

E 670 35-43

Serial Number: E6703543

Model: M24 SWS



RE00092972

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: E6703543.___0
FILE DATE AND TIME: 03/23/2005 09:39

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.103
The Average Y Centroid of the Five Target Set:	0.012
The Average Point of Impact of the Five Target Set:	0.103
The Average Mean Radius of the Five Target Set:	0.942
The Distance from POA to Centroid Target #1:	0.158
The Distance from Centroid Target #2 to Centroid Target #1:	0.460
The Distance from Centroid Target #3 to Centroid Target #1:	0.691
The Distance from Centroid Target #4 to Centroid Target #1:	0.213
The Distance from Centroid Target #5 to Centroid Target #1:	0.257

SERIAL NUMBER: E6703543. 0

TARGET NUMBER: 1

FILE DATE: 03/23/2005

FILE TIME: 09:39

X CENTROID: -0.142

Y CENTROID: 0.069

POA TO CENTROID: 0.158

HORZ SPREAD: 2.297

VERT SPREAD: 2.208

GROUP SPREAD: 2.547

MIN RADIUS: 0.245

MAX RADIUS: 1.328

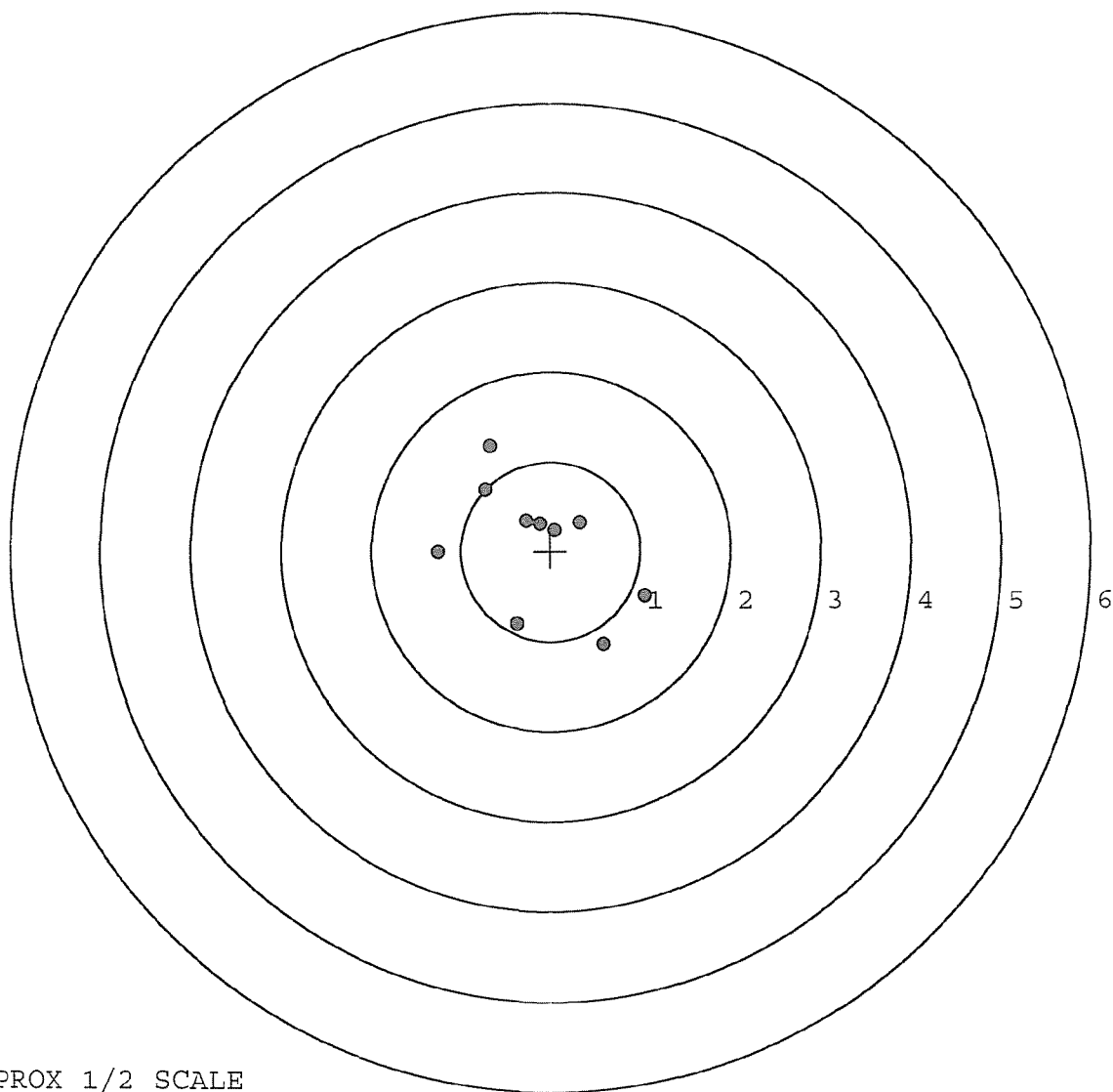
MEAN RADIUS: 0.808

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	1.049	-0.502
2:	0.590	-1.039
3:	-0.378	-0.818
4:	-1.248	-0.015
5:	-0.727	0.685
6:	-0.679	1.169
7:	-0.275	0.340
8:	-0.122	0.313
9:	0.050	0.238
10:	0.320	0.321



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: E6703543. 0

TARGET NUMBER: 2

FILE DATE: 03/23/2005

FILE TIME: 09:39

POINT#	X	Y
1:	1.646	-0.419
2:	1.127	0.307
3:	0.836	0.738
4:	-0.331	1.505
5:	-0.332	0.629
6:	-0.429	0.321
7:	-0.239	0.146
8:	0.131	-0.282
9:	0.281	-0.439
10:	0.321	-0.577

X CENTROID: 0.301

Y CENTROID: 0.193

POA TO CENTROID: 0.358

HORZ SPREAD: 2.075

VERT SPREAD: 2.082

GROUP SPREAD: 2.759

MIN RADIUS: 0.504

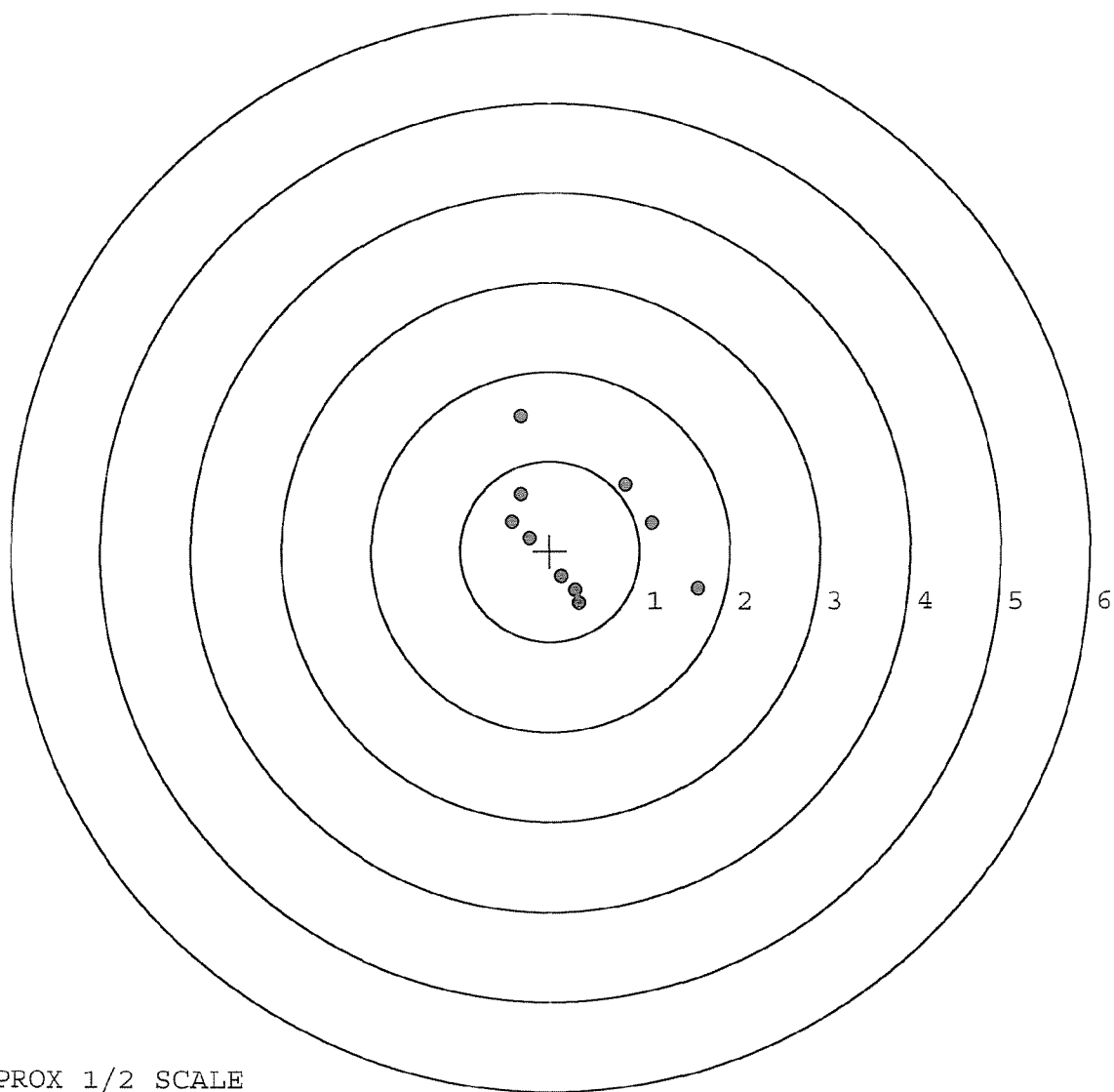
MAX RADIUS: 1.478

MEAN RADIUS: 0.849

IN 1 IN DIAMETER: 0

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: E6703543.___0

TARGET NUMBER: 3

FILE DATE: 03/23/2005

FILE TIME: 09:39

POINT#	X	Y
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1:	1.244	-1.902
----	-------	--------

2:	1.291	-1.088
----	-------	--------

3:	1.107	0.174
----	-------	-------

4:	0.226	-0.868
----	-------	--------

5:	0.085	-0.929
----	-------	--------

6:	-0.168	-0.279
----	--------	--------

7:	0.075	0.160
----	-------	-------

8:	0.214	0.306
----	-------	-------

9:	0.282	0.480
----	-------	-------

10:	-0.399	0.295
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X CENTROID: 0.396

Y CENTROID: -0.365

POA TO CENTROID: 0.538

HORZ SPREAD: 1.690

VERT SPREAD: 2.382

GROUP SPREAD: 2.743

MIN RADIUS: 0.531

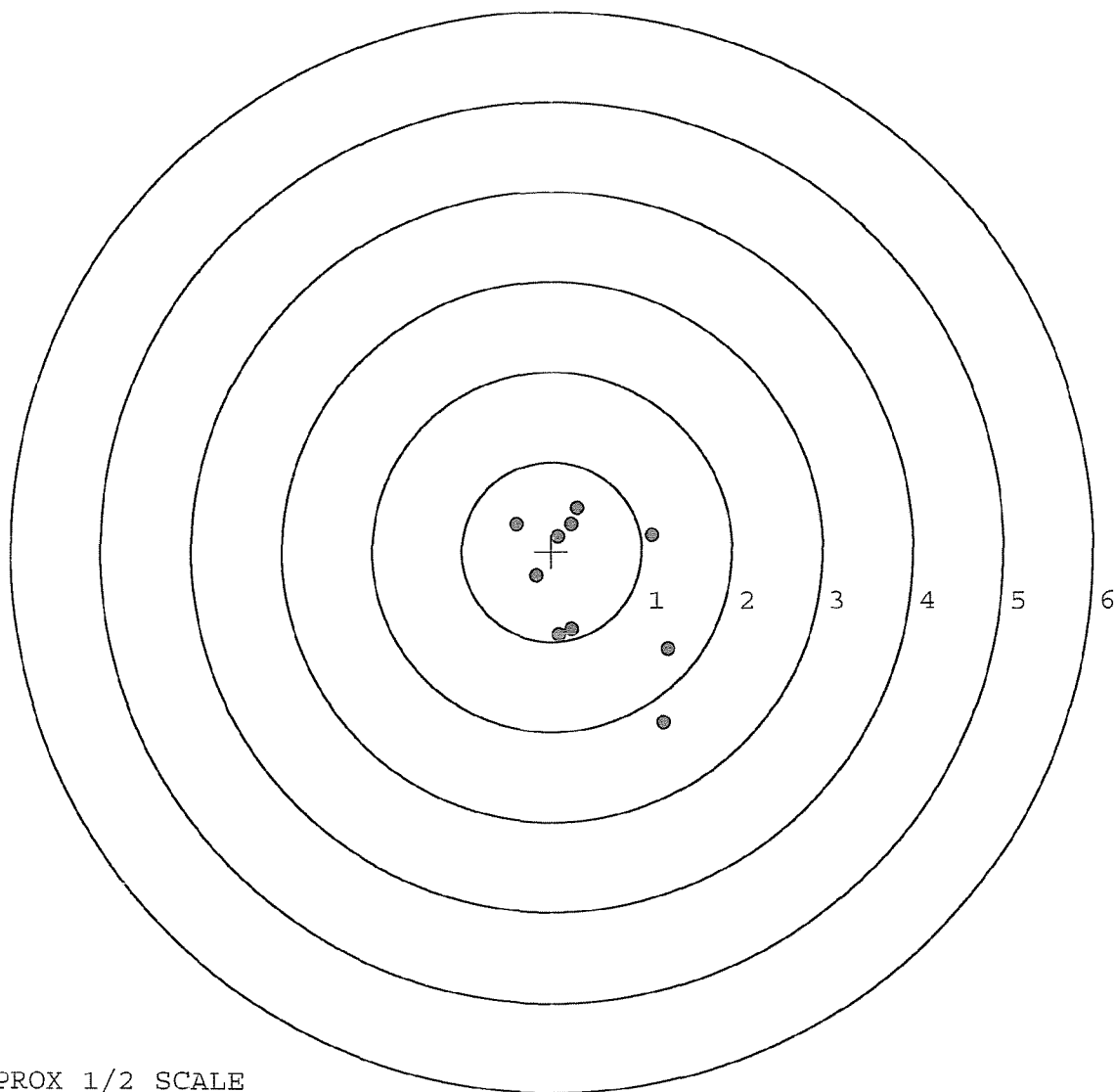
MAX RADIUS: 1.755

MEAN RADIUS: 0.874

IN 1 IN DIAMETER: 0

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: E6703543. 0

TARGET NUMBER: 4

FILE DATE: 03/23/2005

FILE TIME: 09:39

POINT#	X	Y
1:	0.713	-0.591
2:	-0.091	-0.919
3:	-0.004	-0.404
4:	0.108	-0.108
5:	0.370	0.271
6:	-0.406	-0.073
7:	-0.794	0.586
8:	0.054	1.269
9:	-0.247	1.368
10:	-0.535	1.339

X CENTROID: -0.083

Y CENTROID: 0.274

POA TO CENTROID: 0.286

HORZ SPREAD: 1.507

VERT SPREAD: 2.287

GROUP SPREAD: 2.301

MIN RADIUS: 0.427

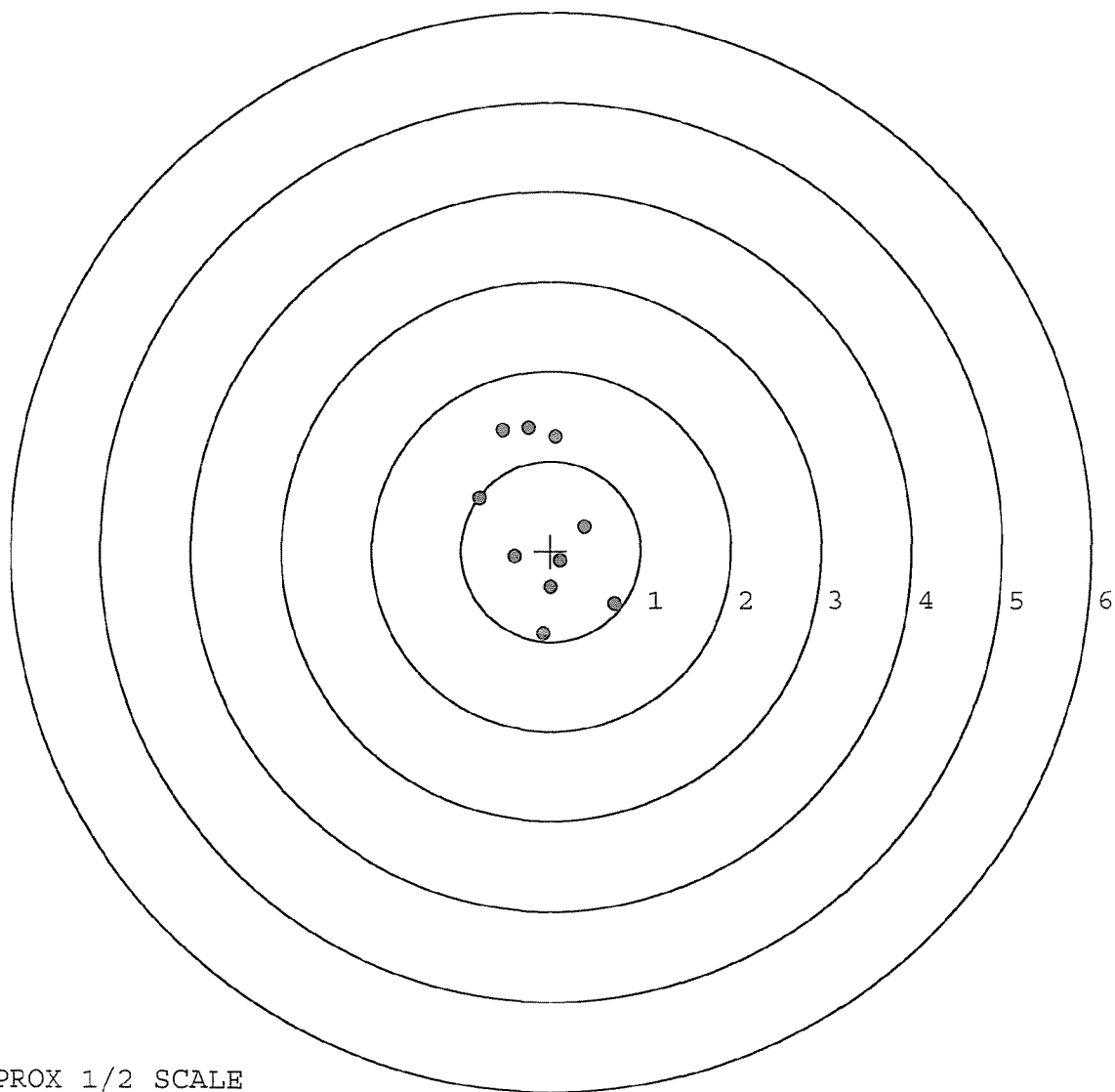
MAX RADIUS: 1.193

MEAN RADIUS: 0.845

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 5

in 3 IN DIAMETER: 10

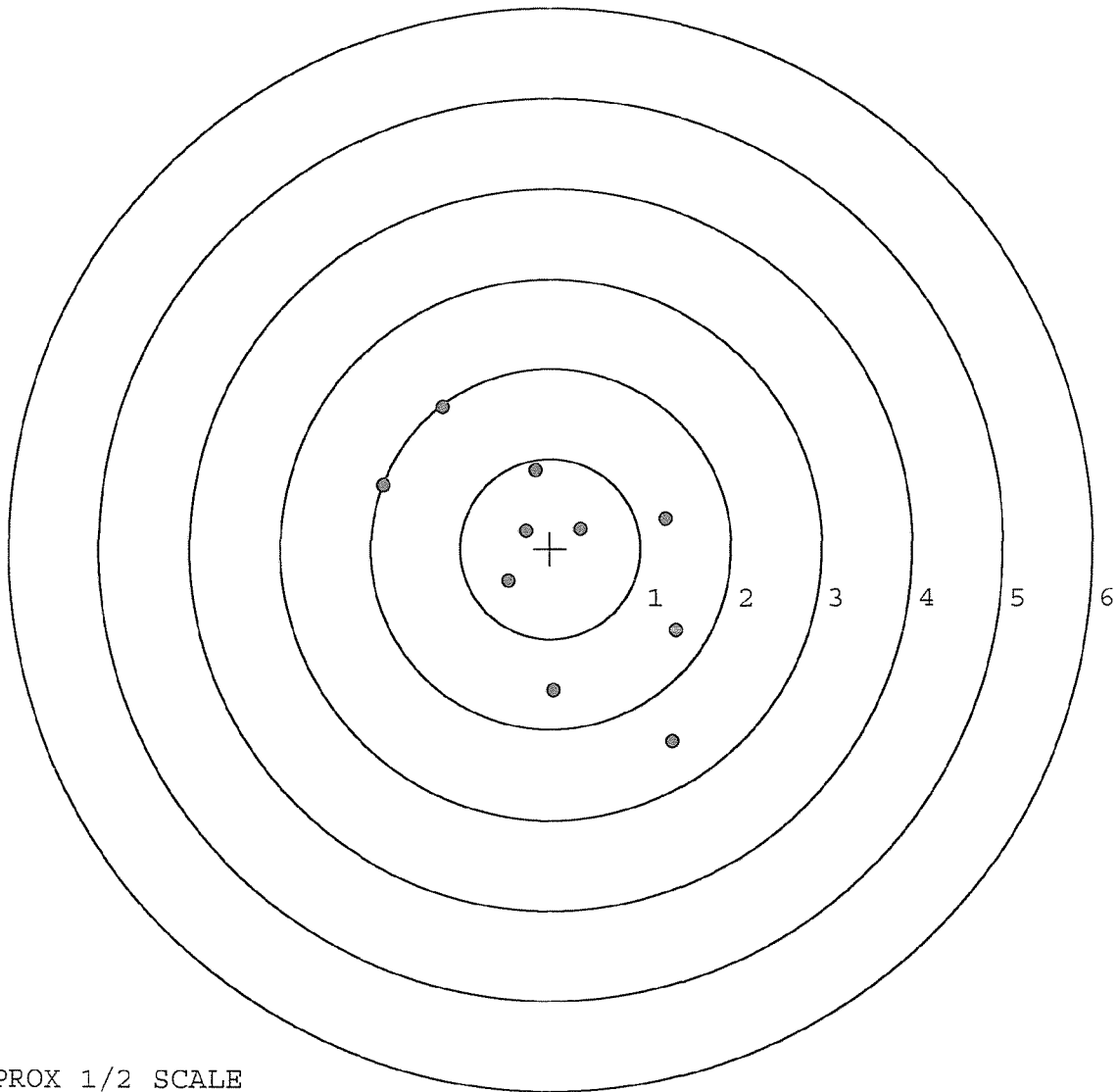


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: E6703543. 0
TARGET NUMBER: 5
FILE DATE: 03/23/2005
FILE TIME: 09:39

POINT#	X	Y
1:	1.390	-0.919
2:	1.347	-2.142
3:	0.035	-1.577
4:	1.271	0.327
5:	0.332	0.218
6:	-0.274	0.199
7:	-0.462	-0.363
8:	-0.171	0.867
9:	-1.195	1.570
10:	-1.860	0.706

X CENTROID: 0.041
Y CENTROID: -0.111
POA TO CENTROID: 0.119
HORZ SPREAD: 3.250
VERT SPREAD: 3.712
GROUP SPREAD: 4.499
MIN RADIUS: 0.439
MAX RADIUS: 2.414
MEAN RADIUS: 1.336
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 3
in 3 IN DIAMETER: 6



TARGET APPROX 1/2 SCALE

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

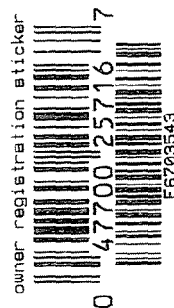
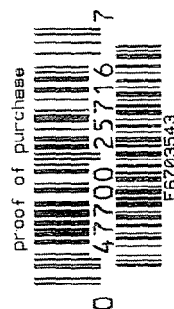
R & E NUMBER	92972		
SERIAL NUMBER	E6703543		
LOG-IN DATE	2-11-05		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	2-18-05	RTZ
560 A	RE-BARREL	2-22-05	RTZ
B	DRILL AND TAP	2-28-05	TRW
575	ASSEMBLE	2-23-05	RTZ
600	PROOF	2-24-05	AC
605	CHECK HEADSPACE	2-24-05	AC
610	DIS-ASSEMBLE GUN	2-24-05	RTZ
612	MAGNAFLUX	OPERATOR	
615	ROLLMARK CALIBER	3-1-05	CW
618	ROTO-BLAST	3-3-05	CB
620	APPLY COATINGS	3/16/05	HP
625 A	FINAL ASSEMBLY	3-22-05	RTZ
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE	3-28-05	AC
D	SAFETY "OFF" FORCE	3-28-05	AC
E	FIRING PIN INDENT	3-28-05	AC
640	TARGET	3-23-05	TRW
655	FINAL INSPECT	3-28-05	AC
660	PACK	4-25-05	RA
		SHIP DATE	
		QAR INSPECTION DATE	

MODEL 700TH M24
BOLT ACTION CENTERFIRE RIFLE
24" BARREL 7.62 NATO

DOCUMENT ENVELOPE ASSEMBLY:

- INSTRUCTION BOOK
- PRODUCT OWNER'S CARD
- SAFETY BOOKLET

46 FORM 1444

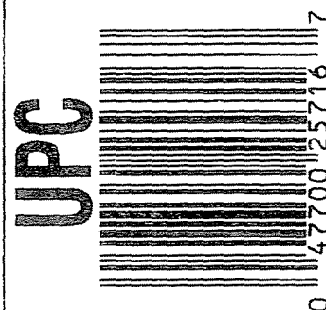


ORDER NO. 25716

BARREL LENGTH 24"

CAPACITY 6

E6703543



AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

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

SERIAL NO. EG703543

DATE 4/26/01

TESTER DA

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#	COMMENTS
PULL #1	2.46	2.36	2.47	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.60	2.51	2.53	
PULL #3	2.72	2.36	2.52	
PULL #4	2.83	2.34	2.29	
PULL #5	2.76	2.43	2.56	
TOTAL	1337	1200	1231	
AVG.	2.67	2.40	2.46	

	3.00# INITIAL	3.00# AFTER 20 CYCLES	COMMENTS
PULL #1	3.29	3.20	
PULL #2	3.14	3.40	
PULL #3	3.20	3.16	
PULL #4	3.32	3.21	
PULL #5	3.34	3.21	
TOTAL	1629	1618	
AVG.	3.25	3.23	

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.10	4.11		4.06
PULL #2	4.11	4.11		4.13
PULL #3	4.18	4.20		3.99
PULL #4	4.21	4.10		4.17
PULL #5	4.03	4.09		4.19
TOTAL	2063	2061		2054
AVG.	4.12	4.12		4.10

Remington Test Lab, Ilion, N.Y.

Centroidal distance calculations for Rifle # E6703543
10 Aug 2001

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .028
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.1504
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .152984

THE AMR FOR THIS RIFLE IS: 1.268

CENTROIDAL DISTANCES

0 TO	1	.142201
1 TO	2	.367642
1 TO	3	.139004
1 TO	4	.555006
1 TO	5	.637986

³
1 + 2 <----POA

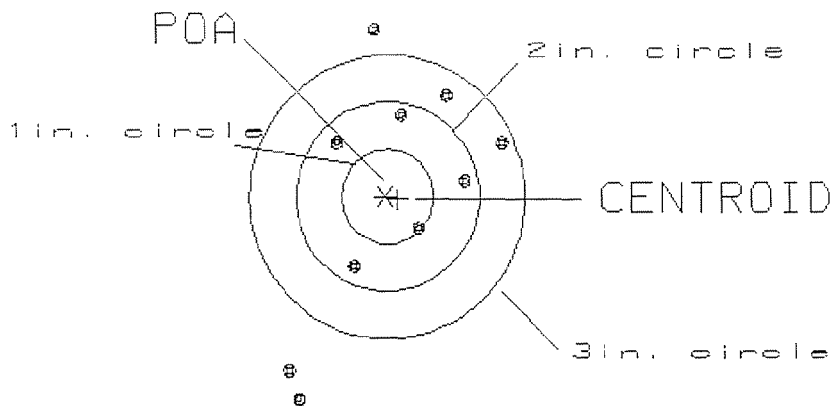
4 5

PATTERN #: [1]
 POA TO CENTROID: .142
 MIN RADIUS : .456
 MEAN RADIUS : 1.278
 MAX RADIUS : 2.341
 CENTROID X : -.139
 CENTROID Y : .030

10 Aug 2001

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/ E6703543 .1

CENTERFIRE PATTERN # 1



OF SHOTS= 10

IN CIRCLE

HS= 2.31
 VS= 3.84
 GS= 3.94

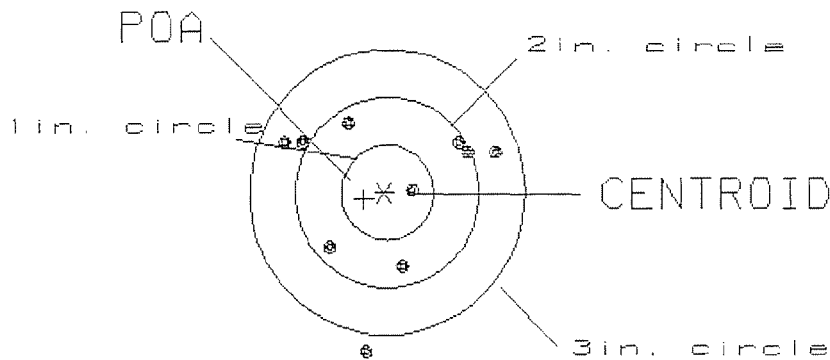
1
 5
 7

PATTERN #: ☐ 2 ☐
 POA TO CENTROID: .238
 MIN RADIUS : .231
 MEAN RADIUS : .966
 MAX RADIUS : 1.661
 CENTROID X : .226
 CENTROID Y : .074

10 Aug 2001

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/ E6703543 .1

CENTERFIRE PATTERN # 2



OF SHOTS= 10

IN CIRCLE

HS= 2.38
 VS= 2.33
 GS= 2.48

1
 6
 9

PATTERN #: 3
 POA TO CENTROID: .218
 MIN RADIUS : .447
 MEAN RADIUS : 1.191
 MAX RADIUS : 2.637
 CENTROID X : -.138
 CENTROID Y : .169

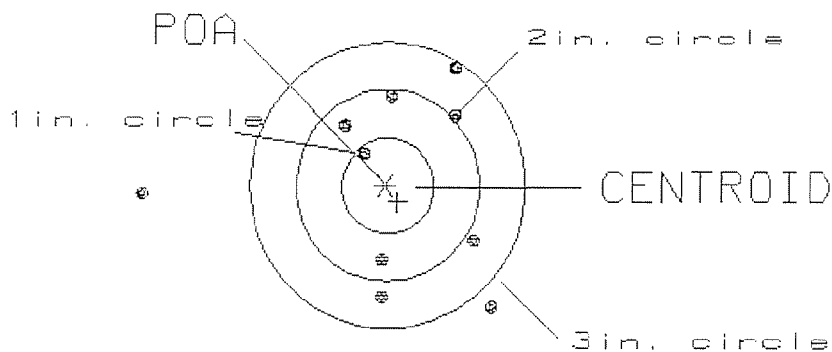
10 Aug 2001

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/

E6703543

.1

CENTERFIRE PATTERN # 3



OF SHOTS= 10

IN CIRCLE

HS= 3.74

1

VS= 2.55

4

GS= 3.95

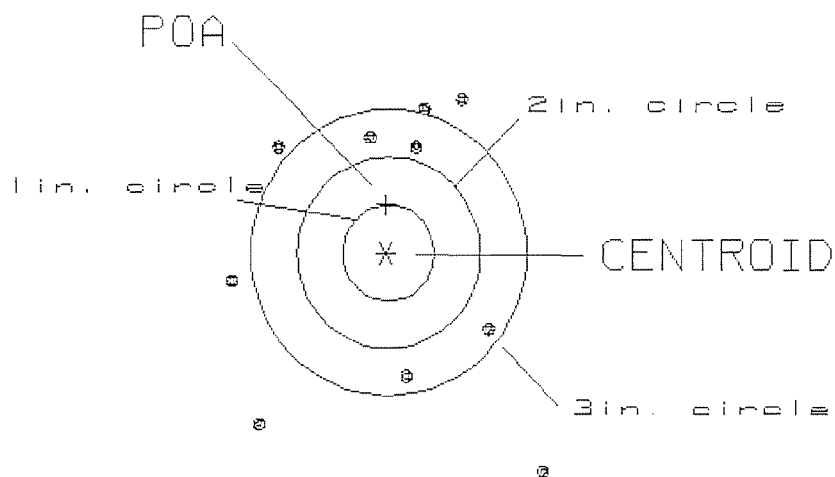
9

PATTERN #: L 4 C
 POA TO CENTROID: .506
 MIN RADIUS : 1.125
 MEAN RADIUS : 1.690
 MAX RADIUS : 2.862
 CENTROID X : .005
 CENTROID Y : -.506

18 Aug 2001

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/ E6703543 .1

CENTERFIRE PATTERN # 4



OF SHOTS= 10

IN CIRCLE

HS= 3.44

0

VS= 3.92

0

GS= 4.48

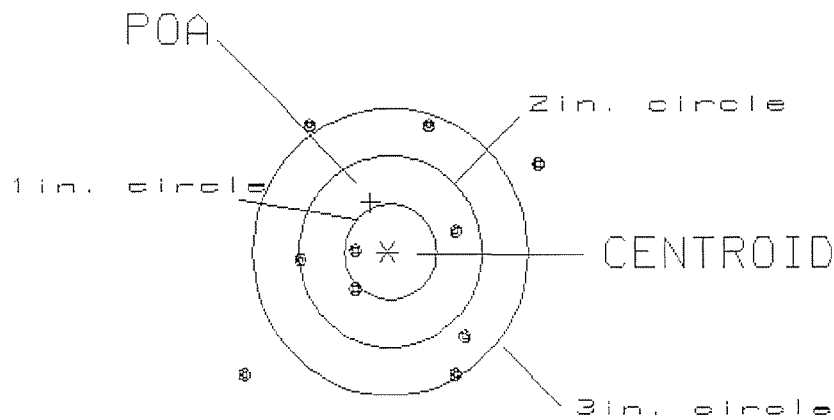
4

PATTERN #: C 5 C
 POA TO CENTROID: .551
 MIN RADIUS : .399
 MEAN RADIUS : 1.215
 MAX RADIUS : 2.031
 CENTROID X : .186
 CENTROID Y : -.519

10 Aug 2001

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/ E6703543 .1

CENTERFIRE PATTERN # 5



OF SHOTS= 10

IN CIRCLE

HS= 3.21

1

VS= 2.63

3

GS= 3.91

7

ISRAELI GUNS

CONTRACT # DAAE20-97-C-0182

GUN SERIAL # E 670 3543

OP. #	OPERATION NAME	READINGS	DATE	INITIA
575 & 580	ASSEMBLE ACTION AND STOCK		5-7-01	CK
600	PROOF		5/7/01	C.
607	CHECK HEADSPACE		5/7/01	C.
610	DIS-ASSEMBLE GUN		5/7/01	CK
612	MAGNAFLUX BARREL ACTION		5/10/01	AC
	MAGNAFLUX BOLT		5/10/01	AC
615	ROLLMARK CALIBER		5/11/01	AK
617	DRILL AND TAP SIGHT HOLES		5/11/01	ST
618	POLISH BARREL		5/14/01	GD
620	APPLY COATINGS (BARREL ACTION)		5/15/01	TA
	(BOLT)		5/15/01	TA
625	FINAL ASSEMBLY A) CLEAN INSIDE OF BOLT ASSEMBLY		8/4/01	AK
	B) INSPECT REAR FIRING PIN HOLE FOR CHAMFER IN BOLT HEAD		8/6/01	AK
	C) INSPECT EJECTOR HOLE FOR CHAMFER		8/6/01	AK
	D) OIL FIRING PIN ASSEMBLY		8/6/01	AK
	E) ADJUST TRIGGER PULL TO MIN. SETTING AND STAKE		8/6/01	AK

P. #	OPERATION NAME	READINGS	DATE	INITIAL
525	F) SAFETY ON FORCE	<u>6.0</u> <u>6.5</u> <u>6.0</u>	8-21-01	DA
CONT.	G) SAFETY OFF FORCE	<u>3.0</u> <u>3.5</u> <u>4.0</u>	8-21-01	DA
	H) TRIGGER PULL TEST AND RETAINABILITY		8-23-01	PH
	I) FIRING PIN INDENT	<u>.022</u> <u>.023</u> <u>.022</u>	8-21-01	DA
	J) ASSEMBLE STOCK		8-7-01	CK
	K) ASSEMBLE SWIVEL STUDS		8-23-01	PH
	L) ATTACH FRONT AND REAR SIGHT ASSY'S		8/16/01	PH
	M) IRON SIGHT ALIGNMENT		8/16/01	PH
	N) DETACH FRONT AND REAR SIGHTS AND PLACE IN NUMBERED CONTAINER		8/16/01	PH
640	GALLERY TEST AND TARGET		8/9	AC
	A) MALFUNCTIONS		8/9	AC
	B) PIERCED PRIMERS		8/9	AC
645	INSPECT FOR LIVE AMMO		8/9	AC
655	FINAL INSPECTION A) HEADSPACE		8-23-01	PH
	B) TRIGGER PULL	<u>2.48</u> <u>2.58</u> <u>2.53</u> <u>2.52</u> <u>2.56</u>	8-21-01	DA
	C) FUNCTION		8-23-01	PH
660	PACK		8-24-01	DA