

4-2
C6498820

MODEL 700™ M24

Model **SWS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

Serial Number: C6498820

Model: M24 SWS



RE00112656

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6498820.___0
FILE DATE AND TIME: 06/14/2006 16:14

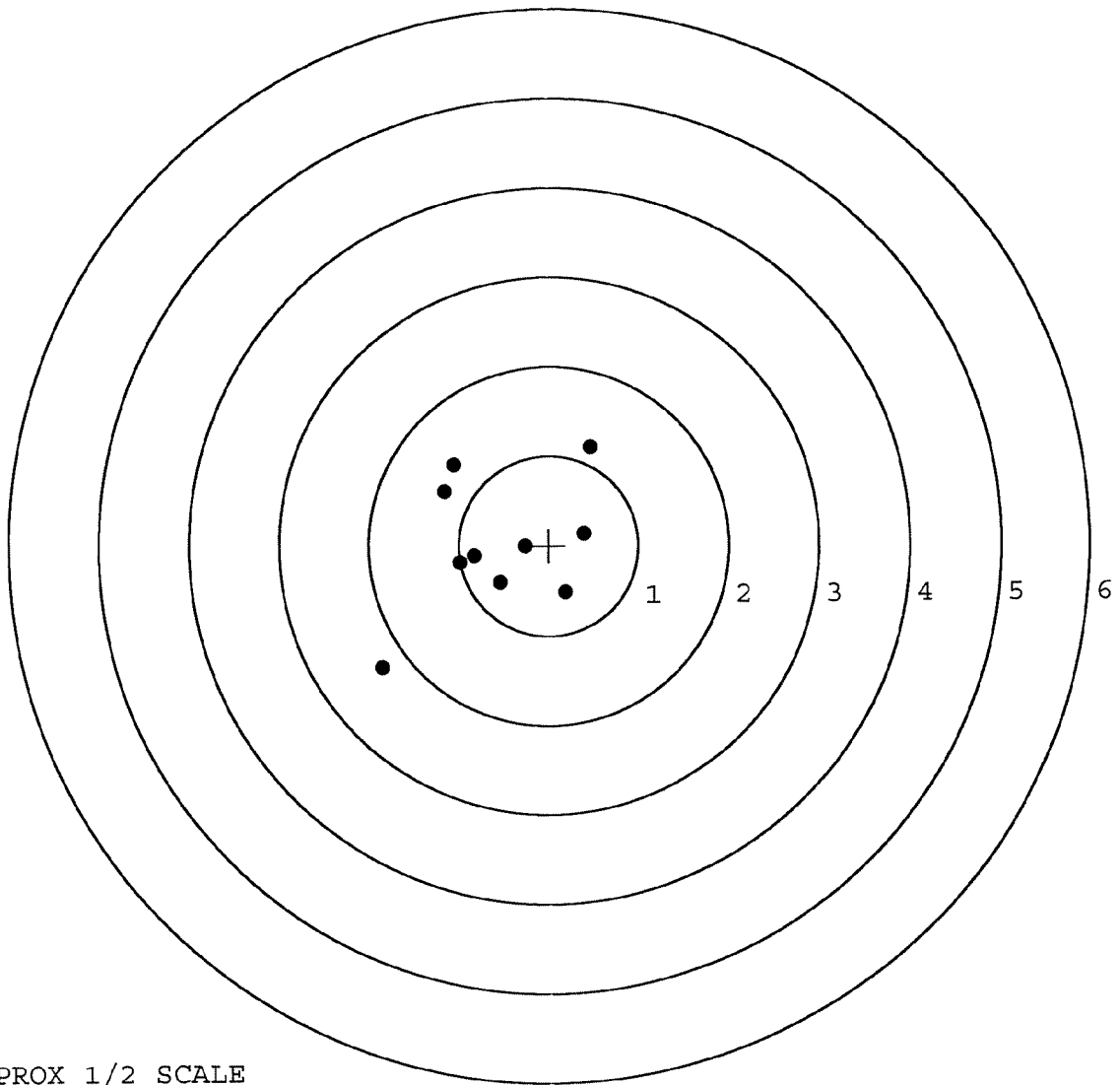
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.109
The Average Y Centroid of the Five Target Set:	0.020
The Average Point of Impact of the Five Target Set:	0.111
The Average Mean Radius of the Five Target Set:	0.801
The Distance from POA to Centroid Target #1:	0.564
The Distance from Centroid Target #2 to Centroid Target #1:	0.529
The Distance from Centroid Target #3 to Centroid Target #1:	0.477
The Distance from Centroid Target #4 to Centroid Target #1:	0.558
The Distance from Centroid Target #5 to Centroid Target #1:	0.844

SERIAL NUMBER: C6498820. __ 0
 TARGET NUMBER: 1
 FILE DATE: 06/14/2006
 FILE TIME: 16:14

X CENTROID: -0.563
 Y CENTROID: 0.014
 POA TO CENTROID: 0.564
 HORZ SPREAD: 2.325
 VERT SPREAD: 2.446
 GROUP SPREAD: 3.375
 MIN RADIUS: 0.299
 MAX RADIUS: 1.879
 MEAN RADIUS: 0.862
 # IN 1 IN DIAMETER: 4
 # IN 2 IN DIAMETER: 7
 # in 3 IN DIAMETER: 9

POINT#	X	Y
1:	-1.855	-1.351
2:	-1.053	0.906
3:	-1.155	0.610
4:	-0.990	-0.188
5:	-0.831	-0.119
6:	0.470	1.095
7:	0.399	0.128
8:	-0.264	-0.007
9:	-0.542	-0.411
10:	0.186	-0.526

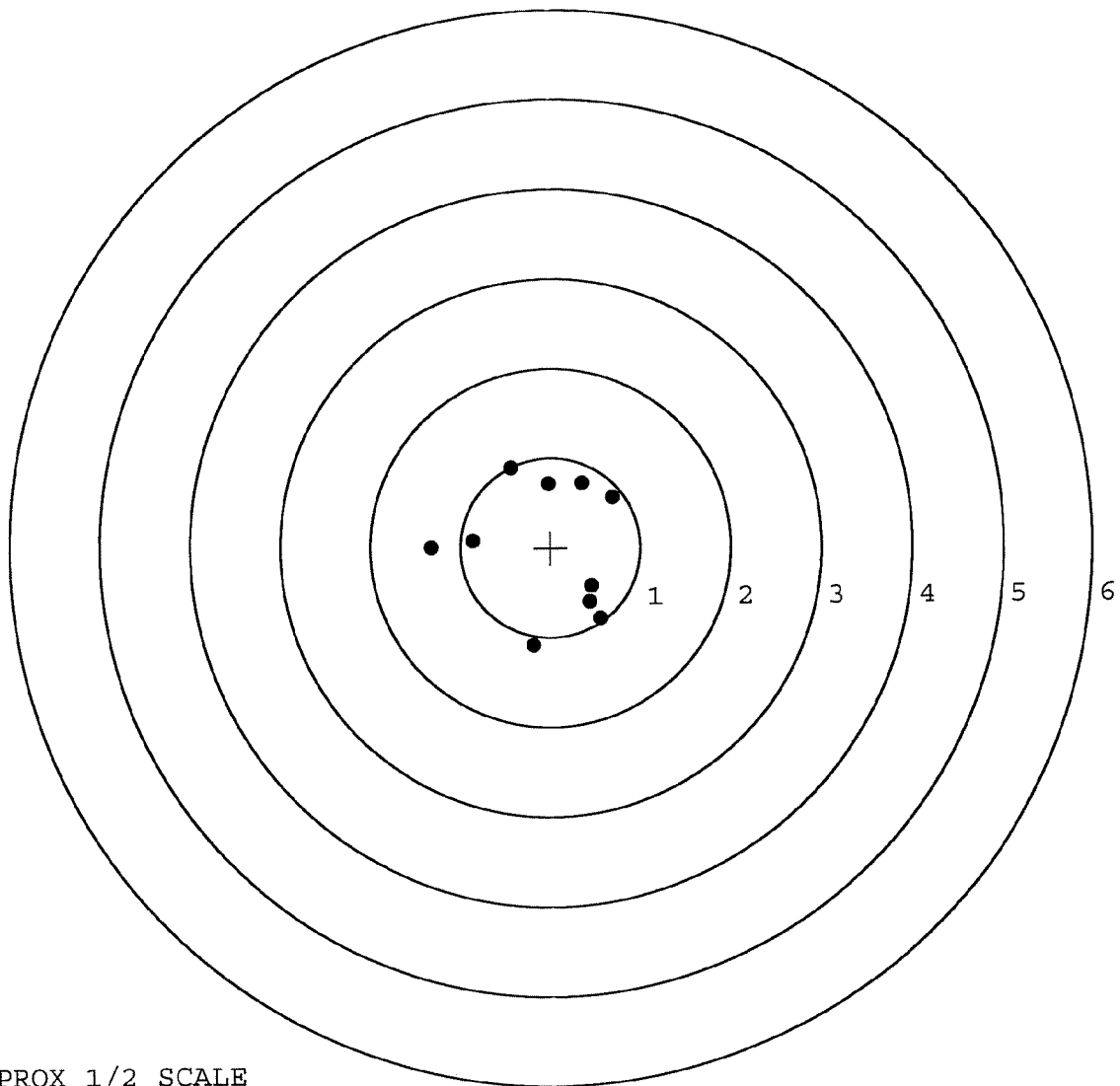


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498820. 0
 TARGET NUMBER: 2
 FILE DATE: 06/14/2006
 FILE TIME: 16:14

X CENTROID: -0.034
 Y CENTROID: 0.005
 POA TO CENTROID: 0.034
 HORZ SPREAD: 2.019
 VERT SPREAD: 1.988
 GROUP SPREAD: 2.092
 MIN RADIUS: 0.654
 MAX RADIUS: 1.292
 MEAN RADIUS: 0.906
 # IN 1 IN DIAMETER: 0
 # IN 2 IN DIAMETER: 8
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.439	0.893
2:	-0.020	0.709
3:	0.360	0.719
4:	0.693	0.558
5:	0.457	-0.427
6:	0.552	-0.797
7:	-0.195	-1.095
8:	-0.861	0.085
9:	-1.326	0.009
10:	0.438	-0.607

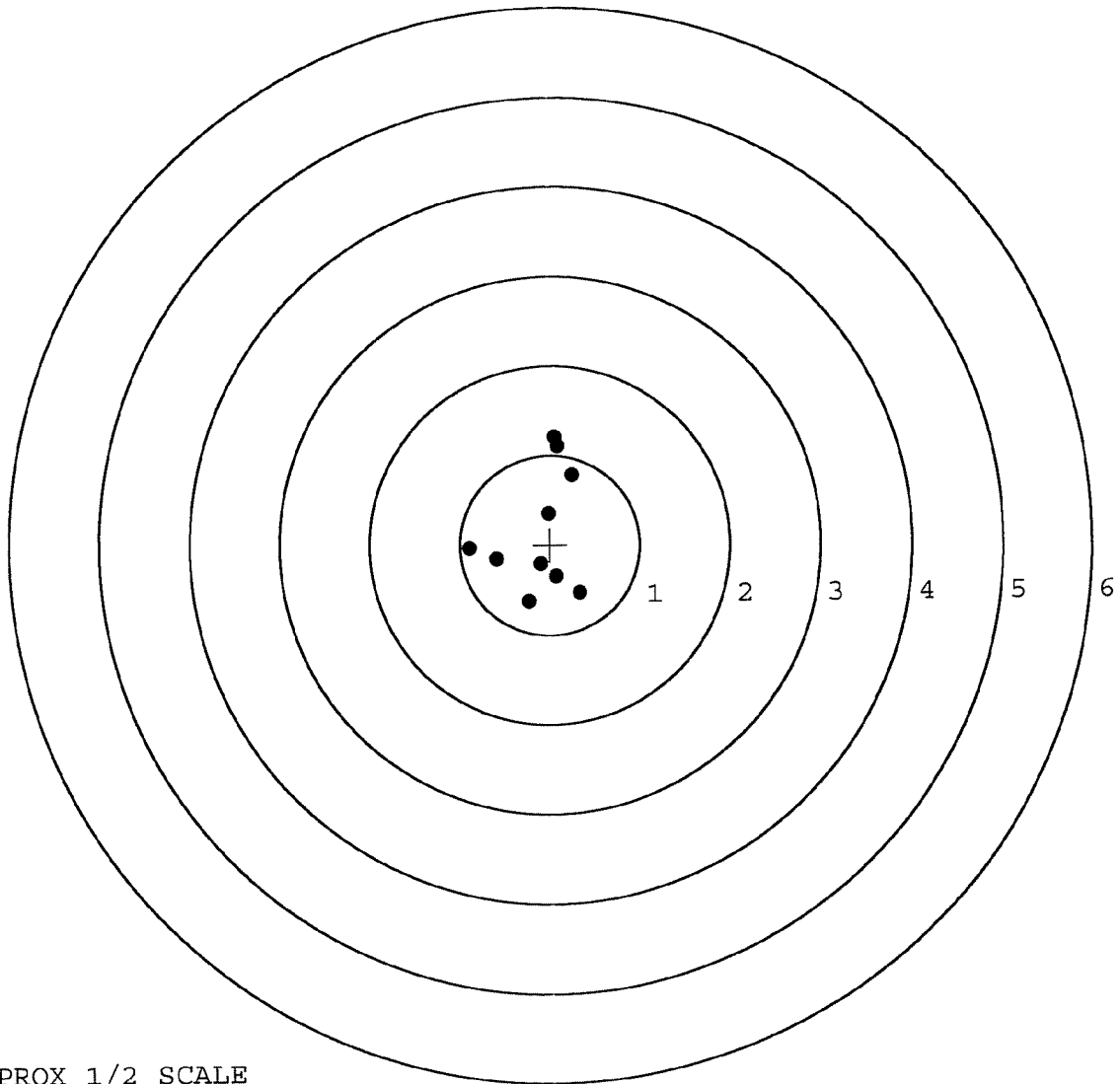


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498820. 0
 TARGET NUMBER: 3
 FILE DATE: 06/14/2006
 FILE TIME: 16:14

X CENTROID: -0.107
 Y CENTROID: 0.150
 POA TO CENTROID: 0.184
 HORZ SPREAD: 1.227
 VERT SPREAD: 1.839
 GROUP SPREAD: 1.863
 MIN RADIUS: 0.220
 MAX RADIUS: 1.069
 MEAN RADIUS: 0.689
 # IN 1 IN DIAMETER: 2
 # IN 2 IN DIAMETER: 9
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.057	1.206
2:	0.087	1.105
3:	0.251	0.779
4:	-0.016	0.350
5:	-0.895	-0.034
6:	-0.600	-0.158
7:	-0.242	-0.633
8:	-0.110	-0.218
9:	0.068	-0.358
10:	0.332	-0.540

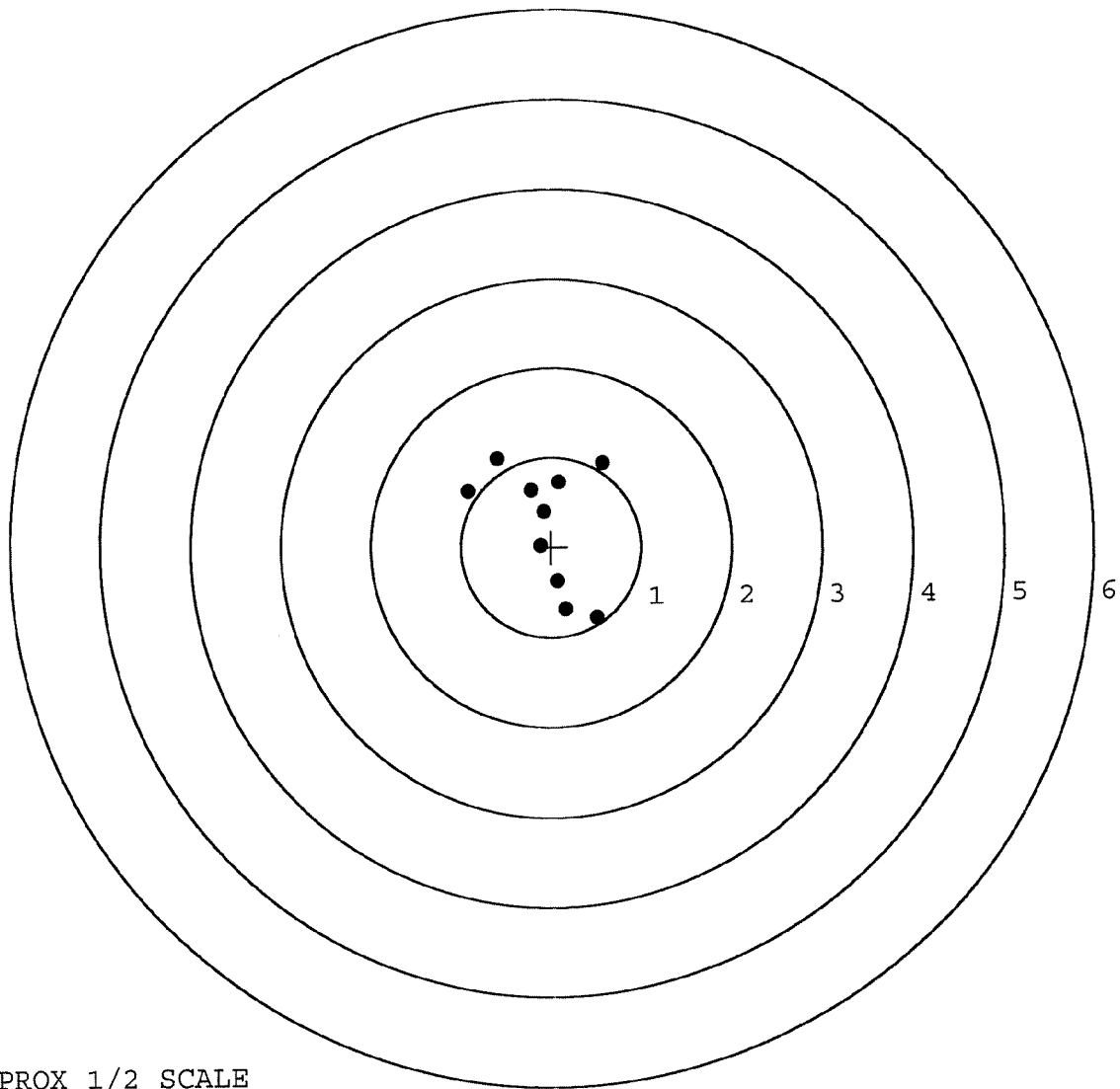


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498820. __0
 TARGET NUMBER: 4
 FILE DATE: 06/14/2006
 FILE TIME: 16:14

X CENTROID: -0.056
 Y CENTROID: 0.245
 POA TO CENTROID: 0.252
 HORZ SPREAD: 1.494
 VERT SPREAD: 1.777
 GROUP SPREAD: 2.089
 MIN RADIUS: 0.151
 MAX RADIUS: 1.175
 MEAN RADIUS: 0.689
 # IN 1 IN DIAMETER: 4
 # IN 2 IN DIAMETER: 9
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.595	0.989
2:	-0.919	0.631
3:	-0.226	0.639
4:	0.088	0.722
5:	0.575	0.929
6:	-0.083	0.394
7:	-0.121	0.015
8:	0.067	-0.382
9:	0.154	-0.694
10:	0.503	-0.788



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498820. __0

TARGET NUMBER: 5

FILE DATE: 06/14/2006

FILE TIME: 16:14

X CENTROID: 0.216

Y CENTROID: -0.312

POA TO CENTROID: 0.379

HORZ SPREAD: 1.972

VERT SPREAD: 1.756

GROUP SPREAD: 2.621

MIN RADIUS: 0.196

MAX RADIUS: 1.433

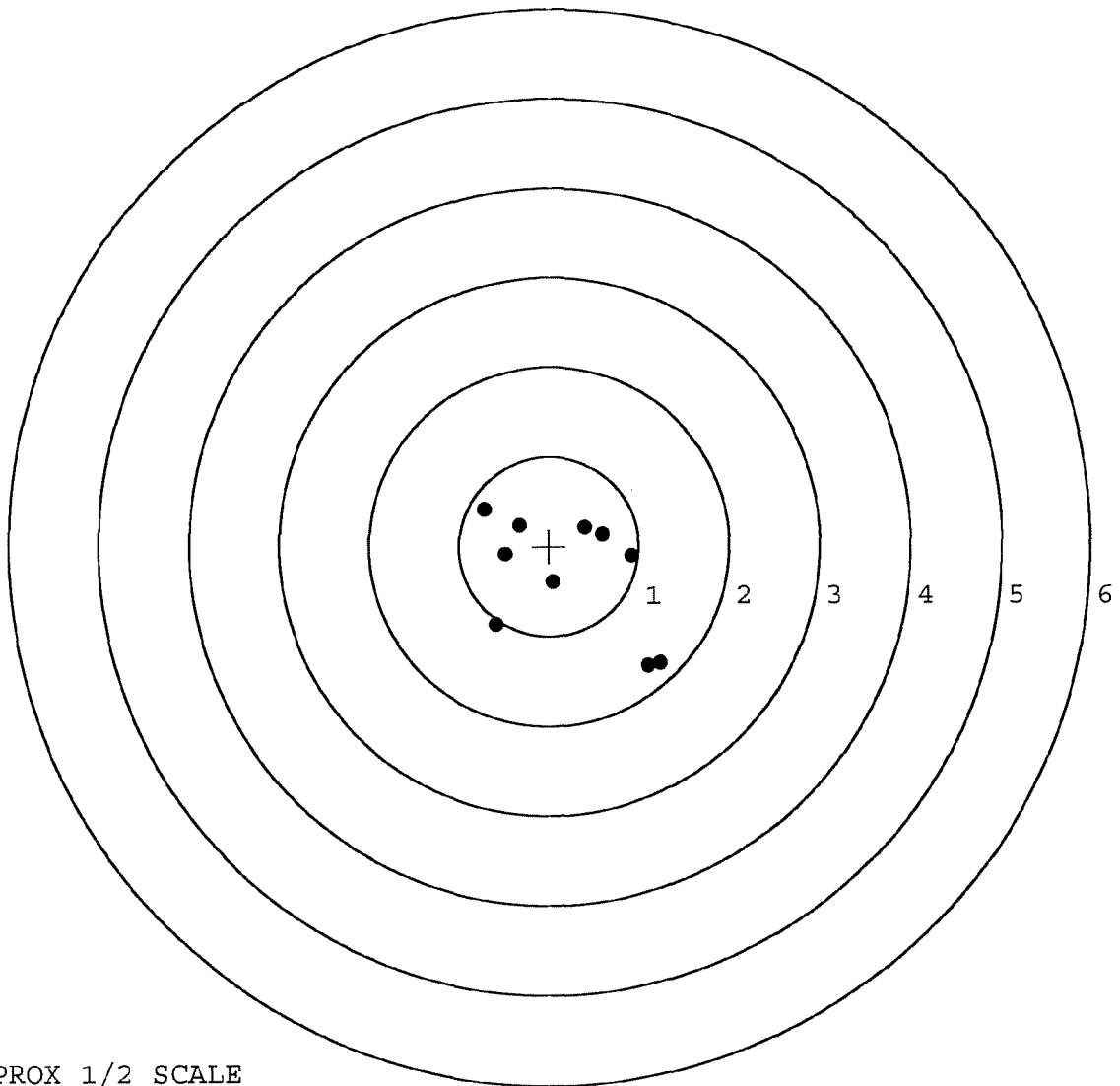
MEAN RADIUS: 0.857

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.492	-0.093
2:	-0.338	0.240
3:	-0.726	0.419
4:	-0.598	-0.877
5:	0.042	-0.402
6:	0.398	0.215
7:	0.591	0.137
8:	0.924	-0.111
9:	1.246	-1.307
10:	1.111	-1.337



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)

DATE 6-2-06TESTER R.P.

	2.50 LBS INITIAL	2.50 LBS AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50 LBS		COMMENTS
PULL #1	250	246		262	
PULL #2	255	233		258	
PULL #3	252	240		263	
PULL #4	240	242		260	
PULL #5	243	241		249	
TOTAL	1240	1202		1292	
AVERAGE	248	240		258	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES		COMMENTS
PULL #1	310	325		
PULL #2	318	312		
PULL #3	310	322		
PULL #4	311	320		
PULL #5	305	301		
TOTAL	1554	1580		
AVERAGE	310	316		

	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	4.09		4.05
PULL #2	4.09	4.11		4.00
PULL #3	4.03	4.15		4.01
PULL #4	4.16	4.09		3.99
PULL #5	4.08	4.11		4.03
TOTAL	20.40	20.55		20.08
AVERAGE	4.08	4.11		4.01

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

R & E NUMBER	112656		
SERIAL NUMBER	C60498820		
LOG-IN DATE	5-22-06		
OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	6-5-06	RTZ
505	RE-BARREL	6-6-06	RTZ
560	ASSEMBLE	6-7-06	RTZ
600	PROOF	MAGNA-FLUX INSPECTED	TRW
605	CHECK HEADSPACE	6-7-06	RTZ
610	DIS-ASSEMBLE GUN	JUN 09 2006 6-7-06	RTZ
612	MAGNAFLUX	OPERATOR <u>APD</u> 6-9-06	APD
510	DRILL AND TAP	6-8-06	TRW
615	ROLLMARK CALIBER	6-9-06	CW
618	ROTO-BLAST	6-9-06	LB
620	APPLY COATINGS	6-13-06	TRW
625	FINAL ASSEMBLY	6-14-06	RTZ
640	FUNCTION TEST AND	PASS FAIL	6-14-06 mth
650	TARGET	PASS FAIL	6-14-06 mth
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	N/A
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION	6-20-06	APD
	A) HEADSPACE	PASS FAIL	6-20-06 APD
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	2.29 2.34 2.26 2.27 2.28 6-15-06 RA
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS MAX	5.5 5.5 5.5 6-15-06 RA
	G) SAFETY OFF FORCE	2 LBS MIN	3.2 2.5 3.2 6-15-06 RA
	I) FIRING PIN INDENT	.020	.0235 .024 .024 6-15-06 RA
690	PACK		6-28-06 RA

Remington®



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

MODEL 700™ M24

SERIAL NO.
C6498820

ORDER NO.
5716

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

01



5716 C6498820

UPC



0 47700 25716 7

BARBER - M24 0008357

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

BARBER - M24 000835708396

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6498820

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	5 9 90		RW
600	Proof	5 9 90		RW
607	Check Headspace	5 9 90		RW
610	Dis-assemble Gun	5 9 90		RW
612	Magnaflux Barrel Action	5-15-90		KER
	Magnaflux Bolt	5-15-90		KER
615	Rollmark Caliber	5-15-90		GS
617	Drill and Tap Sight Holes		5/17/90	FB
618	Polish Barrel RB		5/17/90	WB
620	Apply Coatings (Barrel Action)		5-25-90	TJA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		5/25/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		5/25/90	RW
	C) Inspect Ejector Hole for Chamfer		5/25/90	RW
	D) Oil Firing Pin Ass'y		5/25/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		6-4-90	XL

BARBER - M24 0008359

BARBER - M24 0008359								
op. #	OP. NAME	READINGS			DATE	INIT		
625 cont.	F) Safety On Force	3	3	3	6-5-90	JH		
	G) Safety Off Force	2	2	2	6-5-90	JH		
	H) Trigger Pull Test & Retainability				6-4-90	JH		
	I) Firing Pin Indent	.024	.023	.024	6-5-90	JH		
	J) Assemble Stock				6/5/90	RW		
	K) Assemble Swivel Studs				6/5/90	JH		
	L) Attach Front and Rear Sight Assemblies				6/5/90	RW		
	M) Iron Sight Alignment				6/5/90	RW		
	N) Detach Front & Rear Sights & place in numbered container				6/5/90	RW		
	O) Attach Scope to Rifle				6/6/90	WB		
	P) Detach & Attach Scope 20 Times				6/6/90	WB		
640	Gallery Target & Test				6-7-90	DH		
	A) Time				6-7-90	DH		
	B) Malfunctions				6-7-90	DH		
	C) Pierced Primers				6-7-90	DH		
	D) Optical Clarity of Scope				6-7-90	DH		
645	Inspect for Live Ammo				6-7-90	DH		
655	Final Inspection				6-8-90	JH		
	A) Headspace				6-8-90	JH		
	B) Trigger Pull	2.17	2.17	2.16	2.19	2.19	6-8-90	JH
	C) Function						6-8-90	JH
660	Pack				6-9-90	DH		

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO. 664988/20

DATE 6-4-90

TESTER JRI

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.28	2.23	2.35	2.17	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.22	2.30	2.30	2.17	
PULL #3	2.30	2.23	2.36	2.16	
PULL #4	2.38	2.35	2.20	2.19	
PULL #5	2.33	2.30	2.32	2.19	
TOTAL	11.51	11.41	11.53		
AVG.	2.302	2.282	2.306		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.47	3.46		
PULL #2	3.49	3.28		
PULL #3	3.37	3.28		
PULL #4	3.35	3.19		
PULL #5	3.30	3.29		
TOTAL	16.98	16.50		
AVG.	3.396	3.3		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.33	4.25		4.31
PULL #2	4.39	4.20		4.16
PULL #3	4.39	4.25		4.31
PULL #4	4.39	4.18		4.38
PULL #5	4.32	4.26		4.23
TOTAL	21.82	21.14		21.33
AVG.	4.364	4.228		4.266

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6498820
7 Jun 1990

CENTROIDAL DISTANCES

0 TO	1	1.12166
1 TO	2	.878957
1 TO	3	.635681
1 TO	4	.310672
1 TO	5	.974647

+ ¹/₅ <----FOR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .6432
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .1694
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .665134
THE AMR FOR THIS RIFLE IS: .8062

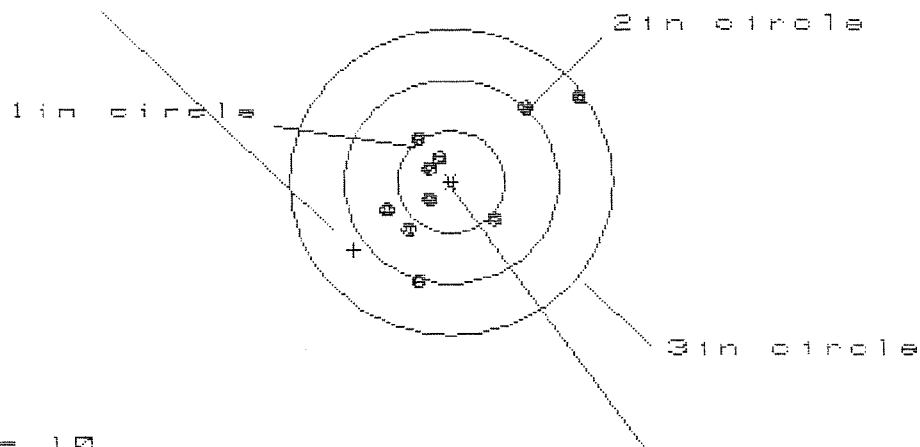
7 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6498820

CENTERFIRE PATTERNS

1

POA



OF SHOTS= 10

IN CIR

1in = 4

2in = 8

3in = 10

HS= 1.827

VS= 1.743

GS= 2.318

CENTROID *

PATTERN #	:	1	2	3
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.188	.833	.589
MINIMUM X	:	-.639	-.507	-.403
MAXIMUM Y	:	.808	.809	.611
MINIMUM Y	:	-.935	-.846	-.744
CENTROID X	:	.984	.772	.662
CENTROID Y	:	.664	.575	.473
POA TO CENTROID in.	:	1.122	.962	.713
MIN RADIUS	:	.238	.128	.071
MEAN RADIUS	:	.659	.537	.441
MAX RADIUS	:	1.437	1.162	.721
HORIZONTAL SPREAD	:	1.827	1.340	.891

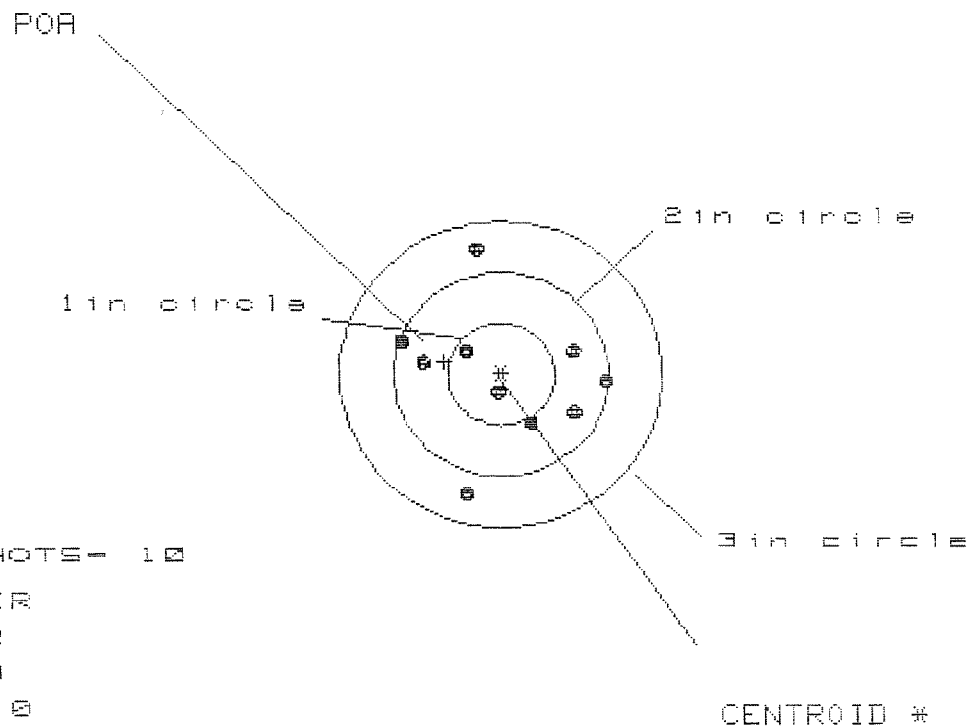
BARBER - M24 0008363

VERTICAL	SPREAD	:	1.743	1.655	1.355
EXTREME	SPREAD	:	2.318	1.955	1.355
NUMBER IN ONE	INCH CIRCLE	=		4	
NUMBER IN TWO	INCH CIRCLE	=		8	
NUMBER IN THREE	INCH CIRCLE	=		10	

7 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/05498820

CENTERFIRE PATTERNS # 2



OF SHOTS - 10

IN CIR

1in = 2

2in = 8

3in = 10

HS = 1.827

VS = 2.316

GS = 2.316

CENTROID *

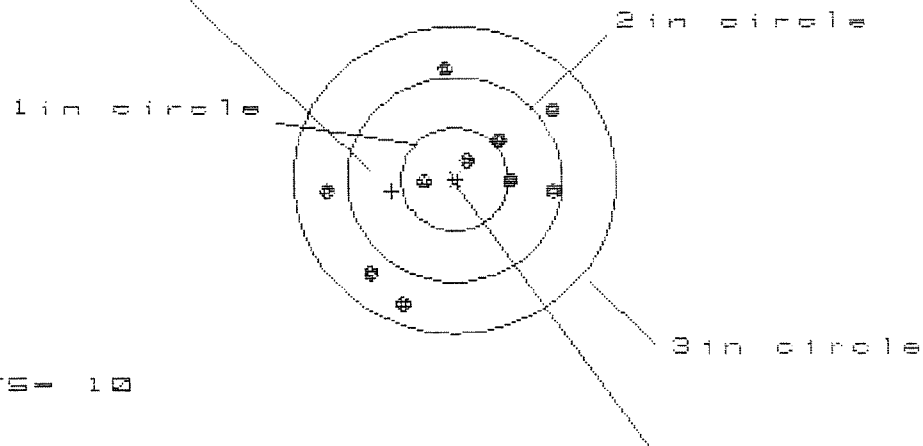
PATTERN #	2	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.929	.901	.860
MINIMUM X	-.898	-.926	-.967
MAXIMUM Y	1.196	.512	.389
MINIMUM Y	-1.120	-.987	-.468
CENTROID X	.527	.555	.596
CENTROID Y	-.130	-.263	-.140
POR TO CENTROID in.	.543	.614	.612
MIN RADIUS	.184	.083	.202
MEAN RADIUS	.757	.687	.646
MAX RADIUS	1.223	1.058	1.042
HORIZONTAL SPREAD	1.827	1.827	1.827
VERTICAL SPREAD	2.316	1.499	.857
EXTREME SPREAD	2.316	1.875	1.875
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	8		
NUMBER IN THREE INCH CIRCLE =	10		

7 Jun 1990

FILE:/PATTERNING/CENTERFIRE_PATT/C6498820

CENTERFIRE PATTERNS # 3

POA



OF SHOTS = 10

IN CIR

1 in = 3

2 in = 5

3 in = 10

HS = 2.111

VS = 2.333

GS = 2.402

CENTROID *

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.937	.882	.778
MINIMUM X	:	-1.174	-1.229	-1.333
MAXIMUM Y	:	1.110	.974	.840
MINIMUM Y	:	-1.223	-1.073	-.412
CENTROID X	:	.587	.642	.746
CENTROID Y	:	.113	.249	.383
POA TO CENTROID in.	:	.597	.689	.839
MIN RADIUS	:	.260	.115	.056
MEAN RADIUS	:	.859	.778	.673
MAX RADIUS	:	1.321	1.358	1.382
HORIZONTAL SPREAD	:	2.111	2.111	2.111
VERTICAL SPREAD	:	2.333	2.047	1.252
EXTREME SPREAD	:	2.402	2.372	2.256
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		10	

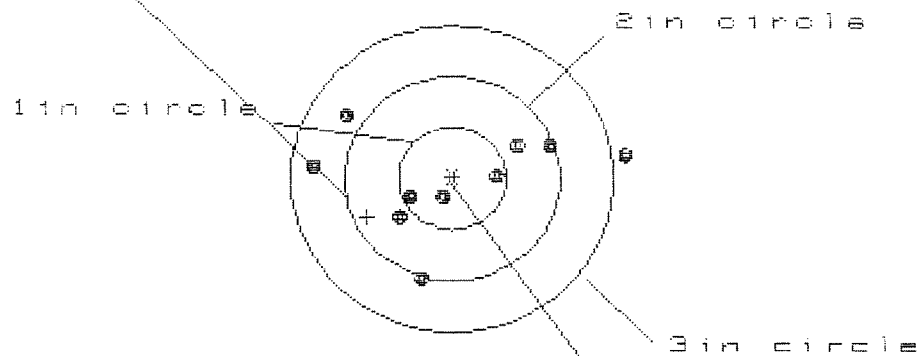
7 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8498820

CENTERFIRE PATTERNS

4

POA



OF SHOTS= 10

IN CIR

1in = 3

2in = 6

3in = 9

HS= 2.840

VS= 1.654

GS= 2.841

CENTROID *

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.589	1.106	.972
MINIMUM X	:	-1.251	-1.075	-.969
MAXIMUM Y	:	.664	.691	.716
MINIMUM Y	:	-.990	-.963	-.938
CENTROID X	:	.790	.614	.748
CENTROID Y	:	.375	.348	.323
POA TO CENTROID in.	:	.875	.706	.815
MIN RADIUS	:	.179	.121	.112
MEAN RADIUS	:	.841	.735	.682
MAX RADIUS	:	1.607	1.149	1.205
HORIZONTAL SPREAD	:	2.840	2.181	1.941
VERTICAL SPREAD	:	1.654	1.654	1.654
EXTREME SPREAD	:	2.841	2.184	1.978
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	

7 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/CS498820

CENTERFIRE PATTERNS

5

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS - 10

IN CIR

1in = 2

2in = 7

3in = 7

HS = 2.9000

VS = 2.3000

GS = 3.1000

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.549	1.398	.606
MINIMUM X	:	-1.351	-.791	-.616
MAXIMUM Y	:	1.394	1.293	1.306
MINIMUM Y	:	-.914	-.919	-.906
CENTROID X	:	.408	.559	.384
CENTROID Y	:	-.175	-.074	-.087
POA TO CENTROID in.	:	.445	.564	.394
MIN RADIUS	:	.346	.201	.367
MEAN RADIUS	:	.915	.823	.743
MAX RADIUS	:	1.631	1.402	1.440
HORIZONTAL SPREAD	:	2.900	2.189	1.222
VERTICAL SPREAD	:	2.308	2.212	2.212
EXTREME SPREAD	:	3.109	2.341	2.341
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		7	

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6498820
13 Jun 1990

CENTROIDAL DISTANCES

0 TO	1	.207183
1 TO	2	.340156
1 TO	3	.342475
1 TO	4	.526886
1 TO	5	.505365

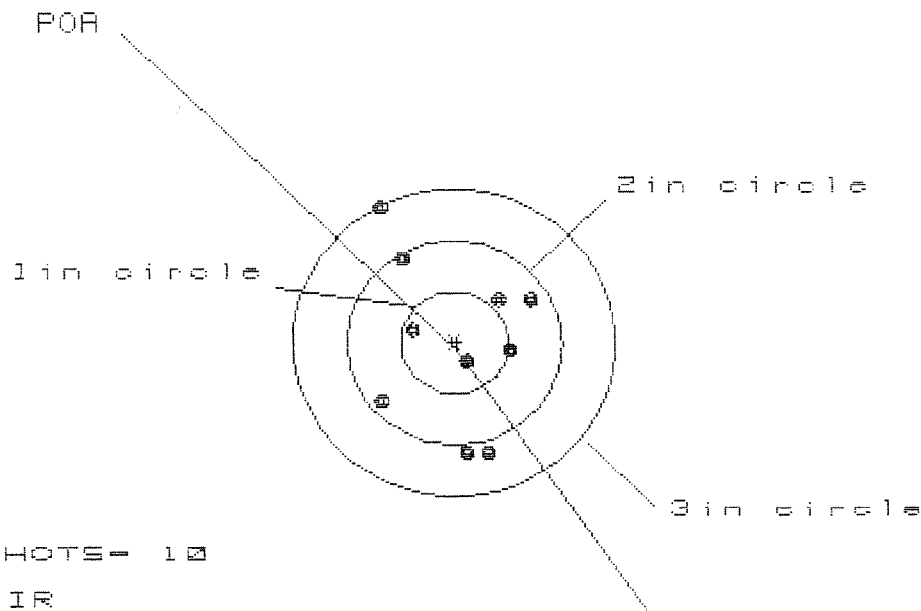
4a <----POA
4

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .1302
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0272
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .133011
THE AMR FOR THIS RIFLE IS: .8514

13 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C649B820.1

CENTERFIRE PATTERNS # 1



OF SHOTS= 10

IN CIR

1in = 2

2in = 7

3in = 10

HS= 1.411

VS= 2.442

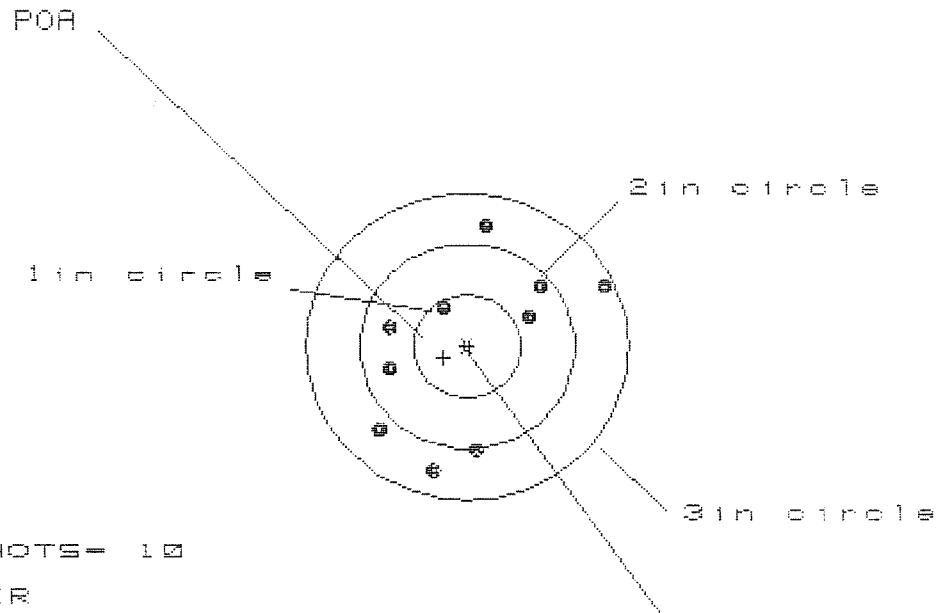
GS= 2.621

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.755	.682	.710
MINIMUM X	-.656	-.713	-.685
MAXIMUM Y	1.336	.948	.828
MINIMUM Y	-1.106	-.957	-1.020
CENTROID X	-.114	-.041	-.069
CENTROID Y	.173	.024	.144
POA TO CENTROID in.	.207	.047	.159
MIN RADIUS	.200	.034	.156
MEAN RADIUS	.801	.701	.667
MAX RADIUS	1.489	1.088	1.023
HORIZONTAL SPREAD	1.411	1.395	1.395
VERTICAL SPREAD	2.442	1.905	1.848
EXTREME SPREAD	2.621	2.050	1.908
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	7		
NUMBER IN THREE INCH CIRCLE =	10		

13 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C649B820.1

CENTERFIRE PATTERNS # 2



OF SHOTS = 10

IN CIR

1 in = 1

2 in = 5

3 in = 10

HS = 2.039

VS = 2.356

GS = 2.469

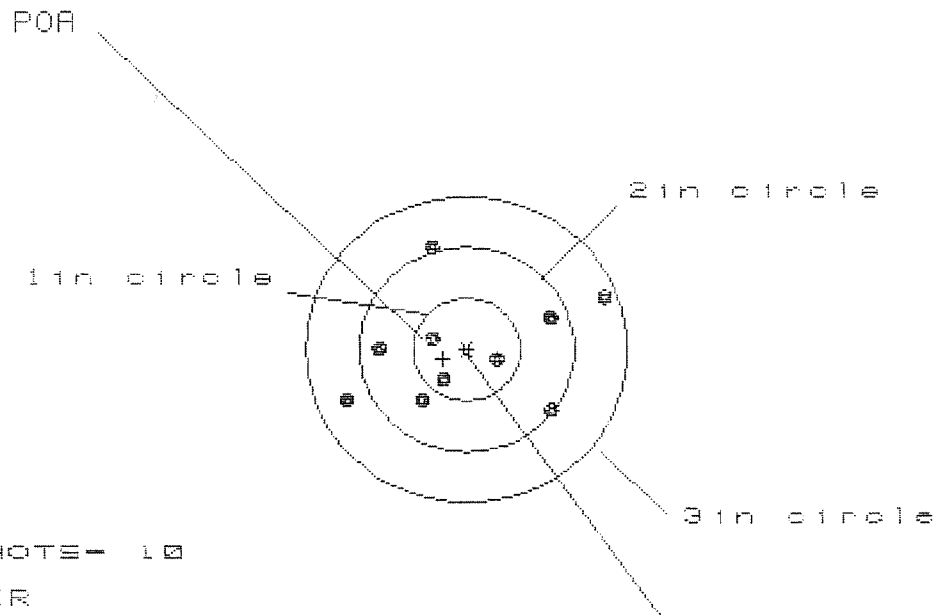
CENTROID #

PATTERN #	2		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.263	.778	.756
MINIMUM X	-.776	-.636	-.658
MAXIMUM Y	1.169	1.237	1.097
MINIMUM Y	-1.187	-1.119	-1.101
CENTROID X	.221	.081	.103
CENTROID Y	.114	.046	.186
POA TO CENTROID in.	.249	.093	.213
MIN RADIUS	.427	.433	.307
MEAN RADIUS	.939	.873	.922
MAX RADIUS	1.401	1.281	1.140
HORIZONTAL SPREAD	2.039	1.414	1.414
VERTICAL SPREAD	2.356	2.356	2.198
EXTREME SPREAD	2.469	2.412	2.201
NUMBER IN ONE INCH CIRCLE =		1	
NUMBER IN TWO INCH CIRCLE =		5	
NUMBER IN THREE INCH CIRCLE =		10	

13 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6498820.1

CENTERFIRE PATTERNS # 3



OF SHOTS - 10

IN CIR

1in = 3

2in = 7

3in = 10

HS = 2.412

VS = 1.576

GS = 2.629

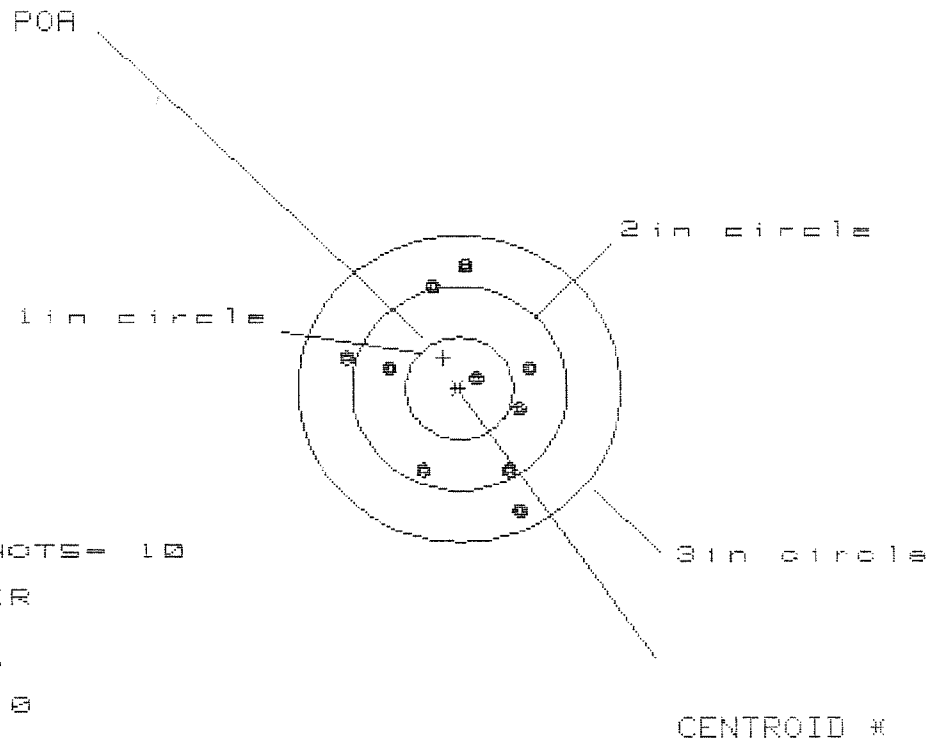
CENTROID #

PATTERN #	3	3	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.307	.918	.797
MINIMUM X	-1.111	-.966	-.819
MAXIMUM Y	.999	1.057	1.001
MINIMUM Y	-.577	-.519	-.575
CENTROID X	.219	.074	.195
CENTROID Y	.093	.035	.091
POA TO CENTROID in.	.238	.082	.215
MIN RADIUS	.275	.232	.289
MEAN RADIUS	.789	.696	.655
MAX RADIUS	1.407	1.066	1.031
HORIZONTAL SPREAD	2.418	1.884	1.616
VERTICAL SPREAD	1.576	1.576	1.576
EXTREME SPREAD	2.629	2.054	1.891
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		7	
NUMBER IN THREE INCH CIRCLE =		10	

13 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06498820.1

CENTERFIRE PATTERNS # 4



OF SHOTS = 10

IN CIR

1 in = 1

2 in = 7

3 in = 10

HS = 1.721

VS = 2.331

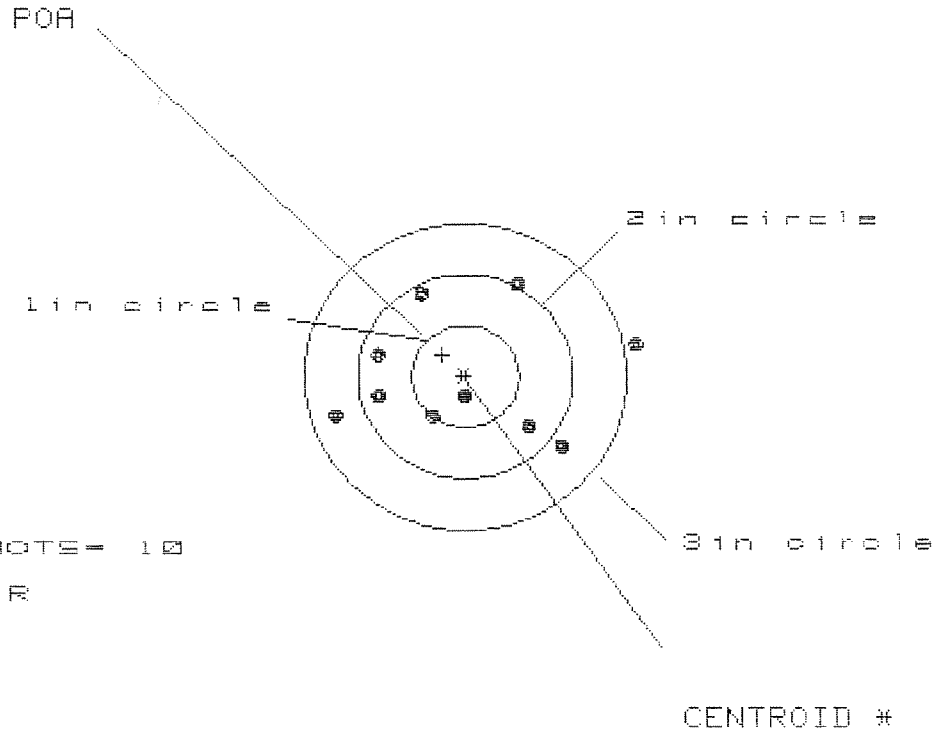
GS = 2.388

PATTERN #	4		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.646	.707	.719
MINIMUM X	-1.075	-1.014	-1.002
MAXIMUM Y	1.160	1.030	.963
MINIMUM Y	-1.171	-.916	-.787
CENTROID X	.144	.083	.072
CENTROID Y	-.302	-.172	-.301
POA TO CENTROID in.	.335	.191	.309
MIN RADIUS	.207	.238	.271
MEAN RADIUS	.837	.784	.747
MAX RADIUS	1.294	1.038	1.043
HORIZONTAL SPREAD	1.721	1.721	1.721
VERTICAL SPREAD	2.331	1.946	1.750
EXTREME SPREAD	2.388	1.986	1.874
NUMBER IN ONE INCH CIRCLE =		1	
NUMBER IN TWO INCH CIRCLE =		7	
NUMBER IN THREE INCH CIRCLE =		10	

13 Jun 1938

FILE:/PATTERNING/CENTERFIRE_PATT/C643B820.1

CENTERFIRE PATTERNS # 5



OF SHOTS = 10

IN CIR

1 in = 2

2 in = 6

3 in = 9

HS = 2.773

VS = 1.553

GS = 2.873

PATTERN #	5	5	5
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.598	1.019	.894
MINIMUM X	-1.175	-.997	-.797
MAXIMUM Y	.901	.936	.887
MINIMUM Y	-.652	-.617	-.666
CENTROID X	.211	.033	.158
CENTROID Y	-.214	-.249	-.200
POA TO CENTROID in.	.301	.252	.255
MIN RADIUS	.153	.211	.175
MEAN RADIUS	.891	.783	.751
MAX RADIUS	1.629	1.191	1.115
HORIZONTAL SPREAD	2.773	2.016	1.691
VERTICAL SPREAD	1.553	1.553	1.553
EXTREME SPREAD	2.873	2.167	1.916
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		6	
NUMBER IN THREE INCH CIRCLE =		9	