

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: P331646-930

Luminaire Tested: **S122RDIP-S485D330U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331646-930  
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-S485D330U930-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 330 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

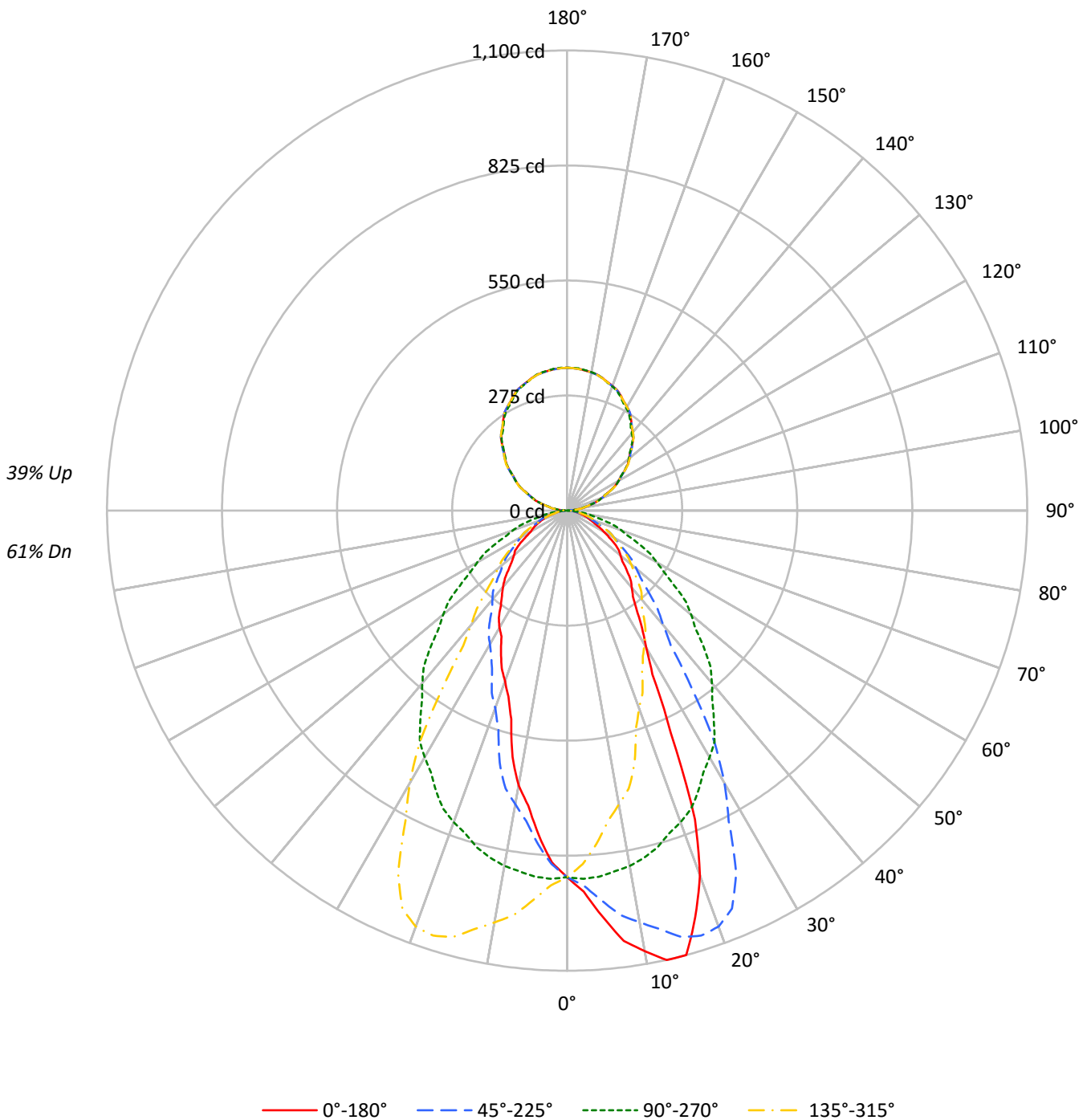
Lumens per Lamp: N/A  
Luminaire Lumens: 2470.1 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 27.5  
Input Voltage (V): 120  
Input Current (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				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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	61
1	101	97	94	90	95	91	88	85	80	78	76	70	68	67	60	59	58	54
2	93	86	80	75	87	81	76	72	71	68	64	62	60	57	54	52	50	46
3	86	77	70	64	80	72	66	61	64	59	55	56	53	50	49	46	44	41
4	79	69	61	55	74	65	58	53	58	52	48	51	47	44	45	42	39	36
5	73	62	54	48	68	58	52	46	52	47	42	46	42	39	41	37	35	32
6	68	56	48	43	63	53	46	41	48	42	38	42	38	34	37	34	31	29
7	63	51	43	38	59	48	42	37	44	38	34	39	34	31	35	31	28	26
8	59	47	39	34	55	44	38	33	40	35	31	36	31	28	32	28	26	24
9	55	43	36	31	52	41	34	30	37	32	28	33	29	26	30	26	24	22
10	52	40	33	28	49	38	32	27	34	29	25	31	27	24	28	24	22	20

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

	0°	90°	180°	270°
0°	14149	14149	14149	14149
5°	15801	14237	12624	14237
10°	17531	14137	10942	14137
15°	18392	13929	8622	13929
20°	15945	13622	7459	13622
25°	10457	13201	6661	13201
30°	7040	12693	6027	12693
35°	5702	12051	5436	12051
40°	5069	11352	5031	11352
45°	4590	10533	4491	10533
50°	4175	9718	4160	9718
55°	3924	8819	3873	8819
60°	3284	7992	3242	7992
65°	2770	7259	3140	7259
70°	2559	6482	2960	6482
75°	2395	5639	2739	5639
80°	2204	4640	2436	4640
85°	2019	3668	2149	3668



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.1	3.4
10°-20°	231.5	9.4
20°-30°	298.2	12.1
30°-40°	283.4	11.5
40°-50°	242.8	9.8
50°-60°	184.9	7.5
60°-70°	116.9	4.7
70°-80°	58.4	2.4
80°-90°	16.6	0.7
90°-100°	21.6	0.9
100°-110°	67.2	2.7
110°-120°	114.8	4.6
120°-130°	151.0	6.1
130°-140°	169.5	6.9
140°-150°	166.2	6.7
150°-160°	139.4	5.6
160°-170°	92.4	3.7
170°-180°	32.3	1.3
0°-30°	612.8	24.8
0°-40°	896.2	36.3
0°-60°	1323.9	53.6
0°-90°	1515.7	61.4
90°-120°	203.6	8.2
90°-150°	690.3	27.9
90°-180°	954.0	38.6
0°-180°	2470.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	876	876	876	876	876	
5°	975	878	779	878	975	96
15°	1100	833	516	833	1100	297
25°	587	741	374	741	587	279
35°	289	611	276	611	289	185
45°	201	461	197	461	201	156
55°	139	313	138	313	139	122
65°	72	190	82	190	72	74
75°	38	90	44	90	38	41
85°	11	20	12	20	11	12
90°	10	0	10	0	10	5
95°	18	15	18	15	18	20
105°	64	62	64	62	64	67
115°	115	115	115	115	115	114
125°	168	168	168	168	168	150
135°	220	217	220	217	220	169
145°	266	263	266	263	266	166
155°	303	301	303	301	303	140
165°	328	328	328	328	328	92
175°	340	341	340	341	340	32
180°	341	341	341	341	341	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	911.8	912.6	913.3	911.6	911.6	910.1	906.9	904.5	897.6	896.7	896.7
5°	974.9	974.3	975.5	971.5	966.0	964.8	959.0	951.5	943.5	934.7	932.9
7.5°	1037.6	1036.7	1034.3	1033.6	1029.4	1020.2	1010.9	1000.9	987.8	974.9	968.5
10°	1069.3	1079.3	1073.3	1062.6	1064.7	1050.4	1042.8	1029.7	1018.7	999.6	995.3
12.5°	1100.4	1104.4	1102.4	1096.4	1093.7	1083.8	1073.5	1062.1	1041.9	1024.7	1009.7
15°	1100.3	1106.1	1107.7	1105.8	1107.3	1106.7	1101.2	1091.8	1074.2	1055.2	1038.9
17.5°	1019.1	1023.1	1033.1	1039.8	1048.4	1066.4	1075.3	1078.8	1076.1	1065.4	1053.8
20°	928.0	921.3	949.3	963.6	975.8	1006.2	1032.4	1042.4	1058.6	1058.3	1055.2
22.5°	798.9	800.5	827.0	844.0	879.6	910.0	939.9	977.7	1008.9	1029.6	1041.6
25°	587.0	598.6	625.1	648.2	687.8	744.4	795.9	855.6	911.8	956.3	998.7
27.5°	440.8	441.7	462.7	484.1	507.6	554.0	618.8	690.1	770.4	836.6	912.8
30°	377.6	375.7	384.6	397.6	417.8	453.6	502.4	572.4	652.5	752.4	841.2
32.5°	332.7	332.8	339.5	349.2	365.8	390.0	423.5	480.3	556.0	654.2	758.4
35°	289.3	288.9	293.8	300.8	307.8	323.3	346.2	376.0	428.1	519.8	626.3
37.5°	258.0	259.4	261.8	266.2	273.9	282.5	296.3	316.3	353.4	407.6	497.1
40°	240.5	241.2	244.5	248.2	252.7	259.4	270.7	286.8	313.9	357.1	422.6
42.5°	224.5	225.0	227.5	230.8	234.4	241.2	250.5	264.4	286.4	320.1	374.1
45°	201.0	201.0	203.1	204.6	208.6	214.7	222.3	233.8	249.1	274.0	310.0
47.5°	178.9	179.0	180.3	183.0	185.5	190.2	197.7	207.2	218.3	237.6	268.2
50°	166.2	166.6	167.5	169.6	171.1	175.4	181.2	189.4	201.0	215.9	241.4
52.5°	156.0	155.8	156.9	157.9	158.9	162.0	166.3	173.6	183.9	196.9	218.1
55°	139.4	138.2	140.1	141.5	142.5	143.7	146.1	150.7	159.6	170.5	186.3
57.5°	118.7	118.2	119.5	120.9	123.8	127.1	129.1	132.1	136.6	144.5	160.2
60°	101.7	101.7	104.4	105.3	108.7	112.9	117.2	119.7	124.3	129.4	141.0
62.5°	86.6	86.8	88.1	89.0	90.9	96.1	102.2	107.5	111.8	116.8	124.4
65°	72.5	73.1	73.1	73.7	74.9	76.1	78.5	82.8	90.4	97.4	103.2
67.5°	61.5	61.7	61.9	62.5	62.8	64.1	65.1	67.0	68.7	75.4	82.6
70°	54.2	55.1	54.8	55.4	55.7	56.3	57.6	58.5	61.2	62.7	67.0
72.5°	47.4	48.0	48.0	48.3	49.2	49.2	50.2	51.1	52.9	54.2	56.5
75°	38.4	38.1	38.4	39.0	39.3	39.5	39.5	40.8	41.7	43.0	44.4
77.5°	29.6	29.9	29.8	29.9	29.9	30.5	30.4	31.0	31.9	32.5	33.3
80°	23.7	24.1	23.7	24.1	24.4	24.6	24.4	24.6	25.6	26.2	26.2
82.5°	18.4	18.4	18.7	18.7	18.8	18.8	19.2	19.3	20.0	19.8	20.1
85°	10.9	10.7	10.7	10.7	10.9	11.3	10.9	10.9	11.3	11.3	11.3
87.5°	5.9	6.1	6.0	6.0	6.0	6.0	6.1	6.4	6.1	6.4	5.9
90°	9.8	9.7	9.7	9.6	9.5	9.5	9.7	9.9	9.9	10.1	8.6
92.5°	9.3	9.3	9.3	9.3	9.3	9.3	9.2	9.2	9.2	9.1	8.8
95°	17.9	18.0	18.1	18.3	18.3	18.4	18.4	18.4	18.4	18.4	18.3
97.5°	30.9	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	30.7
100°	39.5	39.5	39.6	39.6	39.7	39.8	39.8	39.8	39.8	39.8	39.5
102.5°	49.2	49.2	49.2	49.3	49.4	49.4	49.3	49.3	49.2	49.2	48.9
105°	63.9	63.9	63.9	63.9	63.9	63.9	63.8	63.6	63.5	63.3	63.3
107.5°	77.9	78.2	78.5	78.8	79.1	79.2	79.2	79.1	79.0	79.0	79.0
110°	88.7	88.9	89.1	89.3	89.5	89.6	89.6	89.6	89.6	89.6	89.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	99.1	99.2	99.4	99.5	99.6	99.8	100.0	100.1	100.3	100.4	100.4
115°	115.2	115.4	115.6	115.8	116.0	116.1	116.2	116.3	116.3	116.3	116.5
117.5°	130.6	130.8	131.0	131.2	131.3	131.5	131.7	131.8	132.0	132.2	132.5
120°	141.5	141.6	141.8	142.0	142.2	142.3	142.3	142.3	142.3	142.3	142.8
122.5°	152.1	152.1	152.3	152.5	152.6	152.7	152.9	153.0	153.2	153.4	153.7
125°	168.2	168.3	168.4	168.4	168.4	168.6	168.8	169.0	169.2	169.3	169.6
127.5°	183.0	183.2	183.4	183.6	183.8	184.0	184.3	184.5	184.7	184.9	185.2
130°	193.6	193.8	194.0	194.4	194.6	194.8	194.9	195.0	195.2	195.3	195.4
132.5°	203.7	203.9	204.2	204.3	204.6	204.8	205.0	205.3	205.6	205.9	205.9
135°	219.5	219.7	219.9	220.0	220.3	220.4	220.5	220.5	220.5	220.6	220.5
137.5°	233.7	234.1	234.3	234.6	234.8	235.0	235.0	235.1	235.1	235.1	235.0
140°	243.7	243.9	244.2	244.4	244.7	244.8	244.8	244.8	244.8	244.8	244.5
142.5°	252.7	252.9	253.2	253.5	253.7	253.8	253.7	253.7	253.6	253.6	253.4
145°	266.1	266.4	266.7	266.9	267.2	267.3	267.2	267.2	267.1	267.0	266.6
147.5°	278.2	278.4	278.7	278.9	279.2	279.2	279.1	278.9	278.8	278.7	278.4
150°	286.0	286.3	286.4	286.6	286.8	286.8	286.6	286.4	286.3	286.0	285.8
152.5°	293.4	293.7	293.9	294.2	294.4	294.4	294.2	293.9	293.7	293.4	293.1
155°	303.3	303.5	303.7	303.9	304.1	304.0	303.7	303.4	303.0	302.7	302.6
157.5°	311.9	312.2	312.4	312.7	313.1	313.0	312.6	312.1	311.7	311.3	311.1
160°	317.2	317.4	317.6	317.9	318.1	318.1	317.7	317.3	316.9	316.6	316.5
162.5°	321.7	322.0	322.4	322.7	322.9	322.9	322.5	322.0	321.6	321.1	321.1
165°	327.8	328.1	328.4	328.7	329.1	329.0	328.6	328.1	327.7	327.2	327.2
167.5°	332.7	333.0	333.4	333.8	334.1	334.0	333.5	333.1	332.6	332.2	332.2
170°	335.3	335.7	336.1	336.5	336.8	336.8	336.3	335.9	335.4	335.0	335.1
172.5°	337.4	337.8	338.1	338.5	338.9	338.8	338.4	337.9	337.5	337.0	337.1
175°	339.6	340.0	340.4	340.8	341.1	341.1	340.6	340.2	339.7	339.3	339.4
177.5°	340.6	341.0	341.3	341.5	341.9	341.9	341.5	341.3	341.0	340.6	340.7
180°	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	897.2	895.3	893.6	889.2	887.0	882.1	881.3	881.1	874.8	868.7	867.0
5°	928.0	923.2	915.8	907.3	898.5	889.3	883.2	878.4	866.2	854.6	847.9
7.5°	959.0	948.6	936.0	919.8	906.4	891.3	880.1	870.0	852.7	836.2	825.0
10°	982.2	965.2	948.4	926.2	908.8	891.8	876.0	862.3	842.8	820.8	805.3
12.5°	996.5	977.8	954.7	933.0	910.5	888.8	867.6	850.0	827.2	804.5	786.0
15°	1016.0	995.9	967.9	936.9	907.9	879.6	855.2	833.3	803.5	776.4	753.8
17.5°	1031.9	1004.2	974.1	938.2	904.7	868.8	837.4	809.3	776.2	743.5	717.0
20°	1037.0	1009.6	974.9	939.0	899.4	857.0	823.3	792.8	757.2	721.5	691.1
22.5°	1033.8	1012.5	973.9	930.9	890.4	846.1	808.0	772.6	733.1	696.8	661.5
25°	1012.4	1005.0	968.5	921.6	875.3	823.9	779.8	741.0	696.0	657.0	618.6
27.5°	962.2	978.0	955.4	905.4	853.9	798.7	749.2	705.2	658.4	614.5	576.3
30°	914.0	950.2	940.4	894.2	836.7	782.4	726.8	680.8	630.9	585.8	548.0
32.5°	848.0	907.8	917.4	878.6	819.1	759.5	701.2	655.4	603.3	555.8	519.0
35°	742.9	832.4	873.5	848.8	789.1	725.0	664.6	611.4	559.0	512.1	475.6
37.5°	617.5	739.4	808.0	809.7	754.9	688.1	622.5	569.6	515.9	469.9	430.4
40°	536.1	668.3	757.5	777.3	731.0	658.8	592.5	538.6	486.2	441.2	395.8
42.5°	463.1	594.8	704.4	738.8	702.1	630.4	563.8	507.4	456.5	413.8	367.5
45°	374.5	489.6	610.4	672.0	651.6	585.1	514.9	461.3	413.4	376.6	332.2
47.5°	315.9	397.1	514.0	597.2	596.8	536.2	467.1	415.7	371.4	336.9	300.8
50°	282.5	353.2	452.2	546.5	554.4	503.6	437.8	386.9	345.6	309.3	280.4
52.5°	252.6	310.8	399.7	490.2	512.7	468.7	405.0	358.0	317.8	284.5	259.7
55°	213.4	258.4	326.1	410.7	444.8	413.8	357.1	313.3	280.7	252.7	231.4
57.5°	180.5	214.3	268.6	336.7	376.4	356.9	310.2	274.6	246.7	221.4	204.6
60°	159.9	187.5	233.5	290.5	334.3	320.6	280.7	247.5	223.8	201.9	186.1
62.5°	140.4	164.2	203.6	249.8	290.0	284.3	251.8	223.9	203.1	183.1	169.7
65°	112.9	130.3	161.0	197.3	229.6	232.3	208.9	190.0	171.4	155.6	143.7
67.5°	89.9	101.3	122.9	153.4	177.7	186.3	171.9	157.5	142.8	130.5	120.3
70°	75.8	85.0	100.8	125.5	147.7	156.8	148.5	137.3	124.5	114.5	105.7
72.5°	61.5	70.4	82.0	100.1	119.2	129.1	126.2	118.1	107.7	99.4	91.1
75°	46.3	49.0	56.9	69.1	84.1	92.5	94.7	90.4	82.2	75.8	70.9
77.5°	34.2	35.9	39.6	46.1	55.8	63.3	66.5	66.0	60.3	56.7	52.1
80°	27.4	28.3	30.2	32.9	40.2	47.8	49.9	49.9	46.0	44.4	39.9
82.5°	20.8	21.5	22.6	24.1	27.6	34.2	36.5	37.0	34.5	32.5	28.9
85°	11.9	11.6	12.1	13.1	13.7	15.5	19.2	19.8	19.2	16.7	15.8
87.5°	5.6	5.5	5.3	4.8	4.9	5.0	6.0	7.1	6.3	5.7	5.4
90°	7.3	5.9	4.5	3.3	2.6	1.8	1.1	0.3	1.1	1.8	2.6
92.5°	8.5	8.2	7.8	7.4	6.8	6.3	5.7	5.1	5.7	6.3	6.8
95°	18.2	18.0	17.9	17.5	16.9	16.2	15.7	15.0	15.7	16.2	16.9
97.5°	30.5	30.2	30.0	29.6	29.0	28.5	28.0	27.4	28.0	28.5	29.0
100°	39.4	39.1	39.0	38.6	38.2	37.6	37.1	36.6	37.1	37.6	38.2
102.5°	48.7	48.4	48.3	47.9	47.5	47.0	46.6	46.2	46.6	47.0	47.5
105°	63.1	63.0	62.9	62.7	62.5	62.3	62.1	62.0	62.1	62.3	62.5
107.5°	79.0	79.0	79.0	78.8	78.6	78.3	78.0	77.7	78.0	78.3	78.6
110°	89.6	89.6	89.6	89.4	89.0	88.6	88.2	87.9	88.2	88.6	89.0





TEST NUMBER: P331646-930

CATALOG NUMBER: S122RDIP-S485D330U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	100.5	100.5	100.6	100.4	100.0	99.7	99.3	98.9	99.3	99.7	100.0
115°	116.6	116.8	116.9	116.8	116.3	116.0	115.6	115.2	115.6	116.0	116.3
117.5°	132.9	133.2	133.6	133.5	133.0	132.5	132.0	131.4	132.0	132.5	133.0
120°	143.3	143.8	144.3	144.3	143.8	143.3	142.8	142.3	142.8	143.3	143.8
122.5°	154.1	154.4	154.8	154.7	154.0	153.4	152.8	152.2	152.8	153.4	154.0
125°	169.7	169.9	170.2	169.9	169.3	168.8	168.2	167.6	168.2	168.8	169.3
127.5°	185.4	185.6	185.8	185.6	184.8	184.2	183.4	182.7	183.4	184.2	184.8
130°	195.6	195.7	195.8	195.4	194.6	193.8	193.0	192.2	193.0	193.8	194.6
132.5°	205.9	205.8	205.8	205.5	204.7	204.1	203.4	202.8	203.4	204.1	204.7
135°	220.4	220.3	220.1	219.7	219.0	218.3	217.6	216.9	217.6	218.3	219.0
137.5°	234.8	234.6	234.5	234.2	233.6	232.9	232.4	231.8	232.4	232.9	233.6
140°	244.2	243.9	243.5	243.1	242.6	242.0	241.4	240.8	241.4	242.0	242.6
142.5°	253.2	252.9	252.7	252.3	251.8	251.2	250.6	250.1	250.6	251.2	251.8
145°	266.3	265.9	265.5	265.1	264.6	264.2	263.7	263.3	263.7	264.2	264.6
147.5°	278.2	277.9	277.6	277.2	276.7	276.1	275.7	275.1	275.7	276.1	276.7
150°	285.5	285.3	285.0	284.7	284.3	283.9	283.6	283.2	283.6	283.9	284.3
152.5°	292.8	292.4	292.2	291.8	291.5	291.1	290.7	290.3	290.7	291.1	291.5
155°	302.3	302.1	302.0	301.7	301.6	301.4	301.2	301.0	301.2	301.4	301.6
157.5°	311.0	311.0	310.8	310.7	310.5	310.4	310.3	310.1	310.3	310.4	310.5
160°	316.4	316.3	316.3	316.2	316.1	315.9	315.8	315.7	315.8	315.9	316.1
162.5°	321.1	321.0	320.9	320.9	320.8	320.8	320.8	320.7	320.8	320.8	320.8
165°	327.2	327.2	327.2	327.3	327.3	327.3	327.4	327.5	327.4	327.3	327.3
167.5°	332.2	332.2	332.3	332.4	332.6	332.8	333.0	333.1	333.0	332.8	332.6
170°	335.1	335.2	335.3	335.4	335.6	335.7	336.0	336.1	336.0	335.7	335.6
172.5°	337.2	337.3	337.3	337.5	337.6	337.9	338.0	338.2	338.0	337.9	337.6
175°	339.6	339.7	339.8	340.0	340.1	340.4	340.6	340.8	340.6	340.4	340.1
177.5°	340.9	341.0	341.0	341.2	341.4	341.4	341.6	341.8	341.6	341.4	341.4
180°	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4



TEST NUMBER: P331646-930

CATALOG NUMBER: S122RDIP-S485D330U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	863.8	862.1	858.9	854.1	851.2	846.0	842.6	844.6	845.1	844.6	844.1
5°	840.7	834.2	825.4	816.8	808.9	800.5	795.6	793.4	789.1	786.8	785.5
7.5°	812.5	801.5	789.0	774.2	761.6	748.4	741.6	738.3	729.5	724.8	720.6
10°	791.6	774.2	761.7	742.2	730.4	713.1	701.2	701.5	689.6	682.9	678.0
12.5°	768.5	749.4	728.6	711.1	694.6	680.7	666.3	660.6	647.9	641.5	628.4
15°	730.1	707.8	686.0	662.2	645.5	623.9	603.2	577.9	557.5	539.8	534.9
17.5°	688.2	660.7	638.7	610.8	582.1	545.8	521.8	507.1	494.8	485.5	478.6
20°	659.5	631.4	608.1	566.0	527.3	502.6	485.0	473.8	461.0	450.9	445.4
22.5°	629.2	600.1	568.1	521.1	491.1	471.2	455.5	442.5	433.9	426.1	421.1
25°	586.4	554.4	501.7	469.4	445.2	424.4	413.4	405.5	396.4	385.7	380.9
27.5°	541.1	490.2	452.4	428.4	405.2	391.8	381.9	370.1	361.9	357.1	352.0
30°	507.2	456.4	426.9	400.6	384.3	369.3	357.8	351.1	343.2	334.9	331.6
32.5°	469.4	428.8	400.6	378.8	362.1	349.4	340.2	329.4	323.7	318.6	311.6
35°	422.6	391.8	366.0	348.3	332.5	322.1	311.4	305.1	294.7	290.5	287.7
37.5°	382.9	356.2	336.9	318.3	305.7	294.3	287.8	277.6	273.1	267.2	261.4
40°	360.4	334.3	315.8	300.5	286.5	277.9	269.8	261.5	254.9	252.1	245.1
42.5°	337.6	316.3	297.7	281.0	271.7	262.6	252.3	246.2	239.2	234.8	230.5
45°	306.0	287.1	271.3	257.6	247.2	237.8	231.1	221.0	217.1	208.2	204.6
47.5°	278.2	260.7	245.6	232.5	222.4	216.3	206.5	198.6	192.3	186.9	182.2
50°	258.4	243.9	229.3	217.7	208.6	199.7	189.7	185.7	175.9	173.3	170.5
52.5°	240.4	226.6	213.2	201.9	192.7	184.2	175.3	170.2	163.5	160.8	158.8
55°	215.2	201.9	189.1	179.0	169.9	161.0	155.6	149.2	146.1	144.0	141.5
57.5°	189.9	177.9	168.0	157.9	148.7	141.7	135.3	131.5	128.3	125.6	122.6
60°	173.8	162.2	153.4	144.0	134.6	128.8	123.9	119.4	115.7	111.5	110.2
62.5°	156.8	146.7	138.6	129.4	121.2	115.9	111.3	107.0	102.6	96.4	94.7
65°	133.4	125.5	116.9	109.3	102.0	96.9	90.1	85.3	83.4	82.8	82.5
67.5°	112.2	104.7	97.3	89.6	82.9	78.1	74.7	73.9	72.7	72.3	71.5
70°	98.0	91.1	83.7	76.4	70.0	69.1	67.9	66.7	65.1	64.6	63.9
72.5°	85.4	78.1	70.8	65.0	62.2	61.1	59.8	58.6	57.6	57.0	56.7
75°	65.5	58.8	53.9	51.8	50.2	49.3	47.5	46.6	46.0	45.1	44.8
77.5°	47.1	43.4	41.1	39.8	38.2	37.2	36.2	35.2	34.6	34.4	33.9
80°	36.0	34.1	32.6	30.7	30.2	28.9	28.6	27.7	28.0	27.1	27.1
82.5°	27.9	25.6	24.3	23.5	22.8	21.9	21.5	21.1	21.2	20.5	20.5
85°	14.3	13.7	13.1	12.5	12.5	11.6	11.9	11.6	11.6	10.9	10.7
87.5°	5.3	5.3	5.1	5.4	5.6	5.7	5.6	5.4	5.4	5.3	5.1
90°	3.3	4.5	5.9	7.3	8.6	10.1	9.9	9.9	9.7	9.5	9.5
92.5°	7.4	7.8	8.2	8.5	8.8	9.1	9.2	9.2	9.2	9.3	9.3
95°	17.5	17.9	18.0	18.2	18.3	18.4	18.4	18.4	18.4	18.4	18.3
97.5°	29.6	30.0	30.2	30.5	30.7	31.0	31.0	31.0	31.0	31.0	31.0
100°	38.6	39.0	39.1	39.4	39.5	39.8	39.8	39.8	39.8	39.8	39.7
102.5°	47.9	48.3	48.4	48.7	48.9	49.2	49.2	49.3	49.3	49.4	49.4
105°	62.7	62.9	63.0	63.1	63.3	63.3	63.5	63.6	63.8	63.9	63.9
107.5°	78.8	79.0	79.0	79.0	79.0	79.0	79.0	79.1	79.2	79.2	79.1
110°	89.4	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.5



TEST NUMBER: P331646-930

CATALOG NUMBER: S122RDIP-S485D330U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	100.4	100.6	100.5	100.5	100.4	100.4	100.3	100.1	100.0	99.8	99.6
115°	116.8	116.9	116.8	116.6	116.5	116.3	116.3	116.3	116.2	116.1	116.0
117.5°	133.5	133.6	133.2	132.9	132.5	132.2	132.0	131.8	131.7	131.5	131.3
120°	144.3	144.3	143.8	143.3	142.8	142.3	142.3	142.3	142.3	142.3	142.2
122.5°	154.7	154.8	154.4	154.1	153.7	153.4	153.2	153.0	152.9	152.7	152.6
125°	169.9	170.2	169.9	169.7	169.6	169.3	169.2	169.0	168.8	168.6	168.4
127.5°	185.6	185.8	185.6	185.4	185.2	184.9	184.7	184.5	184.3	184.0	183.8
130°	195.4	195.8	195.7	195.6	195.4	195.3	195.2	195.0	194.9	194.8	194.6
132.5°	205.5	205.8	205.8	205.9	205.9	205.9	205.6	205.3	205.0	204.8	204.6
135°	219.7	220.1	220.3	220.4	220.5	220.6	220.5	220.5	220.5	220.4	220.3
137.5°	234.2	234.5	234.6	234.8	235.0	235.1	235.1	235.1	235.0	235.0	234.8
140°	243.1	243.5	243.9	244.2	244.5	244.8	244.8	244.8	244.8	244.8	244.7
142.5°	252.3	252.7	252.9	253.2	253.4	253.6	253.6	253.7	253.7	253.8	253.7
145°	265.1	265.5	265.9	266.3	266.6	267.0	267.1	267.2	267.2	267.3	267.2
147.5°	277.2	277.6	277.9	278.2	278.4	278.7	278.8	278.9	279.1	279.2	279.2
150°	284.7	285.0	285.3	285.5	285.8	286.0	286.3	286.4	286.6	286.8	286.8
152.5°	291.8	292.2	292.4	292.8	293.1	293.4	293.7	293.9	294.2	294.4	294.4
155°	301.7	302.0	302.1	302.3	302.6	302.7	303.0	303.4	303.7	304.0	304.1
157.5°	310.7	310.8	311.0	311.0	311.1	311.3	311.7	312.1	312.6	313.0	313.1
160°	316.2	316.3	316.3	316.4	316.5	316.6	316.9	317.3	317.7	318.1	318.1
162.5°	320.9	320.9	321.0	321.1	321.1	321.1	321.6	322.0	322.5	322.9	322.9
165°	327.3	327.2	327.2	327.2	327.2	327.2	327.7	328.1	328.6	329.0	329.1
167.5°	332.4	332.3	332.2	332.2	332.2	332.2	332.6	333.1	333.5	334.0	334.1
170°	335.4	335.3	335.2	335.1	335.1	335.0	335.4	335.9	336.3	336.8	336.8
172.5°	337.5	337.3	337.3	337.2	337.1	337.0	337.5	337.9	338.4	338.8	338.9
175°	340.0	339.8	339.7	339.6	339.4	339.3	339.7	340.2	340.6	341.1	341.1
177.5°	341.2	341.0	341.0	340.9	340.7	340.6	341.0	341.3	341.5	341.9	341.9
180°	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4



TEST NUMBER: P331646-930

CATALOG NUMBER: S122RDIP-S485D330U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	841.4	841.9	841.1	841.6	841.1	841.9	841.4	844.1	844.6	845.1	844.6
5°	784.0	780.3	779.8	778.9	779.8	780.3	784.0	785.5	786.8	789.1	793.4
7.5°	715.4	714.9	713.4	711.2	713.4	714.9	715.4	720.6	724.8	729.5	738.3
10°	671.3	669.8	669.5	667.4	669.5	669.8	671.3	678.0	682.9	689.6	701.5
12.5°	619.7	609.9	608.9	603.6	608.9	609.9	619.7	628.4	641.5	647.9	660.6
15°	527.7	525.8	519.8	515.8	519.8	525.8	527.7	534.9	539.8	557.5	577.9
17.5°	475.0	469.0	467.2	466.4	467.2	469.0	475.0	478.6	485.5	494.8	507.1
20°	441.2	435.7	434.8	434.1	434.8	435.7	441.2	445.4	450.9	461.0	473.8
22.5°	417.8	412.1	409.7	407.9	409.7	412.1	417.8	421.1	426.1	433.9	442.5
25°	377.8	375.7	374.5	373.9	374.5	375.7	377.8	380.9	385.7	396.4	405.5
27.5°	346.6	341.9	341.0	339.4	341.0	341.9	346.6	352.0	357.1	361.9	370.1
30°	328.8	327.3	325.1	323.3	325.1	327.3	328.8	331.6	334.9	343.2	351.1
32.5°	307.9	306.6	304.7	303.9	304.7	306.6	307.9	311.6	318.6	323.7	329.4
35°	284.7	280.4	278.6	275.8	278.6	280.4	284.7	287.7	290.5	294.7	305.1
37.5°	260.2	257.9	255.4	256.2	255.4	257.9	260.2	261.4	267.2	273.1	277.6
40°	241.2	239.6	239.0	238.7	239.0	239.6	241.2	245.1	252.1	254.9	261.5
42.5°	226.0	221.8	220.2	220.2	220.2	221.8	226.0	230.5	234.8	239.2	246.2
45°	203.1	199.1	196.4	196.7	196.4	199.1	203.1	204.6	208.2	217.1	221.0
47.5°	179.6	179.4	177.7	178.3	177.7	179.4	179.6	182.2	186.9	192.3	198.6
50°	168.4	166.6	165.3	165.6	165.3	166.6	168.4	170.5	173.3	175.9	185.7
52.5°	157.7	156.0	155.1	156.4	155.1	156.0	157.7	158.8	160.8	163.5	170.2
55°	140.1	138.2	137.9	137.6	137.9	138.2	140.1	141.5	144.0	146.1	149.2
57.5°	120.4	119.2	117.3	116.6	117.3	119.2	120.4	122.6	125.6	128.3	131.5
60°	106.2	103.8	100.8	100.4	100.8	103.8	106.2	110.2	111.5	115.7	119.4
62.5°	93.4	92.9	92.3	92.2	92.3	92.9	93.4	94.7	96.4	102.6	107.0
65°	81.9	81.6	81.9	82.2	81.9	81.6	81.9	82.5	82.8	83.4	85.3
67.5°	71.3	70.8	70.3	70.5	70.3	70.8	71.3	71.5	72.3	72.7	73.9
70°	63.3	63.0	62.7	62.7	62.7	63.0	63.3	63.9	64.6	65.1	66.7
72.5°	55.5	55.4	55.2	55.0	55.2	55.4	55.5	56.7	57.0	57.6	58.6
75°	44.4	43.9	43.9	43.9	43.9	43.9	44.4	44.8	45.1	46.0	46.6
77.5°	33.8	33.6	33.3	33.0	33.3	33.6	33.8	33.9	34.4	34.6	35.2
80°	26.8	26.5	26.2	26.2	26.2	26.5	26.8	27.1	27.1	28.0	27.7
82.5°	20.5	20.1	20.1	19.8	20.1	20.1	20.5	20.5	20.5	21.2	21.1
85°	10.9	11.3	10.9	11.6	10.9	11.3	10.9	10.7	10.9	11.6	11.6
87.5°	5.1	4.9	5.1	4.9	5.1	4.9	5.1	5.1	5.3	5.4	5.4
90°	9.6	9.7	9.7	9.8	9.7	9.7	9.6	9.5	9.5	9.7	9.9
92.5°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.2	9.2
95°	18.3	18.1	18.0	17.9	18.0	18.1	18.3	18.3	18.4	18.4	18.4
97.5°	31.0	31.0	31.0	30.9	31.0	31.0	31.0	31.0	31.0	31.0	31.0
100°	39.6	39.6	39.5	39.5	39.5	39.6	39.6	39.7	39.8	39.8	39.8
102.5°	49.3	49.2	49.2	49.2	49.2	49.2	49.3	49.4	49.4	49.3	49.3
105°	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.8	63.6
107.5°	78.8	78.5	78.2	77.9	78.2	78.5	78.8	79.1	79.2	79.2	79.1
110°	89.3	89.1	88.9	88.7	88.9	89.1	89.3	89.5	89.6	89.6	89.6



TEST NUMBER: P331646-930

CATALOG NUMBER: S122RDIP-S485D330U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	99.5	99.4	99.2	99.1	99.2	99.4	99.5	99.6	99.8	100.0	100.1
115°	115.8	115.6	115.4	115.2	115.4	115.6	115.8	116.0	116.1	116.2	116.3
117.5°	131.2	131.0	130.8	130.6	130.8	131.0	131.2	131.3	131.5	131.7	131.8
120°	142.0	141.8	141.6	141.5	141.6	141.8	142.0	142.2	142.3	142.3	142.3
122.5°	152.5	152.3	152.1	152.1	152.1	152.3	152.5	152.6	152.7	152.9	153.0
125°	168.4	168.4	168.3	168.2	168.3	168.4	168.4	168.4	168.6	168.8	169.0
127.5°	183.6	183.4	183.2	183.0	183.2	183.4	183.6	183.8	184.0	184.3	184.5
130°	194.4	194.0	193.8	193.6	193.8	194.0	194.4	194.6	194.8	194.9	195.0
132.5°	204.3	204.2	203.9	203.7	203.9	204.2	204.3	204.6	204.8	205.0	205.3
135°	220.0	219.9	219.7	219.5	219.7	219.9	220.0	220.3	220.4	220.5	220.5
137.5°	234.6	234.3	234.1	233.7	234.1	234.3	234.6	234.8	235.0	235.0	235.1
140°	244.4	244.2	243.9	243.7	243.9	244.2	244.4	244.7	244.8	244.8	244.8
142.5°	253.5	253.2	252.9	252.7	252.9	253.2	253.5	253.7	253.8	253.7	253.7
145°	266.9	266.7	266.4	266.1	266.4	266.7	266.9	267.2	267.3	267.2	267.2
147.5°	278.9	278.7	278.4	278.2	278.4	278.7	278.9	279.2	279.2	279.1	278.9
150°	286.6	286.4	286.3	286.0	286.3	286.4	286.6	286.8	286.8	286.6	286.4
152.5°	294.2	293.9	293.7	293.4	293.7	293.9	294.2	294.4	294.4	294.2	293.9
155°	303.9	303.7	303.5	303.3	303.5	303.7	303.9	304.1	304.0	303.7	303.4
157.5°	312.7	312.4	312.2	311.9	312.2	312.4	312.7	313.1	313.0	312.6	312.1
160°	317.9	317.6	317.4	317.2	317.4	317.6	317.9	318.1	318.1	317.7	317.3
162.5°	322.7	322.4	322.0	321.7	322.0	322.4	322.7	322.9	322.9	322.5	322.0
165°	328.7	328.4	328.1	327.8	328.1	328.4	328.7	329.1	329.0	328.6	328.1
167.5°	333.8	333.4	333.0	332.7	333.0	333.4	333.8	334.1	334.0	333.5	333.1
170°	336.5	336.1	335.7	335.3	335.7	336.1	336.5	336.8	336.8	336.3	335.9
172.5°	338.5	338.1	337.8	337.4	337.8	338.1	338.5	338.9	338.8	338.4	337.9
175°	340.8	340.4	340.0	339.6	340.0	340.4	340.8	341.1	341.1	340.6	340.2
177.5°	341.5	341.3	341.0	340.6	341.0	341.3	341.5	341.9	341.9	341.5	341.3
180°	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4



TEST NUMBER: P331646-930

CATALOG NUMBER: S122RDIP-S485D330U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	842.6	846.0	851.2	854.1	858.9	862.1	863.8	867.0	868.7	874.8	881.1
5°	795.6	800.5	808.9	816.8	825.4	834.2	840.7	847.9	854.6	866.2	878.4
7.5°	741.6	748.4	761.6	774.2	789.0	801.5	812.5	825.0	836.2	852.7	870.0
10°	701.2	713.1	730.4	742.2	761.7	774.2	791.6	805.3	820.8	842.8	862.3
12.5°	666.3	680.7	694.6	711.1	728.6	749.4	768.5	786.0	804.5	827.2	850.0
15°	603.2	623.9	645.5	662.2	686.0	707.8	730.1	753.8	776.4	803.5	833.3
17.5°	521.8	545.8	582.1	610.8	638.7	660.7	688.2	717.0	743.5	776.2	809.3
20°	485.0	502.6	527.3	566.0	608.1	631.4	659.5	691.1	721.5	757.2	792.8
22.5°	455.5	471.2	491.1	521.1	568.1	600.1	629.2	661.5	696.8	733.1	772.6
25°	413.4	424.4	445.2	469.4	501.7	554.4	586.4	618.6	657.0	696.0	741.0
27.5°	381.9	391.8	405.2	428.4	452.4	490.2	541.1	576.3	614.5	658.4	705.2
30°	357.8	369.3	384.3	400.6	426.9	456.4	507.2	548.0	585.8	630.9	680.8
32.5°	340.2	349.4	362.1	378.8	400.6	428.8	469.4	519.0	555.8	603.3	655.4
35°	311.4	322.1	332.5	348.3	366.0	391.8	422.6	475.6	512.1	559.0	611.4
37.5°	287.8	294.3	305.7	318.3	336.9	356.2	382.9	430.4	469.9	515.9	569.6
40°	269.8	277.9	286.5	300.5	315.8	334.3	360.4	395.8	441.2	486.2	538.6
42.5°	252.3	262.6	271.7	281.0	297.7	316.3	337.6	367.5	413.8	456.5	507.4
45°	231.1	237.8	247.2	257.6	271.3	287.1	306.0	332.2	376.6	413.4	461.3
47.5°	206.5	216.3	222.4	232.5	245.6	260.7	278.2	300.8	336.9	371.4	415.7
50°	189.7	199.7	208.6	217.7	229.3	243.9	258.4	280.4	309.3	345.6	386.9
52.5°	175.3	184.2	192.7	201.9	213.2	226.6	240.4	259.7	284.5	317.8	358.0
55°	155.6	161.0	169.9	179.0	189.1	201.9	215.2	231.4	252.7	280.7	313.3
57.5°	135.3	141.7	148.7	157.9	168.0	177.9	189.9	204.6	221.4	246.7	274.6
60°	123.9	128.8	134.6	144.0	153.4	162.2	173.8	186.1	201.9	223.8	247.5
62.5°	111.3	115.9	121.2	129.4	138.6	146.7	156.8	169.7	183.1	203.1	223.9
65°	90.1	96.9	102.0	109.3	116.9	125.5	133.4	143.7	155.6	171.4	190.0
67.5°	74.7	78.1	82.9	89.6	97.3	104.7	112.2	120.3	130.5	142.8	157.5
70°	67.9	69.1	70.0	76.4	83.7	91.1	98.0	105.7	114.5	124.5	137.3
72.5°	59.8	61.1	62.2	65.0	70.8	78.1	85.4	91.1	99.4	107.7	118.1
75°	47.5	49.3	50.2	51.8	53.9	58.8	65.5	70.9	75.8	82.2	90.4
77.5°	36.2	37.2	38.2	39.8	41.1	43.4	47.1	52.1	56.7	60.3	66.0
80°	28.6	28.9	30.2	30.7	32.6	34.1	36.0	39.9	44.4	46.0	49.9
82.5°	21.5	21.9	22.8	23.5	24.3	25.6	27.9	28.9	32.5	34.5	37.0
85°	11.9	11.6	12.5	12.5	13.1	13.7	14.3	15.8	16.7	19.2	19.8
87.5°	5.6	5.7	5.6	5.4	5.1	5.3	5.3	5.4	5.7	6.3	7.1
90°	9.9	10.1	8.6	7.3	5.9	4.5	3.3	2.6	1.8	1.1	0.3
92.5°	9.2	9.1	8.8	8.5	8.2	7.8	7.4	6.8	6.3	5.7	5.1
95°	18.4	18.4	18.3	18.2	18.0	17.9	17.5	16.9	16.2	15.7	15.0
97.5°	31.0	31.0	30.7	30.5	30.2	30.0	29.6	29.0	28.5	28.0	27.4
100°	39.8	39.8	39.5	39.4	39.1	39.0	38.6	38.2	37.6	37.1	36.6
102.5°	49.2	49.2	48.9	48.7	48.4	48.3	47.9	47.5	47.0	46.6	46.2
105°	63.5	63.3	63.3	63.1	63.0	62.9	62.7	62.5	62.3	62.1	62.0
107.5°	79.0	79.0	79.0	79.0	79.0	79.0	78.8	78.6	78.3	78.0	77.7
110°	89.6	89.6	89.6	89.6	89.6	89.6	89.4	89.0	88.6	88.2	87.9



TEST NUMBER: P331646-930

CATALOG NUMBER: S122RDIP-S485D330U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	100.3	100.4	100.4	100.5	100.5	100.6	100.4	100.0	99.7	99.3	98.9
115°	116.3	116.3	116.5	116.6	116.8	116.9	116.8	116.3	116.0	115.6	115.2
117.5°	132.0	132.2	132.5	132.9	133.2	133.6	133.5	133.0	132.5	132.0	131.4
120°	142.3	142.3	142.8	143.3	143.8	144.3	144.3	143.8	143.3	142.8	142.3
122.5°	153.2	153.4	153.7	154.1	154.4	154.8	154.7	154.0	153.4	152.8	152.2
125°	169.2	169.3	169.6	169.7	169.9	170.2	169.9	169.3	168.8	168.2	167.6
127.5°	184.7	184.9	185.2	185.4	185.6	185.8	185.6	184.8	184.2	183.4	182.7
130°	195.2	195.3	195.4	195.6	195.7	195.8	195.4	194.6	193.8	193.0	192.2
132.5°	205.6	205.9	205.9	205.9	205.8	205.8	205.5	204.7	204.1	203.4	202.8
135°	220.5	220.6	220.5	220.4	220.3	220.1	219.7	219.0	218.3	217.6	216.9
137.5°	235.1	235.1	235.0	234.8	234.6	234.5	234.2	233.6	232.9	232.4	231.8
140°	244.8	244.8	244.5	244.2	243.9	243.5	243.1	242.6	242.0	241.4	240.8
142.5°	253.6	253.6	253.4	253.2	252.9	252.7	252.3	251.8	251.2	250.6	250.1
145°	267.1	267.0	266.6	266.3	265.9	265.5	265.1	264.6	264.2	263.7	263.3
147.5°	278.8	278.7	278.4	278.2	277.9	277.6	277.2	276.7	276.1	275.7	275.1
150°	286.3	286.0	285.8	285.5	285.3	285.0	284.7	284.3	283.9	283.6	283.2
152.5°	293.7	293.4	293.1	292.8	292.4	292.2	291.8	291.5	291.1	290.7	290.3
155°	303.0	302.7	302.6	302.3	302.1	302.0	301.7	301.6	301.4	301.2	301.0
157.5°	311.7	311.3	311.1	311.0	311.0	310.8	310.7	310.5	310.4	310.3	310.1
160°	316.9	316.6	316.5	316.4	316.3	316.3	316.2	316.1	315.9	315.8	315.7
162.5°	321.6	321.1	321.1	321.1	321.0	320.9	320.9	320.8	320.8	320.8	320.7
165°	327.7	327.2	327.2	327.2	327.2	327.2	327.3	327.3	327.3	327.4	327.5
167.5°	332.6	332.2	332.2	332.2	332.2	332.3	332.4	332.6	332.8	333.0	333.1
170°	335.4	335.0	335.1	335.1	335.2	335.3	335.4	335.6	335.7	336.0	336.1
172.5°	337.5	337.0	337.1	337.2	337.3	337.3	337.5	337.6	337.9	338.0	338.2
175°	339.7	339.3	339.4	339.6	339.7	339.8	340.0	340.1	340.4	340.6	340.8
177.5°	341.0	340.6	340.7	340.9	341.0	341.0	341.2	341.4	341.4	341.6	341.8
180°	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4



TEST NUMBER: P331646-930

CATALOG NUMBER: S122RDIP-S485D330U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	881.3	882.1	887.0	889.2	893.6	895.3	897.2	896.7	896.7	897.6	904.5
5°	883.2	889.3	898.5	907.3	915.8	923.2	928.0	932.9	934.7	943.5	951.5
7.5°	880.1	891.3	906.4	919.8	936.0	948.6	959.0	968.5	974.9	987.8	1000.9
10°	876.0	891.8	908.8	926.2	948.4	965.2	982.2	995.3	999.6	1018.7	1029.7
12.5°	867.6	888.8	910.5	933.0	954.7	977.8	996.5	1009.7	1024.7	1041.9	1062.1
15°	855.2	879.6	907.9	936.9	967.9	995.9	1016.0	1038.9	1055.2	1074.2	1091.8
17.5°	837.4	868.8	904.7	938.2	974.1	1004.2	1031.9	1053.8	1065.4	1076.1	1078.8
20°	823.3	857.0	899.4	939.0	974.9	1009.6	1037.0	1055.2	1058.3	1058.6	1042.4
22.5°	808.0	846.1	890.4	930.9	973.9	1012.5	1033.8	1041.6	1029.6	1008.9	977.7
25°	779.8	823.9	875.3	921.6	968.5	1005.0	1012.4	998.7	956.3	911.8	855.6
27.5°	749.2	798.7	853.9	905.4	955.4	978.0	962.2	912.8	836.6	770.4	690.1
30°	726.8	782.4	836.7	894.2	940.4	950.2	914.0	841.2	752.4	652.5	572.4
32.5°	701.2	759.5	819.1	878.6	917.4	907.8	848.0	758.4	654.2	556.0	480.3
35°	664.6	725.0	789.1	848.8	873.5	832.4	742.9	626.3	519.8	428.1	376.0
37.5°	622.5	688.1	754.9	809.7	808.0	739.4	617.5	497.1	407.6	353.4	316.3
40°	592.5	658.8	731.0	777.3	757.5	668.3	536.1	422.6	357.1	313.9	286.8
42.5°	563.8	630.4	702.1	738.8	704.4	594.8	463.1	374.1	320.1	286.4	264.4
45°	514.9	585.1	651.6	672.0	610.4	489.6	374.5	310.0	274.0	249.1	233.8
47.5°	467.1	536.2	596.8	597.2	514.0	397.1	315.9	268.2	237.6	218.3	207.2
50°	437.8	503.6	554.4	546.5	452.2	353.2	282.5	241.4	215.9	201.0	189.4
52.5°	405.0	468.7	512.7	490.2	399.7	310.8	252.6	218.1	196.9	183.9	173.6
55°	357.1	413.8	444.8	410.7	326.1	258.4	213.4	186.3	170.5	159.6	150.7
57.5°	310.2	356.9	376.4	336.7	268.6	214.3	180.5	160.2	144.5	136.6	132.1
60°	280.7	320.6	334.3	290.5	233.5	187.5	159.9	141.0	129.4	124.3	119.7
62.5°	251.8	284.3	290.0	249.8	203.6	164.2	140.4	124.4	116.8	111.8	107.5
65°	208.9	232.3	229.6	197.3	161.0	130.3	112.9	103.2	97.4	90.4	82.8
67.5°	171.9	186.3	177.7	153.4	122.9	101.3	89.9	82.6	75.4	68.7	67.0
70°	148.5	156.8	147.7	125.5	100.8	85.0	75.8	67.0	62.7	61.2	58.5
72.5°	126.2	129.1	119.2	100.1	82.0	70.4	61.5	56.5	54.2	52.9	51.1
75°	94.7	92.5	84.1	69.1	56.9	49.0	46.3	44.4	43.0	41.7	40.8
77.5°	66.5	63.3	55.8	46.1	39.6	35.9	34.2	33.3	32.5	31.9	31.0
80°	49.9	47.8	40.2	32.9	30.2	28.3	27.4	26.2	26.2	25.6	24.6
82.5°	36.5	34.2	27.6	24.1	22.6	21.5	20.8	20.1	19.8	20.0	19.3
85°	19.2	15.5	13.7	13.1	12.1	11.6	11.9	11.3	11.3	11.3	10.9
87.5°	6.0	5.0	4.9	4.8	5.3	5.5	5.6	5.9	6.4	6.1	6.4
90°	1.1	1.8	2.6	3.3	4.5	5.9	7.3	8.6	10.1	9.9	9.9
92.5°	5.7	6.3	6.8	7.4	7.8	8.2	8.5	8.8	9.1	9.2	9.2
95°	15.7	16.2	16.9	17.5	17.9	18.0	18.2	18.3	18.4	18.4	18.4
97.5°	28.0	28.5	29.0	29.6	30.0	30.2	30.5	30.7	31.0	31.0	31.0
100°	37.1	37.6	38.2	38.6	39.0	39.1	39.4	39.5	39.8	39.8	39.8
102.5°	46.6	47.0	47.5	47.9	48.3	48.4	48.7	48.9	49.2	49.2	49.3
105°	62.1	62.3	62.5	62.7	62.9	63.0	63.1	63.3	63.3	63.5	63.6
107.5°	78.0	78.3	78.6	78.8	79.0	79.0	79.0	79.0	79.0	79.0	79.1
110°	88.2	88.6	89.0	89.4	89.6	89.6	89.6	89.6	89.6	89.6	89.6





TEST NUMBER: P331646-930

CATALOG NUMBER: S122RDIP-S485D330U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	99.3	99.7	100.0	100.4	100.6	100.5	100.5	100.4	100.4	100.3	100.1
115°	115.6	116.0	116.3	116.8	116.9	116.8	116.6	116.5	116.3	116.3	116.3
117.5°	132.0	132.5	133.0	133.5	133.6	133.2	132.9	132.5	132.2	132.0	131.8
120°	142.8	143.3	143.8	144.3	144.3	143.8	143.3	142.8	142.3	142.3	142.3
122.5°	152.8	153.4	154.0	154.7	154.8	154.4	154.1	153.7	153.4	153.2	153.0
125°	168.2	168.8	169.3	169.9	170.2	169.9	169.7	169.6	169.3	169.2	169.0
127.5°	183.4	184.2	184.8	185.6	185.8	185.6	185.4	185.2	184.9	184.7	184.5
130°	193.0	193.8	194.6	195.4	195.8	195.7	195.6	195.4	195.3	195.2	195.0
132.5°	203.4	204.1	204.7	205.5	205.8	205.8	205.9	205.9	205.9	205.6	205.3
135°	217.6	218.3	219.0	219.7	220.1	220.3	220.4	220.5	220.6	220.5	220.5
137.5°	232.4	232.9	233.6	234.2	234.5	234.6	234.8	235.0	235.1	235.1	235.1
140°	241.4	242.0	242.6	243.1	243.5	243.9	244.2	244.5	244.8	244.8	244.8
142.5°	250.6	251.2	251.8	252.3	252.7	252.9	253.2	253.4	253.6	253.6	253.7
145°	263.7	264.2	264.6	265.1	265.5	265.9	266.3	266.6	267.0	267.1	267.2
147.5°	275.7	276.1	276.7	277.2	277.6	277.9	278.2	278.4	278.7	278.8	278.9
150°	283.6	283.9	284.3	284.7	285.0	285.3	285.5	285.8	286.0	286.3	286.4
152.5°	290.7	291.1	291.5	291.8	292.2	292.4	292.8	293.1	293.4	293.7	293.9
155°	301.2	301.4	301.6	301.7	302.0	302.1	302.3	302.6	302.7	303.0	303.4
157.5°	310.3	310.4	310.5	310.7	310.8	311.0	311.0	311.1	311.3	311.7	312.1
160°	315.8	315.9	316.1	316.2	316.3	316.3	316.4	316.5	316.6	316.9	317.3
162.5°	320.8	320.8	320.8	320.9	320.9	321.0	321.1	321.1	321.1	321.6	322.0
165°	327.4	327.3	327.3	327.3	327.2	327.2	327.2	327.2	327.2	327.7	328.1
167.5°	333.0	332.8	332.6	332.4	332.3	332.2	332.2	332.2	332.2	332.6	333.1
170°	336.0	335.7	335.6	335.4	335.3	335.2	335.1	335.1	335.0	335.4	335.9
172.5°	338.0	337.9	337.6	337.5	337.3	337.3	337.2	337.1	337.0	337.5	337.9
175°	340.6	340.4	340.1	340.0	339.8	339.7	339.6	339.4	339.3	339.7	340.2
177.5°	341.6	341.4	341.4	341.2	341.0	341.0	340.9	340.7	340.6	341.0	341.3
180°	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	906.9	910.1	911.6	911.6	913.3	912.6	911.8
5°	959.0	964.8	966.0	971.5	975.5	974.3	974.9
7.5°	1010.9	1020.2	1029.4	1033.6	1034.3	1036.7	1037.6
10°	1042.8	1050.4	1064.7	1062.6	1073.3	1079.3	1069.3
12.5°	1073.5	1083.8	1093.7	1096.4	1102.4	1104.4	1100.4
15°	1101.2	1106.7	1107.3	1105.8	1107.7	1106.1	1100.3
17.5°	1075.3	1066.4	1048.4	1039.8	1033.1	1023.1	1019.1
20°	1032.4	1006.2	975.8	963.6	949.3	921.3	928.0
22.5°	939.9	910.0	879.6	844.0	827.0	800.5	798.9
25°	795.9	744.4	687.8	648.2	625.1	598.6	587.0
27.5°	618.8	554.0	507.6	484.1	462.7	441.7	440.8
30°	502.4	453.6	417.8	397.6	384.6	375.7	377.6
32.5°	423.5	390.0	365.8	349.2	339.5	332.8	332.7
35°	346.2	323.3	307.8	300.8	293.8	288.9	289.3
37.5°	296.3	282.5	273.9	266.2	261.8	259.4	258.0
40°	270.7	259.4	252.7	248.2	244.5	241.2	240.5
42.5°	250.5	241.2	234.4	230.8	227.5	225.0	224.5
45°	222.3	214.7	208.6	204.6	203.1	201.0	201.0
47.5°	197.7	190.2	185.5	183.0	180.3	179.0	178.9
50°	181.2	175.4	171.1	169.6	167.5	166.6	166.2
52.5°	166.3	162.0	158.9	157.9	156.9	155.8	156.0
55°	146.1	143.7	142.5	141.5	140.1	138.2	139.4
57.5°	129.1	127.1	123.8	120.9	119.5	118.2	118.7
60°	117.2	112.9	108.7	105.3	104.4	101.7	101.7
62.5°	102.2	96.1	90.9	89.0	88.1	86.8	86.6
65°	78.5	76.1	74.9	73.7	73.1	73.1	72.5
67.5°	65.1	64.1	62.8	62.5	61.9	61.7	61.5
70°	57.6	56.3	55.7	55.4	54.8	55.1	54.2
72.5°	50.2	49.2	49.2	48.3	48.0	48.0	47.4
75°	39.5	39.5	39.3	39.0	38.4	38.1	38.4
77.5°	30.4	30.5	29.9	29.9	29.8	29.9	29.6
80°	24.4	24.6	24.4	24.1	23.7	24.1	23.7
82.5°	19.2	18.8	18.8	18.7	18.7	18.4	18.4
85°	10.9	11.3	10.9	10.7	10.7	10.7	10.9
87.5°	6.1	6.0	6.0	6.0	6.0	6.1	5.9
90°	9.7	9.5	9.5	9.6	9.7	9.7	9.8
92.5°	9.2	9.3	9.3	9.3	9.3	9.3	9.3
95°	18.4	18.4	18.3	18.3	18.1	18.0	17.9
97.5°	31.0	31.0	31.0	31.0	31.0	31.0	30.9
100°	39.8	39.8	39.7	39.6	39.6	39.5	39.5
102.5°	49.3	49.4	49.4	49.3	49.2	49.2	49.2
105°	63.8	63.9	63.9	63.9	63.9	63.9	63.9
107.5°	79.2	79.2	79.1	78.8	78.5	78.2	77.9
110°	89.6	89.6	89.5	89.3	89.1	88.9	88.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	100.0	99.8	99.6	99.5	99.4	99.2	99.1
115°	116.2	116.1	116.0	115.8	115.6	115.4	115.2
117.5°	131.7	131.5	131.3	131.2	131.0	130.8	130.6
120°	142.3	142.3	142.2	142.0	141.8	141.6	141.5
122.5°	152.9	152.7	152.6	152.5	152.3	152.1	152.1
125°	168.8	168.6	168.4	168.4	168.4	168.3	168.2
127.5°	184.3	184.0	183.8	183.6	183.4	183.2	183.0
130°	194.9	194.8	194.6	194.4	194.0	193.8	193.6
132.5°	205.0	204.8	204.6	204.3	204.2	203.9	203.7
135°	220.5	220.4	220.3	220.0	219.9	219.7	219.5
137.5°	235.0	235.0	234.8	234.6	234.3	234.1	233.7
140°	244.8	244.8	244.7	244.4	244.2	243.9	243.7
142.5°	253.7	253.8	253.7	253.5	253.2	252.9	252.7
145°	267.2	267.3	267.2	266.9	266.7	266.4	266.1
147.5°	279.1	279.2	279.2	278.9	278.7	278.4	278.2
150°	286.6	286.8	286.8	286.6	286.4	286.3	286.0
152.5°	294.2	294.4	294.4	294.2	293.9	293.7	293.4
155°	303.7	304.0	304.1	303.9	303.7	303.5	303.3
157.5°	312.6	313.0	313.1	312.7	312.4	312.2	311.9
160°	317.7	318.1	318.1	317.9	317.6	317.4	317.2
162.5°	322.5	322.9	322.9	322.7	322.4	322.0	321.7
165°	328.6	329.0	329.1	328.7	328.4	328.1	327.8
167.5°	333.5	334.0	334.1	333.8	333.4	333.0	332.7
170°	336.3	336.8	336.8	336.5	336.1	335.7	335.3
172.5°	338.4	338.8	338.9	338.5	338.1	337.8	337.4
175°	340.6	341.1	341.1	340.8	340.4	340.0	339.6
177.5°	341.5	341.9	341.9	341.5	341.3	341.0	340.6
180°	341.4	341.4	341.4	341.4	341.4	341.4	341.4

(END OF REPORT)