

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

Luminaire Tested: **SA2XXRDIP-C290D925U835-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331633  
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-C290D925U835-4F0-1E-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: 4831.7 lumens  
Efficiency: N/A  
Efficacy: 129.5 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

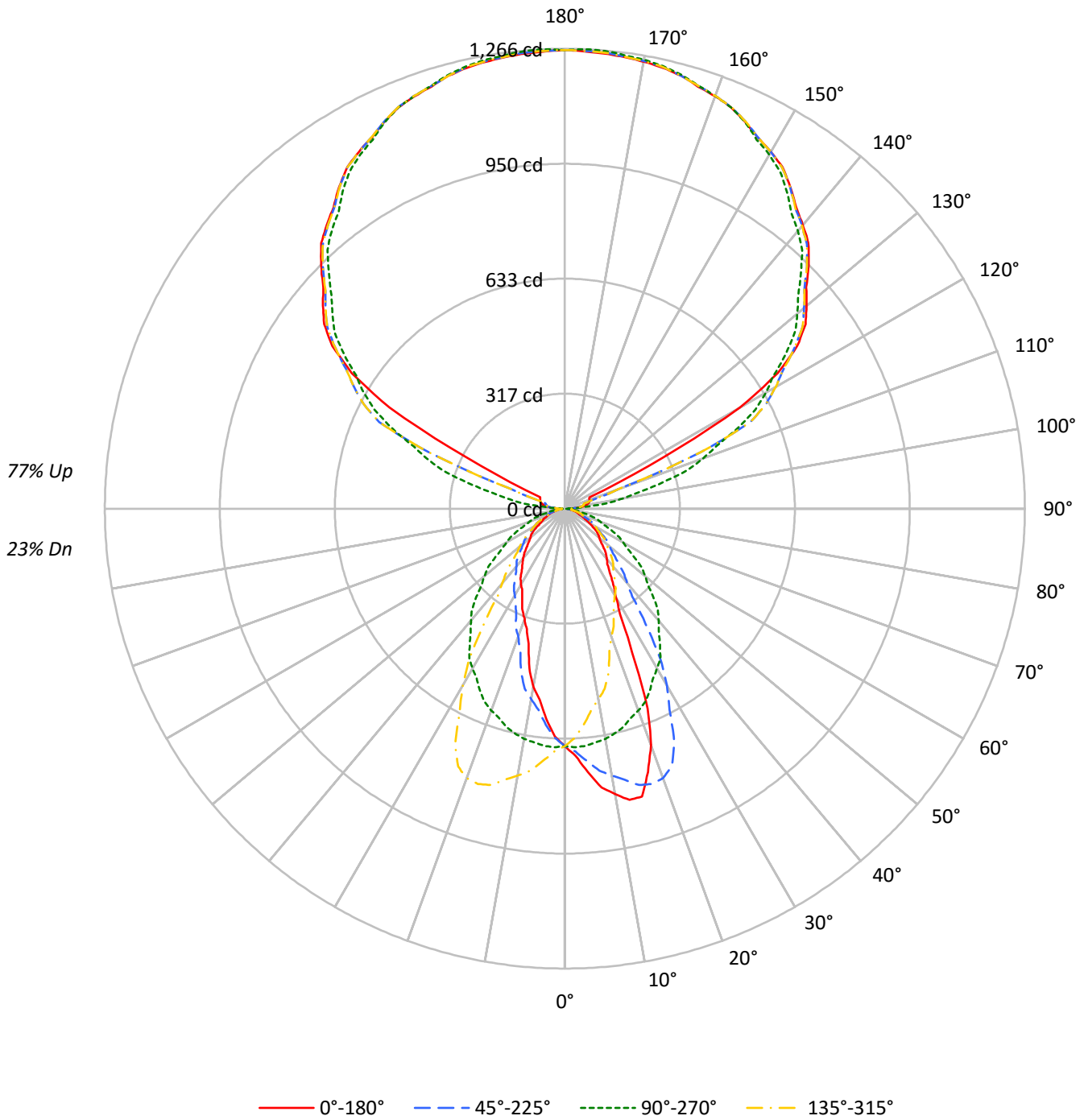
Input Watts (W): 37.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	10555	10555	10555	10555
5°	11788	10621	9418	10621
10°	13080	10547	8163	10547
15°	13722	10392	6432	10392
20°	11897	10163	5565	10163
25°	7801	9850	4969	9850
30°	5252	9469	4497	9469
35°	4254	8990	4056	8990
40°	3781	8469	3754	8469
45°	3423	7857	3350	7857
50°	3115	7252	3105	7252
55°	2928	6579	2891	6579
60°	2451	5964	2422	5964
65°	2067	5414	2342	5414
70°	1907	4834	2209	4834
75°	1784	4211	2040	4211
80°	1646	3468	1813	3468
85°	1519	2742	1593	2742



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	1.3
10°-20°	172.7	3.6
20°-30°	222.5	4.6
30°-40°	211.5	4.4
40°-50°	181.1	3.7
50°-60°	137.9	2.9
60°-70°	87.2	1.8
70°-80°	43.5	0.9
80°-90°	14.4	0.3
90°-100°	42.1	0.9
100°-110°	154.4	3.2
110°-120°	412.7	8.5
120°-130°	681.3	14.1
130°-140°	724.5	15.0
140°-150°	673.4	13.9
150°-160°	541.4	11.2
160°-170°	348.9	7.2
170°-180°	120.1	2.5
0°-30°	457.2	9.5
0°-40°	668.6	13.8
0°-60°	987.7	20.4
0°-90°	1132.9	23.4
90°-120°	609.2	12.6
90°-150°	2688.4	55.6
90°-180°	3699.0	76.6
0°-180°	4831.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	654	654	654	654	654	
5°	727	655	581	655	727	72
15°	821	622	385	622	821	221
25°	438	553	279	553	438	208
35°	216	456	206	456	216	138
45°	150	344	147	344	150	116
55°	104	234	103	234	104	91
65°	54	142	61	142	54	55
75°	29	68	33	68	29	30
85°	8	15	9	15	8	9
90°	25	1	25	1	25	11
95°	39	59	39	59	39	37
105°	69	278	69	278	69	72
115°	75	525	75	525	75	188
125°	781	742	781	742	781	676
135°	949	919	949	919	949	731
145°	1082	1066	1082	1066	1082	677
155°	1174	1174	1174	1174	1174	542
165°	1234	1237	1234	1237	1234	348
175°	1258	1265	1258	1265	1258	120
180°	1262	1262	1262	1262	1262	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	680.3	680.8	681.4	680.1	680.1	679.0	676.6	674.8	669.7	669.0	669.0
5°	727.3	726.9	727.8	724.8	720.8	719.8	715.5	709.8	703.9	697.4	696.0
7.5°	774.1	773.4	771.6	771.1	768.0	761.1	754.2	746.8	737.0	727.4	722.6
10°	797.8	805.3	800.7	792.8	794.3	783.7	778.0	768.2	760.0	745.7	742.6
12.5°	821.0	824.0	822.5	818.0	816.0	808.6	800.9	792.4	777.3	764.5	753.3
15°	820.9	825.2	826.4	825.0	826.1	825.7	821.6	814.6	801.4	787.3	775.0
17.5°	760.3	763.3	770.8	775.8	782.2	795.6	802.3	804.8	802.9	794.8	786.2
20°	692.4	687.4	708.3	718.9	728.0	750.7	770.3	777.8	789.8	789.6	787.3
22.5°	596.0	597.2	617.0	629.7	656.2	679.0	701.2	729.4	752.7	768.1	777.1
25°	437.9	446.6	466.3	483.6	513.1	555.4	593.8	638.3	680.3	713.5	745.1
27.5°	328.9	329.6	345.2	361.2	378.7	413.3	461.7	514.8	574.7	624.2	681.0
30°	281.7	280.3	286.9	296.7	311.7	338.5	374.8	427.0	486.8	561.3	627.6
32.5°	248.2	248.3	253.3	260.5	272.9	291.0	315.9	358.4	414.8	488.1	565.8
35°	215.8	215.6	219.2	224.4	229.6	241.2	258.3	280.5	319.4	387.7	467.2
37.5°	192.5	193.5	195.3	198.6	204.3	210.8	221.0	236.0	263.6	304.1	370.9
40°	179.4	179.9	182.4	185.1	188.5	193.5	201.9	214.0	234.2	266.4	315.3
42.5°	167.5	167.9	169.7	172.2	174.9	179.9	186.9	197.3	213.7	238.8	279.1
45°	149.9	149.9	151.5	152.6	155.6	160.1	165.8	174.5	185.8	204.4	231.2
47.5°	133.5	133.5	134.6	136.5	138.4	141.9	147.5	154.6	162.8	177.2	200.1
50°	124.0	124.3	124.9	126.5	127.7	130.8	135.2	141.3	149.9	161.1	180.1
52.5°	116.4	116.3	117.1	117.8	118.6	120.8	124.1	129.5	137.2	146.9	162.7
55°	104.0	103.1	104.5	105.6	106.3	107.2	109.0	112.4	119.0	127.2	139.0
57.5°	88.6	88.2	89.2	90.2	92.4	94.8	96.4	98.5	101.9	107.8	119.5
60°	75.9	75.9	77.9	78.6	81.1	84.3	87.5	89.3	92.7	96.5	105.2
62.5°	64.6	64.8	65.7	66.4	67.8	71.7	76.2	80.2	83.4	87.1	92.8
65°	54.1	54.5	54.5	55.0	55.9	56.8	58.6	61.8	67.5	72.7	77.0
67.5°	45.9	46.0	46.2	46.6	46.8	47.8	48.6	50.0	51.3	56.2	61.6
70°	40.4	41.1	40.9	41.3	41.6	42.0	42.9	43.6	45.7	46.8	50.0
72.5°	35.3	35.8	35.8	36.1	36.7	36.8	37.5	38.2	39.5	40.4	42.2
75°	28.6	28.4	28.6	29.1	29.3	29.5	29.5	30.4	31.1	32.0	33.2
77.5°	22.1	22.3	22.3	22.3	22.4	22.8	22.7	23.1	23.8	24.3	24.8
80°	17.7	17.9	17.7	17.9	18.2	18.4	18.2	18.4	19.1	19.5	19.5
82.5°	13.7	13.8	13.9	13.9	14.0	14.0	14.4	14.4	14.9	14.8	15.0
85°	8.2	8.0	8.0	8.0	8.2	8.4	8.2	8.2	8.4	8.4	8.4
87.5°	7.8	7.9	7.9	7.8	7.7	7.6	7.4	7.3	6.9	6.9	6.4
90°	24.7	24.3	23.8	23.4	23.0	22.3	21.3	20.3	19.3	18.3	16.6
92.5°	24.7	24.4	24.2	23.9	23.7	23.3	22.8	22.2	21.7	21.2	20.4
95°	39.3	39.5	39.7	39.9	40.1	39.7	38.7	37.6	36.6	35.6	34.2
97.5°	52.4	52.2	51.9	51.7	51.4	50.9	50.1	49.3	48.5	47.7	44.4
100°	61.2	60.8	60.4	60.0	59.6	58.6	56.9	55.3	53.7	52.1	48.6
102.5°	65.6	65.0	64.4	63.9	63.3	62.0	59.9	57.7	55.6	53.5	48.2
105°	69.4	68.6	67.8	67.0	66.2	64.6	62.4	60.2	57.9	55.7	48.6
107.5°	71.4	70.6	69.8	69.0	68.2	68.9	71.2	73.4	75.7	78.0	144.4
110°	72.2	71.3	70.5	69.7	68.9	78.6	98.9	119.2	139.5	159.8	218.5



TEST NUMBER: P331633

CATALOG NUMBER: SA2XXRDIP-C290D925U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	72.9	72.2	71.6	70.9	70.3	107.0	181.0	255.1	329.1	403.1	417.6
115°	74.9	89.5	104.1	118.7	133.3	187.6	281.6	375.6	469.5	563.5	558.4
117.5°	305.8	353.8	401.8	449.8	497.8	533.2	556.0	578.7	601.4	624.1	620.7
120°	557.1	584.5	611.9	639.3	666.7	679.2	676.8	674.3	671.9	669.4	665.8
122.5°	695.2	700.5	705.8	711.2	716.5	718.4	716.9	715.5	714.0	712.6	708.6
125°	780.9	780.3	779.6	779.0	778.4	777.4	776.0	774.6	773.2	771.7	767.9
127.5°	834.9	834.8	834.7	834.6	834.4	833.4	831.3	829.2	827.1	825.1	822.2
130°	868.5	868.7	868.9	869.2	869.4	868.3	866.1	863.9	861.6	859.4	857.2
132.5°	901.4	901.6	901.8	902.0	902.2	901.4	899.5	897.6	895.7	893.7	891.5
135°	948.9	949.3	949.7	950.1	950.5	949.7	947.7	945.7	943.6	941.6	939.8
137.5°	992.2	992.9	993.6	994.3	995.0	994.3	992.3	990.3	988.3	986.4	984.3
140°	1019.2	1020.3	1021.3	1022.3	1023.3	1022.9	1021.1	1019.2	1017.4	1015.6	1013.4
142.5°	1045.5	1046.6	1047.6	1048.6	1049.6	1049.3	1047.6	1045.9	1044.3	1042.6	1040.1
145°	1082.3	1083.3	1084.3	1085.3	1086.3	1086.1	1084.7	1083.3	1081.8	1080.4	1077.0
147.5°	1114.6	1115.4	1116.3	1117.1	1118.0	1117.9	1116.8	1115.8	1114.7	1113.7	1110.3
150°	1134.3	1135.3	1136.3	1137.4	1138.4	1138.3	1137.1	1135.8	1134.6	1133.4	1130.2
152.5°	1151.1	1152.5	1153.8	1155.1	1156.5	1156.5	1155.3	1154.1	1152.9	1151.7	1148.6
155°	1174.5	1176.1	1177.7	1179.4	1181.0	1181.2	1180.0	1178.8	1177.5	1176.3	1173.9
157.5°	1195.9	1197.4	1199.0	1200.6	1202.2	1202.3	1200.9	1199.5	1198.2	1196.8	1195.1
160°	1208.3	1209.7	1211.1	1212.5	1214.0	1214.1	1212.9	1211.6	1210.4	1209.2	1208.0
162.5°	1218.5	1220.3	1222.0	1223.8	1225.5	1225.7	1224.3	1222.9	1221.5	1220.2	1219.1
165°	1233.9	1235.3	1236.7	1238.1	1239.5	1239.5	1238.1	1236.7	1235.3	1233.9	1233.3
167.5°	1243.5	1245.4	1247.2	1249.0	1250.8	1251.1	1249.6	1248.2	1246.8	1245.4	1244.8
170°	1249.4	1251.2	1253.0	1254.9	1256.7	1256.9	1255.5	1254.1	1252.6	1251.2	1250.8
172.5°	1253.8	1255.6	1257.4	1259.2	1261.1	1261.3	1259.9	1258.4	1257.0	1255.6	1255.2
175°	1257.6	1259.6	1261.7	1263.7	1265.7	1266.0	1264.6	1263.2	1261.8	1260.3	1259.9
177.5°	1260.0	1261.4	1262.9	1264.4	1265.8	1266.0	1264.9	1263.7	1262.6	1261.4	1261.3
180°	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2



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CATALOG NUMBER: SA2XXRDIP-C290D925U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	669.4	667.9	666.6	663.4	661.7	658.1	657.6	657.4	652.7	648.1	646.8
5°	692.4	688.7	683.3	676.9	670.3	663.5	659.0	655.3	646.2	637.6	632.6
7.5°	715.5	707.7	698.3	686.3	676.2	665.0	656.6	649.1	636.2	623.8	615.5
10°	732.8	720.1	707.6	691.0	678.0	665.3	653.5	643.3	628.8	612.4	600.8
12.5°	743.5	729.5	712.3	696.1	679.3	663.1	647.3	634.2	617.1	600.2	586.5
15°	758.0	743.0	722.1	698.9	677.4	656.2	638.1	621.7	599.5	579.2	562.4
17.5°	769.9	749.2	726.8	700.0	675.0	648.2	624.8	603.9	579.1	554.7	534.9
20°	773.7	753.2	727.3	700.5	671.0	639.4	614.2	591.5	564.9	538.3	515.6
22.5°	771.3	755.4	726.6	694.5	664.3	631.3	602.8	576.4	546.9	519.8	493.5
25°	755.3	749.8	722.6	687.6	653.1	614.7	581.7	552.9	519.3	490.2	461.6
27.5°	717.9	729.7	712.8	675.5	637.1	596.0	558.9	526.1	491.2	458.5	430.0
30°	681.9	708.9	701.7	667.1	624.2	583.8	542.2	507.9	470.7	437.0	408.9
32.5°	632.7	677.3	684.4	655.5	611.1	566.7	523.1	489.0	450.1	414.7	387.2
35°	554.2	621.0	651.7	633.3	588.8	540.8	495.9	456.1	417.0	382.1	354.8
37.5°	460.7	551.7	602.8	604.1	563.2	513.4	464.4	424.9	384.9	350.6	321.1
40°	400.0	498.6	565.2	579.9	545.4	491.6	442.0	401.8	362.8	329.1	295.3
42.5°	345.5	443.7	525.5	551.2	523.8	470.3	420.6	378.6	340.6	308.8	274.2
45°	279.4	365.3	455.4	501.3	486.1	436.6	384.1	344.1	308.5	281.0	247.8
47.5°	235.7	296.2	383.5	445.5	445.3	400.1	348.4	310.2	277.1	251.3	224.5
50°	210.8	263.5	337.3	407.7	413.6	375.7	326.6	288.7	257.8	230.8	209.2
52.5°	188.4	231.9	298.2	365.8	382.6	349.7	302.1	267.1	237.1	212.2	193.8
55°	159.2	192.9	243.3	306.4	331.9	308.7	266.4	233.7	209.4	188.5	172.6
57.5°	134.7	159.9	200.4	251.2	280.8	266.3	231.4	204.8	184.0	165.1	152.6
60°	119.3	139.9	174.2	216.7	249.4	239.2	209.4	184.7	167.0	150.6	138.8
62.5°	104.7	122.5	151.9	186.4	216.3	212.1	187.8	167.0	151.5	136.6	126.6
65°	84.3	97.2	120.2	147.2	171.3	173.3	155.8	141.7	127.9	116.1	107.2
67.5°	67.1	75.6	91.7	114.5	132.5	139.0	128.3	117.5	106.5	97.4	89.7
70°	56.6	63.4	75.2	93.6	110.2	117.0	110.8	102.4	92.9	85.4	78.8
72.5°	45.8	52.5	61.2	74.7	88.9	96.3	94.1	88.1	80.4	74.1	67.9
75°	34.5	36.6	42.5	51.6	62.7	69.1	70.6	67.5	61.3	56.6	52.9
77.5°	25.5	26.8	29.6	34.3	41.6	47.3	49.6	49.2	45.0	42.3	38.8
80°	20.4	21.1	22.5	24.5	30.0	35.7	37.3	37.3	34.3	33.2	29.8
82.5°	15.5	16.0	16.9	18.0	20.5	25.5	27.3	27.6	25.8	24.3	21.6
85°	8.9	8.6	9.1	9.8	10.2	11.6	14.3	14.8	14.3	12.5	11.8
87.5°	6.1	5.9	5.6	5.1	4.8	4.5	5.0	5.5	5.2	5.1	5.2
90°	15.0	13.4	11.8	9.8	7.6	5.4	3.1	0.9	3.1	5.4	7.6
92.5°	19.6	18.8	17.9	17.6	17.8	18.0	18.2	18.4	18.2	18.0	17.8
95°	32.8	31.4	29.9	32.6	39.3	46.0	52.7	59.4	52.7	46.0	39.3
97.5°	41.1	37.8	34.5	42.3	61.2	80.1	98.9	117.8	98.9	80.1	61.2
100°	45.2	41.7	38.3	50.4	78.2	106.0	133.8	161.7	133.8	106.0	78.2
102.5°	111.2	140.1	169.0	186.3	192.2	198.1	204.0	209.9	204.0	198.1	192.2
105°	166.5	221.9	277.3	302.0	295.9	289.8	283.7	277.6	283.7	289.8	295.9
107.5°	210.9	277.3	343.8	374.6	369.6	364.7	359.8	354.9	359.8	364.7	369.6
110°	277.1	335.8	394.4	421.6	417.4	413.1	408.9	404.6	408.9	413.1	417.4





TEST NUMBER: P331633

CATALOG NUMBER: SA2XXRDIP-C290D925U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	432.1	446.6	461.1	466.4	462.7	458.9	455.1	451.3	455.1	458.9	462.7
115°	553.4	548.3	543.2	538.9	535.5	532.0	528.6	525.1	528.6	532.0	535.5
117.5°	617.2	613.7	610.2	606.5	602.7	598.8	594.9	591.1	594.9	598.8	602.7
120°	662.1	658.5	654.8	651.5	648.4	645.4	642.3	639.3	642.3	645.4	648.4
122.5°	704.6	700.6	696.6	693.0	689.8	686.6	683.4	680.2	683.4	686.6	689.8
125°	764.0	760.2	756.3	753.1	750.4	747.8	745.1	742.5	745.1	747.8	750.4
127.5°	819.3	816.4	813.5	810.6	807.7	804.8	801.9	798.9	801.9	804.8	807.7
130°	854.9	852.7	850.5	847.7	844.5	841.2	838.0	834.8	838.0	841.2	844.5
132.5°	889.3	887.1	884.8	882.3	879.6	876.8	874.0	871.3	874.0	876.8	879.6
135°	938.0	936.1	934.3	931.8	928.5	925.3	922.0	918.8	922.0	925.3	928.5
137.5°	982.2	980.1	978.1	975.9	973.6	971.4	969.1	966.8	969.1	971.4	973.6
140°	1011.1	1008.9	1006.7	1004.7	1003.1	1001.5	999.9	998.2	999.9	1001.5	1003.1
142.5°	1037.5	1034.9	1032.4	1030.4	1028.9	1027.5	1026.0	1024.5	1026.0	1027.5	1028.9
145°	1073.5	1070.1	1066.6	1065.0	1065.2	1065.4	1065.6	1065.8	1065.6	1065.4	1065.2
147.5°	1106.9	1103.4	1100.0	1098.7	1099.5	1100.3	1101.0	1101.8	1101.0	1100.3	1099.5
150°	1126.9	1123.7	1120.4	1119.5	1120.9	1122.3	1123.8	1125.2	1123.8	1122.3	1120.9
152.5°	1145.5	1142.4	1139.3	1138.6	1140.2	1141.7	1143.3	1144.9	1143.3	1141.7	1140.2
155°	1171.5	1169.0	1166.6	1166.3	1168.1	1169.9	1171.8	1173.6	1171.8	1169.9	1168.1
157.5°	1193.4	1191.7	1190.0	1189.9	1191.4	1193.0	1194.5	1196.0	1194.5	1193.0	1191.4
160°	1206.8	1205.5	1204.3	1204.3	1205.5	1206.8	1208.0	1209.2	1208.0	1206.8	1205.5
162.5°	1218.0	1217.0	1215.9	1216.0	1217.2	1218.5	1219.7	1220.9	1219.7	1218.5	1217.2
165°	1232.6	1232.0	1231.4	1231.7	1232.9	1234.2	1235.4	1236.6	1235.4	1234.2	1232.9
167.5°	1244.2	1243.7	1243.1	1243.4	1244.6	1245.9	1247.1	1248.3	1247.1	1245.9	1244.6
170°	1250.4	1250.0	1249.6	1250.0	1251.2	1252.4	1253.6	1254.9	1253.6	1252.4	1251.2
172.5°	1254.8	1254.4	1254.0	1254.4	1255.6	1256.8	1258.0	1259.2	1258.0	1256.8	1255.6
175°	1259.5	1259.1	1258.7	1259.2	1260.6	1262.1	1263.5	1264.9	1263.5	1262.1	1260.6
177.5°	1261.1	1261.0	1260.8	1261.3	1262.4	1263.6	1264.7	1265.8	1264.7	1263.6	1262.4
180°	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2



TEST NUMBER: P331633

CATALOG NUMBER: SA2XXRDIP-C290D925U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	644.5	643.2	640.8	637.2	635.0	631.2	628.7	630.1	630.5	630.1	629.8
5°	627.2	622.4	615.8	609.4	603.5	597.2	593.5	592.0	588.8	587.0	586.0
7.5°	606.2	598.0	588.7	577.6	568.2	558.3	553.3	550.8	544.3	540.8	537.7
10°	590.6	577.6	568.3	553.8	544.9	532.0	523.1	523.4	514.5	509.5	505.9
12.5°	573.3	559.1	543.6	530.5	518.2	507.8	497.1	492.8	483.4	478.6	468.8
15°	544.7	528.1	511.8	494.1	481.6	465.4	450.0	431.1	415.9	402.7	399.1
17.5°	513.5	492.9	476.5	455.7	434.3	407.2	389.3	378.3	369.2	362.2	357.0
20°	492.0	471.1	453.6	422.3	393.4	375.0	361.9	353.4	343.9	336.4	332.3
22.5°	469.5	447.7	423.8	388.8	366.3	351.6	339.9	330.2	323.7	317.9	314.1
25°	437.5	413.6	374.3	350.3	332.1	316.6	308.5	302.6	295.8	287.8	284.2
27.5°	403.7	365.8	337.5	319.6	302.3	292.3	284.9	276.1	270.0	266.4	262.6
30°	378.4	340.5	318.5	298.9	286.7	275.5	266.9	261.9	256.0	249.9	247.4
32.5°	350.3	320.0	298.8	282.6	270.1	260.6	253.8	245.7	241.5	237.7	232.5
35°	315.3	292.3	273.0	259.9	248.0	240.3	232.4	227.6	219.9	216.7	214.7
37.5°	285.7	265.8	251.4	237.5	228.1	219.6	214.7	207.1	203.8	199.3	195.0
40°	268.9	249.4	235.6	224.2	213.7	207.4	201.3	195.1	190.1	188.1	182.9
42.5°	251.9	236.0	222.1	209.7	202.7	195.9	188.2	183.7	178.5	175.2	172.0
45°	228.3	214.2	202.4	192.2	184.4	177.4	172.4	164.9	162.0	155.4	152.6
47.5°	207.6	194.5	183.2	173.5	166.0	161.4	154.1	148.2	143.5	139.4	135.9
50°	192.9	181.9	171.0	162.4	155.6	149.0	141.5	138.6	131.3	129.2	127.2
52.5°	179.4	169.0	159.1	150.6	143.8	137.4	130.8	126.9	122.0	120.0	118.5
55°	160.6	150.6	141.1	133.6	126.8	120.2	116.1	111.3	109.0	107.4	105.6
57.5°	141.7	132.7	125.4	117.8	110.9	105.7	101.0	98.1	95.8	93.7	91.5
60°	129.7	121.1	114.5	107.4	100.4	96.1	92.5	89.0	86.3	83.1	82.2
62.5°	117.0	109.4	103.4	96.5	90.4	86.5	83.0	79.8	76.5	71.9	70.6
65°	99.5	93.6	87.2	81.5	76.1	72.2	67.2	63.6	62.2	61.8	61.6
67.5°	83.7	78.1	72.6	66.8	61.9	58.3	55.7	55.2	54.2	54.0	53.3
70°	73.1	67.9	62.5	57.0	52.2	51.6	50.7	49.7	48.6	48.2	47.7
72.5°	63.7	58.3	52.8	48.5	46.4	45.6	44.7	43.7	43.0	42.5	42.3
75°	48.8	43.8	40.2	38.6	37.5	36.8	35.4	34.8	34.3	33.6	33.4
77.5°	35.2	32.3	30.7	29.7	28.5	27.8	27.0	26.3	25.8	25.7	25.3
80°	26.8	25.4	24.3	22.9	22.5	21.6	21.4	20.7	20.9	20.2	20.2
82.5°	20.8	19.1	18.1	17.5	17.0	16.3	16.1	15.8	15.8	15.3	15.3
85°	10.7	10.2	9.8	9.3	9.3	8.6	8.9	8.6	8.6	8.2	8.0
87.5°	5.4	5.6	5.6	5.9	6.2	6.4	6.6	6.6	6.8	7.0	7.0
90°	9.8	11.8	13.4	15.0	16.6	18.3	19.3	20.3	21.3	22.3	23.0
92.5°	17.6	17.9	18.8	19.6	20.4	21.2	21.7	22.2	22.8	23.3	23.7
95°	32.6	29.9	31.4	32.8	34.2	35.6	36.6	37.6	38.7	39.7	40.1
97.5°	42.3	34.5	37.8	41.1	44.4	47.7	48.5	49.3	50.1	50.9	51.4
100°	50.4	38.3	41.7	45.2	48.6	52.1	53.7	55.3	56.9	58.6	59.6
102.5°	186.3	169.0	140.1	111.2	82.4	53.5	55.6	57.7	59.9	62.0	63.3
105°	302.0	277.3	221.9	166.5	111.1	55.7	57.9	60.2	62.4	64.6	66.2
107.5°	374.6	343.8	277.3	210.9	144.4	78.0	75.7	73.4	71.2	68.9	68.2
110°	421.6	394.4	335.8	277.1	218.5	159.8	139.5	119.2	98.9	78.6	68.9



TEST NUMBER: P331633

CATALOG NUMBER: SA2XXRDIP-C290D925U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	466.4	461.1	446.6	432.1	417.6	403.1	329.1	255.1	181.0	107.0	70.3
115°	538.9	543.2	548.3	553.4	558.4	563.5	469.5	375.6	281.6	187.6	133.3
117.5°	606.5	610.2	613.7	617.2	620.7	624.1	601.4	578.7	556.0	533.2	497.8
120°	651.5	654.8	658.5	662.1	665.8	669.4	671.9	674.3	676.8	679.2	666.7
122.5°	693.0	696.6	700.6	704.6	708.6	712.6	714.0	715.5	716.9	718.4	716.5
125°	753.1	756.3	760.2	764.0	767.9	771.7	773.2	774.6	776.0	777.4	778.4
127.5°	810.6	813.5	816.4	819.3	822.2	825.1	827.1	829.2	831.3	833.4	834.4
130°	847.7	850.5	852.7	854.9	857.2	859.4	861.6	863.9	866.1	868.3	869.4
132.5°	882.3	884.8	887.1	889.3	891.5	893.7	895.7	897.6	899.5	901.4	902.2
135°	931.8	934.3	936.1	938.0	939.8	941.6	943.6	945.7	947.7	949.7	950.5
137.5°	975.9	978.1	980.1	982.2	984.3	986.4	988.3	990.3	992.3	994.3	995.0
140°	1004.7	1006.7	1008.9	1011.1	1013.4	1015.6	1017.4	1019.2	1021.1	1022.9	1023.3
142.5°	1030.4	1032.4	1034.9	1037.5	1040.1	1042.6	1044.3	1045.9	1047.6	1049.3	1049.6
145°	1065.0	1066.6	1070.1	1073.5	1077.0	1080.4	1081.8	1083.3	1084.7	1086.1	1086.3
147.5°	1098.7	1100.0	1103.4	1106.9	1110.3	1113.7	1114.7	1115.8	1116.8	1117.9	1118.0
150°	1119.5	1120.4	1123.7	1126.9	1130.2	1133.4	1134.6	1135.8	1137.1	1138.3	1138.4
152.5°	1138.6	1139.3	1142.4	1145.5	1148.6	1151.7	1152.9	1154.1	1155.3	1156.5	1156.5
155°	1166.3	1166.6	1169.0	1171.5	1173.9	1176.3	1177.5	1178.8	1180.0	1181.2	1181.0
157.5°	1189.9	1190.0	1191.7	1193.4	1195.1	1196.8	1198.2	1199.5	1200.9	1202.3	1202.2
160°	1204.3	1204.3	1205.5	1206.8	1208.0	1209.2	1210.4	1211.6	1212.9	1214.1	1214.0
162.5°	1216.0	1215.9	1217.0	1218.0	1219.1	1220.2	1221.5	1222.9	1224.3	1225.7	1225.5
165°	1231.7	1231.4	1232.0	1232.6	1233.3	1233.9	1235.3	1236.7	1238.1	1239.5	1239.5
167.5°	1243.4	1243.1	1243.7	1244.2	1244.8	1245.4	1246.8	1248.2	1249.6	1251.1	1250.8
170°	1250.0	1249.6	1250.0	1250.4	1250.8	1251.2	1252.6	1254.1	1255.5	1256.9	1256.7
172.5°	1254.4	1254.0	1254.4	1254.8	1255.2	1255.6	1257.0	1258.4	1259.9	1261.3	1261.1
175°	1259.2	1258.7	1259.1	1259.5	1259.9	1260.3	1261.8	1263.2	1264.6	1266.0	1265.7
177.5°	1261.3	1260.8	1261.0	1261.1	1261.3	1261.4	1262.6	1263.7	1264.9	1266.0	1265.8
180°	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2



TEST NUMBER: P331633

CATALOG NUMBER: SA2XXRDIP-C290D925U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	627.8	628.1	627.6	627.9	627.6	628.1	627.8	629.8	630.1	630.5	630.1
5°	584.9	582.2	581.7	581.1	581.7	582.2	584.9	586.0	587.0	588.8	592.0
7.5°	533.8	533.4	532.2	530.6	532.2	533.4	533.8	537.7	540.8	544.3	550.8
10°	500.9	499.7	499.5	497.9	499.5	499.7	500.9	505.9	509.5	514.5	523.4
12.5°	462.3	455.0	454.3	450.3	454.3	455.0	462.3	468.8	478.6	483.4	492.8
15°	393.7	392.3	387.7	384.8	387.7	392.3	393.7	399.1	402.7	415.9	431.1
17.5°	354.4	349.9	348.5	347.9	348.5	349.9	354.4	357.0	362.2	369.2	378.3
20°	329.1	325.1	324.4	323.9	324.4	325.1	329.1	332.3	336.4	343.9	353.4
22.5°	311.7	307.4	305.7	304.3	305.7	307.4	311.7	314.1	317.9	323.7	330.2
25°	281.9	280.3	279.4	278.9	279.4	280.3	281.9	284.2	287.8	295.8	302.6
27.5°	258.6	255.1	254.4	253.2	254.4	255.1	258.6	262.6	266.4	270.0	276.1
30°	245.3	244.2	242.6	241.2	242.6	244.2	245.3	247.4	249.9	256.0	261.9
32.5°	229.7	228.7	227.3	226.7	227.3	228.7	229.7	232.5	237.7	241.5	245.7
35°	212.4	209.2	207.8	205.8	207.8	209.2	212.4	214.7	216.7	219.9	227.6
37.5°	194.1	192.4	190.5	191.2	190.5	192.4	194.1	195.0	199.3	203.8	207.1
40°	179.9	178.8	178.3	178.1	178.3	178.8	179.9	182.9	188.1	190.1	195.1
42.5°	168.6	165.5	164.3	164.3	164.3	165.5	168.6	172.0	175.2	178.5	183.7
45°	151.5	148.6	146.5	146.7	146.5	148.6	151.5	152.6	155.4	162.0	164.9
47.5°	134.0	133.9	132.6	133.0	132.6	133.9	134.0	135.9	139.4	143.5	148.2
50°	125.6	124.3	123.3	123.6	123.3	124.3	125.6	127.2	129.2	131.3	138.6
52.5°	117.6	116.4	115.7	116.7	115.7	116.4	117.6	118.5	120.0	122.0	126.9
55°	104.5	103.1	102.9	102.7	102.9	103.1	104.5	105.6	107.4	109.0	111.3
57.5°	89.8	88.9	87.5	87.0	87.5	88.9	89.8	91.5	93.7	95.8	98.1
60°	79.3	77.5	75.2	75.0	75.2	77.5	79.3	82.2	83.1	86.3	89.0
62.5°	69.6	69.3	68.8	68.8	68.8	69.3	69.6	70.6	71.9	76.5	79.8
65°	61.1	60.9	61.1	61.3	61.1	60.9	61.1	61.6	61.8	62.2	63.6
67.5°	53.2	52.8	52.4	52.6	52.4	52.8	53.2	53.3	54.0	54.2	55.2
70°	47.2	47.0	46.8	46.8	46.8	47.0	47.2	47.7	48.2	48.6	49.7
72.5°	41.4	41.4	41.2	41.0	41.2	41.4	41.4	42.3	42.5	43.0	43.7
75°	33.2	32.7	32.7	32.7	32.7	32.7	33.2	33.4	33.6	34.3	34.8
77.5°	25.3	25.0	24.8	24.6	24.8	25.0	25.3	25.3	25.7	25.8	26.3
80°	20.0	19.8	19.5	19.5	19.5	19.8	20.0	20.2	20.2	20.9	20.7
82.5°	15.3	15.0	15.0	14.8	15.0	15.0	15.3	15.3	15.3	15.8	15.8
85°	8.2	8.4	8.2	8.6	8.2	8.4	8.2	8.0	8.2	8.6	8.6
87.5°	7.1	7.0	7.2	7.1	7.2	7.0	7.1	7.0	7.0	6.8	6.6
90°	23.4	23.8	24.3	24.7	24.3	23.8	23.4	23.0	22.3	21.3	20.3
92.5°	23.9	24.2	24.4	24.7	24.4	24.2	23.9	23.7	23.3	22.8	22.2
95°	39.9	39.7	39.5	39.3	39.5	39.7	39.9	40.1	39.7	38.7	37.6
97.5°	51.7	51.9	52.2	52.4	52.2	51.9	51.7	51.4	50.9	50.1	49.3
100°	60.0	60.4	60.8	61.2	60.8	60.4	60.0	59.6	58.6	56.9	55.3
102.5°	63.9	64.4	65.0	65.6	65.0	64.4	63.9	63.3	62.0	59.9	57.7
105°	67.0	67.8	68.6	69.4	68.6	67.8	67.0	66.2	64.6	62.4	60.2
107.5°	69.0	69.8	70.6	71.4	70.6	69.8	69.0	68.2	68.9	71.2	73.4
110°	69.7	70.5	71.3	72.2	71.3	70.5	69.7	68.9	78.6	98.9	119.2



TEST NUMBER: P331633

CATALOG NUMBER: SA2XXRDIP-C290D925U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	70.9	71.6	72.2	72.9	72.2	71.6	70.9	70.3	107.0	181.0	255.1
115°	118.7	104.1	89.5	74.9	89.5	104.1	118.7	133.3	187.6	281.6	375.6
117.5°	449.8	401.8	353.8	305.8	353.8	401.8	449.8	497.8	533.2	556.0	578.7
120°	639.3	611.9	584.5	557.1	584.5	611.9	639.3	666.7	679.2	676.8	674.3
122.5°	711.2	705.8	700.5	695.2	700.5	705.8	711.2	716.5	718.4	716.9	715.5
125°	779.0	779.6	780.3	780.9	780.3	779.6	779.0	778.4	777.4	776.0	774.6
127.5°	834.6	834.7	834.8	834.9	834.8	834.7	834.6	834.4	833.4	831.3	829.2
130°	869.2	868.9	868.7	868.5	868.7	868.9	869.2	869.4	868.3	866.1	863.9
132.5°	902.0	901.8	901.6	901.4	901.6	901.8	902.0	902.2	901.4	899.5	897.6
135°	950.1	949.7	949.3	948.9	949.3	949.7	950.1	950.5	949.7	947.7	945.7
137.5°	994.3	993.6	992.9	992.2	992.9	993.6	994.3	995.0	994.3	992.3	990.3
140°	1022.3	1021.3	1020.3	1019.2	1020.3	1021.3	1022.3	1023.3	1022.9	1021.1	1019.2
142.5°	1048.6	1047.6	1046.6	1045.5	1046.6	1047.6	1048.6	1049.6	1049.3	1047.6	1045.9
145°	1085.3	1084.3	1083.3	1082.3	1083.3	1084.3	1085.3	1086.3	1086.1	1084.7	1083.3
147.5°	1117.1	1116.3	1115.4	1114.6	1115.4	1116.3	1117.1	1118.0	1117.9	1116.8	1115.8
150°	1137.4	1136.3	1135.3	1134.3	1135.3	1136.3	1137.4	1138.4	1138.3	1137.1	1135.8
152.5°	1155.1	1153.8	1152.5	1151.1	1152.5	1153.8	1155.1	1156.5	1156.5	1155.3	1154.1
155°	1179.4	1177.7	1176.1	1174.5	1176.1	1177.7	1179.4	1181.0	1181.2	1180.0	1178.8
157.5°	1200.6	1199.0	1197.4	1195.9	1197.4	1199.0	1200.6	1202.2	1202.3	1200.9	1199.5
160°	1212.5	1211.1	1209.7	1208.3	1209.7	1211.1	1212.5	1214.0	1214.1	1212.9	1211.6
162.5°	1223.8	1222.0	1220.3	1218.5	1220.3	1222.0	1223.8	1225.5	1225.7	1224.3	1222.9
165°	1238.1	1236.7	1235.3	1233.9	1235.3	1236.7	1238.1	1239.5	1239.5	1238.1	1236.7
167.5°	1249.0	1247.2	1245.4	1243.5	1245.4	1247.2	1249.0	1250.8	1251.1	1249.6	1248.2
170°	1254.9	1253.0	1251.2	1249.4	1251.2	1253.0	1254.9	1256.7	1256.9	1255.5	1254.1
172.5°	1259.2	1257.4	1255.6	1253.8	1255.6	1257.4	1259.2	1261.1	1261.3	1259.9	1258.4
175°	1263.7	1261.7	1259.6	1257.6	1259.6	1261.7	1263.7	1265.7	1266.0	1264.6	1263.2
177.5°	1264.4	1262.9	1261.4	1260.0	1261.4	1262.9	1264.4	1265.8	1266.0	1264.9	1263.7
180°	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2



TEST NUMBER: P331633

CATALOG NUMBER: SA2XXRDIP-C290D925U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	628.7	631.2	635.0	637.2	640.8	643.2	644.5	646.8	648.1	652.7	657.4
5°	593.5	597.2	603.5	609.4	615.8	622.4	627.2	632.6	637.6	646.2	655.3
7.5°	553.3	558.3	568.2	577.6	588.7	598.0	606.2	615.5	623.8	636.2	649.1
10°	523.1	532.0	544.9	553.8	568.3	577.6	590.6	600.8	612.4	628.8	643.3
12.5°	497.1	507.8	518.2	530.5	543.6	559.1	573.3	586.5	600.2	617.1	634.2
15°	450.0	465.4	481.6	494.1	511.8	528.1	544.7	562.4	579.2	599.5	621.7
17.5°	389.3	407.2	434.3	455.7	476.5	492.9	513.5	534.9	554.7	579.1	603.9
20°	361.9	375.0	393.4	422.3	453.6	471.1	492.0	515.6	538.3	564.9	591.5
22.5°	339.9	351.6	366.3	388.8	423.8	447.7	469.5	493.5	519.8	546.9	576.4
25°	308.5	316.6	332.1	350.3	374.3	413.6	437.5	461.6	490.2	519.3	552.9
27.5°	284.9	292.3	302.3	319.6	337.5	365.8	403.7	430.0	458.5	491.2	526.1
30°	266.9	275.5	286.7	298.9	318.5	340.5	378.4	408.9	437.0	470.7	507.9
32.5°	253.8	260.6	270.1	282.6	298.8	320.0	350.3	387.2	414.7	450.1	489.0
35°	232.4	240.3	248.0	259.9	273.0	292.3	315.3	354.8	382.1	417.0	456.1
37.5°	214.7	219.6	228.1	237.5	251.4	265.8	285.7	321.1	350.6	384.9	424.9
40°	201.3	207.4	213.7	224.2	235.6	249.4	268.9	295.3	329.1	362.8	401.8
42.5°	188.2	195.9	202.7	209.7	222.1	236.0	251.9	274.2	308.8	340.6	378.6
45°	172.4	177.4	184.4	192.2	202.4	214.2	228.3	247.8	281.0	308.5	344.1
47.5°	154.1	161.4	166.0	173.5	183.2	194.5	207.6	224.5	251.3	277.1	310.2
50°	141.5	149.0	155.6	162.4	171.0	181.9	192.9	209.2	230.8	257.8	288.7
52.5°	130.8	137.4	143.8	150.6	159.1	169.0	179.4	193.8	212.2	237.1	267.1
55°	116.1	120.2	126.8	133.6	141.1	150.6	160.6	172.6	188.5	209.4	233.7
57.5°	101.0	105.7	110.9	117.8	125.4	132.7	141.7	152.6	165.1	184.0	204.8
60°	92.5	96.1	100.4	107.4	114.5	121.1	129.7	138.8	150.6	167.0	184.7
62.5°	83.0	86.5	90.4	96.5	103.4	109.4	117.0	126.6	136.6	151.5	167.0
65°	67.2	72.2	76.1	81.5	87.2	93.6	99.5	107.2	116.1	127.9	141.7
67.5°	55.7	58.3	61.9	66.8	72.6	78.1	83.7	89.7	97.4	106.5	117.5
70°	50.7	51.6	52.2	57.0	62.5	67.9	73.1	78.8	85.4	92.9	102.4
72.5°	44.7	45.6	46.4	48.5	52.8	58.3	63.7	67.9	74.1	80.4	88.1
75°	35.4	36.8	37.5	38.6	40.2	43.8	48.8	52.9	56.6	61.3	67.5
77.5°	27.0	27.8	28.5	29.7	30.7	32.3	35.2	38.8	42.3	45.0	49.2
80°	21.4	21.6	22.5	22.9	24.3	25.4	26.8	29.8	33.2	34.3	37.3
82.5°	16.1	16.3	17.0	17.5	18.1	19.1	20.8	21.6	24.3	25.8	27.6
85°	8.9	8.6	9.3	9.3	9.8	10.2	10.7	11.8	12.5	14.3	14.8
87.5°	6.6	6.4	6.2	5.9	5.6	5.6	5.4	5.2	5.1	5.2	5.5
90°	19.3	18.3	16.6	15.0	13.4	11.8	9.8	7.6	5.4	3.1	0.9
92.5°	21.7	21.2	20.4	19.6	18.8	17.9	17.6	17.8	18.0	18.2	18.4
95°	36.6	35.6	34.2	32.8	31.4	29.9	32.6	39.3	46.0	52.7	59.4
97.5°	48.5	47.7	44.4	41.1	37.8	34.5	42.3	61.2	80.1	98.9	117.8
100°	53.7	52.1	48.6	45.2	41.7	38.3	50.4	78.2	106.0	133.8	161.7
102.5°	55.6	53.5	82.4	111.2	140.1	169.0	186.3	192.2	198.1	204.0	209.9
105°	57.9	55.7	111.1	166.5	221.9	277.3	302.0	295.9	289.8	283.7	277.6
107.5°	75.7	78.0	144.4	210.9	277.3	343.8	374.6	369.6	364.7	359.8	354.9
110°	139.5	159.8	218.5	277.1	335.8	394.4	421.6	417.4	413.1	408.9	404.6



TEST NUMBER: P331633

CATALOG NUMBER: SA2XXRDIP-C290D925U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	329.1	403.1	417.6	432.1	446.6	461.1	466.4	462.7	458.9	455.1	451.3
115°	469.5	563.5	558.4	553.4	548.3	543.2	538.9	535.5	532.0	528.6	525.1
117.5°	601.4	624.1	620.7	617.2	613.7	610.2	606.5	602.7	598.8	594.9	591.1
120°	671.9	669.4	665.8	662.1	658.5	654.8	651.5	648.4	645.4	642.3	639.3
122.5°	714.0	712.6	708.6	704.6	700.6	696.6	693.0	689.8	686.6	683.4	680.2
125°	773.2	771.7	767.9	764.0	760.2	756.3	753.1	750.4	747.8	745.1	742.5
127.5°	827.1	825.1	822.2	819.3	816.4	813.5	810.6	807.7	804.8	801.9	798.9
130°	861.6	859.4	857.2	854.9	852.7	850.5	847.7	844.5	841.2	838.0	834.8
132.5°	895.7	893.7	891.5	889.3	887.1	884.8	882.3	879.6	876.8	874.0	871.3
135°	943.6	941.6	939.8	938.0	936.1	934.3	931.8	928.5	925.3	922.0	918.8
137.5°	988.3	986.4	984.3	982.2	980.1	978.1	975.9	973.6	971.4	969.1	966.8
140°	1017.4	1015.6	1013.4	1011.1	1008.9	1006.7	1004.7	1003.1	1001.5	999.9	998.2
142.5°	1044.3	1042.6	1040.1	1037.5	1034.9	1032.4	1030.4	1028.9	1027.5	1026.0	1024.5
145°	1081.8	1080.4	1077.0	1073.5	1070.1	1066.6	1065.0	1065.2	1065.4	1065.6	1065.8
147.5°	1114.7	1113.7	1110.3	1106.9	1103.4	1100.0	1098.7	1099.5	1100.3	1101.0	1101.8
150°	1134.6	1133.4	1130.2	1126.9	1123.7	1120.4	1119.5	1120.9	1122.3	1123.8	1125.2
152.5°	1152.9	1151.7	1148.6	1145.5	1142.4	1139.3	1138.6	1140.2	1141.7	1143.3	1144.9
155°	1177.5	1176.3	1173.9	1171.5	1169.0	1166.6	1166.3	1168.1	1169.9	1171.8	1173.6
157.5°	1198.2	1196.8	1195.1	1193.4	1191.7	1190.0	1189.9	1191.4	1193.0	1194.5	1196.0
160°	1210.4	1209.2	1208.0	1206.8	1205.5	1204.3	1204.3	1205.5	1206.8	1208.0	1209.2
162.5°	1221.5	1220.2	1219.1	1218.0	1217.0	1215.9	1216.0	1217.2	1218.5	1219.7	1220.9
165°	1235.3	1233.9	1233.3	1232.6	1232.0	1231.4	1231.7	1232.9	1234.2	1235.4	1236.6
167.5°	1246.8	1245.4	1244.8	1244.2	1243.7	1243.1	1243.4	1244.6	1245.9	1247.1	1248.3
170°	1252.6	1251.2	1250.8	1250.4	1250.0	1249.6	1250.0	1251.2	1252.4	1253.6	1254.9
172.5°	1257.0	1255.6	1255.2	1254.8	1254.4	1254.0	1254.4	1255.6	1256.8	1258.0	1259.2
175°	1261.8	1260.3	1259.9	1259.5	1259.1	1258.7	1259.2	1260.6	1262.1	1263.5	1264.9
177.5°	1262.6	1261.4	1261.3	1261.1	1261.0	1260.8	1261.3	1262.4	1263.6	1264.7	1265.8
180°	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2



TEST NUMBER: P331633

CATALOG NUMBER: SA2XXRDIP-C290D925U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	657.6	658.1	661.7	663.4	666.6	667.9	669.4	669.0	669.0	669.7	674.8
5°	659.0	663.5	670.3	676.9	683.3	688.7	692.4	696.0	697.4	703.9	709.8
7.5°	656.6	665.0	676.2	686.3	698.3	707.7	715.5	722.6	727.4	737.0	746.8
10°	653.5	665.3	678.0	691.0	707.6	720.1	732.8	742.6	745.7	760.0	768.2
12.5°	647.3	663.1	679.3	696.1	712.3	729.5	743.5	753.3	764.5	777.3	792.4
15°	638.1	656.2	677.4	698.9	722.1	743.0	758.0	775.0	787.3	801.4	814.6
17.5°	624.8	648.2	675.0	700.0	726.8	749.2	769.9	786.2	794.8	802.9	804.8
20°	614.2	639.4	671.0	700.5	727.3	753.2	773.7	787.3	789.6	789.8	777.8
22.5°	602.8	631.3	664.3	694.5	726.6	755.4	771.3	777.1	768.1	752.7	729.4
25°	581.7	614.7	653.1	687.6	722.6	749.8	755.3	745.1	713.5	680.3	638.3
27.5°	558.9	596.0	637.1	675.5	712.8	729.7	717.9	681.0	624.2	574.7	514.8
30°	542.2	583.8	624.2	667.1	701.7	708.9	681.9	627.6	561.3	486.8	427.0
32.5°	523.1	566.7	611.1	655.5	684.4	677.3	632.7	565.8	488.1	414.8	358.4
35°	495.9	540.8	588.8	633.3	651.7	621.0	554.2	467.2	387.7	319.4	280.5
37.5°	464.4	513.4	563.2	604.1	602.8	551.7	460.7	370.9	304.1	263.6	236.0
40°	442.0	491.6	545.4	579.9	565.2	498.6	400.0	315.3	266.4	234.2	214.0
42.5°	420.6	470.3	523.8	551.2	525.5	443.7	345.5	279.1	238.8	213.7	197.3
45°	384.1	436.6	486.1	501.3	455.4	365.3	279.4	231.2	204.4	185.8	174.5
47.5°	348.4	400.1	445.3	445.5	383.5	296.2	235.7	200.1	177.2	162.8	154.6
50°	326.6	375.7	413.6	407.7	337.3	263.5	210.8	180.1	161.1	149.9	141.3
52.5°	302.1	349.7	382.6	365.8	298.2	231.9	188.4	162.7	146.9	137.2	129.5
55°	266.4	308.7	331.9	306.4	243.3	192.9	159.2	139.0	127.2	119.0	112.4
57.5°	231.4	266.3	280.8	251.2	200.4	159.9	134.7	119.5	107.8	101.9	98.5
60°	209.4	239.2	249.4	216.7	174.2	139.9	119.3	105.2	96.5	92.7	89.3
62.5°	187.8	212.1	216.3	186.4	151.9	122.5	104.7	92.8	87.1	83.4	80.2
65°	155.8	173.3	171.3	147.2	120.2	97.2	84.3	77.0	72.7	67.5	61.8
67.5°	128.3	139.0	132.5	114.5	91.7	75.6	67.1	61.6	56.2	51.3	50.0
70°	110.8	117.0	110.2	93.6	75.2	63.4	56.6	50.0	46.8	45.7	43.6
72.5°	94.1	96.3	88.9	74.7	61.2	52.5	45.8	42.2	40.4	39.5	38.2
75°	70.6	69.1	62.7	51.6	42.5	36.6	34.5	33.2	32.0	31.1	30.4
77.5°	49.6	47.3	41.6	34.3	29.6	26.8	25.5	24.8	24.3	23.8	23.1
80°	37.3	35.7	30.0	24.5	22.5	21.1	20.4	19.5	19.5	19.1	18.4
82.5°	27.3	25.5	20.5	18.0	16.9	16.0	15.5	15.0	14.8	14.9	14.4
85°	14.3	11.6	10.2	9.8	9.1	8.6	8.9	8.4	8.4	8.4	8.2
87.5°	5.0	4.5	4.8	5.1	5.6	5.9	6.1	6.4	6.9	6.9	7.3
90°	3.1	5.4	7.6	9.8	11.8	13.4	15.0	16.6	18.3	19.3	20.3
92.5°	18.2	18.0	17.8	17.6	17.9	18.8	19.6	20.4	21.2	21.7	22.2
95°	52.7	46.0	39.3	32.6	29.9	31.4	32.8	34.2	35.6	36.6	37.6
97.5°	98.9	80.1	61.2	42.3	34.5	37.8	41.1	44.4	47.7	48.5	49.3
100°	133.8	106.0	78.2	50.4	38.3	41.7	45.2	48.6	52.1	53.7	55.3
102.5°	204.0	198.1	192.2	186.3	169.0	140.1	111.2	82.4	53.5	55.6	57.7
105°	283.7	289.8	295.9	302.0	277.3	221.9	166.5	111.1	55.7	57.9	60.2
107.5°	359.8	364.7	369.6	374.6	343.8	277.3	210.9	144.4	78.0	75.7	73.4
110°	408.9	413.1	417.4	421.6	394.4	335.8	277.1	218.5	159.8	139.5	119.2





TEST NUMBER: P331633

CATALOG NUMBER: SA2XXRDIP-C290D925U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	455.1	458.9	462.7	466.4	461.1	446.6	432.1	417.6	403.1	329.1	255.1
115°	528.6	532.0	535.5	538.9	543.2	548.3	553.4	558.4	563.5	469.5	375.6
117.5°	594.9	598.8	602.7	606.5	610.2	613.7	617.2	620.7	624.1	601.4	578.7
120°	642.3	645.4	648.4	651.5	654.8	658.5	662.1	665.8	669.4	671.9	674.3
122.5°	683.4	686.6	689.8	693.0	696.6	700.6	704.6	708.6	712.6	714.0	715.5
125°	745.1	747.8	750.4	753.1	756.3	760.2	764.0	767.9	771.7	773.2	774.6
127.5°	801.9	804.8	807.7	810.6	813.5	816.4	819.3	822.2	825.1	827.1	829.2
130°	838.0	841.2	844.5	847.7	850.5	852.7	854.9	857.2	859.4	861.6	863.9
132.5°	874.0	876.8	879.6	882.3	884.8	887.1	889.3	891.5	893.7	895.7	897.6
135°	922.0	925.3	928.5	931.8	934.3	936.1	938.0	939.8	941.6	943.6	945.7
137.5°	969.1	971.4	973.6	975.9	978.1	980.1	982.2	984.3	986.4	988.3	990.3
140°	999.9	1001.5	1003.1	1004.7	1006.7	1008.9	1011.1	1013.4	1015.6	1017.4	1019.2
142.5°	1026.0	1027.5	1028.9	1030.4	1032.4	1034.9	1037.5	1040.1	1042.6	1044.3	1045.9
145°	1065.6	1065.4	1065.2	1065.0	1066.6	1070.1	1073.5	1077.0	1080.4	1081.8	1083.3
147.5°	1101.0	1100.3	1099.5	1098.7	1100.0	1103.4	1106.9	1110.3	1113.7	1114.7	1115.8
150°	1123.8	1122.3	1120.9	1119.5	1120.4	1123.7	1126.9	1130.2	1133.4	1134.6	1135.8
152.5°	1143.3	1141.7	1140.2	1138.6	1139.3	1142.4	1145.5	1148.6	1151.7	1152.9	1154.1
155°	1171.8	1169.9	1168.1	1166.3	1166.6	1169.0	1171.5	1173.9	1176.3	1177.5	1178.8
157.5°	1194.5	1193.0	1191.4	1189.9	1190.0	1191.7	1193.4	1195.1	1196.8	1198.2	1199.5
160°	1208.0	1206.8	1205.5	1204.3	1204.3	1205.5	1206.8	1208.0	1209.2	1210.4	1211.6
162.5°	1219.7	1218.5	1217.2	1216.0	1215.9	1217.0	1218.0	1219.1	1220.2	1221.5	1222.9
165°	1235.4	1234.2	1232.9	1231.7	1231.4	1232.0	1232.6	1233.3	1233.9	1235.3	1236.7
167.5°	1247.1	1245.9	1244.6	1243.4	1243.1	1243.7	1244.2	1244.8	1245.4	1246.8	1248.2
170°	1253.6	1252.4	1251.2	1250.0	1249.6	1250.0	1250.4	1250.8	1251.2	1252.6	1254.1
172.5°	1258.0	1256.8	1255.6	1254.4	1254.0	1254.4	1254.8	1255.2	1255.6	1257.0	1258.4
175°	1263.5	1262.1	1260.6	1259.2	1258.7	1259.1	1259.5	1259.9	1260.3	1261.8	1263.2
177.5°	1264.7	1263.6	1262.4	1261.3	1260.8	1261.0	1261.1	1261.3	1261.4	1262.6	1263.7
180°	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2



TEST NUMBER: P331633

CATALOG NUMBER: SA2XXRDIP-C290D925U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	676.6	679.0	680.1	680.1	681.4	680.8	680.3
5°	715.5	719.8	720.8	724.8	727.8	726.9	727.3
7.5°	754.2	761.1	768.0	771.1	771.6	773.4	774.1
10°	778.0	783.7	794.3	792.8	800.7	805.3	797.8
12.5°	800.9	808.6	816.0	818.0	822.5	824.0	821.0
15°	821.6	825.7	826.1	825.0	826.4	825.2	820.9
17.5°	802.3	795.6	782.2	775.8	770.8	763.3	760.3
20°	770.3	750.7	728.0	718.9	708.3	687.4	692.4
22.5°	701.2	679.0	656.2	629.7	617.0	597.2	596.0
25°	593.8	555.4	513.1	483.6	466.3	446.6	437.9
27.5°	461.7	413.3	378.7	361.2	345.2	329.6	328.9
30°	374.8	338.5	311.7	296.7	286.9	280.3	281.7
32.5°	315.9	291.0	272.9	260.5	253.3	248.3	248.2
35°	258.3	241.2	229.6	224.4	219.2	215.6	215.8
37.5°	221.0	210.8	204.3	198.6	195.3	193.5	192.5
40°	201.9	193.5	188.5	185.1	182.4	179.9	179.4
42.5°	186.9	179.9	174.9	172.2	169.7	167.9	167.5
45°	165.8	160.1	155.6	152.6	151.5	149.9	149.9
47.5°	147.5	141.9	138.4	136.5	134.6	133.5	133.5
50°	135.2	130.8	127.7	126.5	124.9	124.3	124.0
52.5°	124.1	120.8	118.6	117.8	117.1	116.3	116.4
55°	109.0	107.2	106.3	105.6	104.5	103.1	104.0
57.5°	96.4	94.8	92.4	90.2	89.2	88.2	88.6
60°	87.5	84.3	81.1	78.6	77.9	75.9	75.9
62.5°	76.2	71.7	67.8	66.4	65.7	64.8	64.6
65°	58.6	56.8	55.9	55.0	54.5	54.5	54.1
67.5°	48.6	47.8	46.8	46.6	46.2	46.0	45.9
70°	42.9	42.0	41.6	41.3	40.9	41.1	40.4
72.5°	37.5	36.8	36.7	36.1	35.8	35.8	35.3
75°	29.5	29.5	29.3	29.1	28.6	28.4	28.6
77.5°	22.7	22.8	22.4	22.3	22.3	22.3	22.1
80°	18.2	18.4	18.2	17.9	17.7	17.9	17.7
82.5°	14.4	14.0	14.0	13.9	13.9	13.8	13.7
85°	8.2	8.4	8.2	8.0	8.0	8.0	8.2
87.5°	7.4	7.6	7.7	7.8	7.9	7.9	7.8
90°	21.3	22.3	23.0	23.4	23.8	24.3	24.7
92.5°	22.8	23.3	23.7	23.9	24.2	24.4	24.7
95°	38.7	39.7	40.1	39.9	39.7	39.5	39.3
97.5°	50.1	50.9	51.4	51.7	51.9	52.2	52.4
100°	56.9	58.6	59.6	60.0	60.4	60.8	61.2
102.5°	59.9	62.0	63.3	63.9	64.4	65.0	65.6
105°	62.4	64.6	66.2	67.0	67.8	68.6	69.4
107.5°	71.2	68.9	68.2	69.0	69.8	70.6	71.4
110°	98.9	78.6	68.9	69.7	70.5	71.3	72.2



TEST NUMBER: P331633

CATALOG NUMBER: SA2XXRDIP-C290D925U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	181.0	107.0	70.3	70.9	71.6	72.2	72.9
115°	281.6	187.6	133.3	118.7	104.1	89.5	74.9
117.5°	556.0	533.2	497.8	449.8	401.8	353.8	305.8
120°	676.8	679.2	666.7	639.3	611.9	584.5	557.1
122.5°	716.9	718.4	716.5	711.2	705.8	700.5	695.2
125°	776.0	777.4	778.4	779.0	779.6	780.3	780.9
127.5°	831.3	833.4	834.4	834.6	834.7	834.8	834.9
130°	866.1	868.3	869.4	869.2	868.9	868.7	868.5
132.5°	899.5	901.4	902.2	902.0	901.8	901.6	901.4
135°	947.7	949.7	950.5	950.1	949.7	949.3	948.9
137.5°	992.3	994.3	995.0	994.3	993.6	992.9	992.2
140°	1021.1	1022.9	1023.3	1022.3	1021.3	1020.3	1019.2
142.5°	1047.6	1049.3	1049.6	1048.6	1047.6	1046.6	1045.5
145°	1084.7	1086.1	1086.3	1085.3	1084.3	1083.3	1082.3
147.5°	1116.8	1117.9	1118.0	1117.1	1116.3	1115.4	1114.6
150°	1137.1	1138.3	1138.4	1137.4	1136.3	1135.3	1134.3
152.5°	1155.3	1156.5	1156.5	1155.1	1153.8	1152.5	1151.1
155°	1180.0	1181.2	1181.0	1179.4	1177.7	1176.1	1174.5
157.5°	1200.9	1202.3	1202.2	1200.6	1199.0	1197.4	1195.9
160°	1212.9	1214.1	1214.0	1212.5	1211.1	1209.7	1208.3
162.5°	1224.3	1225.7	1225.5	1223.8	1222.0	1220.3	1218.5
165°	1238.1	1239.5	1239.5	1238.1	1236.7	1235.3	1233.9
167.5°	1249.6	1251.1	1250.8	1249.0	1247.2	1245.4	1243.5
170°	1255.5	1256.9	1256.7	1254.9	1253.0	1251.2	1249.4
172.5°	1259.9	1261.3	1261.1	1259.2	1257.4	1255.6	1253.8
175°	1264.6	1266.0	1265.7	1263.7	1261.7	1259.6	1257.6
177.5°	1264.9	1266.0	1265.8	1264.4	1262.9	1261.4	1260.0
180°	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2

(END OF REPORT)