

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: P331659

Luminaire Tested: **SA2XXRDIP-C485D725U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331659
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-C485D725U835-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

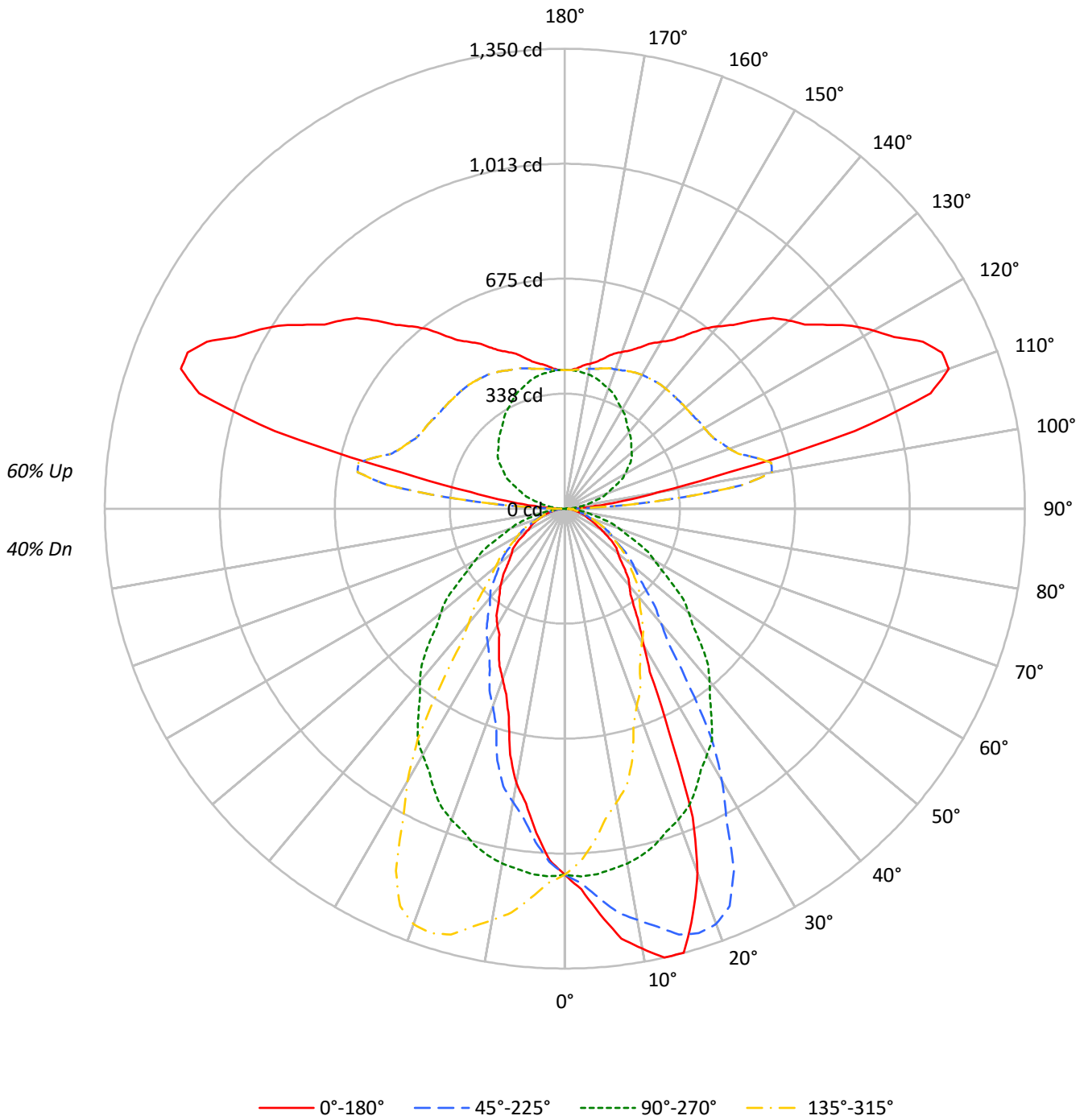
Lumens per Lamp: N/A
Luminaire Lumens: 4689.7 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 38.4
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	50	30	10	0	
RCR																						
0	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40				
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	41	35				
2	88	81	75	71	80	74	69	65	61	58	55	49	47	45	38	36	35	30				
3	81	72	65	60	73	66	60	55	54	50	47	44	41	39	34	32	31	26				
4	74	64	57	51	67	59	52	47	49	44	40	40	36	34	31	29	27	23				
5	68	57	50	44	62	53	46	41	44	39	35	36	32	30	28	26	24	21				
6	63	52	44	39	57	48	41	36	40	35	31	33	29	26	26	23	22	19				
7	58	47	39	34	53	43	37	32	36	31	28	30	26	24	24	21	19	17				
8	54	43	35	30	50	39	33	28	33	28	25	28	24	21	22	20	18	15				
9	51	39	32	27	46	36	30	26	31	26	22	25	22	19	21	18	16	14				
10	47	36	29	25	43	33	27	23	28	24	20	24	20	18	19	17	15	13				

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



TEST NUMBER: P331659

CATALOG NUMBER: SA2XXRDIP-C485D725U835-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	2.2
10°-20°	283.9	6.1
20°-30°	365.8	7.8
30°-40°	347.6	7.4
40°-50°	297.8	6.4
50°-60°	226.8	4.8
60°-70°	143.4	3.1
70°-80°	71.6	1.5
80°-90°	22.3	0.5
90°-100°	162.5	3.5
100°-110°	551.5	11.8
110°-120°	585.9	12.5
120°-130°	482.3	10.3
130°-140°	387.3	8.3
140°-150°	292.7	6.2
150°-160°	205.7	4.4
160°-170°	121.1	2.6
170°-180°	39.4	0.8
0°-30°	751.6	16.0
0°-40°	1099.2	23.4
0°-60°	1623.8	34.6
0°-90°	1861.1	39.7
90°-120°	1300.0	27.7
90°-150°	2462.4	52.5
90°-180°	2829.0	60.3
0°-180°	4689.7	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°	26	1	26	1	26	14
95°	89	27	89	27	89	116
105°	881	95	881	95	881	852
115°	1159	168	1159	168	1159	1135
125°	940	234	940	234	940	850
135°	779	275	779	275	779	605
145°	622	314	622	314	622	395
155°	523	357	523	357	523	244
165°	459	389	459	389	459	131
175°	414	406	414	406	414	40
180°	406	406	406	406	406	



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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°	9.9	10.2	10.2	10.2	10.2	10.1	9.8	10.4	10.2	10.7	10.2
90°	25.8	25.8	25.8	25.8	25.8	25.0	23.5	25.0	25.8	26.6	25.8
92.5°	43.3	44.6	43.9	46.4	47.1	51.9	58.5	68.2	85.8	101.6	100.2
95°	89.1	88.3	90.7	96.9	107.1	124.3	157.1	204.8	268.1	306.4	271.3
97.5°	175.4	182.0	193.4	212.6	250.0	306.4	391.0	477.9	548.8	523.1	394.0
100°	279.8	293.9	316.6	350.2	415.1	509.7	616.8	713.7	730.1	617.5	425.2
102.5°	492.5	511.5	539.8	597.2	667.7	767.9	846.3	868.2	797.6	620.7	413.4
105°	881.0	891.9	925.5	974.0	1022.5	1048.3	1038.1	949.8	787.2	579.2	390.1
107.5°	1125.3	1139.9	1146.6	1149.3	1143.2	1105.3	1024.0	891.0	718.5	534.8	378.5
110°	1199.1	1199.9	1192.9	1178.0	1144.4	1080.3	980.3	840.3	675.4	513.6	376.0



TEST NUMBER: P331659

CATALOG NUMBER: SA2XXRDIP-C485D725U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1197.9	1193.7	1180.4	1155.5	1108.8	1035.3	928.3	794.1	645.4	499.8	376.6
115°	1159.3	1152.2	1131.9	1095.9	1040.4	959.9	857.5	737.1	608.2	484.7	379.9
117.5°	1090.3	1084.4	1063.0	1025.0	968.4	892.9	800.0	694.3	584.7	477.3	385.5
120°	1045.9	1038.1	1015.4	978.7	924.0	852.8	770.0	673.0	572.2	472.9	389.3
122.5°	999.6	993.1	972.9	936.8	887.7	823.4	745.0	656.2	561.6	470.4	393.7
125°	940.4	934.1	914.6	884.9	839.5	780.9	712.1	631.6	546.4	465.9	400.2
127.5°	888.5	883.5	866.6	838.8	799.2	745.1	680.2	607.4	532.3	463.2	407.0
130°	859.1	852.8	837.2	810.6	772.3	720.7	659.0	591.7	523.0	462.0	412.0
132.5°	828.4	822.8	808.4	781.9	744.2	695.7	639.0	576.7	515.5	461.4	417.0
135°	779.4	776.2	762.2	736.4	702.7	659.0	607.4	555.8	505.0	460.4	422.9
137.5°	731.2	726.5	714.2	692.0	661.3	623.2	582.2	539.1	497.6	460.3	428.2
140°	698.1	693.4	681.6	661.3	636.3	601.9	566.0	528.4	493.3	459.6	430.7
142.5°	664.9	664.0	653.5	635.1	611.3	582.5	551.6	519.7	488.9	459.6	432.6
145°	622.2	619.9	612.1	598.8	580.0	557.4	533.1	507.3	483.1	458.1	434.6
147.5°	586.4	585.0	579.7	569.1	553.6	537.0	518.1	497.8	477.2	455.3	435.3
150°	565.2	564.4	559.7	550.3	538.6	524.5	508.1	490.9	472.1	453.4	434.6
152.5°	547.0	546.9	543.4	535.3	526.1	513.9	500.0	484.0	467.8	450.3	433.4
155°	523.0	524.5	521.4	515.9	507.3	498.7	487.0	474.5	459.6	444.8	431.5
157.5°	502.5	502.5	501.1	496.5	490.4	483.7	473.9	463.4	452.0	439.2	427.9
160°	489.3	489.3	488.6	484.7	479.2	473.7	465.1	456.5	446.4	435.4	426.0
162.5°	476.8	477.5	476.7	474.0	468.6	464.3	457.0	449.6	441.3	432.3	424.2
165°	458.9	459.6	459.6	456.5	453.4	450.3	444.8	439.3	433.1	426.0	420.6
167.5°	442.3	443.2	443.4	441.7	440.3	437.4	433.7	429.5	424.9	420.6	417.0
170°	432.3	433.8	434.6	432.3	431.5	429.9	426.8	424.5	420.6	417.4	415.1
172.5°	424.2	425.1	425.9	424.8	424.0	423.1	420.6	418.8	416.2	413.7	412.6
175°	413.5	415.1	415.9	415.1	415.1	414.3	413.5	412.7	410.4	409.6	408.8
177.5°	407.1	408.4	409.0	409.0	409.0	409.0	408.4	408.4	407.1	406.5	407.1
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331659

CATALOG NUMBER: SA2XXRDIP-C485D725U835-4F0-1E-UDD-A4

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°	9.3	8.5	7.7	7.0	6.9	6.9	7.8	8.8	8.1	7.8	7.5
90°	21.1	15.6	11.7	9.4	7.8	6.3	3.1	0.8	3.1	6.3	7.8
92.5°	78.0	53.2	35.5	28.1	22.8	19.4	13.8	9.5	13.8	19.4	22.8
95°	180.6	112.6	76.6	57.8	45.3	38.3	30.5	27.4	30.5	38.3	45.3
97.5°	243.3	148.5	103.3	82.1	67.7	57.1	48.8	44.6	48.8	57.1	67.7
100°	256.4	161.0	119.6	97.7	82.1	69.6	62.5	60.2	62.5	69.6	82.1
102.5°	257.0	172.3	134.0	112.1	95.8	83.3	76.3	74.6	76.3	83.3	95.8
105°	261.1	191.5	154.8	132.9	115.7	104.0	98.5	95.4	98.5	104.0	115.7
107.5°	271.9	211.2	175.6	153.5	136.5	125.7	120.4	117.9	120.4	125.7	136.5
110°	280.6	224.3	190.0	167.3	150.9	140.7	136.0	132.9	136.0	140.7	150.9



TEST NUMBER: P331659

CATALOG NUMBER: SA2XXRDIP-C485D725U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	290.0	236.9	203.7	180.4	164.6	155.1	149.8	146.6	149.8	155.1	164.6
115°	304.1	256.4	222.8	201.7	186.0	176.7	172.0	168.1	172.0	176.7	186.0
117.5°	319.1	274.4	243.3	221.4	206.4	198.1	193.4	190.3	193.4	198.1	206.4
120°	329.1	286.9	256.4	234.5	218.9	211.8	207.2	204.0	207.2	211.8	218.9
122.5°	337.9	298.8	270.2	247.6	232.0	224.3	219.7	217.2	219.7	224.3	232.0
125°	351.8	316.6	288.4	266.6	250.9	241.5	236.9	234.5	236.9	241.5	250.9
127.5°	364.7	333.2	305.8	283.3	268.3	258.0	251.4	248.3	251.4	258.0	268.3
130°	372.9	343.2	315.8	293.9	278.3	267.3	259.5	256.4	259.5	267.3	278.3
132.5°	381.0	351.9	325.8	303.9	287.7	276.1	267.7	263.9	267.7	276.1	287.7
135°	391.6	364.3	339.3	317.4	299.4	287.7	278.3	275.2	278.3	287.7	299.4
137.5°	399.8	374.3	349.6	329.3	311.4	298.9	289.5	285.8	289.5	298.9	311.4
140°	404.1	379.9	356.5	336.1	318.9	306.4	297.0	293.9	297.0	306.4	318.9
142.5°	407.9	384.3	361.5	342.4	325.8	313.3	304.6	302.0	304.6	313.3	325.8
145°	412.7	390.9	369.7	352.5	336.9	325.2	317.4	314.2	317.4	325.2	336.9
147.5°	415.4	396.2	376.3	361.0	348.0	337.2	329.7	327.4	329.7	337.2	348.0
150°	416.6	398.7	380.7	366.6	354.9	344.7	338.5	336.1	338.5	344.7	354.9
152.5°	417.3	401.2	385.1	372.2	361.1	352.2	346.0	344.9	346.0	352.2	361.1
155°	418.2	404.9	391.6	379.9	371.3	362.7	358.0	357.2	358.0	362.7	371.3
157.5°	418.2	407.6	396.3	386.5	379.6	372.1	368.3	367.6	368.3	372.1	379.6
160°	418.2	408.8	399.4	390.9	384.6	378.3	375.2	374.4	375.2	378.3	384.6
162.5°	417.6	409.5	401.3	394.6	389.0	384.0	380.8	381.3	380.8	384.0	389.0
165°	415.9	410.4	403.4	398.7	394.8	390.1	388.5	389.3	388.5	390.1	394.8
167.5°	414.8	410.2	405.1	402.1	399.3	396.3	394.9	395.9	394.9	396.3	399.3
170°	413.5	409.6	405.7	403.4	401.8	399.4	398.7	400.2	398.7	399.4	401.8
172.5°	411.6	409.0	406.3	404.6	403.7	401.3	401.8	402.7	401.8	401.3	403.7
175°	409.6	408.0	406.5	405.7	405.7	404.1	404.9	405.7	404.9	404.1	405.7
177.5°	408.4	407.1	406.5	406.5	406.5	405.2	405.9	407.1	405.9	405.2	406.5
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331659

CATALOG NUMBER: SA2XXRDIP-C485D725U835-4F0-1E-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°	7.6	7.7	7.9	9.0	9.9	9.8	9.6	9.2	8.9	9.2	9.0
90°	9.4	11.7	15.6	21.1	25.8	26.6	25.8	25.0	23.5	25.0	25.8
92.5°	28.1	35.5	53.2	78.0	100.2	101.6	85.8	68.2	58.5	51.9	47.1
95°	57.8	76.6	112.6	180.6	271.3	306.4	268.1	204.8	157.1	124.3	107.1
97.5°	82.1	103.3	148.5	243.3	394.0	523.1	548.8	477.9	391.0	306.4	250.0
100°	97.7	119.6	161.0	256.4	425.2	617.5	730.1	713.7	616.8	509.7	415.1
102.5°	112.1	134.0	172.3	257.0	413.4	620.7	797.6	868.2	846.3	767.9	667.7
105°	132.9	154.8	191.5	261.1	390.1	579.2	787.2	949.8	1038.1	1048.3	1022.5
107.5°	153.5	175.6	211.2	271.9	378.5	534.8	718.5	891.0	1024.0	1105.3	1143.2
110°	167.3	190.0	224.3	280.6	376.0	513.6	675.4	840.3	980.3	1080.3	1144.4



TEST NUMBER: P331659

CATALOG NUMBER: SA2XXRDIP-C485D725U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	180.4	203.7	236.9	290.0	376.6	499.8	645.4	794.1	928.3	1035.3	1108.8
115°	201.7	222.8	256.4	304.1	379.9	484.7	608.2	737.1	857.5	959.9	1040.4
117.5°	221.4	243.3	274.4	319.1	385.5	477.3	584.7	694.3	800.0	892.9	968.4
120°	234.5	256.4	286.9	329.1	389.3	472.9	572.2	673.0	770.0	852.8	924.0
122.5°	247.6	270.2	298.8	337.9	393.7	470.4	561.6	656.2	745.0	823.4	887.7
125°	266.6	288.4	316.6	351.8	400.2	465.9	546.4	631.6	712.1	780.9	839.5
127.5°	283.3	305.8	333.2	364.7	407.0	463.2	532.3	607.4	680.2	745.1	799.2
130°	293.9	315.8	343.2	372.9	412.0	462.0	523.0	591.7	659.0	720.7	772.3
132.5°	303.9	325.8	351.9	381.0	417.0	461.4	515.5	576.7	639.0	695.7	744.2
135°	317.4	339.3	364.3	391.6	422.9	460.4	505.0	555.8	607.4	659.0	702.7
137.5°	329.3	349.6	374.3	399.8	428.2	460.3	497.6	539.1	582.2	623.2	661.3
140°	336.1	356.5	379.9	404.1	430.7	459.6	493.3	528.4	566.0	601.9	636.3
142.5°	342.4	361.5	384.3	407.9	432.6	459.6	488.9	519.7	551.6	582.5	611.3
145°	352.5	369.7	390.9	412.7	434.6	458.1	483.1	507.3	533.1	557.4	580.0
147.5°	361.0	376.3	396.2	415.4	435.3	455.3	477.2	497.8	518.1	537.0	553.6
150°	366.6	380.7	398.7	416.6	434.6	453.4	472.1	490.9	508.1	524.5	538.6
152.5°	372.2	385.1	401.2	417.3	433.4	450.3	467.8	484.0	500.0	513.9	526.1
155°	379.9	391.6	404.9	418.2	431.5	444.8	459.6	474.5	487.0	498.7	507.3
157.5°	386.5	396.3	407.6	418.2	427.9	439.2	452.0	463.4	473.9	483.7	490.4
160°	390.9	399.4	408.8	418.2	426.0	435.4	446.4	456.5	465.1	473.7	479.2
162.5°	394.6	401.3	409.5	417.6	424.2	432.3	441.3	449.6	457.0	464.3	468.6
165°	398.7	403.4	410.4	415.9	420.6	426.0	433.1	439.3	444.8	450.3	453.4
167.5°	402.1	405.1	410.2	414.8	417.0	420.6	424.9	429.5	433.7	437.4	440.3
170°	403.4	405.7	409.6	413.5	415.1	417.4	420.6	424.5	426.8	429.9	431.5
172.5°	404.6	406.3	409.0	411.6	412.6	413.7	416.2	418.8	420.6	423.1	424.0
175°	405.7	406.5	408.0	409.6	408.8	409.6	410.4	412.7	413.5	414.3	415.1
177.5°	406.5	406.5	407.1	408.4	407.1	406.5	407.1	408.4	408.4	409.0	409.0
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331659

CATALOG NUMBER: SA2XXRDIP-C485D725U835-4F0-1E-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°	9.0	8.7	9.0	8.7	9.0	8.7	9.0	9.0	9.2	8.9	9.2
90°	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.0	23.5	25.0
92.5°	46.4	43.9	44.6	43.3	44.6	43.9	46.4	47.1	51.9	58.5	68.2
95°	96.9	90.7	88.3	89.1	88.3	90.7	96.9	107.1	124.3	157.1	204.8
97.5°	212.6	193.4	182.0	175.4	182.0	193.4	212.6	250.0	306.4	391.0	477.9
100°	350.2	316.6	293.9	279.8	293.9	316.6	350.2	415.1	509.7	616.8	713.7
102.5°	597.2	539.8	511.5	492.5	511.5	539.8	597.2	667.7	767.9	846.3	868.2
105°	974.0	925.5	891.9	881.0	891.9	925.5	974.0	1022.5	1048.3	1038.1	949.8
107.5°	1149.3	1146.6	1139.9	1125.3	1139.9	1146.6	1149.3	1143.2	1105.3	1024.0	891.0
110°	1178.0	1192.9	1199.9	1199.1	1199.9	1192.9	1178.0	1144.4	1080.3	980.3	840.3



TEST NUMBER: P331659

CATALOG NUMBER: SA2XXRDIP-C485D725U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1155.5	1180.4	1193.7	1197.9	1193.7	1180.4	1155.5	1108.8	1035.3	928.3	794.1
115°	1095.9	1131.9	1152.2	1159.3	1152.2	1131.9	1095.9	1040.4	959.9	857.5	737.1
117.5°	1025.0	1063.0	1084.4	1090.3	1084.4	1063.0	1025.0	968.4	892.9	800.0	694.3
120°	978.7	1015.4	1038.1	1045.9	1038.1	1015.4	978.7	924.0	852.8	770.0	673.0
122.5°	936.8	972.9	993.1	999.6	993.1	972.9	936.8	887.7	823.4	745.0	656.2
125°	884.9	914.6	934.1	940.4	934.1	914.6	884.9	839.5	780.9	712.1	631.6
127.5°	838.8	866.6	883.5	888.5	883.5	866.6	838.8	799.2	745.1	680.2	607.4
130°	810.6	837.2	852.8	859.1	852.8	837.2	810.6	772.3	720.7	659.0	591.7
132.5°	781.9	808.4	822.8	828.4	822.8	808.4	781.9	744.2	695.7	639.0	576.7
135°	736.4	762.2	776.2	779.4	776.2	762.2	736.4	702.7	659.0	607.4	555.8
137.5°	692.0	714.2	726.5	731.2	726.5	714.2	692.0	661.3	623.2	582.2	539.1
140°	661.3	681.6	693.4	698.1	693.4	681.6	661.3	636.3	601.9	566.0	528.4
142.5°	635.1	653.5	664.0	664.9	664.0	653.5	635.1	611.3	582.5	551.6	519.7
145°	598.8	612.1	619.9	622.2	619.9	612.1	598.8	580.0	557.4	533.1	507.3
147.5°	569.1	579.7	585.0	586.4	585.0	579.7	569.1	553.6	537.0	518.1	497.8
150°	550.3	559.7	564.4	565.2	564.4	559.7	550.3	538.6	524.5	508.1	490.9
152.5°	535.3	543.4	546.9	547.0	546.9	543.4	535.3	526.1	513.9	500.0	484.0
155°	515.9	521.4	524.5	523.0	524.5	521.4	515.9	507.3	498.7	487.0	474.5
157.5°	496.5	501.1	502.5	502.5	502.5	501.1	496.5	490.4	483.7	473.9	463.4
160°	484.7	488.6	489.3	489.3	489.3	488.6	484.7	479.2	473.7	465.1	456.5
162.5°	474.0	476.7	477.5	476.8	477.5	476.7	474.0	468.6	464.3	457.0	449.6
165°	456.5	459.6	459.6	458.9	459.6	459.6	456.5	453.4	450.3	444.8	439.3
167.5°	441.7	443.4	443.2	442.3	443.2	443.4	441.7	440.3	437.4	433.7	429.5
170°	432.3	434.6	433.8	432.3	433.8	434.6	432.3	431.5	429.9	426.8	424.5
172.5°	424.8	425.9	425.1	424.2	425.1	425.9	424.8	424.0	423.1	420.6	418.8
175°	415.1	415.9	415.1	413.5	415.1	415.9	415.1	415.1	414.3	413.5	412.7
177.5°	409.0	409.0	408.4	407.1	408.4	409.0	409.0	409.0	409.0	408.4	408.4
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331659

CATALOG NUMBER: SA2XXRDIP-C485D725U835-4F0-1E-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°	9.6	9.8	9.9	9.0	7.9	7.7	7.6	7.5	7.8	8.1	8.8
90°	25.8	26.6	25.8	21.1	15.6	11.7	9.4	7.8	6.3	3.1	0.8
92.5°	85.8	101.6	100.2	78.0	53.2	35.5	28.1	22.8	19.4	13.8	9.5
95°	268.1	306.4	271.3	180.6	112.6	76.6	57.8	45.3	38.3	30.5	27.4
97.5°	548.8	523.1	394.0	243.3	148.5	103.3	82.1	67.7	57.1	48.8	44.6
100°	730.1	617.5	425.2	256.4	161.0	119.6	97.7	82.1	69.6	62.5	60.2
102.5°	797.6	620.7	413.4	257.0	172.3	134.0	112.1	95.8	83.3	76.3	74.6
105°	787.2	579.2	390.1	261.1	191.5	154.8	132.9	115.7	104.0	98.5	95.4
107.5°	718.5	534.8	378.5	271.9	211.2	175.6	153.5	136.5	125.7	120.4	117.9
110°	675.4	513.6	376.0	280.6	224.3	190.0	167.3	150.9	140.7	136.0	132.9



TEST NUMBER: P331659

CATALOG NUMBER: SA2XXRDIP-C485D725U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	645.4	499.8	376.6	290.0	236.9	203.7	180.4	164.6	155.1	149.8	146.6
115°	608.2	484.7	379.9	304.1	256.4	222.8	201.7	186.0	176.7	172.0	168.1
117.5°	584.7	477.3	385.5	319.1	274.4	243.3	221.4	206.4	198.1	193.4	190.3
120°	572.2	472.9	389.3	329.1	286.9	256.4	234.5	218.9	211.8	207.2	204.0
122.5°	561.6	470.4	393.7	337.9	298.8	270.2	247.6	232.0	224.3	219.7	217.2
125°	546.4	465.9	400.2	351.8	316.6	288.4	266.6	250.9	241.5	236.9	234.5
127.5°	532.3	463.2	407.0	364.7	333.2	305.8	283.3	268.3	258.0	251.4	248.3
130°	523.0	462.0	412.0	372.9	343.2	315.8	293.9	278.3	267.3	259.5	256.4
132.5°	515.5	461.4	417.0	381.0	351.9	325.8	303.9	287.7	276.1	267.7	263.9
135°	505.0	460.4	422.9	391.6	364.3	339.3	317.4	299.4	287.7	278.3	275.2
137.5°	497.6	460.3	428.2	399.8	374.3	349.6	329.3	311.4	298.9	289.5	285.8
140°	493.3	459.6	430.7	404.1	379.9	356.5	336.1	318.9	306.4	297.0	293.9
142.5°	488.9	459.6	432.6	407.9	384.3	361.5	342.4	325.8	313.3	304.6	302.0
145°	483.1	458.1	434.6	412.7	390.9	369.7	352.5	336.9	325.2	317.4	314.2
147.5°	477.2	455.3	435.3	415.4	396.2	376.3	361.0	348.0	337.2	329.7	327.4
150°	472.1	453.4	434.6	416.6	398.7	380.7	366.6	354.9	344.7	338.5	336.1
152.5°	467.8	450.3	433.4	417.3	401.2	385.1	372.2	361.1	352.2	346.0	344.9
155°	459.6	444.8	431.5	418.2	404.9	391.6	379.9	371.3	362.7	358.0	357.2
157.5°	452.0	439.2	427.9	418.2	407.6	396.3	386.5	379.6	372.1	368.3	367.6
160°	446.4	435.4	426.0	418.2	408.8	399.4	390.9	384.6	378.3	375.2	374.4
162.5°	441.3	432.3	424.2	417.6	409.5	401.3	394.6	389.0	384.0	380.8	381.3
165°	433.1	426.0	420.6	415.9	410.4	403.4	398.7	394.8	390.1	388.5	389.3
167.5°	424.9	420.6	417.0	414.8	410.2	405.1	402.1	399.3	396.3	394.9	395.9
170°	420.6	417.4	415.1	413.5	409.6	405.7	403.4	401.8	399.4	398.7	400.2
172.5°	416.2	413.7	412.6	411.6	409.0	406.3	404.6	403.7	401.3	401.8	402.7
175°	410.4	409.6	408.8	409.6	408.0	406.5	405.7	405.7	404.1	404.9	405.7
177.5°	407.1	406.5	407.1	408.4	407.1	406.5	406.5	406.5	405.2	405.9	407.1
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331659

CATALOG NUMBER: SA2XXRDIP-C485D725U835-4F0-1E-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°	7.8	6.9	6.9	7.0	7.7	8.5	9.3	10.2	10.7	10.2	10.4
90°	3.1	6.3	7.8	9.4	11.7	15.6	21.1	25.8	26.6	25.8	25.0
92.5°	13.8	19.4	22.8	28.1	35.5	53.2	78.0	100.2	101.6	85.8	68.2
95°	30.5	38.3	45.3	57.8	76.6	112.6	180.6	271.3	306.4	268.1	204.8
97.5°	48.8	57.1	67.7	82.1	103.3	148.5	243.3	394.0	523.1	548.8	477.9
100°	62.5	69.6	82.1	97.7	119.6	161.0	256.4	425.2	617.5	730.1	713.7
102.5°	76.3	83.3	95.8	112.1	134.0	172.3	257.0	413.4	620.7	797.6	868.2
105°	98.5	104.0	115.7	132.9	154.8	191.5	261.1	390.1	579.2	787.2	949.8
107.5°	120.4	125.7	136.5	153.5	175.6	211.2	271.9	378.5	534.8	718.5	891.0
110°	136.0	140.7	150.9	167.3	190.0	224.3	280.6	376.0	513.6	675.4	840.3



TEST NUMBER: P331659

CATALOG NUMBER: SA2XXRDIP-C485D725U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	149.8	155.1	164.6	180.4	203.7	236.9	290.0	376.6	499.8	645.4	794.1
115°	172.0	176.7	186.0	201.7	222.8	256.4	304.1	379.9	484.7	608.2	737.1
117.5°	193.4	198.1	206.4	221.4	243.3	274.4	319.1	385.5	477.3	584.7	694.3
120°	207.2	211.8	218.9	234.5	256.4	286.9	329.1	389.3	472.9	572.2	673.0
122.5°	219.7	224.3	232.0	247.6	270.2	298.8	337.9	393.7	470.4	561.6	656.2
125°	236.9	241.5	250.9	266.6	288.4	316.6	351.8	400.2	465.9	546.4	631.6
127.5°	251.4	258.0	268.3	283.3	305.8	333.2	364.7	407.0	463.2	532.3	607.4
130°	259.5	267.3	278.3	293.9	315.8	343.2	372.9	412.0	462.0	523.0	591.7
132.5°	267.7	276.1	287.7	303.9	325.8	351.9	381.0	417.0	461.4	515.5	576.7
135°	278.3	287.7	299.4	317.4	339.3	364.3	391.6	422.9	460.4	505.0	555.8
137.5°	289.5	298.9	311.4	329.3	349.6	374.3	399.8	428.2	460.3	497.6	539.1
140°	297.0	306.4	318.9	336.1	356.5	379.9	404.1	430.7	459.6	493.3	528.4
142.5°	304.6	313.3	325.8	342.4	361.5	384.3	407.9	432.6	459.6	488.9	519.7
145°	317.4	325.2	336.9	352.5	369.7	390.9	412.7	434.6	458.1	483.1	507.3
147.5°	329.7	337.2	348.0	361.0	376.3	396.2	415.4	435.3	455.3	477.2	497.8
150°	338.5	344.7	354.9	366.6	380.7	398.7	416.6	434.6	453.4	472.1	490.9
152.5°	346.0	352.2	361.1	372.2	385.1	401.2	417.3	433.4	450.3	467.8	484.0
155°	358.0	362.7	371.3	379.9	391.6	404.9	418.2	431.5	444.8	459.6	474.5
157.5°	368.3	372.1	379.6	386.5	396.3	407.6	418.2	427.9	439.2	452.0	463.4
160°	375.2	378.3	384.6	390.9	399.4	408.8	418.2	426.0	435.4	446.4	456.5
162.5°	380.8	384.0	389.0	394.6	401.3	409.5	417.6	424.2	432.3	441.3	449.6
165°	388.5	390.1	394.8	398.7	403.4	410.4	415.9	420.6	426.0	433.1	439.3
167.5°	394.9	396.3	399.3	402.1	405.1	410.2	414.8	417.0	420.6	424.9	429.5
170°	398.7	399.4	401.8	403.4	405.7	409.6	413.5	415.1	417.4	420.6	424.5
172.5°	401.8	401.3	403.7	404.6	406.3	409.0	411.6	412.6	413.7	416.2	418.8
175°	404.9	404.1	405.7	405.7	406.5	408.0	409.6	408.8	409.6	410.4	412.7
177.5°	405.9	405.2	406.5	406.5	406.5	407.1	408.4	407.1	406.5	407.1	408.4
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5



TEST NUMBER: P331659

CATALOG NUMBER: SA2XXRDIP-C485D725U835-4F0-1E-UDD-A4

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°	9.8	10.1	10.2	10.2	10.2	10.2	9.9
90°	23.5	25.0	25.8	25.8	25.8	25.8	25.8
92.5°	58.5	51.9	47.1	46.4	43.9	44.6	43.3
95°	157.1	124.3	107.1	96.9	90.7	88.3	89.1
97.5°	391.0	306.4	250.0	212.6	193.4	182.0	175.4
100°	616.8	509.7	415.1	350.2	316.6	293.9	279.8
102.5°	846.3	767.9	667.7	597.2	539.8	511.5	492.5
105°	1038.1	1048.3	1022.5	974.0	925.5	891.9	881.0
107.5°	1024.0	1105.3	1143.2	1149.3	1146.6	1139.9	1125.3
110°	980.3	1080.3	1144.4	1178.0	1192.9	1199.9	1199.1



TEST NUMBER: P331659

CATALOG NUMBER: SA2XXRDIP-C485D725U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	928.3	1035.3	1108.8	1155.5	1180.4	1193.7	1197.9
115°	857.5	959.9	1040.4	1095.9	1131.9	1152.2	1159.3
117.5°	800.0	892.9	968.4	1025.0	1063.0	1084.4	1090.3
120°	770.0	852.8	924.0	978.7	1015.4	1038.1	1045.9
122.5°	745.0	823.4	887.7	936.8	972.9	993.1	999.6
125°	712.1	780.9	839.5	884.9	914.6	934.1	940.4
127.5°	680.2	745.1	799.2	838.8	866.6	883.5	888.5
130°	659.0	720.7	772.3	810.6	837.2	852.8	859.1
132.5°	639.0	695.7	744.2	781.9	808.4	822.8	828.4
135°	607.4	659.0	702.7	736.4	762.2	776.2	779.4
137.5°	582.2	623.2	661.3	692.0	714.2	726.5	731.2
140°	566.0	601.9	636.3	661.3	681.6	693.4	698.1
142.5°	551.6	582.5	611.3	635.1	653.5	664.0	664.9
145°	533.1	557.4	580.0	598.8	612.1	619.9	622.2
147.5°	518.1	537.0	553.6	569.1	579.7	585.0	586.4
150°	508.1	524.5	538.6	550.3	559.7	564.4	565.2
152.5°	500.0	513.9	526.1	535.3	543.4	546.9	547.0
155°	487.0	498.7	507.3	515.9	521.4	524.5	523.0
157.5°	473.9	483.7	490.4	496.5	501.1	502.5	502.5
160°	465.1	473.7	479.2	484.7	488.6	489.3	489.3
162.5°	457.0	464.3	468.6	474.0	476.7	477.5	476.8
165°	444.8	450.3	453.4	456.5	459.6	459.6	458.9
167.5°	433.7	437.4	440.3	441.7	443.4	443.2	442.3
170°	426.8	429.9	431.5	432.3	434.6	433.8	432.3
172.5°	420.6	423.1	424.0	424.8	425.9	425.1	424.2
175°	413.5	414.3	415.1	415.1	415.9	415.1	413.5
177.5°	408.4	409.0	409.0	409.0	409.0	408.4	407.1
180°	406.5	406.5	406.5	406.5	406.5	406.5	406.5

(END OF REPORT)