



C6498846

MODEL 700™ M24

Model **SMS**™

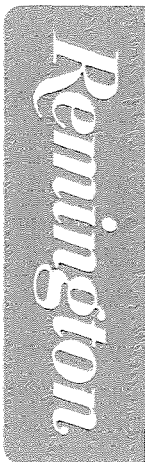
Action

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: **RE00112659** Serial: C6498846 Model: M24 SWS Center Fire
 Verify Repair: ☐ Caliber: 7.62 NATO Produced: 06/19/1990 Repairman:
 Status: Closed 5/22/2006 2:49:13 PM

Address Information

Customer: ☒ Received From Return To: ☐ Received From

Name: **HQ-STARC (-) COARNG** **HQ-STARC (-) COARNG**

Address 1: **6848 S REVERE PARKWAY** **6848 S REVERE PARKWAY**

Address 2: **ATTN. USPFO-TRANS.** **ATTN. USPFO-TRANS.** PO Box:

City: **CENTENNIAL** **CENTENNIAL**

State: **CO** Zip Code: **80112** Country: **US** State: **CO** Zip Code: **80112** Country: **US**

FFL: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Contact / Condition **Problems** **Estimate** **History / Status** **Shipping / Billing**

Contact Information

Phone: **NA**

Fax:

Email:

Comments:

Received Condition

Condition: **Fair**

Condition Notes:

CSR Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	3
A010	Hard Case	1
A017	Scope Base	1
A026	Scope	1
A045	Bi Pod	1
A057	Fit and Rear Sgt Base	1
C000	SCOPE CASE	1

Repair Search **Refresh** **Close**

nagel 5/23/2006 7:24 AM CAPS NUM INS SCFL

start 2 Micr... Microsof... 2 Inter... Part Sea... Arms Se... 7:24 AM

Serial Number: **C6498846**

Model: **M24 SWS**



RE00112659

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6498846.__0
FILE DATE AND TIME: 06/14/2006 16:26

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.019
The Average Y Centroid of the Five Target Set:	0.080
The Average Point of Impact of the Five Target Set:	0.082
The Average Mean Radius of the Five Target Set:	0.589
The Distance from POA to Centroid Target #1:	0.389
The Distance from Centroid Target #2 to Centroid Target #1:	0.369
The Distance from Centroid Target #3 to Centroid Target #1:	0.475
The Distance from Centroid Target #4 to Centroid Target #1:	0.477
The Distance from Centroid Target #5 to Centroid Target #1:	0.329

SERIAL NUMBER: C6498846. 0

TARGET NUMBER: 1

FILE DATE: 06/14/2006

FILE TIME: 16:26

POINT#	X	Y
1:	-0.647	0.586
2:	-0.511	1.243
3:	-0.280	1.084
4:	-0.181	0.971
5:	0.149	0.730
6:	0.178	0.397
7:	0.302	-0.149
8:	0.604	0.353
9:	-0.262	-0.587
10:	-0.107	-0.809

X CENTROID: -0.075

Y CENTROID: 0.382

POA TO CENTROID: 0.389

HORZ SPREAD: 1.251

VERT SPREAD: 2.052

GROUP SPREAD: 2.091

MIN RADIUS: 0.254

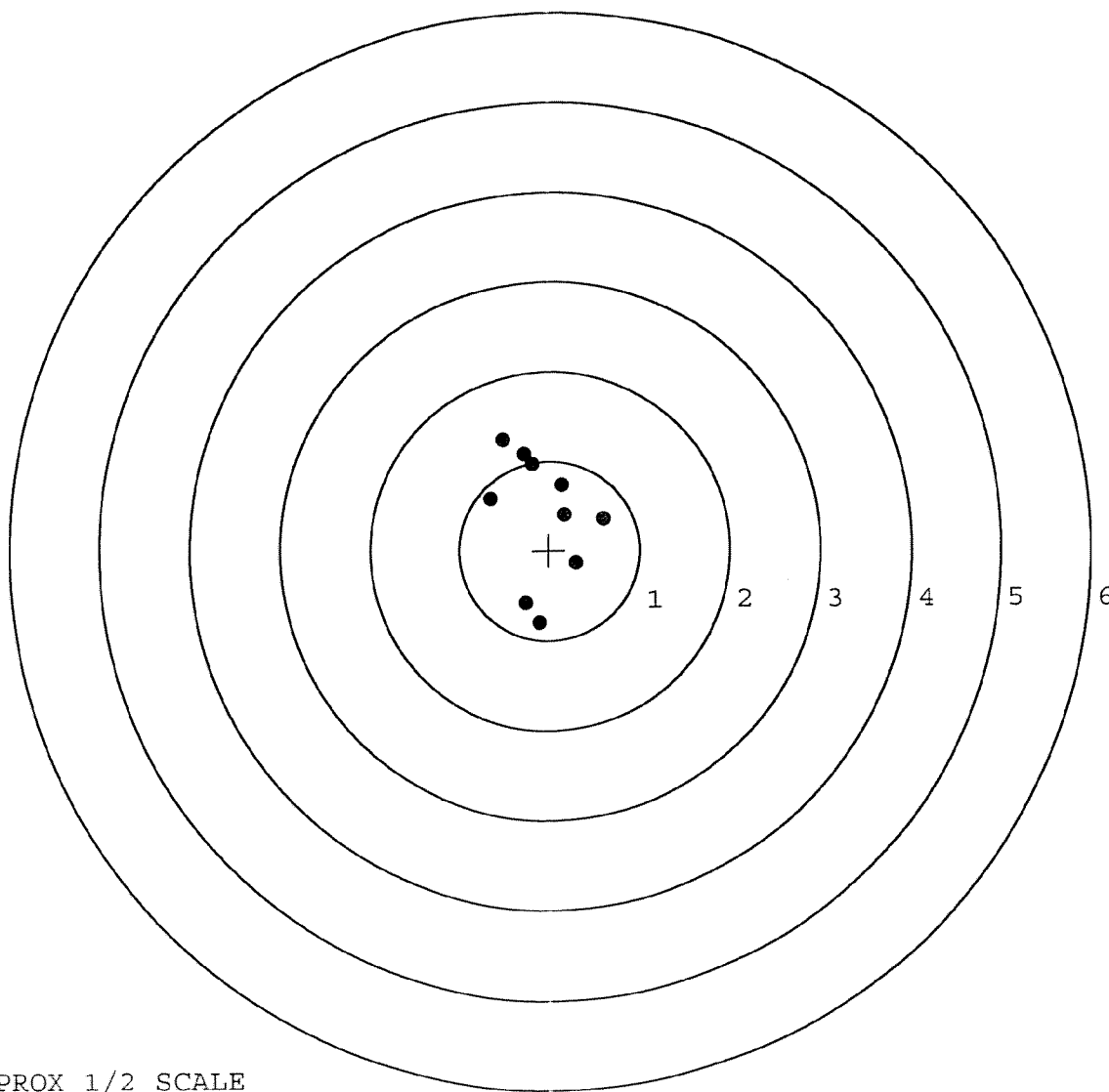
MAX RADIUS: 1.191

MEAN RADIUS: 0.708

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

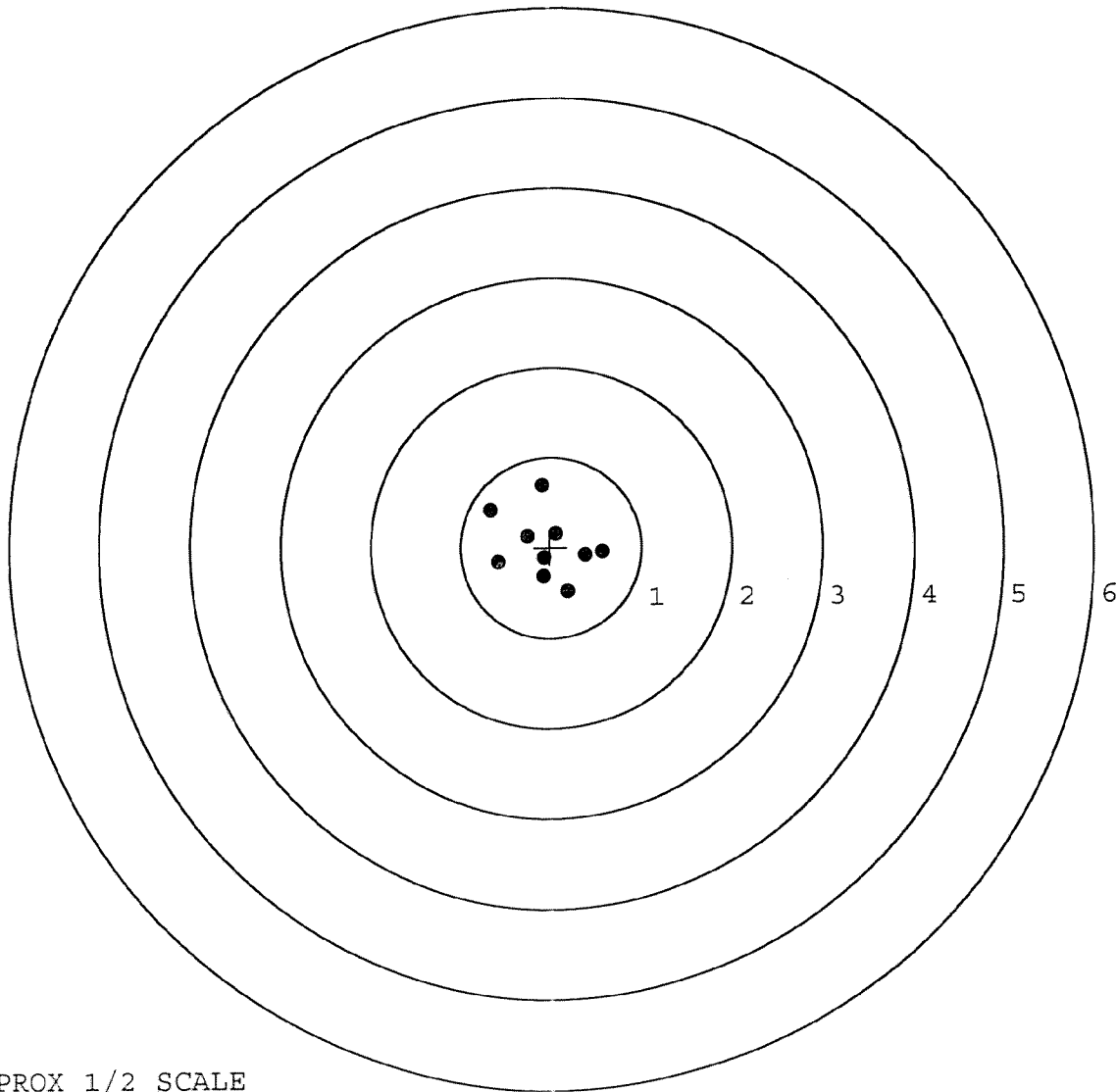


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498846. __0
 TARGET NUMBER: 2
 FILE DATE: 06/14/2006
 FILE TIME: 16:26

POINT#	X	Y
1:	-0.662	0.416
2:	-0.087	0.692
3:	-0.581	-0.164
4:	-0.260	0.122
5:	0.063	0.153
6:	0.569	-0.058
7:	0.386	-0.092
8:	0.188	-0.492
9:	-0.079	-0.321
10:	-0.071	-0.116

X CENTROID: -0.053
 Y CENTROID: 0.014
 POA TO CENTROID: 0.055
 HORZ SPREAD: 1.231
 VERT SPREAD: 1.184
 GROUP SPREAD: 1.319
 MIN RADIUS: 0.131
 MAX RADIUS: 0.729
 MEAN RADIUS: 0.449
 # IN 1 IN DIAMETER: 5
 # IN 2 IN DIAMETER: 10
 # in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498846. 0

TARGET NUMBER: 3

FILE DATE: 06/14/2006

FILE TIME: 16:26

POINT#	X	Y
1:	0.145	0.673
2:	0.386	0.645
3:	0.519	0.546
4:	0.485	0.040
5:	0.953	-0.447
6:	0.639	-0.915
7:	0.119	-0.057
8:	-0.170	-0.543
9:	-0.478	-0.112
10:	-0.362	0.299

X CENTROID: 0.224

Y CENTROID: 0.013

POA TO CENTROID: 0.224

HORZ SPREAD: 1.431

VERT SPREAD: 1.588

GROUP SPREAD: 1.663

MIN RADIUS: 0.126

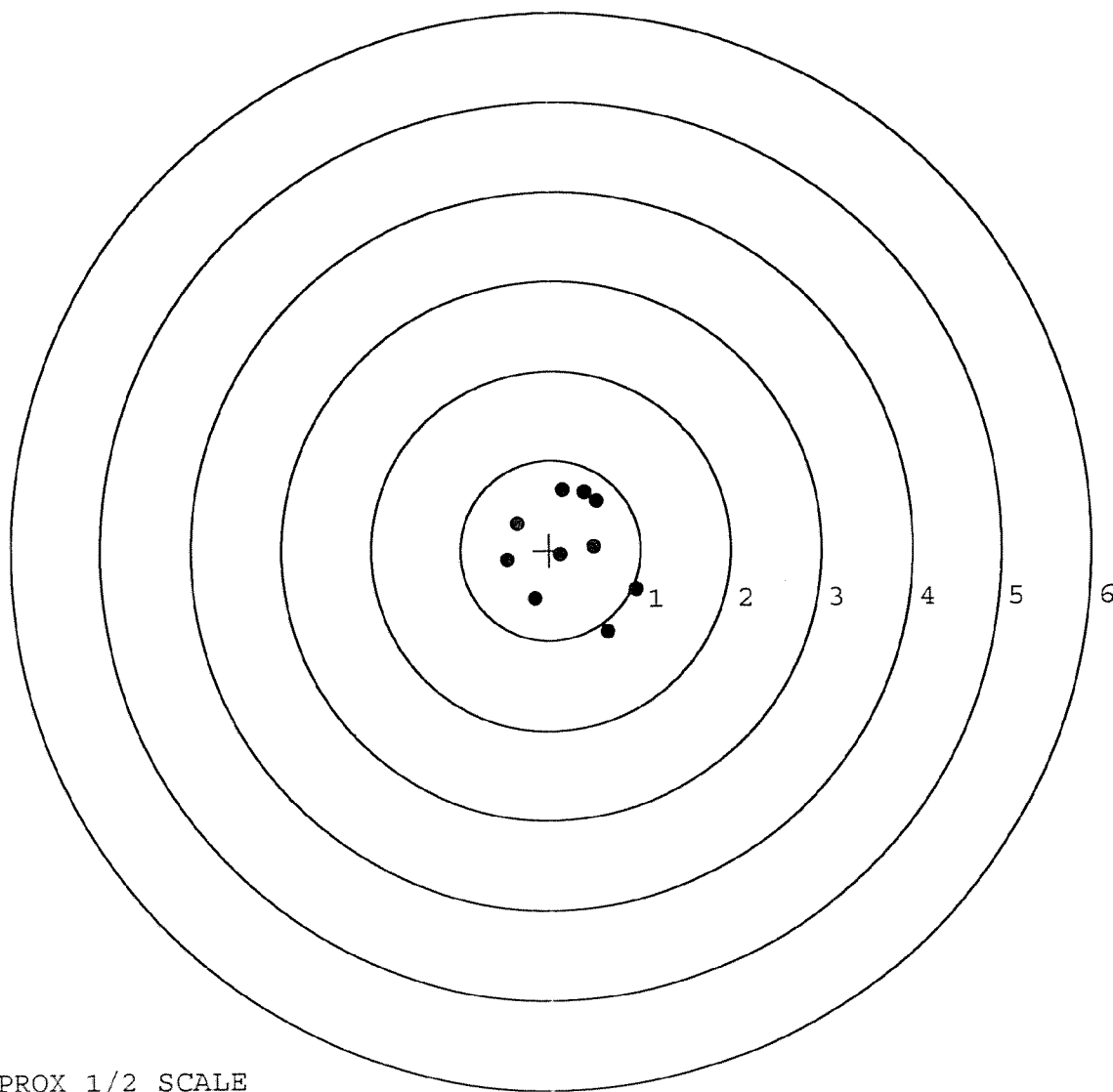
MAX RADIUS: 1.017

MEAN RADIUS: 0.624

IN 1 IN DIAMETER: 2

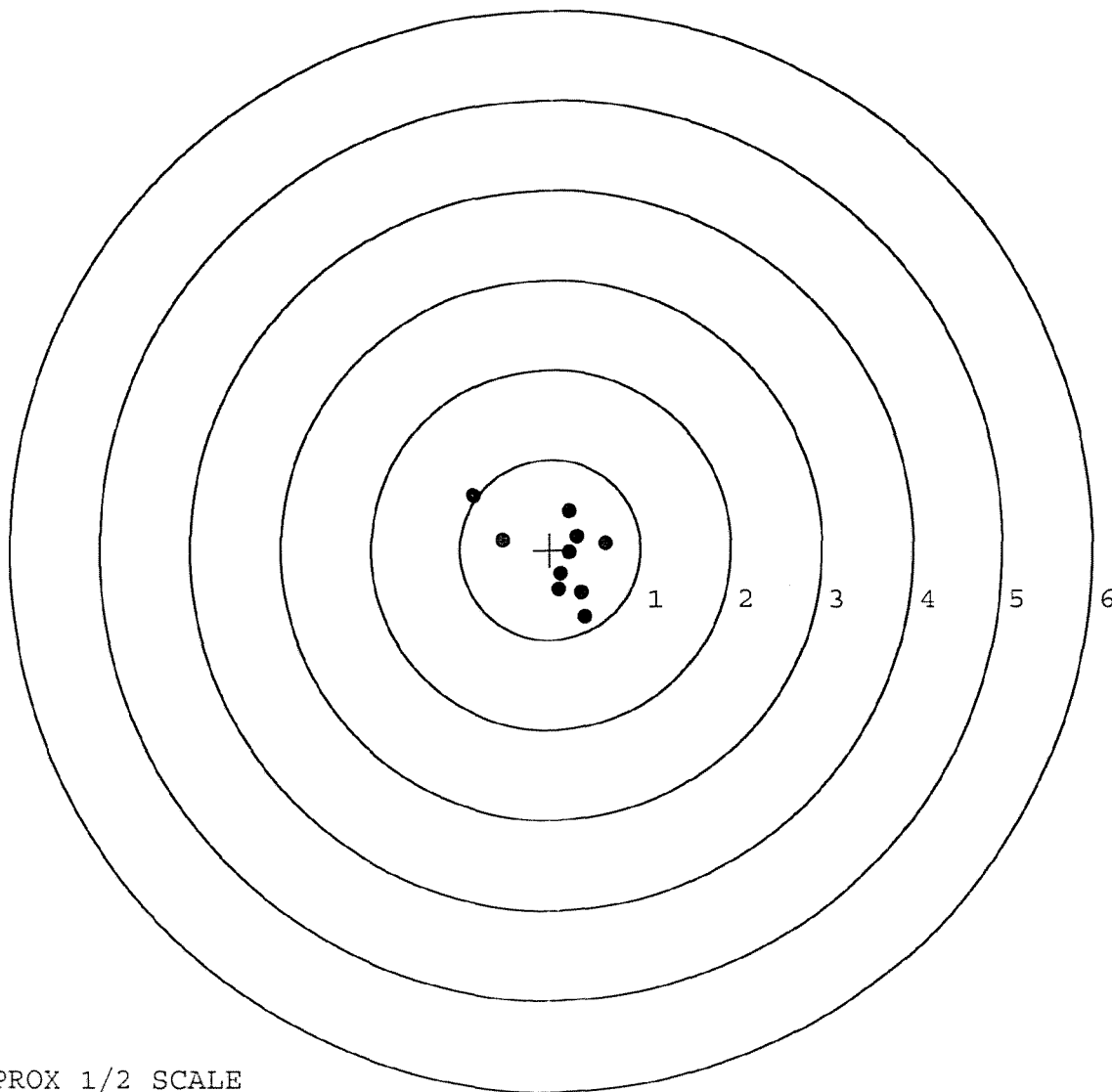
IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498846. __0	POINT#	X	Y
TARGET NUMBER: 4	1:	-0.855	0.595
FILE DATE: 06/14/2006	2:	-0.524	0.113
FILE TIME: 16:26	3:	0.212	0.423
	4:	0.299	0.143
X CENTROID: 0.093	5:	0.618	0.069
Y CENTROID: -0.064	6:	0.216	-0.038
POA TO CENTROID: 0.113	7:	0.122	-0.273
HORZ SPREAD: 1.473	8:	0.102	-0.444
VERT SPREAD: 1.345	9:	0.353	-0.480
GROUP SPREAD: 1.831	10:	0.388	-0.750
MIN RADIUS: 0.126			
MAX RADIUS: 1.155			
MEAN RADIUS: 0.509			
# IN 1 IN DIAMETER: 5			
# IN 2 IN DIAMETER: 9			
# in 3 IN DIAMETER: 10			



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6498846. __0

TARGET NUMBER: 5

FILE DATE: 06/14/2006

FILE TIME: 16:26

POINT#	X	Y
1:	-0.925	0.383
2:	-0.865	-0.075
3:	-0.416	-0.171
4:	-0.194	-0.835
5:	1.311	-0.392
6:	0.347	0.165
7:	0.176	-0.051
8:	-0.053	0.169
9:	-0.171	0.428
10:	-0.137	0.914

X CENTROID: -0.093

Y CENTROID: 0.054

POA TO CENTROID: 0.107

HORZ SPREAD: 2.236

VERT SPREAD: 1.749

GROUP SPREAD: 2.366

MIN RADIUS: 0.122

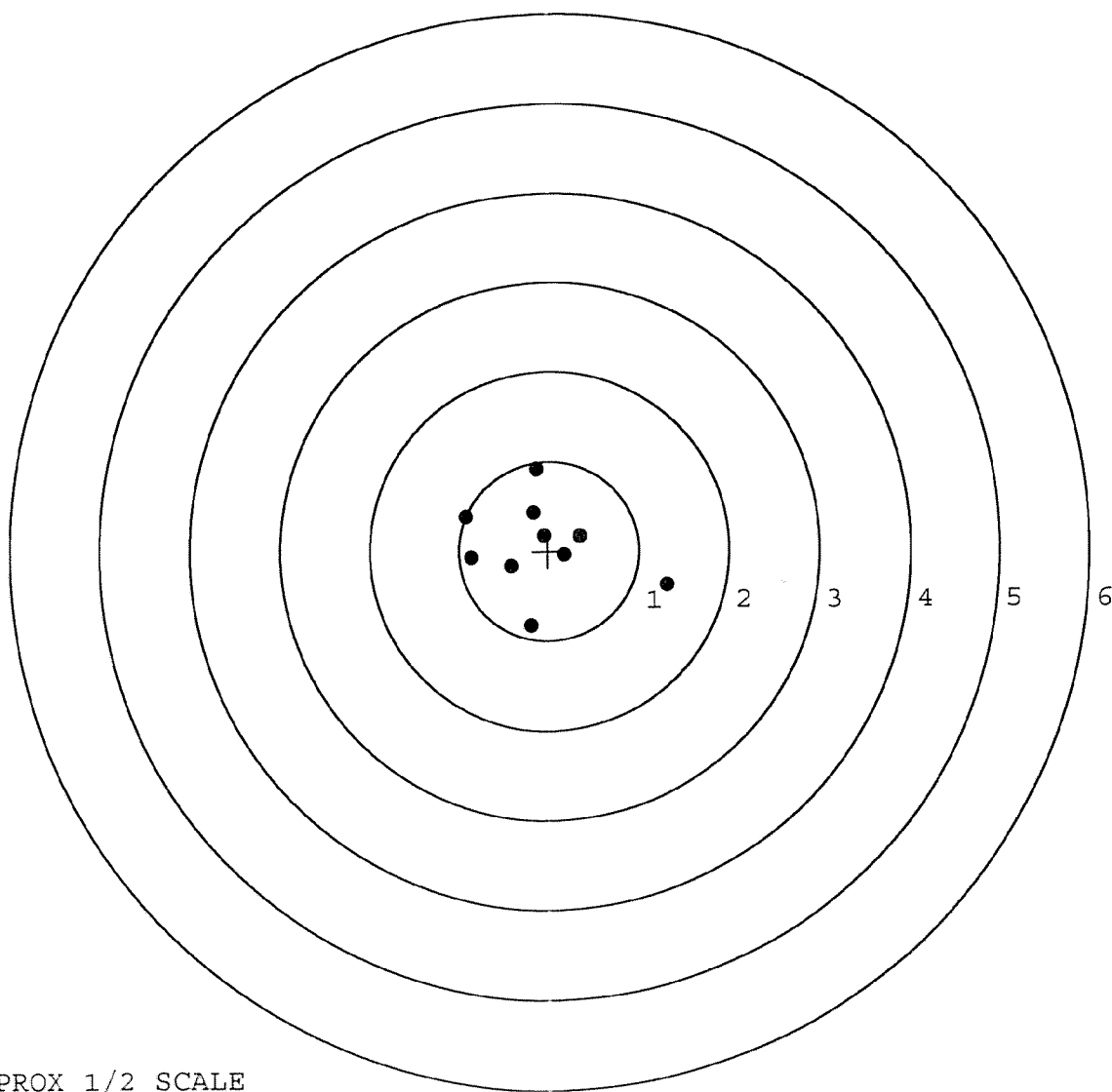
MAX RADIUS: 1.473

MEAN RADIUS: 0.655

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

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)

DATE 6-1-06

TESTER R.P.

	2.50 LBS INITIAL	2.50 LBS AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50 LBS		COMMENTS
PULL #1	246	255		253	
PULL #2	246	266		247	
PULL #3	231	257		243	
PULL #4	247	261		243	
PULL #5	242	260		255	
TOTAL	1212	1299		1241	
AVERAGE	242	259		248	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES		COMMENTS
PULL #1	309	303		
PULL #2	313	299		
PULL #3	316	304		
PULL #4	316	309		
PULL #5	318	307		
TOTAL	1572	1522		
AVERAGE	314	304		

	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	412	414		415
PULL #2	410	415		400
PULL #3	411	407		407
PULL #4	412	406		404
PULL #5	411	412		403
TOTAL	2056	2044		2029
AVERAGE	411	408		405

R & E NUMBER	112659			
SERIAL NUMBER	C6498846			
LOG-IN DATE	5-22-06			
OPERATION #	OPERATION NAME		DATE	INITIAL
500	DIS-ASSEMBLE GUN		6-5-06	RTK
505	RE-BARREL		6-6-06	RTK
560	ASSEMBLE		6-7-06	RTK
600	PROOF	MAGNA-FLUX	6-7-06	TRW
605	CHECK HEADSPACE	INSPECTED	6-7-06	RTK
610	DIS-ASSEMBLE GUN	JUN 09 2006	6-7-06	RTK
612	MAGNAFLUX	OPERATOR <u>CPD</u>	6-9-06	APD
510	DRILL AND TAP		6-8-06	TRW
615	ROLLMARK CALIBER		6-9-06	CW
618	ROTO-BLAST		6-9-06	LB
620	APPLY COATINGS		6/13/06	PS
625	FINAL ASSEMBLY		6-14-06	RTK
640	FUNCTION TEST AND	PASS FAIL	6-14-06	msh
650	TARGET	PASS FAIL	6-14-06	msh
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
670	FINAL INSPECTION		6-20-06	R.P.D.
	A) HEADSPACE	PASS FAIL	6-20-06	R.P.D.
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	2.38 3.42 2.44 3.43 2.37	6-15-06 RA
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS MAX	5.2 5.0 5.0	6-15-06 RA
	G) SAFETY OFF FORCE	2 LBS MIN	3.2 3.0 3.0	6-15-06 RA
	I) FIRING PIN INDENT	.020	.0225 .0225 .0225	6-15-06 RA
690	PACK		6-28-06	RA

Remington
REG. U.S. PAT. & TM. OFF.

DUPONT
REG. U.S. PAT. & TM. OFF.

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

MODEL 700™ H24

SERIAL NO.
C6498846

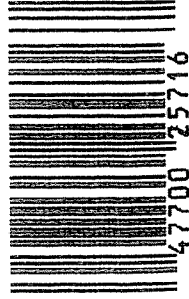
ORDER NO.
5715

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



5715 C6498846

UPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6498846

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	5 17	90	RW
600	Proof	5 17	90	RW
607	Check Headspace	5 17	90	RW
610	Dis-assemble Gun	5 17	90	RW
612	Magnaflux Barrel Action		5/22/90	KCR
	Magnaflux Bolt		5/22/90	KCR
615	Rollmark Caliber		5/22/90	GS.
617	Drill and Tap Sight Holes		5/23/90	LB
618	Polish Barrel RB		5/24/90	WB
620	Apply Coatings (Barrel Action)		6-4-90	TA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		6/4/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		6/4/90	RW
	C) Inspect Ejector Hole for Chamfer		6/4/90	RW
	D) Oil Firing Pin Ass'y		6/4/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		6/8/90	RL

BARBER - M24 0008833		READINGS					DATE	INIT
op. #	OP. NAME							
625 cont.	F) Safety On Force	3	3	3			6/12/90	JL
	G) Safety Off Force	3	3	3			6/12/90	JL
	H) Trigger Pull Test & Retainability						6/8/90	JL
	I) Firing Pin Indent	.023	.023	.023			6/11/90	WB
	J) Assemble Stock						6/13/90	RW
	K) Assemble Swivel Studs						6/18/90	WB
	L) Attach Front and Rear Sight Assemblies						6/13/90	RW
	M) Iron Sight Alignment						6/13/90	RW
	N) Detach Front & Rear Sights & place in numbered container						6/13/90	RW
	O) Attach Scope to Rifle						6/13/90	JL
	P) Detach & Attach Scope 20 Times						6/13/90	JL
640	Gallery Target & Test						6-14-90	AC
	A) Time						6-14-90	AC
	B) Malfunctions						6-14-90	AC
	C) Pierced Primers						6-14-90	AC
	D) Optical Clarity of Scope						6-14-90	AC
645	Inspect for Live Ammo						6-14-90	AC
655	Final Inspection						6/18/90	WB
	A) Headspace							
	B) Trigger Pull	2.61	2.61	2.64	2.56	2.56	6/18/90	RW
	C) Function						6/18/90	WB
660	Pack						6-19-90	DH

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6498846

DATE 6/8/90

TESTER JLL

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.32	2.52	2.48	2.61	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.28	2.47	2.45	2.61	
PULL #3	2.11	2.44	2.36	2.64	
PULL #4	2.29	2.45	2.30	2.56	
PULL #5	2.28	2.37	2.40	2.56	
TOTAL	11.28	12.30	11.99	12.98	
AVG.	2.256	2.46	2.398	2.59	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.44	3.22		
PULL #2	3.38	3.24		
PULL #3	3.16	3.22		
PULL #4	3.40	3.18		
PULL #5	3.28	3.27		
TOTAL	16.66	16.13		
AVG.	3.332	3.226		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.16	4.41		4.20
PULL #2	4.40	4.34		4.20
PULL #3	4.46	4.40		4.31
PULL #4	4.27	4.17		4.25
PULL #5	4.37	4.46		4.13
TOTAL	21.66	21.78		21.09
AVG.	4.332	4.356		4.218

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6498846
18 Jun 1990

CENTROIDAL DISTANCES

Ø TO	1	.369131
1 TO	2	.567819
1 TO	3	1.33954
1 TO	4	.905457
1 TO	5	.481661

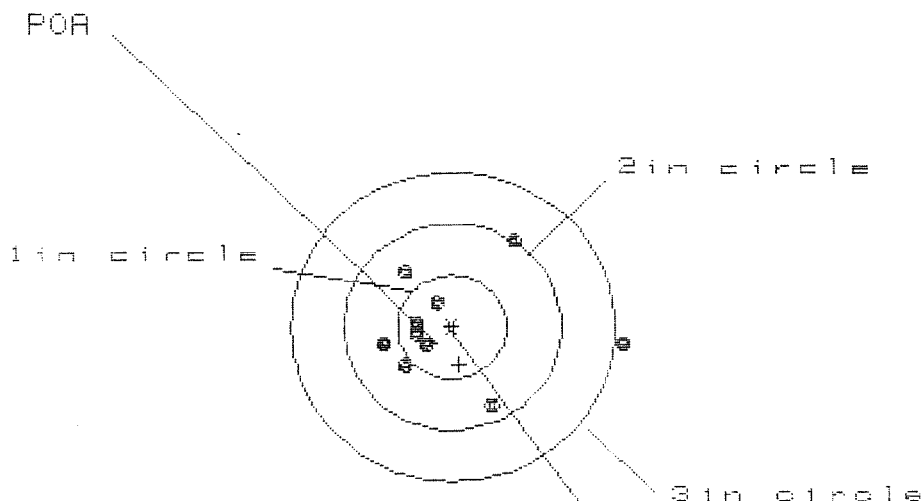
$\begin{matrix} 1 \\ 5 \\ 2 \\ 4 \\ 3 \end{matrix} +$
 $\leftarrow$ ---- POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.3204
 THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.2108
 THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .383527
 THE AMR FOR THIS RIFLE IS: .8158

15 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/0649B846

CENTERFIRE PATTERNS # 1



OF SHOTS = 10

IN CIR

1 in = 4

2 in = 8

3 in = 8

HS = 2.241

VS = 1.591

GS = 2.241

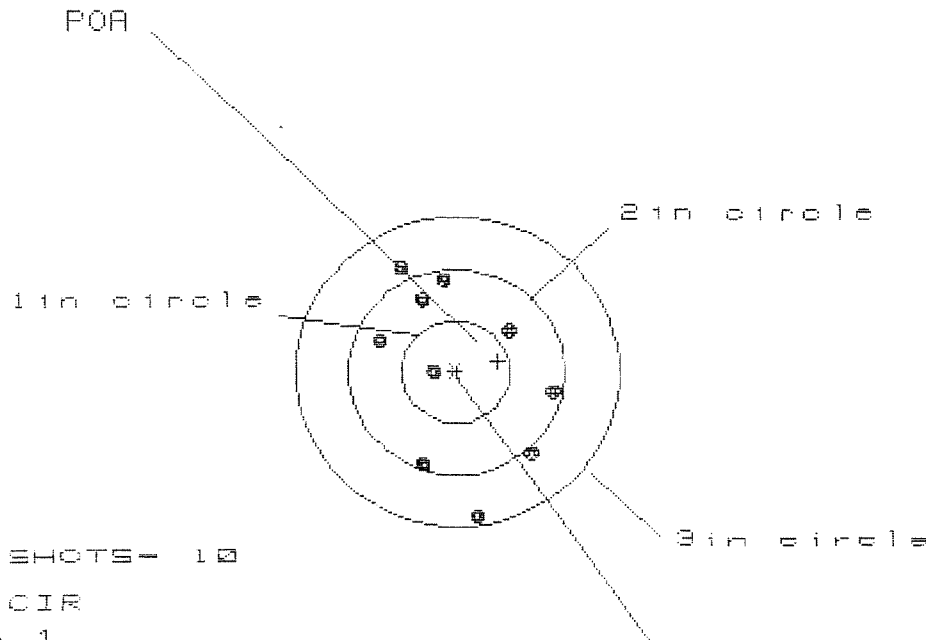
CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.596	.749	.612
MINIMUM X	-.645	-.468	-.374
MAXIMUM Y	.793	.774	.645
MINIMUM Y	-.798	-.817	-.720
CENTROID X	-.067	-.244	-.338
CENTROID Y	.363	.382	.285
POA TO CENTROID in.	.369	.453	.442
MIN RADIUS	.269	.134	.073
MEAN RADIUS	.661	.482	.372
MAX RADIUS	1.605	1.078	.945
HORIZONTAL SPREAD	2.241	1.217	.986
VERTICAL SPREAD	1.591	1.591	1.365
EXTREME SPREAD	2.241	1.608	1.547
NUMBER IN ONE INCH CIRCLE =	4		
NUMBER IN TWO INCH CIRCLE =	9		
NUMBER IN THREE INCH CIRCLE =	9		

15 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6498846

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1in = 1

2in = 7

3in = 10

HS= 1.655

VS= 2.418

GS= 2.503

CENTROID *

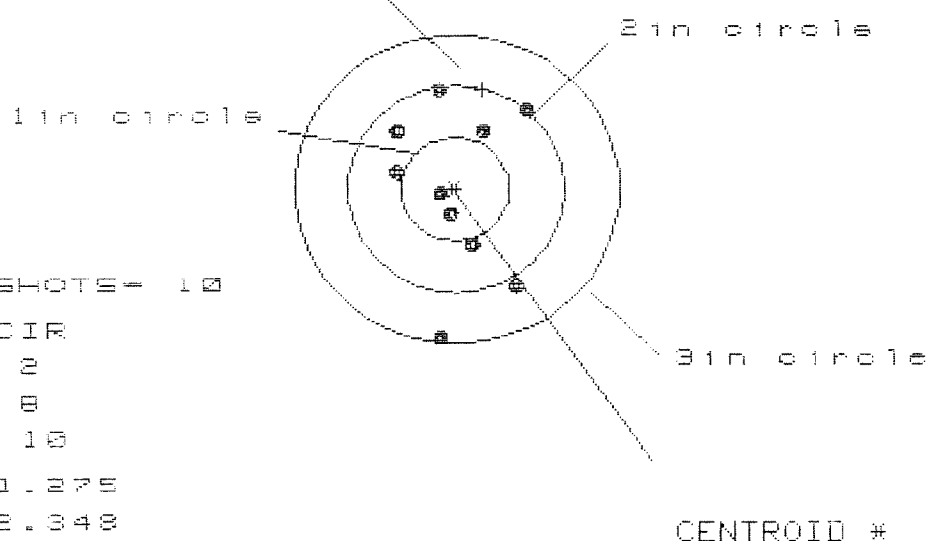
PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.900	.916	.856
MINIMUM X	:	-.755	-.739	-.799
MAXIMUM Y	:	.987	.828	.843
MINIMUM Y	:	-1.431	-1.032	-.929
CENTROID X	:	-.390	-.406	-.346
CENTROID Y	:	-.104	.055	-.048
POA TO CENTROID in.	:	.404	.410	.349
MIN RADIUS	:	.160	.216	.212
MEAN RADIUS	:	.871	.787	.769
MAX RADIUS	:	1.439	1.163	1.044
HORIZONTAL SPREAD	:	1.655	1.655	1.655
VERTICAL SPREAD	:	2.418	1.860	1.772
EXTREME SPREAD	:	2.503	2.119	1.869
NUMBER IN ONE INCH CIRCLE =			1	
NUMBER IN TWO INCH CIRCLE =			7	
NUMBER IN THREE INCH CIRCLE =			10	

15 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/CG43B846

CENTERFIRE PATTERNS # 3

FOR



OF SHOTS = 10

IN CIR

1in = 2

2in = 8

3in = 10

HS = 1.275

VS = 2.348

GS = 2.349

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.690	.671	.742
MINIMUM X	:	-.585	-.604	-.533
MAXIMUM Y	:	.956	.801	.667
MINIMUM Y	:	-1.392	-1.071	-.777
CENTROID X	:	-.257	-.238	-.309
CENTROID Y	:	-.963	-.808	-.674
FOR TO CENTROID in.	:	.996	.842	.741
MIN RADIUS	:	.153	.244	.324
MEAN RADIUS	:	.745	.672	.595
MAX RADIUS	:	1.403	1.211	.858
HORIZONTAL SPREAD	:	1.275	1.275	1.275
VERTICAL SPREAD	:	2.348	1.872	1.444
EXTREME SPREAD	:	2.349	2.002	1.467
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		10	

15 Jun 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6498846

CENTERFIRE PATTERNS

4

POA

1 in circle

2 in circle

3 in circle

OF SHOTS- 10

IN CIR

1 in = 2

2 in = 6

3 in = 8

HS= 2.406

VS= 2.490

GS= 2.904

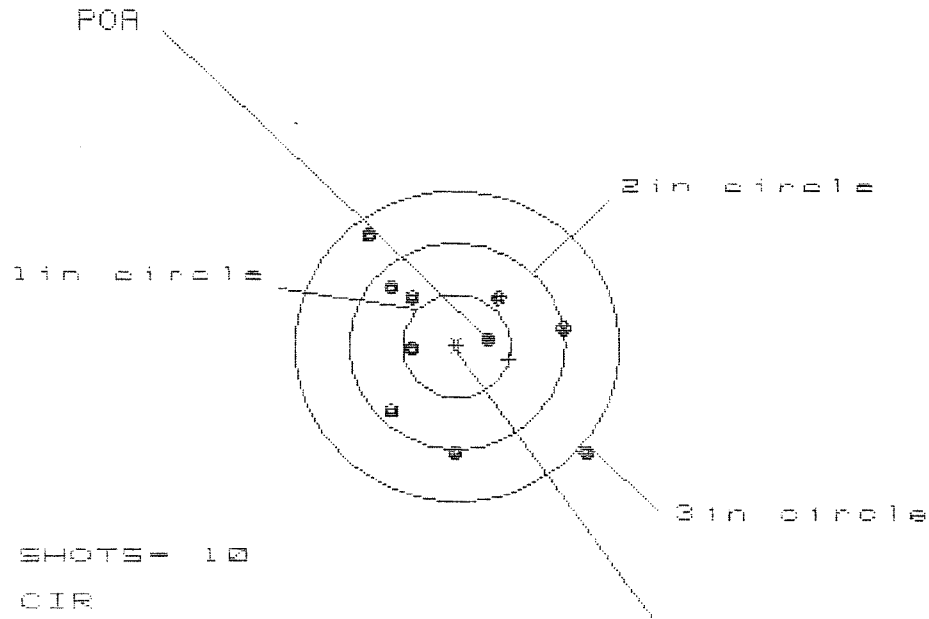
CENTROID *

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.628	.958	.891
MINIMUM X	:	-.778	-.597	-.664
MAXIMUM Y	:	1.345	1.389	1.010
MINIMUM Y	:	-1.145	-1.101	-.927
CENTROID X	:	-.400	-.581	-.514
CENTROID Y	:	-.479	-.523	-.697
POA TO CENTROID in.	:	.624	.782	.866
MIN RADIUS	:	.244	.058	.205
MEAN RADIUS	:	.918	.803	.714
MAX RADIUS	:	1.675	1.489	1.286
HORIZONTAL SPREAD	:	2.406	1.555	1.555
VERTICAL SPREAD	:	2.490	2.490	1.937
EXTREME SPREAD	:	2.904	2.904	2.245
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		8	

15 Jun 1990

FILE:/PATTERNING/CENTERFIRE_PATT/CG43B840

CENTERFIRE PATTERNS # 5



OF SHOTS = 10

IN CIR

1 in = 2

2 in = 6

3 in = 9

HS = 2.055

VS = 2.141

GS = 2.948

CENTROID *

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.208	1.161	1.072
MINIMUM X	:	-.848	-.713	-.568
MAXIMUM Y	:	1.072	.956	.616
MINIMUM Y	:	-1.069	-1.185	-1.065
CENTROID X	:	-.488	-.623	-.534
CENTROID Y	:	.129	.245	.125
POA TO CENTROID in.	:	.505	.669	.548
MIN RADIUS	:	.290	.346	.336
MEAN RADIUS	:	.884	.783	.733
MAX RADIUS	:	1.595	1.193	1.083
HORIZONTAL SPREAD	:	2.056	1.874	1.640
VERTICAL SPREAD	:	2.141	2.141	1.681
EXTREME SPREAD	:	2.948	2.299	1.832
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	