

C6523496

MODEL 700™ M24

Model **SMS**™

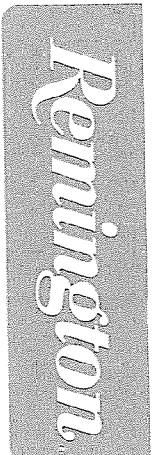
Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.



Repair Inquiry

Repair Number: RE00061176

Serial: C6523496 Model 700 Center Fire Caliber:
7.62 NATO M-24 (SWS)

Repairman:

Verify Repair

Status:

Closed 2/5/2003 5:06:57 PM

Address Information

Customer:

☒ Received From

Return To:

☐ Received From

Name: CO C SUPPORT BATTALION

CO C SUPPORT BATTALION

Address 1: 1 ST SWTG (A)

1 ST SWTG (A)

Address 2: ATTN ARMAMENT FAC

PO Box:

ATTN ARMAMENT FAC

PO Box:

City: FORT BRAGG

FORT BRAGG

State: NC

Zip Code: 28310

Country: US

State: NC

Zip Code: 28310

Country: US

FFL:

Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

Contact Information

Phone:

Fax:

Email:

Comments:

Received Condition

Poor

Condition

Notes:

CSR

Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	1
A017	Scope Base	1
A026	Scope	1
X	FRT & REAR SGT BA	1

Repair Search

Refresh

Close

nagletj

2/6/2003

8:08 AM

CAPS

NUM

INS

SCPL

start

Inbox - Micros...

Calendar - Micro...

Shot Show - IM

Arms Services R...

8:08 AM

Serial Number: C6523496

Model: 700



RE00061176

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6523496.__0
FILE DATE AND TIME: 03/08/2003 11:36

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.032
The Average Y Centroid of the Five Target Set:	-0.066
The Average Point of Impact of the Five Target Set:	0.073
The Average Mean Radius of the Five Target Set:	0.666
The Distance from POA to Centroid Target #1:	0.190
The Distance from Centroid Target #2 to Centroid Target #1:	0.036
The Distance from Centroid Target #3 to Centroid Target #1:	0.091
The Distance from Centroid Target #4 to Centroid Target #1:	0.323
The Distance from Centroid Target #5 to Centroid Target #1:	0.152

SERIAL NUMBER: C6523496. __0

TARGET NUMBER: 1

FILE DATE: 03/08/2003

FILE TIME: 11:36

POINT#	X	Y
1:	0.609	-1.135
2:	0.810	-0.303
3:	0.670	-0.149
4:	-0.004	0.733
5:	-1.280	0.854
6:	-0.568	0.410
7:	-0.244	0.141
8:	-0.660	0.093
9:	-0.220	-0.191
10:	0.579	-1.122
11:	1.120	-1.260

X CENTROID: 0.074

Y CENTROID: -0.175

POA TO CENTROID: 0.190

HORZ SPREAD: 2.400

VERT SPREAD: 2.114

GROUP SPREAD: 3.198

MIN RADIUS: 0.294

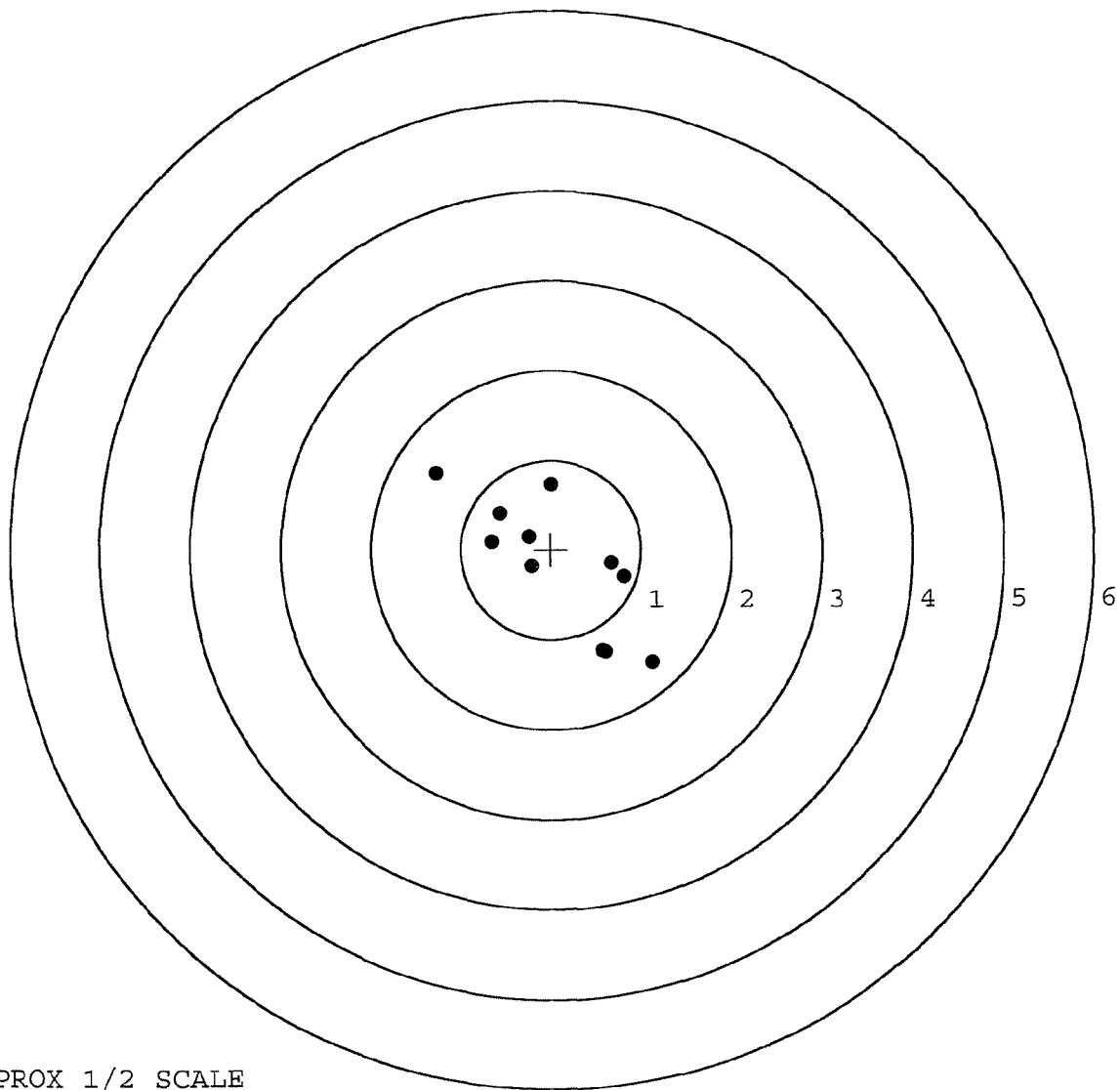
MAX RADIUS: 1.701

MEAN RADIUS: 0.912

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523496. __0

TARGET NUMBER: 2

FILE DATE: 03/08/2003

FILE TIME: 11:36

POINT#	X	Y
1:	0.472	-0.218
2:	0.221	-0.154
3:	-0.121	-0.500
4:	-0.443	-0.848
5:	0.926	-1.567
6:	-0.276	-0.060
7:	-0.086	0.215
8:	0.053	0.361
9:	0.265	0.428
10:	-0.552	0.813

X CENTROID: 0.046

Y CENTROID: -0.153

POA TO CENTROID: 0.160

HORZ SPREAD: 1.478

VERT SPREAD: 2.380

GROUP SPREAD: 2.802

MIN RADIUS: 0.175

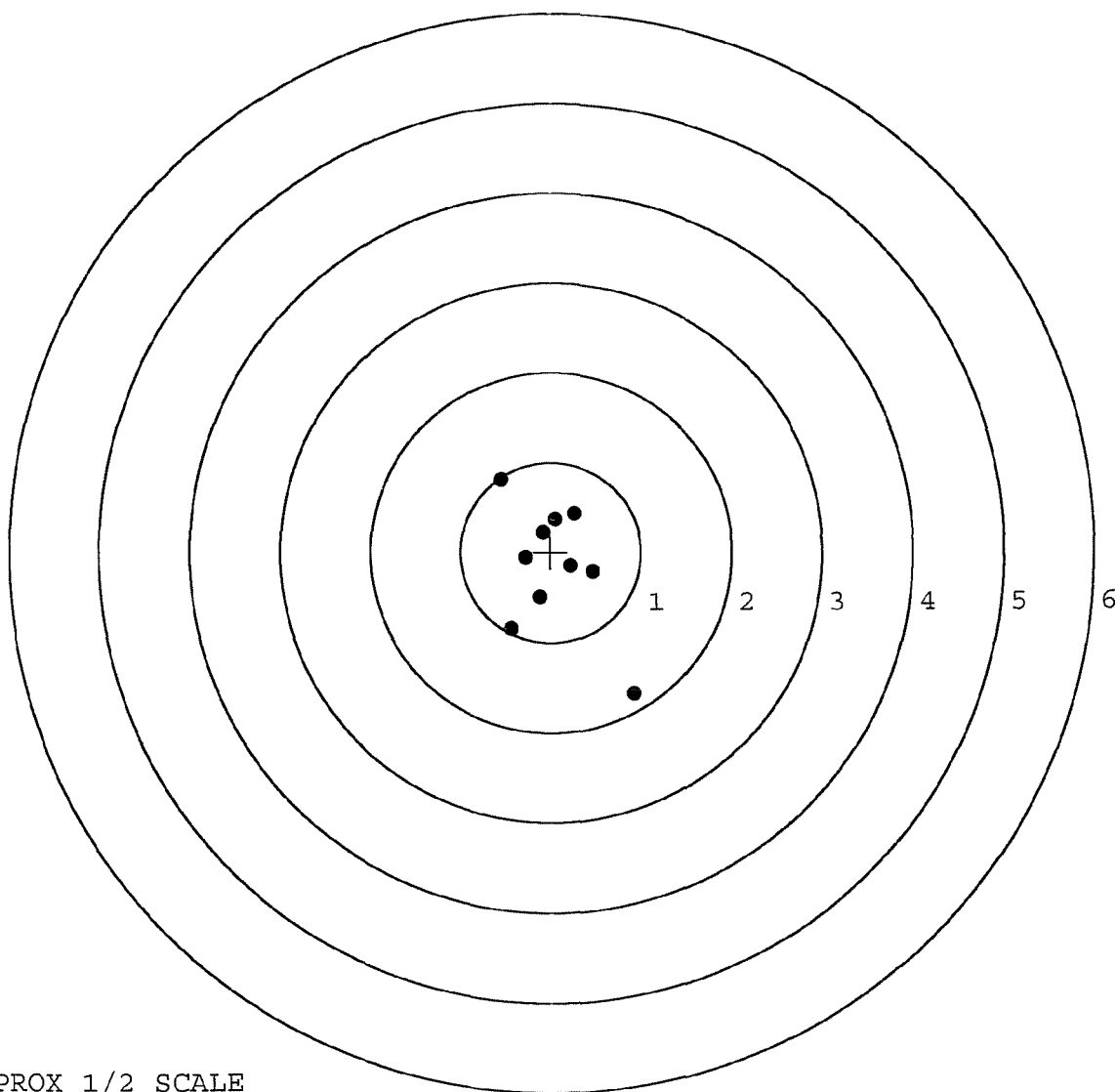
MAX RADIUS: 1.666

MEAN RADIUS: 0.650

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 9

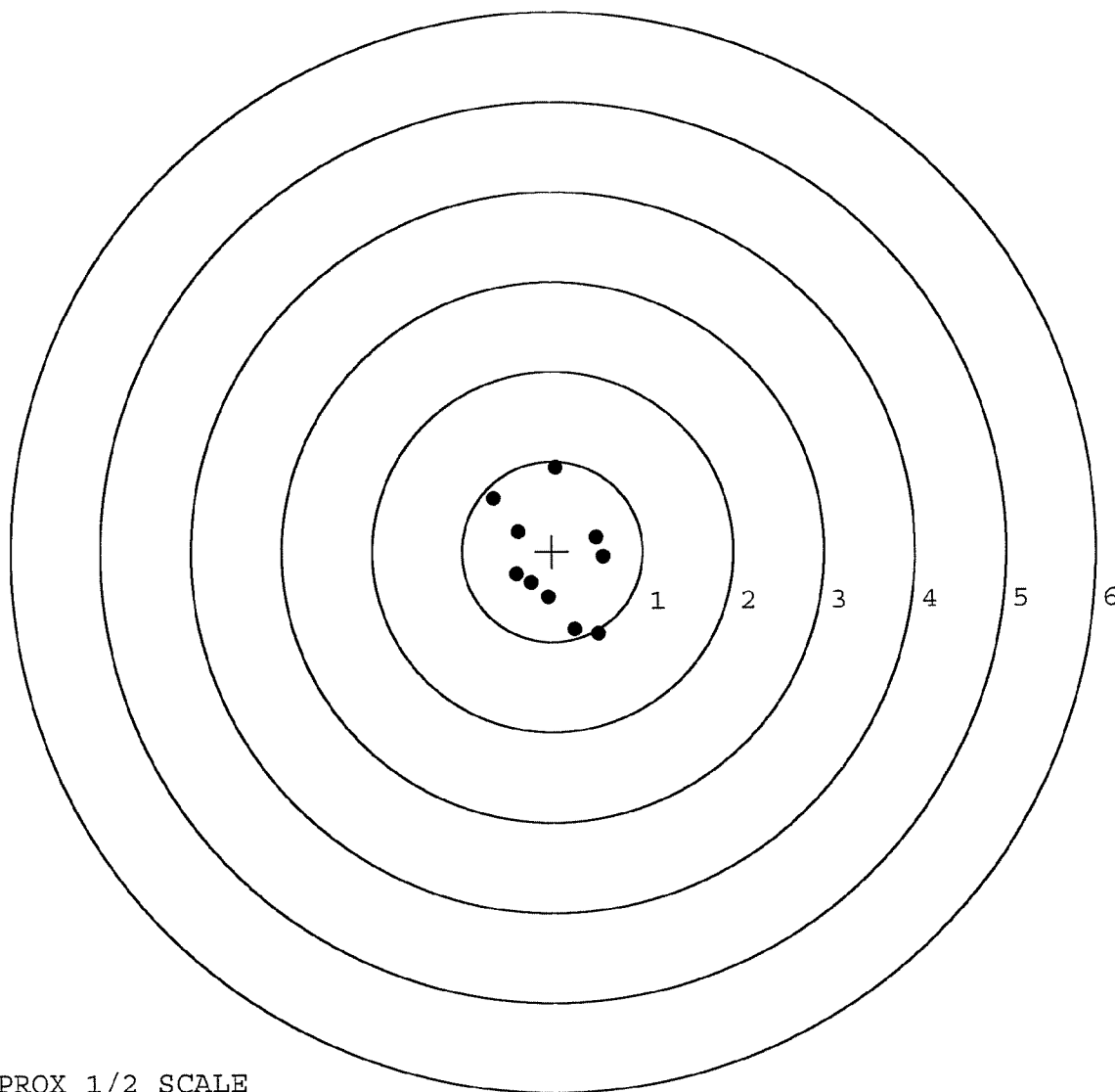


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523496.___0
TARGET NUMBER: 3
FILE DATE: 03/08/2003
FILE TIME: 11:36

X CENTROID: 0.013
Y CENTROID: -0.108
POA TO CENTROID: 0.109
HORZ SPREAD: 1.212
VERT SPREAD: 1.844
GROUP SPREAD: 1.902
MIN RADIUS: 0.349
MAX RADIUS: 1.036
MEAN RADIUS: 0.655
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.507	-0.916
2:	0.250	-0.870
3:	0.560	-0.062
4:	0.493	0.154
5:	0.040	0.928
6:	-0.652	0.593
7:	-0.379	0.216
8:	-0.397	-0.258
9:	-0.236	-0.352
10:	-0.052	-0.512

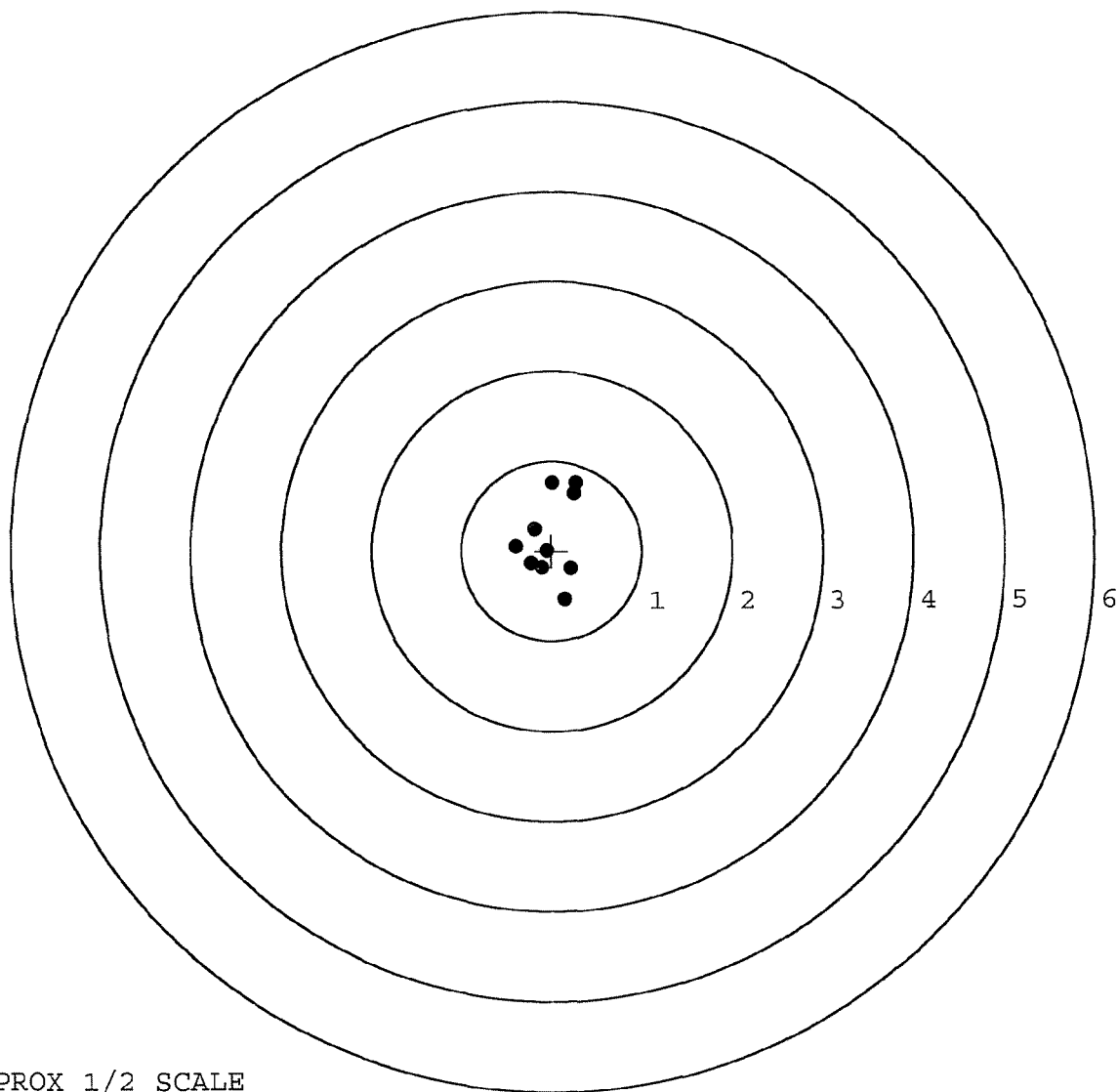


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523496. __0
TARGET NUMBER: 4
FILE DATE: 03/08/2003
FILE TIME: 11:36

X CENTROID: -0.009
Y CENTROID: 0.137
POA TO CENTROID: 0.137
HORZ SPREAD: 0.669
VERT SPREAD: 1.304
GROUP SPREAD: 1.310
MIN RADIUS: 0.144
MAX RADIUS: 0.702
MEAN RADIUS: 0.442
IN 1 IN DIAMETER: 6
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.247	0.635
2:	0.272	0.758
3:	0.008	0.755
4:	0.151	-0.546
5:	0.219	-0.196
6:	-0.111	-0.193
7:	-0.058	0.002
8:	-0.196	0.244
9:	-0.397	0.052
10:	-0.227	-0.141



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523496.___0

TARGET NUMBER: 5

FILE DATE: 03/08/2003

FILE TIME: 11:36

POINT#	X	Y
1:	0.909	-0.306
2:	0.818	-0.057
3:	0.413	-0.773
4:	0.085	-0.510
5:	0.297	-0.097
6:	0.274	0.228
7:	-0.533	-0.061
8:	-0.594	0.207
9:	-0.454	0.563
10:	-0.873	0.522

X CENTROID: 0.034

Y CENTROID: -0.028

POA TO CENTROID: 0.044

HORZ SPREAD: 1.782

VERT SPREAD: 1.336

GROUP SPREAD: 1.965

MIN RADIUS: 0.272

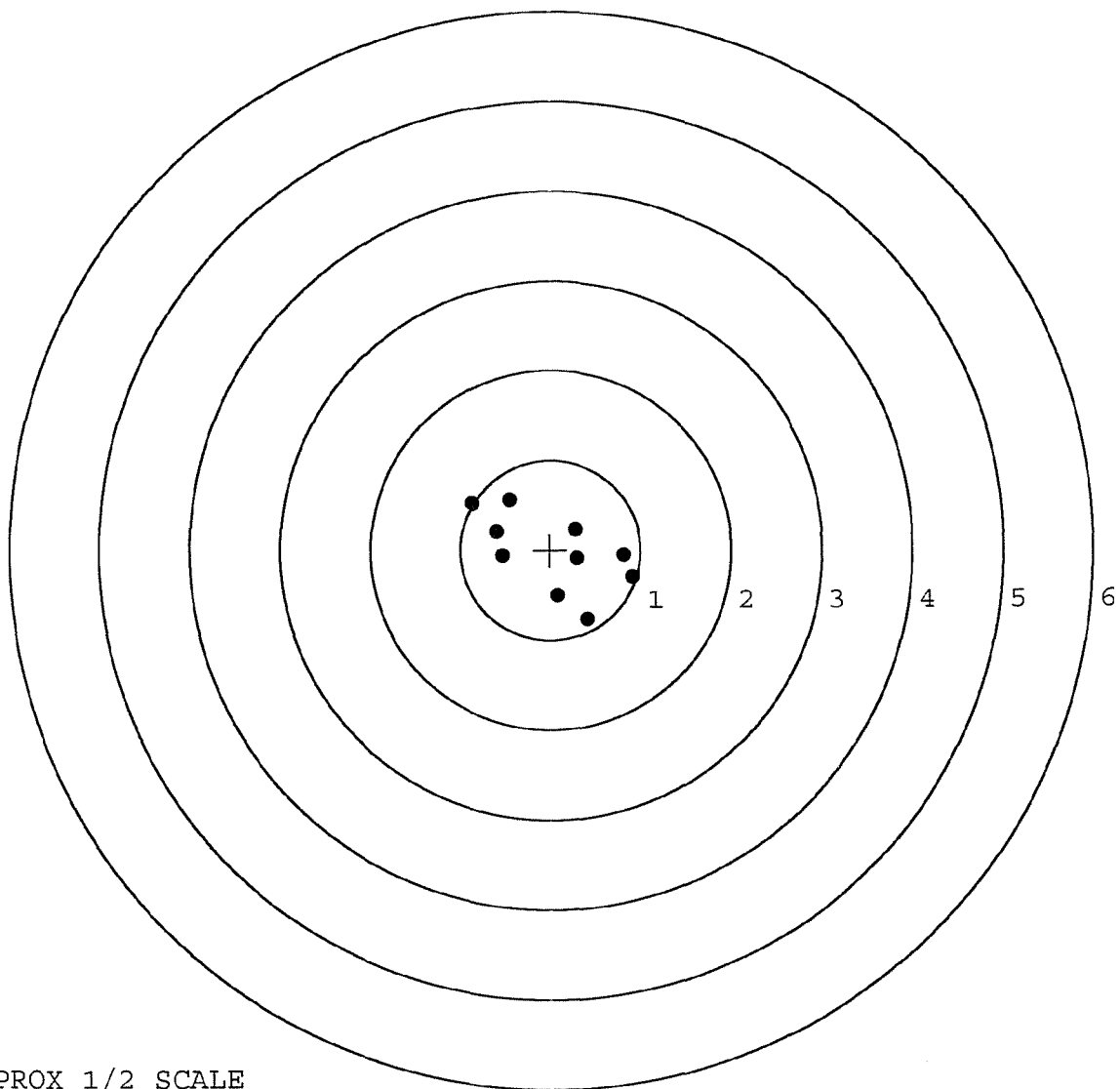
MAX RADIUS: 1.061

MEAN RADIUS: 0.671

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

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

SERIAL # C6523496 INSPECTED BY: RTL

DATE REC'D: 2/5/03 DATE RET'D: 3/10/03

ITEM

BARREL ASSEMBLY

☒ BARREL
☒ RECEIVER
☒ FRONT SIGHT BASE
☒ REAR SIGHT BASE
☒ SCREWS
☒ FINISH

SCOPE ASSEMBLY

☒ SCOPE
☒ SCOPE RINGS
☒ MOUNTING SCREWS
☒ MOUNTING BASE
☒ SCREWS
☒ FINISH
☒ CLARITY

ITEM

STOCK ASSEMBLY

☒ STOCK
☒ SLING AWIVEL STUDS
☒ ADJUSTABLE
☒ BUTT PLATE
☒ LOCK NUTS
☒ BARREL CLEARANCE
☒ COLOR / FINISH

SYSTEMS CASE

☒ SCOPE CASE
☒ IRON SIGHTS
☒ DEPLOYMENT KIT

TRIGGER ASSEMBLY

☒ SAFETY OPERATION
☒ RE-SET TO FACTORY SPECS

COMMENTS:

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

R & E NUMBER	61176		
SERIAL NUMBER	C6523496		
LOG-IN DATE	2/5/03		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	2-10-03	RLW
560 A	RE-BARREL	2-11-03	RTL
B	DRILL AND TAP	2-20-03	TRW
575	ASSEMBLE	2-13-03	RTL
600	PROOF	2-13-03	K
605	CHECK HEADSPACE	2-13-03	A
610	DIS-ASSEMBLE GUN	2-14-03	RTL
612	MAGNAFLUX OPERATOR	RD	
615	ROLLMARK CALIBER	2/19/03	LB
618	ROTO-BLAST	2-26-03	TRW
620	APPLY COATINGS	3-3	TA
625 A	FINAL ASSEMBLY	3-6-03	RTL
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE		
D	SAFETY "OFF" FORCE		
E	FIRING PIN INDENT		
640	TARGET	3-7-03	TRW
655	FINAL INSPECT	3-10-03	RTL
660	PACK	3-10-03	TA
		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™ H24

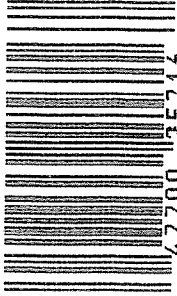
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada Marque Deposee.

01

SERIAL NO.
C6523496

ORDER NO.
5716

UPC



0 47700 25716 7



5716 C6523496

CAR- TEC

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6523496

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		8-21-90	DB
600	Proof		8-21-90	DB
607	Check Headspace		8-21-90	DB
610	Dis-assemble Gun		8-21-90	DB
612	Magnaflux Barrel Action		8/21/90	KCR
	Magnaflux Bolt		8/21/90	KCR
615	Rollmark Caliber		8/21/90	GS
617	Drill and Tap Sight Holes			
618	Polish Barrel			
620	Apply Coatings (Barrel Action)		8-21-90	TJA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly			
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head			
	C) Inspect Ejector Hole for Chamfer			
	D) Oil Firing Pin Ass'y			
	E) Adjust Trigger Pull to Min Setting and Stake		9/10/90	WS

Op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	5	5			9/10/90	WB
	G) Safety Off Force	2 1/4	2 1/4	2 1/4			9/10/90	WB
	H) Trigger Pull Test & Retainability						9/10/90	WB
	I) Firing Pin Indent	.023	.023	.023			9/10/90	WB
	J) Assemble Stock						9/10/90	KS
	K) Assemble Swivel Studs						9/15/90	LS
	L) Attach Front and Rear Sight Assemblies						9/10/90	KS
	M) Iron Sight Alignment						9/10/90	KS
	N) Detach Front & Rear Sights & place in numbered container						9/10/90	KS
	O) Attach Scope to Rifle						9/10/90	KS
	P) Detach & Attach Scope 20 Times						9/10/90	KS
640	Gallery Target & Test						9/11/90	VF
	A) Time						"	VF
	B) Malfunctions						"	VF
	C) Pierced Primers						"	VF
	D) Optical Clarity of Scope						"	VF
645	Inspect for Live Ammo						9/11/90	VF
655	Final Inspection							
	A) Headspace						9/15/90	LS
	B) Trigger Pull	2.44	2.41	2.42	2.24	2.33	9-14-90	JS
	C) Function						9/15/90	LS
660	Pack						9/19/90	VF

SWS TRIGGER PULL TEST

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

SERIAL NO. C 6523496
DATE 9/10/90
TESTER WB

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.46	2.40	2.60	2.44	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.49	2.28	2.64	2.41	
PULL #3	2.30	2.19	2.69	2.42	
PULL #4	2.17	2.33	2.49	2.24	
PULL #5	2.16	2.22	2.60	2.33	
TOTAL	11.58	11.32	13.02	11.84	
AVG.	2.31	2.26	2.60	2.368	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.15	3.18		
PULL #2	3.16	3.25		
PULL #3	3.15	3.23		
PULL #4	3.18	3.17		
PULL #5	3.04	3.22		
TOTAL	15.68	16.05		
AVG.	3.13	3.21		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.13	4.30		4.12
PULL #2	4.12	4.36		4.30
PULL #3	4.23	4.18		4.30
PULL #4	4.29	4.25		4.17
PULL #5	4.30	4.26		4.32
TOTAL	21.07	21.35		21.21
AVG.	4.21	4.27		4.24

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6523496
12 Sep 1990

CENTROIDAL DISTANCES

0 TO	1	.186196
1 TO	2	.0876641
1 TO	3	.53836
1 TO	4	.198708
1 TO	5	.299401

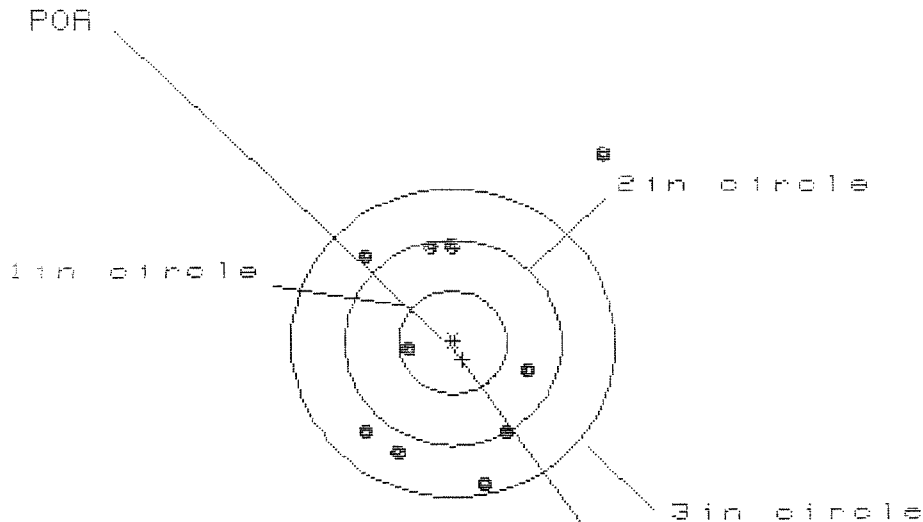
$\frac{E_1}{E_2}$ <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .049
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0346
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0599847
THE AMR FOR THIS RIFLE IS: .993

11 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8523496

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1in = 1

2in = 4

3in = 9

HS= 2.200

VS= 3.112

GS= 3.469

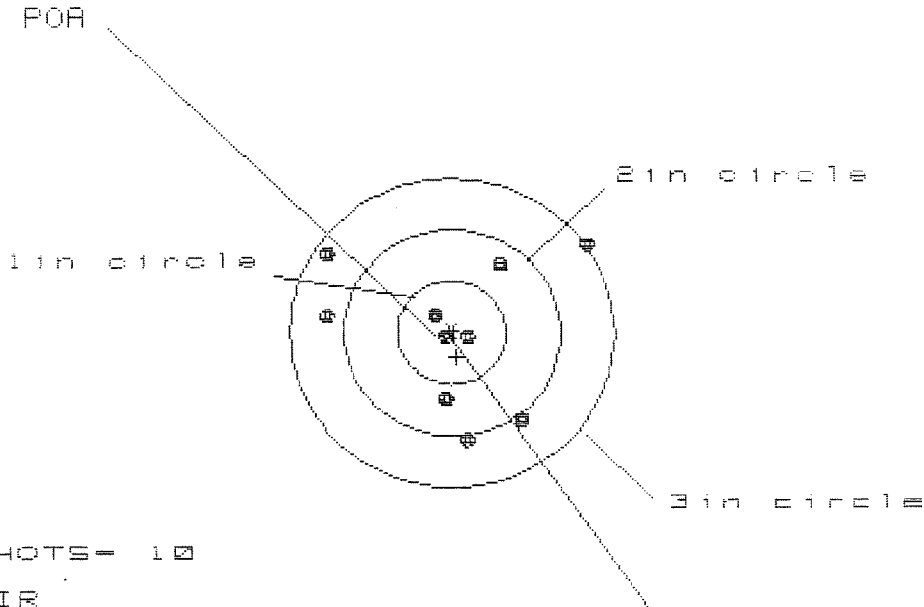
CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.361	.822	.872
MINIMUM X	-.839	-.688	-.638
MAXIMUM Y	1.795	1.160	1.021
MINIMUM Y	-1.317	-1.118	-1.030
CENTROID X	-.090	-.241	-.291
CENTROID Y	.163	-.036	.104
POR TO CENTROID in.	.186	.244	.309
MIN RADIUS	.450	.323	.244
MEAN RADIUS	1.134	.976	.940
MAX RADIUS	2.253	1.284	1.140
HORIZONTAL SPREAD	2.200	1.510	1.510
VERTICAL SPREAD	3.112	2.278	2.050
EXTREME SPREAD	3.469	2.456	2.213
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	9		

11 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8523496

CENTERFIRE PATTERNS # 2



* OF SHOTS - 10

IN CIR

1in = 3

2in = 5

3in = 10

HS= 2.392

VS= 1.886

GS= 2.433

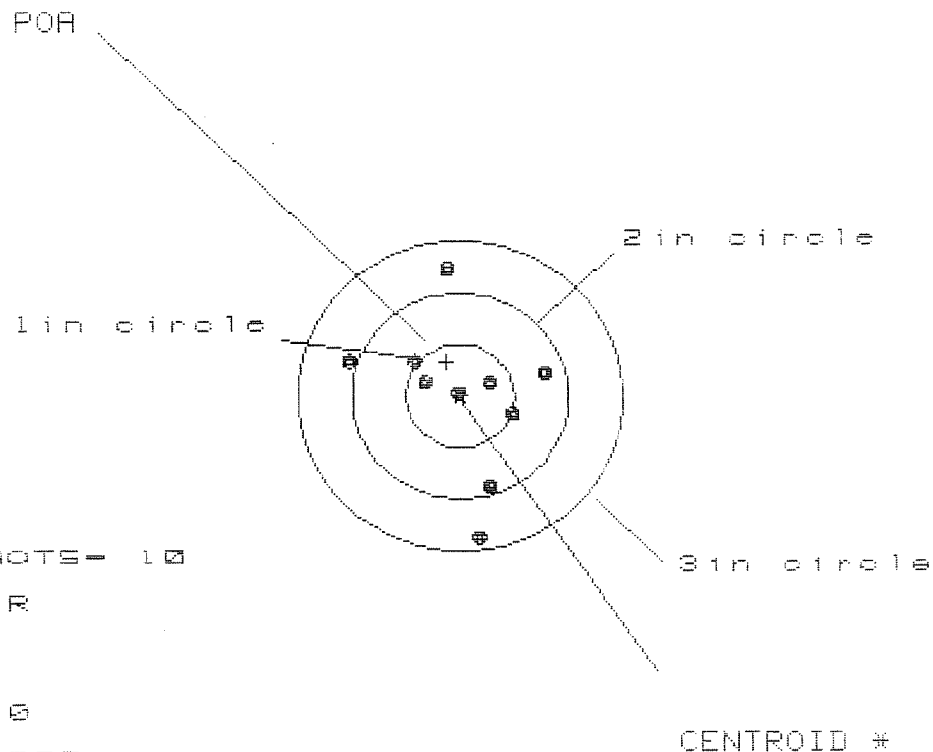
CENTROID #

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.224	.820	.691
MINIMUM X	:	-1.168	-1.033	-1.112
MAXIMUM Y	:	.829	.853	.856
MINIMUM Y	:	-1.067	-.975	-.868
CENTROID X	:	-.043	-.179	-.050
CENTROID Y	:	.237	.145	.038
POA TO CENTROID in.	:	.241	.230	.063
MIN RADIUS	:	.082	.100	.198
MEAN RADIUS	:	.796	.725	.643
MAX RADIUS	:	1.478	1.340	1.174
HORIZONTAL SPREAD	:	2.392	1.853	1.803
VERTICAL SPREAD	:	1.896	1.828	1.724
EXTREME SPREAD	:	2.433	2.433	2.059
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		10	

11 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523496

CENTERFIRE PATTERNS # 3



* OF SHOTS= 10

IN CIR

1in = 3

2in = 7

3in = 10

HS= 1.798

VS= 2.557

GS= 2.576

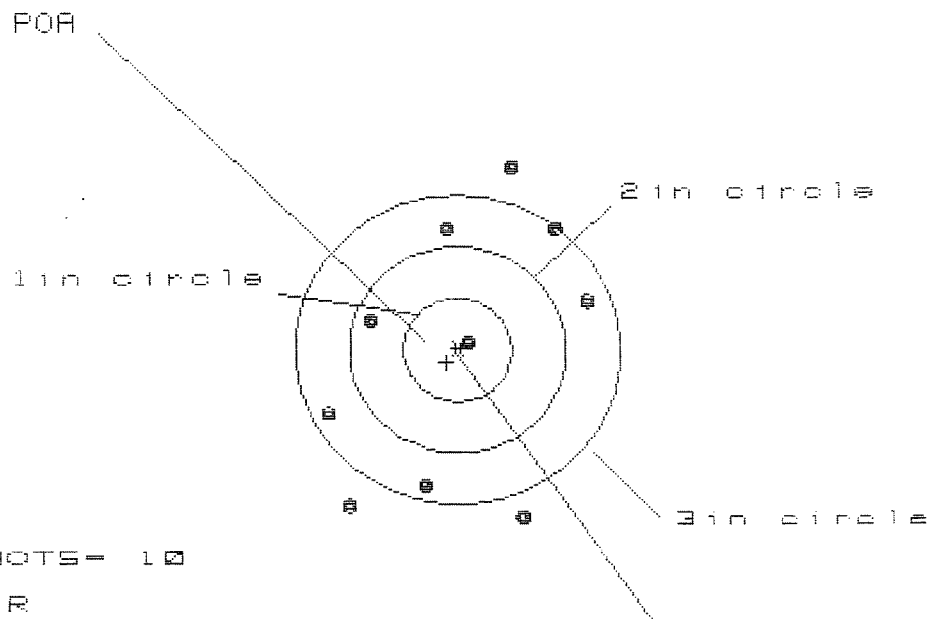
CENTROID *

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.750	.770	.755
MINIMUM X	:	-1.048	-1.028	-1.043
MAXIMUM Y	:	1.217	1.069	.296
MINIMUM Y	:	-1.340	-1.038	-.905
CENTROID X	:	.124	.104	.119
CENTROID Y	:	-.331	-.183	-.316
POA TO CENTROID in.	:	.354	.210	.338
MIN RADIUS	:	.043	.120	.030
MEAN RADIUS	:	.720	.643	.575
MAX RADIUS	:	1.351	1.082	1.085
HORIZONTAL SPREAD	:	1.798	1.798	1.798
VERTICAL SPREAD	:	2.557	2.107	1.201
EXTREME SPREAD	:	2.576	2.149	1.802
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		10	

11 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06523496

CENTERFIRE PATTERNS # 4



+ OF SHOTS= 10

IN CIR

1 in = 1

2 in = 2

3 in = 6

HS= 2.459

VS= 3.320

GS= 3.605

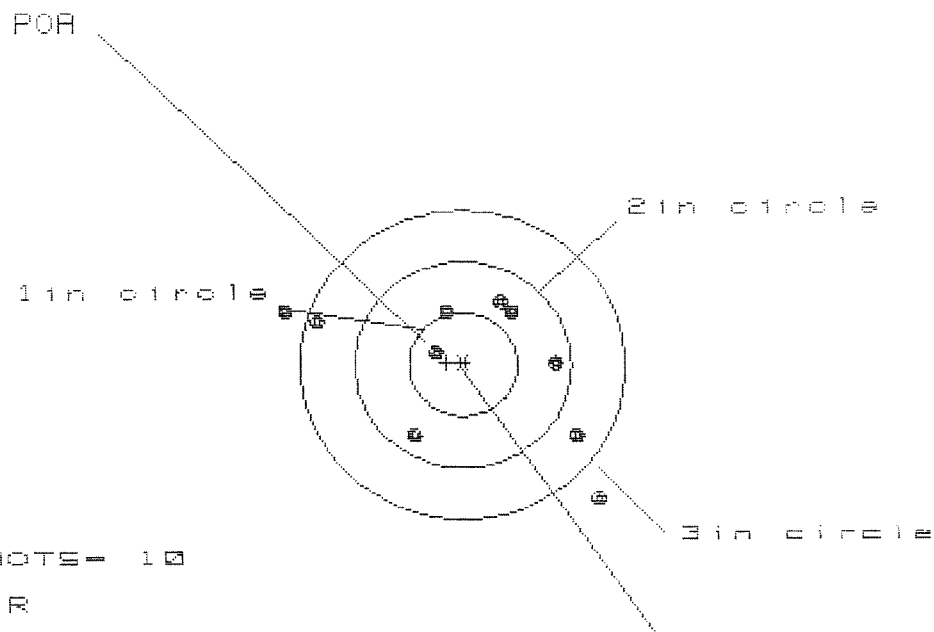
CENTROID *

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.241	1.133	1.176
MINIMUM X	:	-1.219	-1.326	-1.283
MAXIMUM Y	:	1.748	1.574	1.245
MINIMUM Y	:	-1.572	-1.746	-1.549
CENTROID X	:	.104	.211	.168
CENTROID Y	:	.120	.294	.097
POA TO CENTROID in.	:	.159	.362	.194
MIN RADIUS	:	.158	.090	.129
MEAN RADIUS	:	1.314	1.231	1.186
MAX RADIUS	:	1.841	1.821	1.648
HORIZONTAL SPREAD	:	2.459	2.459	2.459
VERTICAL SPREAD	:	3.320	3.320	2.794
EXTREME SPREAD	:	3.605	3.325	2.886
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		2	
NUMBER IN THREE INCH CIRCLE	=		6	

11 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523496

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1in = 1

2in = 6

3in = 8

HS= 2.844

VS= 1.886

GS= 3.368

CENTROID #

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.201	1.133	.944
MINIMUM X	:	-1.643	-1.510	-1.385
MAXIMUM Y	:	.604	.462	.509
MINIMUM Y	:	-1.282	-.873	-.826
CENTROID X	:	.150	.017	.206
CENTROID Y	:	-.016	.126	.079
POR TO CENTROID in.	:	.151	.127	.220
MIN RADIUS	:	.297	.142	.329
MEAN RADIUS	:	1.001	.886	.797
MAX RADIUS	:	1.756	1.557	1.420
HORIZONTAL SPREAD	:	2.844	2.643	2.330
VERTICAL SPREAD	:	1.886	1.335	1.335
EXTREME SPREAD	:	3.368	2.900	2.566
NUMBER IN ONE INCH CIRCLE =			1	
NUMBER IN TWO INCH CIRCLE =			6	
NUMBER IN THREE INCH CIRCLE =			8	