

C6225316

MODEL 700™ M24

Model 700 M24™

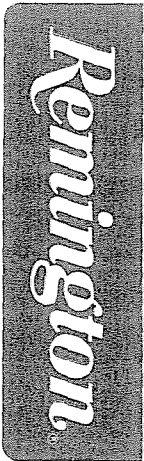
Action

Barrel Length

Capacity

Order No. 5715

*Includes 1 in chamber.



Repair Inquiry

Repair Number: **RE00092445**Serial: C6225316 Model: M24 SWS Center Fire
Caliber: 7.62 NATO Produced: 12/21/1988

Repairman:

Status:

Closed 2/3/2005 1:26:15 PM

Address Information

Customer:

☒ Received From

Return To:

☐ Received From

Name: DEF DIST DEPOT ANNISTON

DEF DIST DEPOT ANNISTON

Address 1:

Address 2:

City: ANNISTON

State: AL

Zip Code: 36201 4199

Country: US

ANNISTON

State: AL

Zip Code: 36201 4199

Country: US

FPL

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

magletj

2/7/2005

10:43 AM

CAPS

NUM

INS

SCPL

start

3

Arms Services Repair

2

Serial Number: **C6225316**Model: **M24 SWS****RE00092445**

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6225316.__0

FILE DATE AND TIME: 09/01/2005 11:16

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.051
The Average Y Centroid of the Five Target Set:	0.011
The Average Point of Impact of the Five Target Set:	0.052
The Average Mean Radius of the Five Target Set:	0.973
The Distance from POA to Centroid Target #1:	0.054
The Distance from Centroid Target #2 to Centroid Target #1:	0.385
The Distance from Centroid Target #3 to Centroid Target #1:	0.179
The Distance from Centroid Target #4 to Centroid Target #1:	0.284
The Distance from Centroid Target #5 to Centroid Target #1:	0.281

BARBER - M24 0012612

SERIAL NUMBER: C6225316. __0

TARGET NUMBER: 1

FILE DATE: 09/01/2005

FILE TIME: 11:16

POINT#	X	Y
1:	1.107	-0.945
2:	0.938	-0.227
3:	0.317	-0.740
4:	-1.044	-1.481
5:	-0.087	-0.284
6:	-0.366	-0.104
7:	0.411	0.529
8:	0.114	0.817
9:	-1.382	0.591
10:	0.449	2.133

X CENTROID: 0.046

Y CENTROID: 0.029

POA TO CENTROID: 0.054

HORZ SPREAD: 2.489

VERT SPREAD: 3.614

GROUP SPREAD: 3.910

MIN RADIUS: 0.340

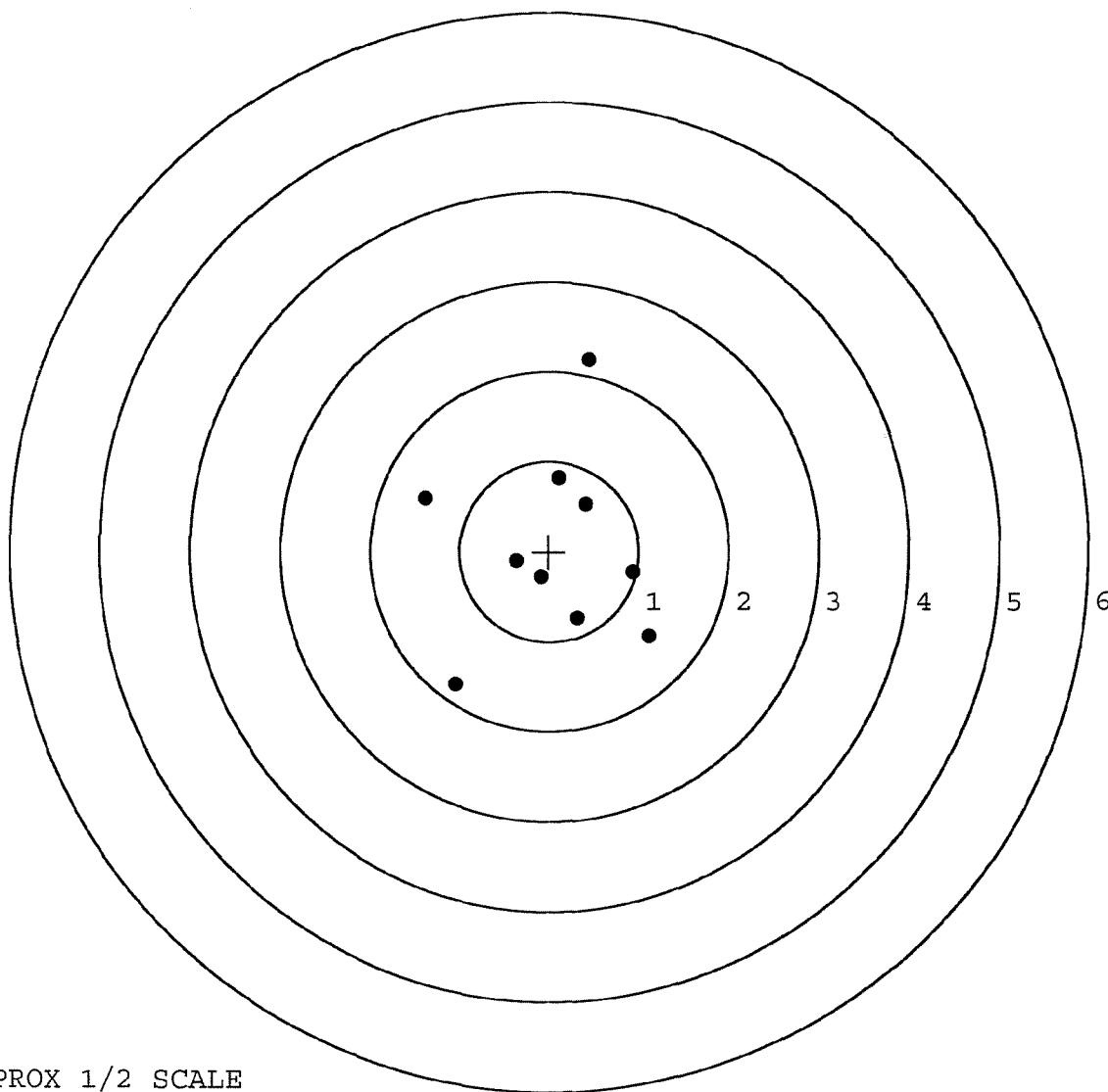
MAX RADIUS: 2.142

MEAN RADIUS: 1.091

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 7



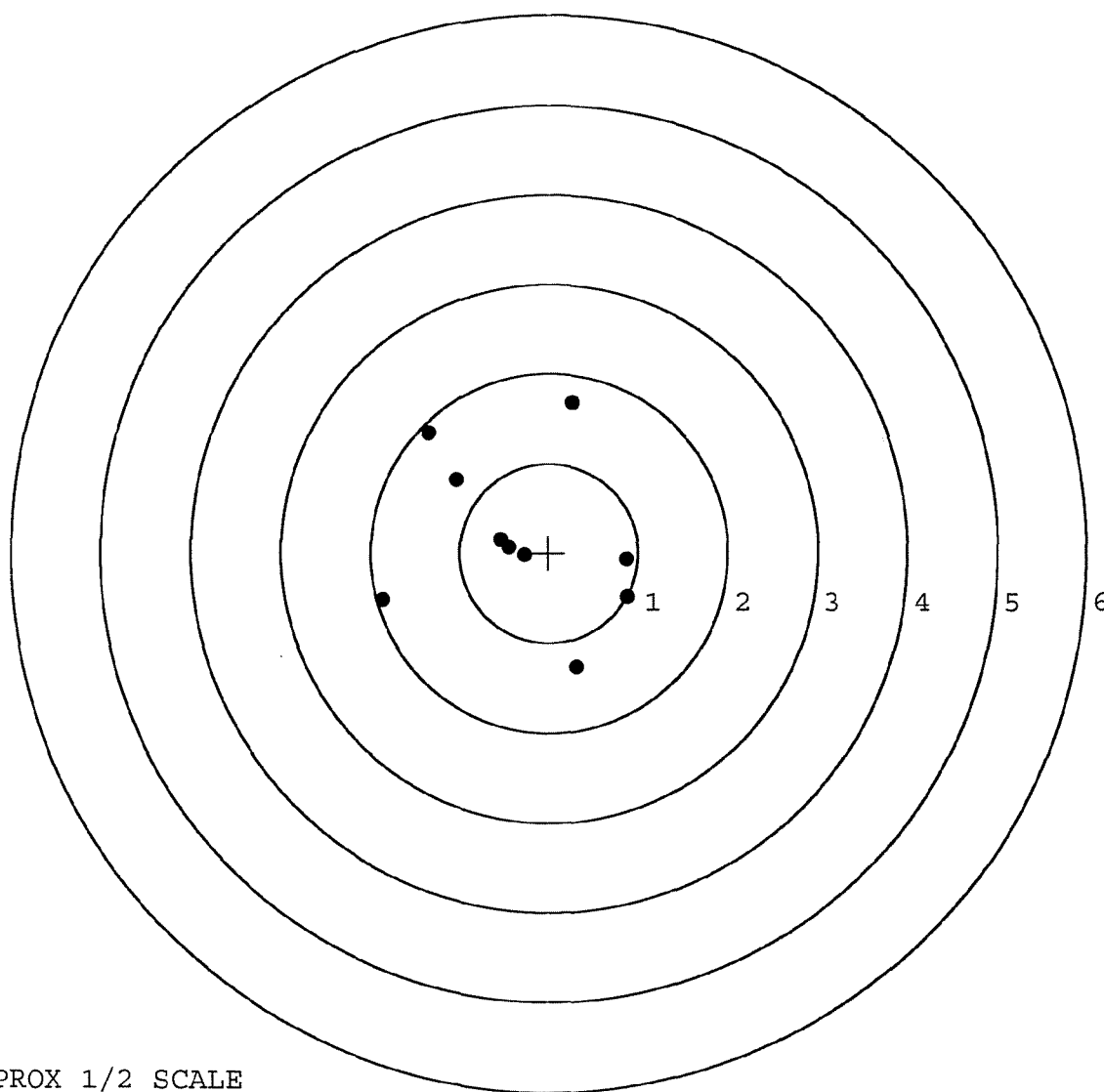
TARGET APPROX 1/2 SCALE

BARBER - M24 0012613

SERIAL NUMBER: C6225316. __0
 TARGET NUMBER: 2
 FILE DATE: 09/01/2005
 FILE TIME: 11:16

POINT#	X	Y
1:	0.316	-1.278
2:	0.885	-0.500
3:	0.879	-0.078
4:	-0.271	-0.031
5:	-0.442	0.064
6:	-0.538	0.152
7:	-1.864	-0.530
8:	-1.036	0.815
9:	-1.349	1.338
10:	0.264	1.675

X CENTROID: -0.316
 Y CENTROID: 0.163
 POA TO CENTROID: 0.355
 HORZ SPREAD: 2.749
 VERT SPREAD: 2.953
 GROUP SPREAD: 3.064
 MIN RADIUS: 0.160
 MAX RADIUS: 1.696
 MEAN RADIUS: 1.060
 # IN 1 IN DIAMETER: 3
 # IN 2 IN DIAMETER: 4
 # in 3 IN DIAMETER: 6



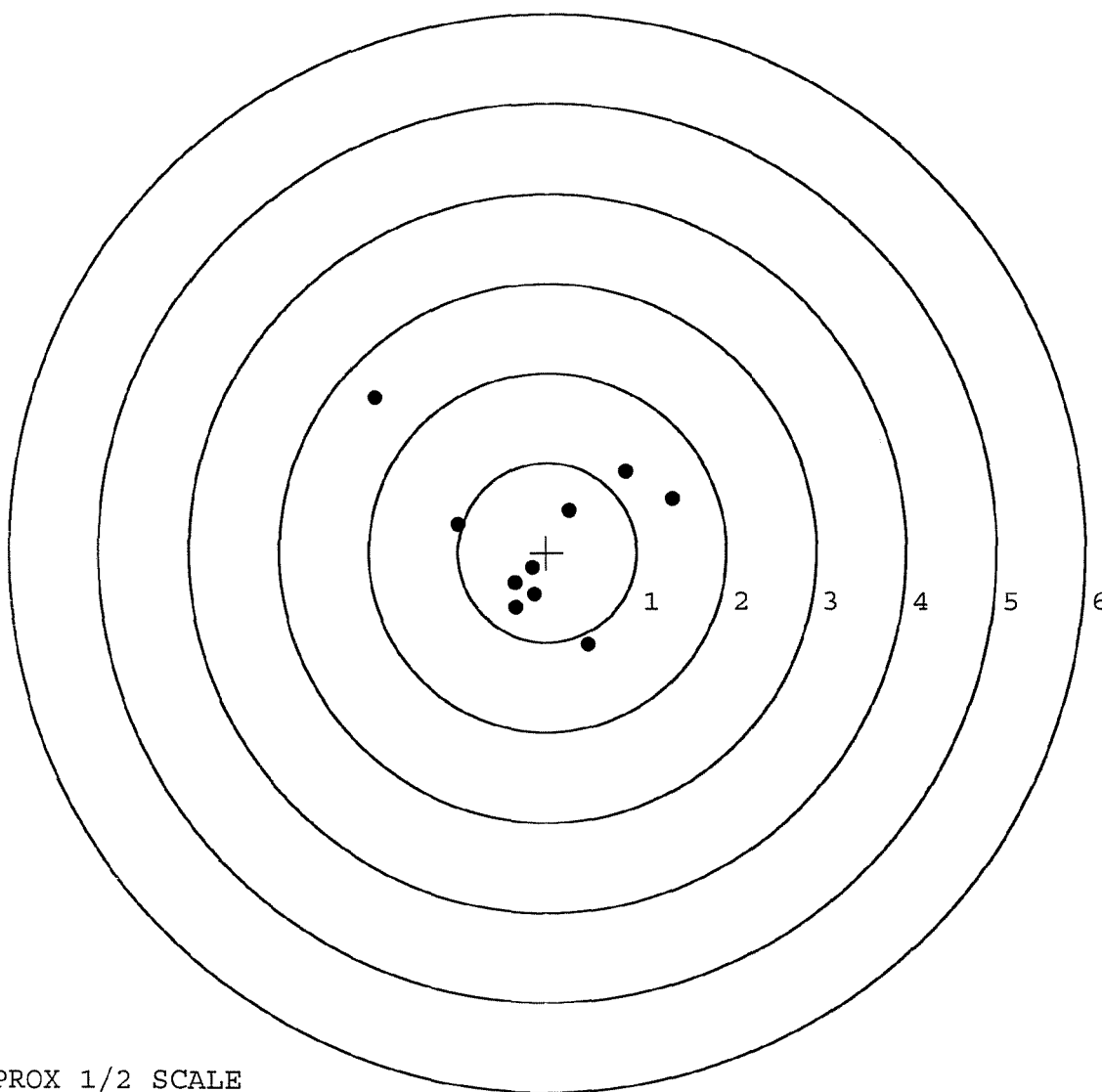
TARGET APPROX 1/2 SCALE

BARBER - M24 0012614

SERIAL NUMBER: C6225316. __0
 TARGET NUMBER: 3
 FILE DATE: 09/01/2005
 FILE TIME: 11:16

POINT#	X	Y
1:	0.464	-1.034
2:	1.394	0.602
3:	0.883	0.902
4:	0.253	0.469
5:	-0.162	-0.167
6:	-0.145	-0.467
7:	-0.359	-0.342
8:	-0.352	-0.617
9:	-1.005	0.317
10:	-1.933	1.722

X CENTROID: -0.096
 Y CENTROID: 0.138
 POA TO CENTROID: 0.169
 HORZ SPREAD: 3.327
 VERT SPREAD: 2.756
 GROUP SPREAD: 3.653
 MIN RADIUS: 0.313
 MAX RADIUS: 2.425
 MEAN RADIUS: 1.020
 # IN 1 IN DIAMETER: 2
 # IN 2 IN DIAMETER: 6
 # in 3 IN DIAMETER: 8



TARGET APPROX 1/2 SCALE

BARBER - M24 0012615

SERIAL NUMBER: C6225316. __0

TARGET NUMBER: 4

FILE DATE: 09/01/2005

FILE TIME: 11:16

POINT#	X	Y
1:	0.784	-1.175
2:	0.828	-0.502
3:	0.329	-0.432
4:	0.382	0.170
5:	-0.440	-0.572
6:	-0.338	0.168
7:	-1.031	0.036
8:	-0.524	1.376
9:	2.032	-0.194
10:	0.824	-0.122

X CENTROID: 0.285

Y CENTROID: -0.125

POA TO CENTROID: 0.311

HORZ SPREAD: 3.063

VERT SPREAD: 2.551

GROUP SPREAD: 3.072

MIN RADIUS: 0.310

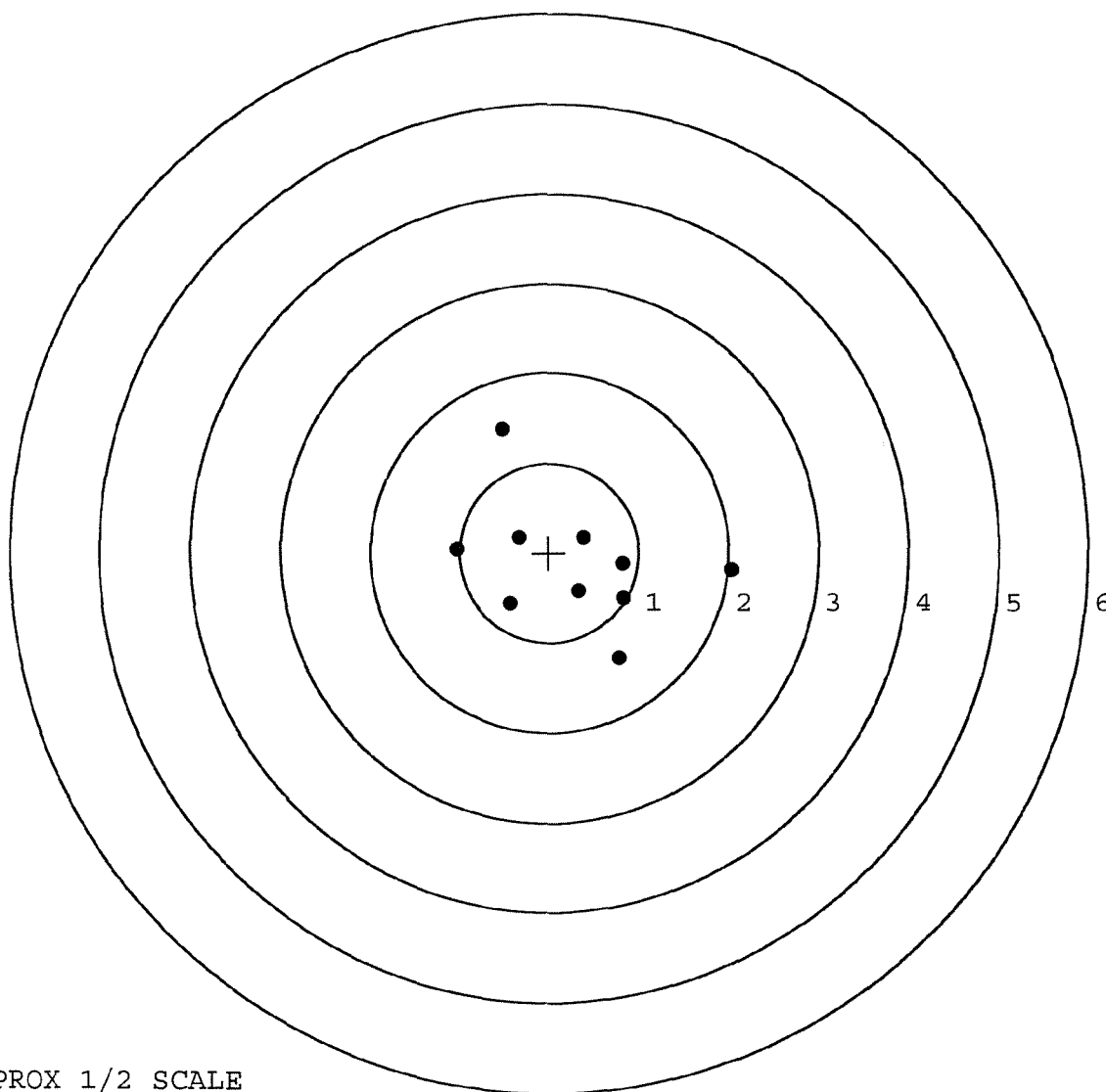
MAX RADIUS: 1.749

MEAN RADIUS: 0.930

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 8



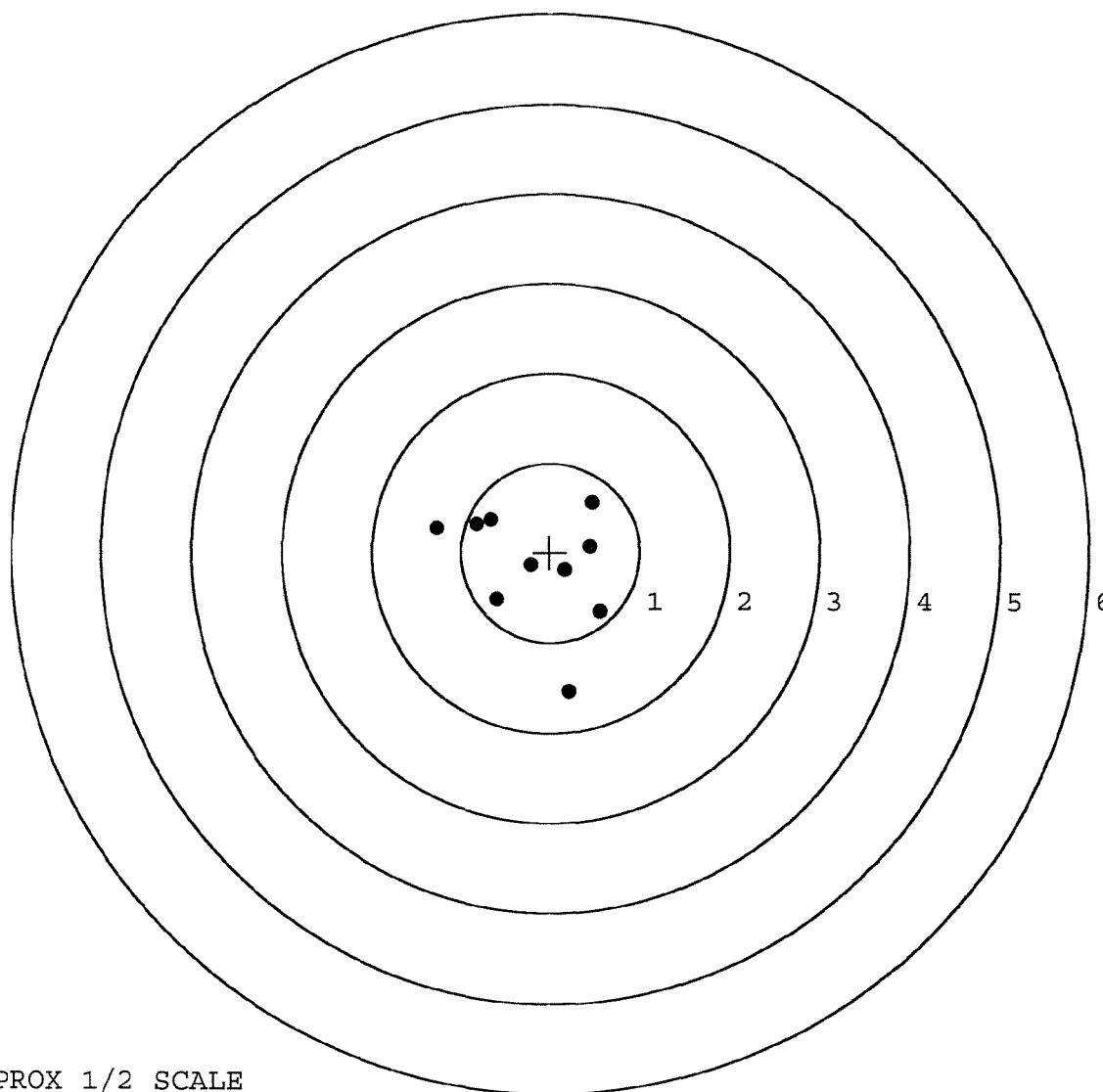
TARGET APPROX 1/2 SCALE

BARBER - M24 0012616

SERIAL NUMBER: C6225316. __0
 TARGET NUMBER: 5
 FILE DATE: 09/01/2005
 FILE TIME: 11:16

POINT#	X	Y
1:	0.215	-1.546
2:	0.557	-0.662
3:	-0.598	-0.527
4:	0.172	-0.202
5:	-0.218	-0.143
6:	0.447	0.070
7:	0.473	0.566
8:	-0.668	0.371
9:	-0.827	0.323
10:	-1.275	0.269

X CENTROID: -0.172
 Y CENTROID: -0.148
 POA TO CENTROID: 0.227
 HORZ SPREAD: 1.832
 VERT SPREAD: 2.112
 GROUP SPREAD: 2.348
 MIN RADIUS: 0.046
 MAX RADIUS: 1.451
 MEAN RADIUS: 0.763
 # IN 1 IN DIAMETER: 2
 # IN 2 IN DIAMETER: 8
 # in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

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

R & E NUMBER	92445		
SERIAL NUMBER	C6225316		
LOG-IN DATE	2-3-05		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	8-16-05	RTZ
560 A	RE-BARREL	8-23-05	RTZ
B	DRILL AND TAP	8-25-05	TRW
575	ASSEMBLE	8-24-05	RTZ
600	PROOF	8-24-05	AC
605	CHECK HEADSPACE	8-24-05	AC
610	DIS-ASSEMBLE GUN	8-25-05	RTZ
612	MAGNAFLUX	8/25/05	unins
615	ROLLMARK CALIBER	8-25-05	CW
618	ROTO-BLAST	8-26-05	LB
620	APPLY COATINGS	8/29/05	RTZ
625 A	FINAL ASSEMBLY	8-31-05	RR
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE	9-6-05	AC
D	SAFETY "OFF" FORCE	9-6-05	AC
E	FIRING PIN INDENT	9-6-05	AC
640	TARGET	9-1-05	TRW
655	FINAL INSPECT	9-6-05	AC
660	PACK	9-12-05	RA
		SHIP DATE	
QAR INSPECTION DATE			

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225316

OP. #	OP. NAME	READINGS	DATE	INITIAL
575 & 580	Assemble Action and stock	9 12 88		FB
600	Proof	9 19 88		RW
607	Check Headspace	9 19 88		RW
610	Dis-assemble gun	9 19 88		RW
612	Magnaflux Barrel Action		9 22 88	P/R.
	Magnaflux Bolt		9 22 88	P/R.
615	Rollmark Caliber			
617	Drill & Tap Sight Holes			
618	Polish Barrel			
620	Apply Coatings (Barrel Action)		10-31-88	TJA
	Apply Coatings (Bolt)		10-31-88	TJA
625	Final Assembly A) Clean inside of Bolt Assembly		11/3/88	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		11/5/88	RW
	C) Inspect Ejector Hole for Chamfer		11/3/88	RW

OVER

OP.#		READINGS	DATE	INITIAL
625	D) Oil Firing Pin Ass'y		11/3/88	RW
cont.	E) Adjust Trigger Pull to Min. Setting and Stake		3/NOV 88	JSB
	F) Safety on Force	4.5 : 4.5 : 4.5	4/NOV 88	JSB
	G) Safety off Force	3 : 3 : 3	4/NOV 88	JSB
	H) Trigger Pull Test & Retainability		3/NOV 88	JSB
	I) Firing Pin Indent	.021 : .021 : .021	4/NOV 88	JSB
	J) Assemble Stock		11/16/88	RW
	K) Attach Front & Rear Sight Assemblies		11/16/88	RW
	L) Iron Sight Alignment		11/16/88	RW
	M) Detach Front & Rear Sights & place in numbered container		11/16/88	RW
	N) Attach Scope to Rifle		11/16/88	W.B.
	O) Detach & Attach Scope 20 times		11/16/88	W.B.
640	Gallery Target & Test	58 R 94L	11/18/88	DH
	A) Optical Clarity of Scope		11/18/88	DH
645	Inspect for Live Ammo		11/18/88	DH
655	Final Inspection			
	A) Headspace		1 Dec 88	JSB
	B) Trigger Pull	2.68 : 2.70 : 2.76	2.80 : 2.80	JSB
	C) Function		1 Dec 88	JSB
	D) Assemble Swivel Studs		1 Dec 88	JSB
660	Pack		14 Dec 88	JSB

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

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

SERIAL NO. C6225316DATE 3/NOV 88TESTER J. H. + J. S.

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.38	2.38	2.57	2.68	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.29	2.35	2.54	2.70	
PULL #3	2.27	2.37	2.51	2.76	
PULL #4	2.27	2.34	2.53	2.80	
PULL #5	2.27	2.36	2.52	2.80	
TOTAL	11.48	11.80	12.67	13.74	
AVG.	2.296	2.36	2.534	2.748	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.26	3.23		
PULL #2	3.26	3.28		
PULL #3	3.25	3.23		
PULL #4	3.22	3.29		
PULL #5	3.23	3.24		
TOTAL	16.22	16.27		
AVG.	3.244	3.254		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.28	4.29		4.19
PULL #2	4.28	4.30		4.27
PULL #3	4.29	4.35		4.25
PULL #4	4.30	4.40		4.23
PULL #5	4.20	4.36		4.30
TOTAL	21.35	21.68		21.24
AVG.	4.27	4.336		4.248

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06225316

CENTROIDAL DISTANCES

0 TO	1	1.26189
1 TO	2	.684798
1 TO	3	.587429
1 TO	4	.534575
1 TO	5	.550622

4 1
5

+ <----FOR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0364
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: 1.0056
THE RESULTING AVERAGE FOI RADIUS FOR THIS RIFLE IS: 1.00628

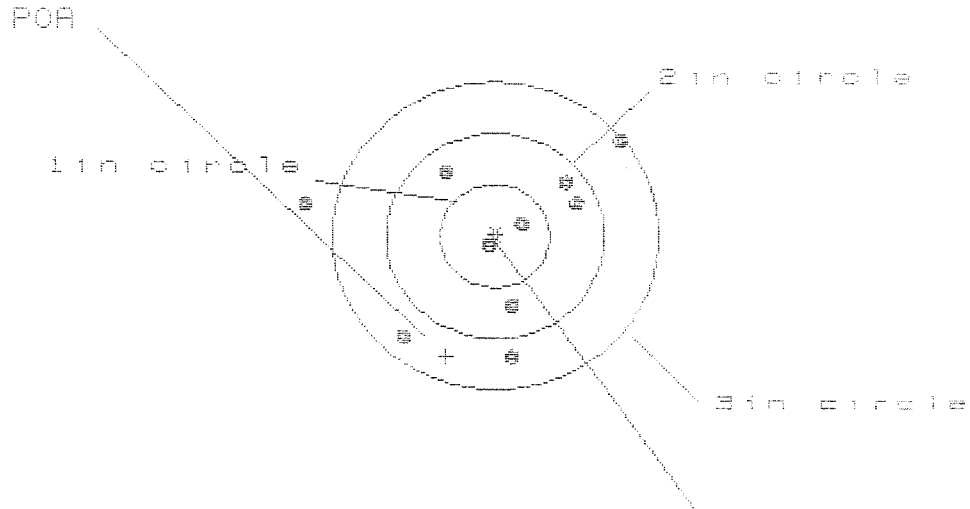
THE AMR FOR THIS RIFLE IS: .8368

28 Nov 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C8225316

CENTERFIRE PATTERNS

1



OF SHOTS = 10

IN CIR

1 in = 2

2 in = 6

3 in = 8

IS = 2.000

VS = 2.000

GS = 2.000

PATTERN #

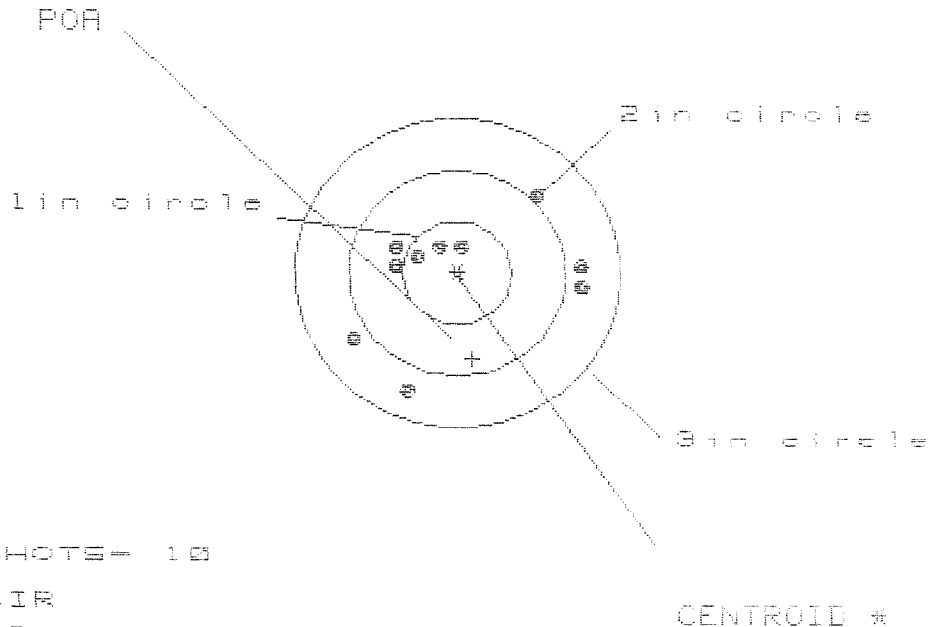
1

SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.159	.965	.717
MINIMUM X	-1.746	-1.034	-.913
MAXIMUM Y	.896	.934	.759
MINIMUM Y	-1.164	-1.126	-1.009
CENTROID X	.455	.649	.528
CENTROID Y	1.177	1.139	1.022
POA TO CENTROID in.	1.261	1.311	1.151
MIN RADIUS	.043	.161	.163
MEAN RADIUS	.919	.813	.750
MAX RADIUS	1.778	1.428	1.260
HORIZONTAL SPREAD	2.905	1.999	1.630
VERTICAL SPREAD	2.060	2.060	1.789
EXTREME SPREAD	2.958	2.771	2.156
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		6	
NUMBER IN THREE INCH CIRCLE =		9	

28 Nov 1988

FILE:/PATTERNING/CENTERFIRE_PATT/08285316

CENTERFIRE PATTERNS # 2



OF SHOTS = 10

IN CIR

1in = 3

2in = 5

3in = 10

HS = 3.140

VS = 1.933

GS = 2.251

PATTERN #

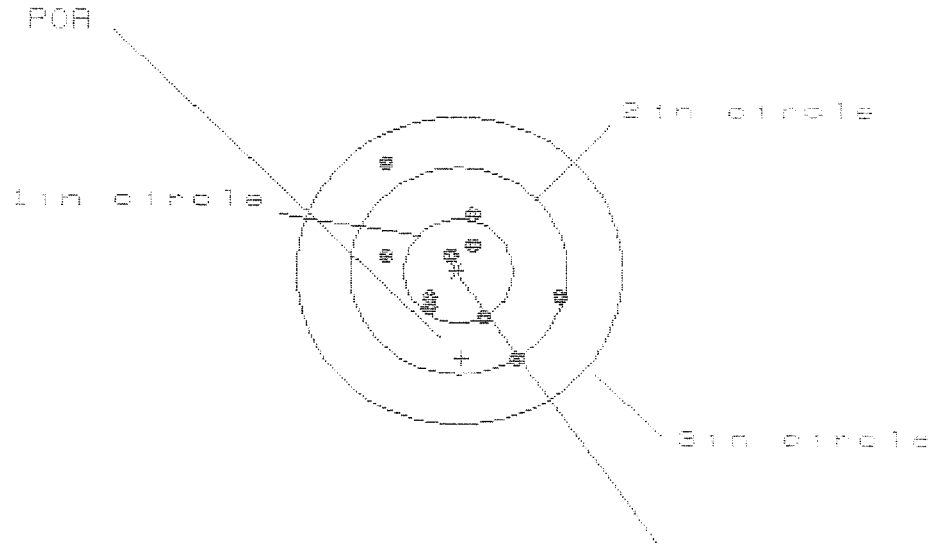
2

SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.184	1.137	1.222
MINIMUM X	-.956	-1.003	-.861
MAXIMUM Y	.755	.624	.618
MINIMUM Y	-1.178	-.743	-.749
CENTROID X	-.140	-.093	-.235
CENTROID Y	.838	.969	.975
POA TO CENTROID in.	.850	.974	1.003
MIN RADIUS	.295	.157	.140
MEAN RADIUS	.802	.725	.636
MAX RADIUS	1.251	1.248	1.243
HORIZONTAL SPREAD	2.140	2.140	2.083
VERTICAL SPREAD	1.933	1.367	1.367
EXTREME SPREAD	2.251	2.251	2.154
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		5	
NUMBER IN THREE INCH CIRCLE =		10	

28 May 1988

FILE:/PATTERNING/CENTERFIRE_PATT/08285318

CENTERFIRE PATTERNS # 3



OF SHOTS = 10

IN CIR

1in = 4

2in = 5

3in = 10

HS = 1.643

VS = 1.828

GS = 2.219

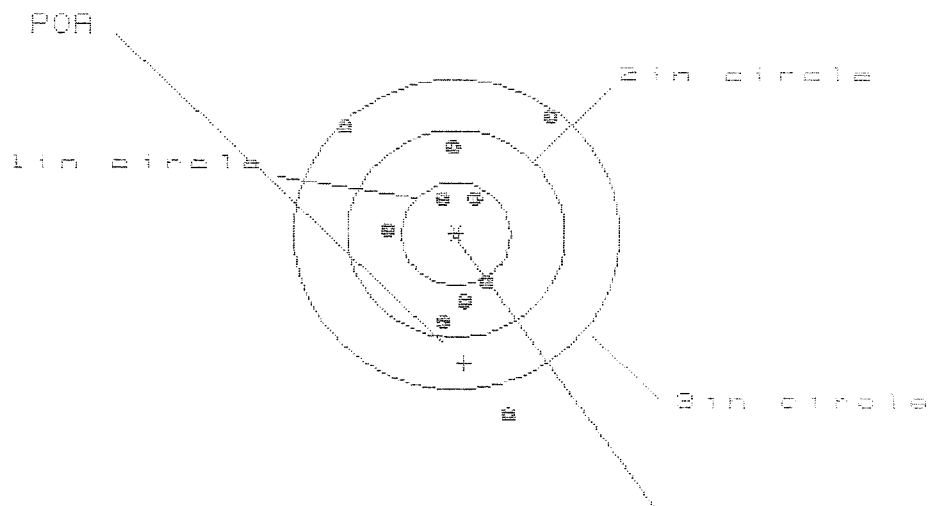
CENTROID #

PATTERN #	3	3	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.949	.872	.933
MINIMUM X	-.694	-.712	-.651
MAXIMUM Y	1.015	.649	.561
MINIMUM Y	-.813	-.700	-.444
CENTROID X	-.033	.044	-.017
CENTROID Y	.850	.737	.825
POA TO CENTROID in.	.850	.738	.825
MIN RADIUS	.190	.327	.221
MEAN RADIUS	.616	.554	.496
MAX RADIUS	1.230	.879	.954
HORIZONTAL SPREAD	1.643	1.584	1.584
VERTICAL SPREAD	1.828	1.349	1.005
EXTREME SPREAD	2.219	1.621	1.621
NUMBER IN ONE INCH CIRCLE =	4		
NUMBER IN TWO INCH CIRCLE =	9		
NUMBER IN THREE INCH CIRCLE =	10		

28 Nov 1988

FILE:/PATTERNING/CENTERFIRE_PATT/08025318

CENTERFIRE PATTERNS # 4



OF SHOTS = 10

IN CIR

1 in = 2

2 in = 7

3 in = 9

HS = 1.888

VS = 2.866

GS = 3.133

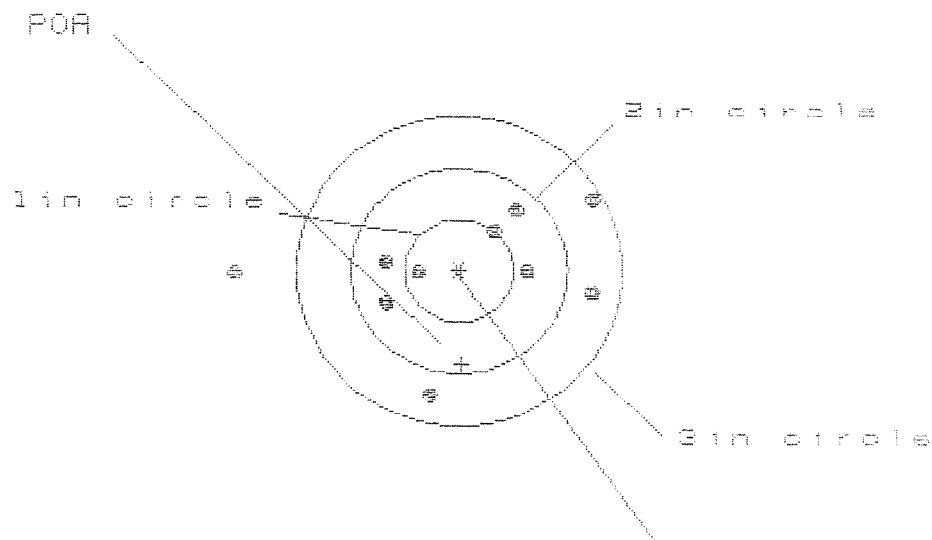
CENTROID *

PATTERN #	4	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.872	.925	.888
MINIMUM X	-1.051	-.998	-.867
MAXIMUM Y	1.142	.950	1.052
MINIMUM Y	-1.724	-.998	-.896
CENTROID X	-.074	-.128	-.003
CENTROID Y	1.254	1.446	1.344
POA TO CENTROID in.	1.257	1.452	1.344
MIN RADIUS	.340	.141	.263
MEAN RADIUS	.889	.762	.698
MAX RADIUS	1.790	1.326	1.322
HORIZONTAL SPREAD	1.923	1.923	1.467
VERTICAL SPREAD	2.866	1.948	1.948
EXTREME SPREAD	3.133	2.172	2.172
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		7	
NUMBER IN THREE INCH CIRCLE =		9	

28 Nov 1988

FILE:/PATTERNING/CENTERFIRE_PATT/08225318

CENTERFIRE PATTERNS # 5



OF SHOTS = 10

IN CIR

1in = 1

2in = 5

3in = 9

HE = 3.340

VS = 1.878

GS = 3.386

CENTROID #

PATTERN #

:

3

SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.245	1.012	1.134
MINIMUM X	:	-2.095	-0.867	-1.745
MAXIMUM Y	:	.689	.684	.672
MINIMUM Y	:	-1.189	-1.194	-1.189
CENTROID X	:	-.026	.267	.085
CENTROID Y	:	.909	.914	.829
POA TO CENTROID in.	:	.909	.937	.833
MIN RADIUS	:	.343	.358	.451
MEAN RADIUS	:	.958	.812	.765
MAX RADIUS	:	2.096	1.282	1.161
HORIZONTAL SPREAD	:	3.340	1.879	1.879
VERTICAL SPREAD	:	1.878	1.878	1.781
EXTREME SPREAD	:	3.386	2.369	1.946
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	