

C6587559

MODEL 700TM N24

Model **SWS** TM

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

Remington[®] **DUPONT**
REG. U.S. PAT. & TM. OFF.

MODEL 700TM H24

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

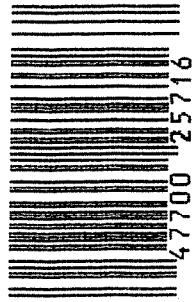
VERY IMPORTANT:
 Instruction Book
 enclosed to assure
 safe use of this
 firearm.

SERIAL NO. C6587559	ORDER NO. 5716
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5716 C6587559

UPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C 6587559

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		10/19/90	KA
600	Proof		10/19/90	KA
607	Check Headspace		10/19/90	KA
610	Dis-assemble Gun		10/19/90	KA
612	Magnaflux Barrel Action		10/22/90	KR
	Magnaflux Bolt		10/22/90	KR
615	Rollmark Caliber		10/22/90	LS
617	Drill and Tap Sight Holes		10/23/90	KB
618	Polish Barrel <i>RB</i>		10/24/90	WB
620	Apply Coatings (Barrel Action)		11/7/90	JA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		11/7/90	KS
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		11/7/90	KS
	C) Inspect Ejector Hole for Chamfer		11/7/90	KS
	D) Oil Firing Pin Ass'y		11/7/90	KS
	E) Adjust Trigger Pull to Min Setting and Stake		11/28/90	JA

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	5	5			11/28/90	WB
	G) Safety Off Force	2 1/4	2 1/4	2 1/4			11/28/90	WB
	H) Trigger Pull Test & Retainability						11/28/90	AL
	I) Firing Pin Indent	.0205	.0215	.021			11/28/90	WB
	J) Assemble Stock						11/29/90	KS
	K) Assemble Swivel Studs						12-4-90	928
	L) Attach Front and Rear Sight Assemblies						11/29/90	KS
	M) Iron Sight Alignment						11/29/90	KS
	N) Detach Front & Rear Sights & place in numbered container						11/29/90	KS
	O) Attach Scope to Rifle						11/29/90	KS
	P) Detach & Attach Scope 20 Times						11/29/90	KS
640	Gallery Target & Test						11/30/90	NF
	A) Time						"	NF
	B) Malfunctions						"	NF
	C) Pierced Primers						"	NF
	D) Optical Clarity of Scope						"	NF
645	Inspect for Live Ammo						11/30/90	NF
655	Final Inspection							
	A) Headspace						12-4-90	928
	B) Trigger Pull	293	293	294	284	292	12-4-90	928
	C) Function						12-4-90	928
660	Pack						12-9-90	DH

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS
2.50# ± .50#
3.00# ± .75#
4.00# ± 1.00#

SERIAL NO. C6587559
DATE 11-28-90
TESTER JR

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.25	2.22	2.36	293	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.31	2.58	2.30	293	
PULL #3	2.32	2.48	2.44	294	
PULL #4	2.24	2.11	2.40	284	
PULL #5	2.30	2.37	2.48	292	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.19	3.46		
PULL #2	3.19	3.48		
PULL #3	3.40	3.44		
PULL #4	3.48	3.50		
PULL #5	3.22	3.35		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.30	4.29		4.36
PULL #2	4.25	4.33		4.40
PULL #3	4.26	4.33		4.41
PULL #4	4.31	4.35		4.42
PULL #5	4.36	4.40		4.33
TOTAL				
AVG.				

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: **RE00092904** Serial: C6587559 Model: M24 SWS Center Fire
 Caliber: 7.62 NATO Produced: 12/19/1990

Repairman: [] Status: Closed 2/10/2005 11:39:11 AM

Address Information

Customer: ☒ Received From Return To: ☐ Receives From

Name: DEF DIST DEPOT ANNISTON DEF DIST DEPOT ANNISTON

Address 1: [] Address 2: [] PO Box: []

City: ANNISTON ANNISTON

State: AL AL Zip Code: 36201 4199 36201 4199 Country: US US

FIL [] [] [] [] [] [] [] []

Contact / Condition	Problems	Estimate	History / Status	Shipping / Billing																		
Contact Information Phone: [] Fax: [] Email: [] Comments: []	Received Condition Good Condition Notes: [] CSR Notes: []	Accessories Received <table border="1"> <thead> <tr> <th>Code</th> <th>Desc</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>A007</td> <td>With Stud</td> <td>3</td> </tr> <tr> <td>A010</td> <td>Hard Case</td> <td>1</td> </tr> <tr> <td>A017</td> <td>Scope Base</td> <td>1</td> </tr> <tr> <td>A026</td> <td>Scope</td> <td>1</td> </tr> <tr> <td>A057</td> <td>Frt and Rear Sgt Base</td> <td>1</td> </tr> </tbody> </table>			Code	Desc	Qty	A007	With Stud	3	A010	Hard Case	1	A017	Scope Base	1	A026	Scope	1	A057	Frt and Rear Sgt Base	1
Code	Desc	Qty																				
A007	With Stud	3																				
A010	Hard Case	1																				
A017	Scope Base	1																				
A026	Scope	1																				
A057	Frt and Rear Sgt Base	1																				

Repair Search Refresh Close

Taglet 2/14/2005 9:23 AM CAPS INUM INS SCPL

start 5 2 4 Arms Service

Serial Number: **C6587559**

Model: **M24 SWS**



RE00092904

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

6-28-05

TESTER

TRW

	2.50 LBS INITIAL	2.50 LBS AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50 LBS		COMMENTS
PULL #1	2.72	2.36		2.16	
PULL #2	2.62	2.40		2.20	
PULL #3	2.18	2.41		2.14	
PULL #4	2.19	2.45		2.09	
PULL #5	2.27	2.44		2.13	
TOTAL	11.98	12.06		10.72	
AVERAGE	2.39	2.41		2.14	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES		COMMENTS
PULL #1	3.29	3.41		
PULL #2	3.04	3.12		
PULL #3	3.33	3.41		
PULL #4	3.08	3.37		
PULL #5	3.00	3.11		
TOTAL	15.74	16.42		
AVERAGE	3.14	3.28		

	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	4.67	4.57		4.47
PULL #2	4.37	4.12		4.34
PULL #3	4.29	4.39		4.22
PULL #4	4.26	4.12		4.26
PULL #5	4.48	4.06		4.25
TOTAL	22.07	21.26		21.54
AVERAGE	4.41	4.25		4.30

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6587559.__0

FILE DATE AND TIME: 07/08/2005 06:40

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.012
The Average Y Centroid of the Five Target Set:	-0.054
The Average Point of Impact of the Five Target Set:	0.056
The Average Mean Radius of the Five Target Set:	0.764
The Distance from POA to Centroid Target #1:	0.083
The Distance from Centroid Target #2 to Centroid Target #1:	0.320
The Distance from Centroid Target #3 to Centroid Target #1:	0.126
The Distance from Centroid Target #4 to Centroid Target #1:	0.304
The Distance from Centroid Target #5 to Centroid Target #1:	0.128

SERIAL NUMBER: C6587559.___0

TARGET NUMBER: 1

FILE DATE: 07/08/2005

FILE TIME: 06:40

POINT#	X	Y
1:	1.113	0.009
2:	0.883	0.024
3:	0.478	0.511
4:	0.211	1.031
5:	-0.564	0.312
6:	-0.383	-0.525
7:	-0.276	-0.277
8:	0.028	-0.051
9:	-0.149	0.192
10:	-1.252	-0.399

X CENTROID: 0.009

Y CENTROID: 0.083

POA TO CENTROID: 0.083

HORZ SPREAD: 2.365

VERT SPREAD: 1.556

GROUP SPREAD: 2.400

MIN RADIUS: 0.135

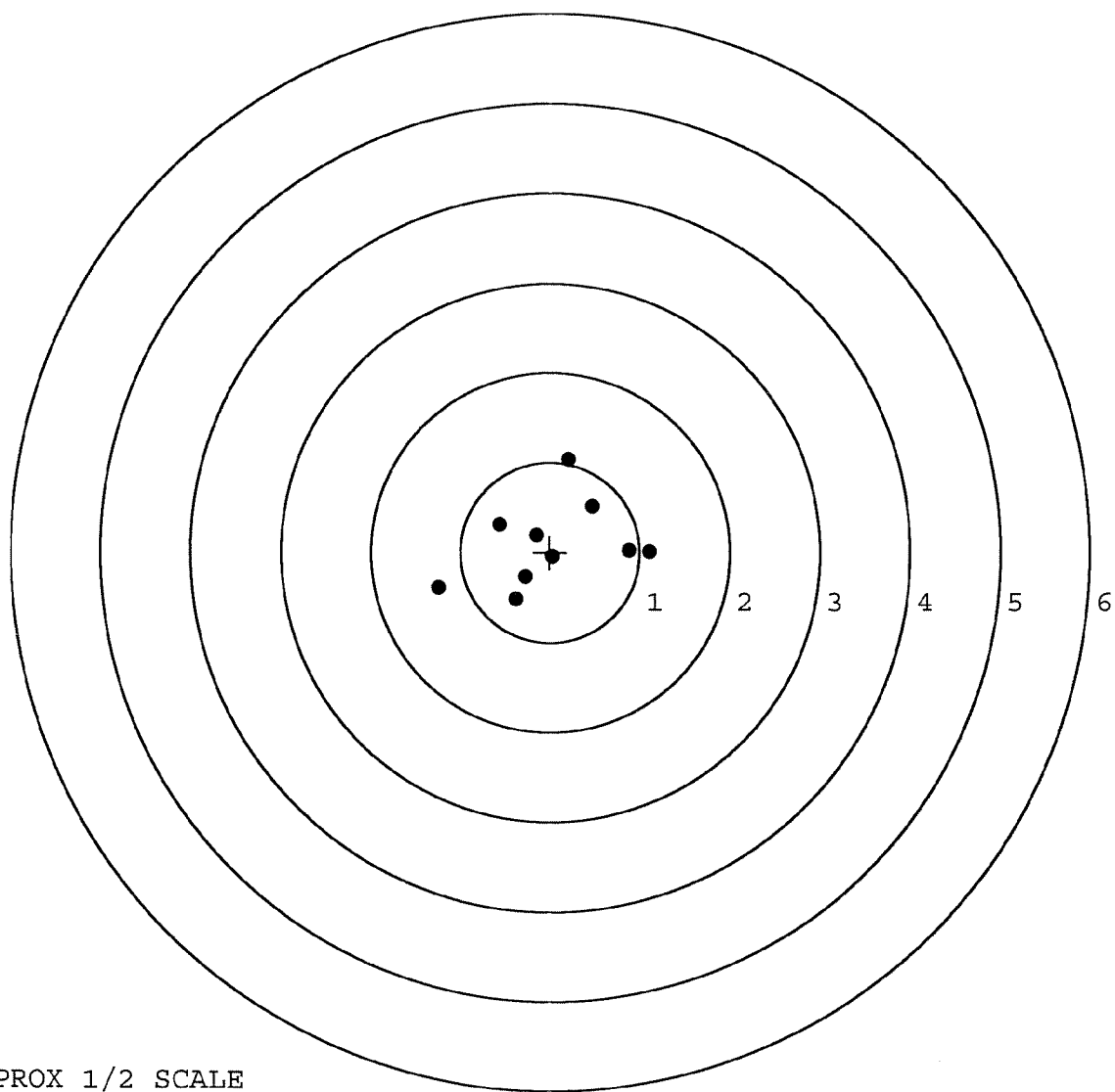
MAX RADIUS: 1.350

MEAN RADIUS: 0.706

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587559. __0

TARGET NUMBER: 2

FILE DATE: 07/08/2005

FILE TIME: 06:40

POINT#	X	Y
1:	1.743	0.125
2:	0.787	0.611
3:	0.889	-0.251
4:	0.406	-0.738
5:	0.251	-1.401
6:	-0.442	-0.689
7:	-0.217	-0.210
8:	-0.474	0.031
9:	-0.445	0.334
10:	0.028	0.947

X CENTROID: 0.253

Y CENTROID: -0.124

POA TO CENTROID: 0.281

HORZ SPREAD: 2.217

VERT SPREAD: 2.348

GROUP SPREAD: 2.332

MIN RADIUS: 0.477

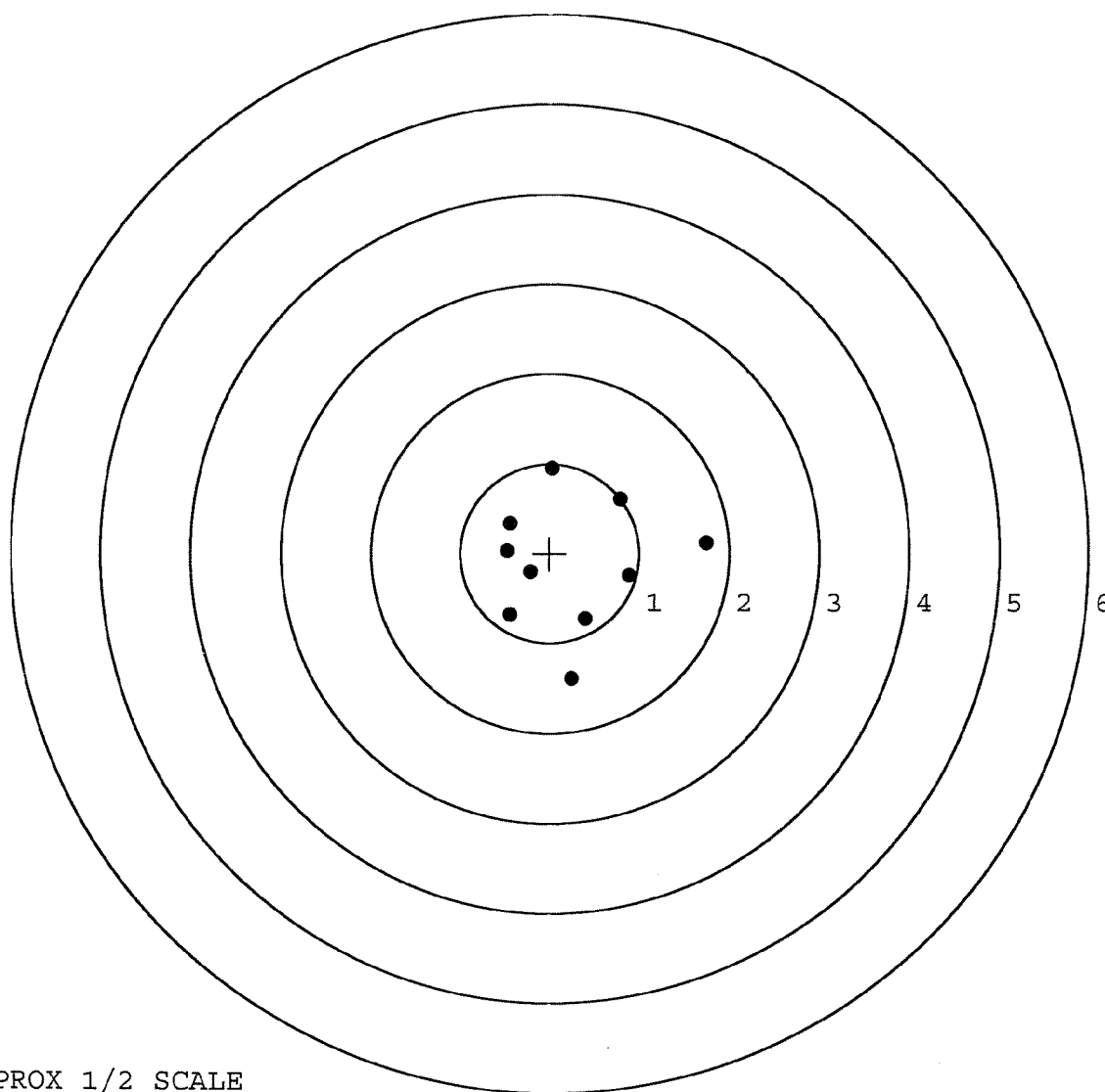
MAX RADIUS: 1.511

MEAN RADIUS: 0.902

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587559. __0

TARGET NUMBER: 3

FILE DATE: 07/08/2005

FILE TIME: 06:40

POINT#	X	Y
1:	1.460	0.202
2:	0.751	-0.730
3:	0.506	0.614
4:	0.274	0.104
5:	0.112	-0.017
6:	-0.328	0.013
7:	-0.559	-0.198
8:	-0.413	-0.084
9:	-0.816	-0.475
10:	-0.791	0.142

X CENTROID: 0.020

Y CENTROID: -0.043

POA TO CENTROID: 0.047

HORZ SPREAD: 2.276

VERT SPREAD: 1.344

GROUP SPREAD: 2.375

MIN RADIUS: 0.096

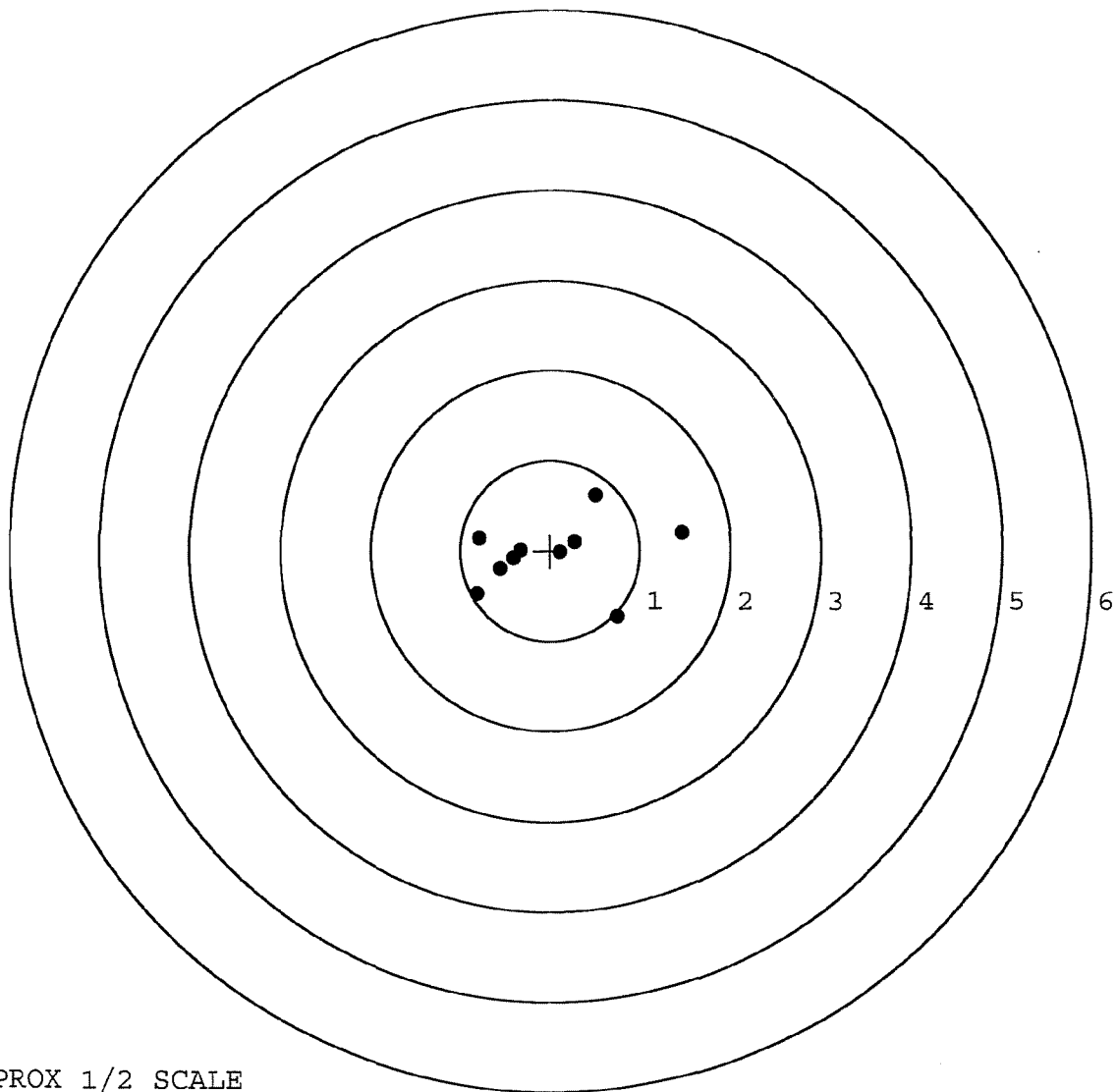
MAX RADIUS: 1.461

MEAN RADIUS: 0.683

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587559. __0

TARGET NUMBER: 4

FILE DATE: 07/08/2005

FILE TIME: 06:40

X CENTROID: -0.186

Y CENTROID: -0.150

POA TO CENTROID: 0.239

HORZ SPREAD: 1.965

VERT SPREAD: 2.095

GROUP SPREAD: 2.297

MIN RADIUS: 0.276

MAX RADIUS: 1.393

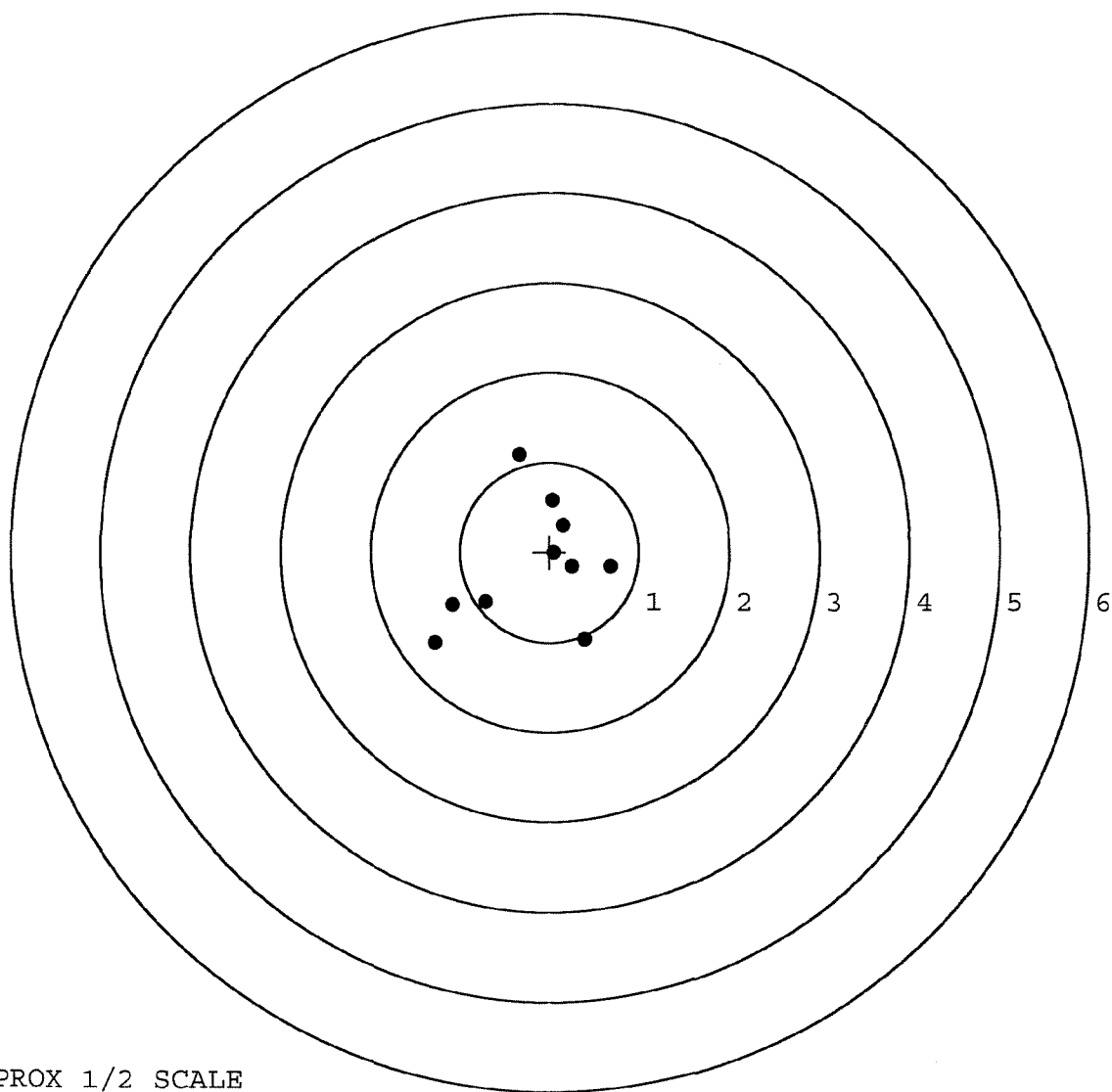
MEAN RADIUS: 0.820

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.394	-0.968
2:	0.683	-0.164
3:	0.255	-0.166
4:	0.052	-0.010
5:	0.028	0.575
6:	-0.341	1.086
7:	-0.714	-0.554
8:	0.150	0.295
9:	-1.081	-0.589
10:	-1.282	-1.009



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587559. __0

TARGET NUMBER: 5

FILE DATE: 07/08/2005

FILE TIME: 06:40

POINT#	X	Y
1:	1.073	0.094
2:	1.219	0.584
3:	0.206	0.389
4:	-0.223	0.189
5:	-0.867	-0.059
6:	-0.771	-0.478
7:	-1.198	-0.413
8:	0.329	-0.243
9:	0.084	-0.224
10:	-0.199	-0.214

X CENTROID: -0.035

Y CENTROID: -0.037

POA TO CENTROID: 0.051

HORZ SPREAD: 2.417

VERT SPREAD: 1.062

GROUP SPREAD: 2.615

MIN RADIUS: 0.221

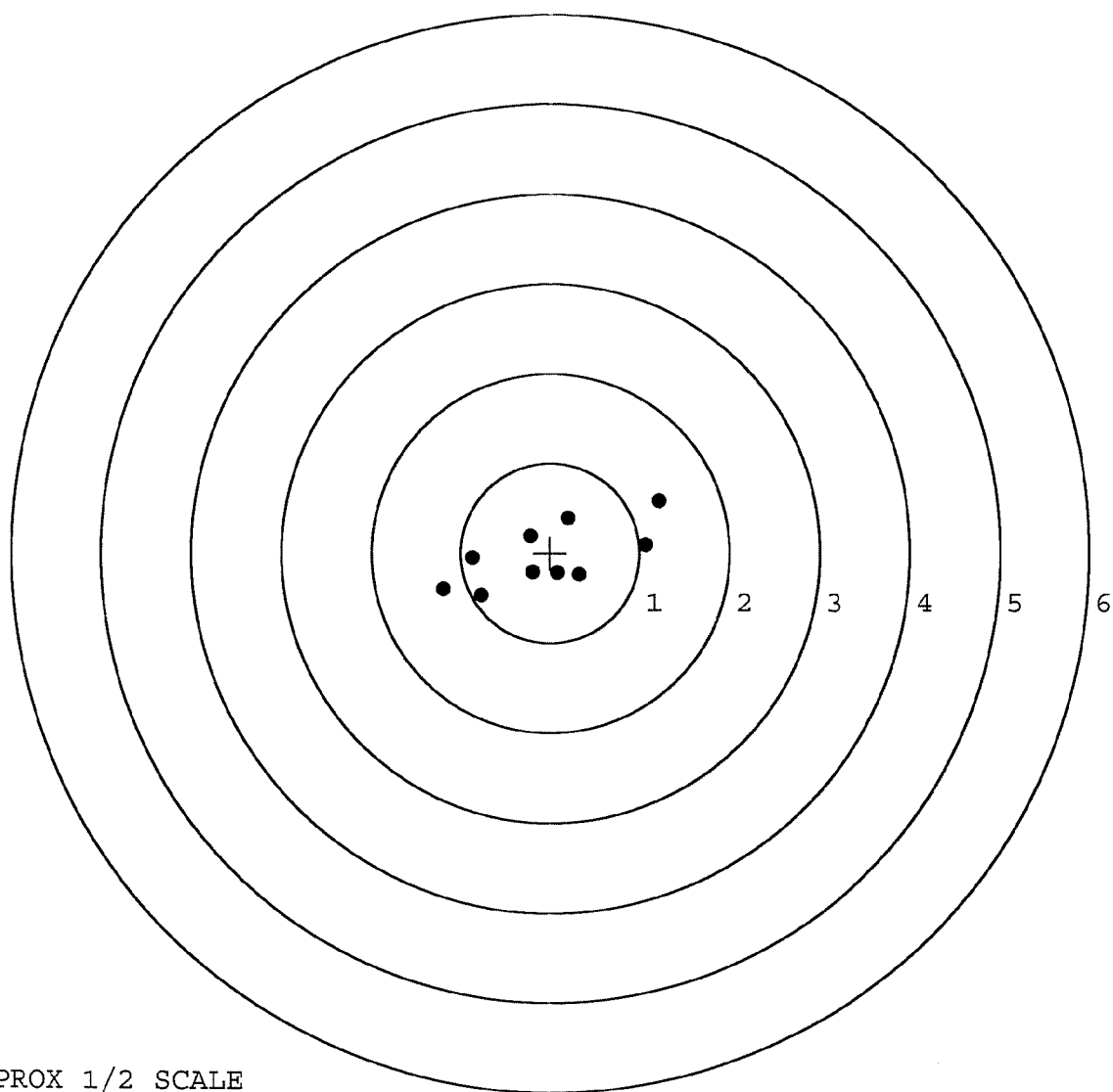
MAX RADIUS: 1.399

MEAN RADIUS: 0.709

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

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

R. & E NUMBER	92904		
SERIAL NUMBER	C6587359		
LOG-IN DATE	2-10-05		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	6-1-05	RTZ
560 A	RE-BARREL	6-6-05	RTZ
B	DRILL AND TAP	6-8-05	TRW
575	ASSEMBLE	6-6-05	RTZ
600	PROOF	6-7-05	AC
605	CHECK HEADSPACE	6-7-05	AC
610	DIS-ASSEMBLE GUN	6-7-05	RTZ
612	MAGNAFLUX	6/9/05	uncl
615	ROLLMARK CALIBER	6-9-05	CW
618	ROTO-BLAST	6-10-05	LB
620	APPLY COATINGS	6-13-05	WZ
625 A	FINAL ASSEMBLY	6-30-05	RTZ
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE	7-13-05	AC
D	SAFETY "OFF" FORCE	7-13-05	AC
E	FIRING PIN INDENT	7-13-05	AC
640	TARGET	7-8-05	TRW
655	FINAL INSPECT	7-13-05	AC
660	PACK	9-6-05	RTA
		SHIP DATE	
		QAR INSPECTION DATE	

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6587559
30 Nov 1990

CENTROIDAL DISTANCES

0 TO	1	.487594
1 TO	2	.327055
1 TO	3	.414849
1 TO	4	.41731
1 TO	5	.420621

12 <----POA

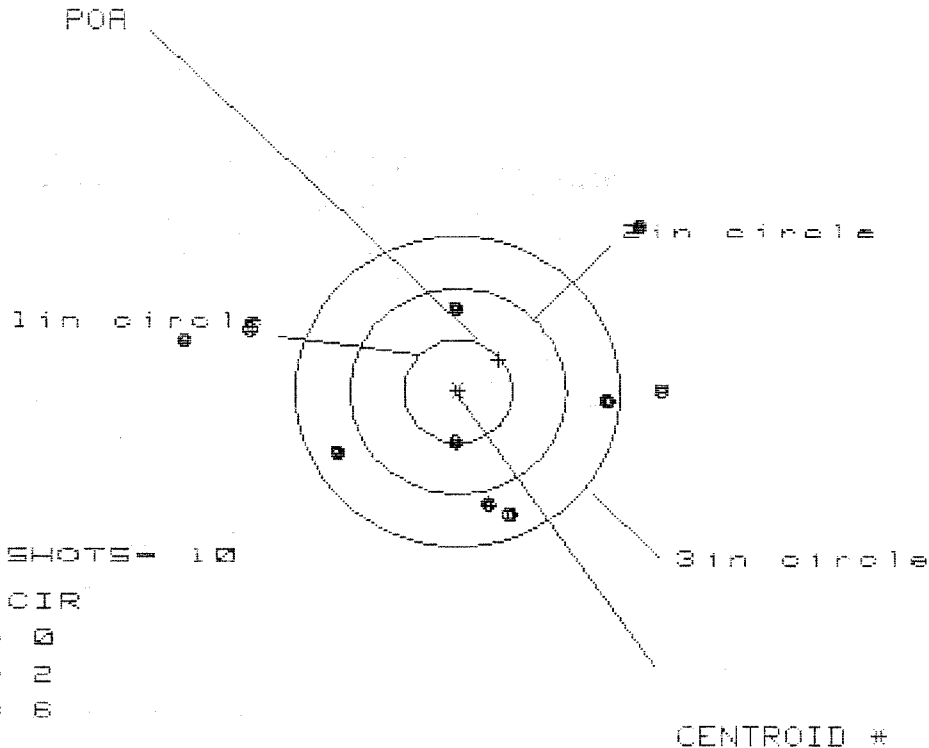
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.1284
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.1398
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .189817

THE AMR FOR THIS RIFLE IS: 1.471

30 Nov 1980

FILE:/PATTERNING/CENTERFIRE_PATT/C8587553

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1 in = 0

2 in = 2

3 in = 6

HS = 4.423

VS = 2.779

GS = 4.453

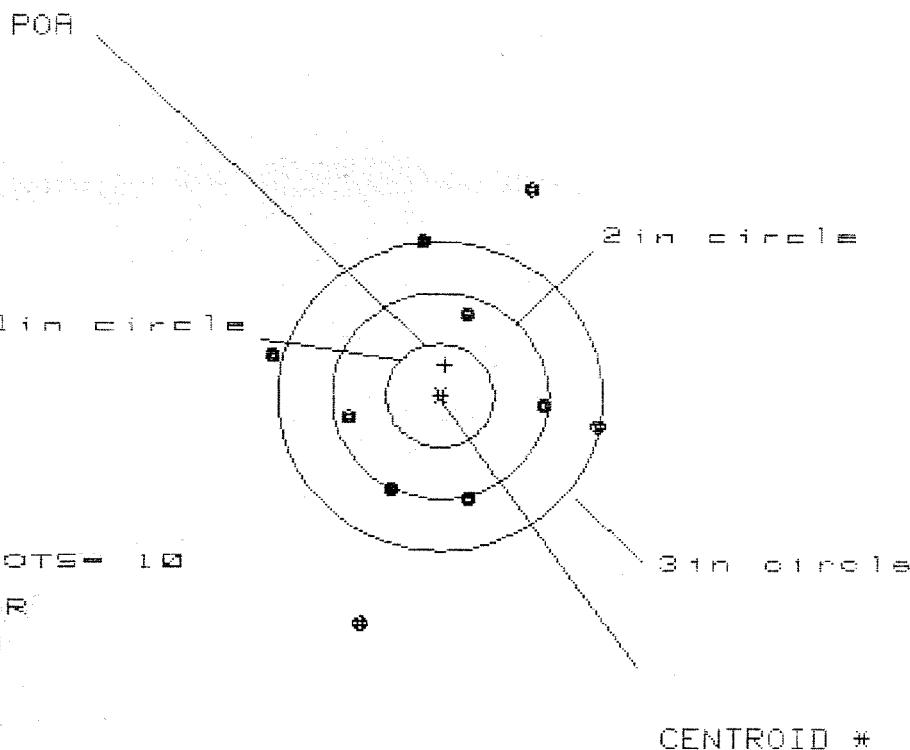
CENTROID *

PATTERN #	1	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.875	1.592	1.769
MINIMUM X	-2.548	-2.251	-2.074
MAXIMUM Y	1.558	1.616	1.107
MINIMUM Y	-1.221	-1.163	-0.961
CENTROID X	-.378	-.095	-.272
CENTROID Y	-.308	-.366	-.568
POA TO CENTROID in.	.488	.378	.629
MIN RADIUS	.535	.572	.308
MEAN RADIUS	1.520	1.368	1.221
MAX RADIUS	2.600	2.348	2.249
HORIZONTAL SPREAD	4.423	3.843	3.843
VERTICAL SPREAD	2.779	2.779	2.068
EXTREME SPREAD	4.453	3.891	3.891
NUMBER IN ONE INCH CIRCLE	=	0	
NUMBER IN TWO INCH CIRCLE	=	2	
NUMBER IN THREE INCH CIRCLE	=	6	

30 Nov 1990

FILE:/PATTERNING/CENTERFIRE_PATT/C6587559

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1 in = 0

2 in = 3

3 in = 6

HS= 2.921

VS= 4.127

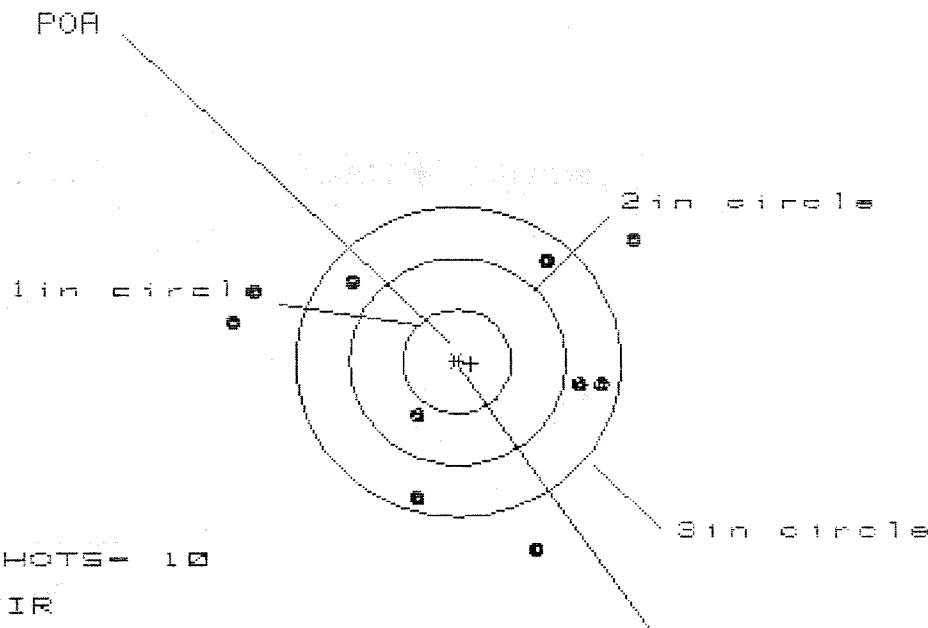
GS= 4.430

PATTERN #	2		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.416	1.335	1.435
MINIMUM X	-1.505	-1.586	-1.486
MAXIMUM Y	1.973	1.734	1.485
MINIMUM Y	-2.154	-1.252	-1.036
CENTROID X	-.051	.030	-.070
CENTROID Y	-.302	-.063	-.279
POA TO CENTROID in.	.306	.069	.288
MIN RADIUS	.829	.576	.814
MEAN RADIUS	1.362	1.251	1.149
MAX RADIUS	2.274	1.910	1.537
HORIZONTAL SPREAD	2.921	2.921	2.921
VERTICAL SPREAD	4.127	2.986	2.521
EXTREME SPREAD	4.430	3.186	2.997
NUMBER IN ONE INCH CIRCLE	=	0	
NUMBER IN TWO INCH CIRCLE	=	3	
NUMBER IN THREE INCH CIRCLE	=	6	

30 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/08587559

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 0

2 in = 1

3 in = 6

HS= 3.717

VS= 2.912

GS= 3.787

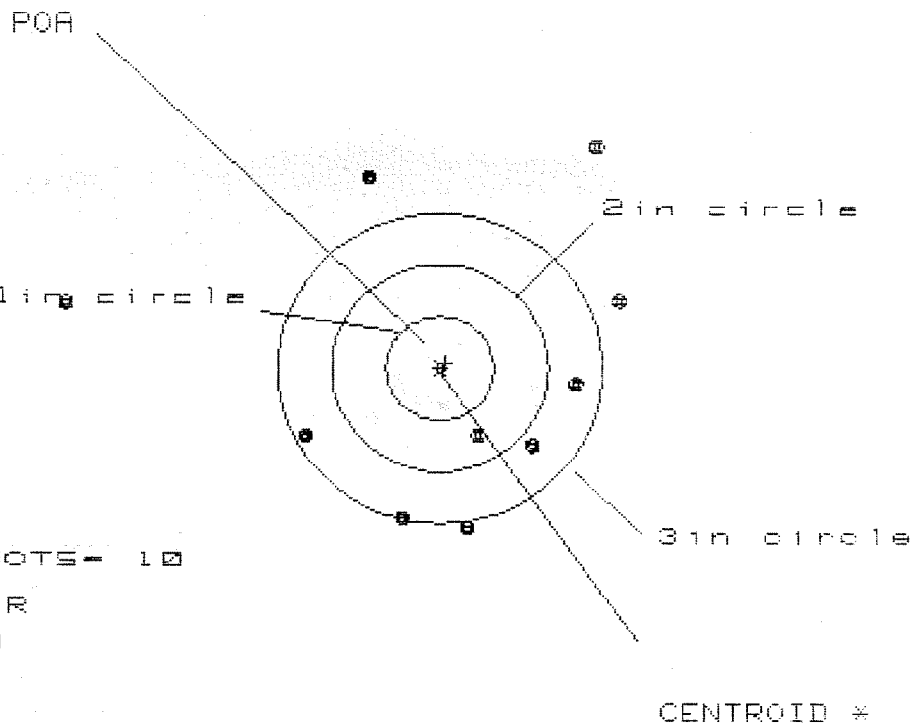
CENTROID #

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.651	1.422	1.299
MINIMUM X	:	-2.066	-2.069	-1.892
MAXIMUM Y	:	1.138	1.184	1.174
MINIMUM Y	:	-1.774	-1.728	-1.588
CENTROID X	:	-.124	.105	-.072
CENTROID Y	:	.020	-.026	-.174
POA TO CENTROID in.	:	.126	.109	.109
MIN RADIUS	:	.649	.783	.552
MEAN RADIUS	:	1.500	1.409	1.339
MAX RADIUS	:	2.107	2.189	2.078
HORIZONTAL SPREAD	:	3.717	3.491	3.191
VERTICAL SPREAD	:	2.912	2.912	2.754
EXTREME SPREAD	:	3.787	3.531	3.531
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		1	
NUMBER IN THREE INCH CIRCLE	=		6	

30 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/CS587559

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1in = 0

2in = 1

3in = 5

HS= 5.036

VS= 3.705

GS= 5.103

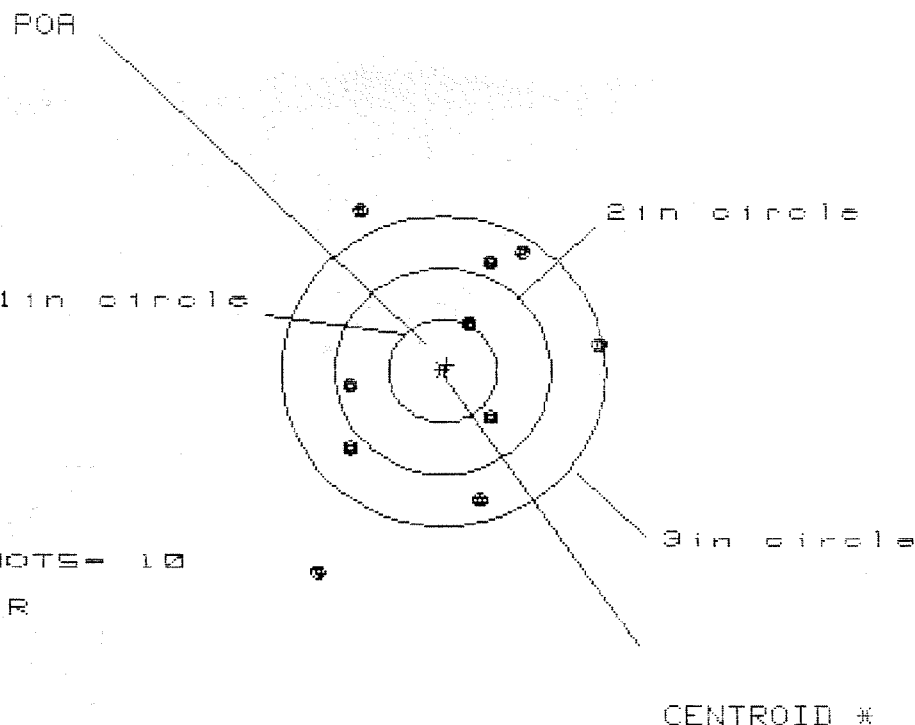
PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.608	1.227	1.359
MINIMUM X	:	-3.428	-1.657	-1.525
MAXIMUM Y	:	2.125	2.192	2.230
MINIMUM Y	:	-1.580	-1.513	-1.239
CENTROID X	:	-.050	.331	.199
CENTROID Y	:	-.050	-.117	-.391
POA TO CENTROID in.	:	.071	.351	.438
MIN RADIUS	:	.738	.611	.337
MEAN RADIUS	:	1.737	1.461	1.269
MAX RADIUS	:	3.480	2.435	2.405
HORIZONTAL SPREAD	:	5.036	2.884	2.884
VERTICAL SPREAD	:	3.705	3.705	3.469
EXTREME SPREAD	:	5.103	3.980	3.577
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		1	
NUMBER IN THREE INCH CIRCLE	=		5	

30 Nov 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587559

CENTERFIRE PATTERNS

5



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 3

3 in = 8

HS= 2.622

VS= 3.489

GS= 3.669

PATTERN #	:	5	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.467	1.339	1.231
MINIMUM X	:	-1.155	-0.980	-1.088
MAXIMUM Y	:	1.531	1.313	1.154
MINIMUM Y	:	-1.958	-1.478	-1.314
CENTROID X	:	-0.039	.089	.197
CENTROID Y	:	-0.059	.159	-0.005
POA TO CENTROID in.	:	.070	.182	.197
MIN RADIUS	:	.484	.233	.381
MEAN RADIUS	:	1.238	1.087	1.022
MAX RADIUS	:	2.274	1.569	1.316
HORIZONTAL SPREAD	:	2.622	2.319	2.319
VERTICAL SPREAD	:	3.489	2.791	2.468
EXTREME SPREAD	:	3.669	2.974	2.508
NUMBER IN ONE INCH CIRCLE =	:	1		
NUMBER IN TWO INCH CIRCLE =	:	3		
NUMBER IN THREE INCH CIRCLE =	:	8		

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6587559
1 Dec 1990

CENTROIDAL DISTANCES

0 TO	1	.273183
1 TO	2	.273942
1 TO	3	.0979898
1 TO	4	.734918
1 TO	5	.667522

σ^2 ⁵₄ <----FOR

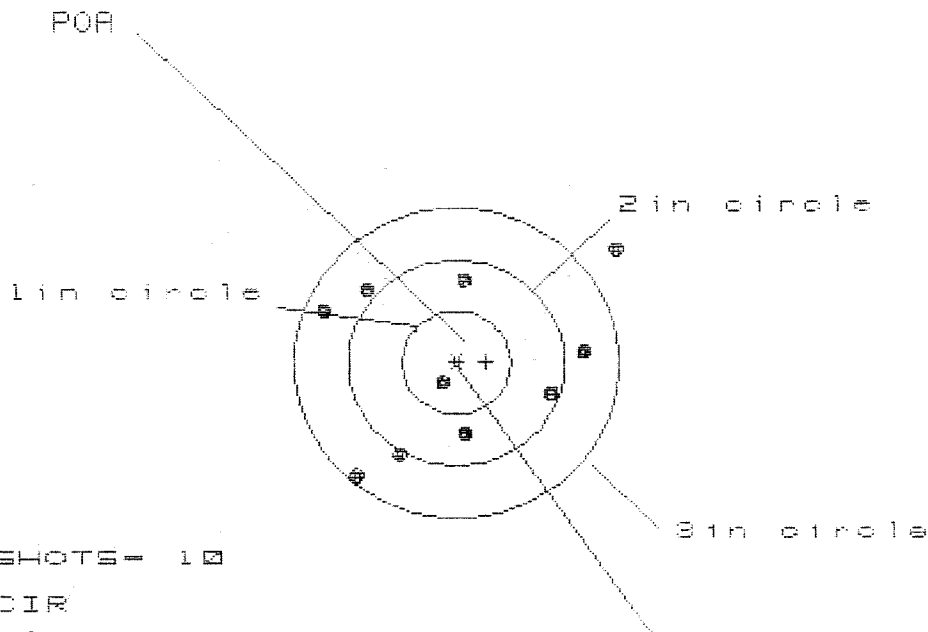
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .00318
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .1056
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .110284

THE AMR FOR THIS RIFLE IS: .9732

1 Oct 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8587559.1

CENTERFIRE PATTERNS # 1



OF SHOTS - 10

IN CIR

1in = 1

2in = 4

3in = 9

HS = 2.668

VS = 2.197

ES = 3.243

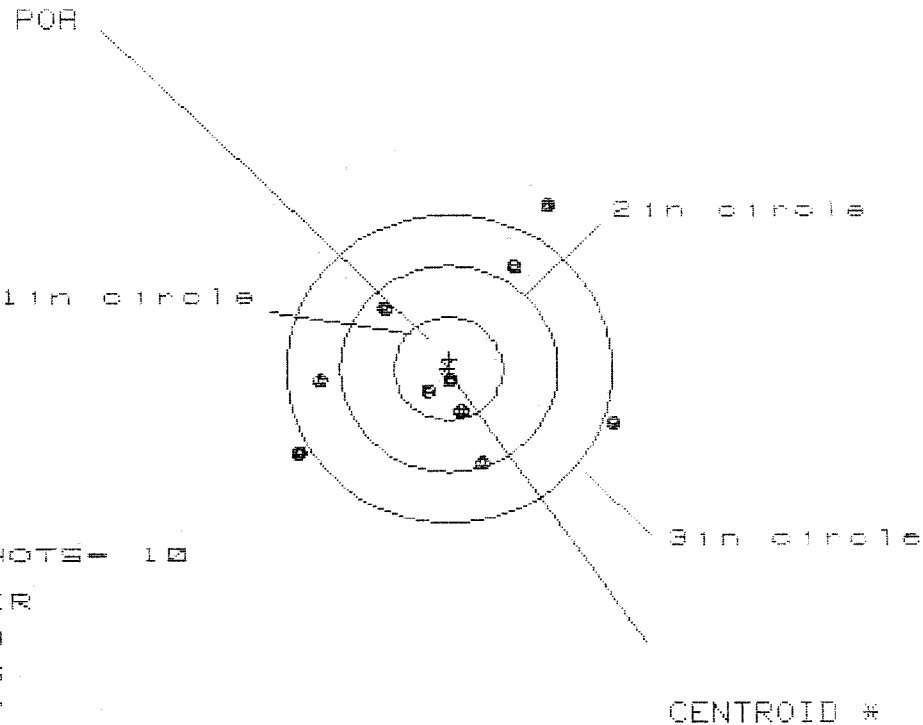
CENTROID *

PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.436	1.360	1.262
MINIMUM X	:	-1.232	-1.073	-1.171
MAXIMUM Y	:	1.109	.907	.787
MINIMUM Y	:	-1.088	-.965	-.872
CENTROID X	:	-.273	-.432	-.334
CENTROID Y	:	-.010	-.133	-.013
POA TO CENTROID in.	:	.273	.452	.334
MIN RADIUS	:	.239	.055	.201
MEAN RADIUS	:	1.057	.938	.910
MAX RADIUS	:	1.814	1.379	1.266
HORIZONTAL SPREAD	:	2.668	2.433	2.433
VERTICAL SPREAD	:	2.197	1.872	1.659
EXTREME SPREAD	:	3.243	2.461	2.461
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		9	

1 Dec 1998

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CENTERFIRE PATTERNS # 2



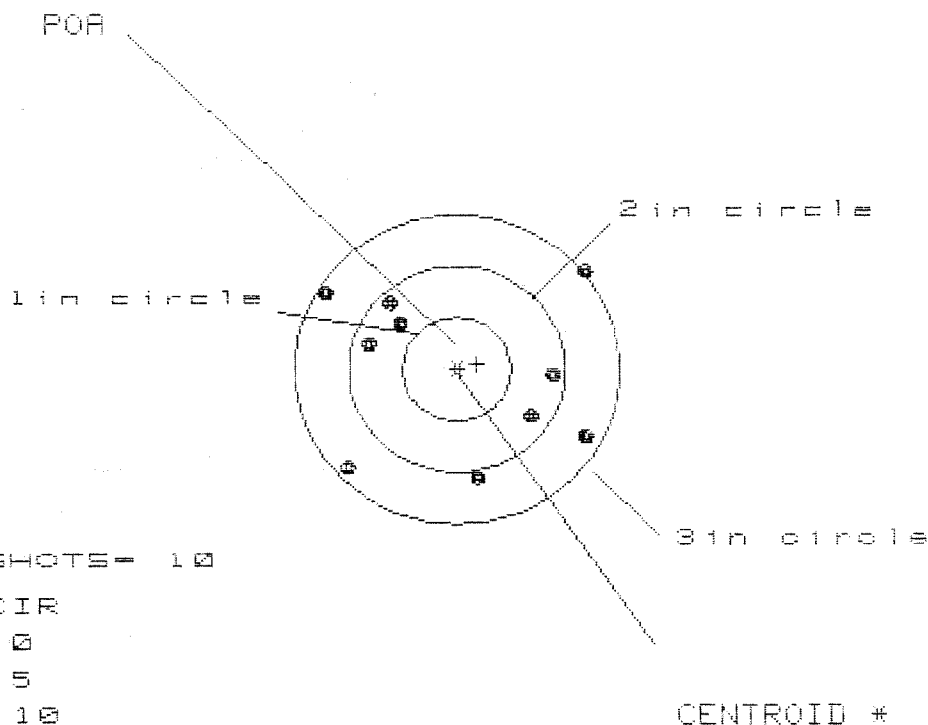
OF SHOTS- 10
 # IN CIR
 1in = 3
 2in = 5
 3in = 7
 HS= 2.906
 VS= 2.517
 GS= 3.406

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.474	1.573	1.407
MINIMUM X	:	-1.432	-1.333	-1.266
MAXIMUM Y	:	1.630	1.178	1.093
MINIMUM Y	:	-.887	-.706	-.791
CENTROID X	:	-.011	-.110	.056
CENTROID Y	:	-.090	-.271	-.186
POA TO CENTROID in.	:	.091	.293	.195
MIN RADIUS	:	.150	.118	.075
MEAN RADIUS	:	1.023	.887	.817
MAX RADIUS	:	1.859	1.614	1.475
HORIZONTAL SPREAD	:	2.906	2.906	2.673
VERTICAL SPREAD	:	2.517	1.884	1.884
EXTREME SPREAD	:	3.406	2.924	2.706
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		7	

1 Dec 1998

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CENTERFIRE PATTERNS # 3



OF SHOTS= 10

IN CIR

1 in = 0

2 in = 5

3 in = 10

HS= 2.416

VS= 1.983

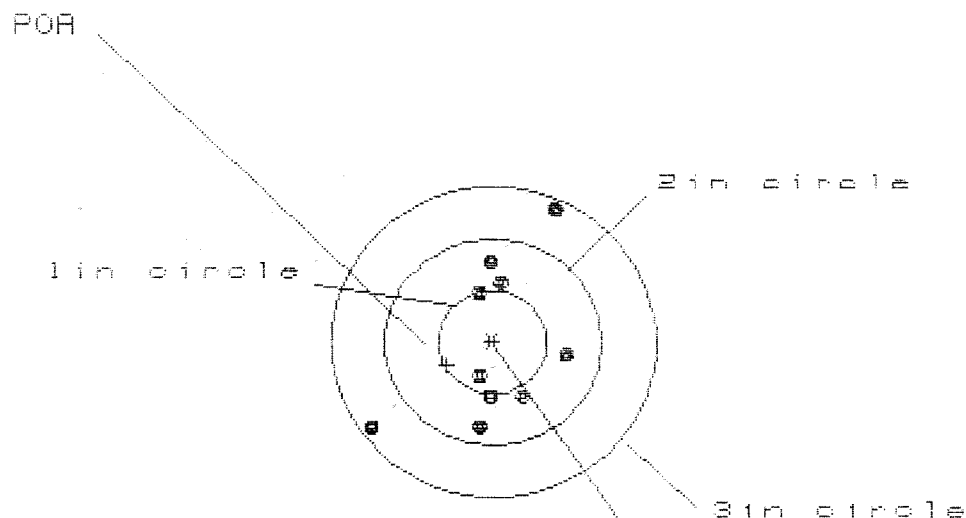
GS= 2.855

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.202	1.331	1.196
MINIMUM X	:	-1.214	-1.085	-1.088
MAXIMUM Y	:	.940	.886	.828
MINIMUM Y	:	-1.043	-.939	-.828
CENTROID X	:	-.184	-.313	-.177
CENTROID Y	:	-.051	-.155	-.266
POA TO CENTROID in.	:	.191	.349	.320
MIN RADIUS	:	.731	.720	.747
MEAN RADIUS	:	1.085	1.028	.977
MAX RADIUS	:	1.496	1.428	1.262
HORIZONTAL SPREAD	:	2.416	2.416	2.204
VERTICAL SPREAD	:	1.983	1.825	1.656
EXTREME SPREAD	:	2.855	2.793	2.224
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		10	

1 Dec 1998

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CENTERFIRE PATTERNS # 4



OF SHOTS= 10

IN CIR

1in = 2

2in = 8

3in = 10

HS= 1.842

VS= 2.057

GS= 2.668

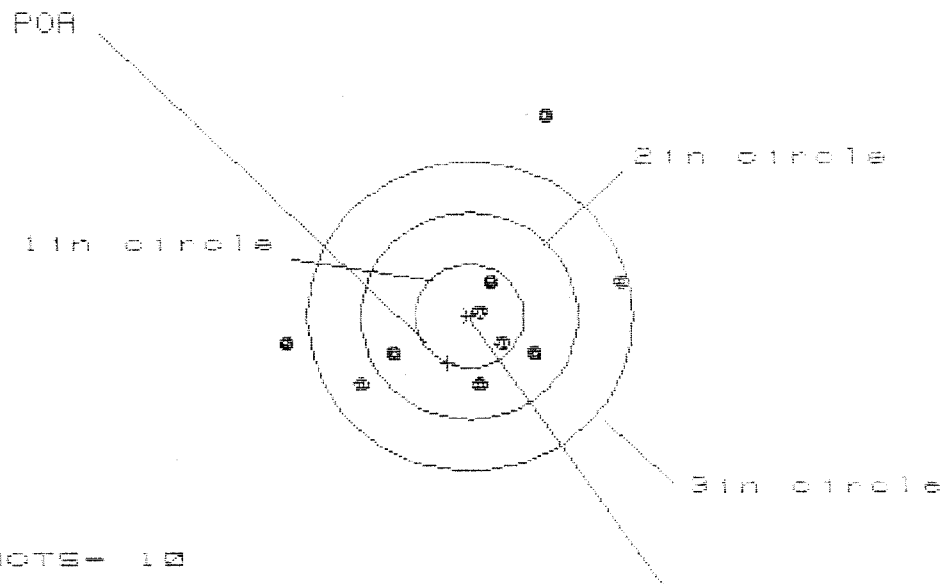
CENTROID *

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.693	.565	.618
MINIMUM X	:	-1.149	-.287	-.234
MAXIMUM Y	:	1.250	1.160	.803
MINIMUM Y	:	-.807	-.869	-.724
CENTROID X	:	.425	.553	.500
CENTROID Y	:	.220	.310	.165
POA TO CENTROID in.	:	.479	.634	.526
MIN RADIUS	:	.358	.477	.344
MEAN RADIUS	:	.755	.679	.589
MAX RADIUS	:	1.404	1.234	.805
HORIZONTAL SPREAD	:	1.842	.852	.852
VERTICAL SPREAD	:	2.057	2.029	1.527
EXTREME SPREAD	:	2.668	2.144	1.535
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		10	

1 Dec 1990

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CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1in = 3

2in = 6

3in = 8

HS= 3.054

VS= 2.606

GS= 3.174

CENTROID #

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.390	1.467	1.269
MINIMUM X	:	-1.664	-1.587	-1.148
MAXIMUM Y	:	1.905	.544	.543
MINIMUM Y	:	-.701	-.489	-.490
CENTROID X	:	.202	.125	.323
CENTROID Y	:	.459	.247	.248
POA TO CENTROID in.	:	.501	.277	.407
MIN RADIUS	:	.106	.329	.172
MEAN RADIUS	:	.946	.816	.681
MAX RADIUS	:	2.029	1.587	1.373
HORIZONTAL SPREAD	:	3.054	3.054	2.417
VERTICAL SPREAD	:	2.606	1.033	1.033
EXTREME SPREAD	:	3.174	3.100	2.621
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		8	