

C6349022

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5715**

*Includes 1 in chamber.



Repair Inquiry

Repair Number: RE00151206

Serial: C6349022 Model M24 SWS Center Fire
Caliber: 7.62 NATO

Repairman:

Verify Repair

Status:

Closed 9/16/2008 2:26:23 PM

Address Information

Customer:

Received From

Return To:

Received From

Name: ISD ARMSROOM

ISD ARMSROOM

Address 1: 8TH DESERT STORM

8TH DESERT STORM

Address 2: BLDG 5210 BAY DOOR #30

PO Box:

BLDG 5210 BAY DOOR #30

PO Box:

City: FORT CAMPBELL

FORT CAMPBELL

State: KY

Zip Code: 42223

Country: US

State: KY

Zip Code: 42223

Country: US

FFL:

Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

Contact Information

Phone: NN

Fax:

Email:

Comments:

Received Condition

Fair

Condition
Notes:CSR
Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	3
A017	Scope Base	1
A057	Fit and Rear Sgt Base	1

Repair Search

Refresh

Close

nagletj

9/16/2008

3:25 PM

CAPS

NUM

INS

SCAL

Serial Number: C6349022

Model M24 SWS



RE00151206

M-24 INSPECTION CHECKLIST
 CONTRACT NO. DAAB-20-02-0-0149

 SERIAL NO. 151206
 STATION NO. C6349022
 INSPECTION DATE 9-16-08

OPERATION #	OPERATION NAME	DATE	INITIALS
500	DIS-ASSEMBLE GUN	9-18-08	RTZ
505	RE-BARREL	9-22-08	RTZ
560	ASSEMBLE	9-22-08	RTZ
600	PROOF	9-22-08	SPD
605	CHECK HEADSPACE	9-22-08	SPD
610	DIS-ASSEMBLE GUN	9-22-08	SPD
612	MAGNAFLUX	9/30/08	AB
510	DRILL AND TAP	9-23-08	SP
615	ROLLMARK CALIBER	9/30/08	RT
618	ROTO-BLAST		
620	APPLY COATINGS	10 /	
625	FINAL ASSEMBLY	10-7-08	RTZ
640	FUNCTION TEST AND	10-10-08	TC
650	TARGET	10-10-08	TC
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION	10-10-08	BSN
	A) HEADSPACE	10-22-08	SPD
		10-22-08	SPD
	B) TRIGGER PULL	2.83 2.86 2.87 2.86 2.87	10/16/08 FM
	C) SAFETY ON FORCE	4.0 4.0 4.0	10-22-08 SPD
	D) SAFETY OFF FORCE	5.0 4.5 4.5	10-22-08 SPD
	E) FIRING PIN INDENT	.023 .022 .021	10-22-08 SPD
690	PACK		10/30/08 FM

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6349022.___0

FILE DATE AND TIME: 10/11/2008 07:02

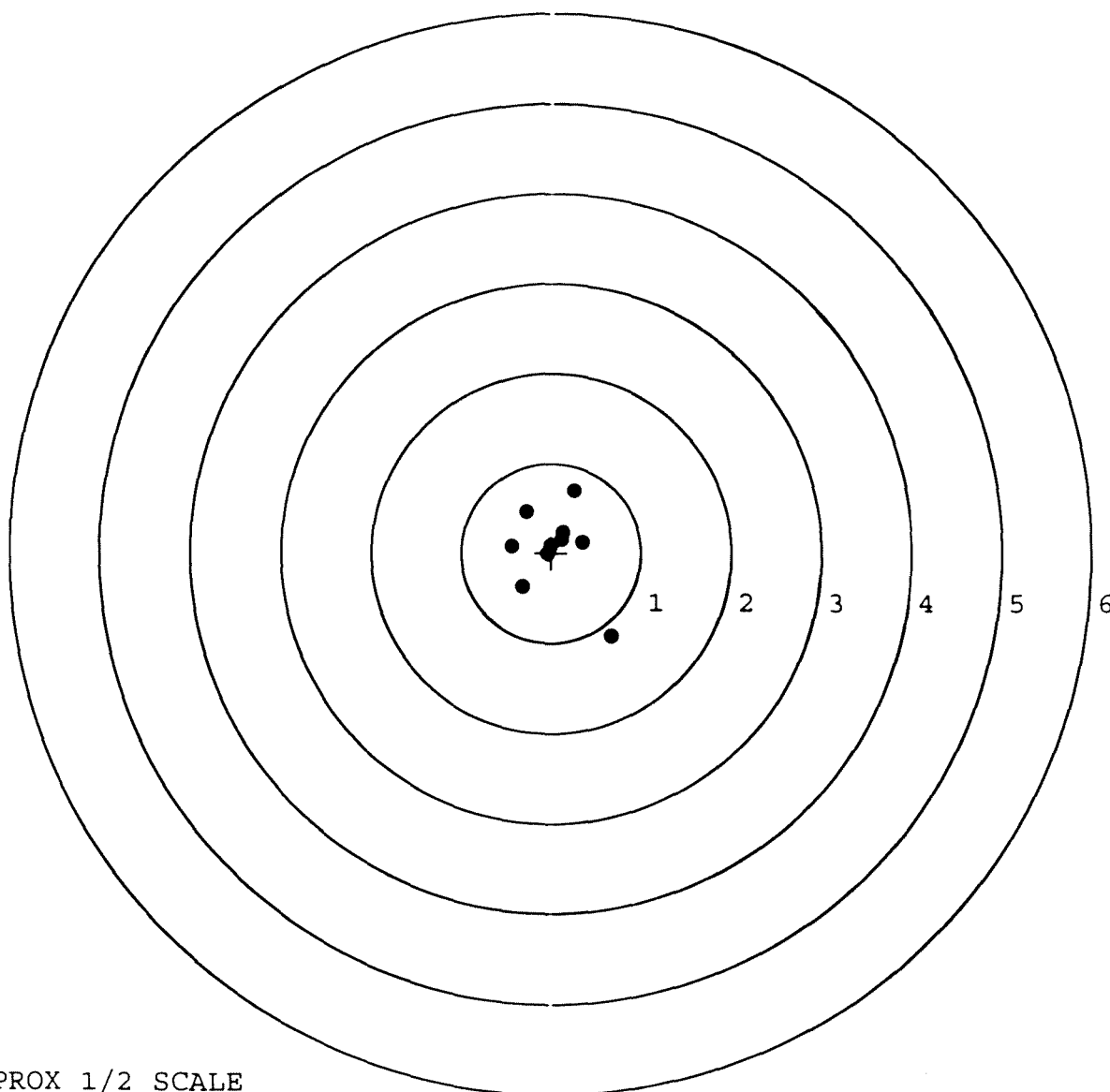
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.010
The Average Y Centroid of the Five Target Set:	0.107
The Average Point of Impact of the Five Target Set:	0.108
The Average Mean Radius of the Five Target Set:	0.590
The Distance from POA to Centroid Target #1:	0.068
The Distance from Centroid Target #2 to Centroid Target #1:	0.006
The Distance from Centroid Target #3 to Centroid Target #1:	0.176
The Distance from Centroid Target #4 to Centroid Target #1:	0.150
The Distance from Centroid Target #5 to Centroid Target #1:	0.189

SERIAL NUMBER: C6349022. __ 0
 TARGET NUMBER: 1
 FILE DATE: 10/11/2008
 FILE TIME: 07:02

POINT#	X	Y
1:	0.679	-0.932
2:	0.260	0.692
3:	-0.280	0.459
4:	-0.435	0.076
5:	0.354	0.119
6:	-0.044	-0.015
7:	-0.315	-0.383
8:	0.138	0.233
9:	0.124	0.149
10:	0.005	0.082

X CENTROID: 0.049
 Y CENTROID: 0.048
 POA TO CENTROID: 0.068
 HORZ SPREAD: 1.114
 VERT SPREAD: 1.624
 GROUP SPREAD: 1.690
 MIN RADIUS: 0.055
 MAX RADIUS: 1.165
 MEAN RADIUS: 0.423
 # IN 1 IN DIAMETER: 6
 # IN 2 IN DIAMETER: 9
 # in 3 IN DIAMETER: 10

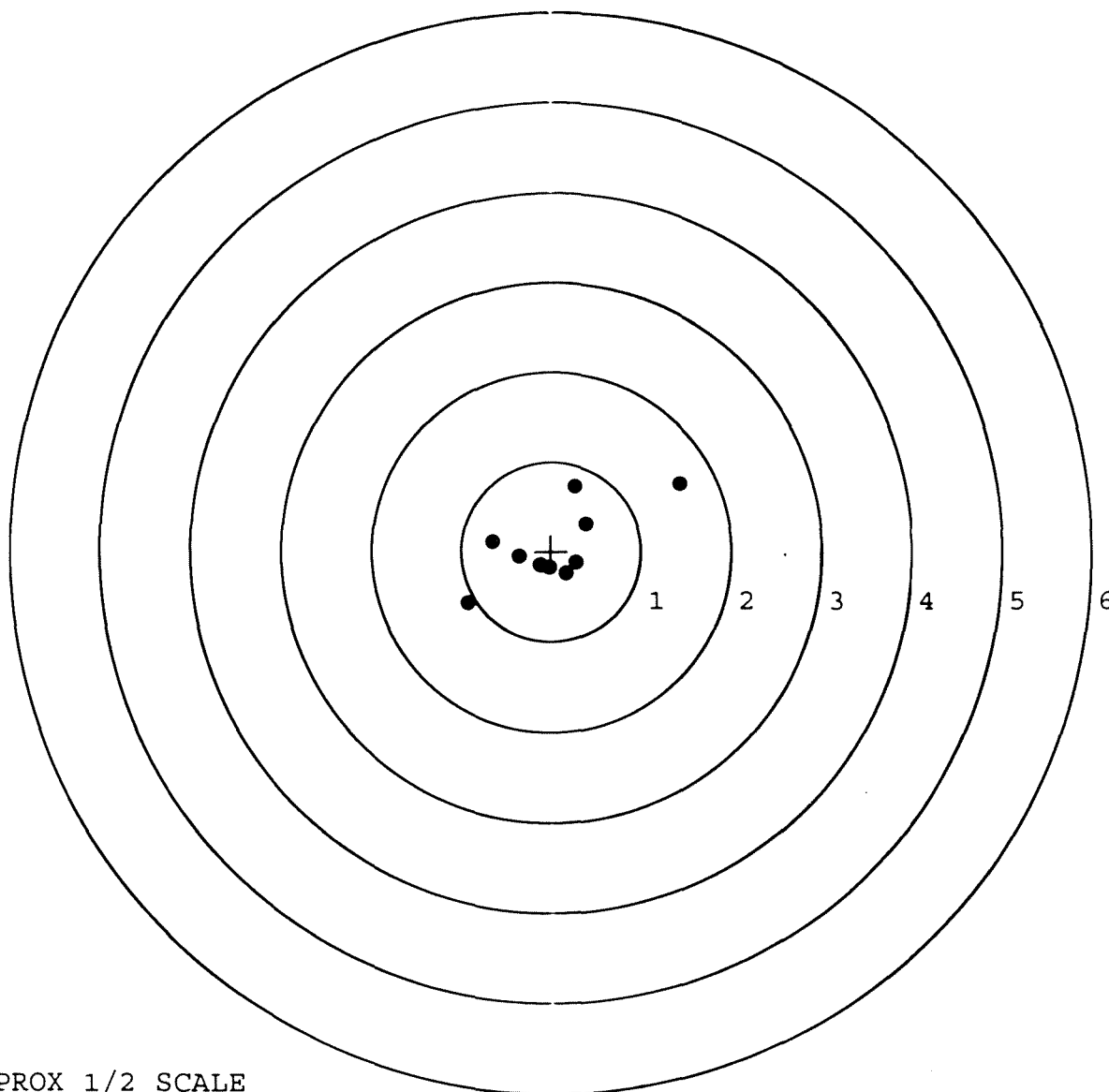


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349022. 0
 TARGET NUMBER: 2
 FILE DATE: 10/11/2008
 FILE TIME: 07:02

X CENTROID: 0.047
 Y CENTROID: 0.054
 POA TO CENTROID: 0.071
 HORZ SPREAD: 2.356
 VERT SPREAD: 1.333
 GROUP SPREAD: 2.707
 MIN RADIUS: 0.247
 MAX RADIUS: 1.549
 MEAN RADIUS: 0.611
 # IN 1 IN DIAMETER: 6
 # IN 2 IN DIAMETER: 8
 # in 3 IN DIAMETER: 9

POINT#	X	Y
1:	1.429	0.753
2:	0.273	0.722
3:	0.388	0.308
4:	0.282	-0.133
5:	0.173	-0.253
6:	-0.122	-0.154
7:	-0.360	-0.056
8:	-0.647	0.114
9:	-0.927	-0.580
10:	-0.024	-0.183

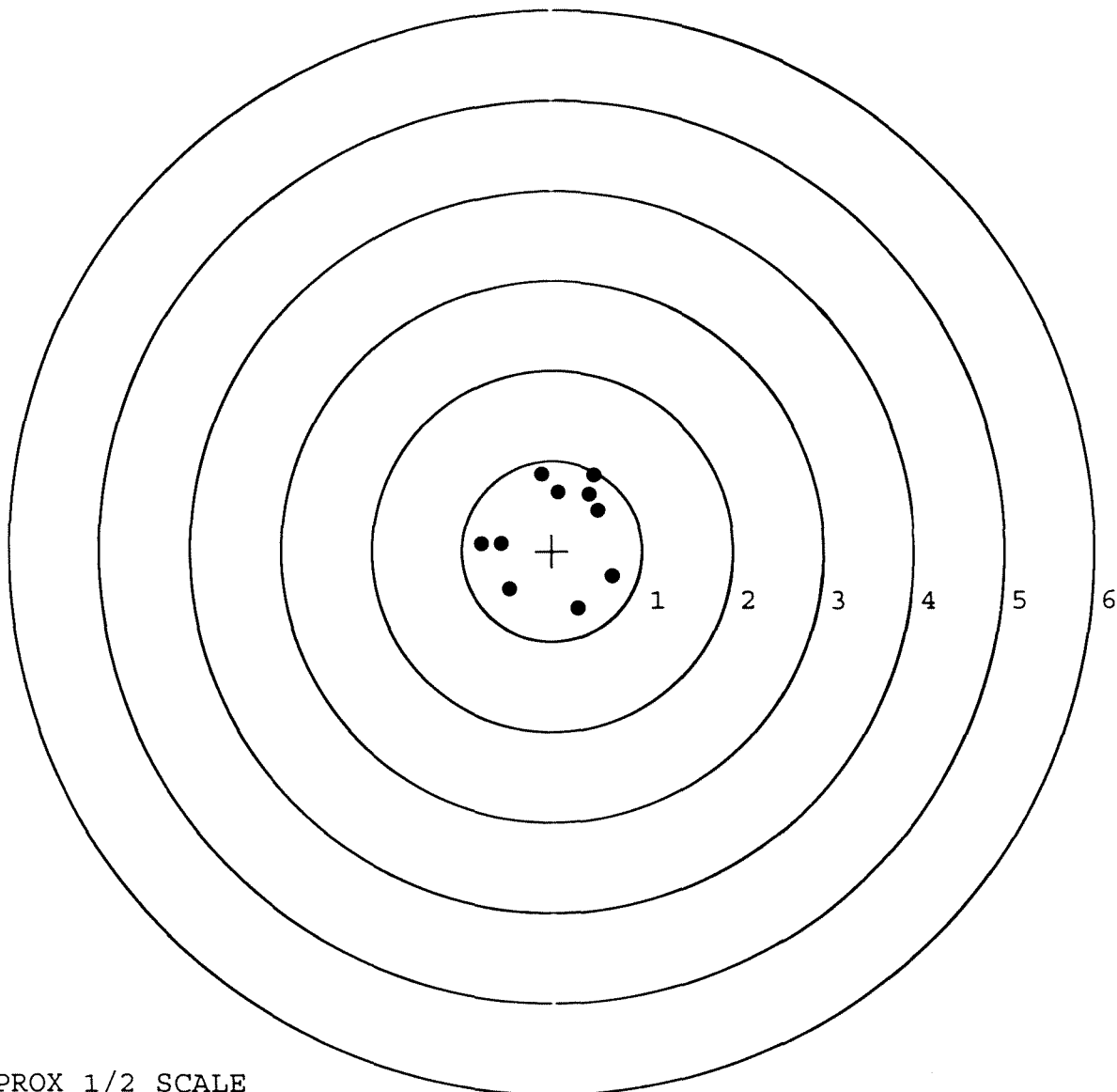


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349022. 0
 TARGET NUMBER: 3
 FILE DATE: 10/11/2008
 FILE TIME: 07:02

X CENTROID: 0.048
 Y CENTROID: 0.224
 POA TO CENTROID: 0.229
 HORZ SPREAD: 1.449
 VERT SPREAD: 1.494
 GROUP SPREAD: 1.549
 MIN RADIUS: 0.428
 MAX RADIUS: 0.903
 MEAN RADIUS: 0.689
 # IN 1 IN DIAMETER: 1
 # IN 2 IN DIAMETER: 10
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.470	0.841
2:	0.414	0.627
3:	0.513	0.447
4:	0.668	-0.282
5:	0.291	-0.646
6:	-0.477	-0.424
7:	-0.565	0.087
8:	-0.781	0.090
9:	0.070	0.651
10:	-0.118	0.848

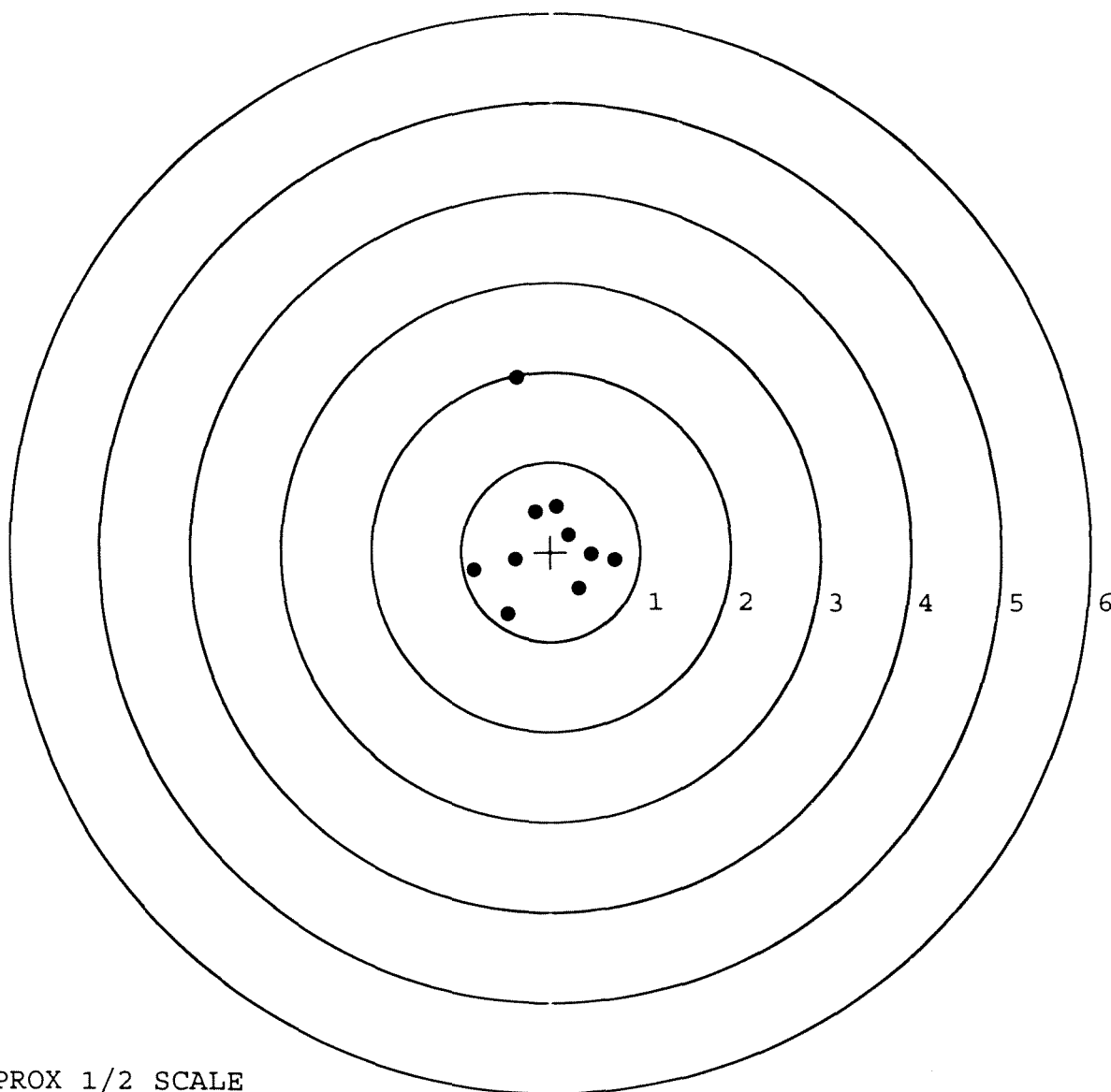


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349022. 0
 TARGET NUMBER: 4
 FILE DATE: 10/11/2008
 FILE TIME: 07:02

X CENTROID: -0.054
 Y CENTROID: 0.158
 POA TO CENTROID: 0.166
 HORZ SPREAD: 1.576
 VERT SPREAD: 2.632
 GROUP SPREAD: 2.634
 MIN RADIUS: 0.256
 MAX RADIUS: 1.811
 MEAN RADIUS: 0.705
 # IN 1 IN DIAMETER: 4
 # IN 2 IN DIAMETER: 9
 # in 3 IN DIAMETER: 9

POINT#	X	Y
1:	0.719	-0.087
2:	0.458	-0.033
3:	0.315	-0.411
4:	0.200	0.193
5:	0.066	0.510
6:	-0.180	0.452
7:	-0.397	-0.087
8:	-0.857	-0.205
9:	-0.477	-0.694
10:	-0.384	1.938

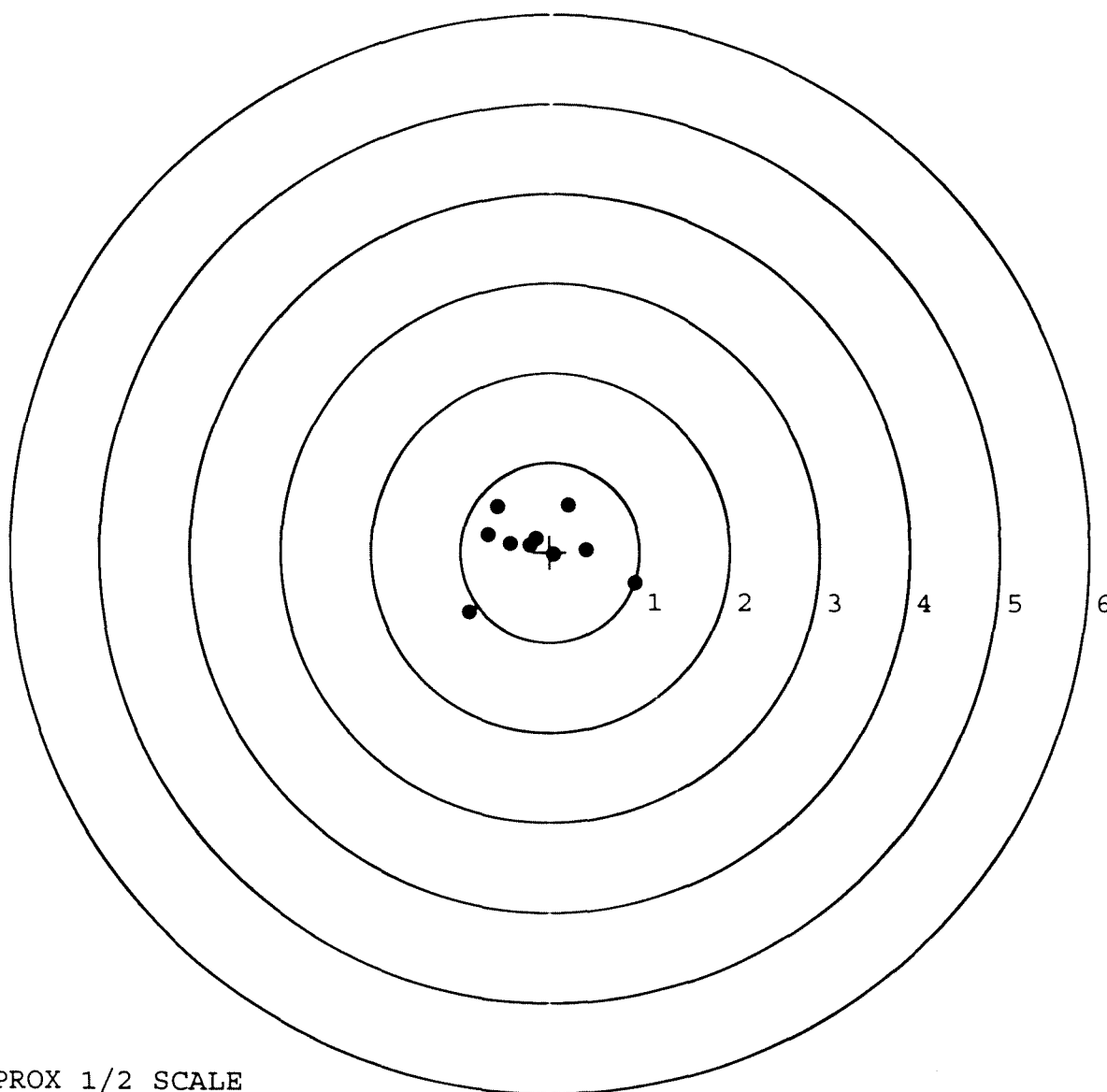


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349022. 0
 TARGET NUMBER: 5
 FILE DATE: 10/11/2008
 FILE TIME: 07:02

X CENTROID: -0.140
 Y CENTROID: 0.054
 POA TO CENTROID: 0.150
 HORZ SPREAD: 1.854
 VERT SPREAD: 1.194
 GROUP SPREAD: 1.883
 MIN RADIUS: 0.088
 MAX RADIUS: 1.160
 MEAN RADIUS: 0.525
 # IN 1 IN DIAMETER: 4
 # IN 2 IN DIAMETER: 8
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.951	-0.340
2:	0.410	0.032
3:	0.202	0.523
4:	-0.588	0.508
5:	-0.689	0.197
6:	-0.446	0.094
7:	-0.158	0.149
8:	0.045	-0.030
9:	-0.903	-0.671
10:	-0.225	0.077



TARGET APPROX 1/2 SCALE

SWS	382
-----	-----

ACCESSORIES	W/STUDS	SCOPE	BASE
-------------	---------	-------	------

SHIP TO:

US ARMY
ATTN: JAMES C STARNES JR
GSC 5TH SFG (A)
FORT CAMPBELL

CUST NO: 208414 C.D.D.

ACCOUNT NUMBER N/C

WRITE

PROM. DATE

ESTIMATED

VIA

DOOR

☐ NEW
☐ LIGHTLY WORN
☐ WORN
☐ VERY WORN
☐ UNREPAIRABLE
☐ MARRED

REPAIR CHARGE

EXCISE

TAX

INSURANCE

UPS

PARCEL POST

TOTAL

CUSTOMER CONCERN	AMMO	FUNCTION	FINISH	ACCURACY	FIT	INSPECT
------------------	------	----------	--------	----------	-----	---------

CYCLE	A1	B1				
TRIGGER GROUP		B2			E1	F1
BOLT ASSY.		B3			E2	F2
BARREL ASSY.		B4		D1	E3	F3
REC. ASSY.		B5		D2	E4	F4
WOOD			C1	D3	E5	F5
METAL			C2			

MAIN FAULT

PARTS

COMMENTS

Barrel	9600.3
Extractor	91816

REPAIRMAN

PROOF

CLEAN

TEST

TARGET

PATTER

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
GALLERY TESTER																																																																																																			

DATE _____

DATE _____

DATE _____

DATE _____

DATE _____

OFFICE COPY

RD6925 REV. 7/9

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER

BARBER - M24 M2400105959

Receipt Of Firearm(s) Delivered to the Plant for Repair
Firearm Checked For Live Ammunition []

File # 00382

Delivery Date 4/7/99Customer Name (Print) US Army, James C Starns Jr.
Address GSC 5th SFG, Ft Campbell State KY Zip 42223
Phone Number (502)-798-2882/7932Firearm Description Model 700 (M24) Cal./ Ga. 7.62
Serial Number C6349022Stock/ Fore-end Condition circle the description
(Excellent; Good; Fair; Poor; Fancy; Plain, Synthetic, Wood)

Comments on Stock/ Fore-end condition _____

Metal Condition circle the description

(Excellent; Good; Fair; Poor; Fancy; Plain Stainless Steel)

Comments on Metal condition _____

Barrel Type (VT. Rib; Plain; Deer; Stainless Steel) Barrel length _____

List additional accessories IE Scope, Sling, Gun case and description; _____

Customer request: ReconditioningReturn Process Return to Clark St. Ent. [] Return via UPS ☒**By signing this receipt the person delivering the firearm understands to be the only person to receive the firearm upon completion of repairs.**Signature James C Starns Jr. Date 4/7/99
person delivering firearm.Signature [Signature] Date 4/7/99
security officerSignature Ang [Signature] Date 4/7/99
arms service / CSR

Customer Pick Up Verification

I certify, I am the same person whom delivered the above described firearm to the Remington Ilion plant for repair and may lawfully possess a firearm in New York StateSignature _____ Date ____/____/____
person receiving firearm must be the same whom deliveredSignature _____ Date ____/____/____
security officer or other witness returning the firearm

Remington Test Lab, Ilion, N.Y.

Centroidal distance calculations for Rifle # c6349022
18 Jun 1999

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0732
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.029
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0787353

THE AMR FOR THIS RIFLE IS: 1.218

CENTROIDAL DISTANCES

0	TO	1	.65728
1	TO	2	.709474
1	TO	3	.445786
1	TO	4	1.0095
1	TO	5	1.14797

4	5
2 +	<----POA
3	
1	

REMINGTON CENTERFIRE ACCURACY TEST

REMINGTON TEST LAB, ILION, N.Y.

PATTERN #: ☐ 1 ☐

POA TO CENTROID: .625

MIN RADIUS : .555

MEAN RADIUS : 1.270

MAX RADIUS : 2.727

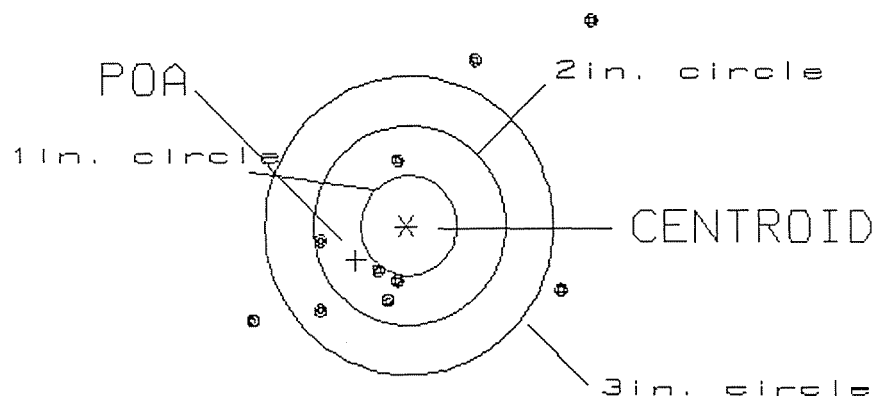
CENTROID X : .521

CENTROID Y : .345

18 Jun 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6349022

CENTERFIRE PATTERN # 1



OF SHOTS= 10

IN CIRCLE

HS= 3.46

0

VS= 2.92

5

GS= 4.53

6

PATTERN #: 2

POA TO CENTROID: .352

MIN RADIUS : .716

MEAN RADIUS : 1.031

MAX RADIUS : 1.567

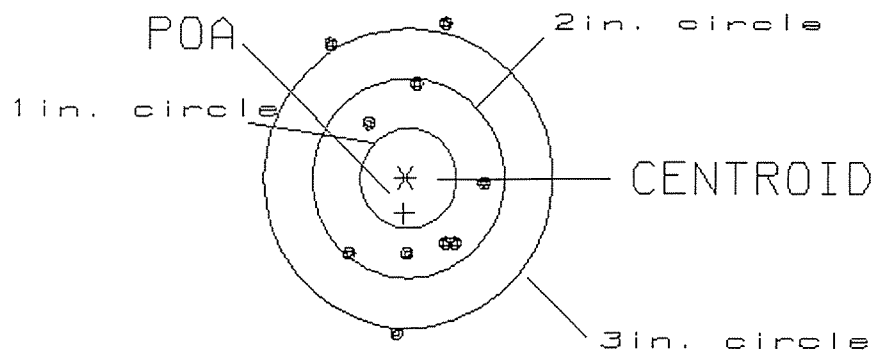
CENTROID X : .014

CENTROID Y : .352

18 Jun 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6349022

CENTERFIRE PATTERN # 2



OF SHOTS= 10

IN CIRCLE

HS= 1.55

0

VS= 3.06

7

GS= 3.09

7

REMINGTON CENTERFIRE ACCURACY TEST

REMINGTON TEST LAB, ILION, N.Y.

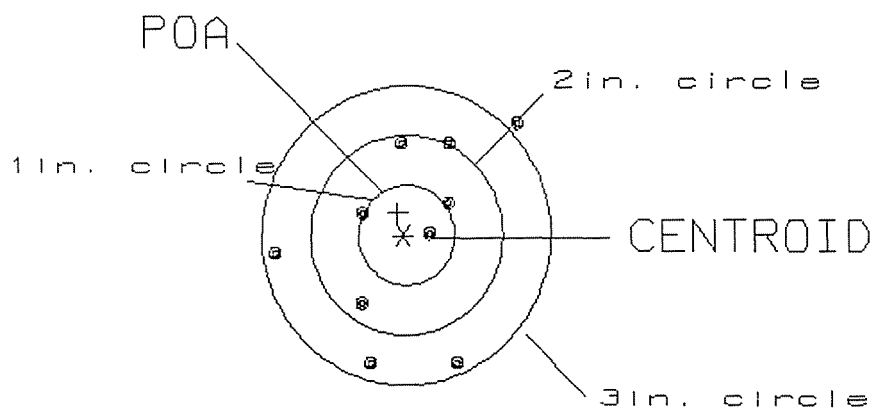
PATTERN #: ☐ 3 ☐

POA TO CENTROID: .232
MIN RADIUS : .192
MEAN RADIUS : .961
MAX RADIUS : 1.602
CENTROID X : .065
CENTROID Y : -.223

18 Jun 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6349022

CENTERFIRE PATTERN # 3



OF SHOTS= 10

IN CIRCLE

HS= 2.50

2

VS= 2.39

6

GS= 2.81

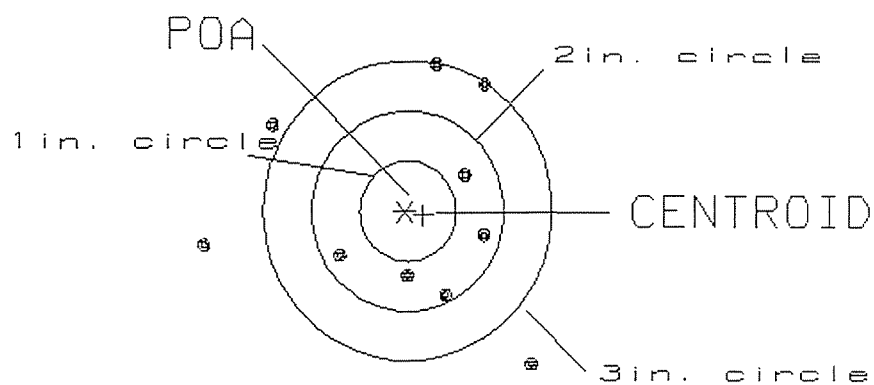
9

PATTERN #: ☐ 4 ☐
POA TO CENTROID: .196
MIN RADIUS : .640
MEAN RADIUS : 1.269
MAX RADIUS : 2.095
CENTROID X : -.193
CENTROID Y : .037

18 Jun 1999

FILE:/Hqbasic/Accuracy/Patterning/Centerfire_Patt/c6349022

CENTERFIRE PATTERN # 4



OF SHOTS= 10

IN CIRCLE

HS= 3.39

0

VS= 3.03

5

GS= 3.64

6

REMINGTON CENTERFIRE ACCURACY TEST

REMINGTON TEST LAB, ILION, N.Y.

PATTERN #: ☐ 5 ☐

POA TO CENTROID: .658

MIN RADIUS : .802

MEAN RADIUS : 1.560

MAX RADIUS : 2.391

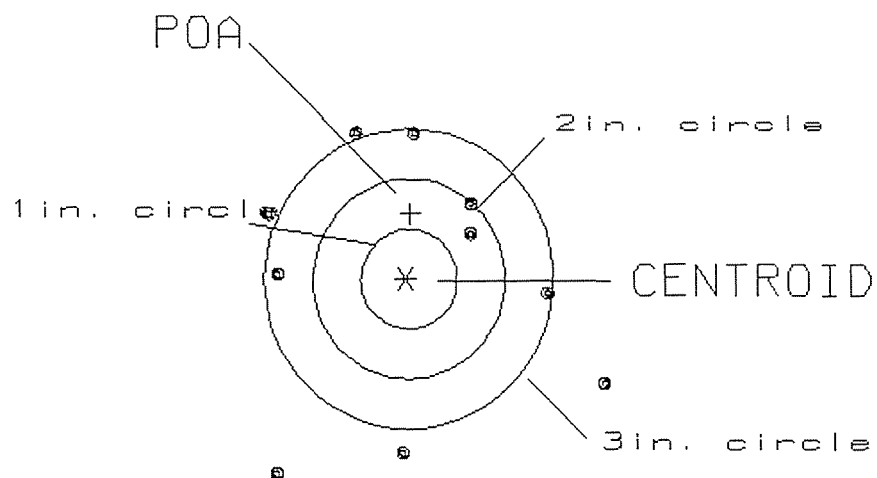
CENTROID X : -.041

CENTROID Y : -.656

18 Jun 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6349022

CENTERFIRE PATTERN # 5



OF SHOTS= 10

IN CIRCLE

HS= 3.48

0

VS= 3.46

2

GS= 3.89

5

Remington®

MODEL 700™ M24

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

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

DUPONT
REG. U.S. PAT. & T.M. OFF.

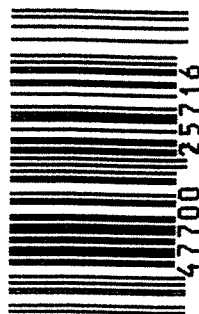
SERIAL NO.
C6349022

ORDER NO.
5716



5716 C6349022

UPC



0 47700 25716 7

CONTRACT # DAAA21-87-G-0086

GUN SERIAL # C6349022

Replace

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	1 12	90	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	JS
617	Drill and Tap Sight Holes		1/14/90	LB
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		2/2/90	WB
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		2/2/90	RW
	C) Inspect Ejector Hole for Chamfer		2/2/90	RW
	D) Oil Firing Pin Ass'y		2/2/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		2-8-90	GH

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4 1/2	5	4 1/2			7/8/90	WB
	G) Safety Off Force	2 1/2	2 1/2	2 1/2			7/8/90	WB
	H) Trigger Pull Test & Retainability						2-8-90	JAC
	I) Firing Pin Indent	.0215	.021	.0214			7/8/90	WB
	J) Assemble Stock						3/14/90	RW
	K) Assemble Swivel Studs						16 MAR 90	JS
	L) Attach Front and Rear Sight Assemblies						3/14/90	RW
	M) Iron Sight Alignment						3/14/90	RW
	N) Detach Front & Rear Sights & place in numbered container						3/14/90	RW
	O) Attach Scope to Rifle						14 MAR 90	JS
	P) Detach & Attach Scope 20 Times						14 MAR 90	JS
640	Gallery Target & Test						3-15-90	A
	A) Time						"	A
	B) Malfunctions						"	A
	C) Pierced Primers						"	A
	D) Optical Clarity of Scope						"	A
645	Inspect for Live Ammo						3-15-90	A
655	Final Inspection							
	A) Headspace						16 MAR 90	JS
	B) Trigger Pull	2.71	2.69	2.71	2.71	2.62	16 MAR 90	JS
	C) Function						16 MAR 90	JS
660	Pack						19 MAR 90	JS

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. 06349022DATE 2-8-90TESTER JH

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.40	2.42	2.40	2.71	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.44	2.37	2.32	2.69	
PULL #3	2.37	2.44	2.43	2.71	
PULL #4	2.47	2.41	2.44	2.71	
PULL #5	2.38	2.42	2.40	2.62	
TOTAL	12.06	12.06	11.99	12.74	
AVG.	2.412	2.412	2.398	2.688	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.40	3.44		
PULL #2	3.34	3.40		
PULL #3	3.40	3.42		
PULL #4	3.35	3.40		
PULL #5	3.43	3.46		
TOTAL	16.92	17.12		
AVG.	3.384	3.424		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.26	4.26		4.25
PULL #2	4.28	4.25		4.21
PULL #3	4.31	4.30		4.24
PULL #4	4.30	4.35		4.30
PULL #5	4.30	4.26		4.24
TOTAL	21.45	21.42		
AVG.	4.29	4.284		

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6349022
15 Mar 1990

CENTROIDAL DISTANCES

0 TO	1	.154729
1 TO	2	.487922
1 TO	3	.260732
1 TO	4	.372549
1 TO	5	.313919

$\bar{x}_{42}$ <----FOR

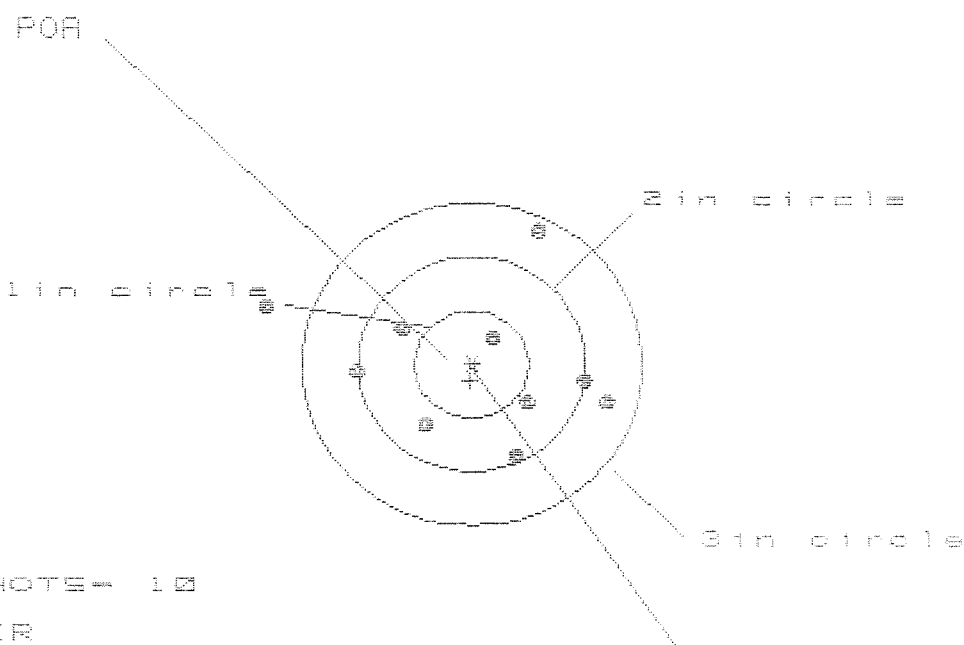
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0468
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.078
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0909628
THE AMR FOR THIS RIFLE IS: .8824

15 Mar 1990

FILE:/PATTERNING/CENTERFIRE_PATT/C6349022

CENTERFIRE PATTERNS

1



OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 9

HS= 3.023

VS= 2.119

GS= 3.170

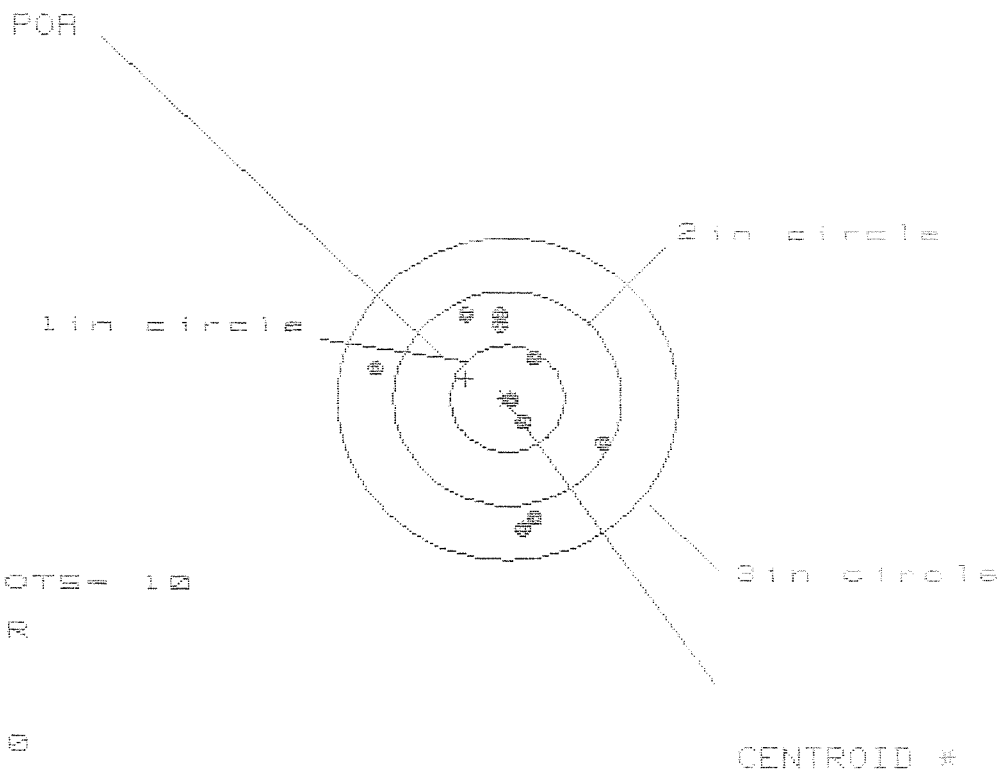
CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.188	.984	1.038
MINIMUM X	-1.835	-1.237	-1.183
MAXIMUM Y	1.220	1.282	.618
MINIMUM Y	-.899	-.837	-.675
CENTROID X	.015	.219	.165
CENTROID Y	.154	.092	-.069
POA TO CENTROID in.	.155	.237	.179
MIN RADIUS	.290	.283	.386
MEAN RADIUS	.993	.860	.789
MAX RADIUS	1.918	1.352	1.193
HORIZONTAL SPREAD	3.023	2.221	2.221
VERTICAL SPREAD	2.119	2.119	1.294
EXTREME SPREAD	3.170	2.244	2.244
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	9		

15 Mar 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6349022

CENTERFIRE PATTERNS # 2



OF SHOTS = 10

IN CIR

1 in = 3

2 in = 7

3 in = 10

HS = 1.835

VS = 2.057

GS = 2.109

CENTROID #

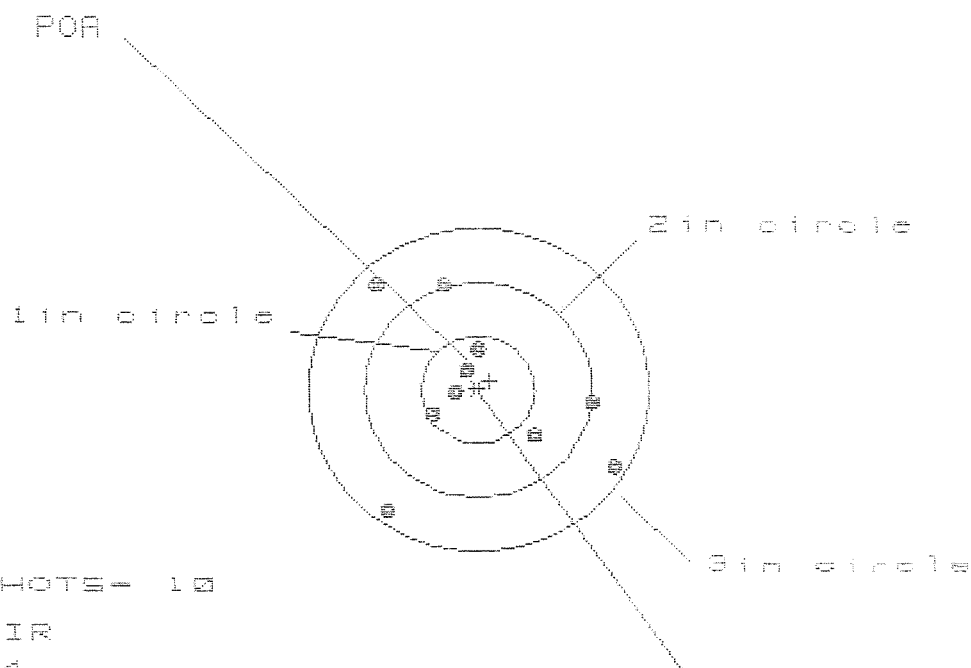
PATTERN #	2	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.808	.818	.678
MINIMUM X	-1.127	-1.117	-.585
MAXIMUM Y	.807	.668	.691
MINIMUM Y	-1.250	-1.256	-1.233
CENTROID X	.363	.353	.493
CENTROID Y	-.188	-.049	-.072
POR TO CENTROID in.	.409	.357	.498
MIN RADIUS	.022	.120	.155
MEAN RADIUS	.755	.688	.622
MAX RADIUS	1.253	1.287	1.241
HORIZONTAL SPREAD	1.935	1.935	1.183
VERTICAL SPREAD	2.057	1.924	1.924
EXTREME SPREAD	2.109	2.076	2.030
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		7	
NUMBER IN THREE INCH CIRCLE =		10	

15 Mar 1998

FILE:/PATTERNING/CENTERFIRE_PATT/08349022

CENTERFIRE PATTERNS

3



OF SHOTS= 10

IN CIR

1in = 4

2in = 5

3in = 10

HS= 2.070

VS= 2.167

GS= 2.705

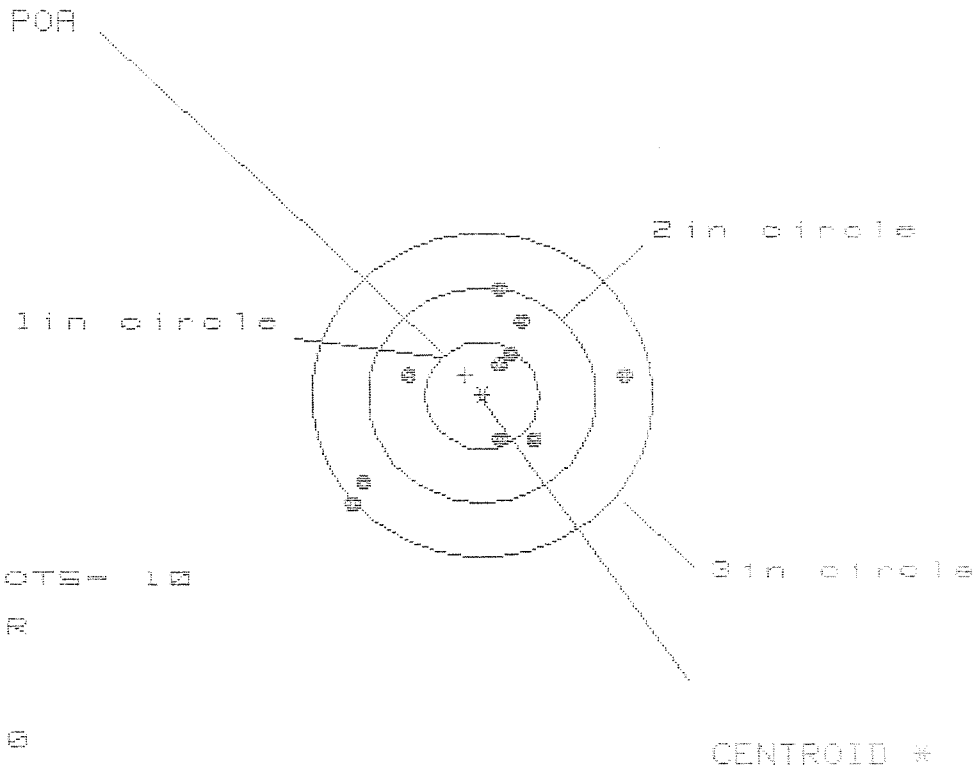
CENTROID *

PATTERN #	10	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.190	1.150	1.071
MINIMUM X	-.880	-.748	-.927
MAXIMUM Y	1.022	.940	.787
MINIMUM Y	-1.145	-1.227	-.636
CENTROID X	-.100	-.232	-.153
CENTROID Y	-.080	.002	.155
POA TO CENTROID in.	.128	.232	.218
MIN RADIUS	.180	.096	.077
MEAN RADIUS	.810	.718	.631
MAX RADIUS	1.399	1.381	1.131
HORIZONTAL SPREAD	2.070	1.898	1.898
VERTICAL SPREAD	2.167	2.167	1.423
EXTREME SPREAD	2.705	2.209	2.202
NUMBER IN ONE INCH CIRCLE =	4		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	10		

15 Mar 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06349022

CENTERFIRE PATTERNS # 4



OF SHOTS= 10

IN CIR

1in = 3

2in = 7

3in = 10

HS= 2.424

VS= 1.962

GS= 2.683

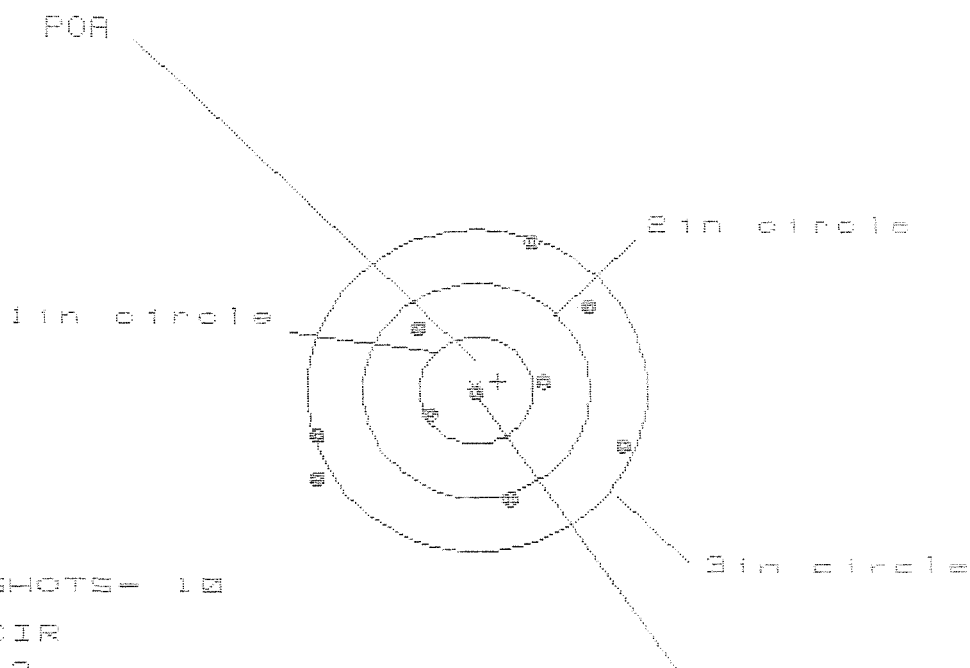
CENTROID *

PATTERN #	4	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.381	1.177	1.032
MINIMUM X	-1.123	-1.156	-1.909
MAXIMUM Y	.989	.881	.763
MINIMUM Y	-.973	-.942	-.676
CENTROID X	.148	.272	.417
CENTROID Y	-.194	-.086	.032
POA TO CENTROID in.	.244	.285	.418
MIN RADIUS	.358	.207	.117
MEAN RADIUS	.844	.734	.603
MAX RADIUS	1.486	1.492	1.033
HORIZONTAL SPREAD	2.424	2.333	1.941
VERTICAL SPREAD	1.962	1.823	1.439
EXTREME SPREAD	2.683	2.543	1.941
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		7	
NUMBER IN THREE INCH CIRCLE =		10	

15 Mar 1998

FILE:/PATTERNING/CENTERFIRE_PATT/08349022

CENTERFIRE PATTERNS # 5



OF SHOTS= 10

IN CIR

1 in = 2

2 in = 4

3 in = 8

HS= 2.715

VS= 2.409

GS= 2.964

CENTROID *

PATTERN #	5
SHOTS (BEST OF)	10
MAXIMUM X	1.286
MINIMUM X	-1.429
MAXIMUM Y	1.422
MINIMUM Y	-0.987
CENTROID X	-0.192
CENTROID Y	-0.082
POA TO CENTROID in.	0.209
MIN RADIUS	0.011
MEAN RADIUS	1.010
MAX RADIUS	1.639
HORIZONTAL SPREAD	2.715
VERTICAL SPREAD	2.409
EXTREME SPREAD	2.964
NUMBER IN ONE INCH CIRCLE	2
NUMBER IN TWO INCH CIRCLE	4
NUMBER IN THREE INCH CIRCLE	8