

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: P331786-840

Luminaire Tested: **S122RDIW-S485D435U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331786-840  
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: S122RDIW-S485D435U840-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3393.9 lumens  
Efficiency: N/A  
Efficacy: 112.4 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

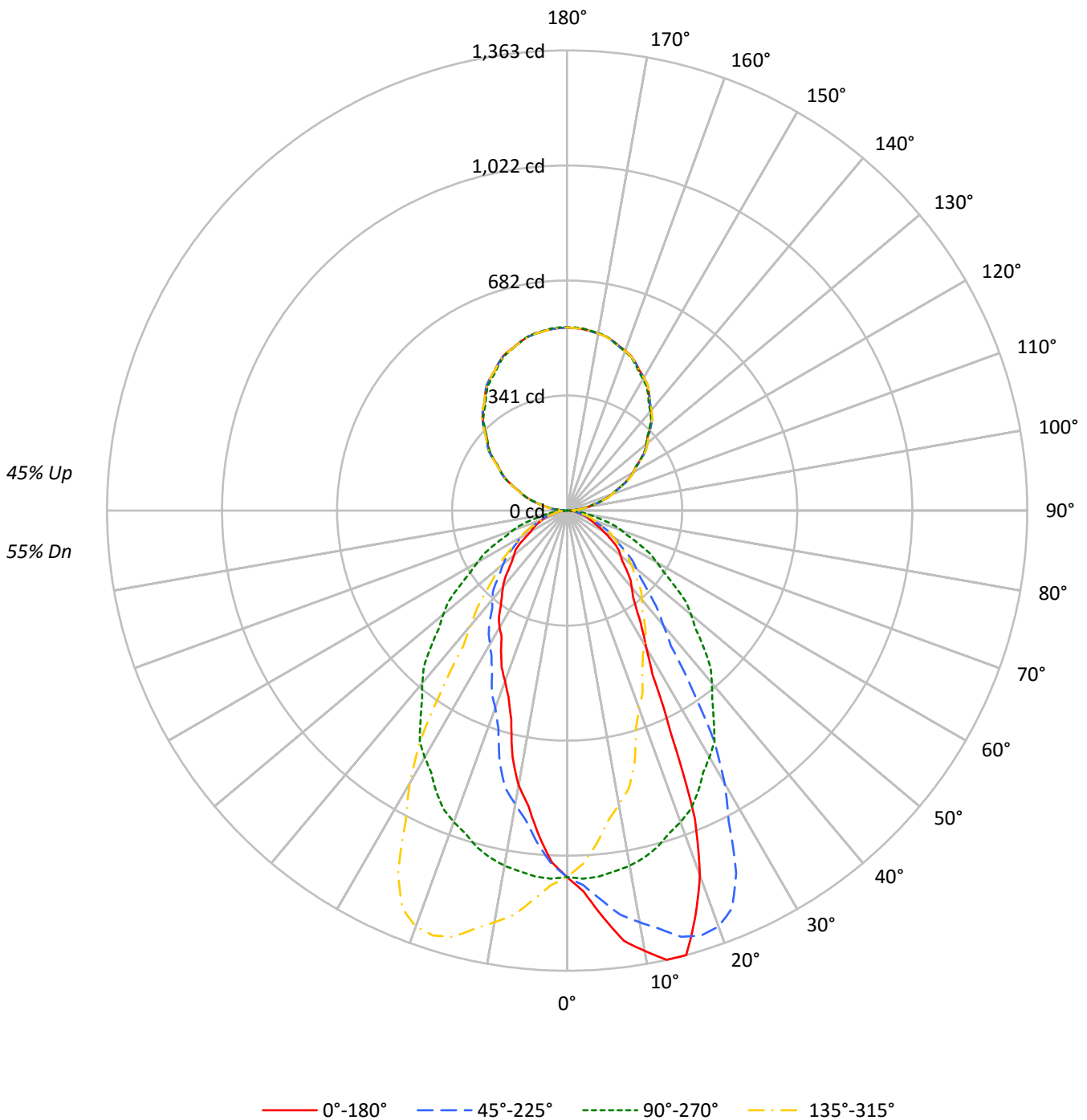
Input Watts (W): 30.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	100	96	92	89	93	89	86	83	77	75	73	66	64	63	55	54	53	48
2	92	85	79	74	85	79	74	70	68	65	62	59	56	54	50	48	46	42
3	84	75	68	63	78	70	64	60	61	57	53	53	49	47	45	42	40	37
4	78	67	60	54	72	63	57	51	55	50	46	48	44	41	41	38	36	32
5	72	61	53	47	67	57	50	45	50	45	40	43	39	36	37	34	32	29
6	66	55	47	42	62	52	45	40	45	40	36	40	35	32	34	31	29	26
7	62	50	42	37	57	47	40	35	42	36	32	36	32	29	32	28	26	23
8	57	46	38	33	54	43	36	32	38	33	29	34	29	26	29	26	24	21
9	54	42	35	30	50	40	33	29	35	30	26	31	27	24	27	24	22	19
10	50	39	32	27	47	37	30	26	33	28	24	29	25	22	26	22	20	18

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	17525	17525	17525	17525
5°	19571	17634	15635	17634
10°	21713	17510	13554	17510
15°	22781	17254	10678	17254
20°	19749	16873	9241	16873
25°	12953	16352	8250	16352
30°	8720	15720	7467	15720
35°	7062	14927	6733	14927
40°	6279	14060	6232	14060
45°	5683	13047	5562	13047
50°	5172	12039	5152	12039
55°	4861	10925	4799	10925
60°	4066	9901	4017	9901
65°	3431	8989	3889	8989
70°	3172	8030	3668	8030
75°	2969	6987	3387	6987
80°	2734	5746	3013	5746
85°	2501	4539	2649	4539



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.9	3.0
10°-20°	286.7	8.4
20°-30°	369.4	10.9
30°-40°	351.1	10.3
40°-50°	300.7	8.9
50°-60°	229.0	6.7
60°-70°	144.8	4.3
70°-80°	72.3	2.1
80°-90°	21.0	0.6
90°-100°	34.4	1.0
100°-110°	106.7	3.1
110°-120°	182.4	5.4
120°-130°	239.9	7.1
130°-140°	269.2	7.9
140°-150°	263.9	7.8
150°-160°	221.4	6.5
160°-170°	146.8	4.3
170°-180°	51.3	1.5
0°-30°	759.0	22.4
0°-40°	1110.1	32.7
0°-60°	1639.8	48.3
0°-90°	1877.9	55.3
90°-120°	323.4	9.5
90°-150°	1096.4	32.3
90°-180°	1516.0	44.7
0°-180°	3393.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1085	1085	1085	1085	1085	
5°	1208	1088	965	1088	1208	119
15°	1363	1032	639	1032	1363	368
25°	727	918	463	918	727	345
35°	358	757	342	757	358	229
45°	249	571	244	571	249	193
55°	173	388	170	388	173	152
65°	90	235	102	235	90	91
75°	48	112	54	112	48	50
85°	14	24	14	24	14	15
90°	16	0	16	0	16	7
95°	28	24	28	24	28	32
105°	102	98	102	98	102	107
115°	183	183	183	183	183	181
125°	267	266	267	266	267	238
135°	349	345	349	345	349	268
145°	423	418	423	418	423	264
155°	482	478	482	478	482	222
165°	521	520	521	520	521	147
175°	540	541	540	541	540	51
180°	542	542	542	542	542	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1129.4	1130.3	1131.3	1129.1	1129.1	1127.3	1123.4	1120.3	1111.9	1110.6	1110.6
5°	1207.5	1206.8	1208.3	1203.4	1196.6	1195.1	1187.9	1178.5	1168.7	1157.7	1155.5
7.5°	1285.3	1284.1	1281.1	1280.2	1275.1	1263.6	1252.1	1239.8	1223.6	1207.6	1199.6
10°	1324.4	1336.9	1329.4	1316.2	1318.8	1301.1	1291.6	1275.5	1261.8	1238.1	1232.8
12.5°	1363.0	1368.0	1365.5	1358.1	1354.7	1342.4	1329.7	1315.6	1290.5	1269.2	1250.6
15°	1362.9	1370.1	1372.0	1369.7	1371.6	1370.8	1364.0	1352.3	1330.5	1307.1	1286.8
17.5°	1262.3	1267.3	1279.6	1288.0	1298.6	1320.9	1331.9	1336.3	1332.9	1319.6	1305.3
20°	1149.4	1141.1	1175.9	1193.6	1208.7	1246.4	1278.8	1291.2	1311.2	1310.9	1307.1
22.5°	989.6	991.5	1024.4	1045.4	1089.5	1127.2	1164.2	1211.0	1249.7	1275.3	1290.2
25°	727.1	741.4	774.3	802.8	851.9	922.1	985.8	1059.8	1129.4	1184.6	1237.0
27.5°	546.0	547.1	573.1	599.7	628.7	686.2	766.5	854.7	954.2	1036.2	1130.6
30°	467.7	465.3	476.4	492.5	517.5	561.9	622.3	709.0	808.2	931.9	1042.0
32.5°	412.1	412.2	420.5	432.5	453.1	483.1	524.5	594.9	688.7	810.3	939.4
35°	358.3	357.9	364.0	372.6	381.2	400.5	428.8	465.7	530.3	643.8	775.8
37.5°	319.6	321.3	324.3	329.7	339.2	349.9	367.0	391.7	437.7	504.8	615.7
40°	297.9	298.7	302.9	307.4	313.1	321.3	335.3	355.3	388.8	442.3	523.4
42.5°	278.0	278.7	281.8	285.9	290.3	298.7	310.2	327.5	354.8	396.5	463.4
45°	248.9	248.9	251.6	253.4	258.3	265.9	275.3	289.6	308.5	339.4	384.0
47.5°	221.6	221.7	223.4	226.6	229.7	235.6	244.9	256.6	270.3	294.3	332.2
50°	205.9	206.3	207.4	210.1	212.0	217.2	224.4	234.6	248.9	267.4	299.0
52.5°	193.2	193.0	194.4	195.6	196.8	200.7	206.0	215.0	227.8	243.9	270.1
55°	172.7	171.2	173.5	175.3	176.5	178.0	181.0	186.7	197.6	211.2	230.8
57.5°	147.0	146.4	148.0	149.8	153.3	157.4	160.0	163.6	169.3	178.9	198.4
60°	125.9	125.9	129.4	130.5	134.6	139.9	145.2	148.2	153.9	160.3	174.6
62.5°	107.2	107.6	109.2	110.3	112.6	119.1	126.5	133.1	138.5	144.6	154.1
65°	89.8	90.5	90.5	91.3	92.8	94.3	97.3	102.6	112.0	120.7	127.8
67.5°	76.1	76.4	76.6	77.4	77.8	79.4	80.6	83.0	85.1	93.4	102.3
70°	67.2	68.3	67.9	68.7	69.0	69.8	71.3	72.4	75.8	77.7	83.0
72.5°	58.7	59.5	59.5	59.9	60.9	61.0	62.2	63.3	65.5	67.2	70.0
75°	47.6	47.2	47.6	48.3	48.7	49.0	49.0	50.5	51.7	53.2	55.0
77.5°	36.7	37.1	37.0	37.1	37.1	37.8	37.7	38.4	39.5	40.3	41.2
80°	29.4	29.8	29.4	29.8	30.2	30.5	30.2	30.5	31.7	32.4	32.4
82.5°	22.8	22.8	23.1	23.1	23.2	23.3	23.8	23.9	24.7	24.5	24.8
85°	13.5	13.2	13.2	13.2	13.5	13.9	13.5	13.5	13.9	13.9	13.9
87.5°	8.0	8.2	8.2	8.2	8.2	8.2	8.2	8.6	8.3	8.6	7.9
90°	15.6	15.5	15.3	15.2	15.1	15.2	15.5	15.7	15.9	16.1	13.7
92.5°	14.8	14.8	14.7	14.7	14.7	14.7	14.6	14.6	14.5	14.5	14.0
95°	28.4	28.6	28.8	29.0	29.2	29.3	29.3	29.3	29.3	29.3	29.1
97.5°	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	48.9
100°	62.7	62.8	62.9	63.0	63.1	63.1	63.1	63.1	63.1	63.1	62.8
102.5°	78.1	78.2	78.3	78.4	78.5	78.5	78.4	78.3	78.3	78.2	77.8
105°	101.6	101.6	101.6	101.6	101.6	101.5	101.3	101.1	100.9	100.7	100.5
107.5°	123.7	124.2	124.6	125.1	125.6	125.8	125.7	125.6	125.5	125.4	125.4
110°	140.9	141.2	141.5	141.8	142.1	142.3	142.3	142.3	142.3	142.3	142.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	157.4	157.6	157.8	158.0	158.2	158.5	158.8	159.1	159.3	159.5	159.6
115°	183.0	183.3	183.6	183.9	184.2	184.4	184.5	184.6	184.7	184.8	185.0
117.5°	207.4	207.7	208.0	208.3	208.6	208.9	209.1	209.4	209.6	210.0	210.5
120°	224.7	225.0	225.3	225.6	225.9	226.0	226.0	226.0	226.0	226.0	226.8
122.5°	241.5	241.7	242.0	242.2	242.4	242.6	242.9	243.1	243.4	243.6	244.2
125°	267.2	267.3	267.4	267.5	267.6	267.8	268.1	268.4	268.7	269.0	269.3
127.5°	290.6	290.9	291.2	291.5	292.0	292.3	292.7	293.0	293.4	293.8	294.1
130°	307.5	307.9	308.3	308.7	309.1	309.4	309.6	309.8	310.0	310.2	310.4
132.5°	323.6	323.9	324.2	324.6	324.9	325.3	325.7	326.2	326.6	327.0	327.0
135°	348.6	348.9	349.2	349.5	349.8	350.0	350.1	350.2	350.3	350.4	350.2
137.5°	371.3	371.7	372.1	372.5	372.9	373.2	373.2	373.3	373.4	373.5	373.2
140°	387.1	387.5	387.9	388.3	388.7	388.9	388.9	388.9	388.9	388.9	388.4
142.5°	401.3	401.7	402.1	402.5	402.9	403.1	403.0	402.9	402.9	402.8	402.4
145°	422.7	423.1	423.5	423.9	424.3	424.5	424.4	424.3	424.2	424.1	423.5
147.5°	441.9	442.2	442.6	443.0	443.4	443.5	443.3	443.0	442.8	442.6	442.2
150°	454.3	454.6	454.9	455.2	455.6	455.6	455.2	454.9	454.6	454.3	453.9
152.5°	466.1	466.5	466.8	467.2	467.6	467.6	467.2	466.8	466.5	466.1	465.5
155°	481.8	482.1	482.4	482.7	483.0	482.9	482.4	481.9	481.4	480.9	480.6
157.5°	495.3	495.8	496.2	496.8	497.3	497.2	496.4	495.7	495.1	494.4	494.2
160°	503.7	504.1	504.5	504.9	505.3	505.2	504.6	504.0	503.4	502.8	502.7
162.5°	511.1	511.5	512.0	512.5	513.0	512.9	512.2	511.5	510.8	510.2	510.1
165°	520.7	521.2	521.7	522.2	522.7	522.6	521.9	521.2	520.5	519.8	519.8
167.5°	528.6	529.1	529.6	530.1	530.7	530.6	529.9	529.2	528.5	527.8	527.8
170°	532.6	533.2	533.8	534.4	535.0	534.9	534.2	533.5	532.8	532.1	532.2
172.5°	535.8	536.4	537.0	537.7	538.3	538.3	537.6	536.8	536.1	535.4	535.5
175°	539.5	540.1	540.7	541.3	541.9	541.8	541.1	540.4	539.7	539.0	539.2
177.5°	541.1	541.6	542.1	542.5	543.0	543.0	542.5	542.1	541.6	541.1	541.2
180°	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1111.3	1108.9	1106.8	1101.4	1098.6	1092.6	1091.7	1091.4	1083.6	1076.0	1073.9
5°	1149.4	1143.5	1134.4	1123.8	1112.9	1101.6	1094.0	1088.0	1072.9	1058.5	1050.3
7.5°	1187.9	1175.0	1159.3	1139.3	1122.7	1104.0	1090.1	1077.6	1056.2	1035.7	1021.9
10°	1216.6	1195.5	1174.8	1147.2	1125.7	1104.6	1085.0	1068.0	1043.9	1016.7	997.4
12.5°	1234.4	1211.1	1182.6	1155.7	1127.8	1101.0	1074.7	1052.9	1024.6	996.5	973.6
15°	1258.5	1233.6	1198.9	1160.4	1124.6	1089.5	1059.3	1032.2	995.2	961.7	933.7
17.5°	1278.2	1243.9	1206.6	1162.2	1120.6	1076.1	1037.2	1002.5	961.4	920.9	888.1
20°	1284.4	1250.5	1207.5	1163.1	1114.0	1061.6	1019.8	982.0	937.9	893.7	856.1
22.5°	1280.5	1254.2	1206.3	1153.1	1102.9	1048.0	1000.8	956.9	908.1	863.0	819.3
25°	1253.9	1244.9	1199.6	1141.6	1084.2	1020.5	965.8	917.9	862.1	813.9	766.3
27.5°	1191.8	1211.4	1183.4	1121.5	1057.7	989.4	928.0	873.4	815.5	761.1	713.8
30°	1132.2	1177.0	1164.9	1107.6	1036.3	969.2	900.2	843.2	781.4	725.6	678.8
32.5°	1050.4	1124.5	1136.3	1088.3	1014.6	940.8	868.5	811.8	747.3	688.4	642.9
35°	920.2	1031.1	1082.0	1051.4	977.4	898.0	823.2	757.3	692.4	634.3	589.1
37.5°	764.9	915.8	1000.8	1002.9	935.0	852.3	771.0	705.5	639.0	582.1	533.1
40°	664.1	827.8	938.3	962.8	905.4	816.1	733.9	667.1	602.3	546.4	490.3
42.5°	573.6	736.7	872.5	915.1	869.6	780.8	698.3	628.5	565.4	512.6	455.2
45°	463.8	606.4	756.1	832.3	807.1	724.8	637.7	571.4	512.1	466.5	411.4
47.5°	391.3	491.8	636.6	739.7	739.2	664.2	578.6	514.9	460.0	417.3	372.6
50°	349.9	437.5	560.1	676.9	686.7	623.8	542.3	479.3	428.1	383.1	347.3
52.5°	312.9	385.0	495.1	607.2	635.1	580.6	501.6	443.4	393.6	352.3	321.6
55°	264.4	320.1	403.9	508.8	551.0	512.5	442.3	388.1	347.7	313.1	286.6
57.5°	223.6	265.5	332.6	417.1	466.3	442.0	384.3	340.1	305.6	274.2	253.4
60°	198.0	232.3	289.2	359.8	414.0	397.1	347.7	306.6	277.2	250.0	230.5
62.5°	173.9	203.4	252.2	309.4	359.2	352.1	311.8	277.3	251.6	226.8	210.3
65°	139.9	161.4	199.4	244.4	284.4	287.7	258.7	235.3	212.3	192.7	178.0
67.5°	111.4	125.4	152.3	190.1	220.0	230.8	213.0	195.1	176.8	161.7	149.0
70°	93.9	105.2	124.8	155.4	182.9	194.2	184.0	170.1	154.2	141.8	130.9
72.5°	76.1	87.2	101.6	124.0	147.6	159.9	156.3	146.2	133.4	123.1	112.8
75°	57.4	60.7	70.5	85.6	104.1	114.6	117.2	112.0	101.8	93.9	87.9
77.5°	42.4	44.4	49.1	57.1	69.1	78.5	82.4	81.8	74.7	70.2	64.5
80°	33.9	35.0	37.4	40.7	49.8	59.2	61.8	61.8	57.0	55.0	49.4
82.5°	25.8	26.7	28.0	29.9	34.1	42.3	45.2	45.8	42.7	40.3	35.9
85°	14.7	14.3	15.0	16.3	17.0	19.2	23.7	24.5	23.7	20.7	19.6
87.5°	7.5	7.3	6.9	6.2	6.3	6.4	7.6	8.9	7.9	7.2	6.9
90°	11.5	9.3	7.1	5.4	4.1	2.9	1.7	0.5	1.7	2.9	4.1
92.5°	13.5	12.9	12.4	11.7	10.8	9.9	9.1	8.2	9.1	9.9	10.8
95°	28.9	28.7	28.5	27.9	26.9	25.9	24.8	23.8	24.8	25.9	26.9
97.5°	48.5	48.1	47.7	47.1	46.2	45.2	44.3	43.4	44.3	45.2	46.2
100°	62.5	62.2	61.9	61.4	60.6	59.7	58.9	58.1	58.9	59.7	60.6
102.5°	77.4	77.0	76.6	76.0	75.4	74.7	74.1	73.5	74.1	74.7	75.4
105°	100.3	100.1	99.9	99.6	99.3	99.0	98.7	98.4	98.7	99.0	99.3
107.5°	125.4	125.4	125.4	125.2	124.8	124.3	123.9	123.4	123.9	124.3	124.8
110°	142.3	142.3	142.3	142.0	141.4	140.8	140.2	139.6	140.2	140.8	141.4





TEST NUMBER: P331786-840

CATALOG NUMBER: S122RDIW-S485D435U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	159.7	159.8	159.9	159.6	159.0	158.3	157.7	157.1	157.7	158.3	159.0
115°	185.2	185.4	185.6	185.4	184.8	184.2	183.6	183.0	183.6	184.2	184.8
117.5°	211.1	211.7	212.2	212.1	211.3	210.5	209.6	208.8	209.6	210.5	211.3
120°	227.6	228.4	229.2	229.2	228.4	227.6	226.8	226.0	226.8	227.6	228.4
122.5°	244.7	245.3	245.9	245.7	244.7	243.7	242.8	241.8	242.8	243.7	244.7
125°	269.6	269.9	270.2	269.9	269.0	268.1	267.2	266.3	267.2	268.1	269.0
127.5°	294.5	294.9	295.2	294.8	293.7	292.5	291.3	290.1	291.3	292.5	293.7
130°	310.6	310.8	311.0	310.4	309.1	307.8	306.5	305.2	306.5	307.8	309.1
132.5°	327.0	326.9	326.9	326.3	325.3	324.2	323.1	322.0	323.1	324.2	325.3
135°	350.0	349.8	349.6	349.0	347.9	346.8	345.7	344.6	345.7	346.8	347.9
137.5°	373.0	372.7	372.4	371.8	370.9	370.0	369.1	368.2	369.1	370.0	370.9
140°	387.9	387.4	386.9	386.2	385.3	384.4	383.4	382.5	383.4	384.4	385.3
142.5°	402.1	401.7	401.4	400.8	399.9	399.0	398.1	397.2	398.1	399.0	399.9
145°	422.9	422.3	421.7	421.0	420.3	419.6	418.9	418.2	418.9	419.6	420.3
147.5°	441.8	441.4	441.0	440.4	439.5	438.7	437.8	437.0	437.8	438.7	439.5
150°	453.5	453.1	452.7	452.2	451.6	451.0	450.4	449.8	450.4	451.0	451.6
152.5°	465.0	464.5	464.1	463.5	462.9	462.3	461.7	461.1	461.7	462.3	462.9
155°	480.3	480.0	479.7	479.4	479.1	478.7	478.4	478.1	478.4	478.7	479.1
157.5°	494.0	493.8	493.6	493.5	493.3	493.1	492.9	492.7	492.9	493.1	493.3
160°	502.6	502.5	502.4	502.3	502.1	501.9	501.7	501.5	501.7	501.9	502.1
162.5°	510.0	509.9	509.8	509.7	509.6	509.6	509.6	509.5	509.6	509.6	509.6
165°	519.8	519.8	519.8	519.8	519.9	520.0	520.1	520.2	520.1	520.0	519.9
167.5°	527.8	527.8	527.8	528.0	528.3	528.6	528.9	529.2	528.9	528.6	528.3
170°	532.3	532.4	532.5	532.7	533.0	533.3	533.6	533.9	533.6	533.3	533.0
172.5°	535.6	535.7	535.8	536.0	536.3	536.6	536.9	537.2	536.9	536.6	536.3
175°	539.4	539.6	539.8	540.1	540.4	540.7	541.0	541.3	541.0	540.7	540.4
177.5°	541.4	541.6	541.7	541.9	542.2	542.4	542.7	542.9	542.7	542.4	542.2
180°	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2



TEST NUMBER: P331786-840

CATALOG NUMBER: S122RDIW-S485D435U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1070.0	1067.8	1063.9	1057.9	1054.3	1047.9	1043.7	1046.1	1046.7	1046.1	1045.5
5°	1041.3	1033.3	1022.4	1011.8	1002.0	991.5	985.4	982.8	977.4	974.5	973.0
7.5°	1006.4	992.8	977.3	959.0	943.3	927.0	918.6	914.4	903.6	897.8	892.6
10°	980.5	959.0	943.5	919.4	904.7	883.2	868.5	868.9	854.1	845.9	839.8
12.5°	951.9	928.3	902.5	880.8	860.4	843.1	825.4	818.2	802.5	794.6	778.3
15°	904.3	876.8	849.7	820.2	799.5	772.7	747.1	715.8	690.5	668.6	662.6
17.5°	852.4	818.4	791.1	756.6	721.0	676.0	646.3	628.1	612.9	601.4	592.8
20°	816.9	782.1	753.2	701.0	653.2	622.6	600.8	586.8	571.0	558.6	551.7
22.5°	779.4	743.3	703.7	645.5	608.2	583.7	564.2	548.2	537.5	527.8	521.6
25°	726.3	686.7	621.5	581.5	551.4	525.7	512.1	502.3	491.0	477.8	471.8
27.5°	670.2	607.2	560.4	530.7	501.9	485.2	473.0	458.4	448.3	442.3	436.1
30°	628.2	565.3	528.8	496.2	475.9	457.5	443.1	434.8	425.1	414.9	410.7
32.5°	581.5	531.2	496.1	469.2	448.5	432.7	421.4	408.0	400.9	394.7	386.0
35°	523.4	485.3	453.3	431.4	411.8	399.0	385.8	377.9	365.1	359.8	356.4
37.5°	474.2	441.2	417.3	394.3	378.7	364.6	356.5	343.9	338.3	330.9	323.8
40°	446.5	414.0	391.1	372.2	354.9	344.3	334.2	324.0	315.7	312.3	303.6
42.5°	418.2	391.7	368.7	348.1	336.5	325.3	312.5	305.0	296.3	290.8	285.5
45°	379.0	355.7	336.0	319.0	306.2	294.6	286.2	273.8	268.9	257.9	253.4
47.5°	344.6	322.9	304.2	288.0	275.5	267.9	255.8	246.0	238.2	231.5	225.7
50°	320.1	302.1	284.0	269.6	258.3	247.4	235.0	230.0	217.9	214.6	211.2
52.5°	297.8	280.6	264.1	250.0	238.7	228.1	217.1	210.8	202.6	199.1	196.7
55°	266.6	250.0	234.2	221.8	210.5	199.4	192.7	184.8	181.0	178.3	175.3
57.5°	235.2	220.4	208.1	195.6	184.2	175.5	167.6	162.9	159.0	155.5	151.9
60°	215.3	201.0	190.1	178.3	166.7	159.6	153.5	147.8	143.3	138.0	136.5
62.5°	194.2	181.7	171.7	160.3	150.1	143.5	137.8	132.5	127.0	119.4	117.2
65°	165.2	155.4	144.8	135.4	126.3	120.0	111.6	105.6	103.3	102.6	102.2
67.5°	139.0	129.7	120.6	111.0	102.7	96.7	92.5	91.6	90.1	89.6	88.6
70°	121.4	112.8	103.7	94.6	86.7	85.6	84.1	82.6	80.7	80.0	79.2
72.5°	105.7	96.7	87.8	80.5	77.1	75.6	74.1	72.6	71.4	70.6	70.2
75°	81.1	72.8	66.8	64.1	62.2	61.1	58.9	57.7	57.0	55.8	55.4
77.5°	58.4	53.7	50.9	49.3	47.3	46.0	44.8	43.6	42.8	42.6	42.0
80°	44.5	42.2	40.4	38.1	37.4	35.9	35.4	34.3	34.7	33.5	33.5
82.5°	34.5	31.7	30.1	29.1	28.3	27.1	26.7	26.2	26.3	25.4	25.4
85°	17.8	17.0	16.3	15.5	15.5	14.3	14.7	14.3	14.3	13.5	13.2
87.5°	6.8	6.9	6.7	7.2	7.6	7.8	7.7	7.4	7.3	7.3	7.0
90°	5.4	7.1	9.3	11.5	13.7	16.1	15.9	15.7	15.5	15.2	15.1
92.5°	11.7	12.4	12.9	13.5	14.0	14.5	14.5	14.6	14.6	14.7	14.7
95°	27.9	28.5	28.7	28.9	29.1	29.3	29.3	29.3	29.3	29.3	29.2
97.5°	47.1	47.7	48.1	48.5	48.9	49.2	49.2	49.2	49.2	49.2	49.2
100°	61.4	61.9	62.2	62.5	62.8	63.1	63.1	63.1	63.1	63.1	63.1
102.5°	76.0	76.6	77.0	77.4	77.8	78.2	78.3	78.3	78.4	78.5	78.5
105°	99.6	99.9	100.1	100.3	100.5	100.7	100.9	101.1	101.3	101.5	101.6
107.5°	125.2	125.4	125.4	125.4	125.4	125.4	125.5	125.6	125.7	125.8	125.6
110°	142.0	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.1



TEST NUMBER: P331786-840

CATALOG NUMBER: S122RDIW-S485D435U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	159.6	159.9	159.8	159.7	159.6	159.5	159.3	159.1	158.8	158.5	158.2
115°	185.4	185.6	185.4	185.2	185.0	184.8	184.7	184.6	184.5	184.4	184.2
117.5°	212.1	212.2	211.7	211.1	210.5	210.0	209.6	209.4	209.1	208.9	208.6
120°	229.2	229.2	228.4	227.6	226.8	226.0	226.0	226.0	226.0	226.0	225.9
122.5°	245.7	245.9	245.3	244.7	244.2	243.6	243.4	243.1	242.9	242.6	242.4
125°	269.9	270.2	269.9	269.6	269.3	269.0	268.7	268.4	268.1	267.8	267.6
127.5°	294.8	295.2	294.9	294.5	294.1	293.8	293.4	293.0	292.7	292.3	292.0
130°	310.4	311.0	310.8	310.6	310.4	310.2	310.0	309.8	309.6	309.4	309.1
132.5°	326.3	326.9	326.9	327.0	327.0	327.0	326.6	326.2	325.7	325.3	324.9
135°	349.0	349.6	349.8	350.0	350.2	350.4	350.3	350.2	350.1	350.0	349.8
137.5°	371.8	372.4	372.7	373.0	373.2	373.5	373.4	373.3	373.2	373.2	372.9
140°	386.2	386.9	387.4	387.9	388.4	388.9	388.9	388.9	388.9	388.9	388.7
142.5°	400.8	401.4	401.7	402.1	402.4	402.8	402.9	402.9	403.0	403.1	402.9
145°	421.0	421.7	422.3	422.9	423.5	424.1	424.2	424.3	424.4	424.5	424.3
147.5°	440.4	441.0	441.4	441.8	442.2	442.6	442.8	443.0	443.3	443.5	443.4
150°	452.2	452.7	453.1	453.5	453.9	454.3	454.6	454.9	455.2	455.6	455.6
152.5°	463.5	464.1	464.5	465.0	465.5	466.1	466.5	466.8	467.2	467.6	467.6
155°	479.4	479.7	480.0	480.3	480.6	480.9	481.4	481.9	482.4	482.9	483.0
157.5°	493.5	493.6	493.8	494.0	494.2	494.4	495.1	495.7	496.4	497.2	497.3
160°	502.3	502.4	502.5	502.6	502.7	502.8	503.4	504.0	504.6	505.2	505.3
162.5°	509.7	509.8	509.9	510.0	510.1	510.2	510.8	511.5	512.2	512.9	513.0
165°	519.8	519.8	519.8	519.8	519.8	519.8	520.5	521.2	521.9	522.6	522.7
167.5°	528.0	527.8	527.8	527.8	527.8	527.8	528.5	529.2	529.9	530.6	530.7
170°	532.7	532.5	532.4	532.3	532.2	532.1	532.8	533.5	534.2	534.9	535.0
172.5°	536.0	535.8	535.7	535.6	535.5	535.4	536.1	536.8	537.6	538.3	538.3
175°	540.1	539.8	539.6	539.4	539.2	539.0	539.7	540.4	541.1	541.8	541.9
177.5°	541.9	541.7	541.6	541.4	541.2	541.1	541.6	542.1	542.5	543.0	543.0
180°	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2



TEST NUMBER: P331786-840

CATALOG NUMBER: S122RDIW-S485D435U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1042.2	1042.8	1041.9	1042.5	1041.9	1042.8	1042.2	1045.5	1046.1	1046.7	1046.1
5°	971.1	966.5	965.8	964.7	965.8	966.5	971.1	973.0	974.5	977.4	982.8
7.5°	886.2	885.4	883.6	880.9	883.6	885.4	886.2	892.6	897.8	903.6	914.4
10°	831.5	829.7	829.3	826.7	829.3	829.7	831.5	839.8	845.9	854.1	868.9
12.5°	767.6	755.5	754.2	747.6	754.2	755.5	767.6	778.3	794.6	802.5	818.2
15°	653.6	651.3	643.8	638.8	643.8	651.3	653.6	662.6	668.6	690.5	715.8
17.5°	588.3	581.0	578.7	577.6	578.7	581.0	588.3	592.8	601.4	612.9	628.1
20°	546.4	539.7	538.6	537.8	538.6	539.7	546.4	551.7	558.6	571.0	586.8
22.5°	517.5	510.4	507.5	505.2	507.5	510.4	517.5	521.6	527.8	537.5	548.2
25°	468.0	465.3	463.8	463.1	463.8	465.3	468.0	471.8	477.8	491.0	502.3
27.5°	429.3	423.5	422.3	420.4	422.3	423.5	429.3	436.1	442.3	448.3	458.4
30°	407.3	405.4	402.7	400.5	402.7	405.4	407.3	410.7	414.9	425.1	434.8
32.5°	381.3	379.8	377.4	376.4	377.4	379.8	381.3	386.0	394.7	400.9	408.0
35°	352.6	347.3	345.1	341.6	345.1	347.3	352.6	356.4	359.8	365.1	377.9
37.5°	322.2	319.4	316.3	317.4	316.3	319.4	322.2	323.8	330.9	338.3	343.9
40°	298.7	296.8	296.0	295.7	296.0	296.8	298.7	303.6	312.3	315.7	324.0
42.5°	279.9	274.8	272.8	272.8	272.8	274.8	279.9	285.5	290.8	296.3	305.0
45°	251.6	246.6	243.3	243.6	243.3	246.6	251.6	253.4	257.9	268.9	273.8
47.5°	222.5	222.3	220.2	220.9	220.2	222.3	222.5	225.7	231.5	238.2	246.0
50°	208.5	206.3	204.8	205.1	204.8	206.3	208.5	211.2	214.6	217.9	230.0
52.5°	195.3	193.3	192.1	193.7	192.1	193.3	195.3	196.7	199.1	202.6	210.8
55°	173.5	171.2	170.9	170.5	170.9	171.2	173.5	175.3	178.3	181.0	184.8
57.5°	149.2	147.6	145.3	144.4	145.3	147.6	149.2	151.9	155.5	159.0	162.9
60°	131.6	128.6	124.8	124.4	124.8	128.6	131.6	136.5	138.0	143.3	147.8
62.5°	115.6	115.0	114.3	114.2	114.3	115.0	115.6	117.2	119.4	127.0	132.5
65°	101.5	101.1	101.5	101.8	101.5	101.1	101.5	102.2	102.6	103.3	105.6
67.5°	88.4	87.8	87.1	87.4	87.1	87.8	88.4	88.6	89.6	90.1	91.6
70°	78.5	78.1	77.7	77.7	77.7	78.1	78.5	79.2	80.0	80.7	82.6
72.5°	68.8	68.7	68.4	68.1	68.4	68.7	68.8	70.2	70.6	71.4	72.6
75°	55.0	54.3	54.3	54.3	54.3	54.3	55.0	55.4	55.8	57.0	57.7
77.5°	41.9	41.6	41.2	40.9	41.2	41.6	41.9	42.0	42.6	42.8	43.6
80°	33.2	32.8	32.4	32.4	32.4	32.8	33.2	33.5	33.5	34.7	34.3
82.5°	25.3	24.9	24.8	24.5	24.8	24.9	25.3	25.4	25.4	26.3	26.2
85°	13.5	13.9	13.5	14.3	13.5	13.9	13.5	13.2	13.5	14.3	14.3
87.5°	7.0	6.7	7.0	6.8	7.0	6.7	7.0	7.0	7.3	7.3	7.4
90°	15.2	15.3	15.5	15.6	15.5	15.3	15.2	15.1	15.2	15.5	15.7
92.5°	14.7	14.7	14.8	14.8	14.8	14.7	14.7	14.7	14.7	14.6	14.6
95°	29.0	28.8	28.6	28.4	28.6	28.8	29.0	29.2	29.3	29.3	29.3
97.5°	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
100°	63.0	62.9	62.8	62.7	62.8	62.9	63.0	63.1	63.1	63.1	63.1
102.5°	78.4	78.3	78.2	78.1	78.2	78.3	78.4	78.5	78.5	78.4	78.3
105°	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.5	101.3	101.1
107.5°	125.1	124.6	124.2	123.7	124.2	124.6	125.1	125.6	125.8	125.7	125.6
110°	141.8	141.5	141.2	140.9	141.2	141.5	141.8	142.1	142.3	142.3	142.3



TEST NUMBER: P331786-840

CATALOG NUMBER: S122RDIW-S485D435U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	158.0	157.8	157.6	157.4	157.6	157.8	158.0	158.2	158.5	158.8	159.1
115°	183.9	183.6	183.3	183.0	183.3	183.6	183.9	184.2	184.4	184.5	184.6
117.5°	208.3	208.0	207.7	207.4	207.7	208.0	208.3	208.6	208.9	209.1	209.4
120°	225.6	225.3	225.0	224.7	225.0	225.3	225.6	225.9	226.0	226.0	226.0
122.5°	242.2	242.0	241.7	241.5	241.7	242.0	242.2	242.4	242.6	242.9	243.1
125°	267.5	267.4	267.3	267.2	267.3	267.4	267.5	267.6	267.8	268.1	268.4
127.5°	291.5	291.2	290.9	290.6	290.9	291.2	291.5	292.0	292.3	292.7	293.0
130°	308.7	308.3	307.9	307.5	307.9	308.3	308.7	309.1	309.4	309.6	309.8
132.5°	324.6	324.2	323.9	323.6	323.9	324.2	324.6	324.9	325.3	325.7	326.2
135°	349.5	349.2	348.9	348.6	348.9	349.2	349.5	349.8	350.0	350.1	350.2
137.5°	372.5	372.1	371.7	371.3	371.7	372.1	372.5	372.9	373.2	373.2	373.3
140°	388.3	387.9	387.5	387.1	387.5	387.9	388.3	388.7	388.9	388.9	388.9
142.5°	402.5	402.1	401.7	401.3	401.7	402.1	402.5	402.9	403.1	403.0	402.9
145°	423.9	423.5	423.1	422.7	423.1	423.5	423.9	424.3	424.5	424.4	424.3
147.5°	443.0	442.6	442.2	441.9	442.2	442.6	443.0	443.4	443.5	443.3	443.0
150°	455.2	454.9	454.6	454.3	454.6	454.9	455.2	455.6	455.6	455.2	454.9
152.5°	467.2	466.8	466.5	466.1	466.5	466.8	467.2	467.6	467.6	467.2	466.8
155°	482.7	482.4	482.1	481.8	482.1	482.4	482.7	483.0	482.9	482.4	481.9
157.5°	496.8	496.2	495.8	495.3	495.8	496.2	496.8	497.3	497.2	496.4	495.7
160°	504.9	504.5	504.1	503.7	504.1	504.5	504.9	505.3	505.2	504.6	504.0
162.5°	512.5	512.0	511.5	511.1	511.5	512.0	512.5	513.0	512.9	512.2	511.5
165°	522.2	521.7	521.2	520.7	521.2	521.7	522.2	522.7	522.6	521.9	521.2
167.5°	530.1	529.6	529.1	528.6	529.1	529.6	530.1	530.7	530.6	529.9	529.2
170°	534.4	533.8	533.2	532.6	533.2	533.8	534.4	535.0	534.9	534.2	533.5
172.5°	537.7	537.0	536.4	535.8	536.4	537.0	537.7	538.3	538.3	537.6	536.8
175°	541.3	540.7	540.1	539.5	540.1	540.7	541.3	541.9	541.8	541.1	540.4
177.5°	542.5	542.1	541.6	541.1	541.6	542.1	542.5	543.0	543.0	542.5	542.1
180°	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2



TEST NUMBER: P331786-840

CATALOG NUMBER: S122RDIW-S485D435U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1043.7	1047.9	1054.3	1057.9	1063.9	1067.8	1070.0	1073.9	1076.0	1083.6	1091.4
5°	985.4	991.5	1002.0	1011.8	1022.4	1033.3	1041.3	1050.3	1058.5	1072.9	1088.0
7.5°	918.6	927.0	943.3	959.0	977.3	992.8	1006.4	1021.9	1035.7	1056.2	1077.6
10°	868.5	883.2	904.7	919.4	943.5	959.0	980.5	997.4	1016.7	1043.9	1068.0
12.5°	825.4	843.1	860.4	880.8	902.5	928.3	951.9	973.6	996.5	1024.6	1052.9
15°	747.1	772.7	799.5	820.2	849.7	876.8	904.3	933.7	961.7	995.2	1032.2
17.5°	646.3	676.0	721.0	756.6	791.1	818.4	852.4	888.1	920.9	961.4	1002.5
20°	600.8	622.6	653.2	701.0	753.2	782.1	816.9	856.1	893.7	937.9	982.0
22.5°	564.2	583.7	608.2	645.5	703.7	743.3	779.4	819.3	863.0	908.1	956.9
25°	512.1	525.7	551.4	581.5	621.5	686.7	726.3	766.3	813.9	862.1	917.9
27.5°	473.0	485.2	501.9	530.7	560.4	607.2	670.2	713.8	761.1	815.5	873.4
30°	443.1	457.5	475.9	496.2	528.8	565.3	628.2	678.8	725.6	781.4	843.2
32.5°	421.4	432.7	448.5	469.2	496.1	531.2	581.5	642.9	688.4	747.3	811.8
35°	385.8	399.0	411.8	431.4	453.3	485.3	523.4	589.1	634.3	692.4	757.3
37.5°	356.5	364.6	378.7	394.3	417.3	441.2	474.2	533.1	582.1	639.0	705.5
40°	334.2	344.3	354.9	372.2	391.1	414.0	446.5	490.3	546.4	602.3	667.1
42.5°	312.5	325.3	336.5	348.1	368.7	391.7	418.2	455.2	512.6	565.4	628.5
45°	286.2	294.6	306.2	319.0	336.0	355.7	379.0	411.4	466.5	512.1	571.4
47.5°	255.8	267.9	275.5	288.0	304.2	322.9	344.6	372.6	417.3	460.0	514.9
50°	235.0	247.4	258.3	269.6	284.0	302.1	320.1	347.3	383.1	428.1	479.3
52.5°	217.1	228.1	238.7	250.0	264.1	280.6	297.8	321.6	352.3	393.6	443.4
55°	192.7	199.4	210.5	221.8	234.2	250.0	266.6	286.6	313.1	347.7	388.1
57.5°	167.6	175.5	184.2	195.6	208.1	220.4	235.2	253.4	274.2	305.6	340.1
60°	153.5	159.6	166.7	178.3	190.1	201.0	215.3	230.5	250.0	277.2	306.6
62.5°	137.8	143.5	150.1	160.3	171.7	181.7	194.2	210.3	226.8	251.6	277.3
65°	111.6	120.0	126.3	135.4	144.8	155.4	165.2	178.0	192.7	212.3	235.3
67.5°	92.5	96.7	102.7	111.0	120.6	129.7	139.0	149.0	161.7	176.8	195.1
70°	84.1	85.6	86.7	94.6	103.7	112.8	121.4	130.9	141.8	154.2	170.1
72.5°	74.1	75.6	77.1	80.5	87.8	96.7	105.7	112.8	123.1	133.4	146.2
75°	58.9	61.1	62.2	64.1	66.8	72.8	81.1	87.9	93.9	101.8	112.0
77.5°	44.8	46.0	47.3	49.3	50.9	53.7	58.4	64.5	70.2	74.7	81.8
80°	35.4	35.9	37.4	38.1	40.4	42.2	44.5	49.4	55.0	57.0	61.8
82.5°	26.7	27.1	28.3	29.1	30.1	31.7	34.5	35.9	40.3	42.7	45.8
85°	14.7	14.3	15.5	15.5	16.3	17.0	17.8	19.6	20.7	23.7	24.5
87.5°	7.7	7.8	7.6	7.2	6.7	6.9	6.8	6.9	7.2	7.9	8.9
90°	15.9	16.1	13.7	11.5	9.3	7.1	5.4	4.1	2.9	1.7	0.5
92.5°	14.5	14.5	14.0	13.5	12.9	12.4	11.7	10.8	9.9	9.1	8.2
95°	29.3	29.3	29.1	28.9	28.7	28.5	27.9	26.9	25.9	24.8	23.8
97.5°	49.2	49.2	48.9	48.5	48.1	47.7	47.1	46.2	45.2	44.3	43.4
100°	63.1	63.1	62.8	62.5	62.2	61.9	61.4	60.6	59.7	58.9	58.1
102.5°	78.3	78.2	77.8	77.4	77.0	76.6	76.0	75.4	74.7	74.1	73.5
105°	100.9	100.7	100.5	100.3	100.1	99.9	99.6	99.3	99.0	98.7	98.4
107.5°	125.5	125.4	125.4	125.4	125.4	125.4	125.2	124.8	124.3	123.9	123.4
110°	142.3	142.3	142.3	142.3	142.3	142.3	142.0	141.4	140.8	140.2	139.6



TEST NUMBER: P331786-840

CATALOG NUMBER: S122RDIW-S485D435U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	159.3	159.5	159.6	159.7	159.8	159.9	159.6	159.0	158.3	157.7	157.1
115°	184.7	184.8	185.0	185.2	185.4	185.6	185.4	184.8	184.2	183.6	183.0
117.5°	209.6	210.0	210.5	211.1	211.7	212.2	212.1	211.3	210.5	209.6	208.8
120°	226.0	226.0	226.8	227.6	228.4	229.2	229.2	228.4	227.6	226.8	226.0
122.5°	243.4	243.6	244.2	244.7	245.3	245.9	245.7	244.7	243.7	242.8	241.8
125°	268.7	269.0	269.3	269.6	269.9	270.2	269.9	269.0	268.1	267.2	266.3
127.5°	293.4	293.8	294.1	294.5	294.9	295.2	294.8	293.7	292.5	291.3	290.1
130°	310.0	310.2	310.4	310.6	310.8	311.0	310.4	309.1	307.8	306.5	305.2
132.5°	326.6	327.0	327.0	327.0	326.9	326.9	326.3	325.3	324.2	323.1	322.0
135°	350.3	350.4	350.2	350.0	349.8	349.6	349.0	347.9	346.8	345.7	344.6
137.5°	373.4	373.5	373.2	373.0	372.7	372.4	371.8	370.9	370.0	369.1	368.2
140°	388.9	388.9	388.4	387.9	387.4	386.9	386.2	385.3	384.4	383.4	382.5
142.5°	402.9	402.8	402.4	402.1	401.7	401.4	400.8	399.9	399.0	398.1	397.2
145°	424.2	424.1	423.5	422.9	422.3	421.7	421.0	420.3	419.6	418.9	418.2
147.5°	442.8	442.6	442.2	441.8	441.4	441.0	440.4	439.5	438.7	437.8	437.0
150°	454.6	454.3	453.9	453.5	453.1	452.7	452.2	451.6	451.0	450.4	449.8
152.5°	466.5	466.1	465.5	465.0	464.5	464.1	463.5	462.9	462.3	461.7	461.1
155°	481.4	480.9	480.6	480.3	480.0	479.7	479.4	479.1	478.7	478.4	478.1
157.5°	495.1	494.4	494.2	494.0	493.8	493.6	493.5	493.3	493.1	492.9	492.7
160°	503.4	502.8	502.7	502.6	502.5	502.4	502.3	502.1	501.9	501.7	501.5
162.5°	510.8	510.2	510.1	510.0	509.9	509.8	509.7	509.6	509.6	509.6	509.5
165°	520.5	519.8	519.8	519.8	519.8	519.8	519.8	519.9	520.0	520.1	520.2
167.5°	528.5	527.8	527.8	527.8	527.8	527.8	528.0	528.3	528.6	528.9	529.2
170°	532.8	532.1	532.2	532.3	532.4	532.5	532.7	533.0	533.3	533.6	533.9
172.5°	536.1	535.4	535.5	535.6	535.7	535.8	536.0	536.3	536.6	536.9	537.2
175°	539.7	539.0	539.2	539.4	539.6	539.8	540.1	540.4	540.7	541.0	541.3
177.5°	541.6	541.1	541.2	541.4	541.6	541.7	541.9	542.2	542.4	542.7	542.9
180°	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2



TEST NUMBER: P331786-840

CATALOG NUMBER: S122RDIW-S485D435U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1091.7	1092.6	1098.6	1101.4	1106.8	1108.9	1111.3	1110.6	1110.6	1111.9	1120.3
5°	1094.0	1101.6	1112.9	1123.8	1134.4	1143.5	1149.4	1155.5	1157.7	1168.7	1178.5
7.5°	1090.1	1104.0	1122.7	1139.3	1159.3	1175.0	1187.9	1199.6	1207.6	1223.6	1239.8
10°	1085.0	1104.6	1125.7	1147.2	1174.8	1195.5	1216.6	1232.8	1238.1	1261.8	1275.5
12.5°	1074.7	1101.0	1127.8	1155.7	1182.6	1211.1	1234.4	1250.6	1269.2	1290.5	1315.6
15°	1059.3	1089.5	1124.6	1160.4	1198.9	1233.6	1258.5	1286.8	1307.1	1330.5	1352.3
17.5°	1037.2	1076.1	1120.6	1162.2	1206.6	1243.9	1278.2	1305.3	1319.6	1332.9	1336.3
20°	1019.8	1061.6	1114.0	1163.1	1207.5	1250.5	1284.4	1307.1	1310.9	1311.2	1291.2
22.5°	1000.8	1048.0	1102.9	1153.1	1206.3	1254.2	1280.5	1290.2	1275.3	1249.7	1211.0
25°	965.8	1020.5	1084.2	1141.6	1199.6	1244.9	1253.9	1237.0	1184.6	1129.4	1059.8
27.5°	928.0	989.4	1057.7	1121.5	1183.4	1211.4	1191.8	1130.6	1036.2	954.2	854.7
30°	900.2	969.2	1036.3	1107.6	1164.9	1177.0	1132.2	1042.0	931.9	808.2	709.0
32.5°	868.5	940.8	1014.6	1088.3	1136.3	1124.5	1050.4	939.4	810.3	688.7	594.9
35°	823.2	898.0	977.4	1051.4	1082.0	1031.1	920.2	775.8	643.8	530.3	465.7
37.5°	771.0	852.3	935.0	1002.9	1000.8	915.8	764.9	615.7	504.8	437.7	391.7
40°	733.9	816.1	905.4	962.8	938.3	827.8	664.1	523.4	442.3	388.8	355.3
42.5°	698.3	780.8	869.6	915.1	872.5	736.7	573.6	463.4	396.5	354.8	327.5
45°	637.7	724.8	807.1	832.3	756.1	606.4	463.8	384.0	339.4	308.5	289.6
47.5°	578.6	664.2	739.2	739.7	636.6	491.8	391.3	332.2	294.3	270.3	256.6
50°	542.3	623.8	686.7	676.9	560.1	437.5	349.9	299.0	267.4	248.9	234.6
52.5°	501.6	580.6	635.1	607.2	495.1	385.0	312.9	270.1	243.9	227.8	215.0
55°	442.3	512.5	551.0	508.8	403.9	320.1	264.4	230.8	211.2	197.6	186.7
57.5°	384.3	442.0	466.3	417.1	332.6	265.5	223.6	198.4	178.9	169.3	163.6
60°	347.7	397.1	414.0	359.8	289.2	232.3	198.0	174.6	160.3	153.9	148.2
62.5°	311.8	352.1	359.2	309.4	252.2	203.4	173.9	154.1	144.6	138.5	133.1
65°	258.7	287.7	284.4	244.4	199.4	161.4	139.9	127.8	120.7	112.0	102.6
67.5°	213.0	230.8	220.0	190.1	152.3	125.4	111.4	102.3	93.4	85.1	83.0
70°	184.0	194.2	182.9	155.4	124.8	105.2	93.9	83.0	77.7	75.8	72.4
72.5°	156.3	159.9	147.6	124.0	101.6	87.2	76.1	70.0	67.2	65.5	63.3
75°	117.2	114.6	104.1	85.6	70.5	60.7	57.4	55.0	53.2	51.7	50.5
77.5°	82.4	78.5	69.1	57.1	49.1	44.4	42.4	41.2	40.3	39.5	38.4
80°	61.8	59.2	49.8	40.7	37.4	35.0	33.9	32.4	32.4	31.7	30.5
82.5°	45.2	42.3	34.1	29.9	28.0	26.7	25.8	24.8	24.5	24.7	23.9
85°	23.7	19.2	17.0	16.3	15.0	14.3	14.7	13.9	13.9	13.9	13.5
87.5°	7.6	6.4	6.3	6.2	6.9	7.3	7.5	7.9	8.6	8.3	8.6
90°	1.7	2.9	4.1	5.4	7.1	9.3	11.5	13.7	16.1	15.9	15.7
92.5°	9.1	9.9	10.8	11.7	12.4	12.9	13.5	14.0	14.5	14.5	14.6
95°	24.8	25.9	26.9	27.9	28.5	28.7	28.9	29.1	29.3	29.3	29.3
97.5°	44.3	45.2	46.2	47.1	47.7	48.1	48.5	48.9	49.2	49.2	49.2
100°	58.9	59.7	60.6	61.4	61.9	62.2	62.5	62.8	63.1	63.1	63.1
102.5°	74.1	74.7	75.4	76.0	76.6	77.0	77.4	77.8	78.2	78.3	78.3
105°	98.7	99.0	99.3	99.6	99.9	100.1	100.3	100.5	100.7	100.9	101.1
107.5°	123.9	124.3	124.8	125.2	125.4	125.4	125.4	125.4	125.4	125.5	125.6
110°	140.2	140.8	141.4	142.0	142.3	142.3	142.3	142.3	142.3	142.3	142.3





TEST NUMBER: P331786-840

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	157.7	158.3	159.0	159.6	159.9	159.8	159.7	159.6	159.5	159.3	159.1
115°	183.6	184.2	184.8	185.4	185.6	185.4	185.2	185.0	184.8	184.7	184.6
117.5°	209.6	210.5	211.3	212.1	212.2	211.7	211.1	210.5	210.0	209.6	209.4
120°	226.8	227.6	228.4	229.2	229.2	228.4	227.6	226.8	226.0	226.0	226.0
122.5°	242.8	243.7	244.7	245.7	245.9	245.3	244.7	244.2	243.6	243.4	243.1
125°	267.2	268.1	269.0	269.9	270.2	269.9	269.6	269.3	269.0	268.7	268.4
127.5°	291.3	292.5	293.7	294.8	295.2	294.9	294.5	294.1	293.8	293.4	293.0
130°	306.5	307.8	309.1	310.4	311.0	310.8	310.6	310.4	310.2	310.0	309.8
132.5°	323.1	324.2	325.3	326.3	326.9	326.9	327.0	327.0	327.0	326.6	326.2
135°	345.7	346.8	347.9	349.0	349.6	349.8	350.0	350.2	350.4	350.3	350.2
137.5°	369.1	370.0	370.9	371.8	372.4	372.7	373.0	373.2	373.5	373.4	373.3
140°	383.4	384.4	385.3	386.2	386.9	387.4	387.9	388.4	388.9	388.9	388.9
142.5°	398.1	399.0	399.9	400.8	401.4	401.7	402.1	402.4	402.8	402.9	402.9
145°	418.9	419.6	420.3	421.0	421.7	422.3	422.9	423.5	424.1	424.2	424.3
147.5°	437.8	438.7	439.5	440.4	441.0	441.4	441.8	442.2	442.6	442.8	443.0
150°	450.4	451.0	451.6	452.2	452.7	453.1	453.5	453.9	454.3	454.6	454.9
152.5°	461.7	462.3	462.9	463.5	464.1	464.5	465.0	465.5	466.1	466.5	466.8
155°	478.4	478.7	479.1	479.4	479.7	480.0	480.3	480.6	480.9	481.4	481.9
157.5°	492.9	493.1	493.3	493.5	493.6	493.8	494.0	494.2	494.4	495.1	495.7
160°	501.7	501.9	502.1	502.3	502.4	502.5	502.6	502.7	502.8	503.4	504.0
162.5°	509.6	509.6	509.6	509.7	509.8	509.9	510.0	510.1	510.2	510.8	511.5
165°	520.1	520.0	519.9	519.8	519.8	519.8	519.8	519.8	519.8	520.5	521.2
167.5°	528.9	528.6	528.3	528.0	527.8	527.8	527.8	527.8	527.8	528.5	529.2
170°	533.6	533.3	533.0	532.7	532.5	532.4	532.3	532.2	532.1	532.8	533.5
172.5°	536.9	536.6	536.3	536.0	535.8	535.7	535.6	535.5	535.4	536.1	536.8
175°	541.0	540.7	540.4	540.1	539.8	539.6	539.4	539.2	539.0	539.7	540.4
177.5°	542.7	542.4	542.2	541.9	541.7	541.6	541.4	541.2	541.1	541.6	542.1
180°	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2	542.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1123.4	1127.3	1129.1	1129.1	1131.3	1130.3	1129.4
5°	1187.9	1195.1	1196.6	1203.4	1208.3	1206.8	1207.5
7.5°	1252.1	1263.6	1275.1	1280.2	1281.1	1284.1	1285.3
10°	1291.6	1301.1	1318.8	1316.2	1329.4	1336.9	1324.4
12.5°	1329.7	1342.4	1354.7	1358.1	1365.5	1368.0	1363.0
15°	1364.0	1370.8	1371.6	1369.7	1372.0	1370.1	1362.9
17.5°	1331.9	1320.9	1298.6	1288.0	1279.6	1267.3	1262.3
20°	1278.8	1246.4	1208.7	1193.6	1175.9	1141.1	1149.4
22.5°	1164.2	1127.2	1089.5	1045.4	1024.4	991.5	989.6
25°	985.8	922.1	851.9	802.8	774.3	741.4	727.1
27.5°	766.5	686.2	628.7	599.7	573.1	547.1	546.0
30°	622.3	561.9	517.5	492.5	476.4	465.3	467.7
32.5°	524.5	483.1	453.1	432.5	420.5	412.2	412.1
35°	428.8	400.5	381.2	372.6	364.0	357.9	358.3
37.5°	367.0	349.9	339.2	329.7	324.3	321.3	319.6
40°	335.3	321.3	313.1	307.4	302.9	298.7	297.9
42.5°	310.2	298.7	290.3	285.9	281.8	278.7	278.0
45°	275.3	265.9	258.3	253.4	251.6	248.9	248.9
47.5°	244.9	235.6	229.7	226.6	223.4	221.7	221.6
50°	224.4	217.2	212.0	210.1	207.4	206.3	205.9
52.5°	206.0	200.7	196.8	195.6	194.4	193.0	193.2
55°	181.0	178.0	176.5	175.3	173.5	171.2	172.7
57.5°	160.0	157.4	153.3	149.8	148.0	146.4	147.0
60°	145.2	139.9	134.6	130.5	129.4	125.9	125.9
62.5°	126.5	119.1	112.6	110.3	109.2	107.6	107.2
65°	97.3	94.3	92.8	91.3	90.5	90.5	89.8
67.5°	80.6	79.4	77.8	77.4	76.6	76.4	76.1
70°	71.3	69.8	69.0	68.7	67.9	68.3	67.2
72.5°	62.2	61.0	60.9	59.9	59.5	59.5	58.7
75°	49.0	49.0	48.7	48.3	47.6	47.2	47.6
77.5°	37.7	37.8	37.1	37.1	37.0	37.1	36.7
80°	30.2	30.5	30.2	29.8	29.4	29.8	29.4
82.5°	23.8	23.3	23.2	23.1	23.1	22.8	22.8
85°	13.5	13.9	13.5	13.2	13.2	13.2	13.5
87.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.0
90°	15.5	15.2	15.1	15.2	15.3	15.5	15.6
92.5°	14.6	14.7	14.7	14.7	14.7	14.8	14.8
95°	29.3	29.3	29.2	29.0	28.8	28.6	28.4
97.5°	49.2	49.2	49.2	49.2	49.2	49.2	49.2
100°	63.1	63.1	63.1	63.0	62.9	62.8	62.7
102.5°	78.4	78.5	78.5	78.4	78.3	78.2	78.1
105°	101.3	101.5	101.6	101.6	101.6	101.6	101.6
107.5°	125.7	125.8	125.6	125.1	124.6	124.2	123.7
110°	142.3	142.3	142.1	141.8	141.5	141.2	140.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	158.8	158.5	158.2	158.0	157.8	157.6	157.4
115°	184.5	184.4	184.2	183.9	183.6	183.3	183.0
117.5°	209.1	208.9	208.6	208.3	208.0	207.7	207.4
120°	226.0	226.0	225.9	225.6	225.3	225.0	224.7
122.5°	242.9	242.6	242.4	242.2	242.0	241.7	241.5
125°	268.1	267.8	267.6	267.5	267.4	267.3	267.2
127.5°	292.7	292.3	292.0	291.5	291.2	290.9	290.6
130°	309.6	309.4	309.1	308.7	308.3	307.9	307.5
132.5°	325.7	325.3	324.9	324.6	324.2	323.9	323.6
135°	350.1	350.0	349.8	349.5	349.2	348.9	348.6
137.5°	373.2	373.2	372.9	372.5	372.1	371.7	371.3
140°	388.9	388.9	388.7	388.3	387.9	387.5	387.1
142.5°	403.0	403.1	402.9	402.5	402.1	401.7	401.3
145°	424.4	424.5	424.3	423.9	423.5	423.1	422.7
147.5°	443.3	443.5	443.4	443.0	442.6	442.2	441.9
150°	455.2	455.6	455.6	455.2	454.9	454.6	454.3
152.5°	467.2	467.6	467.6	467.2	466.8	466.5	466.1
155°	482.4	482.9	483.0	482.7	482.4	482.1	481.8
157.5°	496.4	497.2	497.3	496.8	496.2	495.8	495.3
160°	504.6	505.2	505.3	504.9	504.5	504.1	503.7
162.5°	512.2	512.9	513.0	512.5	512.0	511.5	511.1
165°	521.9	522.6	522.7	522.2	521.7	521.2	520.7
167.5°	529.9	530.6	530.7	530.1	529.6	529.1	528.6
170°	534.2	534.9	535.0	534.4	533.8	533.2	532.6
172.5°	537.6	538.3	538.3	537.7	537.0	536.4	535.8
175°	541.1	541.8	541.9	541.3	540.7	540.1	539.5
177.5°	542.5	543.0	543.0	542.5	542.1	541.6	541.1
180°	542.2	542.2	542.2	542.2	542.2	542.2	542.2

(END OF REPORT)