

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: P331652

Luminaire Tested: **S122RDIP-S485D530U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331652  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIP-S485D530U835-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 530 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3749.6 lumens  
Efficiency: N/A  
Efficacy: 114.3 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

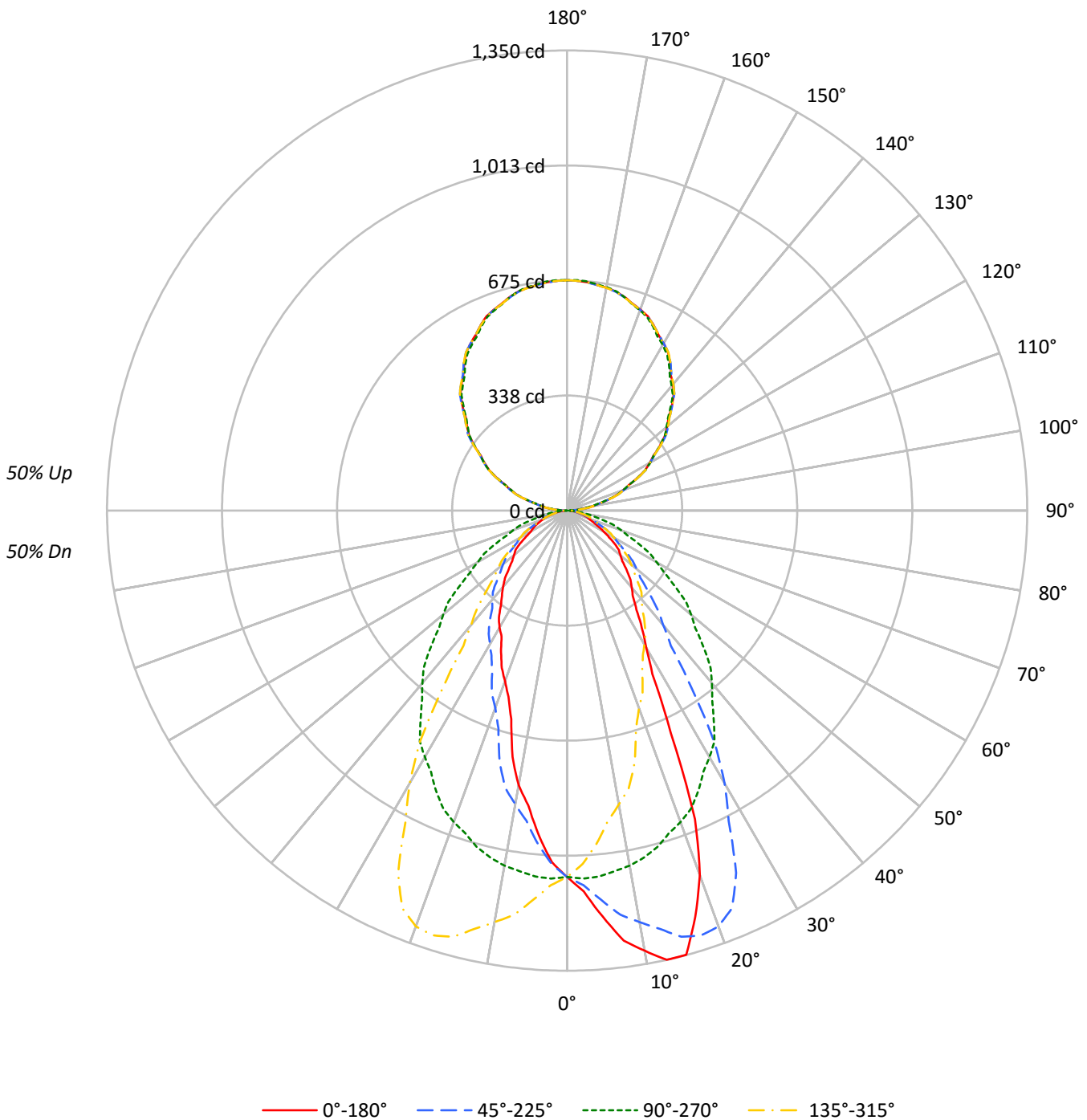
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	91	88	91	87	84	81	74	72	70	62	60	59	50	49	49	43
2	90	83	78	73	83	77	72	68	66	62	59	55	53	50	45	44	42	38
3	83	74	67	62	76	69	63	58	59	54	51	50	46	44	41	39	37	33
4	76	66	59	53	70	62	55	50	53	48	44	45	41	38	37	35	33	29
5	70	59	52	46	65	55	49	44	48	43	39	41	37	34	34	31	29	26
6	65	54	46	40	60	50	43	38	43	38	34	37	33	30	31	28	26	23
7	61	49	41	36	56	46	39	34	40	34	30	34	30	27	29	26	23	21
8	56	45	37	32	52	42	35	31	36	31	27	31	27	24	27	24	21	19
9	53	41	34	29	49	38	32	28	34	28	25	29	25	22	25	22	20	17
10	49	38	31	26	46	35	29	25	31	26	23	27	23	20	23	20	18	16

**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	2.7
10°-20°	283.9	7.6
20°-30°	365.8	9.8
30°-40°	347.6	9.3
40°-50°	297.8	7.9
50°-60°	226.8	6.0
60°-70°	143.4	3.8
70°-80°	71.6	1.9
80°-90°	21.3	0.6
90°-100°	42.8	1.1
100°-110°	133.0	3.5
110°-120°	227.3	6.1
120°-130°	298.9	8.0
130°-140°	335.5	8.9
140°-150°	329.0	8.8
150°-160°	275.9	7.4
160°-170°	183.0	4.9
170°-180°	64.0	1.7
0°-30°	751.6	20.0
0°-40°	1099.2	29.3
0°-60°	1623.8	43.3
0°-90°	1860.1	49.6
90°-120°	403.1	10.8
90°-150°	1366.6	36.4
90°-180°	1889.0	50.4
0°-180°	3749.6	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	9
95°	35	30	35	30	35	39
105°	127	123	127	123	127	133
115°	228	228	228	228	228	225
125°	333	332	333	332	333	297
135°	434	429	434	429	434	334
145°	527	521	527	521	527	329
155°	600	596	600	596	600	276
165°	649	648	649	648	649	183
175°	672	675	672	675	672	64
180°	676	676	676	676	676	



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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°	8.7	8.9	8.9	8.9	8.9	8.9	8.9	9.3	9.0	9.4	8.5
90°	19.4	19.3	19.1	19.0	18.9	18.9	19.2	19.5	19.7	20.0	17.2
92.5°	18.5	18.5	18.4	18.4	18.4	18.3	18.3	18.2	18.2	18.1	17.5
95°	35.4	35.6	35.9	36.1	36.4	36.5	36.5	36.5	36.5	36.5	36.2
97.5°	61.2	61.3	61.3	61.3	61.3	61.4	61.4	61.4	61.4	61.4	60.9
100°	78.1	78.3	78.4	78.5	78.6	78.7	78.7	78.7	78.7	78.7	78.3
102.5°	97.3	97.4	97.5	97.7	97.8	97.8	97.7	97.6	97.5	97.4	96.9
105°	126.6	126.6	126.6	126.6	126.6	126.5	126.2	126.0	125.7	125.5	125.2
107.5°	154.2	154.8	155.4	155.9	156.5	156.8	156.7	156.6	156.5	156.4	156.4
110°	175.6	176.0	176.4	176.8	177.2	177.3	177.3	177.3	177.3	177.3	177.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	196.2	196.4	196.7	197.0	197.3	197.6	197.9	198.2	198.5	198.8	198.9
115°	228.1	228.5	228.9	229.2	229.6	229.9	230.0	230.1	230.3	230.4	230.6
117.5°	258.5	258.9	259.3	259.7	260.1	260.4	260.7	261.0	261.3	261.6	262.3
120°	280.0	280.4	280.8	281.1	281.5	281.7	281.7	281.7	281.7	281.7	282.7
122.5°	301.0	301.3	301.5	301.8	302.1	302.4	302.7	303.0	303.3	303.6	304.3
125°	333.0	333.1	333.3	333.4	333.5	333.8	334.2	334.5	334.9	335.3	335.7
127.5°	362.2	362.6	363.0	363.4	363.8	364.3	364.7	365.2	365.6	366.1	366.6
130°	383.2	383.7	384.2	384.7	385.2	385.6	385.9	386.1	386.4	386.6	386.9
132.5°	403.3	403.7	404.1	404.5	404.9	405.4	405.9	406.5	407.1	407.6	407.6
135°	434.5	434.9	435.3	435.7	436.0	436.3	436.4	436.6	436.7	436.8	436.6
137.5°	462.8	463.3	463.8	464.3	464.8	465.1	465.2	465.3	465.4	465.5	465.2
140°	482.4	482.9	483.4	483.9	484.5	484.7	484.7	484.7	484.7	484.7	484.1
142.5°	500.2	500.7	501.2	501.7	502.2	502.4	502.3	502.2	502.1	502.0	501.6
145°	526.9	527.4	527.9	528.4	528.9	529.1	529.0	528.9	528.7	528.6	527.9
147.5°	550.7	551.2	551.7	552.2	552.7	552.8	552.5	552.2	551.9	551.7	551.1
150°	566.3	566.6	567.0	567.4	567.8	567.8	567.4	567.0	566.6	566.3	565.7
152.5°	580.9	581.3	581.8	582.3	582.8	582.8	582.3	581.8	581.3	580.9	580.2
155°	600.5	600.8	601.2	601.6	602.0	601.9	601.2	600.6	600.0	599.3	598.9
157.5°	617.3	618.0	618.6	619.2	619.8	619.7	618.8	617.9	617.1	616.2	616.0
160°	627.8	628.3	628.9	629.4	629.9	629.7	629.0	628.2	627.5	626.7	626.6
162.5°	637.0	637.6	638.2	638.8	639.4	639.3	638.4	637.5	636.7	635.8	635.7
165°	648.9	649.6	650.2	650.8	651.5	651.3	650.5	649.6	648.7	647.8	647.8
167.5°	658.7	659.4	660.1	660.7	661.4	661.3	660.4	659.5	658.6	657.7	657.7
170°	663.8	664.5	665.3	666.0	666.8	666.7	665.9	665.0	664.1	663.2	663.3
172.5°	667.9	668.6	669.4	670.2	670.9	670.8	670.0	669.1	668.2	667.3	667.4
175°	672.3	673.1	673.8	674.6	675.4	675.3	674.4	673.5	672.6	671.7	672.0
177.5°	674.4	675.0	675.6	676.2	676.8	676.8	676.2	675.6	675.0	674.4	674.6
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7



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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°	8.0	7.7	7.1	6.4	6.4	6.4	7.6	8.8	7.9	7.3	7.0
90°	14.4	11.6	8.8	6.7	5.1	3.6	2.1	0.6	2.1	3.6	5.1
92.5°	16.8	16.2	15.5	14.6	13.5	12.4	11.3	10.2	11.3	12.4	13.5
95°	36.0	35.7	35.5	34.7	33.5	32.2	30.9	29.7	30.9	32.2	33.5
97.5°	60.4	59.9	59.4	58.6	57.5	56.4	55.3	54.2	55.3	56.4	57.5
100°	77.9	77.6	77.2	76.5	75.5	74.4	73.4	72.4	73.4	74.4	75.5
102.5°	96.4	96.0	95.5	94.8	94.0	93.2	92.4	91.6	92.4	93.2	94.0
105°	124.9	124.7	124.4	124.1	123.7	123.4	123.0	122.6	123.0	123.4	123.7
107.5°	156.4	156.4	156.4	156.1	155.5	155.0	154.4	153.9	154.4	155.0	155.5
110°	177.3	177.3	177.3	177.0	176.2	175.4	174.7	173.9	174.7	175.4	176.2





TEST NUMBER: P331652

CATALOG NUMBER: S122RDIP-S485D530U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	199.0	199.1	199.2	198.9	198.1	197.3	196.6	195.8	196.6	197.3	198.1
115°	230.9	231.1	231.4	231.1	230.4	229.6	228.9	228.1	228.9	229.6	230.4
117.5°	263.0	263.8	264.5	264.3	263.3	262.3	261.3	260.3	261.3	262.3	263.3
120°	283.7	284.7	285.8	285.8	284.7	283.7	282.7	281.7	282.7	283.7	284.7
122.5°	305.0	305.7	306.4	306.2	305.0	303.8	302.5	301.3	302.5	303.8	305.0
125°	336.1	336.4	336.8	336.4	335.3	334.2	333.0	331.9	333.0	334.2	335.3
127.5°	367.0	367.5	367.9	367.4	366.0	364.5	363.1	361.6	363.1	364.5	366.0
130°	387.1	387.4	387.6	386.9	385.3	383.6	382.0	380.4	382.0	383.6	385.3
132.5°	407.5	407.5	407.4	406.7	405.4	404.0	402.7	401.3	402.7	404.0	405.4
135°	436.3	436.0	435.8	435.0	433.6	432.2	430.8	429.4	430.8	432.2	433.6
137.5°	464.9	464.6	464.2	463.5	462.4	461.2	460.1	458.9	460.1	461.2	462.4
140°	483.4	482.8	482.2	481.3	480.1	479.0	477.9	476.7	477.9	479.0	480.1
142.5°	501.2	500.8	500.3	499.5	498.4	497.3	496.1	495.0	496.1	497.3	498.4
145°	527.1	526.3	525.6	524.8	523.9	523.0	522.1	521.2	522.1	523.0	523.9
147.5°	550.6	550.1	549.6	548.8	547.8	546.7	545.6	544.6	545.6	546.7	547.8
150°	565.2	564.7	564.2	563.6	562.8	562.1	561.3	560.6	561.3	562.1	562.8
152.5°	579.6	579.0	578.4	577.7	577.0	576.2	575.5	574.7	575.5	576.2	577.0
155°	598.6	598.2	597.8	597.4	597.0	596.7	596.3	595.9	596.3	596.7	597.0
157.5°	615.8	615.5	615.3	615.1	614.8	614.5	614.3	614.0	614.3	614.5	614.8
160°	626.4	626.3	626.2	626.0	625.7	625.5	625.2	625.0	625.2	625.5	625.7
162.5°	635.6	635.4	635.3	635.2	635.2	635.1	635.1	635.0	635.1	635.1	635.2
165°	647.8	647.8	647.8	647.9	648.0	648.1	648.2	648.4	648.2	648.1	648.0
167.5°	657.8	657.8	657.8	658.0	658.4	658.8	659.2	659.5	659.2	658.8	658.4
170°	663.4	663.6	663.7	664.0	664.3	664.7	665.1	665.5	665.1	664.7	664.3
172.5°	667.6	667.7	667.8	668.1	668.4	668.8	669.2	669.6	669.2	668.8	668.4
175°	672.3	672.5	672.8	673.1	673.5	673.8	674.2	674.6	674.2	673.8	673.5
177.5°	674.8	675.0	675.2	675.4	675.7	676.0	676.3	676.7	676.3	676.0	675.7
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7



TEST NUMBER: P331652

CATALOG NUMBER: S122RDIP-S485D530U835-4F0-1E-UDD-A1

**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	7.7	8.2	8.5	8.4	8.1	8.0	8.0	7.7
90°	6.7	8.8	11.6	14.4	17.2	20.0	19.7	19.5	19.2	18.9	18.9
92.5°	14.6	15.5	16.2	16.8	17.5	18.1	18.2	18.2	18.3	18.3	18.4
95°	34.7	35.5	35.7	36.0	36.2	36.5	36.5	36.5	36.5	36.5	36.4
97.5°	58.6	59.4	59.9	60.4	60.9	61.4	61.4	61.4	61.4	61.4	61.3
100°	76.5	77.2	77.6	77.9	78.3	78.7	78.7	78.7	78.7	78.7	78.6
102.5°	94.8	95.5	96.0	96.4	96.9	97.4	97.5	97.6	97.7	97.8	97.8
105°	124.1	124.4	124.7	124.9	125.2	125.5	125.7	126.0	126.2	126.5	126.6
107.5°	156.1	156.4	156.4	156.4	156.4	156.4	156.5	156.6	156.7	156.8	156.5
110°	177.0	177.3	177.3	177.3	177.3	177.3	177.3	177.3	177.3	177.3	177.2



TEST NUMBER: P331652

CATALOG NUMBER: S122RDIP-S485D530U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	198.9	199.2	199.1	199.0	198.9	198.8	198.5	198.2	197.9	197.6	197.3
115°	231.1	231.4	231.1	230.9	230.6	230.4	230.3	230.1	230.0	229.9	229.6
117.5°	264.3	264.5	263.8	263.0	262.3	261.6	261.3	261.0	260.7	260.4	260.1
120°	285.8	285.8	284.7	283.7	282.7	281.7	281.7	281.7	281.7	281.7	281.5
122.5°	306.2	306.4	305.7	305.0	304.3	303.6	303.3	303.0	302.7	302.4	302.1
125°	336.4	336.8	336.4	336.1	335.7	335.3	334.9	334.5	334.2	333.8	333.5
127.5°	367.4	367.9	367.5	367.0	366.6	366.1	365.6	365.2	364.7	364.3	363.8
130°	386.9	387.6	387.4	387.1	386.9	386.6	386.4	386.1	385.9	385.6	385.2
132.5°	406.7	407.4	407.5	407.5	407.6	407.6	407.1	406.5	405.9	405.4	404.9
135°	435.0	435.8	436.0	436.3	436.6	436.8	436.7	436.6	436.4	436.3	436.0
137.5°	463.5	464.2	464.6	464.9	465.2	465.5	465.4	465.3	465.2	465.1	464.8
140°	481.3	482.2	482.8	483.4	484.1	484.7	484.7	484.7	484.7	484.7	484.5
142.5°	499.5	500.3	500.8	501.2	501.6	502.0	502.1	502.2	502.3	502.4	502.2
145°	524.8	525.6	526.3	527.1	527.9	528.6	528.7	528.9	529.0	529.1	528.9
147.5°	548.8	549.6	550.1	550.6	551.1	551.7	551.9	552.2	552.5	552.8	552.7
150°	563.6	564.2	564.7	565.2	565.7	566.3	566.6	567.0	567.4	567.8	567.8
152.5°	577.7	578.4	579.0	579.6	580.2	580.9	581.3	581.8	582.3	582.8	582.8
155°	597.4	597.8	598.2	598.6	598.9	599.3	600.0	600.6	601.2	601.9	602.0
157.5°	615.1	615.3	615.5	615.8	616.0	616.2	617.1	617.9	618.8	619.7	619.8
160°	626.0	626.2	626.3	626.4	626.6	626.7	627.5	628.2	629.0	629.7	629.9
162.5°	635.2	635.3	635.4	635.6	635.7	635.8	636.7	637.5	638.4	639.3	639.4
165°	647.9	647.8	647.8	647.8	647.8	647.8	648.7	649.6	650.5	651.3	651.5
167.5°	658.0	657.8	657.8	657.8	657.7	657.7	658.6	659.5	660.4	661.3	661.4
170°	664.0	663.7	663.6	663.4	663.3	663.2	664.1	665.0	665.9	666.7	666.8
172.5°	668.1	667.8	667.7	667.6	667.4	667.3	668.2	669.1	670.0	670.8	670.9
175°	673.1	672.8	672.5	672.3	672.0	671.7	672.6	673.5	674.4	675.3	675.4
177.5°	675.4	675.2	675.0	674.8	674.6	674.4	675.0	675.6	676.2	676.8	676.8
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7



TEST NUMBER: P331652

CATALOG NUMBER: S122RDIP-S485D530U835-4F0-1E-UDD-A1

**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°	7.7	7.4	7.7	7.5	7.7	7.4	7.7	7.7	8.0	8.0	8.1
90°	19.0	19.1	19.3	19.4	19.3	19.1	19.0	18.9	18.9	19.2	19.5
92.5°	18.4	18.4	18.5	18.5	18.5	18.4	18.4	18.4	18.3	18.3	18.2
95°	36.1	35.9	35.6	35.4	35.6	35.9	36.1	36.4	36.5	36.5	36.5
97.5°	61.3	61.3	61.3	61.2	61.3	61.3	61.3	61.3	61.4	61.4	61.4
100°	78.5	78.4	78.3	78.1	78.3	78.4	78.5	78.6	78.7	78.7	78.7
102.5°	97.7	97.5	97.4	97.3	97.4	97.5	97.7	97.8	97.8	97.7	97.6
105°	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.5	126.2	126.0
107.5°	155.9	155.4	154.8	154.2	154.8	155.4	155.9	156.5	156.8	156.7	156.6
110°	176.8	176.4	176.0	175.6	176.0	176.4	176.8	177.2	177.3	177.3	177.3



TEST NUMBER: P331652

CATALOG NUMBER: S122RDIP-S485D530U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	197.0	196.7	196.4	196.2	196.4	196.7	197.0	197.3	197.6	197.9	198.2
115°	229.2	228.9	228.5	228.1	228.5	228.9	229.2	229.6	229.9	230.0	230.1
117.5°	259.7	259.3	258.9	258.5	258.9	259.3	259.7	260.1	260.4	260.7	261.0
120°	281.1	280.8	280.4	280.0	280.4	280.8	281.1	281.5	281.7	281.7	281.7
122.5°	301.8	301.5	301.3	301.0	301.3	301.5	301.8	302.1	302.4	302.7	303.0
125°	333.4	333.3	333.1	333.0	333.1	333.3	333.4	333.5	333.8	334.2	334.5
127.5°	363.4	363.0	362.6	362.2	362.6	363.0	363.4	363.8	364.3	364.7	365.2
130°	384.7	384.2	383.7	383.2	383.7	384.2	384.7	385.2	385.6	385.9	386.1
132.5°	404.5	404.1	403.7	403.3	403.7	404.1	404.5	404.9	405.4	405.9	406.5
135°	435.7	435.3	434.9	434.5	434.9	435.3	435.7	436.0	436.3	436.4	436.6
137.5°	464.3	463.8	463.3	462.8	463.3	463.8	464.3	464.8	465.1	465.2	465.3
140°	483.9	483.4	482.9	482.4	482.9	483.4	483.9	484.5	484.7	484.7	484.7
142.5°	501.7	501.2	500.7	500.2	500.7	501.2	501.7	502.2	502.4	502.3	502.2
145°	528.4	527.9	527.4	526.9	527.4	527.9	528.4	528.9	529.1	529.0	528.9
147.5°	552.2	551.7	551.2	550.7	551.2	551.7	552.2	552.7	552.8	552.5	552.2
150°	567.4	567.0	566.6	566.3	566.6	567.0	567.4	567.8	567.8	567.4	567.0
152.5°	582.3	581.8	581.3	580.9	581.3	581.8	582.3	582.8	582.8	582.3	581.8
155°	601.6	601.2	600.8	600.5	600.8	601.2	601.6	602.0	601.9	601.2	600.6
157.5°	619.2	618.6	618.0	617.3	618.0	618.6	619.2	619.8	619.7	618.8	617.9
160°	629.4	628.9	628.3	627.8	628.3	628.9	629.4	629.9	629.7	629.0	628.2
162.5°	638.8	638.2	637.6	637.0	637.6	638.2	638.8	639.4	639.3	638.4	637.5
165°	650.8	650.2	649.6	648.9	649.6	650.2	650.8	651.5	651.3	650.5	649.6
167.5°	660.7	660.1	659.4	658.7	659.4	660.1	660.7	661.4	661.3	660.4	659.5
170°	666.0	665.3	664.5	663.8	664.5	665.3	666.0	666.8	666.7	665.9	665.0
172.5°	670.2	669.4	668.6	667.9	668.6	669.4	670.2	670.9	670.8	670.0	669.1
175°	674.6	673.8	673.1	672.3	673.1	673.8	674.6	675.4	675.3	674.4	673.5
177.5°	676.2	675.6	675.0	674.4	675.0	675.6	676.2	676.8	676.8	676.2	675.6
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7



TEST NUMBER: P331652

CATALOG NUMBER: S122RDIP-S485D530U835-4F0-1E-UDD-A1

**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°	8.4	8.5	8.2	7.7	7.1	7.1	7.0	7.0	7.3	7.9	8.8
90°	19.7	20.0	17.2	14.4	11.6	8.8	6.7	5.1	3.6	2.1	0.6
92.5°	18.2	18.1	17.5	16.8	16.2	15.5	14.6	13.5	12.4	11.3	10.2
95°	36.5	36.5	36.2	36.0	35.7	35.5	34.7	33.5	32.2	30.9	29.7
97.5°	61.4	61.4	60.9	60.4	59.9	59.4	58.6	57.5	56.4	55.3	54.2
100°	78.7	78.7	78.3	77.9	77.6	77.2	76.5	75.5	74.4	73.4	72.4
102.5°	97.5	97.4	96.9	96.4	96.0	95.5	94.8	94.0	93.2	92.4	91.6
105°	125.7	125.5	125.2	124.9	124.7	124.4	124.1	123.7	123.4	123.0	122.6
107.5°	156.5	156.4	156.4	156.4	156.4	156.4	156.1	155.5	155.0	154.4	153.9
110°	177.3	177.3	177.3	177.3	177.3	177.3	177.0	176.2	175.4	174.7	173.9



TEST NUMBER: P331652

CATALOG NUMBER: S122RDIP-S485D530U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	198.5	198.8	198.9	199.0	199.1	199.2	198.9	198.1	197.3	196.6	195.8
115°	230.3	230.4	230.6	230.9	231.1	231.4	231.1	230.4	229.6	228.9	228.1
117.5°	261.3	261.6	262.3	263.0	263.8	264.5	264.3	263.3	262.3	261.3	260.3
120°	281.7	281.7	282.7	283.7	284.7	285.8	285.8	284.7	283.7	282.7	281.7
122.5°	303.3	303.6	304.3	305.0	305.7	306.4	306.2	305.0	303.8	302.5	301.3
125°	334.9	335.3	335.7	336.1	336.4	336.8	336.4	335.3	334.2	333.0	331.9
127.5°	365.6	366.1	366.6	367.0	367.5	367.9	367.4	366.0	364.5	363.1	361.6
130°	386.4	386.6	386.9	387.1	387.4	387.6	386.9	385.3	383.6	382.0	380.4
132.5°	407.1	407.6	407.6	407.5	407.5	407.4	406.7	405.4	404.0	402.7	401.3
135°	436.7	436.8	436.6	436.3	436.0	435.8	435.0	433.6	432.2	430.8	429.4
137.5°	465.4	465.5	465.2	464.9	464.6	464.2	463.5	462.4	461.2	460.1	458.9
140°	484.7	484.7	484.1	483.4	482.8	482.2	481.3	480.1	479.0	477.9	476.7
142.5°	502.1	502.0	501.6	501.2	500.8	500.3	499.5	498.4	497.3	496.1	495.0
145°	528.7	528.6	527.9	527.1	526.3	525.6	524.8	523.9	523.0	522.1	521.2
147.5°	551.9	551.7	551.1	550.6	550.1	549.6	548.8	547.8	546.7	545.6	544.6
150°	566.6	566.3	565.7	565.2	564.7	564.2	563.6	562.8	562.1	561.3	560.6
152.5°	581.3	580.9	580.2	579.6	579.0	578.4	577.7	577.0	576.2	575.5	574.7
155°	600.0	599.3	598.9	598.6	598.2	597.8	597.4	597.0	596.7	596.3	595.9
157.5°	617.1	616.2	616.0	615.8	615.5	615.3	615.1	614.8	614.5	614.3	614.0
160°	627.5	626.7	626.6	626.4	626.3	626.2	626.0	625.7	625.5	625.2	625.0
162.5°	636.7	635.8	635.7	635.6	635.4	635.3	635.2	635.2	635.1	635.1	635.0
165°	648.7	647.8	647.8	647.8	647.8	647.8	647.9	648.0	648.1	648.2	648.4
167.5°	658.6	657.7	657.7	657.8	657.8	657.8	658.0	658.4	658.8	659.2	659.5
170°	664.1	663.2	663.3	663.4	663.6	663.7	664.0	664.3	664.7	665.1	665.5
172.5°	668.2	667.3	667.4	667.6	667.7	667.8	668.1	668.4	668.8	669.2	669.6
175°	672.6	671.7	672.0	672.3	672.5	672.8	673.1	673.5	673.8	674.2	674.6
177.5°	675.0	674.4	674.6	674.8	675.0	675.2	675.4	675.7	676.0	676.3	676.7
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7



TEST NUMBER: P331652

CATALOG NUMBER: S122RDIP-S485D530U835-4F0-1E-UDD-A1

**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	6.4	6.4	6.4	7.1	7.7	8.0	8.5	9.4	9.0	9.3
90°	2.1	3.6	5.1	6.7	8.8	11.6	14.4	17.2	20.0	19.7	19.5
92.5°	11.3	12.4	13.5	14.6	15.5	16.2	16.8	17.5	18.1	18.2	18.2
95°	30.9	32.2	33.5	34.7	35.5	35.7	36.0	36.2	36.5	36.5	36.5
97.5°	55.3	56.4	57.5	58.6	59.4	59.9	60.4	60.9	61.4	61.4	61.4
100°	73.4	74.4	75.5	76.5	77.2	77.6	77.9	78.3	78.7	78.7	78.7
102.5°	92.4	93.2	94.0	94.8	95.5	96.0	96.4	96.9	97.4	97.5	97.6
105°	123.0	123.4	123.7	124.1	124.4	124.7	124.9	125.2	125.5	125.7	126.0
107.5°	154.4	155.0	155.5	156.1	156.4	156.4	156.4	156.4	156.4	156.5	156.6
110°	174.7	175.4	176.2	177.0	177.3	177.3	177.3	177.3	177.3	177.3	177.3





TEST NUMBER: P331652

CATALOG NUMBER: S122RDIP-S485D530U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	196.6	197.3	198.1	198.9	199.2	199.1	199.0	198.9	198.8	198.5	198.2
115°	228.9	229.6	230.4	231.1	231.4	231.1	230.9	230.6	230.4	230.3	230.1
117.5°	261.3	262.3	263.3	264.3	264.5	263.8	263.0	262.3	261.6	261.3	261.0
120°	282.7	283.7	284.7	285.8	285.8	284.7	283.7	282.7	281.7	281.7	281.7
122.5°	302.5	303.8	305.0	306.2	306.4	305.7	305.0	304.3	303.6	303.3	303.0
125°	333.0	334.2	335.3	336.4	336.8	336.4	336.1	335.7	335.3	334.9	334.5
127.5°	363.1	364.5	366.0	367.4	367.9	367.5	367.0	366.6	366.1	365.6	365.2
130°	382.0	383.6	385.3	386.9	387.6	387.4	387.1	386.9	386.6	386.4	386.1
132.5°	402.7	404.0	405.4	406.7	407.4	407.5	407.5	407.6	407.6	407.1	406.5
135°	430.8	432.2	433.6	435.0	435.8	436.0	436.3	436.6	436.8	436.7	436.6
137.5°	460.1	461.2	462.4	463.5	464.2	464.6	464.9	465.2	465.5	465.4	465.3
140°	477.9	479.0	480.1	481.3	482.2	482.8	483.4	484.1	484.7	484.7	484.7
142.5°	496.1	497.3	498.4	499.5	500.3	500.8	501.2	501.6	502.0	502.1	502.2
145°	522.1	523.0	523.9	524.8	525.6	526.3	527.1	527.9	528.6	528.7	528.9
147.5°	545.6	546.7	547.8	548.8	549.6	550.1	550.6	551.1	551.7	551.9	552.2
150°	561.3	562.1	562.8	563.6	564.2	564.7	565.2	565.7	566.3	566.6	567.0
152.5°	575.5	576.2	577.0	577.7	578.4	579.0	579.6	580.2	580.9	581.3	581.8
155°	596.3	596.7	597.0	597.4	597.8	598.2	598.6	598.9	599.3	600.0	600.6
157.5°	614.3	614.5	614.8	615.1	615.3	615.5	615.8	616.0	616.2	617.1	617.9
160°	625.2	625.5	625.7	626.0	626.2	626.3	626.4	626.6	626.7	627.5	628.2
162.5°	635.1	635.1	635.2	635.2	635.3	635.4	635.6	635.7	635.8	636.7	637.5
165°	648.2	648.1	648.0	647.9	647.8	647.8	647.8	647.8	647.8	648.7	649.6
167.5°	659.2	658.8	658.4	658.0	657.8	657.8	657.8	657.7	657.7	658.6	659.5
170°	665.1	664.7	664.3	664.0	663.7	663.6	663.4	663.3	663.2	664.1	665.0
172.5°	669.2	668.8	668.4	668.1	667.8	667.7	667.6	667.4	667.3	668.2	669.1
175°	674.2	673.8	673.5	673.1	672.8	672.5	672.3	672.0	671.7	672.6	673.5
177.5°	676.3	676.0	675.7	675.4	675.2	675.0	674.8	674.6	674.4	675.0	675.6
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7	675.7



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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°	8.9	8.9	8.9	8.9	8.9	8.9	8.7
90°	19.2	18.9	18.9	19.0	19.1	19.3	19.4
92.5°	18.3	18.3	18.4	18.4	18.4	18.5	18.5
95°	36.5	36.5	36.4	36.1	35.9	35.6	35.4
97.5°	61.4	61.4	61.3	61.3	61.3	61.3	61.2
100°	78.7	78.7	78.6	78.5	78.4	78.3	78.1
102.5°	97.7	97.8	97.8	97.7	97.5	97.4	97.3
105°	126.2	126.5	126.6	126.6	126.6	126.6	126.6
107.5°	156.7	156.8	156.5	155.9	155.4	154.8	154.2
110°	177.3	177.3	177.2	176.8	176.4	176.0	175.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	197.9	197.6	197.3	197.0	196.7	196.4	196.2
115°	230.0	229.9	229.6	229.2	228.9	228.5	228.1
117.5°	260.7	260.4	260.1	259.7	259.3	258.9	258.5
120°	281.7	281.7	281.5	281.1	280.8	280.4	280.0
122.5°	302.7	302.4	302.1	301.8	301.5	301.3	301.0
125°	334.2	333.8	333.5	333.4	333.3	333.1	333.0
127.5°	364.7	364.3	363.8	363.4	363.0	362.6	362.2
130°	385.9	385.6	385.2	384.7	384.2	383.7	383.2
132.5°	405.9	405.4	404.9	404.5	404.1	403.7	403.3
135°	436.4	436.3	436.0	435.7	435.3	434.9	434.5
137.5°	465.2	465.1	464.8	464.3	463.8	463.3	462.8
140°	484.7	484.7	484.5	483.9	483.4	482.9	482.4
142.5°	502.3	502.4	502.2	501.7	501.2	500.7	500.2
145°	529.0	529.1	528.9	528.4	527.9	527.4	526.9
147.5°	552.5	552.8	552.7	552.2	551.7	551.2	550.7
150°	567.4	567.8	567.8	567.4	567.0	566.6	566.3
152.5°	582.3	582.8	582.8	582.3	581.8	581.3	580.9
155°	601.2	601.9	602.0	601.6	601.2	600.8	600.5
157.5°	618.8	619.7	619.8	619.2	618.6	618.0	617.3
160°	629.0	629.7	629.9	629.4	628.9	628.3	627.8
162.5°	638.4	639.3	639.4	638.8	638.2	637.6	637.0
165°	650.5	651.3	651.5	650.8	650.2	649.6	648.9
167.5°	660.4	661.3	661.4	660.7	660.1	659.4	658.7
170°	665.9	666.7	666.8	666.0	665.3	664.5	663.8
172.5°	670.0	670.8	670.9	670.2	669.4	668.6	667.9
175°	674.4	675.3	675.4	674.6	673.8	673.1	672.3
177.5°	676.2	676.8	676.8	676.2	675.6	675.0	674.4
180°	675.7	675.7	675.7	675.7	675.7	675.7	675.7

(END OF REPORT)