

C6225485

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.



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: RE00144823

Serial: C6225485 Model M24 SWS Center Fire
Caliber: 7.62 NATO

Repairman:

Verify Repair

Status:

Closed 4/24/2008 10:57:22 AM

Address Information

Customer:

☒ Received From

Return To:

☐ Received From

Name: B/210TH BSB

B/210TH BSB

Address 1: 2 BCT

2 BCT

Address 2: 10 TH MTN DIV

PO Box:

10 TH MTN DIV

PO Box:

City: FORT DRUM

FORT DRUM

State: NY

Zip Code: 13602

Country: US

State: NY

Zip Code: 13602

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
A008	With Swivel	2
A010	Hard Case	1
A026	Scope	1
A057	Fit and Rear Sgt Base	1

nagletj

4/24/2008

12:24 PM

DAFS

NUM

H start

4 Micros...

The Asso...

2 Micros...

SAP Logo...

Arms Ser...

Serial Number: C6225485

Model: M24 SWS



RE00144823

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

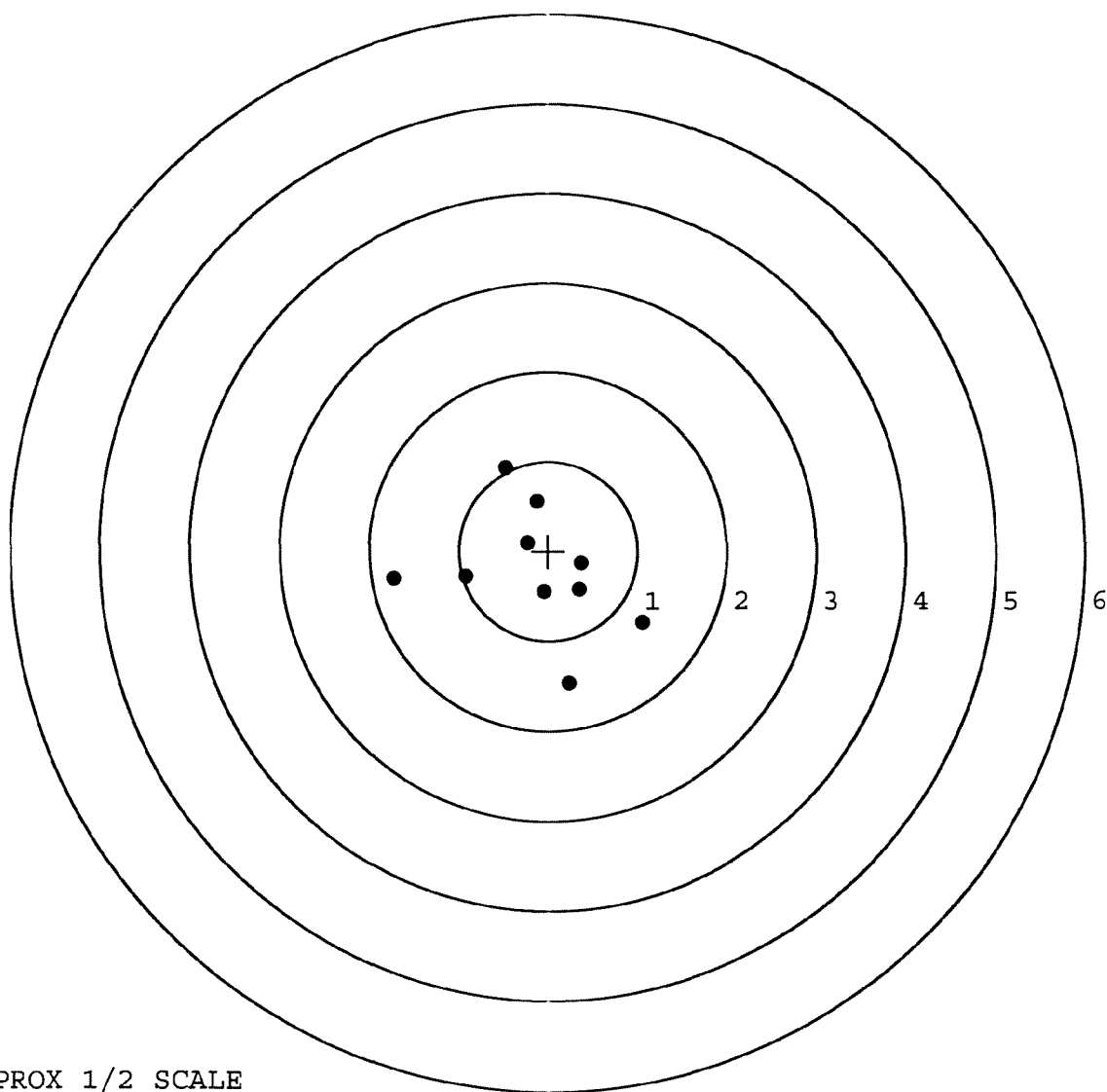
FIREARM SERIAL NUMBER / DATASET NAME: C6225485.___0

FILE DATE AND TIME: 05/23/2008 05:37

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.052
The Average Y Centroid of the Five Target Set:	-0.066
The Average Point of Impact of the Five Target Set:	0.084
The Average Mean Radius of the Five Target Set:	0.681
The Distance from POA to Centroid Target #1:	0.279
The Distance from Centroid Target #2 to Centroid Target #1:	0.369
The Distance from Centroid Target #3 to Centroid Target #1:	0.217
The Distance from Centroid Target #4 to Centroid Target #1:	0.279
The Distance from Centroid Target #5 to Centroid Target #1:	0.211

SERIAL NUMBER: C6225485. 0	POINT#	X	Y
TARGET NUMBER: 1	1:	1.060	-0.798
FILE DATE: 05/23/2008	2:	0.373	-0.139
FILE TIME: 05:37	3:	0.350	-0.431
	4:	-0.049	-0.459
X CENTROID: -0.152	5:	0.238	-1.477
Y CENTROID: -0.233	6:	-0.233	0.087
POA TO CENTROID: 0.279	7:	-0.122	0.557
HORZ SPREAD: 2.791	8:	-0.480	0.933
VERT SPREAD: 2.410	9:	-0.926	-0.293
GROUP SPREAD: 2.833	10:	-1.731	-0.314
MIN RADIUS: 0.248			
MAX RADIUS: 1.581			
MEAN RADIUS: 0.865			
# IN 1 IN DIAMETER: 2			
# IN 2 IN DIAMETER: 6			
# in 3 IN DIAMETER: 9			

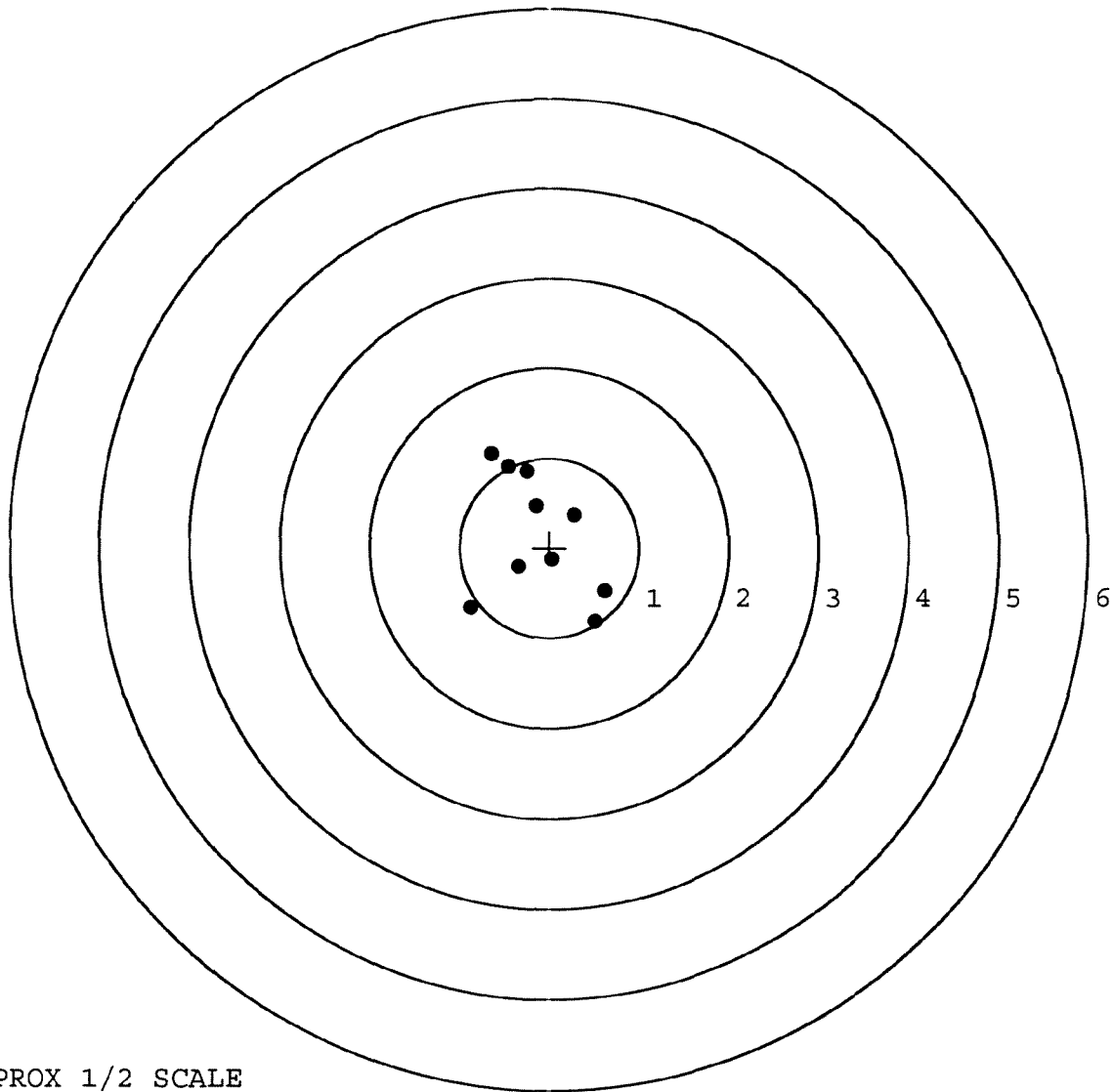


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225485. __0
TARGET NUMBER: 2
FILE DATE: 05/23/2008
FILE TIME: 05:37

POINT#	X	Y
1:	0.622	-0.483
2:	0.519	-0.824
3:	0.282	0.372
4:	0.028	-0.132
5:	-0.352	-0.207
6:	-0.874	-0.668
7:	-0.142	0.470
8:	-0.249	0.858
9:	-0.455	0.910
10:	-0.647	1.050

X CENTROID: -0.127
Y CENTROID: 0.135
POA TO CENTROID: 0.185
HORZ SPREAD: 1.496
VERT SPREAD: 1.874
GROUP SPREAD: 2.207
MIN RADIUS: 0.308
MAX RADIUS: 1.156
MEAN RADIUS: 0.738
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225485. 0

TARGET NUMBER: 3

FILE DATE: 05/23/2008

FILE TIME: 05:37

POINT#	X	Y
1:	1.091	-0.879
2:	0.631	-0.505
3:	-0.260	-1.221
4:	0.401	0.344
5:	-0.320	0.585
6:	-0.734	0.151
7:	-0.192	0.165
8:	-0.100	-0.256
9:	0.181	-0.063
10:	-0.137	-0.050

X CENTROID: 0.056

Y CENTROID: -0.173

POA TO CENTROID: 0.182

HORZ SPREAD: 1.825

VERT SPREAD: 1.806

GROUP SPREAD: 2.096

MIN RADIUS: 0.166

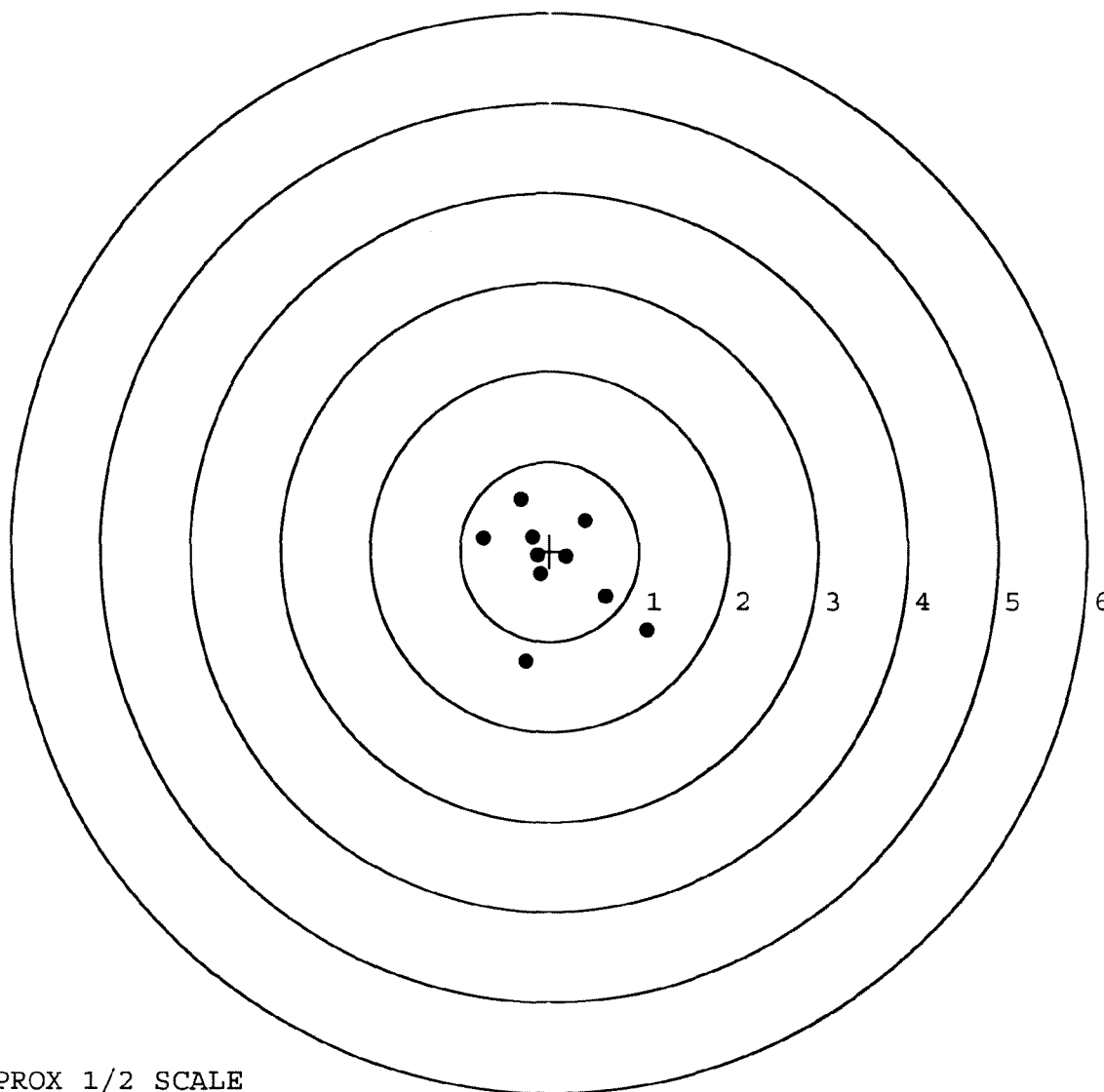
MAX RADIUS: 1.253

MEAN RADIUS: 0.632

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225485. __0

TARGET NUMBER: 4

FILE DATE: 05/23/2008

FILE TIME: 05:37

POINT#	X	Y
1:	-0.527	1.456
2:	0.379	0.402
3:	0.471	0.031
4:	0.294	0.019
5:	0.320	-0.143
6:	0.143	-0.338
7:	-0.246	-0.173
8:	-0.533	-0.417
9:	-0.297	-0.469
10:	-0.084	-0.314

X CENTROID: -0.008

Y CENTROID: 0.005

POA TO CENTROID: 0.010

HORZ SPREAD: 1.004

VERT SPREAD: 1.925

GROUP SPREAD: 1.939

MIN RADIUS: 0.297

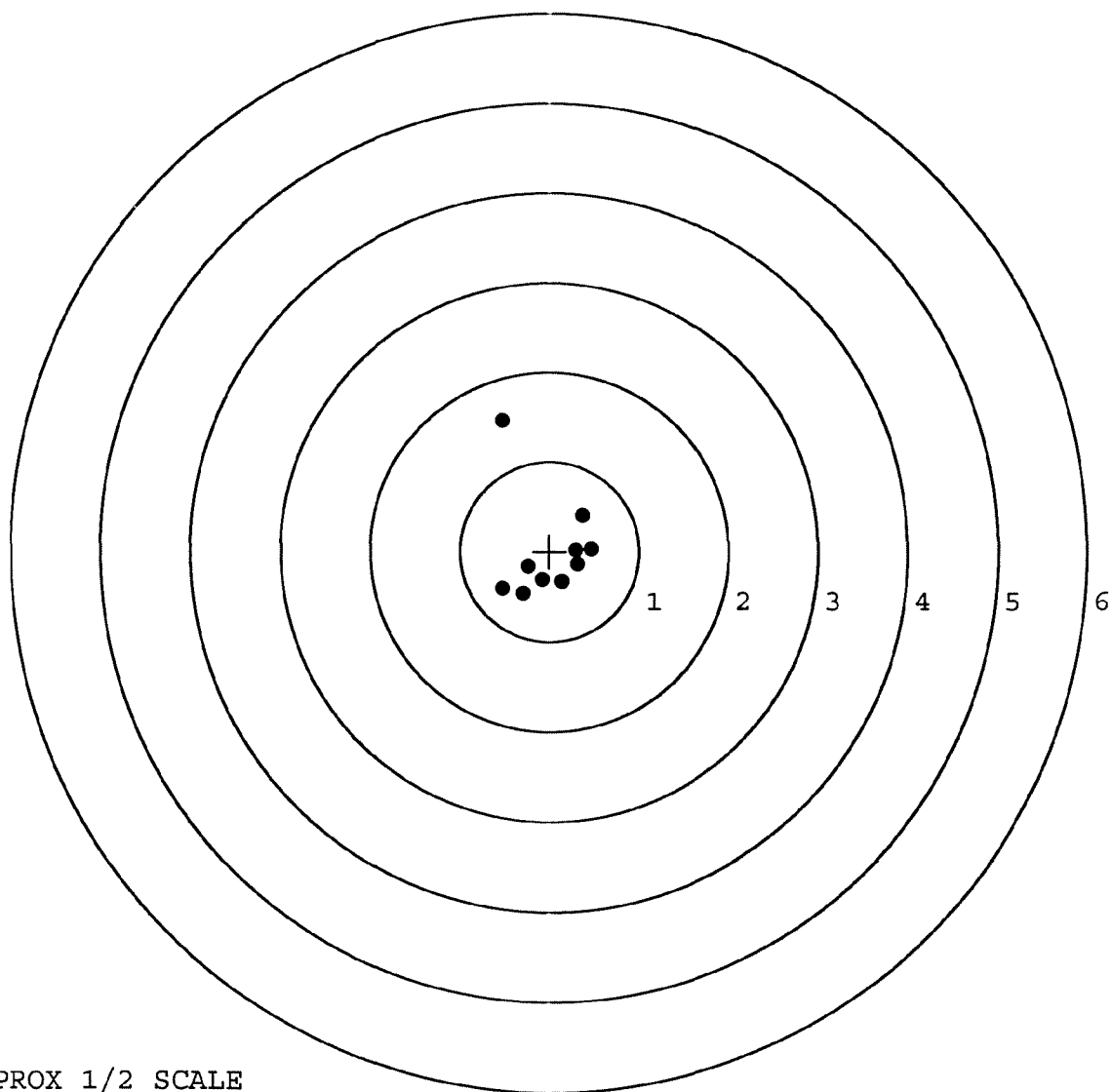
MAX RADIUS: 1.541

MEAN RADIUS: 0.547

IN 1 IN DIAMETER: 6

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 9

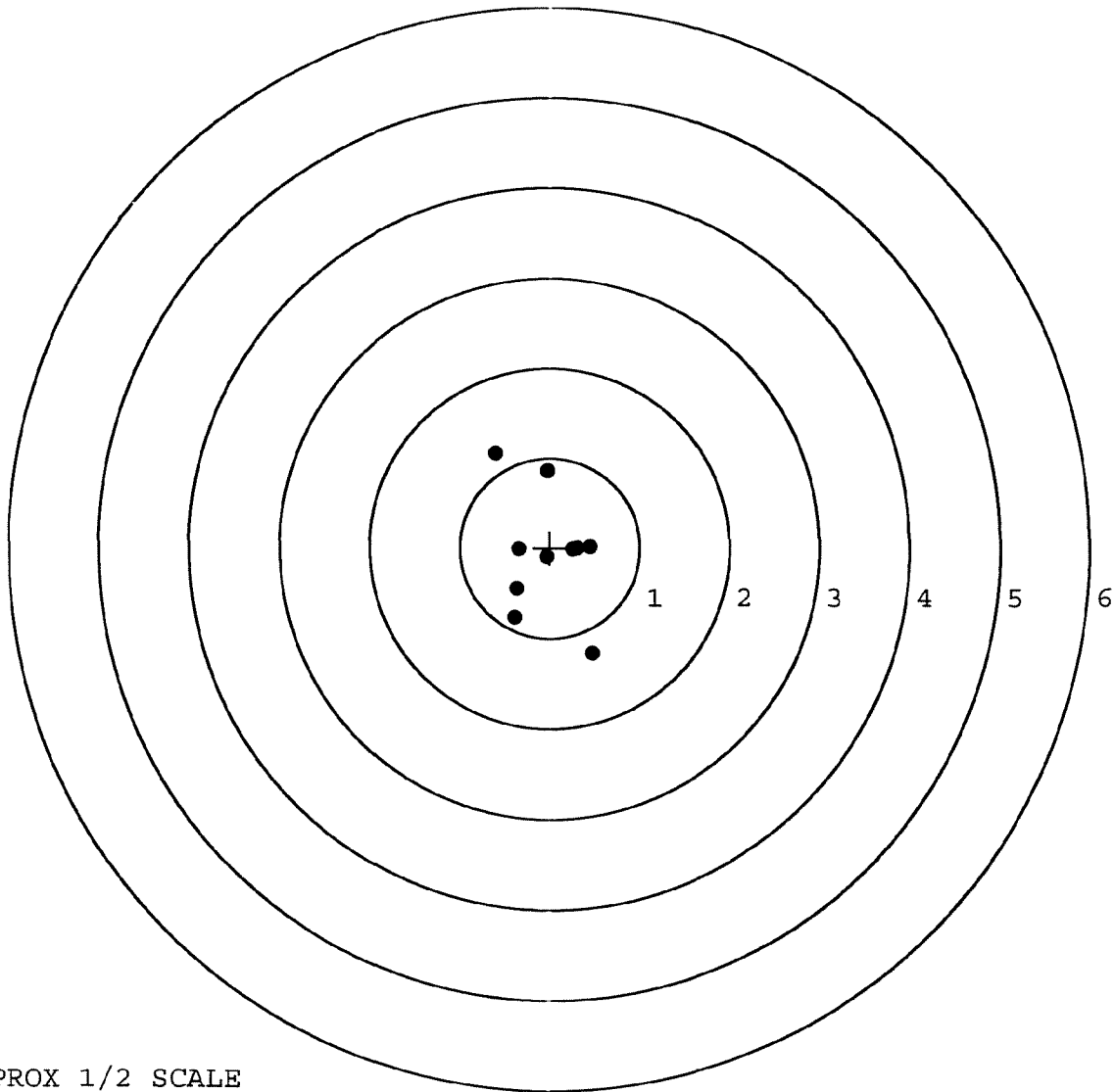


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225485. 0
TARGET NUMBER: 5
FILE DATE: 05/23/2008
FILE TIME: 05:37

POINT#	X	Y
1:	-0.021	0.856
2:	-0.604	1.053
3:	0.450	0.019
4:	0.313	-0.003
5:	-0.038	-0.105
6:	-0.349	-0.020
7:	-0.372	-0.459
8:	-0.392	-0.778
9:	0.480	-1.173
10:	0.256	-0.014

X CENTROID: -0.028
Y CENTROID: -0.062
POA TO CENTROID: 0.068
HORZ SPREAD: 1.084
VERT SPREAD: 2.226
GROUP SPREAD: 2.476
MIN RADIUS: 0.044
MAX RADIUS: 1.255
MEAN RADIUS: 0.621
IN 1 IN DIAMETER: 5
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

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

R & E NUMBER 144823
SERIAL NUMBER C6223485
LOG-IN DATE 4-24-08

OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	4-28-08	RJR
505	RE-BARREL		
560	ASSEMBLE	4-30-08	TRW
600	PROOF	4-30-08	TRW
605	CHECK HEADSPACE	4-30-08	TRW
610	DIS-ASSEMBLE GUN	4-30-08	TRW
612	MAGNAFLUX	5/1/08	WMB
510	DRILL AND TAP	5-1-08	TRW
615	ROLLMARK CALIBER	5-1-08	CW
618	ROTO-BLAST	5-1-08	DS
620	APPLY COATINGS	5-5-08	WMB
625	FINAL ASSEMBLY	5-9-08	RJR
640	FUNCTION TEST AND	5-22-08	SD
650	TARGET	5-22-08	SD
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION	5-22-08	RP
	A) HEADSPACE	5/27/08	FM
		5/27/08	FM
	BI) TRIGGER PULL	2.77 2.84 2.74 2.69 2.74	5/27/08 FM
680	FI) SAFETY ON FORCE	4- 4- 4-	5/27/08 FM
	GI) SAFETY OFF FORCE	2.5 2.5 2.5	5/27/08 FM
	I) FIRING PIN INDENT	.021 .021 .020	5/27/08 FM
690	PACK	5/29/08	FM

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: **RE00092436** Serial: C6225485 Model: M24 SWS Center Fire Caliber: 7.62 NATO Produced: 06/21/1989 Repairman: Status: Closed 2/3/2005 1:25:35 PM

Verify Repair

Address Information

Customer: ☒ Received From: Return To: ☐ Received From

Name: DEF DIST DEPOT ANNISTON DEF DIST DEPOT ANNISTON

Address 1: Address 2: PO Box: PO Box:

City: ANNISTON ANNISTON

State: AL Zip Code: 362014199 Country: US State: AL Zip Code: 362014199 Country: US

FFL: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Contact / Condition Problems Estimate History / Status Shipping / Billing

Contact Information: Phone: Fax: Email: Comments:

Received Condition: Good 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 2/7/2005 10:42 AM CAPS NUM INS SCRL

start 3 2

Serial Number: **C6225485**

Model: **M24 SWS**



RE00092436

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

8-11-05

TESTER

TRW

	2.50 LBS INITIAL	2.50 LBS AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50 LBS	COMMENTS
PULL #1	2.32	2.28	2.12	
PULL #2	2.18	2.30	2.37	
PULL #3	2.21	2.36	2.38	
PULL #4	2.24	2.49	2.28	
PULL #5	2.37	2.22	2.41	
TOTAL	11.32	11.65	11.56	
AVERAGE	2.26	2.33	2.31	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES	COMMENTS
PULL #1	3.28	3.09	
PULL #2	3.20	3.15	
PULL #3	3.06	3.18	
PULL #4	3.01	3.15	
PULL #5	3.03	3.21	
TOTAL	15.58	15.78	
AVERAGE	3.11	3.15	

	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	4.39	4.37		4.69
PULL #2	4.40	4.18		4.56
PULL #3	4.35	4.44		4.55
PULL #4	4.25	4.45		4.56
PULL #5	4.44	4.41		4.52
TOTAL	21.83	21.85		22.88
AVERAGE	4.36	4.37		4.57

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6225485.__0
FILE DATE AND TIME: 09/06/2005 06:54

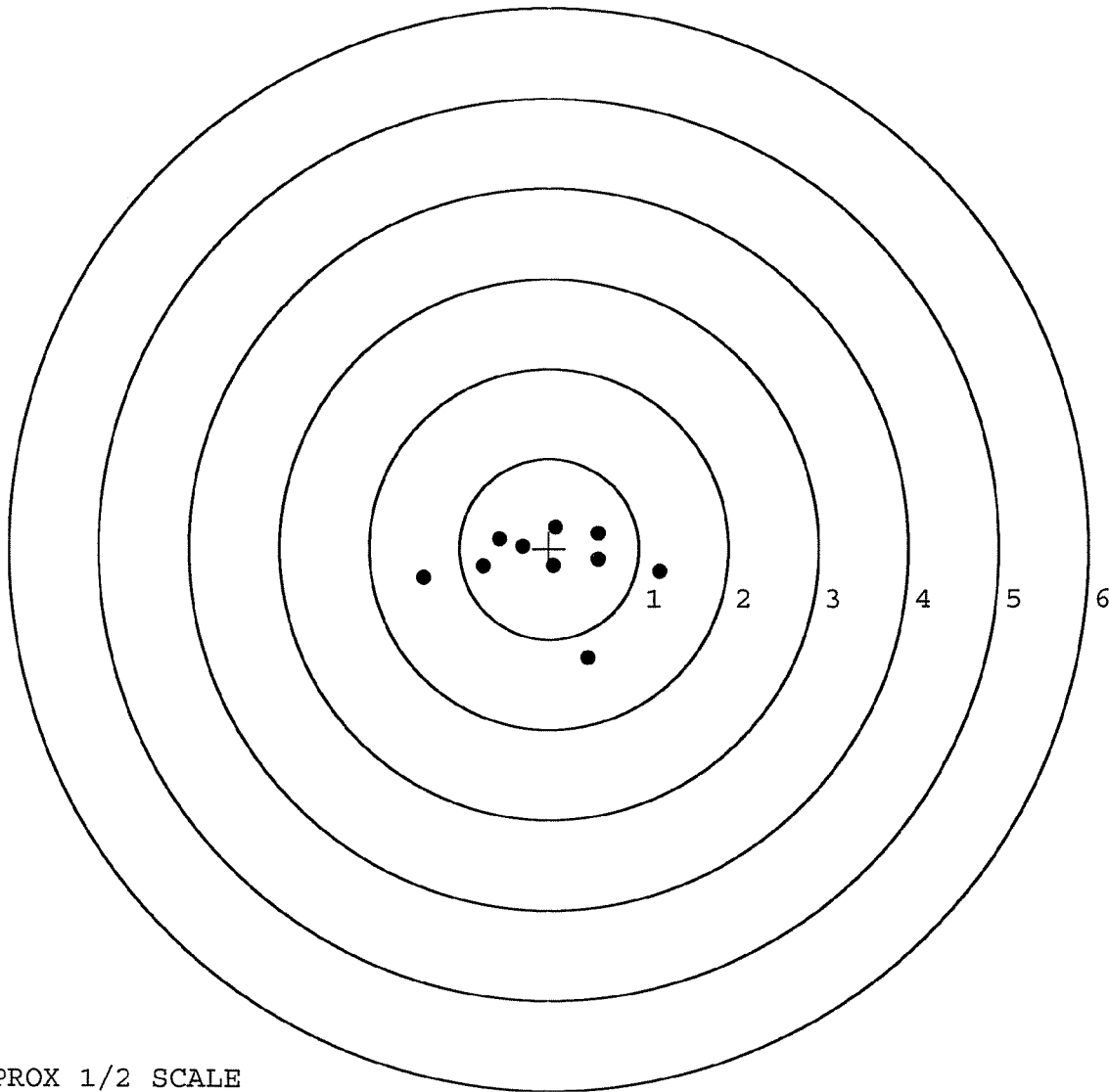
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.087
The Average Y Centroid of the Five Target Set:	-0.014
The Average Point of Impact of the Five Target Set:	0.088
The Average Mean Radius of the Five Target Set:	0.871
The Distance from POA to Centroid Target #1:	0.179
The Distance from Centroid Target #2 to Centroid Target #1:	0.308
The Distance from Centroid Target #3 to Centroid Target #1:	0.235
The Distance from Centroid Target #4 to Centroid Target #1:	0.183
The Distance from Centroid Target #5 to Centroid Target #1:	0.329

SERIAL NUMBER: C6225485.___0
TARGET NUMBER: 1
FILE DATE: 09/06/2005
FILE TIME: 06:54

POINT#	X	Y
1:	0.434	-1.211
2:	1.232	-0.255
3:	0.552	-0.126
4:	0.550	0.167
5:	0.074	0.236
6:	0.050	-0.194
7:	-0.297	0.021
8:	-0.555	0.105
9:	-0.735	-0.203
10:	-1.395	-0.331

X CENTROID: -0.009
Y CENTROID: -0.179
POA TO CENTROID: 0.179
HORZ SPREAD: 2.627
VERT SPREAD: 1.447
GROUP SPREAD: 2.628
MIN RADIUS: 0.061
MAX RADIUS: 1.394
MEAN RADIUS: 0.716
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 10

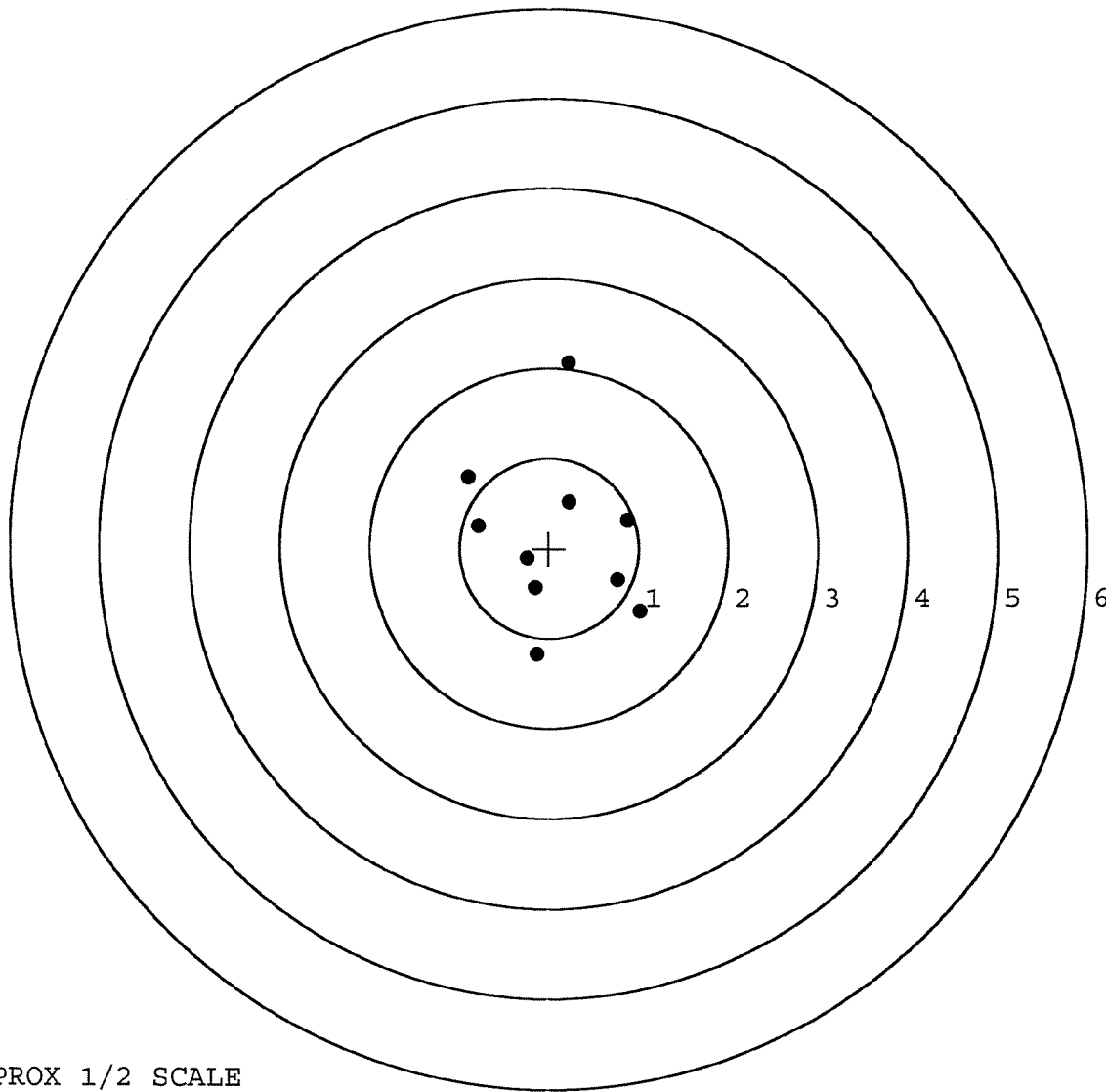


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225485.___0
TARGET NUMBER: 2
FILE DATE: 09/06/2005
FILE TIME: 06:54

POINT#	X	Y
1:	1.019	-0.703
2:	0.765	-0.356
3:	-0.139	-1.180
4:	-0.156	-0.444
5:	-0.244	-0.110
6:	0.876	0.319
7:	0.231	0.516
8:	-0.792	0.248
9:	-0.904	0.790
10:	0.222	2.056

X CENTROID: 0.088
Y CENTROID: 0.114
POA TO CENTROID: 0.144
HORZ SPREAD: 1.923
VERT SPREAD: 3.236
GROUP SPREAD: 3.256
MIN RADIUS: 0.400
MAX RADIUS: 1.947
MEAN RADIUS: 0.966
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 6
in 3 IN DIAMETER: 9

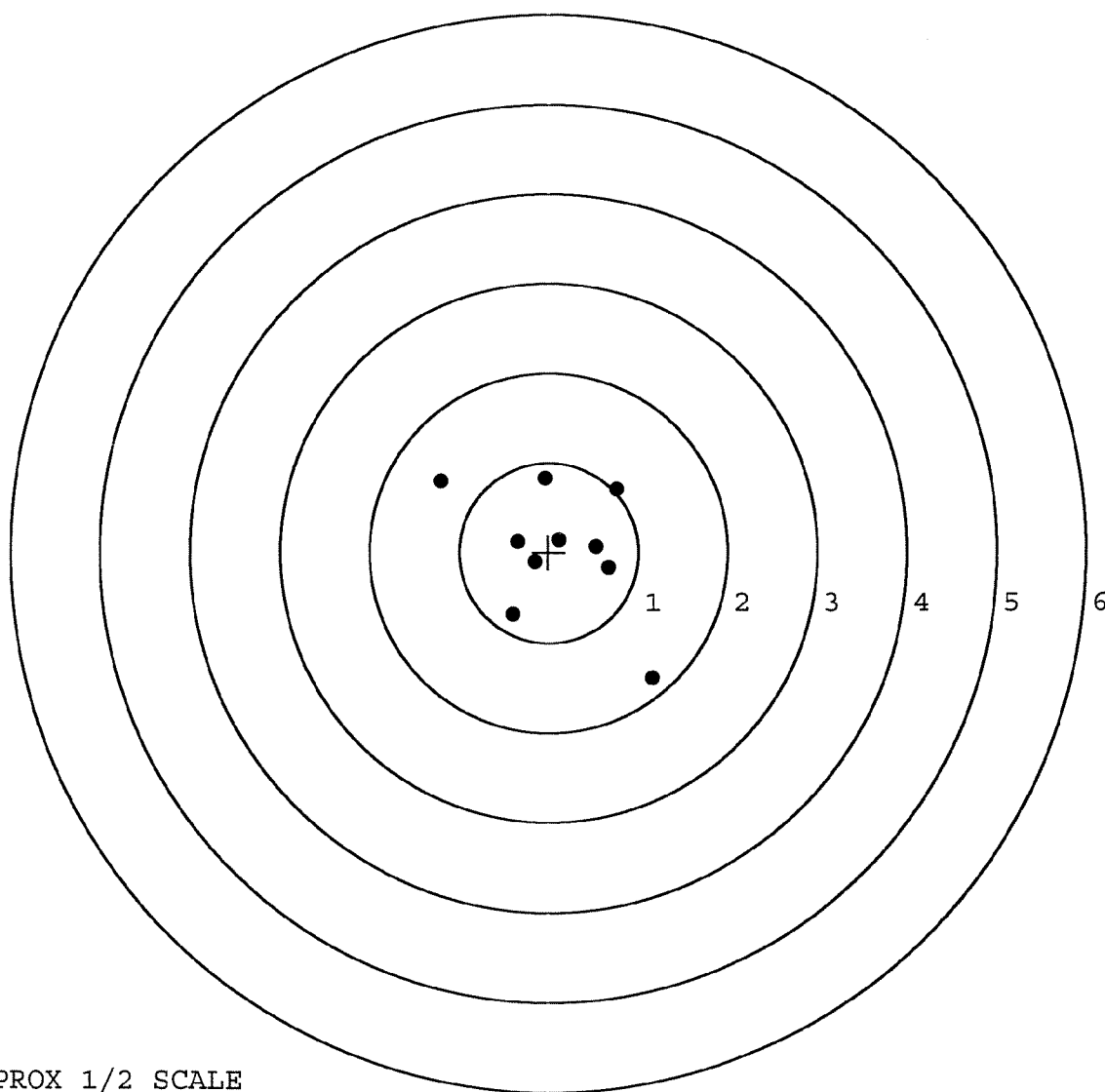


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225485. __0
TARGET NUMBER: 3
FILE DATE: 09/06/2005
FILE TIME: 06:54

POINT#	X	Y
1:	1.154	-1.394
2:	-0.406	-0.692
3:	0.667	-0.172
4:	0.527	0.062
5:	0.120	0.137
6:	0.760	0.702
7:	-0.046	0.821
8:	-0.154	-0.110
9:	-0.352	0.117
10:	-1.211	0.788

X CENTROID: 0.106
Y CENTROID: 0.026
POA TO CENTROID: 0.109
HORZ SPREAD: 2.365
VERT SPREAD: 2.215
GROUP SPREAD: 3.218
MIN RADIUS: 0.112
MAX RADIUS: 1.765
MEAN RADIUS: 0.781
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 8

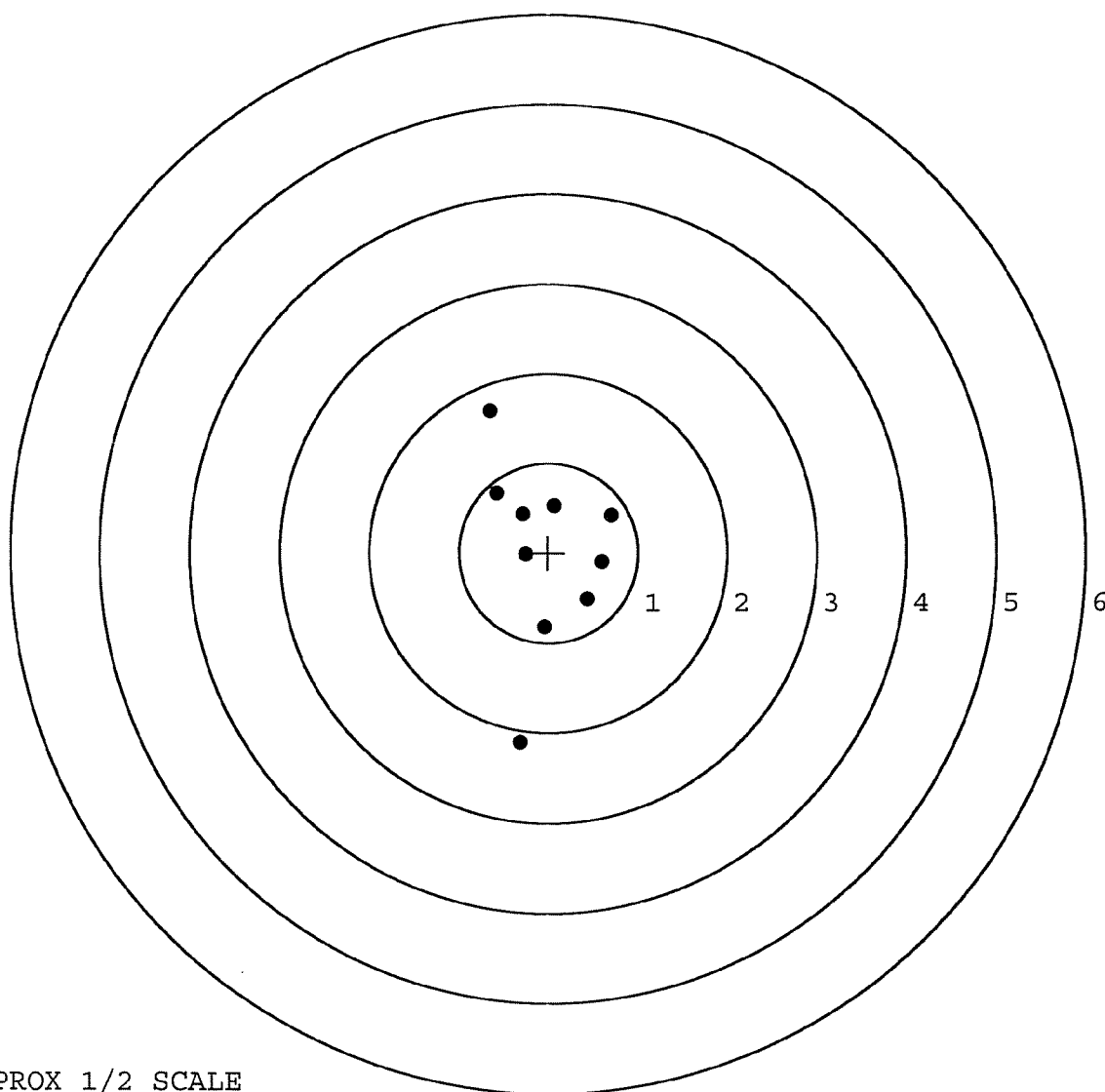


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225485. __0
TARGET NUMBER: 4
FILE DATE: 09/06/2005
FILE TIME: 06:54

POINT#	X	Y
1:	-0.317	-2.114
2:	-0.046	-0.833
3:	0.436	-0.520
4:	0.596	-0.106
5:	0.702	0.417
6:	0.068	0.525
7:	-0.257	-0.026
8:	-0.289	0.428
9:	-0.580	0.664
10:	-0.654	1.584

X CENTROID: -0.034
Y CENTROID: 0.002
POA TO CENTROID: 0.034
HORZ SPREAD: 1.356
VERT SPREAD: 3.698
GROUP SPREAD: 3.713
MIN RADIUS: 0.225
MAX RADIUS: 2.135
MEAN RADIUS: 0.897
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 8

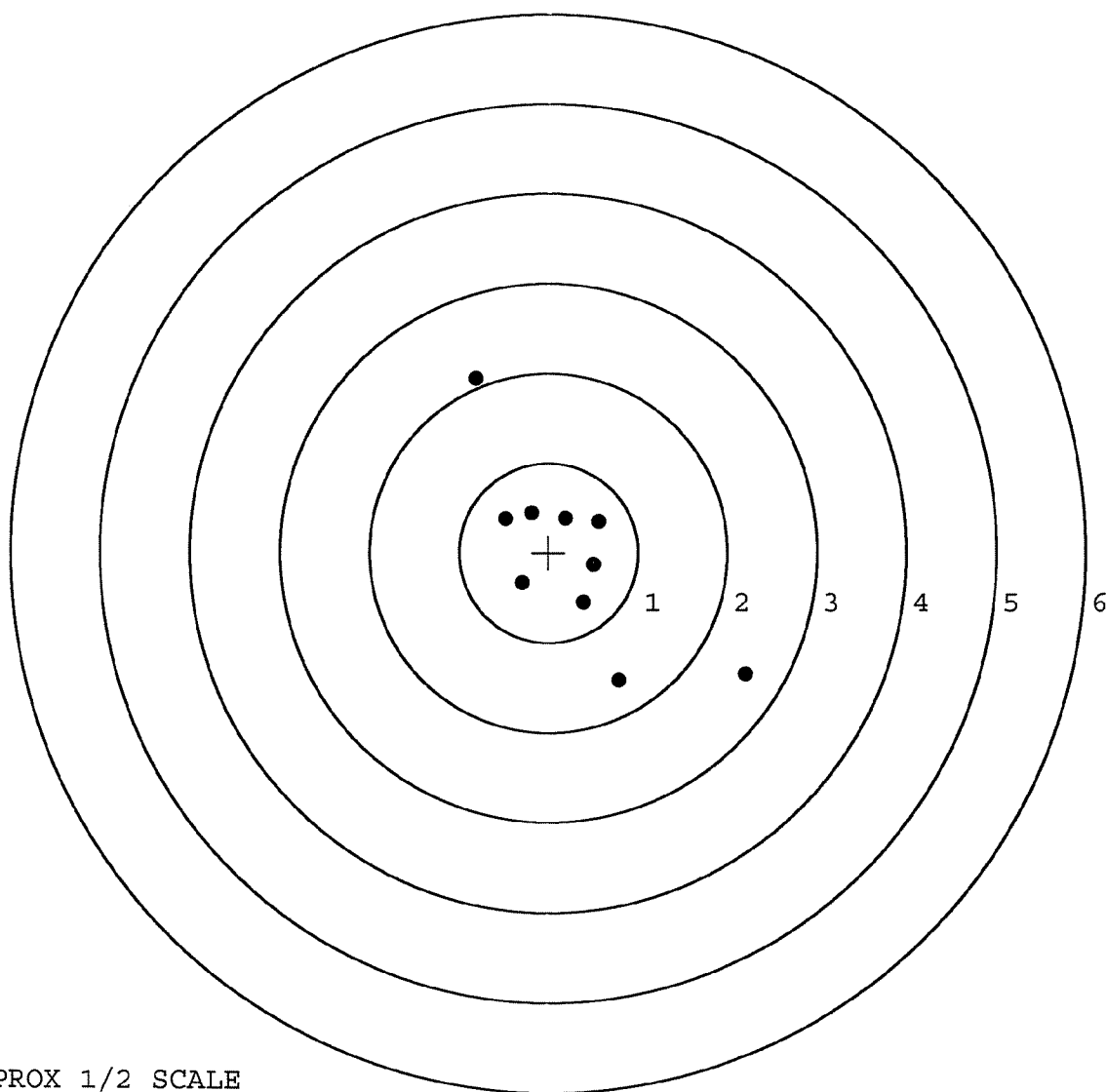


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225485. __0
TARGET NUMBER: 5
FILE DATE: 09/06/2005
FILE TIME: 06:54

POINT#	X	Y
1:	2.208	-1.352
2:	-0.819	1.939
3:	0.564	0.347
4:	0.188	0.382
5:	-0.191	0.445
6:	-0.483	0.376
7:	-0.296	-0.345
8:	0.397	-0.558
9:	0.500	-0.137
10:	0.792	-1.422

X CENTROID: 0.286
Y CENTROID: -0.032
POA TO CENTROID: 0.288
HORZ SPREAD: 3.027
VERT SPREAD: 3.361
GROUP SPREAD: 4.471
MIN RADIUS: 0.238
MAX RADIUS: 2.331
MEAN RADIUS: 0.995
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 8



TARGET APPROX 1/2 SCALE

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

R & E NUMBER	92436		
SERIAL NUMBER	CL225485		
LOG-IN DATE	2-3-05		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	8-12-05	RTU
560 A	RE-BARREL	8-23-05	RTU
B	DRILL AND TAP	8-24-05	RTU
575	ASSEMBLE	8-25-05	TRW
600	PROOF	8-24-05	AC
605	CHECK HEADSPACE	8-24-05	AC
610	DIS-ASSEMBLE GUN	8-25-05	RTU
612	MAGNAFLUX	8-25-05	TRW
615	ROLLMARK CALIBER	8-25-05	CW
618	ROTO-BLAST	8-26-05	CB
620	APPLY COATINGS	8/29/05	TRW
625 A	FINAL ASSEMBLY	8-31-05	RTU
B	TRIGGER PULL TEST	9-7-05	AC
C	SAFETY "ON" FORCE	9-7-05	AC
D	SAFETY "OFF" FORCE	9-7-05	AC
E	FIRING PIN INDENT	9-7-05	AC
640	TARGET	9-6-05	TRW
655	FINAL INSPECT	9-10-05	TRW
660	PACK	9-10-05	DA
		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 TM M24 MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada. Marque Deposee.	SERIAL NO. C6225485
	ORDER NO. 5716



5716 C6225485

UPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6225485

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	QUALITY AUDIT	4 4 89	RW
600	Proof		4 4 89	RW
607	Check Headspace		4 4 89	RW
610	Dis-assemble Gun		4 4 89	RW
612	Magnaflux Barrel Action		4-6 89	KCR
	Magnaflux Bolt		4-7 89	KCR
615	Rollmark Caliber		4-7 89	G.S.
617	Drill and Tap Sight Holes		4 7 89	FB
618	Polish Barrel		4 7 89	BT
620	Apply Coatings (Barrel Action)		4-19-89	TSA
	Apply Coating (Bolt)			
625	Final Assembly			
	A) Clean inside of Bolt Assembly		4/24/89	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		4/24/89	RW
	C) Inspect Ejector Hole for Chamfer		4/24/89	RW
	D) Oil Firing Pin Ass'y		4/24/89	RW
	E) Adjust Trigger Pull to Min Setting and Stake		4/24/89	G.S.

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	6	6	6			4/24/89	JY
	G) Safety Off Force	3	3	3			4/24/89	JY
	H) Trigger Pull Test & Retainability						4/26/89	S.S.
	I) Firing Pin Indent	.020	.020	.020			4/26/89	JY
	J) Assemble Stock						4/28/89	RW
	K) Assemble Swivel Studs						16 May 89	JS
	L) Attach Front and Rear Sight Assemblies						4/28/89	RW
	M) Iron Sight Alignment						4/28/89	RW
	N) Detach Front & Rear Sights & place in numbered container						4/28/89	RW
	O) Attach Scope to Rifle						4/28/89	WB
	P) Detach & Attach Scope 20 Times						4/28/89	WB
640	Gallery Target & Test	61 R	91 L				5/1/89	A
	A) Time						5/1/89	A
	B) Malfunctions						5/1/89	A
	C) Pierced Primers						5/1/89	A
	D) Optical Clarity of Scope						5/1/89	A
645	Inspect for Live Ammo						5/1/89	A
655	Final Inspection							
	A) Headspace						16 May 89	JS
	B) Trigger Pull	2.13	2.16	2.02	2.02	2.15	16 May 89	JS
	C) Function						16 May 89	JS
660	Pack						27 June 89	JS

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

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

SERIAL NO. C6225485

DATE 3-29-90

TESTER _____

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.60	2.41		2.33	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.39	2.53		2.25	
PULL #3	2.25	2.48		2.35	
PULL #4	2.35	2.34		2.31	
PULL #5	2.37	2.39		2.32	
TOTAL	11.96	11.87		11.56	
AVG.	2.392	2.374		2.312	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.20	3.22		
PULL #2	3.50	3.22		
PULL #3	3.25	3.21		
PULL #4	3.26	3.16		
PULL #5	3.22	3.15		
TOTAL	16.43	15.96		
AVG.	3.286	3.192		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.39	4.28		
PULL #2	4.42	4.33		
PULL #3	4.37	4.36		
PULL #4	4.24	4.26		
PULL #5	4.38	4.34		
TOTAL	21.72	21.57		
AVG.	4.344	4.314		

92-7

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06225485
1 May 1989

CENTROIDAL DISTANCES

0 TO	1	1.09298
1 TO	2	.323785
1 TO	3	1.21111
1 TO	4	1.1193
1 TO	5	.975025

$\frac{5}{4} \sigma_1$ <----FOR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .387
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .1454
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .413413
THE RMR FOR THIS RIFLE IS: 1.128

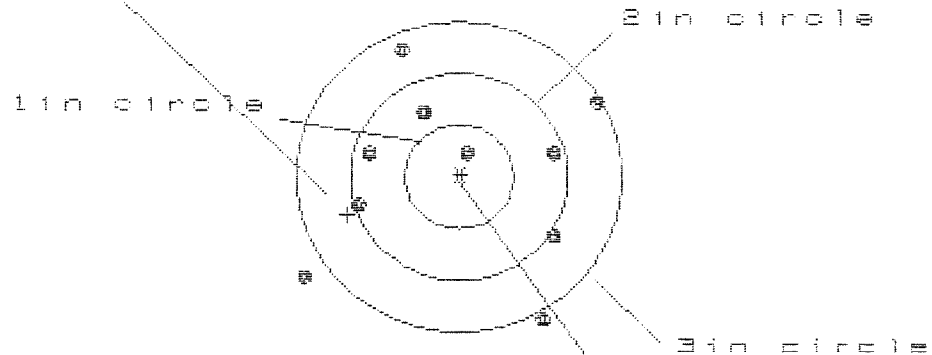
1 May 1985

FILE:/PATTERNING/CENTERFIRE_PATT/C82254B5

CENTERFIRE PATTERNS

1

POA



OF SHOTS = 10

IN CIR

1 in = 1

2 in = 5

3 in = 8

HS = 2.673

VS = 2.577

GS = 3.173

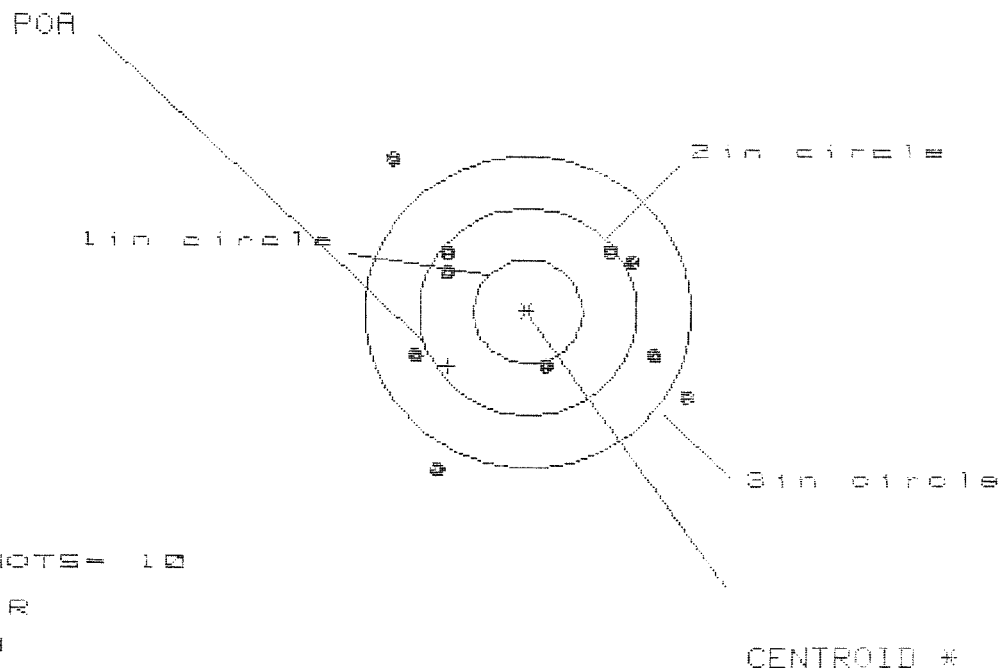
CENTROID #

PATTERN #	:	1	2	3
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.294	1.141	1.223
MINIMUM X	:	-1.379	-1.052	-1.970
MAXIMUM Y	:	1.200	1.093	.907
MINIMUM Y	:	-1.377	-1.484	-1.826
CENTROID X	:	1.027	1.180	1.098
CENTROID Y	:	.374	.481	.667
POA TO CENTROID in.	:	1.093	1.275	1.284
MIN RADIUS	:	.225	.161	.077
MEAN RADIUS	:	1.069	.982	.866
MAX RADIUS	:	1.680	1.624	1.306
HORIZONTAL SPREAD	:	2.673	2.193	2.193
VERTICAL SPREAD	:	2.577	2.577	1.733
EXTREME SPREAD	:	3.173	2.887	2.437
NUMBER IN ONE INCH CIRCLE =	:	1		
NUMBER IN TWO INCH CIRCLE =	:	5		
NUMBER IN THREE INCH CIRCLE =	:	8		

1 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/06225485

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1 in = 0

2 in = 3

3 in = 7

HS= 2.610

VS= 3.016

GS= 3.474

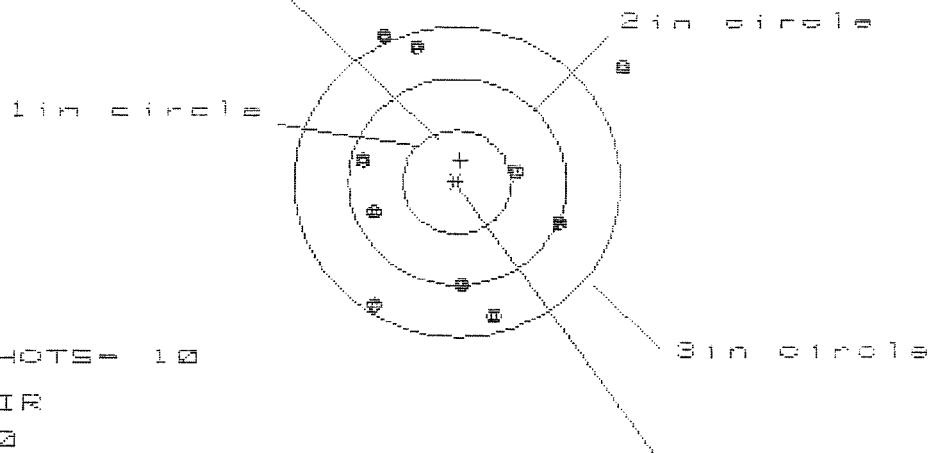
PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.417	1.284	1.166
MINIMUM X	:	-1.193	-1.157	-1.275
MAXIMUM Y	:	1.497	.774	.605
MINIMUM Y	:	-1.519	-1.353	-.799
CENTROID X	:	.738	.871	.989
CENTROID Y	:	.520	.354	.523
FOR TO CENTROID in.	:	.903	.940	1.119
MIN RADIUS	:	.517	.326	.502
MEAN RADIUS	:	1.197	1.101	1.017
MAX RADIUS	:	1.914	1.651	1.413
HORIZONTAL SPREAD	:	2.610	2.441	2.441
VERTICAL SPREAD	:	3.016	2.127	1.404
EXTREME SPREAD	:	3.474	2.671	2.600
NUMBER IN ONE INCH CIRCLE =			0	
NUMBER IN TWO INCH CIRCLE =			3	
NUMBER IN THREE INCH CIRCLE =			7	

1 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C8225485

CENTERFIRE PATTERNS # 3

POA



OF SHOTS= 10

IN CIR

1 in = 0

2 in = 4

3 in = 8

HS= 2.374

VS= 2.726

GS= 3.216

PATTERN #	:	3	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.544	1.114	1.048
MINIMUM X	:	-.830	-.659	-.725
MAXIMUM Y	:	1.406	1.525	1.624
MINIMUM Y	:	-1.320	-1.201	-1.010
CENTROID X	:	-.034	-.205	-.139
CENTROID Y	:	-.210	-.329	-.520
POA TO CENTROID in.	:	.212	.388	.538
MIN RADIUS	:	.551	.577	.624
MEAN RADIUS	:	1.178	1.076	.985
MAX RADIUS	:	1.883	1.615	1.642
HORIZONTAL SPREAD	:	2.374	1.773	1.773
VERTICAL SPREAD	:	2.726	2.726	2.634
EXTREME SPREAD	:	3.216	2.916	2.720
NUMBER IN ONE INCH CIRCLE	=	0		
NUMBER IN TWO INCH CIRCLE	=	4		
NUMBER IN THREE INCH CIRCLE	=	8		

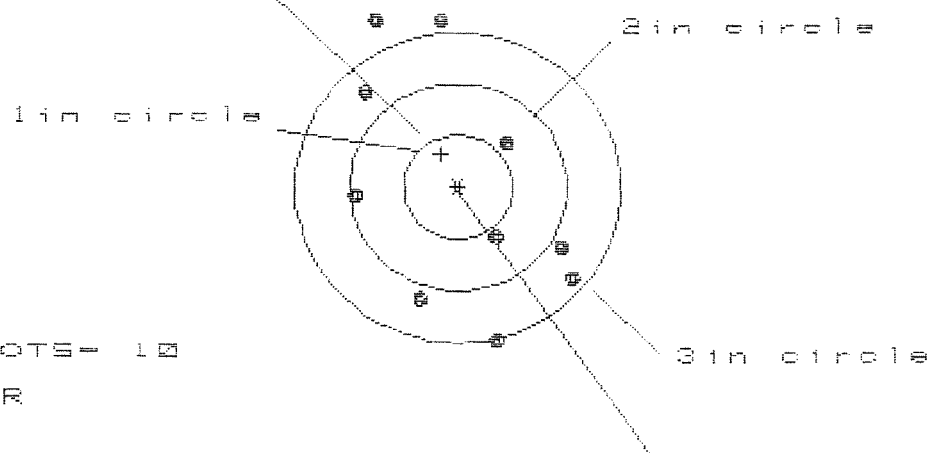
1 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/062254B5

CENTERFIRE PATTERNS

4

POA



OF SHOTS- 10

IN CIR

1in = 0

2in = 3

3in = 7

HS= 2.066

VS= 3.141

GS= 3.331

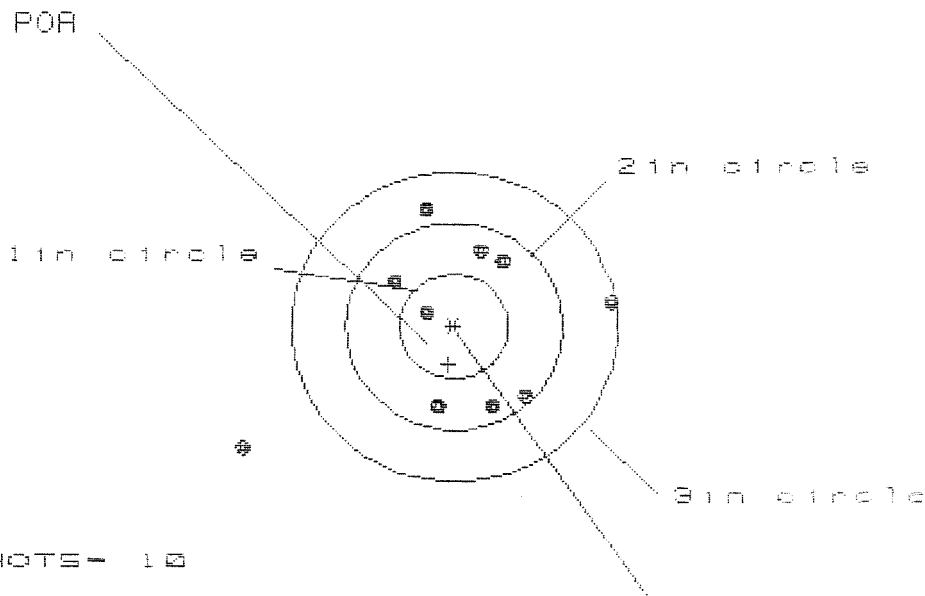
CENTROID *

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.077	.990	.958
MINIMUM X	:	-.989	-1.076	-1.108
MAXIMUM Y	:	1.627	1.791	1.314
MINIMUM Y	:	-1.514	-1.334	-1.110
CENTROID X	:	.152	.239	.271
CENTROID Y	:	-.324	-.504	-.728
POA TO CENTROID in.	:	.358	.558	.777
MIN RADIUS	:	.586	.388	.218
MEAN RADIUS	:	1.192	1.089	.955
MAX RADIUS	:	1.805	1.909	1.621
HORIZONTAL SPREAD	:	2.066	2.066	2.066
VERTICAL SPREAD	:	3.141	3.125	2.424
EXTREME SPREAD	:	3.331	3.164	2.686
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		7	

1 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/06225485

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1in = 1

2in = 7

3in = 8

HS= 3.440

VS= 2.305

GS= 3.710

CENTROID #

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.464	1.244	.542
MINIMUM X	:	-1.976	-1.790	-.634
MAXIMUM Y	:	1.181	1.056	1.074
MINIMUM Y	:	-1.124	-.938	-.920
CENTROID X	:	.052	.272	.116
CENTROID Y	:	.367	.492	.474
POA TO CENTROID in.	:	.371	.562	.488
MIN RADIUS	:	.251	.439	.284
MEAN RADIUS	:	1.006	.853	.781
MAX RADIUS	:	2.273	1.252	1.112
HORIZONTAL SPREAD	:	3.440	2.034	1.176
VERTICAL SPREAD	:	2.305	1.994	1.994
EXTREME SPREAD	:	3.710	2.070	2.070
NUMBER IN ONE INCH CIRCLE =			1	
NUMBER IN TWO INCH CIRCLE =			7	
NUMBER IN THREE INCH CIRCLE =			9	