/90	RW
	M) Iron Sight Alignment						2/26/90	RW
	N) Detach Front & Rear Sights & place in numbered container						2/26/90	RW
	O) Attach Scope to Rifle						2/27/90	WB
	P) Detach & Attach Scope 20 Times						2/27/90	WB
640	Gallery Target & Test						2-27-90	AC
	A) Time						"	AC
	B) Malfunctions						"	AC
	C) Pierced Primers						"	AC
	D) Optical Clarity of Scope						"	AC
645	Inspect for Live Ammo						2-27-90	AC
655	Final Inspection							
	A) Headspace						16 MAR 90	JL
	B) Trigger Pull	266	273	278	235	269	16 MAR 90	JL
	C) Function						16 MAR 90	JL
660	Pack						19 MAR 90	JL

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#
3.00# ± .75#
4.00# ± 1.00#

SERIAL NO. C6349221

DATE 31 Jan 90

TESTER JES

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.56	2.42	2.51	2.66	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.44	2.45	2.50	2.73	
PULL #3	2.47	2.48	2.53	2.78	
PULL #4	2.53	2.47	2.53	2.35	
PULL #5	2.50	2.49	2.56	2.69	
TOTAL	12.50	12.31	12.63	13.21	
AVG.	2.50	2.462	2.526	2.642	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.11	3.09		
PULL #2	3.08	3.05		
PULL #3	3.12	3.08		
PULL #4	3.12	3.07		
PULL #5	3.14	3.08		
TOTAL	15.57	15.37		
AVG.	3.114	3.074		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.10	4.04		4.12
PULL #2	4.12	4.03		4.13
PULL #3	4.09	4.06		4.10
PULL #4	4.04	4.04		4.14
PULL #5	4.07	4.01		4.02
TOTAL	20.42	20.18		20.51
AVG.	4.084	4.036		4.102

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06349221
28 Feb 1990

CENTROIDAL DISTANCES

0 TO 1	.655347
1 TO 2	.86539
1 TO 3	.227554
1 TO 4	.460614
1 TO 5	.516016

$\frac{d}{c^2}$ <----POB

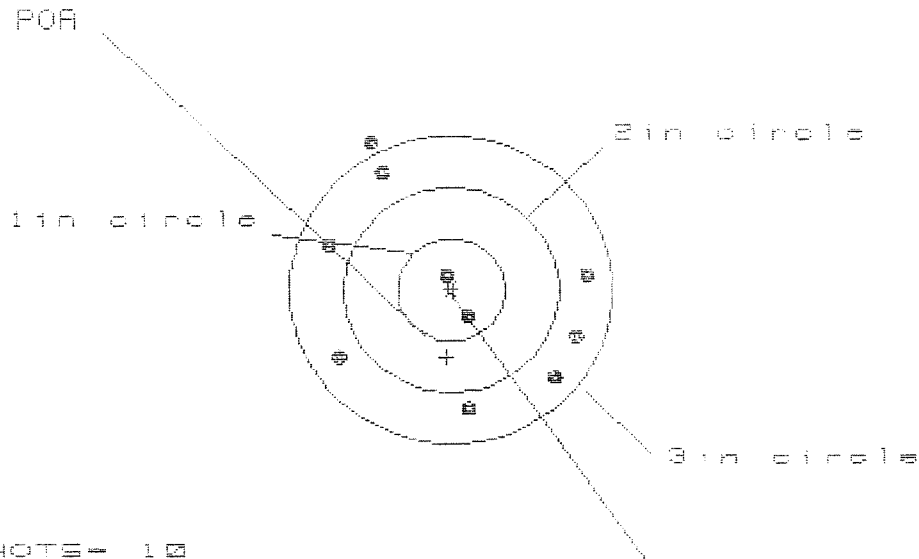
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0086
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .2496
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .249948

AMP FOR THIS RIFLE IS: .889

02 Feb 1998

FILE:/PATTERNING/CENTERFIRE_PATT/08349221

CENTERFIRE PATTERNS # 1



OF SHOTS = 10

IN CIR

1in = 2

2in = 2

3in = 6

RS = 2.392

VS = 2.600

GS = 2.882

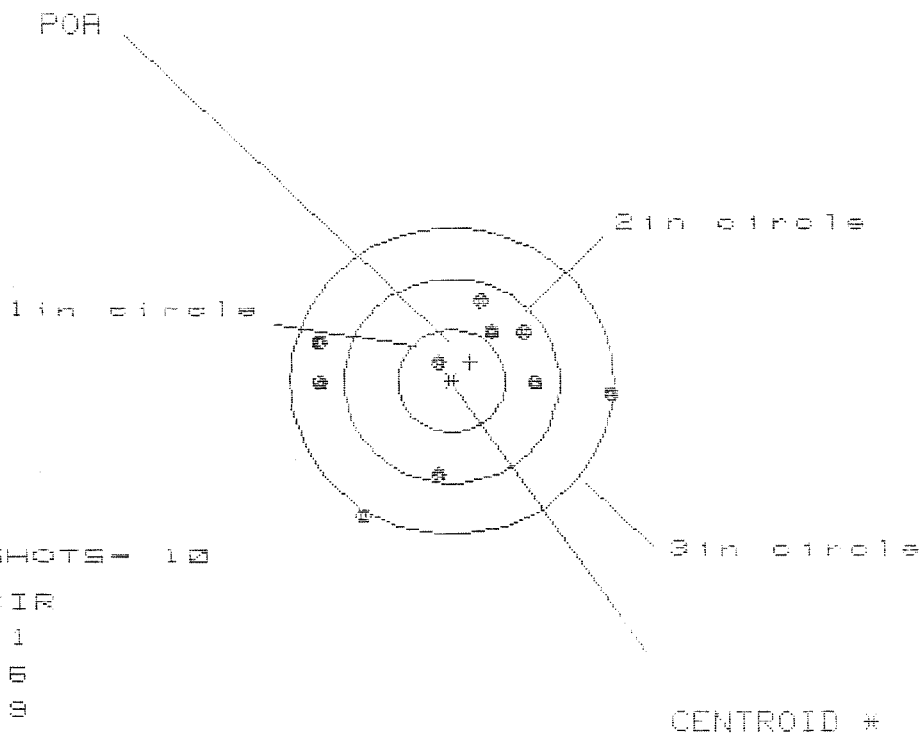
CENTROID #

PATTERN #	:	1	2	3
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.213	1.128	1.038
MINIMUM X	:	-1.179	-1.264	-1.354
MAXIMUM Y	:	1.481	1.313	.737
MINIMUM Y	:	-1.119	-.955	-.791
CENTROID X	:	.042	.127	.217
CENTROID Y	:	.654	.490	.326
POA TO CENTROID in.	:	.656	.596	.391
MIN RADIUS	:	.117	.145	.079
MEAN RADIUS	:	1.075	.987	.901
MAX RADIUS	:	1.667	1.498	1.542
HORIZONTAL SPREAD	:	2.392	2.392	2.392
VERTICAL SPREAD	:	2.600	2.268	1.528
MEAN SPREAD	:	2.882	2.540	2.476
IN ONE INCH CIRCLE	=	2		
IN TWO INCH CIRCLE	=	2		
IN THREE INCH CIRCLE	=		9	

27 Feb 1988

FILE:/PATTERNING/CENTERFIRE_PATT/08348221

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 6

3 in = 9

HS= 2.732

VS= 2.141

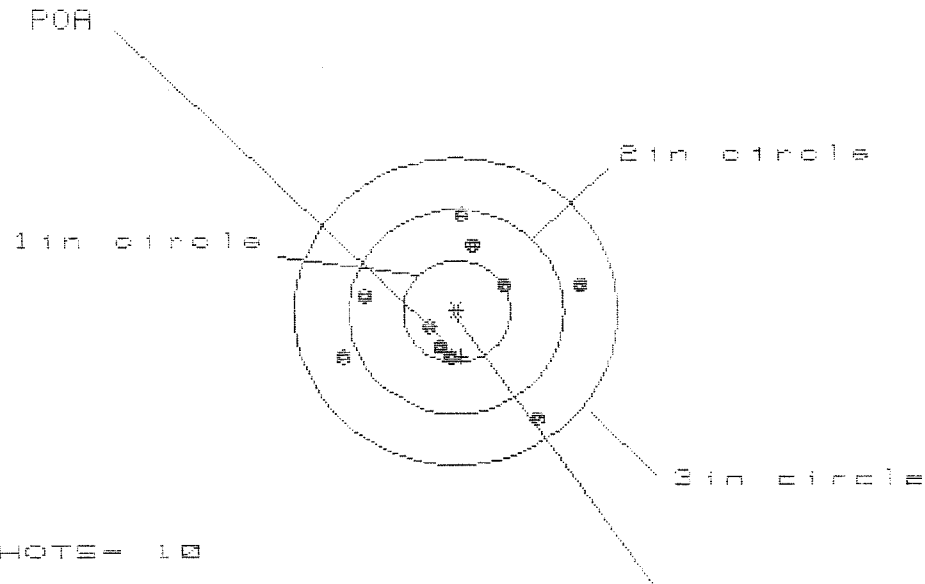
GS= 2.754

PATTERN #	2		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.469	1.376	.829
MINIMUM X	-1.263	-1.356	-1.184
MAXIMUM Y	.814	.667	.629
MINIMUM Y	-1.327	-1.021	-1.059
CENTROID X	-.174	-.081	-.253
CENTROID Y	-.184	-.037	.001
POA TO CENTROID in.	.253	.089	.253
MIN RADIUS	.234	.239	.064
MEAN RADIUS	.974	.872	.801
MAX RADIUS	1.566	1.409	1.199
HORIZONTAL SPREAD	2.732	2.732	2.013
VERTICAL SPREAD	2.141	1.688	1.688
EXTREME SPREAD	2.754	2.754	2.016
SHOTS IN ONE INCH CIRCLE	=	1	
SHOTS IN TWO INCH CIRCLE	=	6	
SHOTS IN THREE INCH CIRCLE	=	9	

27 Feb 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06349221

CENTERFIRE PATTERNS # 3



OF SHOTS - 10

IN CIR

1in = 3

2in = 7

3in = 10

HS = 2.252

VS = 2.001

GS = 2.369

CENTROID #

PATTERN #	3	3	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.192	1.270	.644
MINIMUM X	-1.060	-.982	-.823
MAXIMUM Y	.962	.847	.871
MINIMUM Y	-1.039	-.547	-.523
CENTROID X	-.048	-.126	-.285
CENTROID Y	.445	.560	.536
POA TO CENTROID in.	.447	.574	.607
MIN RADIUS	.318	.322	.224
MEAN RADIUS	.776	.718	.632
MAX RADIUS	1.257	1.284	.975
HORIZONTAL SPREAD	2.252	2.252	1.467
VERTICAL SPREAD	2.001	1.394	1.394
EXTREME SPREAD	2.369	2.369	1.762
NUMBER IN ONE INCH CIRCLE	=	3	
NUMBER IN TWO INCH CIRCLE	=	7	
NUMBER IN THREE INCH CIRCLE	=	10	

27 Feb 1938

FILE:/PATTERNING/CENTERFIRE_PATT/06349221

CENTERFIRE PATTERNS

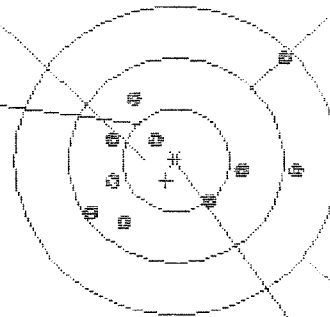
4

POA

1 in circle

2 in circle

3 in circle



CENTROID *

OF SHOTS= 10

IN CIR

1 in = 1

2 in = 8

3 in = 10

HS= 1.920

VS= 1.660

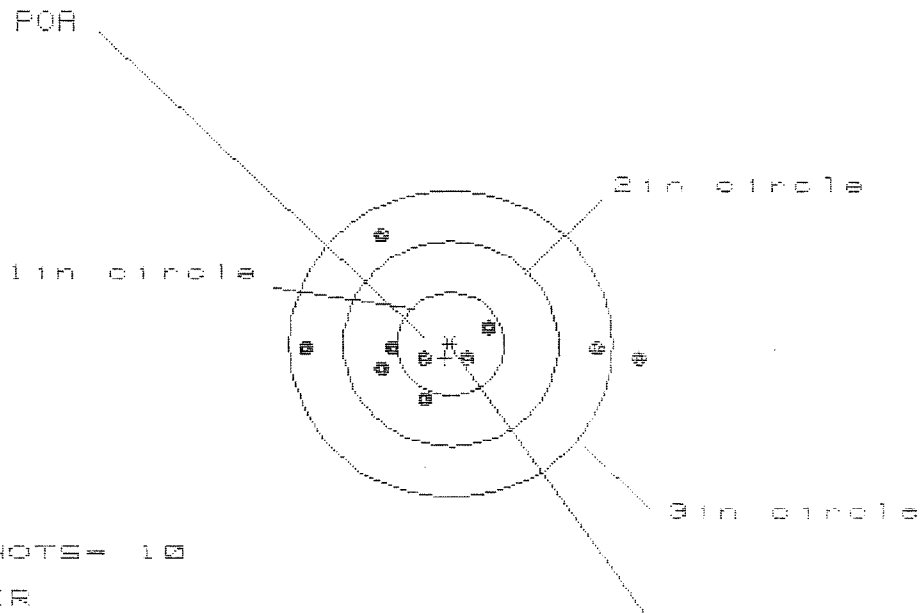
GS= 2.305

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.156	1.266	.892
MINIMUM X	:	-.764	-.654	-.496
MAXIMUM Y	:	1.016	.744	.743
MINIMUM Y	:	-.644	-.532	-.533
CENTROID X	:	.091	-.019	-.177
CENTROID Y	:	.196	.084	.085
POA TO CENTROID in.	:	.217	.086	.196
MIN RADIUS	:	.217	.277	.301
MEAN RADIUS	:	.773	.680	.578
MAX RADIUS	:	1.417	1.266	.892
HORIZONTAL SPREAD	:	1.920	1.920	1.388
VERTICAL SPREAD	:	1.660	1.276	1.276
EXTREME SPREAD	:	2.305	1.953	1.445
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		10	

27 Feb 1988

FILE://PATTERNING/CENTERFIRE_PATT/08349221

CENTERFIRE PATTERNS # 5



OF SHOTS= 10

IN CIR

1in = 3

2in = 6

3in = 9

HS= 3.127

VS= 1.627

GS= 3.128

CENTROID *

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.736	1.544	1.394
MINIMUM X	:	-1.391	-1.198	-1.619
MAXIMUM Y	:	1.088	1.070	1.059
MINIMUM Y	:	-.539	-.557	-.568
CENTROID X	:	.046	-.147	.003
CENTROID Y	:	.138	.156	.167
POA TO CENTROID in.	:	.146	.214	.167
MIN RADIUS	:	.242	.112	.217
MEAN RADIUS	:	.847	.715	.665
MAX RADIUS	:	1.744	1.544	1.395
HORIZONTAL SPREAD	:	3.127	2.742	2.013
VERTICAL SPREAD	:	1.627	1.627	1.627
EXTREME SPREAD	:	3.129	2.742	2.278
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	