

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331633-830

Luminaire Tested: **SA2XXRDIP-C290D925U830-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331633-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C290D925U830-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 925 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4554.1 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

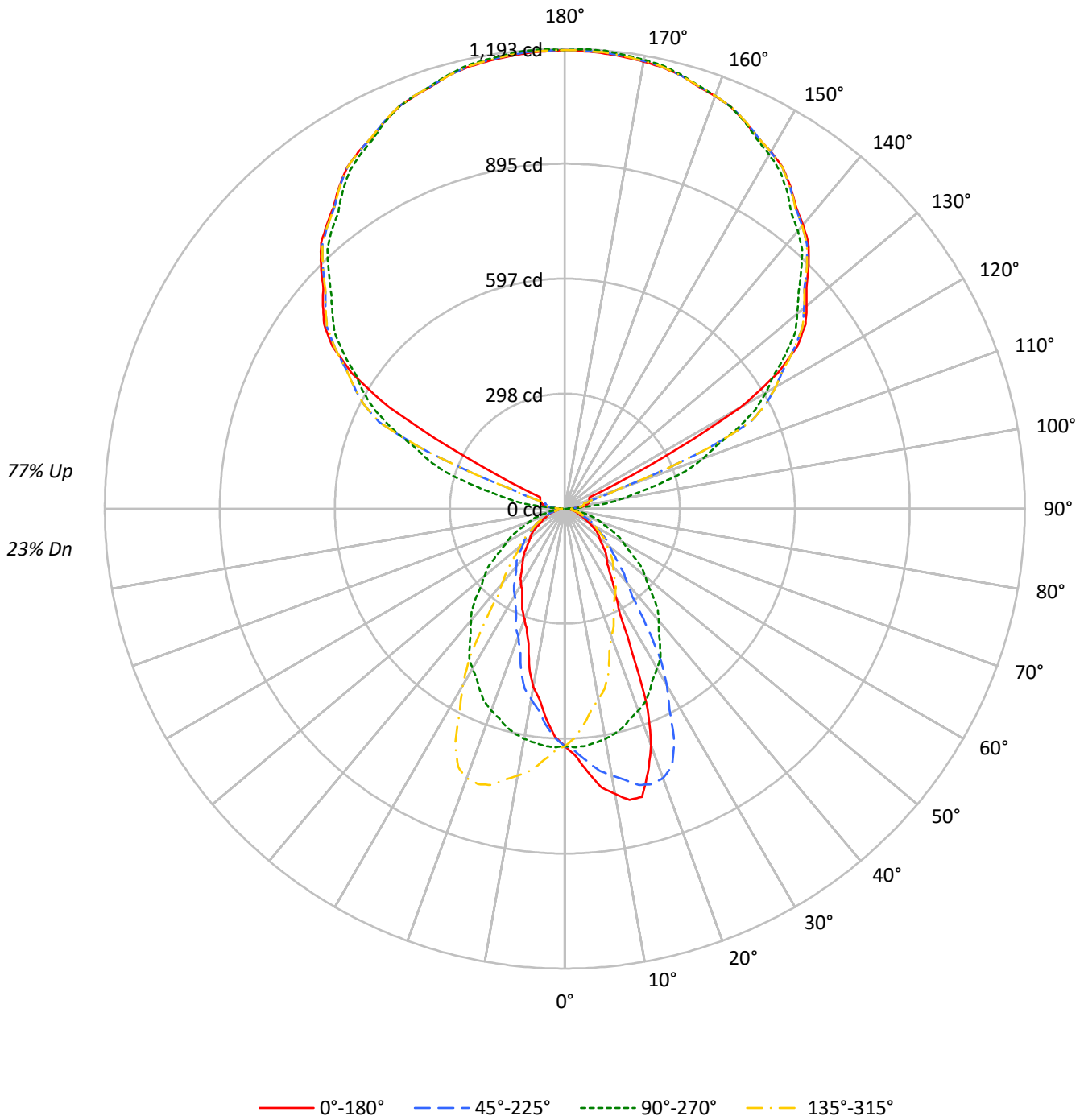
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23
1	92	88	85	81	82	79	76	73	60	59	57	44	43	42	29	28	27	20
2	84	77	72	67	75	69	64	60	53	50	48	39	37	35	26	25	24	18
3	77	68	62	56	68	61	55	51	47	44	40	35	32	30	23	22	21	15
4	71	61	53	48	63	54	48	43	42	38	35	31	28	26	21	19	18	14
5	65	54	46	41	57	48	42	37	38	33	30	28	25	23	19	17	16	12
6	60	48	41	36	53	44	37	32	34	30	26	25	22	20	17	16	14	11
7	55	44	36	31	49	39	33	28	31	26	23	23	20	18	16	14	13	10
8	51	40	32	27	45	36	29	25	28	24	21	21	18	16	15	13	12	9
9	48	36	29	24	42	33	27	22	26	22	18	20	17	14	14	12	11	8
10	44	33	26	22	40	30	24	20	24	20	17	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9947	9947	9947	9947
5°	11110	10010	8877	10010
10°	12329	9940	7694	9940
15°	12933	9795	6063	9795
20°	11213	9579	5246	9579
25°	7352	9283	4684	9283
30°	4950	8925	4238	8925
35°	4009	8474	3824	8474
40°	3564	7982	3539	7982
45°	3226	7405	3158	7405
50°	2936	6835	2926	6835
55°	2759	6201	2725	6201
60°	2309	5622	2283	5622
65°	1948	5104	2208	5104
70°	1799	4556	2082	4556
75°	1684	3968	1921	3968
80°	1553	3273	1711	3273
85°	1426	2575	1501	2575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	1.3
10°-20°	162.8	3.6
20°-30°	209.7	4.6
30°-40°	199.3	4.4
40°-50°	170.7	3.7
50°-60°	130.0	2.9
60°-70°	82.2	1.8
70°-80°	41.0	0.9
80°-90°	13.6	0.3
90°-100°	39.7	0.9
100°-110°	145.5	3.2
110°-120°	389.0	8.5
120°-130°	642.1	14.1
130°-140°	682.9	15.0
140°-150°	634.7	13.9
150°-160°	510.3	11.2
160°-170°	328.8	7.2
170°-180°	113.2	2.5
0°-30°	430.9	9.5
0°-40°	630.2	13.8
0°-60°	931.0	20.4
0°-90°	1067.8	23.4
90°-120°	574.2	12.6
90°-150°	2533.9	55.6
90°-180°	3486.0	76.5
0°-180°	4554.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	616	616	616	616	616	
5°	686	618	548	618	686	68
15°	774	586	363	586	774	209
25°	413	521	263	521	413	196
35°	203	430	194	430	203	130
45°	141	324	138	324	141	109
55°	98	220	97	220	98	86
65°	51	134	58	134	51	52
75°	27	64	31	64	27	29
85°	8	14	8	14	8	9
90°	23	1	23	1	23	11
95°	37	56	37	56	37	35
105°	65	262	65	262	65	68
115°	71	495	71	495	71	177
125°	736	700	736	700	736	637
135°	894	866	894	866	894	689
145°	1020	1005	1020	1005	1020	638
155°	1107	1106	1107	1106	1107	511
165°	1163	1166	1163	1166	1163	328
175°	1185	1192	1185	1192	1185	113
180°	1190	1190	1190	1190	1190	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	641.2	641.7	642.2	641.0	641.0	640.0	637.7	636.0	631.2	630.6	630.6
5°	685.5	685.1	686.0	683.2	679.4	678.4	674.4	669.0	663.5	657.3	656.0
7.5°	729.6	729.0	727.3	726.8	723.9	717.4	710.9	703.9	694.7	685.6	681.1
10°	752.0	759.0	754.7	747.2	748.7	738.7	733.3	724.1	716.3	702.9	699.9
12.5°	773.8	776.7	775.2	771.0	769.1	762.1	754.9	746.9	732.6	720.6	710.0
15°	773.7	777.8	778.9	777.6	778.6	778.3	774.4	767.8	755.4	742.1	730.5
17.5°	716.6	719.4	726.5	731.2	737.3	749.9	756.2	758.6	756.8	749.1	741.0
20°	652.6	647.9	667.6	677.6	686.2	707.6	726.0	733.1	744.4	744.2	742.1
22.5°	561.8	562.9	581.5	593.5	618.5	640.0	660.9	687.5	709.5	724.0	732.4
25°	412.7	420.9	439.5	455.8	483.6	523.5	559.7	601.6	641.2	672.5	702.3
27.5°	310.0	310.7	325.4	340.4	356.9	389.6	435.2	485.2	541.7	588.3	641.9
30°	265.5	264.2	270.4	279.7	293.8	319.1	353.3	402.5	458.8	529.0	591.5
32.5°	233.9	234.0	238.7	245.5	257.2	274.3	297.7	337.8	391.0	460.1	533.3
35°	203.4	203.2	206.6	211.5	216.4	227.3	243.5	264.4	301.0	365.4	440.4
37.5°	181.4	182.4	184.1	187.2	192.6	198.7	208.3	222.4	248.5	286.6	349.6
40°	169.1	169.6	171.9	174.5	177.7	182.4	190.3	201.7	220.7	251.1	297.2
42.5°	157.9	158.3	159.9	162.3	164.9	169.6	176.2	186.0	201.4	225.1	263.1
45°	141.3	141.3	142.8	143.8	146.7	150.9	156.3	164.5	175.1	192.7	217.9
47.5°	125.8	125.8	126.9	128.7	130.4	133.7	139.0	145.7	153.4	167.0	188.6
50°	116.9	117.2	117.7	119.2	120.4	123.3	127.4	133.2	141.3	151.8	169.8
52.5°	109.7	109.6	110.4	111.0	111.8	113.9	117.0	122.1	129.3	138.5	153.4
55°	98.0	97.2	98.5	99.5	100.2	101.0	102.7	105.9	112.2	119.9	131.0
57.5°	83.5	83.1	84.1	85.0	87.1	89.4	90.9	92.8	96.0	101.6	112.6
60°	71.5	71.5	73.4	74.1	76.4	79.5	82.5	84.2	87.4	91.0	99.2
62.5°	60.9	61.1	61.9	62.6	63.9	67.6	71.8	75.6	78.6	82.1	87.5
65°	51.0	51.4	51.4	51.8	52.7	53.5	55.2	58.2	63.6	68.5	72.6
67.5°	43.3	43.4	43.5	43.9	44.1	45.1	45.8	47.1	48.4	53.0	58.1
70°	38.1	38.7	38.5	38.9	39.2	39.6	40.4	41.1	43.1	44.1	47.1
72.5°	33.3	33.7	33.7	34.0	34.6	34.7	35.3	36.0	37.2	38.1	39.8
75°	27.0	26.8	27.0	27.4	27.6	27.8	27.8	28.7	29.3	30.2	31.3
77.5°	20.8	21.0	21.0	21.0	21.1	21.5	21.4	21.8	22.4	22.9	23.4
80°	16.7	16.9	16.7	16.9	17.2	17.3	17.2	17.3	18.0	18.4	18.4
82.5°	12.9	13.0	13.1	13.1	13.2	13.2	13.6	13.6	14.0	13.9	14.1
85°	7.7	7.5	7.5	7.5	7.7	7.9	7.7	7.7	7.9	7.9	7.9
87.5°	7.4	7.4	7.4	7.4	7.3	7.2	7.0	6.9	6.5	6.5	6.0
90°	23.3	22.9	22.4	22.1	21.7	21.0	20.1	19.1	18.2	17.2	15.6
92.5°	23.3	23.0	22.8	22.5	22.3	22.0	21.5	20.9	20.5	20.0	19.2
95°	37.0	37.2	37.4	37.6	37.8	37.4	36.5	35.4	34.5	33.6	32.2
97.5°	49.4	49.2	48.9	48.7	48.4	48.0	47.2	46.5	45.7	45.0	41.8
100°	57.7	57.3	56.9	56.6	56.2	55.2	53.6	52.1	50.6	49.1	45.8
102.5°	61.8	61.3	60.7	60.2	59.7	58.4	56.5	54.4	52.4	50.4	77.7
105°	65.4	64.7	63.9	63.2	62.4	60.9	58.8	56.7	54.6	52.5	104.7
107.5°	67.3	66.5	65.8	65.0	64.3	64.9	67.1	69.2	71.4	73.5	136.1
110°	68.1	67.2	66.4	65.7	64.9	74.1	93.2	112.4	131.5	150.6	205.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	68.7	68.1	67.5	66.8	66.3	100.9	170.6	240.4	310.2	379.9	393.6
115°	70.6	84.4	98.1	111.9	125.6	176.8	265.4	354.0	442.5	531.1	526.3
117.5°	288.2	333.5	378.7	424.0	469.2	502.6	524.1	545.4	566.8	588.2	585.0
120°	525.1	550.9	576.7	602.6	628.4	640.2	637.9	635.6	633.3	630.9	627.5
122.5°	655.3	660.3	665.2	670.3	675.3	677.1	675.7	674.4	673.0	671.7	667.9
125°	736.0	735.5	734.8	734.2	733.7	732.7	731.4	730.1	728.8	727.4	723.8
127.5°	786.9	786.8	786.7	786.6	786.5	785.5	783.5	781.6	779.6	777.7	775.0
130°	818.6	818.8	819.0	819.3	819.4	818.4	816.3	814.3	812.1	810.0	807.9
132.5°	849.6	849.8	850.0	850.2	850.4	849.6	847.8	846.0	844.2	842.4	840.3
135°	894.4	894.8	895.1	895.5	895.9	895.1	893.2	891.4	889.4	887.5	885.8
137.5°	935.2	935.9	936.5	937.2	937.8	937.2	935.3	933.4	931.5	929.7	927.7
140°	960.6	961.7	962.6	963.6	964.5	964.1	962.4	960.6	958.9	957.2	955.2
142.5°	985.4	986.5	987.4	988.4	989.3	989.0	987.4	985.8	984.3	982.7	980.3
145°	1020.1	1021.1	1022.0	1022.9	1023.9	1023.7	1022.4	1021.1	1019.6	1018.3	1015.1
147.5°	1050.6	1051.3	1052.2	1052.9	1053.8	1053.7	1052.6	1051.7	1050.7	1049.7	1046.5
150°	1069.1	1070.1	1071.0	1072.0	1073.0	1072.9	1071.8	1070.5	1069.4	1068.3	1065.3
152.5°	1085.0	1086.3	1087.5	1088.7	1090.1	1090.1	1088.9	1087.8	1086.7	1085.5	1082.6
155°	1107.0	1108.5	1110.0	1111.6	1113.1	1113.3	1112.2	1111.1	1109.8	1108.7	1106.5
157.5°	1127.2	1128.6	1130.1	1131.6	1133.1	1133.2	1131.9	1130.6	1129.4	1128.0	1126.4
160°	1138.9	1140.2	1141.5	1142.8	1144.2	1144.3	1143.2	1142.0	1140.9	1139.7	1138.6
162.5°	1148.5	1150.2	1151.8	1153.5	1155.1	1155.3	1154.0	1152.6	1151.3	1150.1	1149.1
165°	1163.0	1164.3	1165.6	1167.0	1168.3	1168.3	1167.0	1165.6	1164.3	1163.0	1162.4
167.5°	1172.1	1173.8	1175.5	1177.2	1178.9	1179.2	1177.8	1176.5	1175.2	1173.8	1173.3
170°	1177.6	1179.3	1181.0	1182.8	1184.5	1184.7	1183.4	1182.0	1180.6	1179.3	1178.9
172.5°	1181.8	1183.5	1185.2	1186.8	1188.6	1188.8	1187.5	1186.1	1184.8	1183.5	1183.1
175°	1185.3	1187.2	1189.2	1191.1	1193.0	1193.3	1191.9	1190.6	1189.3	1187.9	1187.5
177.5°	1187.6	1188.9	1190.3	1191.8	1193.1	1193.3	1192.2	1191.1	1190.1	1188.9	1188.8
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	630.9	629.5	628.3	625.3	623.7	620.3	619.8	619.6	615.2	610.9	609.6
5°	652.6	649.1	644.0	638.0	631.8	625.4	621.1	617.6	609.1	601.0	596.3
7.5°	674.4	667.0	658.2	646.9	637.3	626.8	618.9	611.8	599.6	588.0	580.1
10°	690.7	678.7	666.9	651.3	639.0	627.1	616.0	606.3	592.7	577.2	566.3
12.5°	700.8	687.6	671.4	656.1	640.3	625.0	610.1	597.8	581.6	565.7	552.8
15°	714.4	700.3	680.6	658.7	638.5	618.5	601.4	586.0	565.1	545.9	530.1
17.5°	725.7	706.2	685.0	659.8	636.2	611.0	588.9	569.2	545.8	522.8	504.2
20°	729.2	709.9	685.5	660.3	632.4	602.7	578.9	557.5	532.4	507.4	486.0
22.5°	727.0	712.0	684.9	654.6	626.1	595.0	568.2	543.3	515.5	489.9	465.1
25°	711.9	706.7	681.1	648.1	615.6	579.4	548.3	521.1	489.5	462.0	435.1
27.5°	676.7	687.8	671.8	636.7	600.5	561.8	526.8	495.9	463.0	432.2	405.3
30°	642.7	668.2	661.4	628.8	588.3	550.3	511.0	478.7	443.7	411.9	385.4
32.5°	596.3	638.4	645.1	617.8	576.0	534.1	493.0	460.9	424.2	390.9	365.0
35°	522.4	585.3	614.3	596.9	555.0	509.7	467.4	429.9	393.0	360.1	334.4
37.5°	434.2	520.0	568.2	569.4	530.8	483.9	437.7	400.5	362.8	330.5	302.7
40°	377.0	470.0	532.7	546.6	514.1	463.4	416.6	378.7	342.0	310.2	278.3
42.5°	325.6	418.2	495.3	519.5	493.7	443.3	396.4	356.8	321.0	291.1	258.4
45°	263.3	344.3	429.2	472.5	458.2	411.5	362.0	324.3	290.8	264.9	233.6
47.5°	222.2	279.2	361.5	419.9	419.7	377.1	328.4	292.4	261.2	236.9	211.6
50°	198.7	248.4	317.9	384.3	389.8	354.1	307.8	272.1	243.0	217.5	197.2
52.5°	177.6	218.6	281.1	344.8	360.6	329.6	284.7	251.8	223.5	200.0	182.7
55°	150.1	181.8	229.3	288.8	312.8	291.0	251.1	220.3	197.4	177.7	162.7
57.5°	127.0	150.7	188.9	236.8	264.7	251.0	218.1	193.0	173.4	155.6	143.8
60°	112.4	131.9	164.2	204.2	235.1	225.5	197.4	174.1	157.4	141.9	130.8
62.5°	98.7	115.5	143.2	175.7	203.9	199.9	177.0	157.4	142.8	128.8	119.3
65°	79.5	91.6	113.3	138.7	161.5	163.3	146.8	133.6	120.6	109.4	101.0
67.5°	63.2	71.3	86.4	107.9	124.9	131.0	120.9	110.7	100.4	91.8	84.5
70°	53.3	59.8	70.9	88.2	103.9	110.3	104.4	96.5	87.6	80.5	74.3
72.5°	43.2	49.5	57.7	70.4	83.8	90.8	88.7	83.0	75.8	69.8	64.0
75°	32.5	34.5	40.1	48.6	59.1	65.1	66.5	63.6	57.8	53.3	49.9
77.5°	24.0	25.3	27.9	32.3	39.2	44.6	46.8	46.4	42.4	39.9	36.6
80°	19.2	19.9	21.2	23.1	28.3	33.6	35.2	35.2	32.3	31.3	28.1
82.5°	14.6	15.1	15.9	17.0	19.3	24.0	25.7	26.0	24.3	22.9	20.4
85°	8.4	8.1	8.6	9.2	9.6	10.9	13.5	13.9	13.5	11.8	11.1
87.5°	5.7	5.6	5.3	4.8	4.5	4.2	4.7	5.2	4.9	4.8	4.9
90°	14.1	12.6	11.1	9.2	7.2	5.1	2.9	0.8	2.9	5.1	7.2
92.5°	18.5	17.7	16.9	16.6	16.8	17.0	17.2	17.3	17.2	17.0	16.8
95°	30.9	29.6	28.2	30.7	37.0	43.4	49.7	56.0	49.7	43.4	37.0
97.5°	38.7	35.6	32.5	39.9	57.7	75.5	93.2	111.0	93.2	75.5	57.7
100°	42.6	39.3	36.1	47.5	73.7	99.9	126.1	152.4	126.1	99.9	73.7
102.5°	104.8	132.1	159.3	175.6	181.2	186.7	192.3	197.8	192.3	186.7	181.2
105°	156.9	209.2	261.4	284.6	278.9	273.1	267.4	261.6	267.4	273.1	278.9
107.5°	198.8	261.4	324.0	353.1	348.4	343.7	339.1	334.5	339.1	343.7	348.4
110°	261.2	316.5	371.7	397.4	393.4	389.4	385.4	381.4	385.4	389.4	393.4



TEST NUMBER: P331633-830

CATALOG NUMBER: SA2XXRDIP-C290D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	407.3	420.9	434.6	439.6	436.1	432.5	429.0	425.4	429.0	432.5	436.1
115°	521.6	516.8	512.0	507.9	504.7	501.4	498.2	494.9	498.2	501.4	504.7
117.5°	581.7	578.4	575.1	571.7	568.1	564.4	560.7	557.1	560.7	564.4	568.1
120°	624.1	620.7	617.2	614.1	611.1	608.3	605.4	602.6	605.4	608.3	611.1
122.5°	664.1	660.3	656.6	653.2	650.2	647.1	644.1	641.1	644.1	647.1	650.2
125°	720.1	716.5	712.8	709.8	707.3	704.8	702.3	699.8	702.3	704.8	707.3
127.5°	772.2	769.5	766.8	764.0	761.3	758.6	755.8	753.0	755.8	758.6	761.3
130°	805.8	803.7	801.6	799.0	796.0	792.9	789.9	786.8	789.9	792.9	796.0
132.5°	838.2	836.1	834.0	831.6	829.1	826.4	823.8	821.2	823.8	826.4	829.1
135°	884.1	882.3	880.6	878.3	875.2	872.1	869.0	866.0	869.0	872.1	875.2
137.5°	925.8	923.8	921.9	919.8	917.7	915.6	913.4	911.3	913.4	915.6	917.7
140°	953.0	950.9	948.9	947.0	945.5	944.0	942.4	940.8	942.4	944.0	945.5
142.5°	977.9	975.4	973.1	971.2	969.8	968.5	967.0	965.6	967.0	968.5	969.8
145°	1011.8	1008.6	1005.3	1003.8	1004.0	1004.2	1004.4	1004.6	1004.4	1004.2	1004.0
147.5°	1043.3	1040.0	1036.8	1035.6	1036.3	1037.1	1037.7	1038.5	1037.7	1037.1	1036.3
150°	1062.2	1059.1	1056.0	1055.2	1056.5	1057.8	1059.2	1060.5	1059.2	1057.8	1056.5
152.5°	1079.7	1076.8	1073.8	1073.2	1074.7	1076.1	1077.6	1079.1	1077.6	1076.1	1074.7
155°	1104.2	1101.8	1099.6	1099.3	1101.0	1102.7	1104.5	1106.2	1104.5	1102.7	1101.0
157.5°	1124.8	1123.2	1121.6	1121.5	1122.9	1124.5	1125.9	1127.3	1125.9	1124.5	1122.9
160°	1137.5	1136.2	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7	1138.6	1137.5	1136.2
162.5°	1148.0	1147.1	1146.0	1146.1	1147.3	1148.5	1149.6	1150.8	1149.6	1148.5	1147.3
165°	1161.8	1161.2	1160.6	1160.9	1162.1	1163.3	1164.4	1165.5	1164.4	1163.3	1162.1
167.5°	1172.7	1172.2	1171.7	1172.0	1173.1	1174.3	1175.4	1176.6	1175.4	1174.3	1173.1
170°	1178.6	1178.2	1177.8	1178.2	1179.3	1180.4	1181.6	1182.8	1181.6	1180.4	1179.3
172.5°	1182.7	1182.3	1181.9	1182.3	1183.5	1184.6	1185.7	1186.8	1185.7	1184.6	1183.5
175°	1187.1	1186.8	1186.4	1186.8	1188.2	1189.6	1190.9	1192.2	1190.9	1189.6	1188.2
177.5°	1188.6	1188.5	1188.4	1188.8	1189.9	1191.0	1192.0	1193.1	1192.0	1191.0	1189.9
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331633-830

CATALOG NUMBER: SA2XXRDIP-C290D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	607.5	606.2	604.0	600.6	598.5	594.9	592.6	593.9	594.3	593.9	593.6
5°	591.2	586.6	580.4	574.4	568.8	562.9	559.4	558.0	555.0	553.3	552.3
7.5°	571.4	563.6	554.9	544.4	535.6	526.2	521.5	519.2	513.0	509.7	506.8
10°	556.7	544.4	535.6	522.0	513.6	501.4	493.0	493.3	484.9	480.2	476.8
12.5°	540.4	527.0	512.4	500.0	488.4	478.6	468.5	464.5	455.6	451.1	441.9
15°	513.4	497.8	482.4	465.7	453.9	438.7	424.1	406.3	392.0	379.6	376.2
17.5°	484.0	464.6	449.1	429.5	409.3	383.8	366.9	356.6	348.0	341.4	336.5
20°	463.7	444.0	427.5	398.0	370.8	353.5	341.1	333.1	324.1	317.1	313.2
22.5°	442.5	422.0	399.4	366.5	345.3	331.4	320.4	311.2	305.1	299.6	296.1
25°	412.4	389.8	352.8	330.2	313.0	298.4	290.8	285.2	278.8	271.3	267.9
27.5°	380.5	344.8	318.1	301.2	284.9	275.5	268.5	260.2	254.5	251.1	247.5
30°	356.7	320.9	300.2	281.7	270.2	259.7	251.6	246.9	241.3	235.5	233.2
32.5°	330.2	301.6	281.6	266.4	254.6	245.6	239.2	231.6	227.6	224.0	219.1
35°	297.2	275.5	257.3	245.0	233.8	226.5	219.0	214.5	207.3	204.2	202.4
37.5°	269.3	250.5	237.0	223.9	215.0	207.0	202.4	195.2	192.1	187.8	183.8
40°	253.4	235.1	222.1	211.3	201.4	195.5	189.7	183.9	179.2	177.3	172.4
42.5°	237.4	222.4	209.3	197.7	191.1	184.6	177.4	173.1	168.2	165.1	162.1
45°	215.2	201.9	190.8	181.2	173.8	167.2	162.5	155.4	152.7	146.5	143.8
47.5°	195.7	183.3	172.7	163.5	156.5	152.1	145.2	139.7	135.3	131.4	128.1
50°	181.8	171.4	161.2	153.1	146.7	140.4	133.4	130.6	123.8	121.8	119.9
52.5°	169.1	159.3	150.0	141.9	135.5	129.5	123.3	119.6	115.0	113.1	111.7
55°	151.4	141.9	133.0	125.9	119.5	113.3	109.4	104.9	102.7	101.2	99.5
57.5°	133.6	125.1	118.2	111.0	104.5	99.6	95.2	92.5	90.3	88.3	86.2
60°	122.2	114.1	107.9	101.2	94.6	90.6	87.2	83.9	81.3	78.3	77.5
62.5°	110.3	103.1	97.5	91.0	85.2	81.5	78.2	75.2	72.1	67.8	66.5
65°	93.8	88.2	82.2	76.8	71.7	68.1	63.3	59.9	58.6	58.2	58.1
67.5°	78.9	73.6	68.4	63.0	58.3	55.0	52.5	52.0	51.1	50.9	50.2
70°	68.9	64.0	58.9	53.7	49.2	48.6	47.8	46.8	45.8	45.4	45.0
72.5°	60.0	55.0	49.8	45.7	43.7	43.0	42.1	41.2	40.5	40.1	39.9
75°	46.0	41.3	37.9	36.4	35.3	34.7	33.4	32.8	32.3	31.7	31.5
77.5°	33.2	30.4	28.9	28.0	26.9	26.2	25.4	24.8	24.3	24.2	23.8
80°	25.3	23.9	22.9	21.6	21.2	20.4	20.2	19.5	19.7	19.0	19.0
82.5°	19.6	18.0	17.1	16.5	16.0	15.4	15.2	14.9	14.9	14.4	14.4
85°	10.1	9.6	9.2	8.8	8.8	8.1	8.4	8.1	8.1	7.7	7.5
87.5°	5.1	5.3	5.3	5.6	5.8	6.0	6.2	6.2	6.4	6.6	6.6
90°	9.2	11.1	12.6	14.1	15.6	17.2	18.2	19.1	20.1	21.0	21.7
92.5°	16.6	16.9	17.7	18.5	19.2	20.0	20.5	20.9	21.5	22.0	22.3
95°	30.7	28.2	29.6	30.9	32.2	33.6	34.5	35.4	36.5	37.4	37.8
97.5°	39.9	32.5	35.6	38.7	41.8	45.0	45.7	46.5	47.2	48.0	48.4
100°	47.5	36.1	39.3	42.6	45.8	49.1	50.6	52.1	53.6	55.2	56.2
102.5°	175.6	159.3	132.1	104.8	77.7	50.4	52.4	54.4	56.5	58.4	59.7
105°	284.6	261.4	209.2	156.9	104.7	52.5	54.6	56.7	58.8	60.9	62.4
107.5°	353.1	324.0	261.4	198.8	136.1	73.5	71.4	69.2	67.1	64.9	64.3
110°	397.4	371.7	316.5	261.2	205.9	150.6	131.5	112.4	93.2	74.1	64.9



TEST NUMBER: P331633-830

CATALOG NUMBER: SA2XXRDIP-C290D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	439.6	434.6	420.9	407.3	393.6	379.9	310.2	240.4	170.6	100.9	66.3
115°	507.9	512.0	516.8	521.6	526.3	531.1	442.5	354.0	265.4	176.8	125.6
117.5°	571.7	575.1	578.4	581.7	585.0	588.2	566.8	545.4	524.1	502.6	469.2
120°	614.1	617.2	620.7	624.1	627.5	630.9	633.3	635.6	637.9	640.2	628.4
122.5°	653.2	656.6	660.3	664.1	667.9	671.7	673.0	674.4	675.7	677.1	675.3
125°	709.8	712.8	716.5	720.1	723.8	727.4	728.8	730.1	731.4	732.7	733.7
127.5°	764.0	766.8	769.5	772.2	775.0	777.7	779.6	781.6	783.5	785.5	786.5
130°	799.0	801.6	803.7	805.8	807.9	810.0	812.1	814.3	816.3	818.4	819.4
132.5°	831.6	834.0	836.1	838.2	840.3	842.4	844.2	846.0	847.8	849.6	850.4
135°	878.3	880.6	882.3	884.1	885.8	887.5	889.4	891.4	893.2	895.1	895.9
137.5°	919.8	921.9	923.8	925.8	927.7	929.7	931.5	933.4	935.3	937.2	937.8
140°	947.0	948.9	950.9	953.0	955.2	957.2	958.9	960.6	962.4	964.1	964.5
142.5°	971.2	973.1	975.4	977.9	980.3	982.7	984.3	985.8	987.4	989.0	989.3
145°	1003.8	1005.3	1008.6	1011.8	1015.1	1018.3	1019.6	1021.1	1022.4	1023.7	1023.9
147.5°	1035.6	1036.8	1040.0	1043.3	1046.5	1049.7	1050.7	1051.7	1052.6	1053.7	1053.8
150°	1055.2	1056.0	1059.1	1062.2	1065.3	1068.3	1069.4	1070.5	1071.8	1072.9	1073.0
152.5°	1073.2	1073.8	1076.8	1079.7	1082.6	1085.5	1086.7	1087.8	1088.9	1090.1	1090.1
155°	1099.3	1099.6	1101.8	1104.2	1106.5	1108.7	1109.8	1111.1	1112.2	1113.3	1113.1
157.5°	1121.5	1121.6	1123.2	1124.8	1126.4	1128.0	1129.4	1130.6	1131.9	1133.2	1133.1
160°	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7	1140.9	1142.0	1143.2	1144.3	1144.2
162.5°	1146.1	1146.0	1147.1	1148.0	1149.1	1150.1	1151.3	1152.6	1154.0	1155.3	1155.1
165°	1160.9	1160.6	1161.2	1161.8	1162.4	1163.0	1164.3	1165.6	1167.0	1168.3	1168.3
167.5°	1172.0	1171.7	1172.2	1172.7	1173.3	1173.8	1175.2	1176.5	1177.8	1179.2	1178.9
170°	1178.2	1177.8	1178.2	1178.6	1178.9	1179.3	1180.6	1182.0	1183.4	1184.7	1184.5
172.5°	1182.3	1181.9	1182.3	1182.7	1183.1	1183.5	1184.8	1186.1	1187.5	1188.8	1188.6
175°	1186.8	1186.4	1186.8	1187.1	1187.5	1187.9	1189.3	1190.6	1191.9	1193.3	1193.0
177.5°	1188.8	1188.4	1188.5	1188.6	1188.8	1188.9	1190.1	1191.1	1192.2	1193.3	1193.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331633-830
 CATALOG NUMBER: SA2XXRDIP-C290D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	591.7	592.0	591.5	591.8	591.5	592.0	591.7	593.6	593.9	594.3	593.9
5°	551.3	548.7	548.3	547.7	548.3	548.7	551.3	552.3	553.3	555.0	558.0
7.5°	503.1	502.8	501.6	500.1	501.6	502.8	503.1	506.8	509.7	513.0	519.2
10°	472.1	471.0	470.8	469.3	470.8	471.0	472.1	476.8	480.2	484.9	493.3
12.5°	435.7	428.9	428.2	424.4	428.2	428.9	435.7	441.9	451.1	455.6	464.5
15°	371.1	369.8	365.4	362.7	365.4	369.8	371.1	376.2	379.6	392.0	406.3
17.5°	334.0	329.8	328.5	327.9	328.5	329.8	334.0	336.5	341.4	348.0	356.6
20°	310.2	306.4	305.8	305.3	305.8	306.4	310.2	313.2	317.1	324.1	333.1
22.5°	293.8	289.7	288.1	286.8	288.1	289.7	293.8	296.1	299.6	305.1	311.2
25°	265.7	264.2	263.3	262.9	263.3	264.2	265.7	267.9	271.3	278.8	285.2
27.5°	243.7	240.4	239.8	238.7	239.8	240.4	243.7	247.5	251.1	254.5	260.2
30°	231.2	230.2	228.7	227.3	228.7	230.2	231.2	233.2	235.5	241.3	246.9
32.5°	216.5	215.6	214.2	213.7	214.2	215.6	216.5	219.1	224.0	227.6	231.6
35°	200.2	197.2	195.9	194.0	195.9	197.2	200.2	202.4	204.2	207.3	214.5
37.5°	182.9	181.3	179.6	180.2	179.6	181.3	182.9	183.8	187.8	192.1	195.2
40°	169.6	168.5	168.1	167.9	168.1	168.5	169.6	172.4	177.3	179.2	183.9
42.5°	158.9	156.0	154.9	154.9	154.9	156.0	158.9	162.1	165.1	168.2	173.1
45°	142.8	140.1	138.1	138.3	138.1	140.1	142.8	143.8	146.5	152.7	155.4
47.5°	126.3	126.2	125.0	125.4	125.0	126.2	126.3	128.1	131.4	135.3	139.7
50°	118.4	117.2	116.2	116.5	116.2	117.2	118.4	119.9	121.8	123.8	130.6
52.5°	110.8	109.7	109.1	110.0	109.1	109.7	110.8	111.7	113.1	115.0	119.6
55°	98.5	97.2	97.0	96.8	97.0	97.2	98.5	99.5	101.2	102.7	104.9
57.5°	84.6	83.8	82.5	82.0	82.5	83.8	84.6	86.2	88.3	90.3	92.5
60°	74.7	73.0	70.9	70.7	70.9	73.0	74.7	77.5	78.3	81.3	83.9
62.5°	65.6	65.3	64.8	64.8	64.8	65.3	65.6	66.5	67.8	72.1	75.2
65°	57.6	57.4	57.6	57.8	57.6	57.4	57.6	58.1	58.2	58.6	59.9
67.5°	50.1	49.8	49.4	49.6	49.4	49.8	50.1	50.2	50.9	51.1	52.0
70°	44.5	44.3	44.1	44.1	44.1	44.3	44.5	45.0	45.4	45.8	46.8
72.5°	39.0	39.0	38.8	38.6	38.8	39.0	39.0	39.9	40.1	40.5	41.2
75°	31.3	30.8	30.8	30.8	30.8	30.8	31.3	31.5	31.7	32.3	32.8
77.5°	23.8	23.6	23.4	23.2	23.4	23.6	23.8	23.8	24.2	24.3	24.8
80°	18.9	18.7	18.4	18.4	18.4	18.7	18.9	19.0	19.0	19.7	19.5
82.5°	14.4	14.1	14.1	13.9	14.1	14.1	14.4	14.4	14.4	14.9	14.9
85°	7.7	7.9	7.7	8.1	7.7	7.9	7.7	7.5	7.7	8.1	8.1
87.5°	6.7	6.6	6.8	6.7	6.8	6.6	6.7	6.6	6.6	6.4	6.2
90°	22.1	22.4	22.9	23.3	22.9	22.4	22.1	21.7	21.0	20.1	19.1
92.5°	22.5	22.8	23.0	23.3	23.0	22.8	22.5	22.3	22.0	21.5	20.9
95°	37.6	37.4	37.2	37.0	37.2	37.4	37.6	37.8	37.4	36.5	35.4
97.5°	48.7	48.9	49.2	49.4	49.2	48.9	48.7	48.4	48.0	47.2	46.5
100°	56.6	56.9	57.3	57.7	57.3	56.9	56.6	56.2	55.2	53.6	52.1
102.5°	60.2	60.7	61.3	61.8	61.3	60.7	60.2	59.7	58.4	56.5	54.4
105°	63.2	63.9	64.7	65.4	64.7	63.9	63.2	62.4	60.9	58.8	56.7
107.5°	65.0	65.8	66.5	67.3	66.5	65.8	65.0	64.3	64.9	67.1	69.2
110°	65.7	66.4	67.2	68.1	67.2	66.4	65.7	64.9	74.1	93.2	112.4



TEST NUMBER: P331633-830

CATALOG NUMBER: SA2XXRDIP-C290D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	66.8	67.5	68.1	68.7	68.1	67.5	66.8	66.3	100.9	170.6	240.4
115°	111.9	98.1	84.4	70.6	84.4	98.1	111.9	125.6	176.8	265.4	354.0
117.5°	424.0	378.7	333.5	288.2	333.5	378.7	424.0	469.2	502.6	524.1	545.4
120°	602.6	576.7	550.9	525.1	550.9	576.7	602.6	628.4	640.2	637.9	635.6
122.5°	670.3	665.2	660.3	655.3	660.3	665.2	670.3	675.3	677.1	675.7	674.4
125°	734.2	734.8	735.5	736.0	735.5	734.8	734.2	733.7	732.7	731.4	730.1
127.5°	786.6	786.7	786.8	786.9	786.8	786.7	786.6	786.5	785.5	783.5	781.6
130°	819.3	819.0	818.8	818.6	818.8	819.0	819.3	819.4	818.4	816.3	814.3
132.5°	850.2	850.0	849.8	849.6	849.8	850.0	850.2	850.4	849.6	847.8	846.0
135°	895.5	895.1	894.8	894.4	894.8	895.1	895.5	895.9	895.1	893.2	891.4
137.5°	937.2	936.5	935.9	935.2	935.9	936.5	937.2	937.8	937.2	935.3	933.4
140°	963.6	962.6	961.7	960.6	961.7	962.6	963.6	964.5	964.1	962.4	960.6
142.5°	988.4	987.4	986.5	985.4	986.5	987.4	988.4	989.3	989.0	987.4	985.8
145°	1022.9	1022.0	1021.1	1020.1	1021.1	1022.0	1022.9	1023.9	1023.7	1022.4	1021.1
147.5°	1052.9	1052.2	1051.3	1050.6	1051.3	1052.2	1052.9	1053.8	1053.7	1052.6	1051.7
150°	1072.0	1071.0	1070.1	1069.1	1070.1	1071.0	1072.0	1073.0	1072.9	1071.8	1070.5
152.5°	1088.7	1087.5	1086.3	1085.0	1086.3	1087.5	1088.7	1090.1	1090.1	1088.9	1087.8
155°	1111.6	1110.0	1108.5	1107.0	1108.5	1110.0	1111.6	1113.1	1113.3	1112.2	1111.1
157.5°	1131.6	1130.1	1128.6	1127.2	1128.6	1130.1	1131.6	1133.1	1133.2	1131.9	1130.6
160°	1142.8	1141.5	1140.2	1138.9	1140.2	1141.5	1142.8	1144.2	1144.3	1143.2	1142.0
162.5°	1153.5	1151.8	1150.2	1148.5	1150.2	1151.8	1153.5	1155.1	1155.3	1154.0	1152.6
165°	1167.0	1165.6	1164.3	1163.0	1164.3	1165.6	1167.0	1168.3	1168.3	1167.0	1165.6
167.5°	1177.2	1175.5	1173.8	1172.1	1173.8	1175.5	1177.2	1178.9	1179.2	1177.8	1176.5
170°	1182.8	1181.0	1179.3	1177.6	1179.3	1181.0	1182.8	1184.5	1184.7	1183.4	1182.0
172.5°	1186.8	1185.2	1183.5	1181.8	1183.5	1185.2	1186.8	1188.6	1188.8	1187.5	1186.1
175°	1191.1	1189.2	1187.2	1185.3	1187.2	1189.2	1191.1	1193.0	1193.3	1191.9	1190.6
177.5°	1191.8	1190.3	1188.9	1187.6	1188.9	1190.3	1191.8	1193.1	1193.3	1192.2	1191.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331633-830

CATALOG NUMBER: SA2XXRDIP-C290D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	592.6	594.9	598.5	600.6	604.0	606.2	607.5	609.6	610.9	615.2	619.6
5°	559.4	562.9	568.8	574.4	580.4	586.6	591.2	596.3	601.0	609.1	617.6
7.5°	521.5	526.2	535.6	544.4	554.9	563.6	571.4	580.1	588.0	599.6	611.8
10°	493.0	501.4	513.6	522.0	535.6	544.4	556.7	566.3	577.2	592.7	606.3
12.5°	468.5	478.6	488.4	500.0	512.4	527.0	540.4	552.8	565.7	581.6	597.8
15°	424.1	438.7	453.9	465.7	482.4	497.8	513.4	530.1	545.9	565.1	586.0
17.5°	366.9	383.8	409.3	429.5	449.1	464.6	484.0	504.2	522.8	545.8	569.2
20°	341.1	353.5	370.8	398.0	427.5	444.0	463.7	486.0	507.4	532.4	557.5
22.5°	320.4	331.4	345.3	366.5	399.4	422.0	442.5	465.1	489.9	515.5	543.3
25°	290.8	298.4	313.0	330.2	352.8	389.8	412.4	435.1	462.0	489.5	521.1
27.5°	268.5	275.5	284.9	301.2	318.1	344.8	380.5	405.3	432.2	463.0	495.9
30°	251.6	259.7	270.2	281.7	300.2	320.9	356.7	385.4	411.9	443.7	478.7
32.5°	239.2	245.6	254.6	266.4	281.6	301.6	330.2	365.0	390.9	424.2	460.9
35°	219.0	226.5	233.8	245.0	257.3	275.5	297.2	334.4	360.1	393.0	429.9
37.5°	202.4	207.0	215.0	223.9	237.0	250.5	269.3	302.7	330.5	362.8	400.5
40°	189.7	195.5	201.4	211.3	222.1	235.1	253.4	278.3	310.2	342.0	378.7
42.5°	177.4	184.6	191.1	197.7	209.3	222.4	237.4	258.4	291.1	321.0	356.8
45°	162.5	167.2	173.8	181.2	190.8	201.9	215.2	233.6	264.9	290.8	324.3
47.5°	145.2	152.1	156.5	163.5	172.7	183.3	195.7	211.6	236.9	261.2	292.4
50°	133.4	140.4	146.7	153.1	161.2	171.4	181.8	197.2	217.5	243.0	272.1
52.5°	123.3	129.5	135.5	141.9	150.0	159.3	169.1	182.7	200.0	223.5	251.8
55°	109.4	113.3	119.5	125.9	133.0	141.9	151.4	162.7	177.7	197.4	220.3
57.5°	95.2	99.6	104.5	111.0	118.2	125.1	133.6	143.8	155.6	173.4	193.0
60°	87.2	90.6	94.6	101.2	107.9	114.1	122.2	130.8	141.9	157.4	174.1
62.5°	78.2	81.5	85.2	91.0	97.5	103.1	110.3	119.3	128.8	142.8	157.4
65°	63.3	68.1	71.7	76.8	82.2	88.2	93.8	101.0	109.4	120.6	133.6
67.5°	52.5	55.0	58.3	63.0	68.4	73.6	78.9	84.5	91.8	100.4	110.7
70°	47.8	48.6	49.2	53.7	58.9	64.0	68.9	74.3	80.5	87.6	96.5
72.5°	42.1	43.0	43.7	45.7	49.8	55.0	60.0	64.0	69.8	75.8	83.0
75°	33.4	34.7	35.3	36.4	37.9	41.3	46.0	49.9	53.3	57.8	63.6
77.5°	25.4	26.2	26.9	28.0	28.9	30.4	33.2	36.6	39.9	42.4	46.4
80°	20.2	20.4	21.2	21.6	22.9	23.9	25.3	28.1	31.3	32.3	35.2
82.5°	15.2	15.4	16.0	16.5	17.1	18.0	19.6	20.4	22.9	24.3	26.0
85°	8.4	8.1	8.8	8.8	9.2	9.6	10.1	11.1	11.8	13.5	13.9
87.5°	6.2	6.0	5.8	5.6	5.3	5.3	5.1	4.9	4.8	4.9	5.2
90°	18.2	17.2	15.6	14.1	12.6	11.1	9.2	7.2	5.1	2.9	0.8
92.5°	20.5	20.0	19.2	18.5	17.7	16.9	16.6	16.8	17.0	17.2	17.3
95°	34.5	33.6	32.2	30.9	29.6	28.2	30.7	37.0	43.4	49.7	56.0
97.5°	45.7	45.0	41.8	38.7	35.6	32.5	39.9	57.7	75.5	93.2	111.0
100°	50.6	49.1	45.8	42.6	39.3	36.1	47.5	73.7	99.9	126.1	152.4
102.5°	52.4	50.4	77.7	104.8	132.1	159.3	175.6	181.2	186.7	192.3	197.8
105°	54.6	52.5	104.7	156.9	209.2	261.4	284.6	278.9	273.1	267.4	261.6
107.5°	71.4	73.5	136.1	198.8	261.4	324.0	353.1	348.4	343.7	339.1	334.5
110°	131.5	150.6	205.9	261.2	316.5	371.7	397.4	393.4	389.4	385.4	381.4



TEST NUMBER: P331633-830

CATALOG NUMBER: SA2XXRDIP-C290D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	310.2	379.9	393.6	407.3	420.9	434.6	439.6	436.1	432.5	429.0	425.4
115°	442.5	531.1	526.3	521.6	516.8	512.0	507.9	504.7	501.4	498.2	494.9
117.5°	566.8	588.2	585.0	581.7	578.4	575.1	571.7	568.1	564.4	560.7	557.1
120°	633.3	630.9	627.5	624.1	620.7	617.2	614.1	611.1	608.3	605.4	602.6
122.5°	673.0	671.7	667.9	664.1	660.3	656.6	653.2	650.2	647.1	644.1	641.1
125°	728.8	727.4	723.8	720.1	716.5	712.8	709.8	707.3	704.8	702.3	699.8
127.5°	779.6	777.7	775.0	772.2	769.5	766.8	764.0	761.3	758.6	755.8	753.0
130°	812.1	810.0	807.9	805.8	803.7	801.6	799.0	796.0	792.9	789.9	786.8
132.5°	844.2	842.4	840.3	838.2	836.1	834.0	831.6	829.1	826.4	823.8	821.2
135°	889.4	887.5	885.8	884.1	882.3	880.6	878.3	875.2	872.1	869.0	866.0
137.5°	931.5	929.7	927.7	925.8	923.8	921.9	919.8	917.7	915.6	913.4	911.3
140°	958.9	957.2	955.2	953.0	950.9	948.9	947.0	945.5	944.0	942.4	940.8
142.5°	984.3	982.7	980.3	977.9	975.4	973.1	971.2	969.8	968.5	967.0	965.6
145°	1019.6	1018.3	1015.1	1011.8	1008.6	1005.3	1003.8	1004.0	1004.2	1004.4	1004.6
147.5°	1050.7	1049.7	1046.5	1043.3	1040.0	1036.8	1035.6	1036.3	1037.1	1037.7	1038.5
150°	1069.4	1068.3	1065.3	1062.2	1059.1	1056.0	1055.2	1056.5	1057.8	1059.2	1060.5
152.5°	1086.7	1085.5	1082.6	1079.7	1076.8	1073.8	1073.2	1074.7	1076.1	1077.6	1079.1
155°	1109.8	1108.7	1106.5	1104.2	1101.8	1099.6	1099.3	1101.0	1102.7	1104.5	1106.2
157.5°	1129.4	1128.0	1126.4	1124.8	1123.2	1121.6	1121.5	1122.9	1124.5	1125.9	1127.3
160°	1140.9	1139.7	1138.6	1137.5	1136.2	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7
162.5°	1151.3	1150.1	1149.1	1148.0	1147.1	1146.0	1146.1	1147.3	1148.5	1149.6	1150.8
165°	1164.3	1163.0	1162.4	1161.8	1161.2	1160.6	1160.9	1162.1	1163.3	1164.4	1165.5
167.5°	1175.2	1173.8	1173.3	1172.7	1172.2	1171.7	1172.0	1173.1	1174.3	1175.4	1176.6
170°	1180.6	1179.3	1178.9	1178.6	1178.2	1177.8	1178.2	1179.3	1180.4	1181.6	1182.8
172.5°	1184.8	1183.5	1183.1	1182.7	1182.3	1181.9	1182.3	1183.5	1184.6	1185.7	1186.8
175°	1189.3	1187.9	1187.5	1187.1	1186.8	1186.4	1186.8	1188.2	1189.6	1190.9	1192.2
177.5°	1190.1	1188.9	1188.8	1188.6	1188.5	1188.4	1188.8	1189.9	1191.0	1192.0	1193.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331633-830

CATALOG NUMBER: SA2XXRDIP-C290D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	619.8	620.3	623.7	625.3	628.3	629.5	630.9	630.6	630.6	631.2	636.0
5°	621.1	625.4	631.8	638.0	644.0	649.1	652.6	656.0	657.3	663.5	669.0
7.5°	618.9	626.8	637.3	646.9	658.2	667.0	674.4	681.1	685.6	694.7	703.9
10°	616.0	627.1	639.0	651.3	666.9	678.7	690.7	699.9	702.9	716.3	724.1
12.5°	610.1	625.0	640.3	656.1	671.4	687.6	700.8	710.0	720.6	732.6	746.9
15°	601.4	618.5	638.5	658.7	680.6	700.3	714.4	730.5	742.1	755.4	767.8
17.5°	588.9	611.0	636.2	659.8	685.0	706.2	725.7	741.0	749.1	756.8	758.6
20°	578.9	602.7	632.4	660.3	685.5	709.9	729.2	742.1	744.2	744.4	733.1
22.5°	568.2	595.0	626.1	654.6	684.9	712.0	727.0	732.4	724.0	709.5	687.5
25°	548.3	579.4	615.6	648.1	681.1	706.7	711.9	702.3	672.5	641.2	601.6
27.5°	526.8	561.8	600.5	636.7	671.8	687.8	676.7	641.9	588.3	541.7	485.2
30°	511.0	550.3	588.3	628.8	661.4	668.2	642.7	591.5	529.0	458.8	402.5
32.5°	493.0	534.1	576.0	617.8	645.1	638.4	596.3	533.3	460.1	391.0	337.8
35°	467.4	509.7	555.0	596.9	614.3	585.3	522.4	440.4	365.4	301.0	264.4
37.5°	437.7	483.9	530.8	569.4	568.2	520.0	434.2	349.6	286.6	248.5	222.4
40°	416.6	463.4	514.1	546.6	532.7	470.0	377.0	297.2	251.1	220.7	201.7
42.5°	396.4	443.3	493.7	519.5	495.3	418.2	325.6	263.1	225.1	201.4	186.0
45°	362.0	411.5	458.2	472.5	429.2	344.3	263.3	217.9	192.7	175.1	164.5
47.5°	328.4	377.1	419.7	419.9	361.5	279.2	222.2	188.6	167.0	153.4	145.7
50°	307.8	354.1	389.8	384.3	317.9	248.4	198.7	169.8	151.8	141.3	133.2
52.5°	284.7	329.6	360.6	344.8	281.1	218.6	177.6	153.4	138.5	129.3	122.1
55°	251.1	291.0	312.8	288.8	229.3	181.8	150.1	131.0	119.9	112.2	105.9
57.5°	218.1	251.0	264.7	236.8	188.9	150.7	127.0	112.6	101.6	96.0	92.8
60°	197.4	225.5	235.1	204.2	164.2	131.9	112.4	99.2	91.0	87.4	84.2
62.5°	177.0	199.9	203.9	175.7	143.2	115.5	98.7	87.5	82.1	78.6	75.6
65°	146.8	163.3	161.5	138.7	113.3	91.6	79.5	72.6	68.5	63.6	58.2
67.5°	120.9	131.0	124.9	107.9	86.4	71.3	63.2	58.1	53.0	48.4	47.1
70°	104.4	110.3	103.9	88.2	70.9	59.8	53.3	47.1	44.1	43.1	41.1
72.5°	88.7	90.8	83.8	70.4	57.7	49.5	43.2	39.8	38.1	37.2	36.0
75°	66.5	65.1	59.1	48.6	40.1	34.5	32.5	31.3	30.2	29.3	28.7
77.5°	46.8	44.6	39.2	32.3	27.9	25.3	24.0	23.4	22.9	22.4	21.8
80°	35.2	33.6	28.3	23.1	21.2	19.9	19.2	18.4	18.4	18.0	17.3
82.5°	25.7	24.0	19.3	17.0	15.9	15.1	14.6	14.1	13.9	14.0	13.6
85°	13.5	10.9	9.6	9.2	8.6	8.1	8.4	7.9	7.9	7.9	7.7
87.5°	4.7	4.2	4.5	4.8	5.3	5.6	5.7	6.0	6.5	6.5	6.9
90°	2.9	5.1	7.2	9.2	11.1	12.6	14.1	15.6	17.2	18.2	19.1
92.5°	17.2	17.0	16.8	16.6	16.9	17.7	18.5	19.2	20.0	20.5	20.9
95°	49.7	43.4	37.0	30.7	28.2	29.6	30.9	32.2	33.6	34.5	35.4
97.5°	93.2	75.5	57.7	39.9	32.5	35.6	38.7	41.8	45.0	45.7	46.5
100°	126.1	99.9	73.7	47.5	36.1	39.3	42.6	45.8	49.1	50.6	52.1
102.5°	192.3	186.7	181.2	175.6	159.3	132.1	104.8	77.7	50.4	52.4	54.4
105°	267.4	273.1	278.9	284.6	261.4	209.2	156.9	104.7	52.5	54.6	56.7
107.5°	339.1	343.7	348.4	353.1	324.0	261.4	198.8	136.1	73.5	71.4	69.2
110°	385.4	389.4	393.4	397.4	371.7	316.5	261.2	205.9	150.6	131.5	112.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	429.0	432.5	436.1	439.6	434.6	420.9	407.3	393.6	379.9	310.2	240.4
115°	498.2	501.4	504.7	507.9	512.0	516.8	521.6	526.3	531.1	442.5	354.0
117.5°	560.7	564.4	568.1	571.7	575.1	578.4	581.7	585.0	588.2	566.8	545.4
120°	605.4	608.3	611.1	614.1	617.2	620.7	624.1	627.5	630.9	633.3	635.6
122.5°	644.1	647.1	650.2	653.2	656.6	660.3	664.1	667.9	671.7	673.0	674.4
125°	702.3	704.8	707.3	709.8	712.8	716.5	720.1	723.8	727.4	728.8	730.1
127.5°	755.8	758.6	761.3	764.0	766.8	769.5	772.2	775.0	777.7	779.6	781.6
130°	789.9	792.9	796.0	799.0	801.6	803.7	805.8	807.9	810.0	812.1	814.3
132.5°	823.8	826.4	829.1	831.6	834.0	836.1	838.2	840.3	842.4	844.2	846.0
135°	869.0	872.1	875.2	878.3	880.6	882.3	884.1	885.8	887.5	889.4	891.4
137.5°	913.4	915.6	917.7	919.8	921.9	923.8	925.8	927.7	929.7	931.5	933.4
140°	942.4	944.0	945.5	947.0	948.9	950.9	953.0	955.2	957.2	958.9	960.6
142.5°	967.0	968.5	969.8	971.2	973.1	975.4	977.9	980.3	982.7	984.3	985.8
145°	1004.4	1004.2	1004.0	1003.8	1005.3	1008.6	1011.8	1015.1	1018.3	1019.6	1021.1
147.5°	1037.7	1037.1	1036.3	1035.6	1036.8	1040.0	1043.3	1046.5	1049.7	1050.7	1051.7
150°	1059.2	1057.8	1056.5	1055.2	1056.0	1059.1	1062.2	1065.3	1068.3	1069.4	1070.5
152.5°	1077.6	1076.1	1074.7	1073.2	1073.8	1076.8	1079.7	1082.6	1085.5	1086.7	1087.8
155°	1104.5	1102.7	1101.0	1099.3	1099.6	1101.8	1104.2	1106.5	1108.7	1109.8	1111.1
157.5°	1125.9	1124.5	1122.9	1121.5	1121.6	1123.2	1124.8	1126.4	1128.0	1129.4	1130.6
160°	1138.6	1137.5	1136.2	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7	1140.9	1142.0
162.5°	1149.6	1148.5	1147.3	1146.1	1146.0	1147.1	1148.0	1149.1	1150.1	1151.3	1152.6
165°	1164.4	1163.3	1162.1	1160.9	1160.6	1161.2	1161.8	1162.4	1163.0	1164.3	1165.6
167.5°	1175.4	1174.3	1173.1	1172.0	1171.7	1172.2	1172.7	1173.3	1173.8	1175.2	1176.5
170°	1181.6	1180.4	1179.3	1178.2	1177.8	1178.2	1178.6	1178.9	1179.3	1180.6	1182.0
172.5°	1185.7	1184.6	1183.5	1182.3	1181.9	1182.3	1182.7	1183.1	1183.5	1184.8	1186.1
175°	1190.9	1189.6	1188.2	1186.8	1186.4	1186.8	1187.1	1187.5	1187.9	1189.3	1190.6
177.5°	1192.0	1191.0	1189.9	1188.8	1188.4	1188.5	1188.6	1188.8	1188.9	1190.1	1191.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	637.7	640.0	641.0	641.0	642.2	641.7	641.2
5°	674.4	678.4	679.4	683.2	686.0	685.1	685.5
7.5°	710.9	717.4	723.9	726.8	727.3	729.0	729.6
10°	733.3	738.7	748.7	747.2	754.7	759.0	752.0
12.5°	754.9	762.1	769.1	771.0	775.2	776.7	773.8
15°	774.4	778.3	778.6	777.6	778.9	777.8	773.7
17.5°	756.2	749.9	737.3	731.2	726.5	719.4	716.6
20°	726.0	707.6	686.2	677.6	667.6	647.9	652.6
22.5°	660.9	640.0	618.5	593.5	581.5	562.9	561.8
25°	559.7	523.5	483.6	455.8	439.5	420.9	412.7
27.5°	435.2	389.6	356.9	340.4	325.4	310.7	310.0
30°	353.3	319.1	293.8	279.7	270.4	264.2	265.5
32.5°	297.7	274.3	257.2	245.5	238.7	234.0	233.9
35°	243.5	227.3	216.4	211.5	206.6	203.2	203.4
37.5°	208.3	198.7	192.6	187.2	184.1	182.4	181.4
40°	190.3	182.4	177.7	174.5	171.9	169.6	169.1
42.5°	176.2	169.6	164.9	162.3	159.9	158.3	157.9
45°	156.3	150.9	146.7	143.8	142.8	141.3	141.3
47.5°	139.0	133.7	130.4	128.7	126.9	125.8	125.8
50°	127.4	123.3	120.4	119.2	117.7	117.2	116.9
52.5°	117.0	113.9	111.8	111.0	110.4	109.6	109.7
55°	102.7	101.0	100.2	99.5	98.5	97.2	98.0
57.5°	90.9	89.4	87.1	85.0	84.1	83.1	83.5
60°	82.5	79.5	76.4	74.1	73.4	71.5	71.5
62.5°	71.8	67.6	63.9	62.6	61.9	61.1	60.9
65°	55.2	53.5	52.7	51.8	51.4	51.4	51.0
67.5°	45.8	45.1	44.1	43.9	43.5	43.4	43.3
70°	40.4	39.6	39.2	38.9	38.5	38.7	38.1
72.5°	35.3	34.7	34.6	34.0	33.7	33.7	33.3
75°	27.8	27.8	27.6	27.4	27.0	26.8	27.0
77.5°	21.4	21.5	21.1	21.0	21.0	21.0	20.8
80°	17.2	17.3	17.2	16.9	16.7	16.9	16.7
82.5°	13.6	13.2	13.2	13.1	13.1	13.0	12.9
85°	7.7	7.9	7.7	7.5	7.5	7.5	7.7
87.5°	7.0	7.2	7.3	7.4	7.4	7.4	7.4
90°	20.1	21.0	21.7	22.1	22.4	22.9	23.3
92.5°	21.5	22.0	22.3	22.5	22.8	23.0	23.3
95°	36.5	37.4	37.8	37.6	37.4	37.2	37.0
97.5°	47.2	48.0	48.4	48.7	48.9	49.2	49.4
100°	53.6	55.2	56.2	56.6	56.9	57.3	57.7
102.5°	56.5	58.4	59.7	60.2	60.7	61.3	61.8
105°	58.8	60.9	62.4	63.2	63.9	64.7	65.4
107.5°	67.1	64.9	64.3	65.0	65.8	66.5	67.3
110°	93.2	74.1	64.9	65.7	66.4	67.2	68.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	170.6	100.9	66.3	66.8	67.5	68.1	68.7
115°	265.4	176.8	125.6	111.9	98.1	84.4	70.6
117.5°	524.1	502.6	469.2	424.0	378.7	333.5	288.2
120°	637.9	640.2	628.4	602.6	576.7	550.9	525.1
122.5°	675.7	677.1	675.3	670.3	665.2	660.3	655.3
125°	731.4	732.7	733.7	734.2	734.8	735.5	736.0
127.5°	783.5	785.5	786.5	786.6	786.7	786.8	786.9
130°	816.3	818.4	819.4	819.3	819.0	818.8	818.6
132.5°	847.8	849.6	850.4	850.2	850.0	849.8	849.6
135°	893.2	895.1	895.9	895.5	895.1	894.8	894.4
137.5°	935.3	937.2	937.8	937.2	936.5	935.9	935.2
140°	962.4	964.1	964.5	963.6	962.6	961.7	960.6
142.5°	987.4	989.0	989.3	988.4	987.4	986.5	985.4
145°	1022.4	1023.7	1023.9	1022.9	1022.0	1021.1	1020.1
147.5°	1052.6	1053.7	1053.8	1052.9	1052.2	1051.3	1050.6
150°	1071.8	1072.9	1073.0	1072.0	1071.0	1070.1	1069.1
152.5°	1088.9	1090.1	1090.1	1088.7	1087.5	1086.3	1085.0
155°	1112.2	1113.3	1113.1	1111.6	1110.0	1108.5	1107.0
157.5°	1131.9	1133.2	1133.1	1131.6	1130.1	1128.6	1127.2
160°	1143.2	1144.3	1144.2	1142.8	1141.5	1140.2	1138.9
162.5°	1154.0	1155.3	1155.1	1153.5	1151.8	1150.2	1148.5
165°	1167.0	1168.3	1168.3	1167.0	1165.6	1164.3	1163.0
167.5°	1177.8	1179.2	1178.9	1177.2	1175.5	1173.8	1172.1
170°	1183.4	1184.7	1184.5	1182.8	1181.0	1179.3	1177.6
172.5°	1187.5	1188.8	1188.6	1186.8	1185.2	1183.5	1181.8
175°	1191.9	1193.3	1193.0	1191.1	1189.2	1187.2	1185.3
177.5°	1192.2	1193.3	1193.1	1191.8	1190.3	1188.9	1187.6
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7

(END OF REPORT)