

C6523369

MODEL 700™ M24

Model SWS™

Action

Barrel Length

Capacity

Order No. 5716

*Includes 1 in chamber.



Remington®



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

MODEL 700™ M24

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

Q1

SERIAL NO.

C6520369

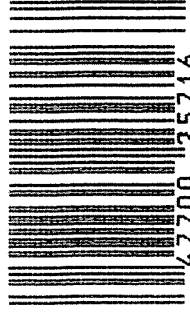
ORDER NO.

5716



5716 C6520369

UPC



0 47700 25716 7

Arms Services Repair & Estimate System

File Add Repair Estimate Repair Expedite Repair Inquiry Repair Tools CSR Tools Reports Table Maintenance System Maintenance Help

Repair Inquiry

Repair Number: **RE00143911**

Serial: C6523369 Model M24 SWS Center Fire
Caliber: 7.62 NATO

Repairman:

Verify Repair

Status:

Closed 4/1/2008 1:32:01 PM

Address Information

Customer:

☒ Received From

Return To:

☐ Received From

Name: **DEPT OF THE ARMY**

DEPT OF THE ARMY

Address 1: **1401 ARTILLERY CIRCLE BLDG 978**

1401 ARTILLERY CIRCLE BLDG 978

Address 2: PO Box:

PO Box:

City: **FT. LEONARD WOOD**

FT. LEONARD WOOD

State: **MO**

Zip Code: **65473**

Country: **US**

State: **MO**

Zip Code: **65473**

Country: **US**

FFL:

Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

Contact Information

Received Condition

Accessories Received

Phone: **NN**

Fair

Fax:

Condition

Email:

Notes:

Comments:

CSR

Notes:

Code	Desc	Qty
A007	With Stud	3
A010	Hard Case	1
A017	Scope Base	1
A045	Bi Pod	1
A057	Fit and Rear Sgt Base	1

Repair Search

Refresh

Close

nagletj

4/2/2008

9:33 AM

NUM



Serial Number: **C6523369**

Model: **M24 SWS**



RE00143911

Remington®

Factory Repair Instructions

(NOTE: Please print and complete this form, and then include it with your firearm.)

Model Number: <i>M24A 1</i>		Serial Number: <i>C6523369</i>	
Are you the original owner?: ☒ YES ☐ NO <i>Contract # DAA520-02-C-0149</i>			
Name: <i>US Army MBS - STTD</i>		Date of Purchase: <i>UNKNOWN</i>	
Address (no PO Boxes): <i>1401 Artillery Circle</i>			
<i>BLDG 978 ATTN: Ramon Velazquez</i>			
City: <i>FT. Leonard Wood</i>		State: <i>MO</i>	Zip: <i>65473</i>
Phone (Daytime): <i>(573) 596-0131 x6-3420</i>		Fax: <i>(573) 596-0747</i>	
E-mail Address:			
☐ I would like to receive future e-mail updates from Remington.			
Please describe your problem and date of occurrence:			
<i>Stock cracked behind trigger guard</i>			
Ammunition Information:			
Manufacturer: <i>Military (Lake City)</i>		Type: <i>M118 Match Ball</i>	
Other (i.e. bullet weight/type, shot size, powder):			
Handload Information:			
Powder Used:		Powder Weight:	
Case/Hull Used:		Primer Used:	
Bullet Type/Shot Size:		Reloader Used:	
Firearms Care (Cleaning and Lubrication):			
Brand of cleaning solution used:			
How often do you clean the bore? (Months or Number of rounds)			
How often do you clean the action? (Months or Number of rounds)			
How often do you clean the trigger assembly? (Months or Number of rounds)			
Brand of lubricant used:			
How often do you lubricate the bore? (Months or Number of rounds)			
How often do you lubricate the action? (Months or Number of rounds)			
How often do you lubricate the trigger assembly? (Months or Number of rounds)			
Have you reviewed the cleaning and maintenance recommendations on our web site or in our owners manual? ☐ YES ☐ NO			

Velazquez, Ramon Mr CIV USA TRADOC

From: Thomas, Paul Mr CIV USA IMCOM
Sent: Monday, March 24, 2008 2:19 PM
To: Velazquez, Ramon Mr CIV USA TRADOC
Subject: FW: Request Repair of M24 sniper Rifle (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Shipment approved. See below. Paul

-----Original Message-----

From: West, Kimberly A CIV USA AMC
Sent: Monday, March 24, 2008 2:02 PM
To: Thomas, Paul Mr CIV USA IMCOM; ROCK-TACOM-SNIPER-REPAIR
Cc: Velazquez, Ramon Mr CIV USA TRADOC; Wells, Richard L Mr CIV USA AMC
Subject: RE: Request Repair of M24 sniper Rifle (UNCLASSIFIED)

Thanks, Paul-
Please go ahead and ship your M24s to Remington.
Kim

Kimberly West
TACOM-RI
Rifle & Carbine Team
(309) 782-0926
DSN: 793-0926
kimberly.a.west1@us.army.mil

-----Original Message-----

From: Thomas, Paul Mr CIV USA IMCOM
Sent: Monday, March 24, 2008 12:55 PM
To: ROCK-TACOM-SNIPER-REPAIR
Cc: West, Kimberly A CIV USA AMC; westk@ria.army.mil; Velazquez, Ramon Mr CIV USA TRADOC
Subject: Request Repair of M24 sniper Rifle (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Have three M24's in need of repairs. Request authorization to ship to remington Arms Co Inc., ATTN: Service Dept., 14 Hoefler Avenue, Ilion, NY 13357-1816. Serial numbers are C6523369, C6611673, C6523393.

FTE document number is W80H2G80840003.
AOE document number is W80H2G80840004

POC at unit is Mr. Ramon Velaaque, Comm: 573-596-0131 ext 63420.
POC at property book is the undersigned.

Paul Thomas
Consolidated Property Book Office
ATTN: IMNW-LNW-PB
Director of Logistics, Bldg. 2325
Fort Leonard Wood, MO 65473-8873
Phone: Comm 573-596-0131, ext 6-7678
Fax: 573-596-0867
DSN 581-7678
Email: paul.t.thomas@conus.army.mil

Classification: UNCLASSIFIED
Caveats: NONE
Classification: UNCLASSIFIED
Caveats: NONE

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6523369.___0
FILE DATE AND TIME: 04/16/2008 13:55

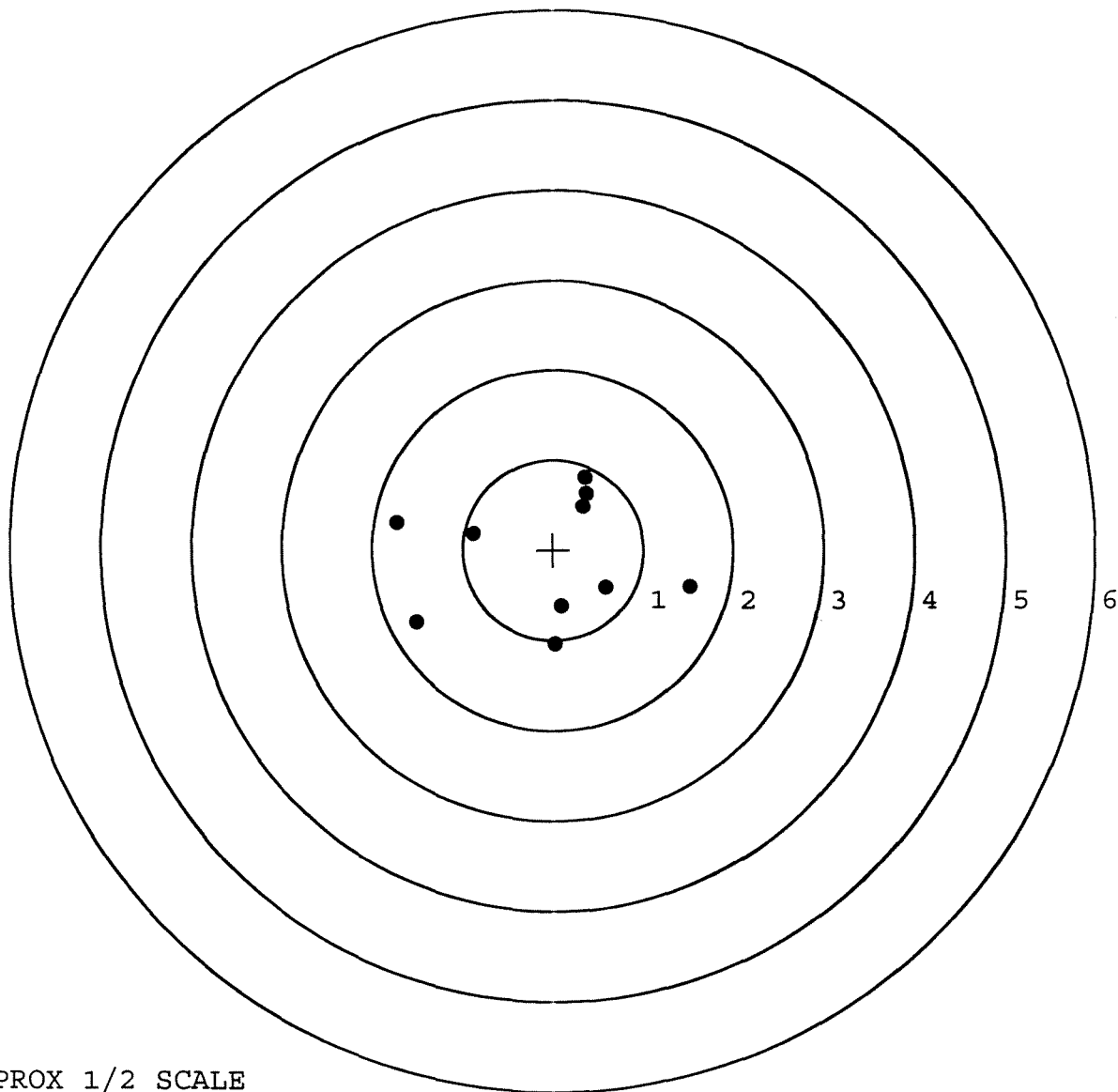
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.062
The Average Y Centroid of the Five Target Set:	-0.010
The Average Point of Impact of the Five Target Set:	0.063
The Average Mean Radius of the Five Target Set:	0.784
The Distance from POA to Centroid Target #1:	0.127
The Distance from Centroid Target #2 to Centroid Target #1:	0.060
The Distance from Centroid Target #3 to Centroid Target #1:	0.127
The Distance from Centroid Target #4 to Centroid Target #1:	0.179
The Distance from Centroid Target #5 to Centroid Target #1:	0.160

SERIAL NUMBER: C6523369. __0
TARGET NUMBER: 1
FILE DATE: 04/16/2008
FILE TIME: 13:55

X CENTROID: -0.086
Y CENTROID: -0.093
POA TO CENTROID: 0.127
HORZ SPREAD: 3.249
VERT SPREAD: 1.849
GROUP SPREAD: 3.325
MIN RADIUS: 0.565
MAX RADIUS: 1.693
MEAN RADIUS: 1.059
IN 1 IN DIAMETER: 0
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 7

POINT#	X	Y
1:	1.516	-0.409
2:	0.583	-0.419
3:	0.090	-0.630
4:	0.025	-1.047
5:	0.333	0.477
6:	0.367	0.623
7:	0.357	0.802
8:	-0.884	0.180
9:	-1.733	0.299
10:	-1.511	-0.807

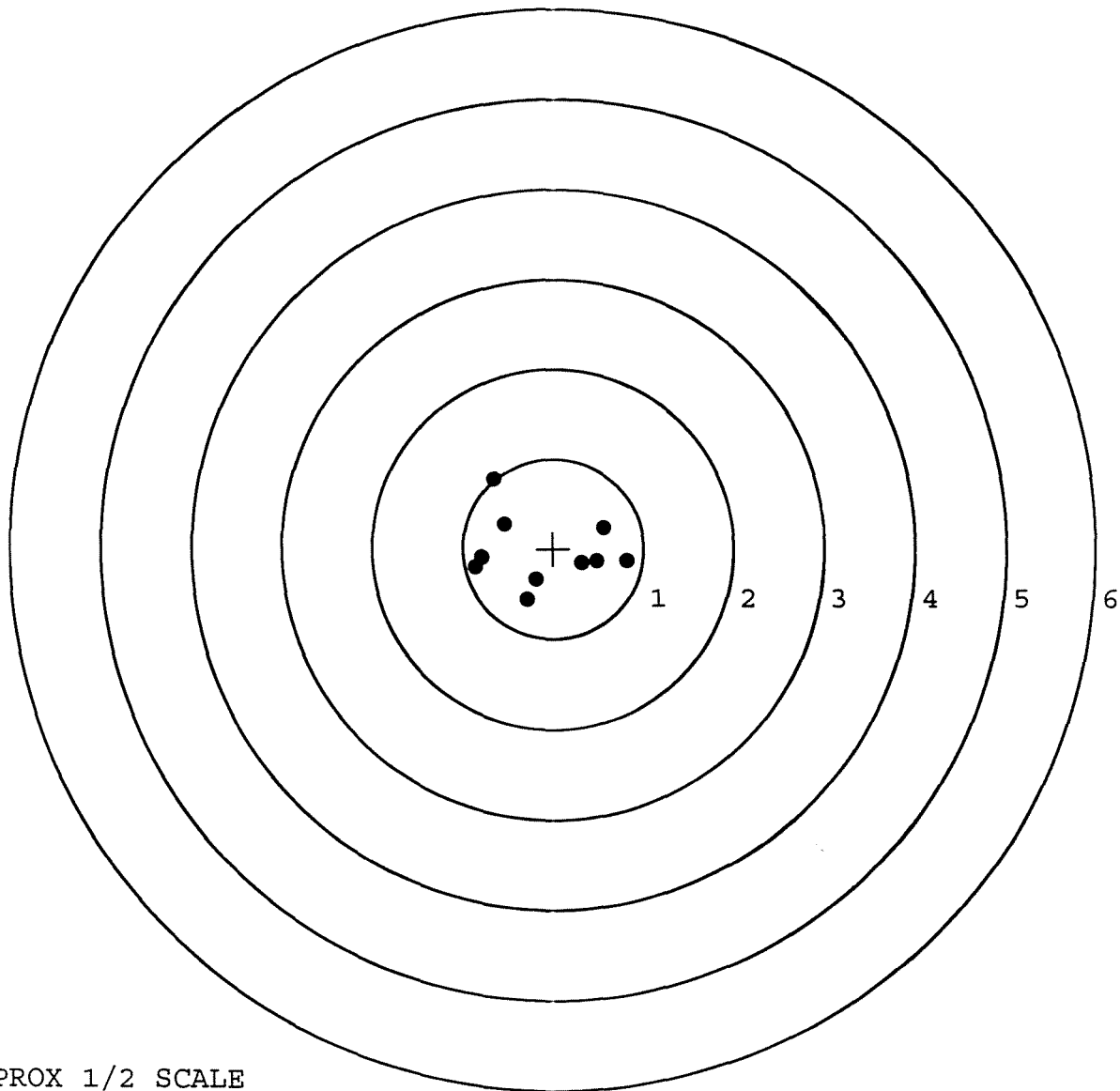


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523369. __0
TARGET NUMBER: 2
FILE DATE: 04/16/2008
FILE TIME: 13:55

X CENTROID: -0.116
Y CENTROID: -0.041
POA TO CENTROID: 0.124
HORZ SPREAD: 1.681
VERT SPREAD: 1.356
GROUP SPREAD: 1.735
MIN RADIUS: 0.319
MAX RADIUS: 0.982
MEAN RADIUS: 0.656
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.818	-0.137
2:	0.485	-0.141
3:	0.557	0.229
4:	-0.200	-0.349
5:	-0.287	-0.576
6:	-0.863	-0.218
7:	-0.790	-0.104
8:	-0.545	0.270
9:	-0.655	0.780
10:	0.315	-0.166

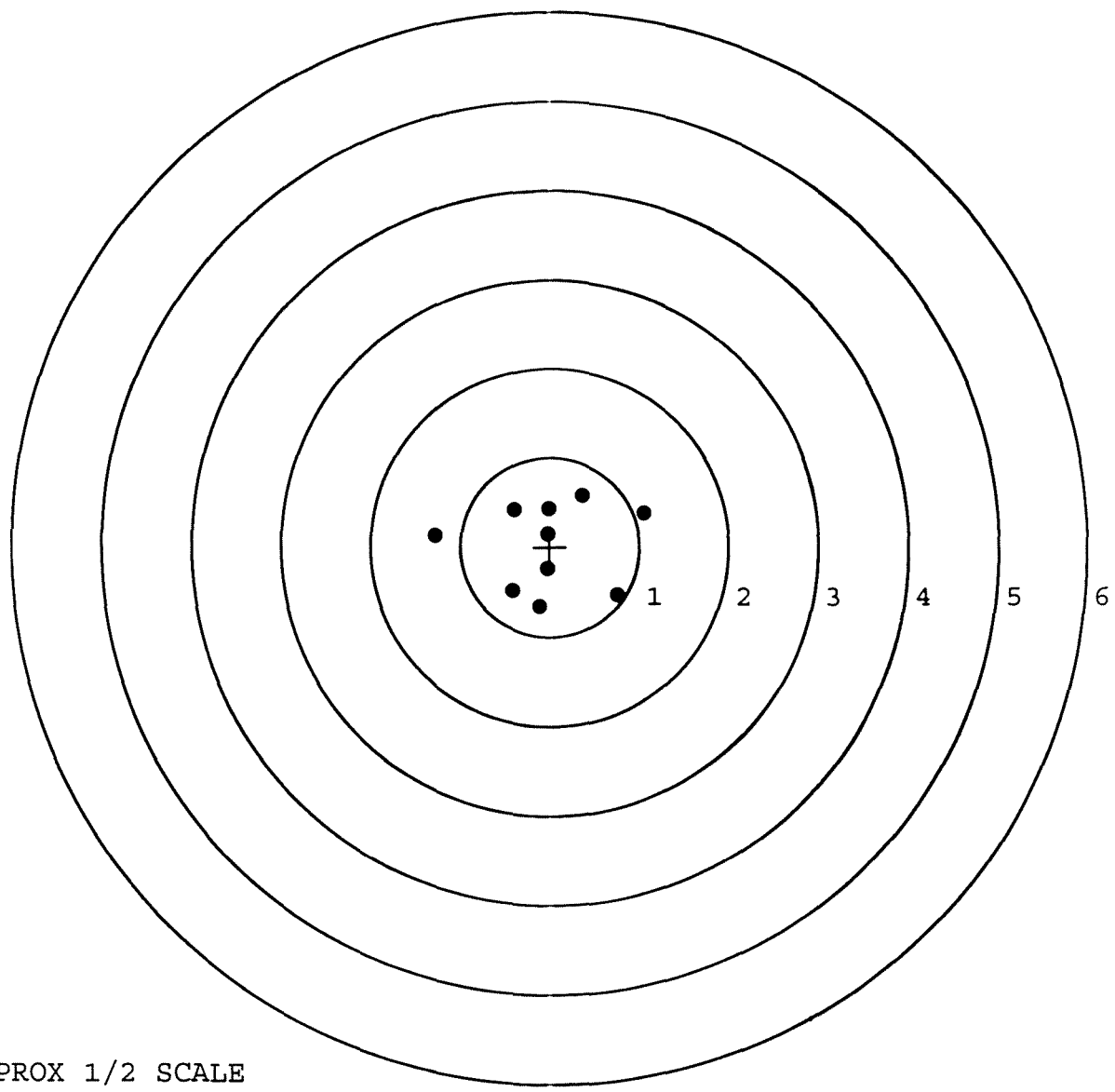


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523369. __0
TARGET NUMBER: 3
FILE DATE: 04/16/2008
FILE TIME: 13:55

X CENTROID: -0.013
Y CENTROID: 0.011
POA TO CENTROID: 0.017
HORZ SPREAD: 2.328
VERT SPREAD: 1.241
GROUP SPREAD: 2.341
MIN RADIUS: 0.132
MAX RADIUS: 1.267
MEAN RADIUS: 0.671
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.749	-0.536
2:	1.053	0.375
3:	0.364	0.572
4:	-0.015	0.423
5:	-0.025	0.142
6:	-0.405	0.418
7:	-0.030	-0.252
8:	-0.120	-0.669
9:	-0.424	-0.488
10:	-1.275	0.125

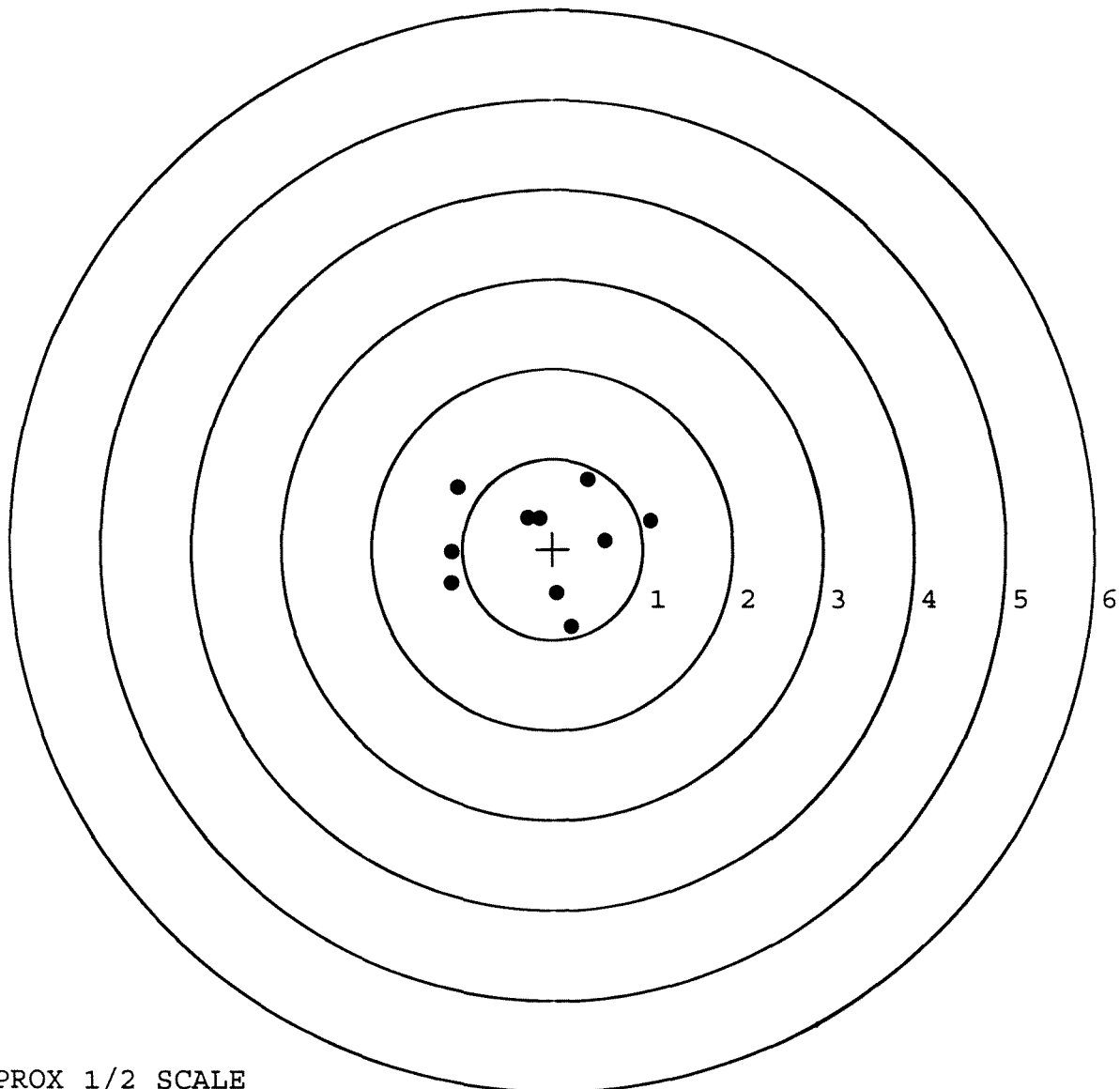


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523369. __0
TARGET NUMBER: 4
FILE DATE: 04/16/2008
FILE TIME: 13:55

X CENTROID: -0.142
Y CENTROID: 0.077
POA TO CENTROID: 0.161
HORZ SPREAD: 2.206
VERT SPREAD: 1.630
GROUP SPREAD: 2.313
MIN RADIUS: 0.259
MAX RADIUS: 1.245
MEAN RADIUS: 0.815
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	1.081	0.312
2:	0.583	0.095
3:	0.391	0.773
4:	-0.152	0.336
5:	-0.281	0.344
6:	0.046	-0.487
7:	0.204	-0.857
8:	-1.125	-0.384
9:	-1.119	-0.037
10:	-1.047	0.675

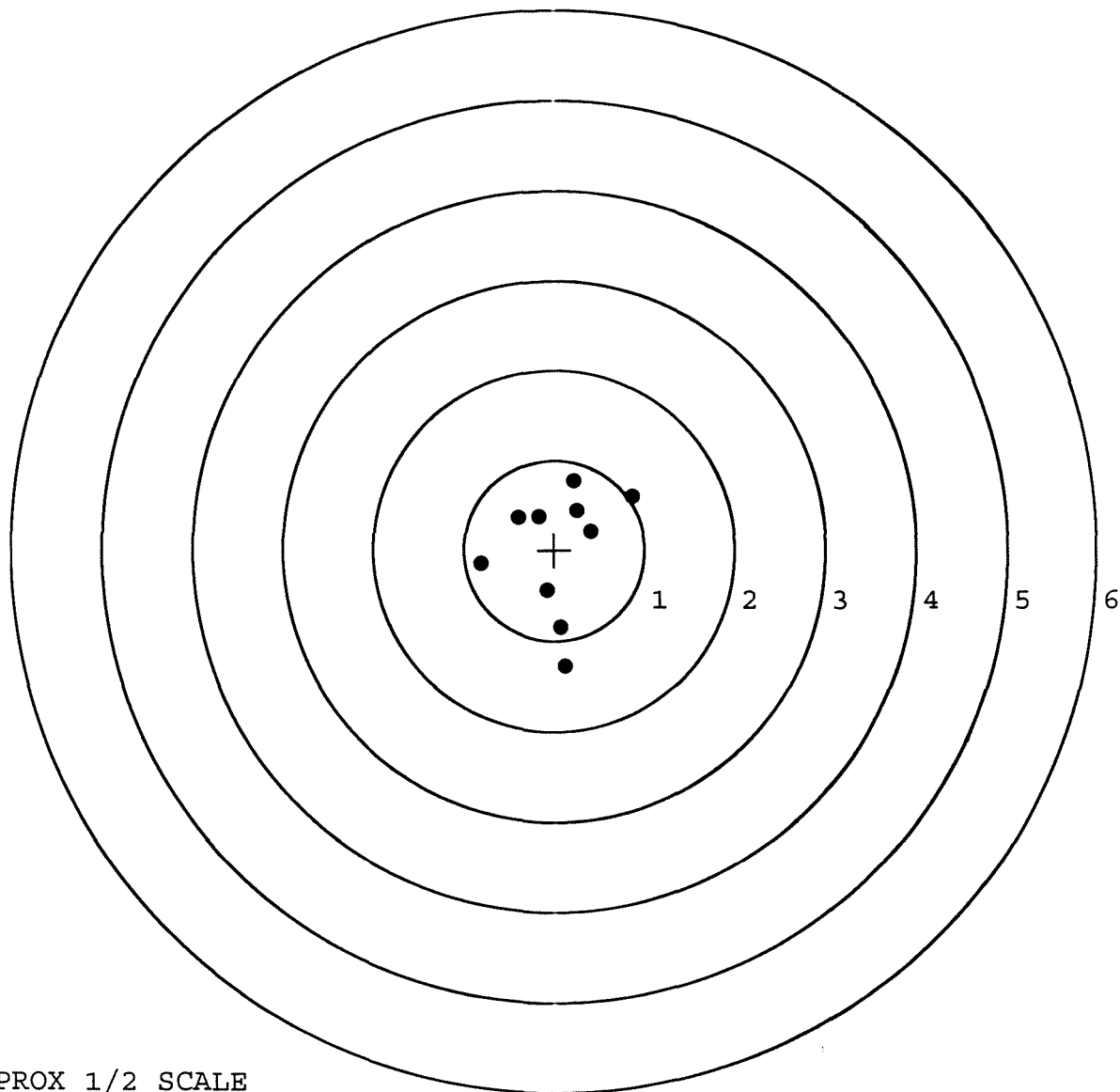


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523369. __0
TARGET NUMBER: 5
FILE DATE: 04/16/2008
FILE TIME: 13:55

X CENTROID: 0.046
Y CENTROID: -0.001
POA TO CENTROID: 0.046
HORZ SPREAD: 1.674
VERT SPREAD: 2.051
GROUP SPREAD: 2.054
MIN RADIUS: 0.413
MAX RADIUS: 1.285
MEAN RADIUS: 0.719
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.115	-1.284
2:	0.071	-0.854
3:	-0.082	-0.451
4:	-0.811	-0.159
5:	0.406	0.201
6:	0.863	0.599
7:	0.219	0.767
8:	0.253	0.435
9:	-0.404	0.360
10:	-0.174	0.373

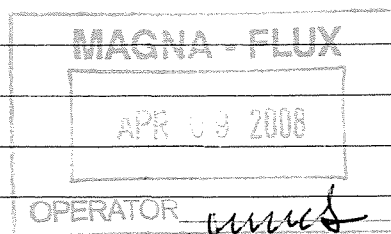


TARGET APPROX 1/2 SCALE

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

FAE NUMBER 00143911
SERIAL NUMBER C6523369
LOG-IN DATE 4-1-08

OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	4-3-08	SP.D.
505	RE-BARREL	4-3-08	SP.D.
560	ASSEMBLE	4-3-08	RTZ
600	PROOF	4-7-08	TRW
605	CHECK HEADSPACE	4-7-08	TRW
610	DIS-ASSEMBLE GUN	4-8-08	SP.D.
612	MAGNAFLUX	4/9/08	unus
510	DRILL AND TAP	4/9/08	Fm
615	ROLLMARK CALIBER	4-9-08	CW
618	ROTO-BLAST	4-9-08	DG
620	APPLY COATINGS	4-11-08	Cos
625	FINAL ASSEMBLY	4-14-08	RTZ
640	FUNCTION TEST AND	4-16-08	TRW
650	TARGET	4-16-08	TRW
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION	4-16-08	RP
	A) HEADSPACE	4-17-08	TRW
	B) TRIGGER PULL	4-17-08	TRW
	C) SAFETY ON FORCE	4-17-08	TRW
	D) SAFETY OFF FORCE	4-17-08	TRW
	E) FIRING PIN INDENT	4-17-08	TRW
690	PACK	4/21/08	Fm



N/A

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6523369

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	9 24	90	RW
600	Proof	9 24	90	RW
607	Check Headspace	9 24	90	RW
610	Dis-assemble Gun	9 24	90	RW
612	Magnaflux Barrel Action		9-25-90	KR
	Magnaflux Bolt		9-25-90	KR
615	Rollmark Caliber		9-25-90	JS
617	Drill and Tap Sight Holes		9-25-90	FB
618	Polish Barrel RB		9/28/90	WB
620	Apply Coatings (Barrel Action)		10-8-90	TSK
	Apply Coating (Bolt)		10-8-90	TSK
625	Final Assembly A) Clean inside of Bolt Assembly		10/8/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		10/8/90	RW
	C) Inspect Ejector Hole for Chamfer		10/8/90	RW
	D) Oil Firing Pin Ass'y		10/8/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		10/11/90	WB

op. #	OP. NAME	READINGS			DATE	INIT
625 nt.	F) Safety On Force	5 1/2	5 1/2	5 1/2	10/11/90	WB
	G) Safety Off Force	3	3	3	10/11/90	WB
	H) Trigger Pull Test & Retainability				10/11/90	WB
	I) Firing Pin Indent	.0225	.0225	.0225	10/11/90	WB
	J) Assemble Stock				10/11/90	RW
	K) Assemble Swivel Studs				20/10/90	WB
	L) Attach Front and Rear Sight Assemblies				10/11/90	RW
	M) Iron Sight Alignment				10/11/90	RW
	N) Detach Front & Rear Sights & place in numbered container				10/11/90	RW
	O) Attach Scope to Rifle				10/11/90	RW
	P) Detach & Attach Scope 20 Times				10/11/90	RW
640	Gallery Target & Test				10/16/90	KT
	A) Time				"	KT
	B) Malfunctions				"	KT
	C) Pierced Primers				"	KT
	D) Optical Clarity of Scope				"	KT
645	Inspect for Live Ammo				10/16/90	KT
655	Final Inspection					
	A) Headspace				20/10/90	WB
	B) Trigger Pull	246	235	234	223	230
	C) Function				20/10/90	WB
660	Pack				12-1790	DH

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50#+ .50#

3.00#+ .75#

4.00#+1.00#

SERIAL NO. C6523369

DATE 10/11/90

TESTER WB

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.47	2.44	2.51	2.46	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.31	2.43	2.26	2.35	
PULL #3	2.31	2.30	2.42	2.34	
PULL #4	2.26	2.33	2.45	2.23	
PULL #5	2.41	2.26	2.43	2.30	
TOTAL	11.76	11.76	12.07		
AVG.	2.35	2.35	2.41		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.13	3.25		
PULL #2	3.30	3.23		
PULL #3	3.22	3.23		
PULL #4	3.32	3.27		
PULL #5	3.30	3.17		
TOTAL	16.27	16.15		
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	4.17	4.19		4.24
PULL #2	4.19	4.27		4.16
PULL #3	4.19	4.71		4.21
PULL #4	4.21	4.21		4.16
PULL #5	4.23	4.25		4.23
TOTAL	20.99	21.13		21.00
AVG.	4.20	4.23		4.20

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6523369
17 Oct 1990

CENTROIDAL DISTANCES

0 TO	1	.0698928
1 TO	2	.149883
1 TO	3	.38461
1 TO	4	.144003
1 TO	5	.2133

453 <----POA

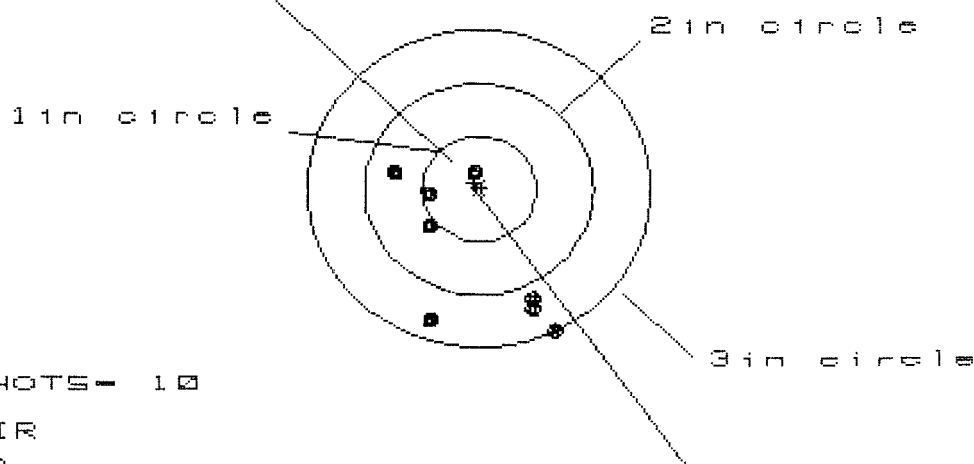
THE AVERAGE COORDINATE FOR THIS RIFLE IS: .132
THE AVERAGE PDINATE FOR THIS RIFLE IS: -.0334
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .13616
THE AMR FOR THIS RIFLE IS: 1.07

16 Oct 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523363

CENTERFIRE PATTERNS # 1

POA



OF SHOTS- 10

IN CIR

1in = 2

2in = 4

3in = 7

HS= 1.392

VS= 3.910

GS= 3.954

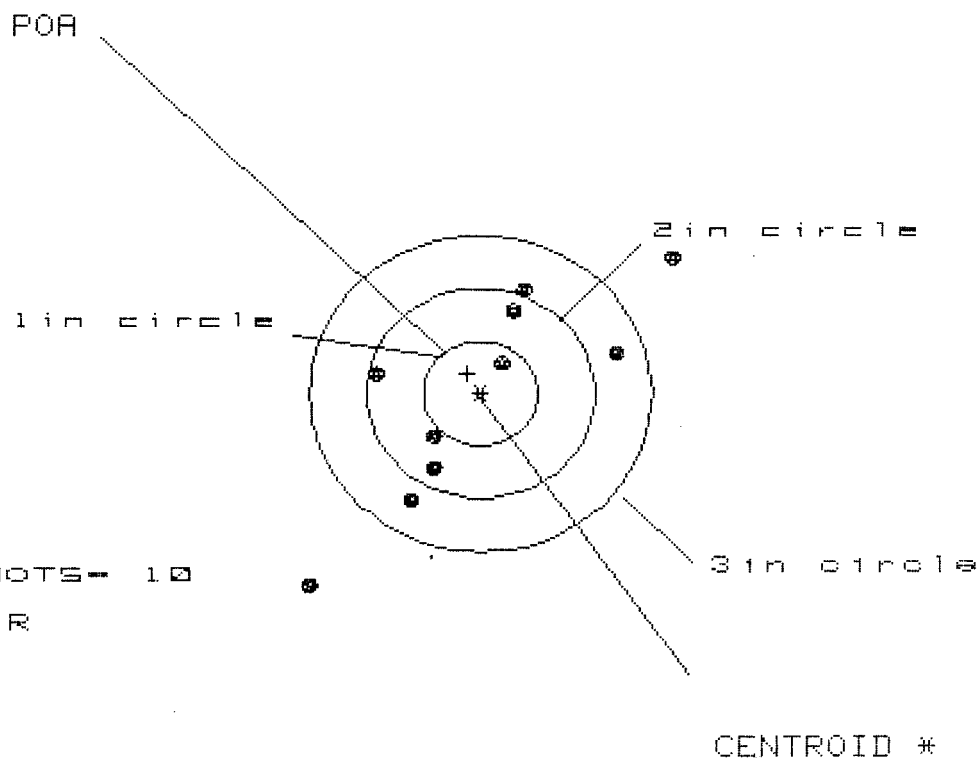
CENTROID #

PATTERN #	:	1	2	3
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.674	.684	.743
MINIMUM X	:	-.718	-.708	-.649
MAXIMUM Y	:	2.559	2.584	.809
MINIMUM Y	:	-1.351	-1.066	-.744
CENTROID X	:	.039	.029	-.030
CENTROID Y	:	-.058	-.343	-.665
POA TO CENTROID in.	:	.070	.344	.666
MIN RADIUS	:	.206	.446	.473
MEAN RADIUS	:	1.208	1.008	.770
MAX RADIUS	:	2.561	2.627	1.051
HORIZONTAL SPREAD	:	1.392	1.392	1.392
VERTICAL SPREAD	:	3.910	3.650	1.553
EXTREME SPREAD	:	3.954	3.656	2.025
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		7	

16 Oct 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523369

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1 in = 1

2 in = 5

3 in = 8

HS= 3.168

VS= 3.113

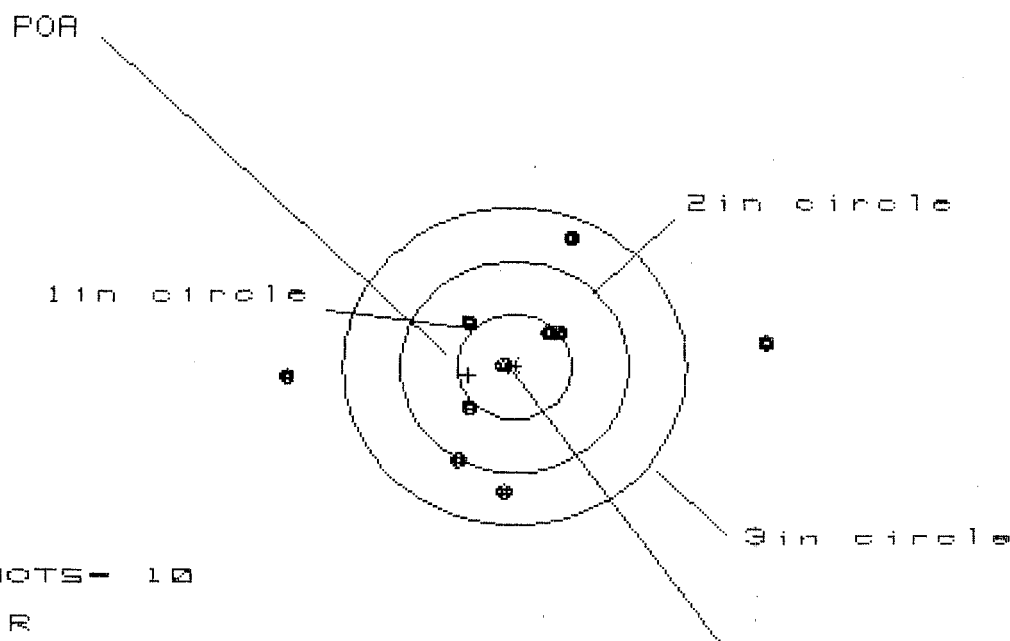
GS= 4.442

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.678	1.512	1.228
MINIMUM X	:	-1.490	-1.118	-.929
MAXIMUM Y	:	1.265	1.059	.944
MINIMUM Y	:	-1.848	-1.191	-1.058
CENTROID X	:	.110	.276	.087
CENTROID Y	:	-.190	.016	-.117
POA TO CENTROID in.	:	.220	.276	.146
MIN RADIUS	:	.333	.075	.305
MEAN RADIUS	:	1.150	.982	.873
MAX RADIUS	:	2.374	1.846	1.273
HORIZONTAL SPREAD	:	3.168	2.630	2.157
VERTICAL SPREAD	:	3.113	2.250	2.002
EXTREME SPREAD	:	4.442	3.181	2.257
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		8	

16 Oct 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523363

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 5

3 in = 8

HS= 4.206

VS= 2.412

GS= 4.217

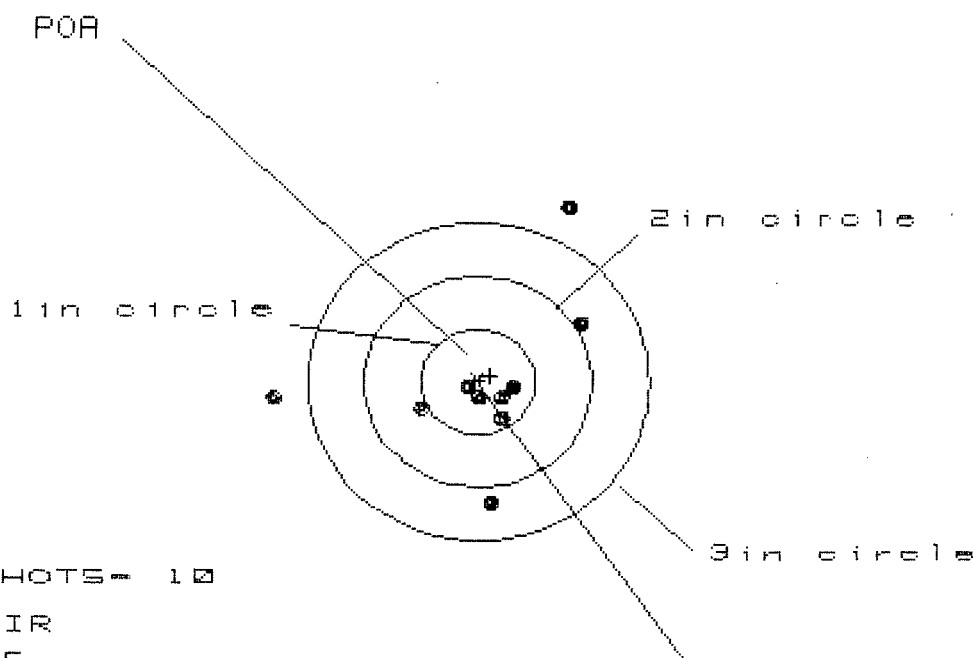
CENTROID #

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	2.239	.715	.500
MINIMUM X	:	-1.967	-1.718	-.465
MAXIMUM Y	:	1.265	1.286	1.274
MINIMUM Y	:	-1.147	-1.126	-1.138
CENTROID X	:	.398	.149	.364
CENTROID Y	:	.080	.059	.071
POA TO CENTROID in.	:	.406	.161	.371
MIN RADIUS	:	.060	.201	.041
MEAN RADIUS	:	1.000	.866	.721
MAX RADIUS	:	2.247	1.721	1.368
HORIZONTAL SPREAD	:	4.206	2.433	.965
VERTICAL SPREAD	:	2.412	2.412	2.412
EXTREME SPREAD	:	4.217	2.798	2.473
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		8	

16 Oct 1990

FILE:/PATTERNING/CENTERFIRE_PATT/C6523369

CENTERFIRE PATTERNS # 4



OF SHOTS = 10

IN CIR

1in = 5

2in = 5

3in = 8

HS= 2.615

VS= 2.810

GS= 3.078

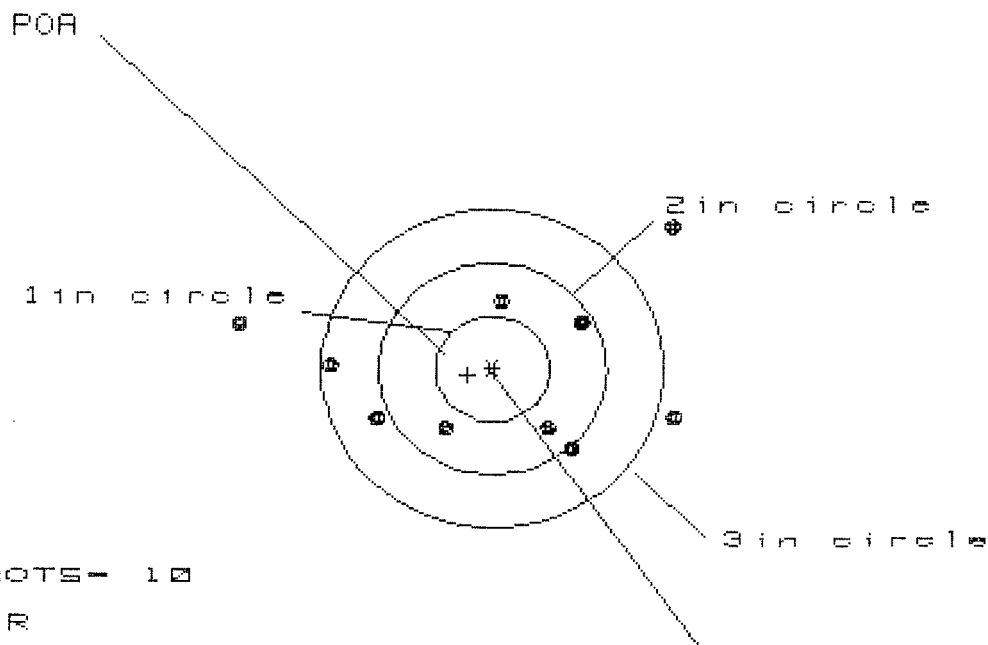
CENTROID #

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.859	.944	.735
MINIMUM X	:	-1.756	-1.671	-.570
MAXIMUM Y	:	1.656	.745	.754
MINIMUM Y	:	-1.154	-.970	-.961
CENTROID X	:	-.105	-.190	.019
CENTROID Y	:	-.057	-.241	-.250
POA TO CENTROID in.	:	.120	.307	.251
MIN RADIUS	:	.117	.071	.082
MEAN RADIUS	:	.742	.602	.436
MAX RADIUS	:	1.823	1.672	1.053
HORIZONTAL SPREAD	:	2.615	2.615	1.305
VERTICAL SPREAD	:	2.810	1.715	1.715
EXTREME SPREAD	:	3.078	2.700	1.886
NUMBER IN ONE INCH CIRCLE	=		5	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		8	

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CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1in = 0

2in = 5

3in = 7

HS= 3.837

VS= 2.022

GS= 3.940

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.584	1.334	1.476
MINIMUM X	:	-2.253	-1.691	-1.524
MAXIMUM Y	:	1.292	1.336	.853
MINIMUM Y	:	-.730	-.686	-.518
CENTROID X	:	.218	.468	.301
CENTROID Y	:	.058	.014	-.154
POA TO CENTROID in.	:	.225	.468	.338
MIN RADIUS	:	.643	.557	.543
MEAN RADIUS	:	1.252	1.107	.992
MAX RADIUS	:	2.297	.888	1.541
HORIZONTAL SPREAD	:	3.837	3.025	3.000
VERTICAL SPREAD	:	2.022	2.022	1.371
EXTREME SPREAD	:	3.940	3.284	3.036
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		7	