

C6225461

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.



SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6225461.___0
FILE DATE AND TIME: 09/01/2005 11:20

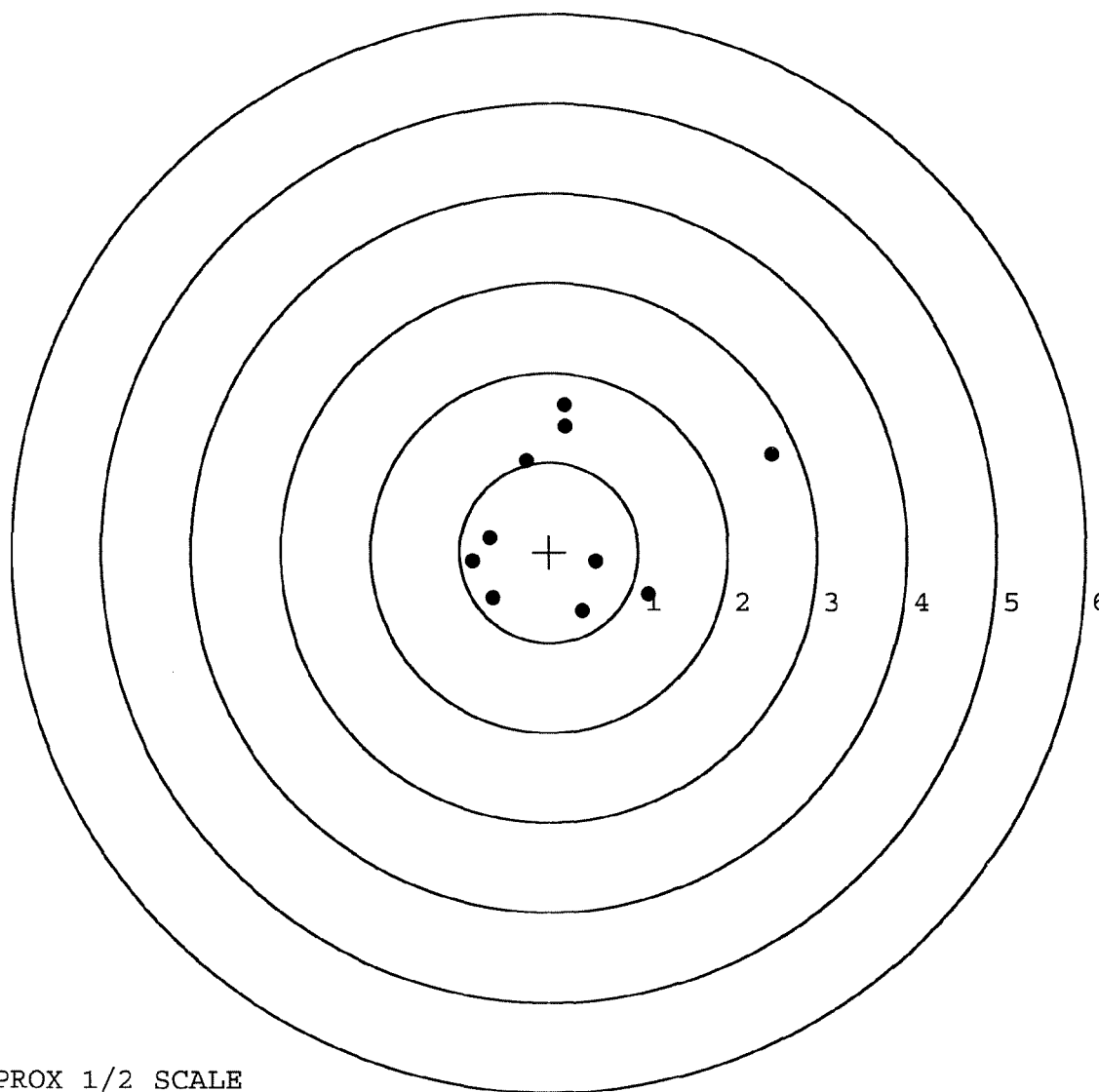
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.044
The Average Y Centroid of the Five Target Set:	0.097
The Average Point of Impact of the Five Target Set:	0.106
The Average Mean Radius of the Five Target Set:	0.937
The Distance from POA to Centroid Target #1:	0.423
The Distance from Centroid Target #2 to Centroid Target #1:	0.151
The Distance from Centroid Target #3 to Centroid Target #1:	0.652
The Distance from Centroid Target #4 to Centroid Target #1:	0.390
The Distance from Centroid Target #5 to Centroid Target #1:	0.442

SERIAL NUMBER: C6225461. __0
TARGET NUMBER: 1
FILE DATE: 09/01/2005
FILE TIME: 11:20

X CENTROID: 0.243
Y CENTROID: 0.346
POA TO CENTROID: 0.423
HORZ SPREAD: 3.352
VERT SPREAD: 2.283
GROUP SPREAD: 3.555
MIN RADIUS: 0.528
MAX RADIUS: 2.368
MEAN RADIUS: 1.161
IN 1 IN DIAMETER: 0
IN 2 IN DIAMETER: 3
in 3 IN DIAMETER: 9

POINT#	X	Y
1:	2.493	1.083
2:	0.168	1.635
3:	0.176	1.398
4:	-0.256	1.017
5:	0.520	-0.104
6:	1.113	-0.470
7:	0.370	-0.648
8:	-0.630	-0.507
9:	-0.859	-0.102
10:	-0.664	0.159

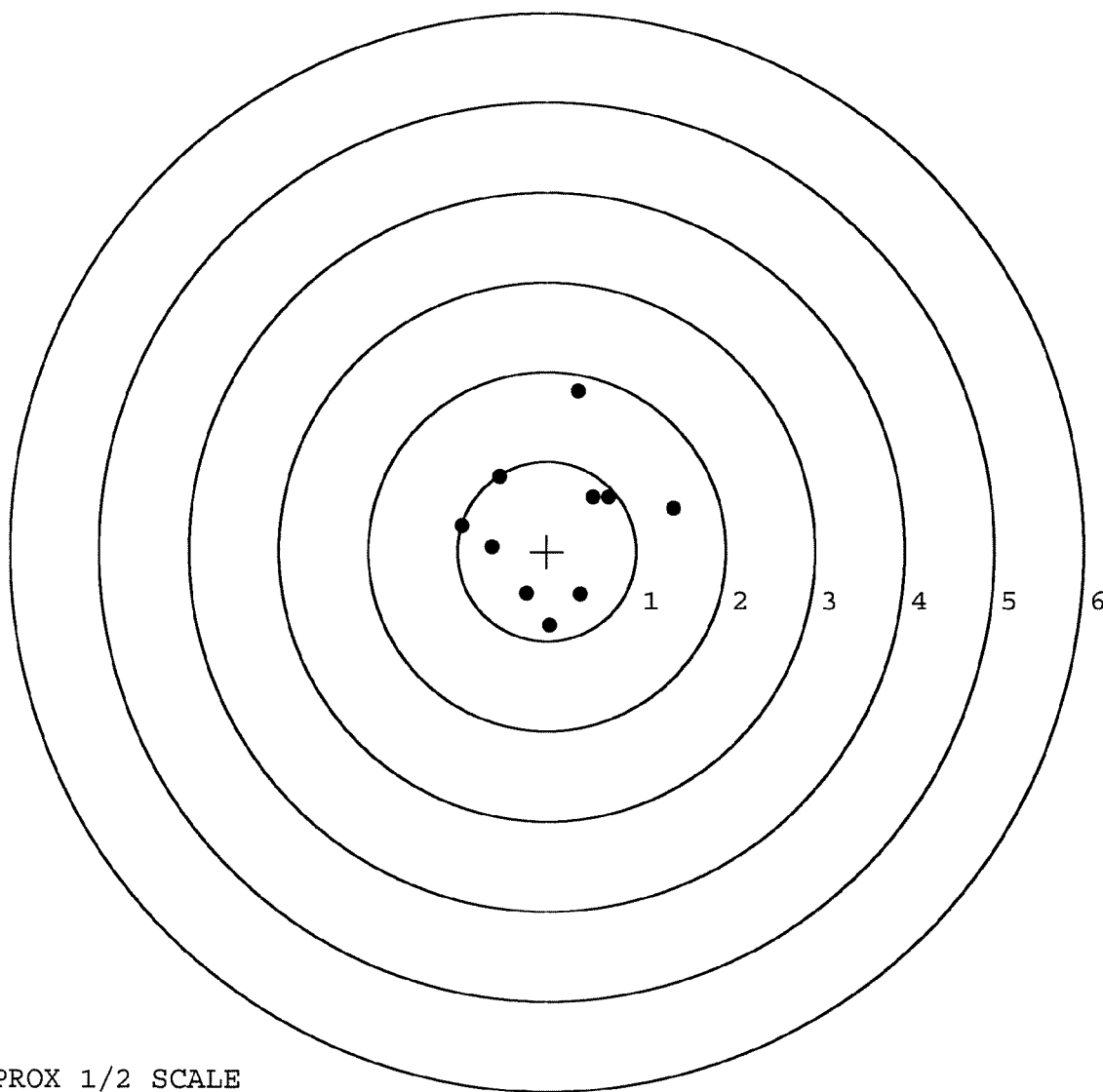


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225461.____0
TARGET NUMBER: 2
FILE DATE: 09/01/2005
FILE TIME: 11:20

X CENTROID: 0.105
Y CENTROID: 0.283
POA TO CENTROID: 0.302
HORZ SPREAD: 2.364
VERT SPREAD: 2.612
GROUP SPREAD: 2.631
MIN RADIUS: 0.520
MAX RADIUS: 1.516
MEAN RADIUS: 0.944
IN 1 IN DIAMETER: 0
IN 2 IN DIAMETER: 6
in 3 IN DIAMETER: 9

POINT#	X	Y
1:	0.376	-0.481
2:	0.030	-0.832
3:	-0.229	-0.478
4:	-0.618	0.052
5:	-0.947	0.281
6:	-0.531	0.829
7:	0.517	0.601
8:	0.690	0.606
9:	1.417	0.474
10:	0.348	1.780



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225461. __0

TARGET NUMBER: 3

FILE DATE: 09/01/2005

FILE TIME: 11:20

X CENTROID: -0.056

Y CENTROID: -0.233

POA TO CENTROID: 0.239

HORZ SPREAD: 2.331

VERT SPREAD: 2.811

GROUP SPREAD: 2.821

MIN RADIUS: 0.494

MAX RADIUS: 1.947

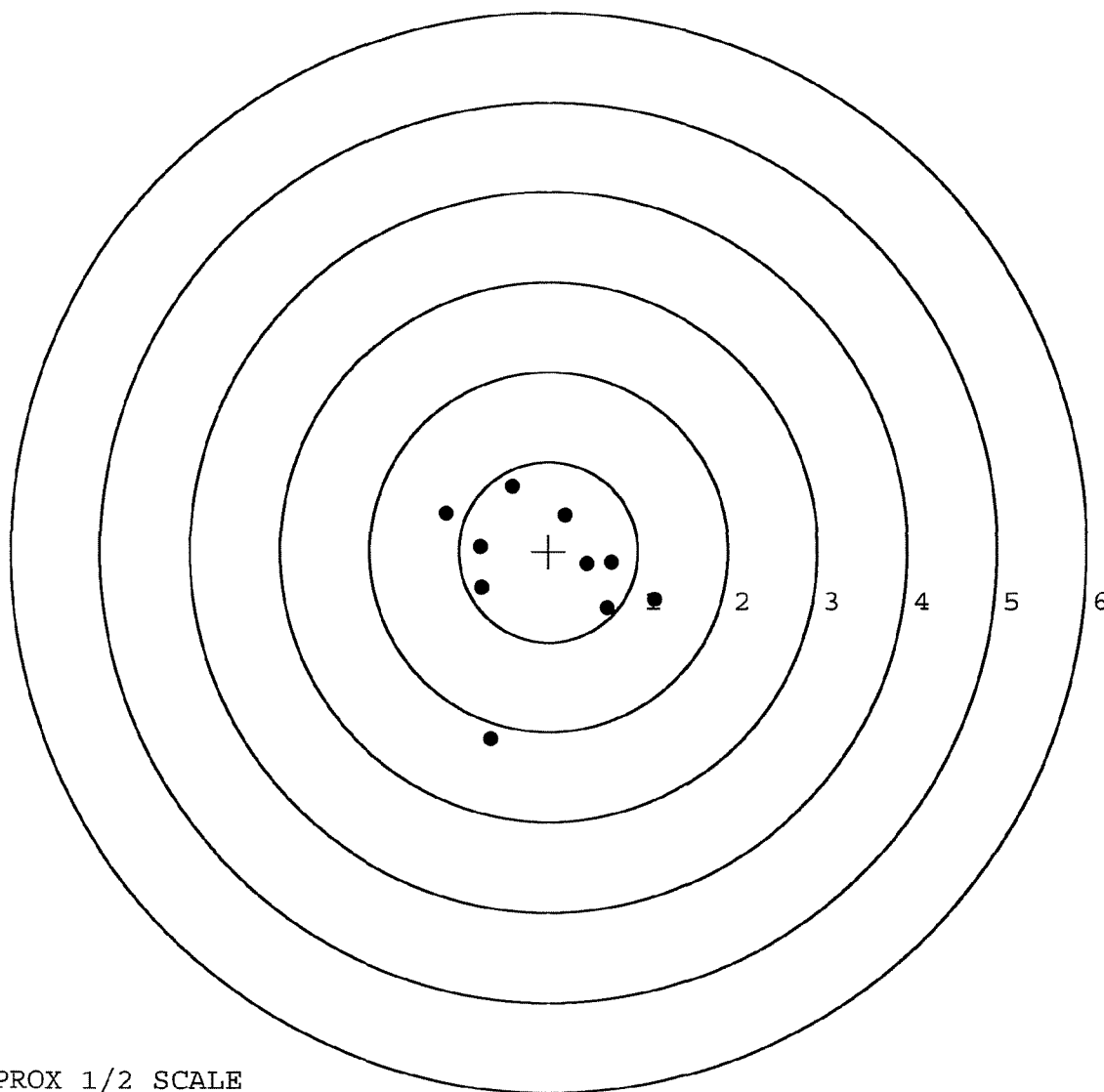
MEAN RADIUS: 0.975

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 9

POINT#	X	Y
1:	1.182	-0.538
2:	0.660	-0.627
3:	0.705	-0.129
4:	0.429	-0.140
5:	0.181	0.405
6:	-0.409	0.724
7:	-0.764	0.047
8:	-1.149	0.421
9:	-0.748	-0.402
10:	-0.650	-2.087

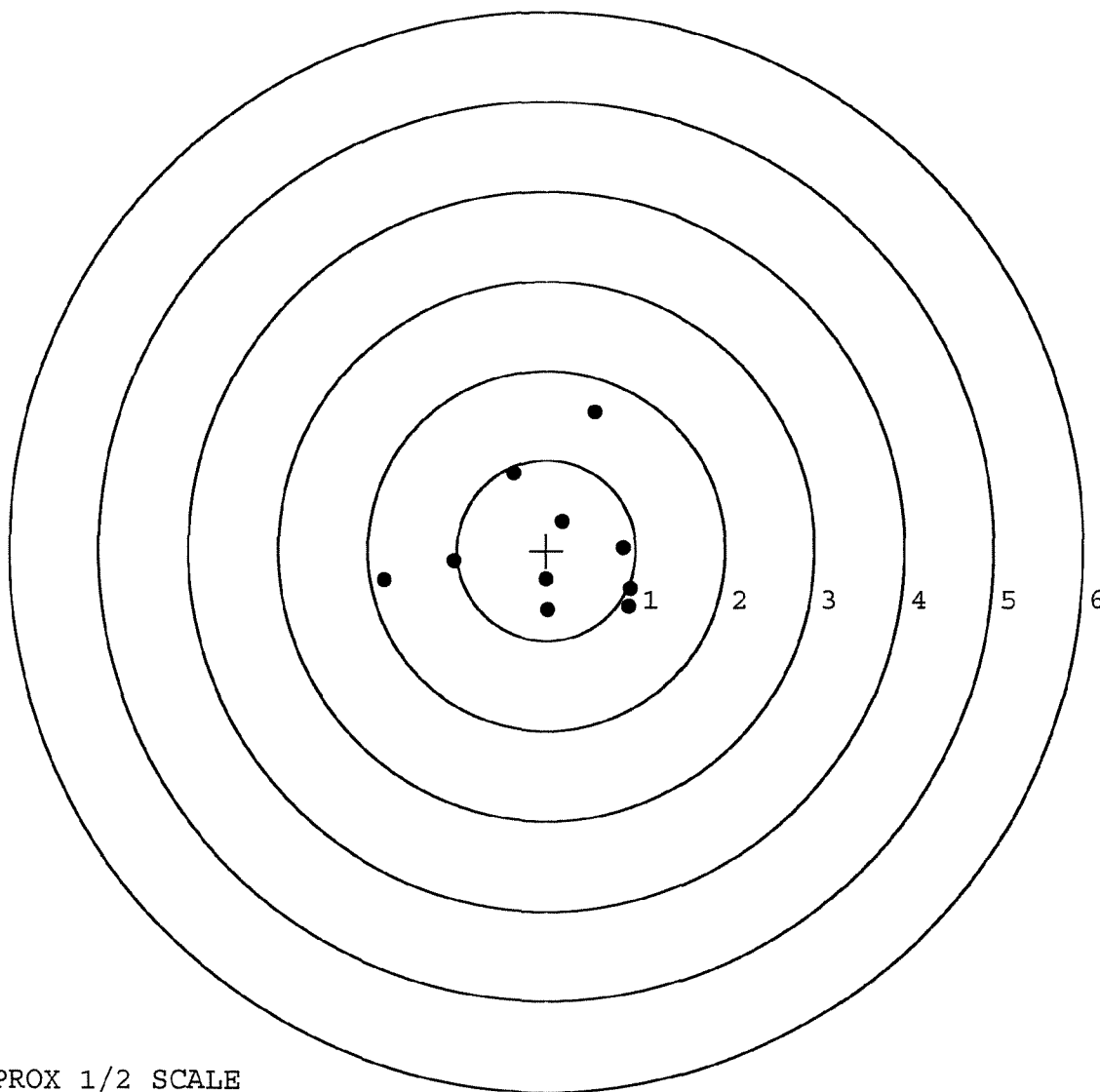


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225461. __0
TARGET NUMBER: 4
FILE DATE: 09/01/2005
FILE TIME: 11:20

X CENTROID: 0.024
Y CENTROID: 0.023
POA TO CENTROID: 0.033
HORZ SPREAD: 2.760
VERT SPREAD: 2.199
GROUP SPREAD: 3.012
MIN RADIUS: 0.334
MAX RADIUS: 1.876
MEAN RADIUS: 0.980
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 5
in 3 IN DIAMETER: 8

POINT#	X	Y
1:	0.926	-0.632
2:	0.942	-0.429
3:	0.865	0.027
4:	0.174	0.321
5:	-0.012	-0.322
6:	0.017	-0.661
7:	-1.029	-0.124
8:	-1.818	-0.336
9:	-0.367	0.850
10:	0.540	1.538

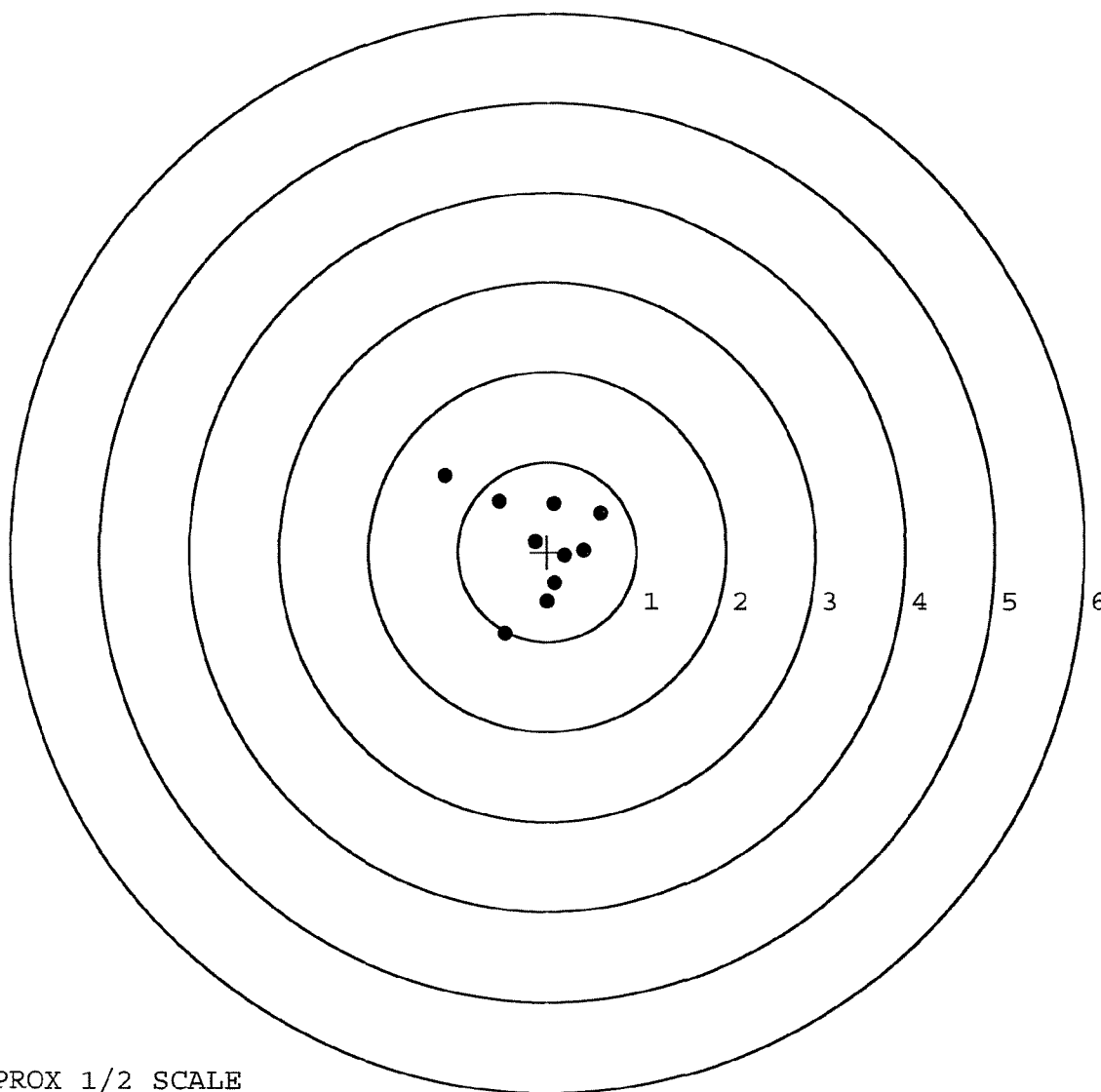


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225461. __0
TARGET NUMBER: 5
FILE DATE: 09/01/2005
FILE TIME: 11:20

X CENTROID: -0.097
Y CENTROID: 0.064
POA TO CENTROID: 0.116
HORZ SPREAD: 1.739
VERT SPREAD: 1.765
GROUP SPREAD: 1.887
MIN RADIUS: 0.067
MAX RADIUS: 1.310
MEAN RADIUS: 0.628
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.592	0.433
2:	0.071	0.534
3:	-0.545	0.561
4:	-1.147	0.848
5:	-0.480	-0.917
6:	-0.007	-0.557
7:	0.081	-0.348
8:	0.407	0.014
9:	0.199	-0.040
10:	-0.140	0.115



TARGET APPROX 1/2 SCALE

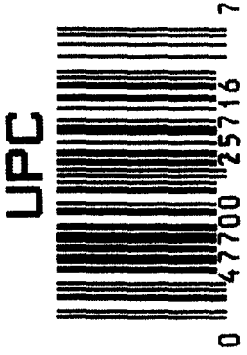
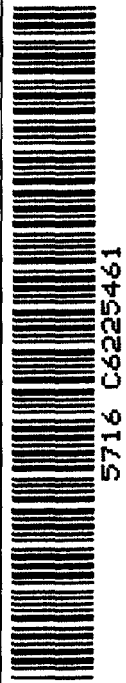
M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-D-0127

R & E NUMBER	92438		
SERIAL NUMBER	C6225461 ^{unit 2}		
LOG-IN DATE	8-3-05		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	8-15-05	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 ^{unit 2}	8/25/05	unit 2
615	ROLLMARK CALIBER	8-25-05	CW
618	ROTO-BLAST	8-26-05	LB
620	APPLY COATINGS	8/29/05	RB
625 A	FINAL ASSEMBLY	8-31-05	LR
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	9-13-05	DA
		SHIP DATE	
		QAR INSPECTION DATE	




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

MODEL 700™ H24 MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada Marque Deposee.	SERIAL NO. C6225461
	ORDER NO. 5716



CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225461

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	4 12	89	RW
600	Proof	4 12	89	RW
607	Check Headspace	4 12	89	RW
610	Dis-assemble Gun	4 12	89	RW
612	Magnaflux Barrel Action		4/13/89	KCR
	Magnaflux Bolt		4/14/89	KCR
615	Rollmark Caliber		4/14/89	ss.
617	Drill and Tap Sight Holes	4 14	89	JB
618	Polish Barrel RB	4 14	89	BT
620	Apply Coatings (Barrel Action)		4-20-89	TJA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		5/1/89	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		5/1/89	RW
	C) Inspect Ejector Hole for Chamfer		5/1/89	RW
	D) Oil Firing Pin Ass'y		5/1/89	RW
	E) Adjust Trigger Pull to Min Setting and Stake		5/2/89	WB

op. #	OP. NAME	READINGS			DATE	INIT
625 cont.	F) Safety On Force	7	7	7	5/2/89	94
	G) Safety Off Force	3	3	3	5/2/89	94
	H) Trigger Pull Test & Retainability				5/2/89	WB
	I) Firing Pin Indent	.020	.020	.020	5/2/89	94
	J) Assemble Stock				5/5/89	RW
	K) Assemble Swivel Studs				16 May 89	JS
	L) Attach Front and Rear Sight Assemblies				5/5/89	RW
	M) Iron Sight Alignment				5/5/89	RW
	N) Detach Front & Rear Sights & place in numbered container				5/5/89	RW
	O) Attach Scope to Rifle				5/5/89	94
	P) Detach & Attach Scope 20 Times				5/5/89	94
640	Gallery Target & Test	782	752		5/9/89	A
	A) Time				5/9/89	A
	B) Malfunctions				5/9/89	A
	C) Pierced Primers				5/9/89	A
	D) Optical Clarity of Scope				5/9/89	A
645	Inspect for Live Ammo				5/9/89	A
655	Final Inspection					
	A) Headspace				16 May 89	JS
	B) Trigger Pull	2.83	2.78	2.76	16 May 89	JS
	C) Function				16 May 89	JS
660	Pack				20 May 89	JS

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225461

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	4 12	89	RW
600	Proof	4 12	89	RW
607	Check Headspace	4 12	89	RW
610	Dis-assemble Gun	4 12	89	RW
612	Magnaflux Barrel Action		4/13/89	KCR
	Magnaflux Bolt		4/14/89	KCR
615	Rollmark Caliber		4/14/89	JB
617	Drill and Tap Sight Holes	4 14	89	JB
618	Polish Barrel RB	4 14	89	BT
620	Apply Coatings (Barrel Action)		4-20-89	TSA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		5/1/89	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		5/1/89	RW
	C) Inspect Ejector Hole for Chamfer		5/1/89	RW
	D) Oil Firing Pin Ass'y		5/1/89	RW
	E) Adjust Trigger Pull to Min Setting and Stake		5/2/89	WB

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

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

SERIAL NO. 6225461

DATE 3/27/90

TESTER RW

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.50	2.57		2.58	MIN. SETTING,
PULL #2	2.53	2.53		2.52	NO AVG. OF 5
PULL #3	2.32	2.48		2.54	READINGS ACCEPT-
PULL #4	2.53	2.50		2.43	ABLE LESS THAN 2#
PULL #5	2.50	2.35		2.52	
TOTAL	12.38	12.43		12.59	
AVG.	2.48	2.49		2.52	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.07	3.09		
PULL #2	3.22	3.10		
PULL #3	3.22	3.15		
PULL #4	3.15	3.23		
PULL #5	3.22	3.22		
TOTAL	15.88	15.79		
AVG.	3.18	3.16		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.24	4.10		
PULL #2	4.18	4.15		
PULL #3	4.23	4.24		
PULL #4	4.16	4.23		
PULL #5	4.27	4.07		
TOTAL	21.08	20.79		
AVG.	4.23	4.16		

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06225461
10 May 1989

CENTROIDAL DISTANCES

0 TO	1	.875695
1 TO	2	.32452
1 TO	3	.292228
1 TO	4	1.6055
1 TO	5	.92508

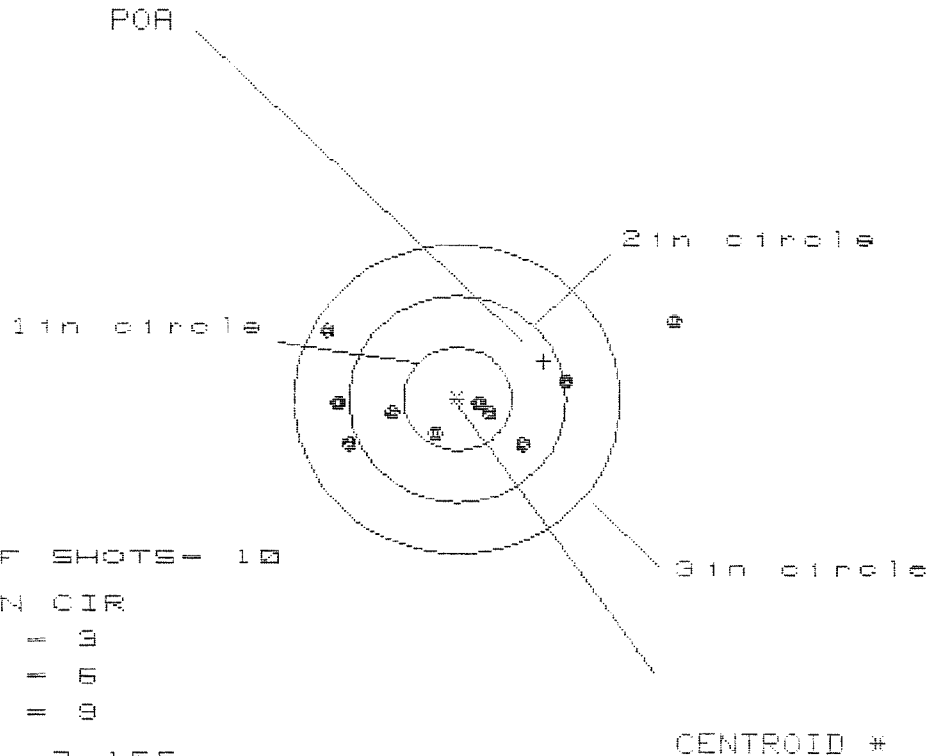
$\sum_{i=1}^n t_i^4$ <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.2486
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.1014
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .268484
THE AMR FOR THIS RIFLE IS: .8874

18 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/05225461

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1in = 3

2in = 6

3in = 9

HS= 3.155

VS= 1.215

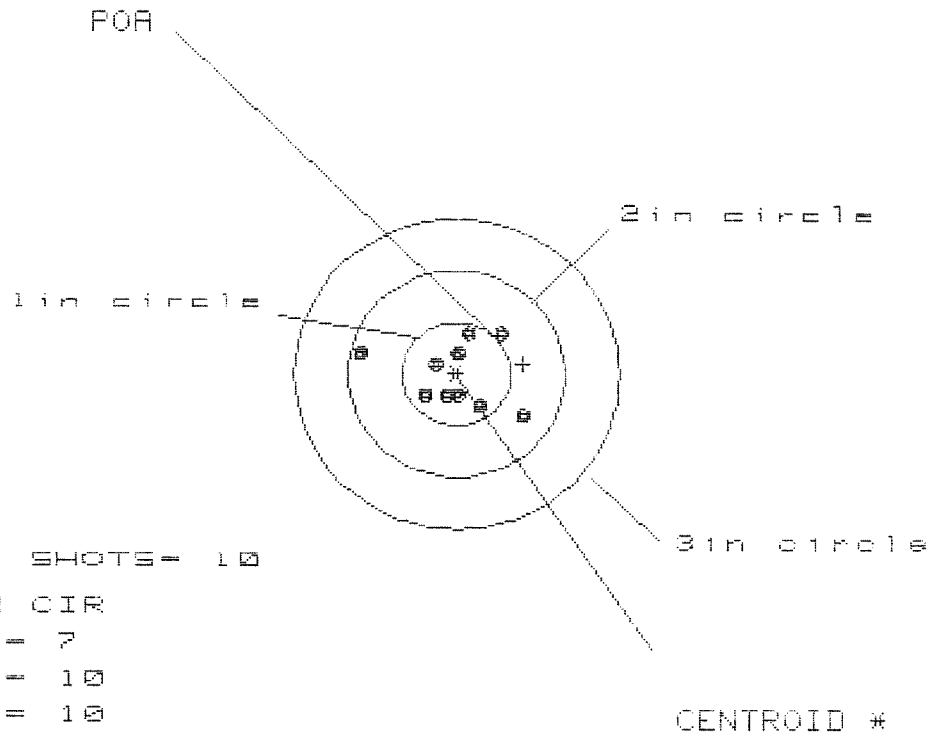
GS= 3.205

PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.962	1.167	1.045
MINIMUM X	:	-1.193	-.974	-1.041
MAXIMUM Y	:	.746	.747	.377
MINIMUM Y	:	-.469	-.386	-.292
CENTROID X	:	-.796	-1.015	-.893
CENTROID Y	:	-.365	-.448	-.542
POA TO CENTROID in.	:	.876	1.109	1.044
MIN RADIUS	:	.216	.222	.133
MEAN RADIUS	:	.894	.744	.656
MAX RADIUS	:	2.100	1.228	1.111
HORIZONTAL SPREAD	:	3.155	2.141	2.086
VERTICAL SPREAD	:	1.215	1.133	.669
EXTREME SPREAD	:	3.205	2.191	2.103
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	

10 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08225461

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1 in = 7

2 in = 10

3 in = 10

HS= 1.550

VS= .767

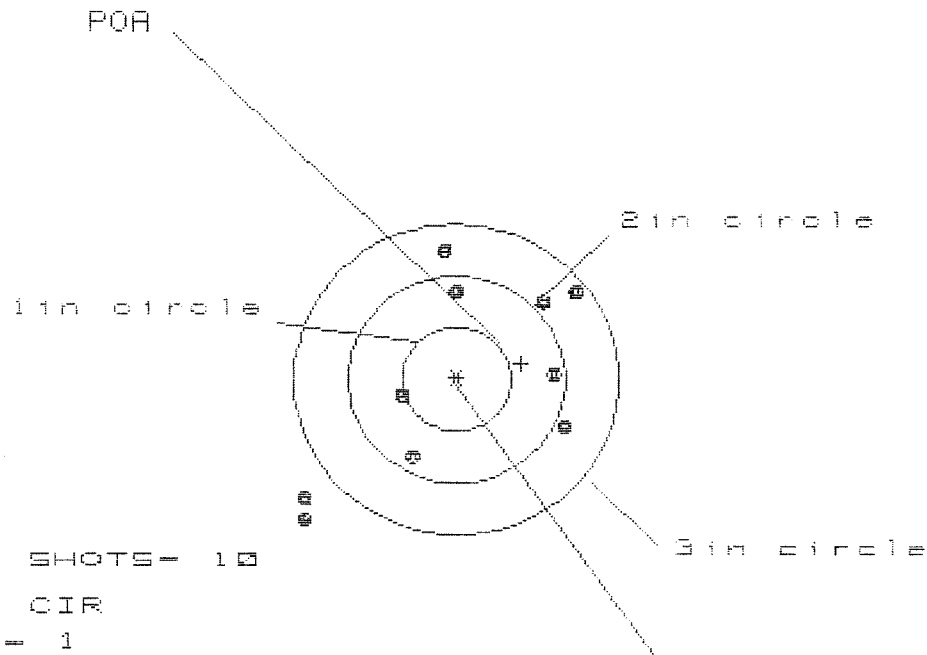
GS= 1.653

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.615	.511	.395
MINIMUM X	:	-.935	-.399	-.335
MAXIMUM Y	:	.388	.410	.365
MINIMUM Y	:	-.379	-.357	-.345
CENTROID X	:	-.613	-.509	-.573
CENTROID Y	:	-.097	-.119	-.074
POA TO CENTROID in.	:	.621	.523	.576
MIN RADIUS	:	.178	.180	.206
MEAN RADIUS	:	.419	.361	.317
MAX RADIUS	:	.955	.623	.538
HORIZONTAL SPREAD	:	1.550	.910	.730
VERTICAL SPREAD	:	.767	.767	.710
EXTREME SPREAD	:	1.653	.946	.946
NUMBER IN ONE INCH CIRCLE	=		7	
NUMBER IN TWO INCH CIRCLE	=		10	
NUMBER IN THREE INCH CIRCLE	=		10	

18 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/Q6225461

CENTERFIRE PATTERNS # 3



OF SHOTS = 10

IN CIR

1in = 1

2in = 4

3in = 8

HS = 2.534

VS = 2.616

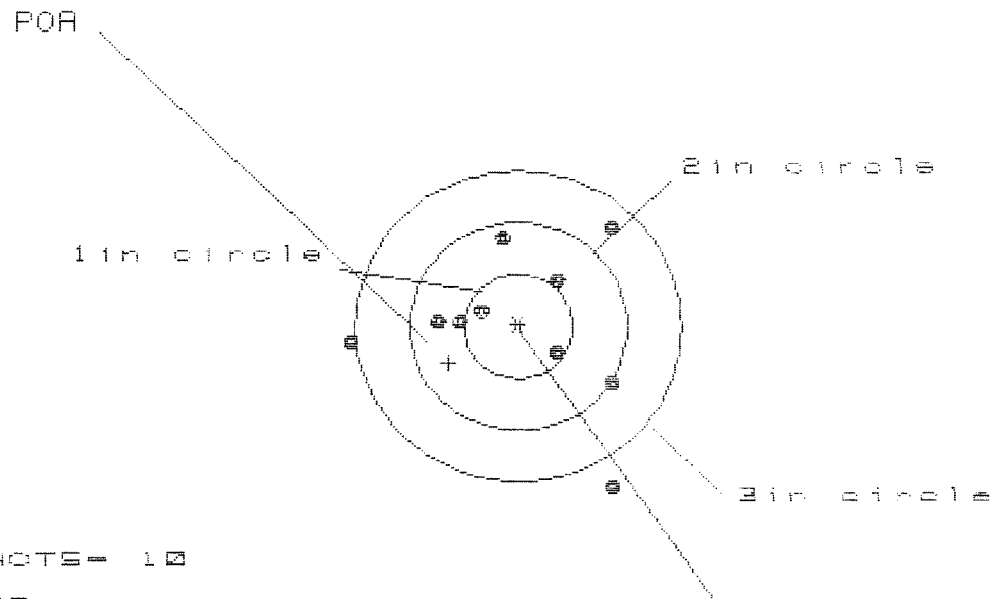
GS = 3.321

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.141	.986	.793
MINIMUM X	:	-1.393	-1.544	-.815
MAXIMUM Y	:	1.271	1.121	.962
MINIMUM Y	:	-1.345	-1.276	-1.029
CENTROID X	:	-.597	-.442	-.249
CENTROID Y	:	-.151	-.001	.158
POA TO CENTROID in.	:	.616	.442	.295
MIN RADIUS	:	.486	.684	.615
MEAN RADIUS	:	1.174	1.059	.897
MAX RADIUS	:	1.937	2.003	1.303
HORIZONTAL SPREAD	:	2.534	2.530	1.608
VERTICAL SPREAD	:	2.616	2.397	1.991
EXTREME SPREAD	:	3.321	3.181	2.202
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		8	

10 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C6225461

CENTERFIRE PATTERNS # 4



OF SHOTS = 10

IN CIR

1in = 2

2in = 6

3in = 8

HS = 2.426

VS = 2.500

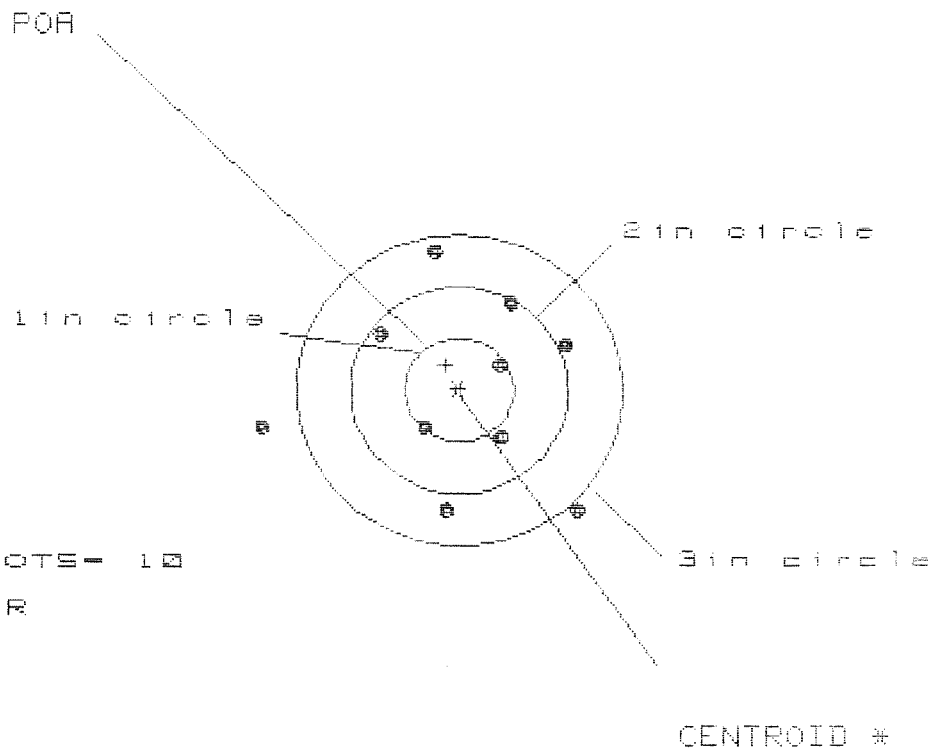
GS = 2.789

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.901	.950	.772
MINIMUM X	:	-1.525	-1.425	-.792
MAXIMUM Y	:	.949	.776	.733
MINIMUM Y	:	-1.551	-.712	-.755
CENTROID X	:	.642	.542	.720
CENTROID Y	:	.349	.522	.565
POA TO CENTROID in.	:	.731	.752	.915
MIN RADIUS	:	.401	.270	.362
MEAN RADIUS	:	.913	.784	.701
MAX RADIUS	:	1.794	1.467	1.080
HORIZONTAL SPREAD	:	2.426	2.375	1.564
VERTICAL SPREAD	:	2.500	1.488	1.488
EXTREME SPREAD	:	2.789	2.606	1.808
NUMBER IN ONE INCH CIRCLE =			2	
NUMBER IN TWO INCH CIRCLE =			6	
NUMBER IN THREE INCH CIRCLE =			8	

18 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/06225461

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 4

3 in = 8

HS= 2.870

VS= 2.481

GS= 2.983

PATTERN #	5		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.063	.862	.915
MINIMUM X	-1.887	-.965	-.858
MAXIMUM Y	1.319	1.285	1.141
MINIMUM Y	-1.161	-1.196	-1.340
CENTROID X	.121	.322	.214
CENTROID Y	-.243	-.208	-.064
POA TO CENTROID in.	.271	.384	.224
MIN RADIUS	.406	.228	.257
MEAN RADIUS	1.037	.922	.853
MAX RADIUS	1.834	1.441	1.352
HORIZONTAL SPREAD	2.870	1.827	1.773
VERTICAL SPREAD	2.481	2.481	2.481
EXTREME SPREAD	2.983	2.779	2.488
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		4	
NUMBER IN THREE INCH CIRCLE =		8	