

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: P331653

Luminaire Tested: **SA2XXRDIP-C485D530U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331653
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C485D530U835-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

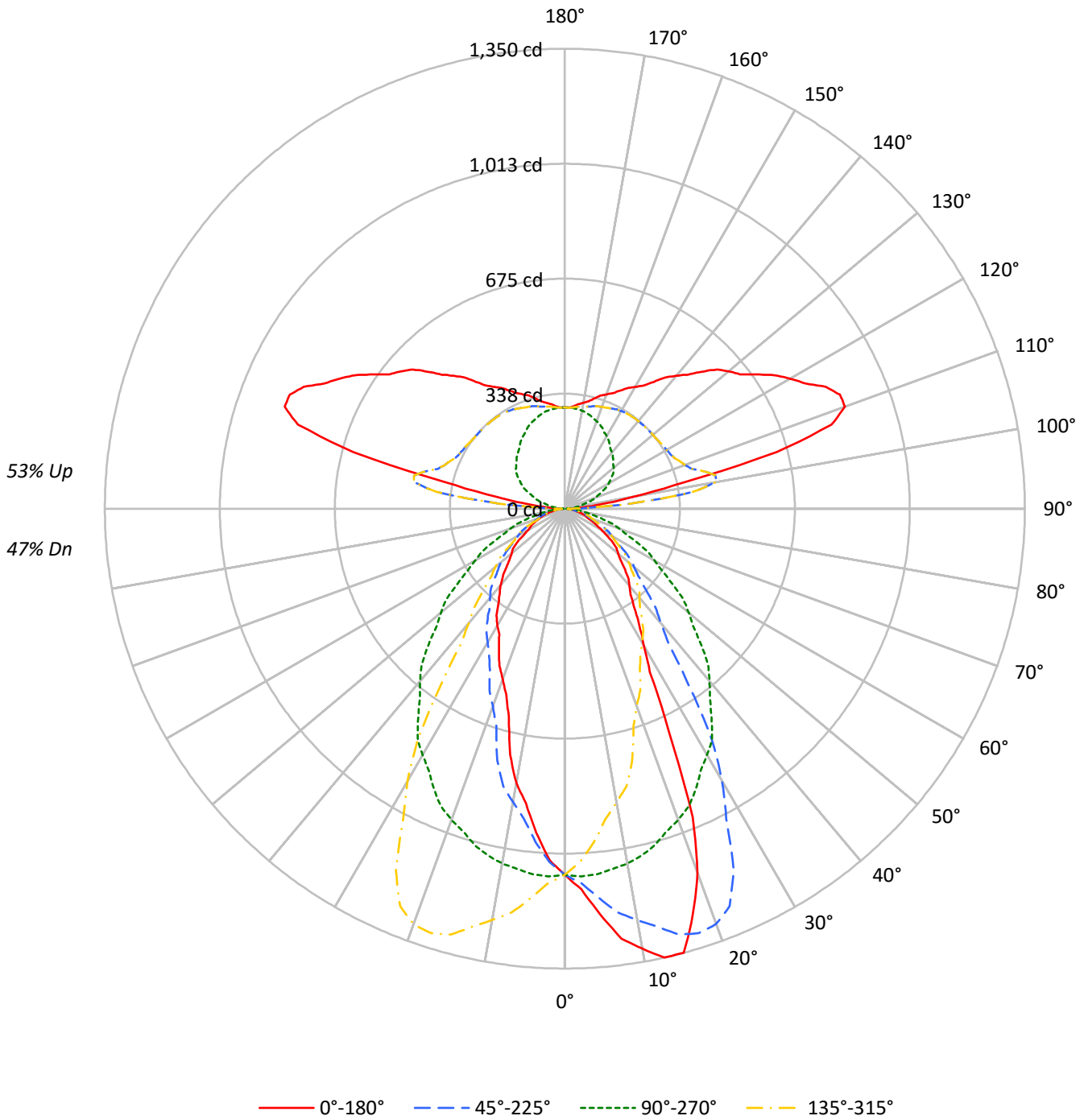
Lumens per Lamp: N/A
Luminaire Lumens: 3923.7 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 32.8
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47
1	98	94	90	87	90	87	83	81	73	71	69	60	59	57	49	48	47	41
2	90	83	77	72	82	77	72	67	65	61	58	54	51	49	44	42	41	36
3	82	74	67	61	76	68	62	57	58	53	50	48	45	43	39	37	35	31
4	76	66	58	53	70	61	54	49	52	47	43	44	40	37	36	33	31	28
5	70	59	51	46	64	55	48	43	47	42	38	40	36	33	33	30	28	25
6	65	53	46	40	60	50	43	38	43	37	33	36	32	29	30	27	25	22
7	60	48	41	35	55	45	38	34	39	34	30	33	29	26	28	25	23	20
8	56	44	37	32	52	41	35	30	36	31	27	31	27	24	26	23	21	18
9	52	41	33	29	48	38	32	27	33	28	24	28	24	22	24	21	19	17
10	49	37	30	26	45	35	29	25	31	26	22	26	22	20	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17354	17354	17354	17354
5°	19379	17462	15483	17462
10°	21502	17339	13421	17339
15°	22559	17085	10574	17085
20°	19557	16708	9149	16708
25°	12827	16192	8170	16192
30°	8634	15567	7394	15567
35°	6993	14781	6668	14781
40°	6218	13923	6171	13923
45°	5628	12919	5507	12919
50°	5122	11921	5102	11921
55°	4814	10818	4752	10818
60°	4027	9804	3978	9804
65°	3396	8902	3851	8902
70°	3139	7950	3630	7950
75°	2938	6918	3356	6918
80°	2706	5690	2985	5690
85°	2482	4502	2631	4502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	2.6
10°-20°	283.9	7.2
20°-30°	365.8	9.3
30°-40°	347.6	8.9
40°-50°	297.8	7.6
50°-60°	226.8	5.8
60°-70°	143.4	3.7
70°-80°	71.6	1.8
80°-90°	21.3	0.5
90°-100°	118.6	3.0
100°-110°	402.4	10.3
110°-120°	427.5	10.9
120°-130°	351.9	9.0
130°-140°	282.6	7.2
140°-150°	213.5	5.4
150°-160°	150.1	3.8
160°-170°	88.3	2.3
170°-180°	28.8	0.7
0°-30°	751.6	19.2
0°-40°	1099.2	28.0
0°-60°	1623.8	41.4
0°-90°	1860.1	47.4
90°-120°	948.4	24.2
90°-150°	1796.4	45.8
90°-180°	2064.0	52.6
0°-180°	3923.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1075	1075	1075	1075	1075	
5°	1196	1077	955	1077	1196	118
15°	1350	1022	633	1022	1350	364
25°	720	909	459	909	720	342
35°	355	750	338	750	355	227
45°	246	566	241	566	246	191
55°	171	384	169	384	171	150
65°	89	233	101	233	89	90
75°	47	111	54	111	47	50
85°	13	24	14	24	13	15
90°	19	1	19	1	19	11
95°	65	20	65	20	65	85
105°	643	70	643	70	643	622
115°	846	123	846	123	846	828
125°	686	171	686	171	686	620
135°	569	201	569	201	569	442
145°	454	229	454	229	454	288
155°	382	261	382	261	382	178
165°	335	284	335	284	335	96
175°	302	296	302	296	302	29
180°	296	296	296	296	296	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1118.4	1119.3	1120.2	1118.1	1118.1	1116.3	1112.4	1109.4	1101.0	1099.8	1099.8
5°	1195.7	1195.0	1196.5	1191.6	1184.9	1183.4	1176.3	1167.0	1157.3	1146.4	1144.2
7.5°	1272.7	1271.6	1268.6	1267.7	1262.6	1251.3	1239.9	1227.7	1211.6	1195.8	1187.9
10°	1311.5	1323.8	1316.4	1303.3	1305.9	1288.4	1279.0	1263.0	1249.5	1226.0	1220.8
12.5°	1349.7	1354.6	1352.2	1344.8	1341.5	1329.3	1316.7	1302.7	1277.9	1256.8	1238.4
15°	1349.6	1356.7	1358.6	1356.3	1358.2	1357.4	1350.7	1339.1	1317.5	1294.3	1274.2
17.5°	1250.0	1254.9	1267.1	1275.4	1285.9	1308.0	1318.9	1323.2	1319.9	1306.7	1292.5
20°	1138.2	1130.0	1164.4	1181.9	1196.9	1234.2	1266.3	1278.6	1298.4	1298.1	1294.3
22.5°	979.9	981.8	1014.4	1035.2	1078.9	1116.2	1152.8	1199.2	1237.5	1262.8	1277.6
25°	720.0	734.2	766.7	795.0	843.6	913.1	976.2	1049.4	1118.4	1173.0	1224.9
27.5°	540.7	541.8	567.5	593.8	622.6	679.5	759.0	846.4	944.9	1026.1	1119.6
30°	463.1	460.8	471.7	487.7	512.4	556.4	616.2	702.1	800.3	922.8	1031.8
32.5°	408.1	408.2	416.4	428.3	448.7	478.4	519.4	589.1	682.0	802.4	930.2
35°	354.8	354.4	360.4	369.0	377.5	396.6	424.6	461.2	525.1	637.5	768.2
37.5°	316.5	318.2	321.1	326.5	335.9	346.5	363.4	387.9	433.4	499.9	609.7
40°	295.0	295.8	299.9	304.4	310.0	318.2	332.0	351.8	385.0	438.0	518.3
42.5°	275.3	276.0	279.0	283.1	287.5	295.8	307.2	324.3	351.3	392.6	458.9
45°	246.5	246.5	249.1	250.9	255.8	263.3	272.6	286.8	305.5	336.1	380.2
47.5°	219.4	219.5	221.2	224.4	227.5	233.3	242.5	254.1	267.7	291.4	329.0
50°	203.9	204.3	205.4	208.0	209.9	215.1	222.2	232.3	246.5	264.8	296.1
52.5°	191.3	191.1	192.5	193.7	194.9	198.7	204.0	212.9	225.6	241.5	267.5
55°	171.0	169.5	171.8	173.6	174.8	176.3	179.2	184.9	195.7	209.1	228.5
57.5°	145.6	145.0	146.6	148.3	151.8	155.9	158.4	162.0	167.6	177.2	196.5
60°	124.7	124.7	128.1	129.2	133.3	138.5	143.8	146.8	152.4	158.7	172.9
62.5°	106.2	106.5	108.1	109.2	111.5	117.9	125.3	131.8	137.1	143.2	152.6
65°	88.9	89.6	89.6	90.4	91.9	93.4	96.3	101.6	110.9	119.5	126.6
67.5°	75.4	75.7	75.9	76.6	77.0	78.6	79.8	82.2	84.3	92.5	101.3
70°	66.5	67.6	67.2	68.0	68.3	69.1	70.6	71.7	75.1	76.9	82.2
72.5°	58.1	58.9	58.9	59.3	60.3	60.4	61.6	62.7	64.9	66.5	69.3
75°	47.1	46.7	47.1	47.8	48.2	48.5	48.5	50.0	51.2	52.7	54.5
77.5°	36.3	36.7	36.6	36.7	36.7	37.4	37.3	38.0	39.1	39.9	40.8
80°	29.1	29.5	29.1	29.5	29.9	30.2	29.9	30.2	31.4	32.1	32.1
82.5°	22.6	22.6	22.9	22.9	23.0	23.1	23.6	23.7	24.5	24.3	24.6
85°	13.4	13.1	13.1	13.1	13.4	13.8	13.4	13.4	13.8	13.8	13.8
87.5°	8.5	8.8	8.8	8.8	8.8	8.7	8.5	9.0	8.8	9.3	8.8
90°	18.8	18.8	18.8	18.8	18.8	18.2	17.1	18.2	18.8	19.4	18.8
92.5°	31.6	32.5	32.1	33.9	34.3	37.9	42.7	49.7	62.6	74.1	73.1
95°	65.0	64.4	66.2	70.7	78.1	90.7	114.6	149.4	195.6	223.6	197.9
97.5°	128.0	132.8	141.1	155.1	182.4	223.6	285.3	348.7	400.3	381.6	287.4
100°	204.2	214.4	231.0	255.5	302.8	371.8	450.0	520.7	532.6	450.5	310.2
102.5°	359.3	373.2	393.8	435.7	487.1	560.3	617.4	633.4	581.9	452.8	301.6
105°	642.7	650.7	675.2	710.6	745.9	764.8	757.3	692.9	574.3	422.6	284.6
107.5°	821.0	831.6	836.5	838.4	834.0	806.4	747.1	650.0	524.2	390.2	276.1
110°	874.8	875.4	870.3	859.4	834.9	788.1	715.1	613.1	492.7	374.7	274.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	873.9	870.8	861.1	843.0	808.9	755.3	677.3	579.3	470.8	364.6	274.8
115°	845.7	840.6	825.8	799.5	759.1	700.3	625.6	537.8	443.7	353.6	277.2
117.5°	795.4	791.1	775.5	747.8	706.5	651.4	583.6	506.5	426.6	348.2	281.3
120°	763.0	757.3	740.8	714.0	674.1	622.2	561.7	491.0	417.5	345.0	284.0
122.5°	729.3	724.5	709.8	683.4	647.6	600.7	543.5	478.7	409.7	343.2	287.2
125°	686.1	681.5	667.2	645.6	612.5	569.7	519.5	460.8	398.6	339.9	292.0
127.5°	648.2	644.5	632.2	611.9	583.1	543.6	496.3	443.1	388.4	338.0	296.9
130°	626.7	622.2	610.8	591.4	563.4	525.8	480.8	431.7	381.5	337.0	300.5
132.5°	604.4	600.3	589.8	570.4	542.9	507.6	466.2	420.8	376.0	336.6	304.2
135°	568.6	566.3	556.0	537.2	512.7	480.8	443.1	405.5	368.4	335.9	308.5
137.5°	533.4	530.0	521.0	504.8	482.5	454.6	424.8	393.3	363.0	335.8	312.4
140°	509.3	505.8	497.3	482.5	464.2	439.1	412.9	385.5	359.9	335.3	314.2
142.5°	485.1	484.4	476.8	463.3	446.0	425.0	402.4	379.1	356.7	335.3	315.6
145°	453.9	452.2	446.5	436.8	423.2	406.6	388.9	370.1	352.4	334.2	317.1
147.5°	427.8	426.8	422.9	415.2	403.9	391.8	378.0	363.2	348.1	332.1	317.5
150°	412.3	411.7	408.3	401.5	392.9	382.7	370.7	358.1	344.5	330.8	317.1
152.5°	399.1	399.0	396.5	390.5	383.8	374.9	364.8	353.1	341.3	328.5	316.2
155°	381.5	382.7	380.4	376.4	370.1	363.8	355.3	346.2	335.3	324.5	314.8
157.5°	366.6	366.6	365.6	362.2	357.8	352.9	345.7	338.1	329.7	320.4	312.2
160°	357.0	357.0	356.4	353.6	349.6	345.6	339.3	333.0	325.6	317.7	310.8
162.5°	347.9	348.3	347.8	345.8	341.8	338.8	333.4	328.0	322.0	315.4	309.4
165°	334.8	335.3	335.3	333.0	330.8	328.5	324.5	320.5	315.9	310.8	306.8
167.5°	322.7	323.4	323.5	322.2	321.2	319.1	316.4	313.3	310.0	306.8	304.2
170°	315.4	316.5	317.1	315.4	314.8	313.7	311.4	309.7	306.8	304.5	302.8
172.5°	309.4	310.1	310.7	309.9	309.3	308.6	306.8	305.6	303.6	301.8	301.0
175°	301.7	302.8	303.4	302.8	302.8	302.3	301.7	301.1	299.4	298.8	298.3
177.5°	297.0	297.9	298.4	298.4	298.4	298.4	297.9	297.9	297.0	296.5	297.0
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1100.4	1098.1	1096.0	1090.6	1087.9	1081.9	1081.0	1080.7	1073.0	1065.5	1063.4
5°	1138.2	1132.3	1123.3	1112.8	1102.0	1090.8	1083.3	1077.4	1062.4	1048.2	1040.0
7.5°	1176.3	1163.5	1148.0	1128.2	1111.7	1093.2	1079.5	1067.1	1045.9	1025.6	1011.9
10°	1204.7	1183.8	1163.3	1136.0	1114.7	1093.8	1074.4	1057.6	1033.7	1006.8	987.7
12.5°	1222.3	1199.3	1171.0	1144.4	1116.8	1090.2	1064.2	1042.6	1014.6	986.8	964.1
15°	1246.2	1221.5	1187.2	1149.1	1113.6	1078.9	1049.0	1022.1	985.5	952.3	924.6
17.5°	1265.7	1231.7	1194.8	1150.8	1109.7	1065.6	1027.1	992.7	952.0	911.9	879.4
20°	1271.9	1238.3	1195.7	1151.7	1103.1	1051.2	1009.8	972.4	928.7	885.0	847.7
22.5°	1268.0	1241.9	1194.5	1141.8	1092.1	1037.8	991.0	947.6	899.2	854.6	811.3
25°	1241.7	1232.7	1187.9	1130.4	1073.6	1010.5	956.4	908.9	853.7	805.9	758.8
27.5°	1180.2	1199.6	1171.8	1110.5	1047.4	979.7	918.9	864.9	807.5	753.7	706.8
30°	1121.1	1165.5	1153.5	1096.8	1026.2	959.7	891.4	835.0	773.8	718.5	672.2
32.5°	1040.1	1113.5	1125.2	1077.7	1004.7	931.6	860.0	803.9	740.0	681.7	636.6
35°	911.2	1021.0	1071.4	1041.1	967.9	889.2	815.2	749.9	685.6	628.1	583.3
37.5°	757.4	906.9	991.0	993.1	925.9	844.0	763.5	698.6	632.8	576.4	527.9
40°	657.6	819.7	929.1	953.4	896.6	808.1	726.7	660.6	596.4	541.1	485.5
42.5°	568.0	729.5	864.0	906.2	861.1	773.2	691.5	622.4	559.9	507.6	450.8
45°	459.3	600.5	748.7	824.2	799.2	717.7	631.5	565.8	507.1	461.9	407.4
47.5°	387.5	487.0	630.4	732.5	732.0	657.7	572.9	509.9	455.5	413.2	369.0
50°	346.5	433.2	554.6	670.3	680.0	617.7	537.0	474.6	423.9	379.4	343.9
52.5°	309.8	381.2	490.3	601.3	628.9	574.9	496.7	439.1	389.8	348.9	318.5
55°	261.8	317.0	400.0	503.8	545.6	507.5	438.0	384.3	344.3	310.0	283.8
57.5°	221.4	262.9	329.4	413.0	461.7	437.7	380.5	336.8	302.6	271.5	250.9
60°	196.1	230.0	286.4	356.3	410.0	393.2	344.3	303.6	274.5	247.6	228.2
62.5°	172.2	201.4	249.7	306.4	355.7	348.7	308.8	274.6	249.1	224.6	208.2
65°	138.5	159.8	197.5	242.0	281.6	284.9	256.2	233.0	210.2	190.8	176.3
67.5°	110.3	124.2	150.8	188.2	217.9	228.5	210.9	193.2	175.1	160.1	147.5
70°	93.0	104.2	123.6	153.9	181.1	192.3	182.2	168.4	152.7	140.4	129.6
72.5°	75.4	86.3	100.6	122.8	146.2	158.3	154.8	144.8	132.1	121.9	111.7
75°	56.8	60.1	69.8	84.8	103.1	113.5	116.1	110.9	100.8	93.0	87.0
77.5°	42.0	44.0	48.6	56.5	68.4	77.7	81.6	81.0	74.0	69.5	63.9
80°	33.6	34.7	37.0	40.3	49.3	58.6	61.2	61.2	56.4	54.5	48.9
82.5°	25.5	26.4	27.7	29.6	33.8	41.9	44.8	45.4	42.3	39.9	35.5
85°	14.6	14.2	14.9	16.1	16.8	19.0	23.5	24.3	23.5	20.5	19.4
87.5°	8.2	7.7	7.1	6.4	6.5	6.6	7.6	8.8	7.9	7.5	7.1
90°	15.4	11.4	8.6	6.8	5.7	4.6	2.3	0.6	2.3	4.6	5.7
92.5°	56.9	38.8	25.9	20.5	16.7	14.1	10.0	7.0	10.0	14.1	16.7
95°	131.7	82.1	55.9	42.2	33.1	27.9	22.2	20.0	22.2	27.9	33.1
97.5°	177.5	108.4	75.4	59.9	49.4	41.6	35.6	32.5	35.6	41.6	49.4
100°	187.1	117.5	87.3	71.3	59.9	50.8	45.6	43.9	45.6	50.8	59.9
102.5°	187.5	125.7	97.7	81.8	69.9	60.8	55.7	54.4	55.7	60.8	69.9
105°	190.5	139.7	112.9	96.9	84.4	75.8	71.9	69.6	71.9	75.8	84.4
107.5°	198.3	154.1	128.1	112.0	99.6	91.7	87.8	86.0	87.8	91.7	99.6
110°	204.7	163.7	138.6	122.0	110.1	102.7	99.2	96.9	99.2	102.7	110.1



TEST NUMBER: P331653

CATALOG NUMBER: SA2XXRDIP-C485D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	211.6	172.8	148.6	131.6	120.1	113.1	109.3	107.0	109.3	113.1	120.1
115°	221.8	187.1	162.5	147.1	135.7	128.9	125.5	122.6	125.5	128.9	135.7
117.5°	232.8	200.2	177.5	161.5	150.6	144.5	141.1	138.8	141.1	144.5	150.6
120°	240.1	209.3	187.1	171.1	159.7	154.5	151.1	148.8	151.1	154.5	159.7
122.5°	246.5	218.0	197.1	180.7	169.3	163.7	160.3	158.4	160.3	163.7	169.3
125°	256.6	231.0	210.4	194.5	183.1	176.2	172.8	171.1	172.8	176.2	183.1
127.5°	266.1	243.1	223.1	206.7	195.7	188.2	183.4	181.1	183.4	188.2	195.7
130°	272.0	250.4	230.4	214.4	203.0	195.0	189.3	187.1	189.3	195.0	203.0
132.5°	278.0	256.7	237.7	221.7	209.9	201.4	195.3	192.5	195.3	201.4	209.9
135°	285.7	265.8	247.5	231.5	218.4	209.9	203.0	200.7	203.0	209.9	218.4
137.5°	291.6	273.1	255.0	240.2	227.2	218.1	211.2	208.5	211.2	218.1	227.2
140°	294.8	277.2	260.1	245.2	232.7	223.6	216.7	214.4	216.7	223.6	232.7
142.5°	297.6	280.4	263.7	249.8	237.7	228.6	222.2	220.4	222.2	228.6	237.7
145°	301.1	285.1	269.7	257.2	245.8	237.2	231.5	229.3	231.5	237.2	245.8
147.5°	303.1	289.0	274.5	263.4	253.9	246.0	240.5	238.8	240.5	246.0	253.9
150°	304.0	290.8	277.7	267.5	258.9	251.5	246.9	245.2	246.9	251.5	258.9
152.5°	304.4	292.7	280.9	271.6	263.5	257.0	252.4	251.6	252.4	257.0	263.5
155°	305.1	295.4	285.7	277.2	270.9	264.6	261.2	260.6	261.2	264.6	270.9
157.5°	305.1	297.3	289.1	282.0	276.9	271.5	268.7	268.1	268.7	271.5	276.9
160°	305.1	298.3	291.4	285.1	280.6	276.0	273.7	273.2	273.7	276.0	280.6
162.5°	304.6	298.7	292.8	287.9	283.8	280.1	277.8	278.2	277.8	280.1	283.8
165°	303.4	299.4	294.3	290.8	288.0	284.6	283.4	284.0	283.4	284.6	288.0
167.5°	302.6	299.3	295.5	293.4	291.3	289.1	288.1	288.8	288.1	289.1	291.3
170°	301.7	298.8	296.0	294.3	293.1	291.4	290.8	292.0	290.8	291.4	293.1
172.5°	300.3	298.4	296.4	295.2	294.5	292.8	293.1	293.8	293.1	292.8	294.5
175°	298.8	297.7	296.5	296.0	296.0	294.8	295.4	296.0	295.4	294.8	296.0
177.5°	297.9	297.0	296.5	296.5	296.5	295.6	296.1	297.0	296.1	295.6	296.5
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



TEST NUMBER: P331653

CATALOG NUMBER: SA2XXRDIP-C485D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1059.5	1057.4	1053.5	1047.6	1044.0	1037.7	1033.5	1035.9	1036.5	1035.9	1035.3
5°	1031.1	1023.2	1012.4	1001.9	992.2	981.8	975.8	973.2	967.9	965.0	963.5
7.5°	996.6	983.1	967.8	949.6	934.1	917.9	909.6	905.5	894.8	889.0	883.9
10°	970.9	949.6	934.3	910.4	895.9	874.6	860.0	860.4	845.8	837.6	831.6
12.5°	942.6	919.2	893.7	872.2	852.0	834.9	817.3	810.2	794.7	786.8	770.7
15°	895.5	868.2	841.4	812.2	791.7	765.2	739.8	708.8	683.8	662.1	656.1
17.5°	844.1	810.4	783.4	749.2	714.0	669.4	640.0	622.0	606.9	595.5	587.0
20°	808.9	774.5	745.8	694.2	646.8	616.5	594.9	581.1	565.4	553.1	546.3
22.5°	771.8	736.0	696.8	639.2	602.3	578.0	558.7	542.8	532.2	522.6	516.5
25°	719.2	680.0	615.4	575.8	546.0	520.6	507.1	497.4	486.2	473.1	467.2
27.5°	663.7	601.3	554.9	525.5	497.0	480.5	468.4	453.9	443.9	438.0	431.8
30°	622.1	559.8	523.6	491.4	471.3	453.0	438.8	430.6	420.9	410.8	406.7
32.5°	575.8	526.0	491.3	464.6	444.1	428.5	417.3	404.0	397.0	390.8	382.2
35°	518.3	480.6	448.9	427.2	407.8	395.1	382.0	374.2	361.5	356.3	352.9
37.5°	469.6	436.9	413.2	390.4	375.0	361.0	353.0	340.5	335.0	327.7	320.6
40°	442.1	410.0	387.3	368.6	351.4	340.9	330.9	320.8	312.6	309.2	300.6
42.5°	414.1	387.9	365.1	344.7	333.2	322.1	309.4	302.0	293.4	288.0	282.7
45°	375.3	352.2	332.7	315.9	303.2	291.7	283.4	271.1	266.3	255.4	250.9
47.5°	341.2	319.7	301.2	285.2	272.8	265.3	253.3	243.6	235.9	229.2	223.5
50°	317.0	299.1	281.2	267.0	255.8	245.0	232.7	227.8	215.8	212.5	209.1
52.5°	294.9	277.9	261.5	247.6	236.4	225.9	215.0	208.7	200.6	197.2	194.8
55°	264.0	247.6	231.9	219.6	208.4	197.5	190.8	183.0	179.2	176.6	173.6
57.5°	232.9	218.2	206.1	193.7	182.4	173.8	166.0	161.3	157.4	154.0	150.4
60°	213.2	199.0	188.2	176.6	165.1	158.0	152.0	146.4	141.9	136.7	135.2
62.5°	192.3	179.9	170.0	158.7	148.6	142.1	136.5	131.2	125.8	118.2	116.1
65°	163.6	153.9	143.4	134.1	125.1	118.8	110.5	104.6	102.3	101.6	101.2
67.5°	137.6	128.4	119.4	109.9	101.7	95.8	91.6	90.7	89.2	88.7	87.7
70°	120.2	111.7	102.7	93.7	85.9	84.8	83.3	81.8	79.9	79.2	78.4
72.5°	104.7	95.8	86.9	79.7	76.3	74.9	73.4	71.9	70.7	69.9	69.5
75°	80.3	72.1	66.1	63.5	61.6	60.5	58.3	57.1	56.4	55.3	54.9
77.5°	57.8	53.2	50.4	48.8	46.8	45.6	44.4	43.2	42.4	42.2	41.6
80°	44.1	41.8	40.0	37.7	37.0	35.5	35.1	34.0	34.4	33.2	33.2
82.5°	34.2	31.4	29.8	28.8	28.0	26.8	26.4	25.9	26.0	25.2	25.2
85°	17.6	16.8	16.1	15.3	15.3	14.2	14.6	14.2	14.2	13.4	13.1
87.5°	7.0	7.1	7.1	7.9	8.5	8.4	8.2	7.8	7.6	7.8	7.6
90°	6.8	8.6	11.4	15.4	18.8	19.4	18.8	18.2	17.1	18.2	18.8
92.5°	20.5	25.9	38.8	56.9	73.1	74.1	62.6	49.7	42.7	37.9	34.3
95°	42.2	55.9	82.1	131.7	197.9	223.6	195.6	149.4	114.6	90.7	78.1
97.5°	59.9	75.4	108.4	177.5	287.4	381.6	400.3	348.7	285.3	223.6	182.4
100°	71.3	87.3	117.5	187.1	310.2	450.5	532.6	520.7	450.0	371.8	302.8
102.5°	81.8	97.7	125.7	187.5	301.6	452.8	581.9	633.4	617.4	560.3	487.1
105°	96.9	112.9	139.7	190.5	284.6	422.6	574.3	692.9	757.3	764.8	745.9
107.5°	112.0	128.1	154.1	198.3	276.1	390.2	524.2	650.0	747.1	806.4	834.0
110°	122.0	138.6	163.7	204.7	274.3	374.7	492.7	613.1	715.1	788.1	834.9



TEST NUMBER: P331653

CATALOG NUMBER: SA2XXRDIP-C485D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	131.6	148.6	172.8	211.6	274.8	364.6	470.8	579.3	677.3	755.3	808.9
115°	147.1	162.5	187.1	221.8	277.2	353.6	443.7	537.8	625.6	700.3	759.1
117.5°	161.5	177.5	200.2	232.8	281.3	348.2	426.6	506.5	583.6	651.4	706.5
120°	171.1	187.1	209.3	240.1	284.0	345.0	417.5	491.0	561.7	622.2	674.1
122.5°	180.7	197.1	218.0	246.5	287.2	343.2	409.7	478.7	543.5	600.7	647.6
125°	194.5	210.4	231.0	256.6	292.0	339.9	398.6	460.8	519.5	569.7	612.5
127.5°	206.7	223.1	243.1	266.1	296.9	338.0	388.4	443.1	496.3	543.6	583.1
130°	214.4	230.4	250.4	272.0	300.5	337.0	381.5	431.7	480.8	525.8	563.4
132.5°	221.7	237.7	256.7	278.0	304.2	336.6	376.0	420.8	466.2	507.6	542.9
135°	231.5	247.5	265.8	285.7	308.5	335.9	368.4	405.5	443.1	480.8	512.7
137.5°	240.2	255.0	273.1	291.6	312.4	335.8	363.0	393.3	424.8	454.6	482.5
140°	245.2	260.1	277.2	294.8	314.2	335.3	359.9	385.5	412.9	439.1	464.2
142.5°	249.8	263.7	280.4	297.6	315.6	335.3	356.7	379.1	402.4	425.0	446.0
145°	257.2	269.7	285.1	301.1	317.1	334.2	352.4	370.1	388.9	406.6	423.2
147.5°	263.4	274.5	289.0	303.1	317.5	332.1	348.1	363.2	378.0	391.8	403.9
150°	267.5	277.7	290.8	304.0	317.1	330.8	344.5	358.1	370.7	382.7	392.9
152.5°	271.6	280.9	292.7	304.4	316.2	328.5	341.3	353.1	364.8	374.9	383.8
155°	277.2	285.7	295.4	305.1	314.8	324.5	335.3	346.2	355.3	363.8	370.1
157.5°	282.0	289.1	297.3	305.1	312.2	320.4	329.7	338.1	345.7	352.9	357.8
160°	285.1	291.4	298.3	305.1	310.8	317.7	325.6	333.0	339.3	345.6	349.6
162.5°	287.9	292.8	298.7	304.6	309.4	315.4	322.0	328.0	333.4	338.8	341.8
165°	290.8	294.3	299.4	303.4	306.8	310.8	315.9	320.5	324.5	328.5	330.8
167.5°	293.4	295.5	299.3	302.6	304.2	306.8	310.0	313.3	316.4	319.1	321.2
170°	294.3	296.0	298.8	301.7	302.8	304.5	306.8	309.7	311.4	313.7	314.8
172.5°	295.2	296.4	298.4	300.3	301.0	301.8	303.6	305.6	306.8	308.6	309.3
175°	296.0	296.5	297.7	298.8	298.3	298.8	299.4	301.1	301.7	302.3	302.8
177.5°	296.5	296.5	297.0	297.9	297.0	296.5	297.0	297.9	297.9	298.4	298.4
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



TEST NUMBER: P331653

CATALOG NUMBER: SA2XXRDIP-C485D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1032.0	1032.6	1031.7	1032.3	1031.7	1032.6	1032.0	1035.3	1035.9	1036.5	1035.9
5°	961.6	957.1	956.4	955.3	956.4	957.1	961.6	963.5	965.0	967.9	973.2
7.5°	877.5	876.8	875.0	872.3	875.0	876.8	877.5	883.9	889.0	894.8	905.5
10°	823.4	821.6	821.2	818.6	821.2	821.6	823.4	831.6	837.6	845.8	860.4
12.5°	760.1	748.1	746.8	740.3	746.8	748.1	760.1	770.7	786.8	794.7	810.2
15°	647.2	644.9	637.5	632.6	637.5	644.9	647.2	656.1	662.1	683.8	708.8
17.5°	582.6	575.3	573.0	572.0	573.0	575.3	582.6	587.0	595.5	606.9	622.0
20°	541.1	534.4	533.3	532.5	533.3	534.4	541.1	546.3	553.1	565.4	581.1
22.5°	512.4	505.4	502.5	500.3	502.5	505.4	512.4	516.5	522.6	532.2	542.8
25°	463.4	460.8	459.3	458.6	459.3	460.8	463.4	467.2	473.1	486.2	497.4
27.5°	425.1	419.4	418.2	416.3	418.2	419.4	425.1	431.8	438.0	443.9	453.9
30°	403.3	401.4	398.8	396.6	398.8	401.4	403.3	406.7	410.8	420.9	430.6
32.5°	377.6	376.1	373.7	372.7	373.7	376.1	377.6	382.2	390.8	397.0	404.0
35°	349.2	343.9	341.7	338.3	341.7	343.9	349.2	352.9	356.3	361.5	374.2
37.5°	319.1	316.3	313.2	314.3	313.2	316.3	319.1	320.6	327.7	335.0	340.5
40°	295.8	293.9	293.1	292.8	293.1	293.9	295.8	300.6	309.2	312.6	320.8
42.5°	277.2	272.1	270.1	270.1	270.1	272.1	277.2	282.7	288.0	293.4	302.0
45°	249.1	244.2	240.9	241.2	240.9	244.2	249.1	250.9	255.4	266.3	271.1
47.5°	220.3	220.1	218.0	218.7	218.0	220.1	220.3	223.5	229.2	235.9	243.6
50°	206.5	204.3	202.8	203.1	202.8	204.3	206.5	209.1	212.5	215.8	227.8
52.5°	193.4	191.4	190.2	191.8	190.2	191.4	193.4	194.8	197.2	200.6	208.7
55°	171.8	169.5	169.2	168.8	169.2	169.5	171.8	173.6	176.6	179.2	183.0
57.5°	147.7	146.2	143.9	143.0	143.9	146.2	147.7	150.4	154.0	157.4	161.3
60°	130.3	127.3	123.6	123.2	123.6	127.3	130.3	135.2	136.7	141.9	146.4
62.5°	114.5	113.9	113.2	113.1	113.2	113.9	114.5	116.1	118.2	125.8	131.2
65°	100.5	100.1	100.5	100.8	100.5	100.1	100.5	101.2	101.6	102.3	104.6
67.5°	87.5	86.9	86.2	86.5	86.2	86.9	87.5	87.7	88.7	89.2	90.7
70°	77.7	77.3	76.9	76.9	76.9	77.3	77.7	78.4	79.2	79.9	81.8
72.5°	68.1	68.0	67.7	67.4	67.7	68.0	68.1	69.5	69.9	70.7	71.9
75°	54.5	53.8	53.8	53.8	53.8	53.8	54.5	54.9	55.3	56.4	57.1
77.5°	41.5	41.2	40.8	40.5	40.8	41.2	41.5	41.6	42.2	42.4	43.2
80°	32.9	32.5	32.1	32.1	32.1	32.5	32.9	33.2	33.2	34.4	34.0
82.5°	25.1	24.7	24.6	24.3	24.6	24.7	25.1	25.2	25.2	26.0	25.9
85°	13.4	13.8	13.4	14.2	13.4	13.8	13.4	13.1	13.4	14.2	14.2
87.5°	7.6	7.3	7.6	7.3	7.6	7.3	7.6	7.6	7.8	7.6	7.8
90°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.2	17.1	18.2
92.5°	33.9	32.1	32.5	31.6	32.5	32.1	33.9	34.3	37.9	42.7	49.7
95°	70.7	66.2	64.4	65.0	64.4	66.2	70.7	78.1	90.7	114.6	149.4
97.5°	155.1	141.1	132.8	128.0	132.8	141.1	155.1	182.4	223.6	285.3	348.7
100°	255.5	231.0	214.4	204.2	214.4	231.0	255.5	302.8	371.8	450.0	520.7
102.5°	435.7	393.8	373.2	359.3	373.2	393.8	435.7	487.1	560.3	617.4	633.4
105°	710.6	675.2	650.7	642.7	650.7	675.2	710.6	745.9	764.8	757.3	692.9
107.5°	838.4	836.5	831.6	821.0	831.6	836.5	838.4	834.0	806.4	747.1	650.0
110°	859.4	870.3	875.4	874.8	875.4	870.3	859.4	834.9	788.1	715.1	613.1



TEST NUMBER: P331653

CATALOG NUMBER: SA2XXRDIP-C485D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	843.0	861.1	870.8	873.9	870.8	861.1	843.0	808.9	755.3	677.3	579.3
115°	799.5	825.8	840.6	845.7	840.6	825.8	799.5	759.1	700.3	625.6	537.8
117.5°	747.8	775.5	791.1	795.4	791.1	775.5	747.8	706.5	651.4	583.6	506.5
120°	714.0	740.8	757.3	763.0	757.3	740.8	714.0	674.1	622.2	561.7	491.0
122.5°	683.4	709.8	724.5	729.3	724.5	709.8	683.4	647.6	600.7	543.5	478.7
125°	645.6	667.2	681.5	686.1	681.5	667.2	645.6	612.5	569.7	519.5	460.8
127.5°	611.9	632.2	644.5	648.2	644.5	632.2	611.9	583.1	543.6	496.3	443.1
130°	591.4	610.8	622.2	626.7	622.2	610.8	591.4	563.4	525.8	480.8	431.7
132.5°	570.4	589.8	600.3	604.4	600.3	589.8	570.4	542.9	507.6	466.2	420.8
135°	537.2	556.0	566.3	568.6	566.3	556.0	537.2	512.7	480.8	443.1	405.5
137.5°	504.8	521.0	530.0	533.4	530.0	521.0	504.8	482.5	454.6	424.8	393.3
140°	482.5	497.3	505.8	509.3	505.8	497.3	482.5	464.2	439.1	412.9	385.5
142.5°	463.3	476.8	484.4	485.1	484.4	476.8	463.3	446.0	425.0	402.4	379.1
145°	436.8	446.5	452.2	453.9	452.2	446.5	436.8	423.2	406.6	388.9	370.1
147.5°	415.2	422.9	426.8	427.8	426.8	422.9	415.2	403.9	391.8	378.0	363.2
150°	401.5	408.3	411.7	412.3	411.7	408.3	401.5	392.9	382.7	370.7	358.1
152.5°	390.5	396.5	399.0	399.1	399.0	396.5	390.5	383.8	374.9	364.8	353.1
155°	376.4	380.4	382.7	381.5	382.7	380.4	376.4	370.1	363.8	355.3	346.2
157.5°	362.2	365.6	366.6	366.6	366.6	365.6	362.2	357.8	352.9	345.7	338.1
160°	353.6	356.4	357.0	357.0	357.0	356.4	353.6	349.6	345.6	339.3	333.0
162.5°	345.8	347.8	348.3	347.9	348.3	347.8	345.8	341.8	338.8	333.4	328.0
165°	333.0	335.3	335.3	334.8	335.3	335.3	333.0	330.8	328.5	324.5	320.5
167.5°	322.2	323.5	323.4	322.7	323.4	323.5	322.2	321.2	319.1	316.4	313.3
170°	315.4	317.1	316.5	315.4	316.5	317.1	315.4	314.8	313.7	311.4	309.7
172.5°	309.9	310.7	310.1	309.4	310.1	310.7	309.9	309.3	308.6	306.8	305.6
175°	302.8	303.4	302.8	301.7	302.8	303.4	302.8	302.8	302.3	301.7	301.1
177.5°	298.4	298.4	297.9	297.0	297.9	298.4	298.4	298.4	298.4	297.9	297.9
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



TEST NUMBER: P331653

CATALOG NUMBER: SA2XXRDIP-C485D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1033.5	1037.7	1044.0	1047.6	1053.5	1057.4	1059.5	1063.4	1065.5	1073.0	1080.7
5°	975.8	981.8	992.2	1001.9	1012.4	1023.2	1031.1	1040.0	1048.2	1062.4	1077.4
7.5°	909.6	917.9	934.1	949.6	967.8	983.1	996.6	1011.9	1025.6	1045.9	1067.1
10°	860.0	874.6	895.9	910.4	934.3	949.6	970.9	987.7	1006.8	1033.7	1057.6
12.5°	817.3	834.9	852.0	872.2	893.7	919.2	942.6	964.1	986.8	1014.6	1042.6
15°	739.8	765.2	791.7	812.2	841.4	868.2	895.5	924.6	952.3	985.5	1022.1
17.5°	640.0	669.4	714.0	749.2	783.4	810.4	844.1	879.4	911.9	952.0	992.7
20°	594.9	616.5	646.8	694.2	745.8	774.5	808.9	847.7	885.0	928.7	972.4
22.5°	558.7	578.0	602.3	639.2	696.8	736.0	771.8	811.3	854.6	899.2	947.6
25°	507.1	520.6	546.0	575.8	615.4	680.0	719.2	758.8	805.9	853.7	908.9
27.5°	468.4	480.5	497.0	525.5	554.9	601.3	663.7	706.8	753.7	807.5	864.9
30°	438.8	453.0	471.3	491.4	523.6	559.8	622.1	672.2	718.5	773.8	835.0
32.5°	417.3	428.5	444.1	464.6	491.3	526.0	575.8	636.6	681.7	740.0	803.9
35°	382.0	395.1	407.8	427.2	448.9	480.6	518.3	583.3	628.1	685.6	749.9
37.5°	353.0	361.0	375.0	390.4	413.2	436.9	469.6	527.9	576.4	632.8	698.6
40°	330.9	340.9	351.4	368.6	387.3	410.0	442.1	485.5	541.1	596.4	660.6
42.5°	309.4	322.1	333.2	344.7	365.1	387.9	414.1	450.8	507.6	559.9	622.4
45°	283.4	291.7	303.2	315.9	332.7	352.2	375.3	407.4	461.9	507.1	565.8
47.5°	253.3	265.3	272.8	285.2	301.2	319.7	341.2	369.0	413.2	455.5	509.9
50°	232.7	245.0	255.8	267.0	281.2	299.1	317.0	343.9	379.4	423.9	474.6
52.5°	215.0	225.9	236.4	247.6	261.5	277.9	294.9	318.5	348.9	389.8	439.1
55°	190.8	197.5	208.4	219.6	231.9	247.6	264.0	283.8	310.0	344.3	384.3
57.5°	166.0	173.8	182.4	193.7	206.1	218.2	232.9	250.9	271.5	302.6	336.8
60°	152.0	158.0	165.1	176.6	188.2	199.0	213.2	228.2	247.6	274.5	303.6
62.5°	136.5	142.1	148.6	158.7	170.0	179.9	192.3	208.2	224.6	249.1	274.6
65°	110.5	118.8	125.1	134.1	143.4	153.9	163.6	176.3	190.8	210.2	233.0
67.5°	91.6	95.8	101.7	109.9	119.4	128.4	137.6	147.5	160.1	175.1	193.2
70°	83.3	84.8	85.9	93.7	102.7	111.7	120.2	129.6	140.4	152.7	168.4
72.5°	73.4	74.9	76.3	79.7	86.9	95.8	104.7	111.7	121.9	132.1	144.8
75°	58.3	60.5	61.6	63.5	66.1	72.1	80.3	87.0	93.0	100.8	110.9
77.5°	44.4	45.6	46.8	48.8	50.4	53.2	57.8	63.9	69.5	74.0	81.0
80°	35.1	35.5	37.0	37.7	40.0	41.8	44.1	48.9	54.5	56.4	61.2
82.5°	26.4	26.8	28.0	28.8	29.8	31.4	34.2	35.5	39.9	42.3	45.4
85°	14.6	14.2	15.3	15.3	16.1	16.8	17.6	19.4	20.5	23.5	24.3
87.5°	8.2	8.4	8.5	7.9	7.1	7.1	7.0	7.1	7.5	7.9	8.8
90°	18.8	19.4	18.8	15.4	11.4	8.6	6.8	5.7	4.6	2.3	0.6
92.5°	62.6	74.1	73.1	56.9	38.8	25.9	20.5	16.7	14.1	10.0	7.0
95°	195.6	223.6	197.9	131.7	82.1	55.9	42.2	33.1	27.9	22.2	20.0
97.5°	400.3	381.6	287.4	177.5	108.4	75.4	59.9	49.4	41.6	35.6	32.5
100°	532.6	450.5	310.2	187.1	117.5	87.3	71.3	59.9	50.8	45.6	43.9
102.5°	581.9	452.8	301.6	187.5	125.7	97.7	81.8	69.9	60.8	55.7	54.4
105°	574.3	422.6	284.6	190.5	139.7	112.9	96.9	84.4	75.8	71.9	69.6
107.5°	524.2	390.2	276.1	198.3	154.1	128.1	112.0	99.6	91.7	87.8	86.0
110°	492.7	374.7	274.3	204.7	163.7	138.6	122.0	110.1	102.7	99.2	96.9



TEST NUMBER: P331653

CATALOG NUMBER: SA2XXRDIP-C485D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	470.8	364.6	274.8	211.6	172.8	148.6	131.6	120.1	113.1	109.3	107.0
115°	443.7	353.6	277.2	221.8	187.1	162.5	147.1	135.7	128.9	125.5	122.6
117.5°	426.6	348.2	281.3	232.8	200.2	177.5	161.5	150.6	144.5	141.1	138.8
120°	417.5	345.0	284.0	240.1	209.3	187.1	171.1	159.7	154.5	151.1	148.8
122.5°	409.7	343.2	287.2	246.5	218.0	197.1	180.7	169.3	163.7	160.3	158.4
125°	398.6	339.9	292.0	256.6	231.0	210.4	194.5	183.1	176.2	172.8	171.1
127.5°	388.4	338.0	296.9	266.1	243.1	223.1	206.7	195.7	188.2	183.4	181.1
130°	381.5	337.0	300.5	272.0	250.4	230.4	214.4	203.0	195.0	189.3	187.1
132.5°	376.0	336.6	304.2	278.0	256.7	237.7	221.7	209.9	201.4	195.3	192.5
135°	368.4	335.9	308.5	285.7	265.8	247.5	231.5	218.4	209.9	203.0	200.7
137.5°	363.0	335.8	312.4	291.6	273.1	255.0	240.2	227.2	218.1	211.2	208.5
140°	359.9	335.3	314.2	294.8	277.2	260.1	245.2	232.7	223.6	216.7	214.4
142.5°	356.7	335.3	315.6	297.6	280.4	263.7	249.8	237.7	228.6	222.2	220.4
145°	352.4	334.2	317.1	301.1	285.1	269.7	257.2	245.8	237.2	231.5	229.3
147.5°	348.1	332.1	317.5	303.1	289.0	274.5	263.4	253.9	246.0	240.5	238.8
150°	344.5	330.8	317.1	304.0	290.8	277.7	267.5	258.9	251.5	246.9	245.2
152.5°	341.3	328.5	316.2	304.4	292.7	280.9	271.6	263.5	257.0	252.4	251.6
155°	335.3	324.5	314.8	305.1	295.4	285.7	277.2	270.9	264.6	261.2	260.6
157.5°	329.7	320.4	312.2	305.1	297.3	289.1	282.0	276.9	271.5	268.7	268.1
160°	325.6	317.7	310.8	305.1	298.3	291.4	285.1	280.6	276.0	273.7	273.2
162.5°	322.0	315.4	309.4	304.6	298.7	292.8	287.9	283.8	280.1	277.8	278.2
165°	315.9	310.8	306.8	303.4	299.4	294.3	290.8	288.0	284.6	283.4	284.0
167.5°	310.0	306.8	304.2	302.6	299.3	295.5	293.4	291.3	289.1	288.1	288.8
170°	306.8	304.5	302.8	301.7	298.8	296.0	294.3	293.1	291.4	290.8	292.0
172.5°	303.6	301.8	301.0	300.3	298.4	296.4	295.2	294.5	292.8	293.1	293.8
175°	299.4	298.8	298.3	298.8	297.7	296.5	296.0	296.0	294.8	295.4	296.0
177.5°	297.0	296.5	297.0	297.9	297.0	296.5	296.5	296.5	295.6	296.1	297.0
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



TEST NUMBER: P331653

CATALOG NUMBER: SA2XXRDIP-C485D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1081.0	1081.9	1087.9	1090.6	1096.0	1098.1	1100.4	1099.8	1099.8	1101.0	1109.4
5°	1083.3	1090.8	1102.0	1112.8	1123.3	1132.3	1138.2	1144.2	1146.4	1157.3	1167.0
7.5°	1079.5	1093.2	1111.7	1128.2	1148.0	1163.5	1176.3	1187.9	1195.8	1211.6	1227.7
10°	1074.4	1093.8	1114.7	1136.0	1163.3	1183.8	1204.7	1220.8	1226.0	1249.5	1263.0
12.5°	1064.2	1090.2	1116.8	1144.4	1171.0	1199.3	1222.3	1238.4	1256.8	1277.9	1302.7
15°	1049.0	1078.9	1113.6	1149.1	1187.2	1221.5	1246.2	1274.2	1294.3	1317.5	1339.1
17.5°	1027.1	1065.6	1109.7	1150.8	1194.8	1231.7	1265.7	1292.5	1306.7	1319.9	1323.2
20°	1009.8	1051.2	1103.1	1151.7	1195.7	1238.3	1271.9	1294.3	1298.1	1298.4	1278.6
22.5°	991.0	1037.8	1092.1	1141.8	1194.5	1241.9	1268.0	1277.6	1262.8	1237.5	1199.2
25°	956.4	1010.5	1073.6	1130.4	1187.9	1232.7	1241.7	1224.9	1173.0	1118.4	1049.4
27.5°	918.9	979.7	1047.4	1110.5	1171.8	1199.6	1180.2	1119.6	1026.1	944.9	846.4
30°	891.4	959.7	1026.2	1096.8	1153.5	1165.5	1121.1	1031.8	922.8	800.3	702.1
32.5°	860.0	931.6	1004.7	1077.7	1125.2	1113.5	1040.1	930.2	802.4	682.0	589.1
35°	815.2	889.2	967.9	1041.1	1071.4	1021.0	911.2	768.2	637.5	525.1	461.2
37.5°	763.5	844.0	925.9	993.1	991.0	906.9	757.4	609.7	499.9	433.4	387.9
40°	726.7	808.1	896.6	953.4	929.1	819.7	657.6	518.3	438.0	385.0	351.8
42.5°	691.5	773.2	861.1	906.2	864.0	729.5	568.0	458.9	392.6	351.3	324.3
45°	631.5	717.7	799.2	824.2	748.7	600.5	459.3	380.2	336.1	305.5	286.8
47.5°	572.9	657.7	732.0	732.5	630.4	487.0	387.5	329.0	291.4	267.7	254.1
50°	537.0	617.7	680.0	670.3	554.6	433.2	346.5	296.1	264.8	246.5	232.3
52.5°	496.7	574.9	628.9	601.3	490.3	381.2	309.8	267.5	241.5	225.6	212.9
55°	438.0	507.5	545.6	503.8	400.0	317.0	261.8	228.5	209.1	195.7	184.9
57.5°	380.5	437.7	461.7	413.0	329.4	262.9	221.4	196.5	177.2	167.6	162.0
60°	344.3	393.2	410.0	356.3	286.4	230.0	196.1	172.9	158.7	152.4	146.8
62.5°	308.8	348.7	355.7	306.4	249.7	201.4	172.2	152.6	143.2	137.1	131.8
65°	256.2	284.9	281.6	242.0	197.5	159.8	138.5	126.6	119.5	110.9	101.6
67.5°	210.9	228.5	217.9	188.2	150.8	124.2	110.3	101.3	92.5	84.3	82.2
70°	182.2	192.3	181.1	153.9	123.6	104.2	93.0	82.2	76.9	75.1	71.7
72.5°	154.8	158.3	146.2	122.8	100.6	86.3	75.4	69.3	66.5	64.9	62.7
75°	116.1	113.5	103.1	84.8	69.8	60.1	56.8	54.5	52.7	51.2	50.0
77.5°	81.6	77.7	68.4	56.5	48.6	44.0	42.0	40.8	39.9	39.1	38.0
80°	61.2	58.6	49.3	40.3	37.0	34.7	33.6	32.1	32.1	31.4	30.2
82.5°	44.8	41.9	33.8	29.6	27.7	26.4	25.5	24.6	24.3	24.5	23.7
85°	23.5	19.0	16.8	16.1	14.9	14.2	14.6	13.8	13.8	13.8	13.4
87.5°	7.6	6.6	6.5	6.4	7.1	7.7	8.2	8.8	9.3	8.8	9.0
90°	2.3	4.6	5.7	6.8	8.6	11.4	15.4	18.8	19.4	18.8	18.2
92.5°	10.0	14.1	16.7	20.5	25.9	38.8	56.9	73.1	74.1	62.6	49.7
95°	22.2	27.9	33.1	42.2	55.9	82.1	131.7	197.9	223.6	195.6	149.4
97.5°	35.6	41.6	49.4	59.9	75.4	108.4	177.5	287.4	381.6	400.3	348.7
100°	45.6	50.8	59.9	71.3	87.3	117.5	187.1	310.2	450.5	532.6	520.7
102.5°	55.7	60.8	69.9	81.8	97.7	125.7	187.5	301.6	452.8	581.9	633.4
105°	71.9	75.8	84.4	96.9	112.9	139.7	190.5	284.6	422.6	574.3	692.9
107.5°	87.8	91.7	99.6	112.0	128.1	154.1	198.3	276.1	390.2	524.2	650.0
110°	99.2	102.7	110.1	122.0	138.6	163.7	204.7	274.3	374.7	492.7	613.1



TEST NUMBER: P331653

CATALOG NUMBER: SA2XXRDIP-C485D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	109.3	113.1	120.1	131.6	148.6	172.8	211.6	274.8	364.6	470.8	579.3
115°	125.5	128.9	135.7	147.1	162.5	187.1	221.8	277.2	353.6	443.7	537.8
117.5°	141.1	144.5	150.6	161.5	177.5	200.2	232.8	281.3	348.2	426.6	506.5
120°	151.1	154.5	159.7	171.1	187.1	209.3	240.1	284.0	345.0	417.5	491.0
122.5°	160.3	163.7	169.3	180.7	197.1	218.0	246.5	287.2	343.2	409.7	478.7
125°	172.8	176.2	183.1	194.5	210.4	231.0	256.6	292.0	339.9	398.6	460.8
127.5°	183.4	188.2	195.7	206.7	223.1	243.1	266.1	296.9	338.0	388.4	443.1
130°	189.3	195.0	203.0	214.4	230.4	250.4	272.0	300.5	337.0	381.5	431.7
132.5°	195.3	201.4	209.9	221.7	237.7	256.7	278.0	304.2	336.6	376.0	420.8
135°	203.0	209.9	218.4	231.5	247.5	265.8	285.7	308.5	335.9	368.4	405.5
137.5°	211.2	218.1	227.2	240.2	255.0	273.1	291.6	312.4	335.8	363.0	393.3
140°	216.7	223.6	232.7	245.2	260.1	277.2	294.8	314.2	335.3	359.9	385.5
142.5°	222.2	228.6	237.7	249.8	263.7	280.4	297.6	315.6	335.3	356.7	379.1
145°	231.5	237.2	245.8	257.2	269.7	285.1	301.1	317.1	334.2	352.4	370.1
147.5°	240.5	246.0	253.9	263.4	274.5	289.0	303.1	317.5	332.1	348.1	363.2
150°	246.9	251.5	258.9	267.5	277.7	290.8	304.0	317.1	330.8	344.5	358.1
152.5°	252.4	257.0	263.5	271.6	280.9	292.7	304.4	316.2	328.5	341.3	353.1
155°	261.2	264.6	270.9	277.2	285.7	295.4	305.1	314.8	324.5	335.3	346.2
157.5°	268.7	271.5	276.9	282.0	289.1	297.3	305.1	312.2	320.4	329.7	338.1
160°	273.7	276.0	280.6	285.1	291.4	298.3	305.1	310.8	317.7	325.6	333.0
162.5°	277.8	280.1	283.8	287.9	292.8	298.7	304.6	309.4	315.4	322.0	328.0
165°	283.4	284.6	288.0	290.8	294.3	299.4	303.4	306.8	310.8	315.9	320.5
167.5°	288.1	289.1	291.3	293.4	295.5	299.3	302.6	304.2	306.8	310.0	313.3
170°	290.8	291.4	293.1	294.3	296.0	298.8	301.7	302.8	304.5	306.8	309.7
172.5°	293.1	292.8	294.5	295.2	296.4	298.4	300.3	301.0	301.8	303.6	305.6
175°	295.4	294.8	296.0	296.0	296.5	297.7	298.8	298.3	298.8	299.4	301.1
177.5°	296.1	295.6	296.5	296.5	296.5	297.0	297.9	297.0	296.5	297.0	297.9
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1112.4	1116.3	1118.1	1118.1	1120.2	1119.3	1118.4
5°	1176.3	1183.4	1184.9	1191.6	1196.5	1195.0	1195.7
7.5°	1239.9	1251.3	1262.6	1267.7	1268.6	1271.6	1272.7
10°	1279.0	1288.4	1305.9	1303.3	1316.4	1323.8	1311.5
12.5°	1316.7	1329.3	1341.5	1344.8	1352.2	1354.6	1349.7
15°	1350.7	1357.4	1358.2	1356.3	1358.6	1356.7	1349.6
17.5°	1318.9	1308.0	1285.9	1275.4	1267.1	1254.9	1250.0
20°	1266.3	1234.2	1196.9	1181.9	1164.4	1130.0	1138.2
22.5°	1152.8	1116.2	1078.9	1035.2	1014.4	981.8	979.9
25°	976.2	913.1	843.6	795.0	766.7	734.2	720.0
27.5°	759.0	679.5	622.6	593.8	567.5	541.8	540.7
30°	616.2	556.4	512.4	487.7	471.7	460.8	463.1
32.5°	519.4	478.4	448.7	428.3	416.4	408.2	408.1
35°	424.6	396.6	377.5	369.0	360.4	354.4	354.8
37.5°	363.4	346.5	335.9	326.5	321.1	318.2	316.5
40°	332.0	318.2	310.0	304.4	299.9	295.8	295.0
42.5°	307.2	295.8	287.5	283.1	279.0	276.0	275.3
45°	272.6	263.3	255.8	250.9	249.1	246.5	246.5
47.5°	242.5	233.3	227.5	224.4	221.2	219.5	219.4
50°	222.2	215.1	209.9	208.0	205.4	204.3	203.9
52.5°	204.0	198.7	194.9	193.7	192.5	191.1	191.3
55°	179.2	176.3	174.8	173.6	171.8	169.5	171.0
57.5°	158.4	155.9	151.8	148.3	146.6	145.0	145.6
60°	143.8	138.5	133.3	129.2	128.1	124.7	124.7
62.5°	125.3	117.9	111.5	109.2	108.1	106.5	106.2
65°	96.3	93.4	91.9	90.4	89.6	89.6	88.9
67.5°	79.8	78.6	77.0	76.6	75.9	75.7	75.4
70°	70.6	69.1	68.3	68.0	67.2	67.6	66.5
72.5°	61.6	60.4	60.3	59.3	58.9	58.9	58.1
75°	48.5	48.5	48.2	47.8	47.1	46.7	47.1
77.5°	37.3	37.4	36.7	36.7	36.6	36.7	36.3
80°	29.9	30.2	29.9	29.5	29.1	29.5	29.1
82.5°	23.6	23.1	23.0	22.9	22.9	22.6	22.6
85°	13.4	13.8	13.4	13.1	13.1	13.1	13.4
87.5°	8.5	8.7	8.8	8.8	8.8	8.8	8.5
90°	17.1	18.2	18.8	18.8	18.8	18.8	18.8
92.5°	42.7	37.9	34.3	33.9	32.1	32.5	31.6
95°	114.6	90.7	78.1	70.7	66.2	64.4	65.0
97.5°	285.3	223.6	182.4	155.1	141.1	132.8	128.0
100°	450.0	371.8	302.8	255.5	231.0	214.4	204.2
102.5°	617.4	560.3	487.1	435.7	393.8	373.2	359.3
105°	757.3	764.8	745.9	710.6	675.2	650.7	642.7
107.5°	747.1	806.4	834.0	838.4	836.5	831.6	821.0
110°	715.1	788.1	834.9	859.4	870.3	875.4	874.8



TEST NUMBER: P331653

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	677.3	755.3	808.9	843.0	861.1	870.8	873.9
115°	625.6	700.3	759.1	799.5	825.8	840.6	845.7
117.5°	583.6	651.4	706.5	747.8	775.5	791.1	795.4
120°	561.7	622.2	674.1	714.0	740.8	757.3	763.0
122.5°	543.5	600.7	647.6	683.4	709.8	724.5	729.3
125°	519.5	569.7	612.5	645.6	667.2	681.5	686.1
127.5°	496.3	543.6	583.1	611.9	632.2	644.5	648.2
130°	480.8	525.8	563.4	591.4	610.8	622.2	626.7
132.5°	466.2	507.6	542.9	570.4	589.8	600.3	604.4
135°	443.1	480.8	512.7	537.2	556.0	566.3	568.6
137.5°	424.8	454.6	482.5	504.8	521.0	530.0	533.4
140°	412.9	439.1	464.2	482.5	497.3	505.8	509.3
142.5°	402.4	425.0	446.0	463.3	476.8	484.4	485.1
145°	388.9	406.6	423.2	436.8	446.5	452.2	453.9
147.5°	378.0	391.8	403.9	415.2	422.9	426.8	427.8
150°	370.7	382.7	392.9	401.5	408.3	411.7	412.3
152.5°	364.8	374.9	383.8	390.5	396.5	399.0	399.1
155°	355.3	363.8	370.1	376.4	380.4	382.7	381.5
157.5°	345.7	352.9	357.8	362.2	365.6	366.6	366.6
160°	339.3	345.6	349.6	353.6	356.4	357.0	357.0
162.5°	333.4	338.8	341.8	345.8	347.8	348.3	347.9
165°	324.5	328.5	330.8	333.0	335.3	335.3	334.8
167.5°	316.4	319.1	321.2	322.2	323.5	323.4	322.7
170°	311.4	313.7	314.8	315.4	317.1	316.5	315.4
172.5°	306.8	308.6	309.3	309.9	310.7	310.1	309.4
175°	301.7	302.3	302.8	302.8	303.4	302.8	301.7
177.5°	297.9	298.4	298.4	298.4	298.4	297.9	297.0
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5

(END OF REPORT)