

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: P331647-830

Luminaire Tested: **S122RDIP-S485D330U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331647-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIP-S485D330U830-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2957.3 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

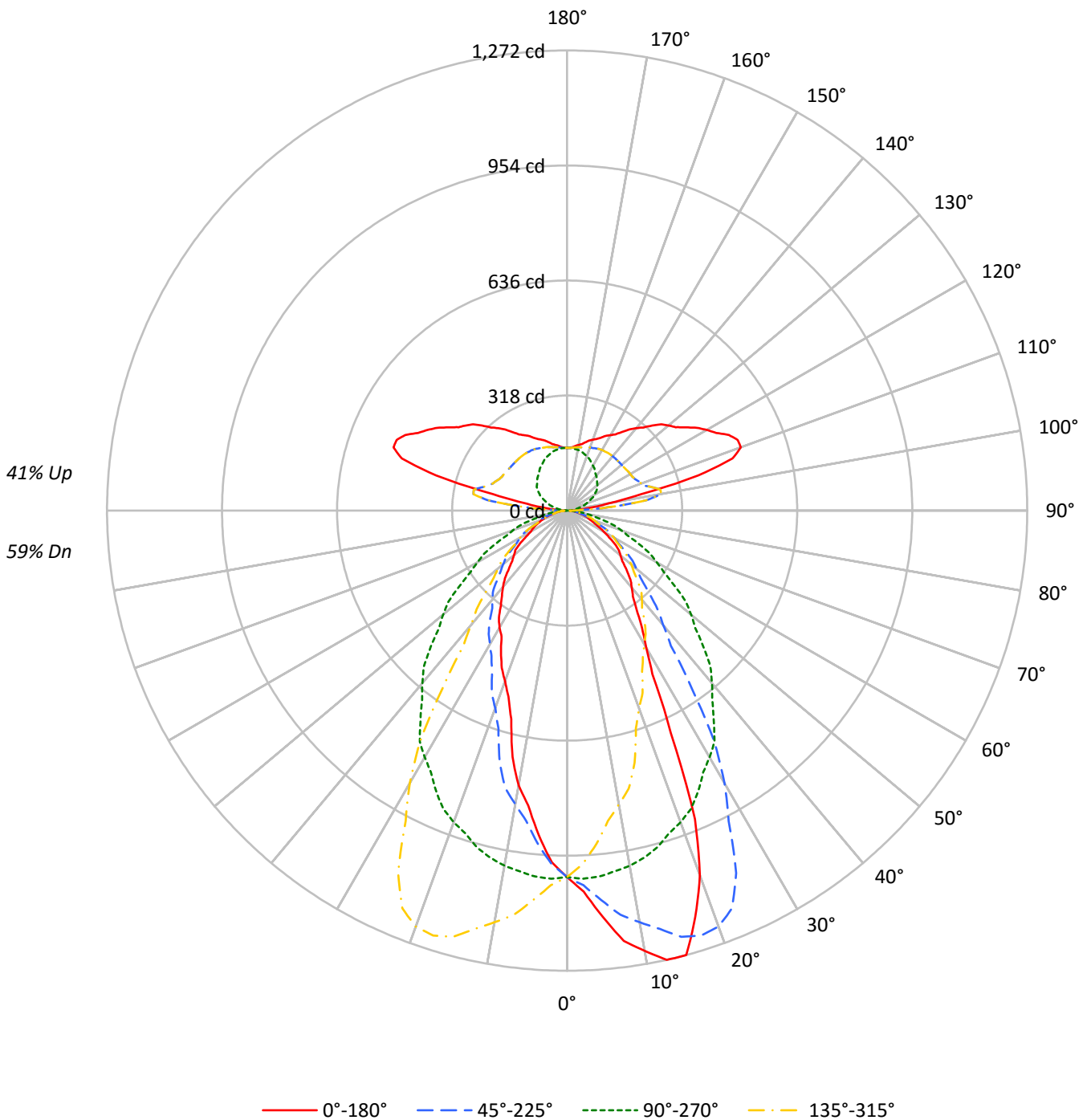
Input Watts (W): 27.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	50	30	10	0													
RCR																																					
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59						59													
1	101	97	93	90	94	91	87	85	79	77	75	68	67	65	59	57	56	52						52													
2	93	86	80	75	86	80	75	71	70	67	63	61	58	56	53	51	49	45						45													
3	85	76	69	64	79	72	66	61	63	58	54	55	52	49	48	45	43	39						39													
4	78	68	61	55	73	64	58	52	57	52	47	50	46	43	43	40	38	35						35													
5	72	61	54	48	68	58	51	46	51	46	42	45	41	38	40	36	34	31						31													
6	67	56	48	42	63	53	46	41	47	41	37	41	37	34	36	33	30	28						28													
7	62	51	43	38	58	48	41	36	43	37	33	38	34	30	34	30	27	25						25													
8	58	46	39	34	55	44	37	33	39	34	30	35	31	27	31	28	25	23						23													
9	55	43	35	31	51	41	34	29	36	31	27	33	28	25	29	25	23	21						21													
10	51	39	32	28	48	38	31	27	34	29	25	30	26	23	27	24	21	19						19													

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

	0°	90°	180°	270°
0°	16356	16356	16356	16356
5°	18266	16459	14593	16459
10°	20266	16342	12650	16342
15°	21264	16104	9967	16104
20°	18433	15747	8624	15747
25°	12089	15262	7701	15262
30°	8138	14673	6969	14673
35°	6591	13931	6286	13931
40°	5861	13122	5817	13122
45°	5304	12177	5190	12177
50°	4828	11235	4808	11235
55°	4538	10196	4479	10196
60°	3794	9242	3749	9242
65°	3202	8390	3629	8390
70°	2960	7492	3423	7492
75°	2770	6519	3163	6519
80°	2548	5365	2817	5365
85°	2334	4242	2482	4242



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.0	3.2
10°-20°	267.6	9.0
20°-30°	344.8	11.7
30°-40°	327.7	11.1
40°-50°	280.7	9.5
50°-60°	213.8	7.2
60°-70°	135.1	4.6
70°-80°	67.5	2.3
80°-90°	19.1	0.6
90°-100°	69.2	2.3
100°-110°	235.0	7.9
110°-120°	249.6	8.4
120°-130°	205.5	6.9
130°-140°	165.0	5.6
140°-150°	124.7	4.2
150°-160°	87.6	3.0
160°-170°	51.6	1.7
170°-180°	16.8	0.6
0°-30°	708.4	24.0
0°-40°	1036.1	35.0
0°-60°	1530.5	51.8
0°-90°	1752.3	59.3
90°-120°	553.8	18.7
90°-150°	1049.0	35.5
90°-180°	1205.0	40.7
0°-180°	2957.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1013	1013	1013	1013	1013	
5°	1127	1016	900	1016	1127	111
15°	1272	963	596	963	1272	343
25°	679	857	432	857	679	322
35°	334	707	319	707	334	214
45°	232	533	227	533	232	180
55°	161	362	159	362	161	141
65°	84	220	95	220	84	85
75°	44	104	51	104	44	47
85°	13	23	13	23	13	14
90°	11	0	11	0	11	6
95°	38	12	38	12	38	49
105°	375	41	375	41	375	363
115°	494	72	494	72	494	484
125°	401	100	401	100	401	362
135°	332	117	332	117	332	258
145°	265	134	265	134	265	168
155°	223	152	223	152	223	104
165°	196	166	196	166	196	56
175°	176	173	176	173	176	17
180°	173	173	173	173	173	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1054.1	1055.0	1055.8	1053.9	1053.9	1052.2	1048.5	1045.7	1037.7	1036.6	1036.6
5°	1127.0	1126.3	1127.8	1123.1	1116.8	1115.4	1108.7	1099.9	1090.8	1080.5	1078.5
7.5°	1199.6	1198.5	1195.7	1194.9	1190.1	1179.4	1168.7	1157.2	1142.0	1127.1	1119.6
10°	1236.1	1247.7	1240.8	1228.4	1230.9	1214.4	1205.5	1190.4	1177.7	1155.6	1150.7
12.5°	1272.1	1276.8	1274.5	1267.5	1264.4	1252.9	1241.0	1227.9	1204.5	1184.6	1167.2
15°	1272.1	1278.7	1280.5	1278.4	1280.2	1279.4	1273.1	1262.2	1241.8	1219.9	1201.0
17.5°	1178.2	1182.8	1194.3	1202.1	1212.0	1232.8	1243.1	1247.2	1244.1	1231.6	1218.2
20°	1072.8	1065.1	1097.5	1114.0	1128.1	1163.3	1193.5	1205.1	1223.8	1223.5	1219.9
22.5°	923.6	925.4	956.1	975.7	1016.9	1052.1	1086.6	1130.3	1166.4	1190.2	1204.2
25°	678.6	692.0	722.6	749.3	795.1	860.6	920.1	989.1	1054.1	1105.6	1154.5
27.5°	509.6	510.7	534.9	559.7	586.8	640.5	715.4	797.8	890.6	967.1	1055.3
30°	436.5	434.3	444.6	459.7	483.0	524.4	580.8	661.8	754.3	869.8	972.5
32.5°	384.7	384.7	392.5	403.7	422.9	450.9	489.6	555.3	642.8	756.3	876.8
35°	334.4	334.0	339.7	347.8	355.8	373.8	400.2	434.7	494.9	600.9	724.1
37.5°	298.3	299.9	302.7	307.7	316.6	326.6	342.5	365.6	408.5	471.2	574.7
40°	278.1	278.8	282.7	286.9	292.2	299.9	312.9	331.6	362.9	412.8	488.5
42.5°	259.5	260.1	263.0	266.8	271.0	278.8	289.5	305.7	331.1	370.0	432.5
45°	232.3	232.3	234.8	236.5	241.1	248.2	256.9	270.3	287.9	316.8	358.4
47.5°	206.8	206.9	208.5	211.5	214.4	219.9	228.6	239.5	252.3	274.7	310.1
50°	192.2	192.6	193.6	196.0	197.8	202.7	209.4	219.0	232.3	249.6	279.1
52.5°	180.3	180.1	181.4	182.6	183.7	187.3	192.3	200.7	212.6	227.6	252.1
55°	161.2	159.8	161.9	163.6	164.8	166.2	168.9	174.3	184.5	197.1	215.4
57.5°	137.2	136.7	138.2	139.8	143.1	146.9	149.3	152.7	158.0	167.0	185.2
60°	117.5	117.5	120.7	121.8	125.6	130.5	135.5	138.4	143.6	149.6	163.0
62.5°	100.1	100.4	101.9	102.9	105.1	111.1	118.1	124.2	129.2	135.0	143.8
65°	83.8	84.5	84.5	85.2	86.6	88.0	90.8	95.8	104.5	112.6	119.3
67.5°	71.1	71.4	71.5	72.2	72.6	74.1	75.2	77.5	79.5	87.2	95.5
70°	62.7	63.7	63.3	64.1	64.4	65.1	66.5	67.6	70.8	72.5	77.5
72.5°	54.8	55.5	55.5	55.9	56.8	56.9	58.1	59.1	61.2	62.7	65.3
75°	44.4	44.0	44.4	45.1	45.4	45.7	45.7	47.1	48.3	49.7	51.4
77.5°	34.2	34.6	34.5	34.6	34.6	35.3	35.2	35.8	36.9	37.6	38.5
80°	27.4	27.8	27.4	27.8	28.2	28.5	28.2	28.5	29.6	30.3	30.3
82.5°	21.3	21.3	21.6	21.6	21.7	21.8	22.2	22.3	23.1	22.9	23.2
85°	12.6	12.3	12.3	12.3	12.6	13.0	12.6	12.6	13.0	13.0	13.0
87.5°	6.7	7.0	7.0	7.0	7.0	6.9	6.8	7.2	7.0	7.4	7.0
90°	11.0	11.0	11.0	11.0	11.0	10.7	10.0	10.7	11.0	11.3	11.0
92.5°	18.5	18.9	18.8	19.8	20.1	22.1	24.9	29.0	36.6	43.3	42.7
95°	38.0	37.6	38.6	41.3	45.6	53.0	66.9	87.3	114.2	130.5	115.6
97.5°	74.7	77.6	82.4	90.6	106.5	130.5	166.5	203.6	233.8	222.8	167.9
100°	119.2	125.3	134.9	149.2	176.8	217.2	262.8	304.1	311.0	263.1	181.2
102.5°	209.8	217.9	230.0	254.4	284.5	327.2	360.5	369.9	339.8	264.4	176.1
105°	375.3	379.9	394.3	414.9	435.6	446.6	442.2	404.6	335.4	246.8	166.2
107.5°	479.5	485.6	488.5	489.7	487.0	470.9	436.3	379.6	306.1	227.8	161.3
110°	510.9	511.2	508.2	501.9	487.6	460.2	417.6	358.0	287.8	218.8	160.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	510.3	508.5	502.8	492.3	472.4	441.0	395.5	338.3	274.9	212.9	160.4
115°	493.9	490.9	482.2	466.9	443.3	409.0	365.3	314.1	259.1	206.5	161.8
117.5°	464.5	461.9	452.9	436.7	412.6	380.4	340.8	295.8	249.1	203.3	164.3
120°	445.6	442.2	432.6	417.0	393.6	363.4	328.0	286.7	243.7	201.5	165.9
122.5°	425.8	423.1	414.5	399.1	378.1	350.8	317.4	279.6	239.2	200.4	167.7
125°	400.7	397.9	389.6	377.0	357.7	332.7	303.4	269.1	232.8	198.5	170.5
127.5°	378.5	376.4	369.2	357.3	340.4	317.4	289.8	258.7	226.8	197.4	173.3
130°	366.0	363.4	356.7	345.3	329.0	307.1	280.8	252.1	222.8	196.8	175.5
132.5°	353.0	350.5	344.4	333.1	317.1	296.4	272.2	245.7	219.6	196.5	177.7
135°	332.1	330.7	324.7	313.7	299.4	280.8	258.7	236.8	215.1	196.1	180.2
137.5°	311.5	309.5	304.3	294.8	281.7	265.5	248.1	229.7	212.0	196.0	182.5
140°	297.4	295.4	290.4	281.7	271.1	256.5	241.1	225.1	210.1	195.9	183.5
142.5°	283.2	282.9	278.4	270.5	260.4	248.2	235.0	221.4	208.3	195.9	184.3
145°	265.0	264.1	260.8	255.1	247.1	237.4	227.2	216.1	205.9	195.1	185.1
147.5°	249.9	249.2	246.9	242.4	235.8	228.8	220.7	212.1	203.3	194.0	185.4
150°	240.8	240.4	238.5	234.4	229.4	223.5	216.5	209.2	201.1	193.1	185.1
152.5°	233.1	233.0	231.5	228.1	224.1	219.0	213.0	206.2	199.3	191.8	184.6
155°	222.8	223.5	222.2	219.8	216.1	212.4	207.5	202.2	195.9	189.5	183.8
157.5°	214.1	214.1	213.5	211.5	209.0	206.0	201.9	197.5	192.6	187.1	182.3
160°	208.5	208.5	208.1	206.5	204.2	201.8	198.1	194.4	190.1	185.5	181.5
162.5°	203.1	203.4	203.1	202.0	199.6	197.8	194.7	191.5	188.0	184.2	180.7
165°	195.5	195.9	195.9	194.4	193.1	191.8	189.5	187.2	184.5	181.5	179.2
167.5°	188.4	188.8	188.9	188.1	187.6	186.3	184.7	182.9	181.1	179.2	177.7
170°	184.2	184.8	185.1	184.2	183.8	183.1	181.8	180.9	179.2	177.9	176.8
172.5°	180.7	181.1	181.4	181.0	180.6	180.2	179.2	178.4	177.3	176.3	175.8
175°	176.2	176.8	177.2	176.8	176.8	176.5	176.2	175.9	174.8	174.5	174.2
177.5°	173.4	174.0	174.3	174.3	174.3	174.3	174.0	174.0	173.4	173.1	173.4
180°	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1037.2	1035.0	1033.0	1027.9	1025.4	1019.7	1018.9	1018.6	1011.3	1004.3	1002.3
5°	1072.8	1067.2	1058.8	1048.9	1038.7	1028.1	1021.1	1015.5	1001.4	988.0	980.2
7.5°	1108.7	1096.6	1082.0	1063.4	1047.8	1030.4	1017.5	1005.8	985.8	966.7	953.8
10°	1135.5	1115.8	1096.5	1070.7	1050.7	1031.0	1012.7	996.8	974.3	949.0	930.9
12.5°	1152.1	1130.4	1103.7	1078.6	1052.6	1027.6	1003.1	982.7	956.3	930.1	908.7
15°	1174.6	1151.3	1119.0	1083.1	1049.6	1016.9	988.7	963.4	928.9	897.6	871.5
17.5°	1193.0	1160.9	1126.1	1084.7	1045.9	1004.4	968.1	935.7	897.3	859.5	828.9
20°	1198.8	1167.2	1127.0	1085.5	1039.7	990.8	951.8	916.5	875.3	834.2	799.0
22.5°	1195.1	1170.5	1125.9	1076.2	1029.4	978.2	934.1	893.2	847.5	805.5	764.7
25°	1170.4	1161.9	1119.6	1065.5	1011.9	952.4	901.4	856.7	804.6	759.6	715.2
27.5°	1112.4	1130.7	1104.5	1046.7	987.2	923.4	866.1	815.2	761.1	710.4	666.2
30°	1056.7	1098.5	1087.2	1033.8	967.2	904.6	840.2	787.0	729.3	677.2	633.6
32.5°	980.3	1049.5	1060.5	1015.8	947.0	878.1	810.6	757.7	697.5	642.5	600.0
35°	858.8	962.3	1009.8	981.3	912.3	838.1	768.4	706.8	646.2	592.0	549.8
37.5°	713.9	854.8	934.1	936.0	872.7	795.5	719.6	658.5	596.4	543.3	497.6
40°	619.8	772.6	875.7	898.6	845.1	761.7	684.9	622.6	562.1	510.0	457.6
42.5°	535.4	687.6	814.4	854.1	811.6	728.8	651.8	586.6	527.7	478.4	424.9
45°	432.9	566.0	705.7	776.8	753.3	676.5	595.2	533.3	478.0	435.4	384.0
47.5°	365.2	459.0	594.2	690.4	689.9	619.9	540.0	480.6	429.3	389.5	347.8
50°	326.6	408.3	522.7	631.8	640.9	582.2	506.1	447.3	399.5	357.6	324.1
52.5°	292.0	359.3	462.1	566.8	592.8	541.9	468.2	413.9	367.4	328.9	300.2
55°	246.8	298.8	377.0	474.9	514.3	478.3	412.8	362.2	324.5	292.2	267.5
57.5°	208.7	247.8	310.5	389.3	435.2	412.6	358.6	317.4	285.2	255.9	236.5
60°	184.8	216.8	269.9	335.8	386.4	370.6	324.5	286.2	258.7	233.4	215.1
62.5°	162.3	189.8	235.4	288.8	335.3	328.7	291.1	258.8	234.8	211.7	196.2
65°	130.5	150.6	186.2	228.1	265.4	268.5	241.5	219.6	198.1	179.8	166.2
67.5°	104.0	117.1	142.1	177.4	205.4	215.4	198.8	182.1	165.0	150.9	139.0
70°	87.7	98.2	116.5	145.1	170.7	181.3	171.7	158.7	143.9	132.3	122.2
72.5°	71.1	81.3	94.8	115.7	137.8	149.2	145.9	136.5	124.5	114.9	105.3
75°	53.5	56.6	65.8	79.9	97.2	107.0	109.4	104.5	95.0	87.7	82.0
77.5°	39.6	41.5	45.8	53.3	64.5	73.2	76.9	76.3	69.7	65.5	60.2
80°	31.7	32.7	34.9	38.0	46.5	55.2	57.7	57.7	53.2	51.4	46.1
82.5°	24.0	24.9	26.1	27.9	31.9	39.5	42.2	42.8	39.9	37.6	33.5
85°	13.8	13.4	14.0	15.2	15.8	17.9	22.1	22.9	22.1	19.3	18.3
87.5°	6.6	6.4	6.0	5.6	5.7	5.8	7.1	8.2	7.4	6.7	6.3
90°	9.0	6.7	5.0	4.0	3.3	2.6	1.3	0.4	1.3	2.6	3.3
92.5°	33.3	22.6	15.1	12.0	9.7	8.3	5.8	4.1	5.8	8.3	9.7
95°	76.9	48.0	32.6	24.6	19.3	16.3	13.0	11.7	13.0	16.3	19.3
97.5°	103.7	63.2	44.0	35.0	28.8	24.3	20.7	18.9	20.7	24.3	28.8
100°	109.2	68.6	51.0	41.7	35.0	29.6	26.7	25.6	26.7	29.6	35.0
102.5°	109.5	73.4	57.1	47.8	40.8	35.5	32.5	31.8	32.5	35.5	40.8
105°	111.2	81.6	66.0	56.6	49.3	44.3	41.9	40.6	41.9	44.3	49.3
107.5°	115.8	90.0	74.8	65.4	58.2	53.5	51.3	50.2	51.3	53.5	58.2
110°	119.5	95.6	81.0	71.3	64.3	59.9	58.0	56.6	58.0	59.9	64.3





TEST NUMBER: P331647-830

CATALOG NUMBER: S122RDIP-S485D330U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	123.6	100.9	86.8	76.8	70.1	66.1	63.8	62.5	63.8	66.1	70.1
115°	129.5	109.2	94.9	86.0	79.3	75.3	73.2	71.6	73.2	75.3	79.3
117.5°	135.9	116.9	103.7	94.3	87.9	84.4	82.4	81.1	82.4	84.4	87.9
120°	140.3	122.2	109.2	99.9	93.2	90.3	88.2	86.9	88.2	90.3	93.2
122.5°	143.9	127.2	115.1	105.5	98.9	95.6	93.6	92.6	93.6	95.6	98.9
125°	149.9	134.9	122.9	113.6	106.9	102.9	100.9	99.9	100.9	102.9	106.9
127.5°	155.4	141.9	130.3	120.6	114.3	109.9	107.1	105.8	107.1	109.9	114.3
130°	158.8	146.2	134.5	125.3	118.6	113.9	110.6	109.2	110.6	113.9	118.6
132.5°	162.3	150.0	138.8	129.5	122.5	117.6	114.0	112.4	114.0	117.6	122.5
135°	166.8	155.2	144.5	135.3	127.5	122.5	118.6	117.3	118.6	122.5	127.5
137.5°	170.3	159.5	148.9	140.3	132.7	127.3	123.4	121.8	123.4	127.3	132.7
140°	172.2	161.8	151.8	143.2	135.9	130.5	126.6	125.3	126.6	130.5	135.9
142.5°	173.8	163.7	154.0	145.9	138.8	133.5	129.8	128.7	129.8	133.5	138.8
145°	175.9	166.5	157.5	150.2	143.5	138.6	135.3	133.8	135.3	138.6	143.5
147.5°	177.0	168.8	160.3	153.8	148.3	143.6	140.4	139.5	140.4	143.6	148.3
150°	177.5	169.8	162.2	156.2	151.2	146.8	144.2	143.2	144.2	146.8	151.2
152.5°	177.8	170.9	164.0	158.6	153.8	150.1	147.4	146.9	147.4	150.1	153.8
155°	178.1	172.5	166.8	161.8	158.2	154.5	152.5	152.2	152.5	154.5	158.2
157.5°	178.1	173.6	168.8	164.7	161.7	158.5	156.9	156.6	156.9	158.5	161.7
160°	178.1	174.2	170.2	166.5	163.8	161.2	159.9	159.5	159.9	161.2	163.8
162.5°	177.9	174.5	171.0	168.1	165.7	163.6	162.2	162.5	162.2	163.6	165.7
165°	177.2	174.8	171.8	169.8	168.1	166.2	165.5	165.9	165.5	166.2	168.1
167.5°	176.7	174.7	172.6	171.4	170.1	168.8	168.2	168.6	168.2	168.8	170.1
170°	176.2	174.5	172.9	171.8	171.2	170.2	169.8	170.5	169.8	170.2	171.2
172.5°	175.4	174.3	173.1	172.4	172.0	171.0	171.2	171.5	171.2	171.0	172.0
175°	174.5	173.8	173.1	172.9	172.9	172.2	172.5	172.9	172.5	172.2	172.9
177.5°	174.0	173.4	173.1	173.1	173.1	172.7	172.9	173.4	172.9	172.7	173.1
180°	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1



TEST NUMBER: P331647-830

CATALOG NUMBER: S122RDIP-S485D330U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	998.6	996.6	993.0	987.4	984.0	978.1	974.1	976.4	976.9	976.4	975.8
5°	971.9	964.4	954.2	944.3	935.2	925.4	919.7	917.3	912.3	909.6	908.1
7.5°	939.3	926.6	912.2	895.0	880.4	865.2	857.3	853.5	843.4	837.9	833.1
10°	915.1	895.0	880.6	858.1	844.4	824.3	810.6	811.0	797.2	789.5	783.8
12.5°	888.4	866.4	842.4	822.1	803.0	786.9	770.3	763.6	749.0	741.6	726.4
15°	844.0	818.3	793.1	765.5	746.2	721.2	697.3	668.1	644.5	624.1	618.4
17.5°	795.6	763.8	738.4	706.2	673.0	630.9	603.2	586.3	572.0	561.3	553.3
20°	762.4	730.0	702.9	654.3	609.6	581.1	560.7	547.7	532.9	521.3	514.9
22.5°	727.5	693.7	656.8	602.5	567.7	544.8	526.6	511.6	501.6	492.6	486.8
25°	677.9	640.9	580.0	542.7	514.6	490.7	478.0	468.8	458.3	445.9	440.4
27.5°	625.6	566.8	523.0	495.3	468.4	452.9	441.5	427.8	418.4	412.8	407.0
30°	586.4	527.6	493.5	463.2	444.2	427.0	413.6	405.9	396.7	387.2	383.3
32.5°	542.7	495.8	463.1	437.9	418.6	403.9	393.3	380.8	374.2	368.3	360.2
35°	488.5	453.0	423.1	402.7	384.4	372.4	360.1	352.7	340.7	335.8	332.6
37.5°	442.6	411.8	389.5	368.0	353.5	340.3	332.7	320.9	315.8	308.9	302.2
40°	416.7	386.4	365.0	347.4	331.2	321.3	311.9	302.4	294.6	291.4	283.3
42.5°	390.3	365.6	344.1	324.9	314.1	303.6	291.6	284.6	276.5	271.5	266.5
45°	353.7	332.0	313.6	297.7	285.8	274.9	267.1	255.5	251.0	240.7	236.5
47.5°	321.6	301.3	283.9	268.8	257.1	250.1	238.7	229.6	222.3	216.0	210.7
50°	298.8	281.9	265.0	251.7	241.1	230.9	219.3	214.7	203.4	200.3	197.1
52.5°	278.0	261.9	246.5	233.4	222.8	212.9	202.6	196.7	189.1	185.9	183.6
55°	248.8	233.4	218.6	207.0	196.4	186.2	179.8	172.5	168.9	166.5	163.6
57.5°	219.5	205.7	194.3	182.6	171.9	163.8	156.5	152.0	148.4	145.2	141.8
60°	201.0	187.6	177.4	166.5	155.6	148.9	143.3	138.0	133.7	128.8	127.4
62.5°	181.3	169.6	160.2	149.6	140.1	133.9	128.7	123.7	118.6	111.4	109.4
65°	154.2	145.1	135.2	126.4	117.9	112.0	104.2	98.6	96.4	95.8	95.4
67.5°	129.7	121.0	112.5	103.6	95.9	90.3	86.3	85.5	84.1	83.6	82.7
70°	113.3	105.3	96.8	88.3	81.0	79.9	78.5	77.1	75.3	74.6	73.9
72.5°	98.7	90.3	81.9	75.1	71.9	70.6	69.2	67.8	66.6	65.9	65.5
75°	75.7	68.0	62.3	59.9	58.1	57.0	55.0	53.8	53.2	52.1	51.7
77.5°	54.5	50.1	47.5	46.0	44.1	43.0	41.8	40.7	40.0	39.8	39.2
80°	41.6	39.4	37.7	35.5	34.9	33.5	33.1	32.0	32.4	31.3	31.3
82.5°	32.2	29.6	28.1	27.1	26.4	25.3	24.9	24.4	24.5	23.8	23.8
85°	16.6	15.8	15.2	14.4	14.4	13.4	13.8	13.4	13.4	12.6	12.3
87.5°	6.1	6.0	5.8	6.3	6.7	6.5	6.4	6.0	5.9	6.0	5.8
90°	4.0	5.0	6.7	9.0	11.0	11.3	11.0	10.7	10.0	10.7	11.0
92.5°	12.0	15.1	22.6	33.3	42.7	43.3	36.6	29.0	24.9	22.1	20.1
95°	24.6	32.6	48.0	76.9	115.6	130.5	114.2	87.3	66.9	53.0	45.6
97.5°	35.0	44.0	63.2	103.7	167.9	222.8	233.8	203.6	166.5	130.5	106.5
100°	41.7	51.0	68.6	109.2	181.2	263.1	311.0	304.1	262.8	217.2	176.8
102.5°	47.8	57.1	73.4	109.5	176.1	264.4	339.8	369.9	360.5	327.2	284.5
105°	56.6	66.0	81.6	111.2	166.2	246.8	335.4	404.6	442.2	446.6	435.6
107.5°	65.4	74.8	90.0	115.8	161.3	227.8	306.1	379.6	436.3	470.9	487.0
110°	71.3	81.0	95.6	119.5	160.2	218.8	287.8	358.0	417.6	460.2	487.6



TEST NUMBER: P331647-830

CATALOG NUMBER: S122RDIP-S485D330U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	76.8	86.8	100.9	123.6	160.4	212.9	274.9	338.3	395.5	441.0	472.4
115°	86.0	94.9	109.2	129.5	161.8	206.5	259.1	314.1	365.3	409.0	443.3
117.5°	94.3	103.7	116.9	135.9	164.3	203.3	249.1	295.8	340.8	380.4	412.6
120°	99.9	109.2	122.2	140.3	165.9	201.5	243.7	286.7	328.0	363.4	393.6
122.5°	105.5	115.1	127.2	143.9	167.7	200.4	239.2	279.6	317.4	350.8	378.1
125°	113.6	122.9	134.9	149.9	170.5	198.5	232.8	269.1	303.4	332.7	357.7
127.5°	120.6	130.3	141.9	155.4	173.3	197.4	226.8	258.7	289.8	317.4	340.4
130°	125.3	134.5	146.2	158.8	175.5	196.8	222.8	252.1	280.8	307.1	329.0
132.5°	129.5	138.8	150.0	162.3	177.7	196.5	219.6	245.7	272.2	296.4	317.1
135°	135.3	144.5	155.2	166.8	180.2	196.1	215.1	236.8	258.7	280.8	299.4
137.5°	140.3	148.9	159.5	170.3	182.5	196.0	212.0	229.7	248.1	265.5	281.7
140°	143.2	151.8	161.8	172.2	183.5	195.9	210.1	225.1	241.1	256.5	271.1
142.5°	145.9	154.0	163.7	173.8	184.3	195.9	208.3	221.4	235.0	248.2	260.4
145°	150.2	157.5	166.5	175.9	185.1	195.1	205.9	216.1	227.2	237.4	247.1
147.5°	153.8	160.3	168.8	177.0	185.4	194.0	203.3	212.1	220.7	228.8	235.8
150°	156.2	162.2	169.8	177.5	185.1	193.1	201.1	209.2	216.5	223.5	229.4
152.5°	158.6	164.0	170.9	177.8	184.6	191.8	199.3	206.2	213.0	219.0	224.1
155°	161.8	166.8	172.5	178.1	183.8	189.5	195.9	202.2	207.5	212.4	216.1
157.5°	164.7	168.8	173.6	178.1	182.3	187.1	192.6	197.5	201.9	206.0	209.0
160°	166.5	170.2	174.2	178.1	181.5	185.5	190.1	194.4	198.1	201.8	204.2
162.5°	168.1	171.0	174.5	177.9	180.7	184.2	188.0	191.5	194.7	197.8	199.6
165°	169.8	171.8	174.8	177.2	179.2	181.5	184.5	187.2	189.5	191.8	193.1
167.5°	171.4	172.6	174.7	176.7	177.7	179.2	181.1	182.9	184.7	186.3	187.6
170°	171.8	172.9	174.5	176.2	176.8	177.9	179.2	180.9	181.8	183.1	183.8
172.5°	172.4	173.1	174.3	175.4	175.8	176.3	177.3	178.4	179.2	180.2	180.6
175°	172.9	173.1	173.8	174.5	174.2	174.5	174.8	175.9	176.2	176.5	176.8
177.5°	173.1	173.1	173.4	174.0	173.4	173.1	173.4	174.0	174.0	174.3	174.3
180°	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1



TEST NUMBER: P331647-830

CATALOG NUMBER: S122RDIP-S485D330U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	972.7	973.3	972.4	973.0	972.4	973.3	972.7	975.8	976.4	976.9	976.4
5°	906.3	902.1	901.4	900.4	901.4	902.1	906.3	908.1	909.6	912.3	917.3
7.5°	827.1	826.4	824.7	822.2	824.7	826.4	827.1	833.1	837.9	843.4	853.5
10°	776.1	774.4	774.0	771.6	774.0	774.4	776.1	783.8	789.5	797.2	811.0
12.5°	716.4	705.1	703.9	697.8	703.9	705.1	716.4	726.4	741.6	749.0	763.6
15°	610.0	607.8	600.9	596.3	600.9	607.8	610.0	618.4	624.1	644.5	668.1
17.5°	549.1	542.2	540.1	539.1	540.1	542.2	549.1	553.3	561.3	572.0	586.3
20°	510.0	503.7	502.7	501.9	502.7	503.7	510.0	514.9	521.3	532.9	547.7
22.5°	483.0	476.4	473.6	471.6	473.6	476.4	483.0	486.8	492.6	501.6	511.6
25°	436.8	434.3	432.9	432.3	432.9	434.3	436.8	440.4	445.9	458.3	468.8
27.5°	400.7	395.3	394.2	392.4	394.2	395.3	400.7	407.0	412.8	418.4	427.8
30°	380.1	378.3	375.9	373.8	375.9	378.3	380.1	383.3	387.2	396.7	405.9
32.5°	355.9	354.5	352.2	351.3	352.2	354.5	355.9	360.2	368.3	374.2	380.8
35°	329.1	324.1	322.1	318.9	322.1	324.1	329.1	332.6	335.8	340.7	352.7
37.5°	300.8	298.1	295.2	296.2	295.2	298.1	300.8	302.2	308.9	315.8	320.9
40°	278.8	277.0	276.3	276.0	276.3	277.0	278.8	283.3	291.4	294.6	302.4
42.5°	261.3	256.5	254.6	254.6	254.6	256.5	261.3	266.5	271.5	276.5	284.6
45°	234.8	230.2	227.1	227.3	227.1	230.2	234.8	236.5	240.7	251.0	255.5
47.5°	207.6	207.5	205.5	206.1	205.5	207.5	207.6	210.7	216.0	222.3	229.6
50°	194.6	192.6	191.1	191.4	191.1	192.6	194.6	197.1	200.3	203.4	214.7
52.5°	182.3	180.4	179.3	180.8	179.3	180.4	182.3	183.6	185.9	189.1	196.7
55°	161.9	159.8	159.5	159.1	159.5	159.8	161.9	163.6	166.5	168.9	172.5
57.5°	139.2	137.8	135.6	134.8	135.6	137.8	139.2	141.8	145.2	148.4	152.0
60°	122.8	120.0	116.5	116.1	116.5	120.0	122.8	127.4	128.8	133.7	138.0
62.5°	107.9	107.4	106.7	106.6	106.7	107.4	107.9	109.4	111.4	118.6	123.7
65°	94.7	94.3	94.7	95.0	94.7	94.3	94.7	95.4	95.8	96.4	98.6
67.5°	82.5	81.9	81.2	81.5	81.2	81.9	82.5	82.7	83.6	84.1	85.5
70°	73.2	72.9	72.5	72.5	72.5	72.9	73.2	73.9	74.6	75.3	77.1
72.5°	64.2	64.1	63.8	63.5	63.8	64.1	64.2	65.5	65.9	66.6	67.8
75°	51.4	50.7	50.7	50.7	50.7	50.7	51.4	51.7	52.1	53.2	53.8
77.5°	39.1	38.8	38.5	38.2	38.5	38.8	39.1	39.2	39.8	40.0	40.7
80°	31.0	30.6	30.3	30.3	30.3	30.6	31.0	31.3	31.3	32.4	32.0
82.5°	23.7	23.3	23.2	22.9	23.2	23.3	23.7	23.8	23.8	24.5	24.4
85°	12.6	13.0	12.6	13.4	12.6	13.0	12.6	12.3	12.6	13.4	13.4
87.5°	5.8	5.6	5.8	5.6	5.8	5.6	5.8	5.8	6.0	5.9	6.0
90°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	10.7	10.0	10.7
92.5°	19.8	18.8	18.9	18.5	18.9	18.8	19.8	20.1	22.1	24.9	29.0
95°	41.3	38.6	37.6	38.0	37.6	38.6	41.3	45.6	53.0	66.9	87.3
97.5°	90.6	82.4	77.6	74.7	77.6	82.4	90.6	106.5	130.5	166.5	203.6
100°	149.2	134.9	125.3	119.2	125.3	134.9	149.2	176.8	217.2	262.8	304.1
102.5°	254.4	230.0	217.9	209.8	217.9	230.0	254.4	284.5	327.2	360.5	369.9
105°	414.9	394.3	379.9	375.3	379.9	394.3	414.9	435.6	446.6	442.2	404.6
107.5°	489.7	488.5	485.6	479.5	485.6	488.5	489.7	487.0	470.9	436.3	379.6
110°	501.9	508.2	511.2	510.9	511.2	508.2	501.9	487.6	460.2	417.6	358.0



TEST NUMBER: P331647-830

CATALOG NUMBER: S122RDIP-S485D330U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	492.3	502.8	508.5	510.3	508.5	502.8	492.3	472.4	441.0	395.5	338.3
115°	466.9	482.2	490.9	493.9	490.9	482.2	466.9	443.3	409.0	365.3	314.1
117.5°	436.7	452.9	461.9	464.5	461.9	452.9	436.7	412.6	380.4	340.8	295.8
120°	417.0	432.6	442.2	445.6	442.2	432.6	417.0	393.6	363.4	328.0	286.7
122.5°	399.1	414.5	423.1	425.8	423.1	414.5	399.1	378.1	350.8	317.4	279.6
125°	377.0	389.6	397.9	400.7	397.9	389.6	377.0	357.7	332.7	303.4	269.1
127.5°	357.3	369.2	376.4	378.5	376.4	369.2	357.3	340.4	317.4	289.8	258.7
130°	345.3	356.7	363.4	366.0	363.4	356.7	345.3	329.0	307.1	280.8	252.1
132.5°	333.1	344.4	350.5	353.0	350.5	344.4	333.1	317.1	296.4	272.2	245.7
135°	313.7	324.7	330.7	332.1	330.7	324.7	313.7	299.4	280.8	258.7	236.8
137.5°	294.8	304.3	309.5	311.5	309.5	304.3	294.8	281.7	265.5	248.1	229.7
140°	281.7	290.4	295.4	297.4	295.4	290.4	281.7	271.1	256.5	241.1	225.1
142.5°	270.5	278.4	282.9	283.2	282.9	278.4	270.5	260.4	248.2	235.0	221.4
145°	255.1	260.8	264.1	265.0	264.1	260.8	255.1	247.1	237.4	227.2	216.1
147.5°	242.4	246.9	249.2	249.9	249.2	246.9	242.4	235.8	228.8	220.7	212.1
150°	234.4	238.5	240.4	240.8	240.4	238.5	234.4	229.4	223.5	216.5	209.2
152.5°	228.1	231.5	233.0	233.1	233.0	231.5	228.1	224.1	219.0	213.0	206.2
155°	219.8	222.2	223.5	222.8	223.5	222.2	219.8	216.1	212.4	207.5	202.2
157.5°	211.5	213.5	214.1	214.1	214.1	213.5	211.5	209.0	206.0	201.9	197.5
160°	206.5	208.1	208.5	208.5	208.5	208.1	206.5	204.2	201.8	198.1	194.4
162.5°	202.0	203.1	203.4	203.1	203.4	203.1	202.0	199.6	197.8	194.7	191.5
165°	194.4	195.9	195.9	195.5	195.9	195.9	194.4	193.1	191.8	189.5	187.2
167.5°	188.1	188.9	188.8	188.4	188.8	188.9	188.1	187.6	186.3	184.7	182.9
170°	184.2	185.1	184.8	184.2	184.8	185.1	184.2	183.8	183.1	181.8	180.9
172.5°	181.0	181.4	181.1	180.7	181.1	181.4	181.0	180.6	180.2	179.2	178.4
175°	176.8	177.2	176.8	176.2	176.8	177.2	176.8	176.8	176.5	176.2	175.9
177.5°	174.3	174.3	174.0	173.4	174.0	174.3	174.3	174.3	174.3	174.0	174.0
180°	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1



TEST NUMBER: P331647-830

CATALOG NUMBER: S122RDIP-S485D330U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	974.1	978.1	984.0	987.4	993.0	996.6	998.6	1002.3	1004.3	1011.3	1018.6
5°	919.7	925.4	935.2	944.3	954.2	964.4	971.9	980.2	988.0	1001.4	1015.5
7.5°	857.3	865.2	880.4	895.0	912.2	926.6	939.3	953.8	966.7	985.8	1005.8
10°	810.6	824.3	844.4	858.1	880.6	895.0	915.1	930.9	949.0	974.3	996.8
12.5°	770.3	786.9	803.0	822.1	842.4	866.4	888.4	908.7	930.1	956.3	982.7
15°	697.3	721.2	746.2	765.5	793.1	818.3	844.0	871.5	897.6	928.9	963.4
17.5°	603.2	630.9	673.0	706.2	738.4	763.8	795.6	828.9	859.5	897.3	935.7
20°	560.7	581.1	609.6	654.3	702.9	730.0	762.4	799.0	834.2	875.3	916.5
22.5°	526.6	544.8	567.7	602.5	656.8	693.7	727.5	764.7	805.5	847.5	893.2
25°	478.0	490.7	514.6	542.7	580.0	640.9	677.9	715.2	759.6	804.6	856.7
27.5°	441.5	452.9	468.4	495.3	523.0	566.8	625.6	666.2	710.4	761.1	815.2
30°	413.6	427.0	444.2	463.2	493.5	527.6	586.4	633.6	677.2	729.3	787.0
32.5°	393.3	403.9	418.6	437.9	463.1	495.8	542.7	600.0	642.5	697.5	757.7
35°	360.1	372.4	384.4	402.7	423.1	453.0	488.5	549.8	592.0	646.2	706.8
37.5°	332.7	340.3	353.5	368.0	389.5	411.8	442.6	497.6	543.3	596.4	658.5
40°	311.9	321.3	331.2	347.4	365.0	386.4	416.7	457.6	510.0	562.1	622.6
42.5°	291.6	303.6	314.1	324.9	344.1	365.6	390.3	424.9	478.4	527.7	586.6
45°	267.1	274.9	285.8	297.7	313.6	332.0	353.7	384.0	435.4	478.0	533.3
47.5°	238.7	250.1	257.1	268.8	283.9	301.3	321.6	347.8	389.5	429.3	480.6
50°	219.3	230.9	241.1	251.7	265.0	281.9	298.8	324.1	357.6	399.5	447.3
52.5°	202.6	212.9	222.8	233.4	246.5	261.9	278.0	300.2	328.9	367.4	413.9
55°	179.8	186.2	196.4	207.0	218.6	233.4	248.8	267.5	292.2	324.5	362.2
57.5°	156.5	163.8	171.9	182.6	194.3	205.7	219.5	236.5	255.9	285.2	317.4
60°	143.3	148.9	155.6	166.5	177.4	187.6	201.0	215.1	233.4	258.7	286.2
62.5°	128.7	133.9	140.1	149.6	160.2	169.6	181.3	196.2	211.7	234.8	258.8
65°	104.2	112.0	117.9	126.4	135.2	145.1	154.2	166.2	179.8	198.1	219.6
67.5°	86.3	90.3	95.9	103.6	112.5	121.0	129.7	139.0	150.9	165.0	182.1
70°	78.5	79.9	81.0	88.3	96.8	105.3	113.3	122.2	132.3	143.9	158.7
72.5°	69.2	70.6	71.9	75.1	81.9	90.3	98.7	105.3	114.9	124.5	136.5
75°	55.0	57.0	58.1	59.9	62.3	68.0	75.7	82.0	87.7	95.0	104.5
77.5°	41.8	43.0	44.1	46.0	47.5	50.1	54.5	60.2	65.5	69.7	76.3
80°	33.1	33.5	34.9	35.5	37.7	39.4	41.6	46.1	51.4	53.2	57.7
82.5°	24.9	25.3	26.4	27.1	28.1	29.6	32.2	33.5	37.6	39.9	42.8
85°	13.8	13.4	14.4	14.4	15.2	15.8	16.6	18.3	19.3	22.1	22.9
87.5°	6.4	6.5	6.7	6.3	5.8	6.0	6.1	6.3	6.7	7.4	8.2
90°	11.0	11.3	11.0	9.0	6.7	5.0	4.0	3.3	2.6	1.3	0.4
92.5°	36.6	43.3	42.7	33.3	22.6	15.1	12.0	9.7	8.3	5.8	4.1
95°	114.2	130.5	115.6	76.9	48.0	32.6	24.6	19.3	16.3	13.0	11.7
97.5°	233.8	222.8	167.9	103.7	63.2	44.0	35.0	28.8	24.3	20.7	18.9
100°	311.0	263.1	181.2	109.2	68.6	51.0	41.7	35.0	29.6	26.7	25.6
102.5°	339.8	264.4	176.1	109.5	73.4	57.1	47.8	40.8	35.5	32.5	31.8
105°	335.4	246.8	166.2	111.2	81.6	66.0	56.6	49.3	44.3	41.9	40.6
107.5°	306.1	227.8	161.3	115.8	90.0	74.8	65.4	58.2	53.5	51.3	50.2
110°	287.8	218.8	160.2	119.5	95.6	81.0	71.3	64.3	59.9	58.0	56.6



TEST NUMBER: P331647-830

CATALOG NUMBER: S122RDIP-S485D330U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	274.9	212.9	160.4	123.6	100.9	86.8	76.8	70.1	66.1	63.8	62.5
115°	259.1	206.5	161.8	129.5	109.2	94.9	86.0	79.3	75.3	73.2	71.6
117.5°	249.1	203.3	164.3	135.9	116.9	103.7	94.3	87.9	84.4	82.4	81.1
120°	243.7	201.5	165.9	140.3	122.2	109.2	99.9	93.2	90.3	88.2	86.9
122.5°	239.2	200.4	167.7	143.9	127.2	115.1	105.5	98.9	95.6	93.6	92.6
125°	232.8	198.5	170.5	149.9	134.9	122.9	113.6	106.9	102.9	100.9	99.9
127.5°	226.8	197.4	173.3	155.4	141.9	130.3	120.6	114.3	109.9	107.1	105.8
130°	222.8	196.8	175.5	158.8	146.2	134.5	125.3	118.6	113.9	110.6	109.2
132.5°	219.6	196.5	177.7	162.3	150.0	138.8	129.5	122.5	117.6	114.0	112.4
135°	215.1	196.1	180.2	166.8	155.2	144.5	135.3	127.5	122.5	118.6	117.3
137.5°	212.0	196.0	182.5	170.3	159.5	148.9	140.3	132.7	127.3	123.4	121.8
140°	210.1	195.9	183.5	172.2	161.8	151.8	143.2	135.9	130.5	126.6	125.3
142.5°	208.3	195.9	184.3	173.8	163.7	154.0	145.9	138.8	133.5	129.8	128.7
145°	205.9	195.1	185.1	175.9	166.5	157.5	150.2	143.5	138.6	135.3	133.8
147.5°	203.3	194.0	185.4	177.0	168.8	160.3	153.8	148.3	143.6	140.4	139.5
150°	201.1	193.1	185.1	177.5	169.8	162.2	156.2	151.2	146.8	144.2	143.2
152.5°	199.3	191.8	184.6	177.8	170.9	164.0	158.6	153.8	150.1	147.4	146.9
155°	195.9	189.5	183.8	178.1	172.5	166.8	161.8	158.2	154.5	152.5	152.2
157.5°	192.6	187.1	182.3	178.1	173.6	168.8	164.7	161.7	158.5	156.9	156.6
160°	190.1	185.5	181.5	178.1	174.2	170.2	166.5	163.8	161.2	159.9	159.5
162.5°	188.0	184.2	180.7	177.9	174.5	171.0	168.1	165.7	163.6	162.2	162.5
165°	184.5	181.5	179.2	177.2	174.8	171.8	169.8	168.1	166.2	165.5	165.9
167.5°	181.1	179.2	177.7	176.7	174.7	172.6	171.4	170.1	168.8	168.2	168.6
170°	179.2	177.9	176.8	176.2	174.5	172.9	171.8	171.2	170.2	169.8	170.5
172.5°	177.3	176.3	175.8	175.4	174.3	173.1	172.4	172.0	171.0	171.2	171.5
175°	174.8	174.5	174.2	174.5	173.8	173.1	172.9	172.9	172.2	172.5	172.9
177.5°	173.4	173.1	173.4	174.0	173.4	173.1	173.1	173.1	172.7	172.9	173.4
180°	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1



TEST NUMBER: P331647-830

CATALOG NUMBER: S122RDIP-S485D330U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1018.9	1019.7	1025.4	1027.9	1033.0	1035.0	1037.2	1036.6	1036.6	1037.7	1045.7
5°	1021.1	1028.1	1038.7	1048.9	1058.8	1067.2	1072.8	1078.5	1080.5	1090.8	1099.9
7.5°	1017.5	1030.4	1047.8	1063.4	1082.0	1096.6	1108.7	1119.6	1127.1	1142.0	1157.2
10°	1012.7	1031.0	1050.7	1070.7	1096.5	1115.8	1135.5	1150.7	1155.6	1177.7	1190.4
12.5°	1003.1	1027.6	1052.6	1078.6	1103.7	1130.4	1152.1	1167.2	1184.6	1204.5	1227.9
15°	988.7	1016.9	1049.6	1083.1	1119.0	1151.3	1174.6	1201.0	1219.9	1241.8	1262.2
17.5°	968.1	1004.4	1045.9	1084.7	1126.1	1160.9	1193.0	1218.2	1231.6	1244.1	1247.2
20°	951.8	990.8	1039.7	1085.5	1127.0	1167.2	1198.8	1219.9	1223.5	1223.8	1205.1
22.5°	934.1	978.2	1029.4	1076.2	1125.9	1170.5	1195.1	1204.2	1190.2	1166.4	1130.3
25°	901.4	952.4	1011.9	1065.5	1119.6	1161.9	1170.4	1154.5	1105.6	1054.1	989.1
27.5°	866.1	923.4	987.2	1046.7	1104.5	1130.7	1112.4	1055.3	967.1	890.6	797.8
30°	840.2	904.6	967.2	1033.8	1087.2	1098.5	1056.7	972.5	869.8	754.3	661.8
32.5°	810.6	878.1	947.0	1015.8	1060.5	1049.5	980.3	876.8	756.3	642.8	555.3
35°	768.4	838.1	912.3	981.3	1009.8	962.3	858.8	724.1	600.9	494.9	434.7
37.5°	719.6	795.5	872.7	936.0	934.1	854.8	713.9	574.7	471.2	408.5	365.6
40°	684.9	761.7	845.1	898.6	875.7	772.6	619.8	488.5	412.8	362.9	331.6
42.5°	651.8	728.8	811.6	854.1	814.4	687.6	535.4	432.5	370.0	331.1	305.7
45°	595.2	676.5	753.3	776.8	705.7	566.0	432.9	358.4	316.8	287.9	270.3
47.5°	540.0	619.9	689.9	690.4	594.2	459.0	365.2	310.1	274.7	252.3	239.5
50°	506.1	582.2	640.9	631.8	522.7	408.3	326.6	279.1	249.6	232.3	219.0
52.5°	468.2	541.9	592.8	566.8	462.1	359.3	292.0	252.1	227.6	212.6	200.7
55°	412.8	478.3	514.3	474.9	377.0	298.8	246.8	215.4	197.1	184.5	174.3
57.5°	358.6	412.6	435.2	389.3	310.5	247.8	208.7	185.2	167.0	158.0	152.7
60°	324.5	370.6	386.4	335.8	269.9	216.8	184.8	163.0	149.6	143.6	138.4
62.5°	291.1	328.7	335.3	288.8	235.4	189.8	162.3	143.8	135.0	129.2	124.2
65°	241.5	268.5	265.4	228.1	186.2	150.6	130.5	119.3	112.6	104.5	95.8
67.5°	198.8	215.4	205.4	177.4	142.1	117.1	104.0	95.5	87.2	79.5	77.5
70°	171.7	181.3	170.7	145.1	116.5	98.2	87.7	77.5	72.5	70.8	67.6
72.5°	145.9	149.2	137.8	115.7	94.8	81.3	71.1	65.3	62.7	61.2	59.1
75°	109.4	107.0	97.2	79.9	65.8	56.6	53.5	51.4	49.7	48.3	47.1
77.5°	76.9	73.2	64.5	53.3	45.8	41.5	39.6	38.5	37.6	36.9	35.8
80°	57.7	55.2	46.5	38.0	34.9	32.7	31.7	30.3	30.3	29.6	28.5
82.5°	42.2	39.5	31.9	27.9	26.1	24.9	24.0	23.2	22.9	23.1	22.3
85°	22.1	17.9	15.8	15.2	14.0	13.4	13.8	13.0	13.0	13.0	12.6
87.5°	7.1	5.8	5.7	5.6	6.0	6.4	6.6	7.0	7.4	7.0	7.2
90°	1.3	2.6	3.3	4.0	5.0	6.7	9.0	11.0	11.3	11.0	10.7
92.5°	5.8	8.3	9.7	12.0	15.1	22.6	33.3	42.7	43.3	36.6	29.0
95°	13.0	16.3	19.3	24.6	32.6	48.0	76.9	115.6	130.5	114.2	87.3
97.5°	20.7	24.3	28.8	35.0	44.0	63.2	103.7	167.9	222.8	233.8	203.6
100°	26.7	29.6	35.0	41.7	51.0	68.6	109.2	181.2	263.1	311.0	304.1
102.5°	32.5	35.5	40.8	47.8	57.1	73.4	109.5	176.1	264.4	339.8	369.9
105°	41.9	44.3	49.3	56.6	66.0	81.6	111.2	166.2	246.8	335.4	404.6
107.5°	51.3	53.5	58.2	65.4	74.8	90.0	115.8	161.3	227.8	306.1	379.6
110°	58.0	59.9	64.3	71.3	81.0	95.6	119.5	160.2	218.8	287.8	358.0





TEST NUMBER: P331647-830

CATALOG NUMBER: S122RDIP-S485D330U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	63.8	66.1	70.1	76.8	86.8	100.9	123.6	160.4	212.9	274.9	338.3
115°	73.2	75.3	79.3	86.0	94.9	109.2	129.5	161.8	206.5	259.1	314.1
117.5°	82.4	84.4	87.9	94.3	103.7	116.9	135.9	164.3	203.3	249.1	295.8
120°	88.2	90.3	93.2	99.9	109.2	122.2	140.3	165.9	201.5	243.7	286.7
122.5°	93.6	95.6	98.9	105.5	115.1	127.2	143.9	167.7	200.4	239.2	279.6
125°	100.9	102.9	106.9	113.6	122.9	134.9	149.9	170.5	198.5	232.8	269.1
127.5°	107.1	109.9	114.3	120.6	130.3	141.9	155.4	173.3	197.4	226.8	258.7
130°	110.6	113.9	118.6	125.3	134.5	146.2	158.8	175.5	196.8	222.8	252.1
132.5°	114.0	117.6	122.5	129.5	138.8	150.0	162.3	177.7	196.5	219.6	245.7
135°	118.6	122.5	127.5	135.3	144.5	155.2	166.8	180.2	196.1	215.1	236.8
137.5°	123.4	127.3	132.7	140.3	148.9	159.5	170.3	182.5	196.0	212.0	229.7
140°	126.6	130.5	135.9	143.2	151.8	161.8	172.2	183.5	195.9	210.1	225.1
142.5°	129.8	133.5	138.8	145.9	154.0	163.7	173.8	184.3	195.9	208.3	221.4
145°	135.3	138.6	143.5	150.2	157.5	166.5	175.9	185.1	195.1	205.9	216.1
147.5°	140.4	143.6	148.3	153.8	160.3	168.8	177.0	185.4	194.0	203.3	212.1
150°	144.2	146.8	151.2	156.2	162.2	169.8	177.5	185.1	193.1	201.1	209.2
152.5°	147.4	150.1	153.8	158.6	164.0	170.9	177.8	184.6	191.8	199.3	206.2
155°	152.5	154.5	158.2	161.8	166.8	172.5	178.1	183.8	189.5	195.9	202.2
157.5°	156.9	158.5	161.7	164.7	168.8	173.6	178.1	182.3	187.1	192.6	197.5
160°	159.9	161.2	163.8	166.5	170.2	174.2	178.1	181.5	185.5	190.1	194.4
162.5°	162.2	163.6	165.7	168.1	171.0	174.5	177.9	180.7	184.2	188.0	191.5
165°	165.5	166.2	168.1	169.8	171.8	174.8	177.2	179.2	181.5	184.5	187.2
167.5°	168.2	168.8	170.1	171.4	172.6	174.7	176.7	177.7	179.2	181.1	182.9
170°	169.8	170.2	171.2	171.8	172.9	174.5	176.2	176.8	177.9	179.2	180.9
172.5°	171.2	171.0	172.0	172.4	173.1	174.3	175.4	175.8	176.3	177.3	178.4
175°	172.5	172.2	172.9	172.9	173.1	173.8	174.5	174.2	174.5	174.8	175.9
177.5°	172.9	172.7	173.1	173.1	173.1	173.4	174.0	173.4	173.1	173.4	174.0
180°	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1048.5	1052.2	1053.9	1053.9	1055.8	1055.0	1054.1
5°	1108.7	1115.4	1116.8	1123.1	1127.8	1126.3	1127.0
7.5°	1168.7	1179.4	1190.1	1194.9	1195.7	1198.5	1199.6
10°	1205.5	1214.4	1230.9	1228.4	1240.8	1247.7	1236.1
12.5°	1241.0	1252.9	1264.4	1267.5	1274.5	1276.8	1272.1
15°	1273.1	1279.4	1280.2	1278.4	1280.5	1278.7	1272.1
17.5°	1243.1	1232.8	1212.0	1202.1	1194.3	1182.8	1178.2
20°	1193.5	1163.3	1128.1	1114.0	1097.5	1065.1	1072.8
22.5°	1086.6	1052.1	1016.9	975.7	956.1	925.4	923.6
25°	920.1	860.6	795.1	749.3	722.6	692.0	678.6
27.5°	715.4	640.5	586.8	559.7	534.9	510.7	509.6
30°	580.8	524.4	483.0	459.7	444.6	434.3	436.5
32.5°	489.6	450.9	422.9	403.7	392.5	384.7	384.7
35°	400.2	373.8	355.8	347.8	339.7	334.0	334.4
37.5°	342.5	326.6	316.6	307.7	302.7	299.9	298.3
40°	312.9	299.9	292.2	286.9	282.7	278.8	278.1
42.5°	289.5	278.8	271.0	266.8	263.0	260.1	259.5
45°	256.9	248.2	241.1	236.5	234.8	232.3	232.3
47.5°	228.6	219.9	214.4	211.5	208.5	206.9	206.8
50°	209.4	202.7	197.8	196.0	193.6	192.6	192.2
52.5°	192.3	187.3	183.7	182.6	181.4	180.1	180.3
55°	168.9	166.2	164.8	163.6	161.9	159.8	161.2
57.5°	149.3	146.9	143.1	139.8	138.2	136.7	137.2
60°	135.5	130.5	125.6	121.8	120.7	117.5	117.5
62.5°	118.1	111.1	105.1	102.9	101.9	100.4	100.1
65°	90.8	88.0	86.6	85.2	84.5	84.5	83.8
67.5°	75.2	74.1	72.6	72.2	71.5	71.4	71.1
70°	66.5	65.1	64.4	64.1	63.3	63.7	62.7
72.5°	58.1	56.9	56.8	55.9	55.5	55.5	54.8
75°	45.7	45.7	45.4	45.1	44.4	44.0	44.4
77.5°	35.2	35.3	34.6	34.6	34.5	34.6	34.2
80°	28.2	28.5	28.2	27.8	27.4	27.8	27.4
82.5°	22.2	21.8	21.7	21.6	21.6	21.3	21.3
85°	12.6	13.0	12.6	12.3	12.3	12.3	12.6
87.5°	6.8	6.9	7.0	7.0	7.0	7.0	6.7
90°	10.0	10.7	11.0	11.0	11.0	11.0	11.0
92.5°	24.9	22.1	20.1	19.8	18.8	18.9	18.5
95°	66.9	53.0	45.6	41.3	38.6	37.6	38.0
97.5°	166.5	130.5	106.5	90.6	82.4	77.6	74.7
100°	262.8	217.2	176.8	149.2	134.9	125.3	119.2
102.5°	360.5	327.2	284.5	254.4	230.0	217.9	209.8
105°	442.2	446.6	435.6	414.9	394.3	379.9	375.3
107.5°	436.3	470.9	487.0	489.7	488.5	485.6	479.5
110°	417.6	460.2	487.6	501.9	508.2	511.2	510.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	395.5	441.0	472.4	492.3	502.8	508.5	510.3
115°	365.3	409.0	443.3	466.9	482.2	490.9	493.9
117.5°	340.8	380.4	412.6	436.7	452.9	461.9	464.5
120°	328.0	363.4	393.6	417.0	432.6	442.2	445.6
122.5°	317.4	350.8	378.1	399.1	414.5	423.1	425.8
125°	303.4	332.7	357.7	377.0	389.6	397.9	400.7
127.5°	289.8	317.4	340.4	357.3	369.2	376.4	378.5
130°	280.8	307.1	329.0	345.3	356.7	363.4	366.0
132.5°	272.2	296.4	317.1	333.1	344.4	350.5	353.0
135°	258.7	280.8	299.4	313.7	324.7	330.7	332.1
137.5°	248.1	265.5	281.7	294.8	304.3	309.5	311.5
140°	241.1	256.5	271.1	281.7	290.4	295.4	297.4
142.5°	235.0	248.2	260.4	270.5	278.4	282.9	283.2
145°	227.2	237.4	247.1	255.1	260.8	264.1	265.0
147.5°	220.7	228.8	235.8	242.4	246.9	249.2	249.9
150°	216.5	223.5	229.4	234.4	238.5	240.4	240.8
152.5°	213.0	219.0	224.1	228.1	231.5	233.0	233.1
155°	207.5	212.4	216.1	219.8	222.2	223.5	222.8
157.5°	201.9	206.0	209.0	211.5	213.5	214.1	214.1
160°	198.1	201.8	204.2	206.5	208.1	208.5	208.5
162.5°	194.7	197.8	199.6	202.0	203.1	203.4	203.1
165°	189.5	191.8	193.1	194.4	195.9	195.9	195.5
167.5°	184.7	186.3	187.6	188.1	188.9	188.8	188.4
170°	181.8	183.1	183.8	184.2	185.1	184.8	184.2
172.5°	179.2	180.2	180.6	181.0	181.4	181.1	180.7
175°	176.2	176.5	176.8	176.8	177.2	176.8	176.2
177.5°	174.0	174.3	174.3	174.3	174.3	174.0	173.4
180°	173.1	173.1	173.1	173.1	173.1	173.1	173.1

(END OF REPORT)