

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: P331645-830

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331645-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
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-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 330 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2986.0 lumens
Efficiency: N/A
Efficacy: 108.6 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

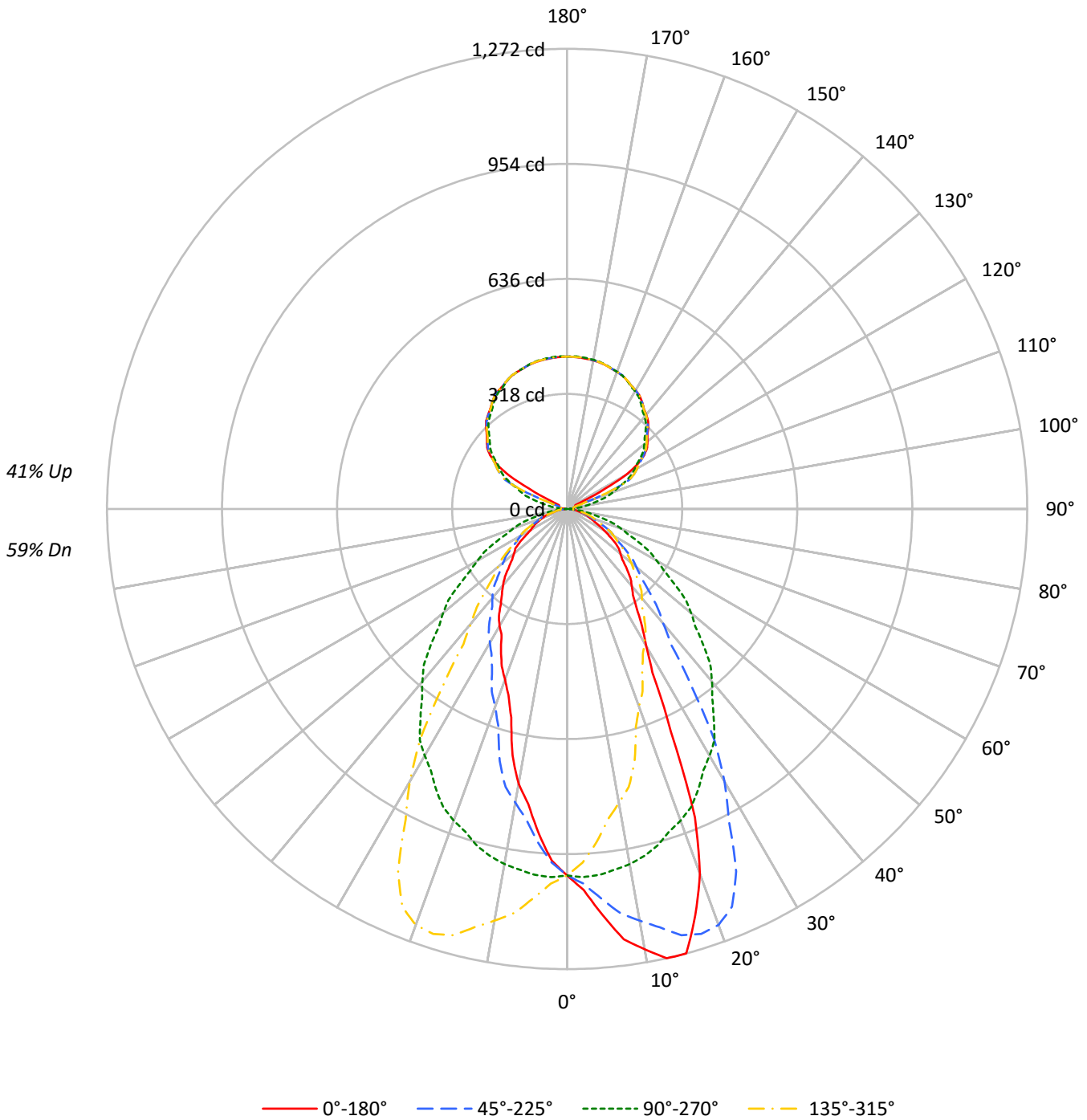
Input Watts (W): 27.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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	64	64	64	59																												
1	101	97	93	90	94	90	87	84	79	76	74	68	66	65	58	57	56	51																												
2	92	85	80	75	86	80	75	71	70	66	63	61	58	56	52	50	49	44																												
3	85	76	69	64	79	71	65	60	63	58	54	55	51	48	47	45	43	39																												
4	78	68	61	55	73	64	57	52	56	51	47	49	46	42	43	40	38	34																												
5	72	61	54	48	67	58	51	46	51	46	42	45	41	37	39	36	33	31																												
6	67	56	48	42	63	52	45	40	47	41	37	41	37	33	36	33	30	27																												
7	62	51	43	38	58	48	41	36	43	37	33	38	33	30	33	30	27	25																												
8	58	46	39	34	54	44	37	32	39	34	30	35	31	27	31	27	25	23																												
9	54	43	35	30	51	40	34	29	36	31	27	32	28	25	29	25	23	21																												
10	51	39	32	28	48	37	31	27	34	28	25	30	26	23	27	23	21	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	11.5
30°-40°	327.7	11.0
40°-50°	280.7	9.4
50°-60°	213.8	7.2
60°-70°	135.1	4.5
70°-80°	67.5	2.3
80°-90°	18.6	0.6
90°-100°	14.0	0.5
100°-110°	51.5	1.7
110°-120°	137.7	4.6
120°-130°	227.3	7.6
130°-140°	241.8	8.1
140°-150°	224.7	7.5
150°-160°	180.7	6.1
160°-170°	116.4	3.9
170°-180°	40.1	1.3
0°-30°	708.4	23.7
0°-40°	1036.1	34.7
0°-60°	1530.5	51.3
0°-90°	1751.7	58.7
90°-120°	203.3	6.8
90°-150°	897.1	30.0
90°-180°	1234.0	41.3
0°-180°	2986.0	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°	8	0	8	0	8	4
95°	13	20	13	20	13	12
105°	23	93	23	93	23	24
115°	25	175	25	175	25	63
125°	260	248	260	248	260	225
135°	317	307	317	307	317	244
145°	361	356	361	356	361	226
155°	392	392	392	392	392	181
165°	412	413	412	413	412	116
175°	420	422	420	422	420	40
180°	421	421	421	421	421	



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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°	6.1	6.4	6.4	6.3	6.3	6.3	6.2	6.4	6.0	6.3	5.9
90°	8.2	8.1	7.9	7.8	7.7	7.4	7.1	6.8	6.4	6.1	5.6
92.5°	8.2	8.1	8.1	8.0	7.9	7.7	7.6	7.4	7.3	7.1	6.8
95°	13.1	13.2	13.2	13.3	13.4	13.2	12.9	12.5	12.3	11.9	11.4
97.5°	17.5	17.4	17.3	17.2	17.2	17.0	16.7	16.5	16.2	15.9	14.8
100°	20.5	20.3	20.2	20.0	19.9	19.5	19.0	18.5	17.9	17.3	16.2
102.5°	21.9	21.7	21.5	21.3	21.1	20.6	20.0	19.2	18.6	17.8	27.5
105°	23.2	22.9	22.6	22.3	22.1	21.6	20.8	20.1	19.3	18.6	37.0
107.5°	23.8	23.6	23.3	23.0	22.7	23.0	23.8	24.5	25.3	26.0	48.2
110°	24.0	23.8	23.6	23.3	23.0	26.2	33.0	39.8	46.6	53.3	72.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	24.3	24.1	23.8	23.7	23.5	35.7	60.4	85.1	109.8	134.5	139.3
115°	25.0	29.9	34.8	39.6	44.5	62.6	94.0	125.4	156.7	188.0	186.3
117.5°	102.1	118.1	134.1	150.1	166.2	178.0	185.5	193.1	200.7	208.3	207.1
120°	185.9	195.0	204.2	213.3	222.4	226.6	225.8	225.0	224.2	223.4	222.2
122.5°	232.0	233.8	235.5	237.3	239.0	239.7	239.2	238.7	238.3	237.8	236.5
125°	260.5	260.3	260.1	260.0	259.8	259.4	258.9	258.4	258.0	257.5	256.2
127.5°	278.6	278.5	278.5	278.5	278.4	278.1	277.4	276.7	276.0	275.3	274.4
130°	289.8	289.9	289.9	290.0	290.1	289.7	289.0	288.2	287.5	286.8	286.1
132.5°	300.8	300.9	301.0	301.0	301.0	300.8	300.1	299.5	298.9	298.2	297.5
135°	316.6	316.8	316.9	317.1	317.2	316.9	316.2	315.6	314.9	314.2	313.6
137.5°	331.1	331.3	331.6	331.8	332.0	331.8	331.1	330.5	329.8	329.1	328.5
140°	340.1	340.4	340.8	341.1	341.5	341.3	340.7	340.1	339.5	338.8	338.2
142.5°	348.8	349.2	349.6	349.9	350.2	350.2	349.6	349.0	348.5	347.9	347.0
145°	361.1	361.5	361.8	362.1	362.5	362.4	361.9	361.5	361.0	360.5	359.4
147.5°	371.9	372.2	372.5	372.8	373.1	373.1	372.7	372.3	371.9	371.6	370.5
150°	378.5	378.8	379.2	379.6	379.8	379.8	379.4	379.0	378.6	378.2	377.1
152.5°	384.1	384.6	385.0	385.4	385.9	385.9	385.5	385.1	384.7	384.3	383.2
155°	391.9	392.5	393.0	393.5	394.1	394.2	393.7	393.3	392.9	392.5	391.7
157.5°	399.1	399.5	400.1	400.6	401.1	401.1	400.8	400.3	399.8	399.4	398.8
160°	403.2	403.7	404.2	404.6	405.1	405.1	404.7	404.4	403.9	403.5	403.1
162.5°	406.6	407.2	407.7	408.3	409.0	409.0	408.5	408.0	407.6	407.2	406.8
165°	411.7	412.2	412.6	413.1	413.6	413.6	413.1	412.6	412.2	411.7	411.5
167.5°	414.9	415.6	416.1	416.8	417.4	417.5	417.0	416.5	416.0	415.6	415.4
170°	416.9	417.5	418.1	418.8	419.3	419.4	419.0	418.5	418.0	417.5	417.4
172.5°	418.4	419.0	419.6	420.2	420.8	420.8	420.4	419.9	419.4	419.0	418.9
175°	419.6	420.3	421.0	421.7	422.4	422.4	422.0	421.5	421.0	420.6	420.5
177.5°	420.5	420.9	421.4	421.9	422.4	422.4	422.1	421.7	421.3	420.9	420.8
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1



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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°	5.7	5.9	5.8	5.5	5.6	5.7	7.0	8.2	7.3	6.6	6.1
90°	5.0	4.4	4.0	3.3	2.5	1.8	1.0	0.3	1.0	1.8	2.5
92.5°	6.5	6.2	6.0	5.8	5.9	6.0	6.1	6.1	6.1	6.0	5.9
95°	10.9	10.5	10.0	10.8	13.1	15.4	17.5	19.8	17.5	15.4	13.1
97.5°	13.7	12.6	11.5	14.1	20.5	26.7	33.0	39.3	33.0	26.7	20.5
100°	15.1	13.9	12.7	16.9	26.1	35.3	44.7	53.9	44.7	35.3	26.1
102.5°	37.1	46.8	56.4	62.2	64.2	66.1	68.1	70.0	68.1	66.1	64.2
105°	55.6	74.1	92.6	100.8	98.8	96.7	94.6	92.7	94.6	96.7	98.8
107.5°	70.4	92.6	114.7	125.0	123.4	121.7	120.1	118.4	120.1	121.7	123.4
110°	92.5	112.1	131.6	140.7	139.3	137.9	136.4	135.0	136.4	137.9	139.3



TEST NUMBER: P331645-830

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	144.2	149.0	153.8	155.6	154.4	153.2	151.8	150.6	151.8	153.2	154.4
115°	184.6	182.9	181.3	179.8	178.7	177.6	176.3	175.2	176.3	177.6	178.7
117.5°	205.9	204.8	203.6	202.4	201.1	199.8	198.5	197.3	198.5	199.8	201.1
120°	220.9	219.7	218.5	217.4	216.4	215.4	214.3	213.3	214.3	215.4	216.4
122.5°	235.1	233.8	232.4	231.3	230.2	229.1	228.1	227.0	228.1	229.1	230.2
125°	255.0	253.6	252.4	251.3	250.4	249.5	248.6	247.8	248.6	249.5	250.4
127.5°	273.4	272.4	271.5	270.5	269.6	268.5	267.6	266.6	267.6	268.5	269.6
130°	285.3	284.6	283.8	282.9	281.8	280.7	279.7	278.5	279.7	280.7	281.8
132.5°	296.7	296.0	295.2	294.5	293.5	292.6	291.6	290.8	291.6	292.6	293.5
135°	313.0	312.4	311.8	310.9	309.8	308.8	307.6	306.6	307.6	308.8	309.8
137.5°	327.7	327.1	326.4	325.6	324.9	324.1	323.4	322.6	323.4	324.1	324.9
140°	337.4	336.7	335.9	335.3	334.7	334.1	333.7	333.1	333.7	334.1	334.7
142.5°	346.2	345.3	344.5	343.8	343.4	342.8	342.3	341.9	342.3	342.8	343.4
145°	358.3	357.0	355.9	355.3	355.4	355.5	355.6	355.6	355.6	355.5	355.4
147.5°	369.4	368.2	367.0	366.6	366.8	367.1	367.4	367.7	367.4	367.1	366.8
150°	376.1	374.9	373.9	373.5	374.0	374.5	374.9	375.4	374.9	374.5	374.0
152.5°	382.2	381.2	380.1	379.9	380.4	381.0	381.5	382.0	381.5	381.0	380.4
155°	390.9	390.1	389.3	389.2	389.7	390.4	391.0	391.6	391.0	390.4	389.7
157.5°	398.2	397.7	397.1	397.0	397.6	398.0	398.6	399.1	398.6	398.0	397.6
160°	402.7	402.3	401.9	401.9	402.3	402.7	403.1	403.5	403.1	402.7	402.3
162.5°	406.4	406.0	405.8	405.8	406.1	406.6	407.0	407.4	407.0	406.6	406.1
165°	411.3	411.1	410.9	411.0	411.4	411.8	412.3	412.6	412.3	411.8	411.4
167.5°	415.2	415.0	414.8	414.9	415.3	415.8	416.1	416.5	416.1	415.8	415.3
170°	417.3	417.1	417.0	417.1	417.5	417.9	418.3	418.8	418.3	417.9	417.5
172.5°	418.7	418.6	418.4	418.6	419.0	419.3	419.8	420.2	419.8	419.3	419.0
175°	420.3	420.2	420.0	420.2	420.7	421.1	421.6	422.1	421.6	421.1	420.7
177.5°	420.8	420.8	420.8	420.8	421.2	421.6	422.0	422.4	422.0	421.6	421.2
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1



TEST NUMBER: P331645-830

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

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°	6.0	5.8	5.4	5.5	5.7	5.5	5.5	5.3	5.4	5.5	5.2
90°	3.3	4.0	4.4	5.0	5.6	6.1	6.4	6.8	7.1	7.4	7.7
92.5°	5.8	6.0	6.2	6.5	6.8	7.1	7.3	7.4	7.6	7.7	7.9
95°	10.8	10.0	10.5	10.9	11.4	11.9	12.3	12.5	12.9	13.2	13.4
97.5°	14.1	11.5	12.6	13.7	14.8	15.9	16.2	16.5	16.7	17.0	17.2
100°	16.9	12.7	13.9	15.1	16.2	17.3	17.9	18.5	19.0	19.5	19.9
102.5°	62.2	56.4	46.8	37.1	27.5	17.8	18.6	19.2	20.0	20.6	21.1
105°	100.8	92.6	74.1	55.6	37.0	18.6	19.3	20.1	20.8	21.6	22.1
107.5°	125.0	114.7	92.6	70.4	48.2	26.0	25.3	24.5	23.8	23.0	22.7
110°	140.7	131.6	112.1	92.5	72.9	53.3	46.6	39.8	33.0	26.2	23.0



TEST NUMBER: P331645-830

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	155.6	153.8	149.0	144.2	139.3	134.5	109.8	85.1	60.4	35.7	23.5
115°	179.8	181.3	182.9	184.6	186.3	188.0	156.7	125.4	94.0	62.6	44.5
117.5°	202.4	203.6	204.8	205.9	207.1	208.3	200.7	193.1	185.5	178.0	166.2
120°	217.4	218.5	219.7	220.9	222.2	223.4	224.2	225.0	225.8	226.6	222.4
122.5°	231.3	232.4	233.8	235.1	236.5	237.8	238.3	238.7	239.2	239.7	239.0
125°	251.3	252.4	253.6	255.0	256.2	257.5	258.0	258.4	258.9	259.4	259.8
127.5°	270.5	271.5	272.4	273.4	274.4	275.3	276.0	276.7	277.4	278.1	278.4
130°	282.9	283.8	284.6	285.3	286.1	286.8	287.5	288.2	289.0	289.7	290.1
132.5°	294.5	295.2	296.0	296.7	297.5	298.2	298.9	299.5	300.1	300.8	301.0
135°	310.9	311.8	312.4	313.0	313.6	314.2	314.9	315.6	316.2	316.9	317.2
137.5°	325.6	326.4	327.1	327.7	328.5	329.1	329.8	330.5	331.1	331.8	332.0
140°	335.3	335.9	336.7	337.4	338.2	338.8	339.5	340.1	340.7	341.3	341.5
142.5°	343.8	344.5	345.3	346.2	347.0	347.9	348.5	349.0	349.6	350.2	350.2
145°	355.3	355.9	357.0	358.3	359.4	360.5	361.0	361.5	361.9	362.4	362.5
147.5°	366.6	367.0	368.2	369.4	370.5	371.6	371.9	372.3	372.7	373.1	373.1
150°	373.5	373.9	374.9	376.1	377.1	378.2	378.6	379.0	379.4	379.8	379.8
152.5°	379.9	380.1	381.2	382.2	383.2	384.3	384.7	385.1	385.5	385.9	385.9
155°	389.2	389.3	390.1	390.9	391.7	392.5	392.9	393.3	393.7	394.2	394.1
157.5°	397.0	397.1	397.7	398.2	398.8	399.4	399.8	400.3	400.8	401.1	401.1
160°	401.9	401.9	402.3	402.7	403.1	403.5	403.9	404.4	404.7	405.1	405.1
162.5°	405.8	405.8	406.0	406.4	406.8	407.2	407.6	408.0	408.5	409.0	409.0
165°	411.0	410.9	411.1	411.3	411.5	411.7	412.2	412.6	413.1	413.6	413.6
167.5°	414.9	414.8	415.0	415.2	415.4	415.6	416.0	416.5	417.0	417.5	417.4
170°	417.1	417.0	417.1	417.3	417.4	417.5	418.0	418.5	419.0	419.4	419.3
172.5°	418.6	418.4	418.6	418.7	418.9	419.0	419.4	419.9	420.4	420.8	420.8
175°	420.2	420.0	420.2	420.3	420.5	420.6	421.0	421.5	422.0	422.4	422.4
177.5°	420.8	420.8	420.8	420.8	420.8	420.9	421.3	421.7	422.1	422.4	422.4
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1



TEST NUMBER: P331645-830

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

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°	5.2	5.0	5.3	5.0	5.3	5.0	5.2	5.2	5.5	5.4	5.3
90°	7.8	7.9	8.1	8.2	8.1	7.9	7.8	7.7	7.4	7.1	6.8
92.5°	8.0	8.1	8.1	8.2	8.1	8.1	8.0	7.9	7.7	7.6	7.4
95°	13.3	13.2	13.2	13.1	13.2	13.2	13.3	13.4	13.2	12.9	12.5
97.5°	17.2	17.3	17.4	17.5	17.4	17.3	17.2	17.2	17.0	16.7	16.5
100°	20.0	20.2	20.3	20.5	20.3	20.2	20.0	19.9	19.5	19.0	18.5
102.5°	21.3	21.5	21.7	21.9	21.7	21.5	21.3	21.1	20.6	20.0	19.2
105°	22.3	22.6	22.9	23.2	22.9	22.6	22.3	22.1	21.6	20.8	20.1
107.5°	23.0	23.3	23.6	23.8	23.6	23.3	23.0	22.7	23.0	23.8	24.5
110°	23.3	23.6	23.8	24.0	23.8	23.6	23.3	23.0	26.2	33.0	39.8



TEST NUMBER: P331645-830

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	23.7	23.8	24.1	24.3	24.1	23.8	23.7	23.5	35.7	60.4	85.1
115°	39.6	34.8	29.9	25.0	29.9	34.8	39.6	44.5	62.6	94.0	125.4
117.5°	150.1	134.1	118.1	102.1	118.1	134.1	150.1	166.2	178.0	185.5	193.1
120°	213.3	204.2	195.0	185.9	195.0	204.2	213.3	222.4	226.6	225.8	225.0
122.5°	237.3	235.5	233.8	232.0	233.8	235.5	237.3	239.0	239.7	239.2	238.7
125°	260.0	260.1	260.3	260.5	260.3	260.1	260.0	259.8	259.4	258.9	258.4
127.5°	278.5	278.5	278.5	278.6	278.5	278.5	278.5	278.4	278.1	277.4	276.7
130°	290.0	289.9	289.9	289.8	289.9	289.9	290.0	290.1	289.7	289.0	288.2
132.5°	301.0	301.0	300.9	300.8	300.9	301.0	301.0	301.0	300.8	300.1	299.5
135°	317.1	316.9	316.8	316.6	316.8	316.9	317.1	317.2	316.9	316.2	315.6
137.5°	331.8	331.6	331.3	331.1	331.3	331.6	331.8	332.0	331.8	331.1	330.5
140°	341.1	340.8	340.4	340.1	340.4	340.8	341.1	341.5	341.3	340.7	340.1
142.5°	349.9	349.6	349.2	348.8	349.2	349.6	349.9	350.2	350.2	349.6	349.0
145°	362.1	361.8	361.5	361.1	361.5	361.8	362.1	362.5	362.4	361.9	361.5
147.5°	372.8	372.5	372.2	371.9	372.2	372.5	372.8	373.1	373.1	372.7	372.3
150°	379.6	379.2	378.8	378.5	378.8	379.2	379.6	379.8	379.8	379.4	379.0
152.5°	385.4	385.0	384.6	384.1	384.6	385.0	385.4	385.9	385.9	385.5	385.1
155°	393.5	393.0	392.5	391.9	392.5	393.0	393.5	394.1	394.2	393.7	393.3
157.5°	400.6	400.1	399.5	399.1	399.5	400.1	400.6	401.1	401.1	400.8	400.3
160°	404.6	404.2	403.7	403.2	403.7	404.2	404.6	405.1	405.1	404.7	404.4
162.5°	408.3	407.7	407.2	406.6	407.2	407.7	408.3	409.0	409.0	408.5	408.0
165°	413.1	412.6	412.2	411.7	412.2	412.6	413.1	413.6	413.6	413.1	412.6
167.5°	416.8	416.1	415.6	414.9	415.6	416.1	416.8	417.4	417.5	417.0	416.5
170°	418.8	418.1	417.5	416.9	417.5	418.1	418.8	419.3	419.4	419.0	418.5
172.5°	420.2	419.6	419.0	418.4	419.0	419.6	420.2	420.8	420.8	420.4	419.9
175°	421.7	421.0	420.3	419.6	420.3	421.0	421.7	422.4	422.4	422.0	421.5
177.5°	421.9	421.4	420.9	420.5	420.9	421.4	421.9	422.4	422.4	422.1	421.7
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1



TEST NUMBER: P331645-830

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

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°	5.5	5.5	5.7	5.5	5.4	5.8	6.0	6.1	6.6	7.3	8.2
90°	6.4	6.1	5.6	5.0	4.4	4.0	3.3	2.5	1.8	1.0	0.3
92.5°	7.3	7.1	6.8	6.5	6.2	6.0	5.8	5.9	6.0	6.1	6.1
95°	12.3	11.9	11.4	10.9	10.5	10.0	10.8	13.1	15.4	17.5	19.8
97.5°	16.2	15.9	14.8	13.7	12.6	11.5	14.1	20.5	26.7	33.0	39.3
100°	17.9	17.3	16.2	15.1	13.9	12.7	16.9	26.1	35.3	44.7	53.9
102.5°	18.6	17.8	27.5	37.1	46.8	56.4	62.2	64.2	66.1	68.1	70.0
105°	19.3	18.6	37.0	55.6	74.1	92.6	100.8	98.8	96.7	94.6	92.7
107.5°	25.3	26.0	48.2	70.4	92.6	114.7	125.0	123.4	121.7	120.1	118.4
110°	46.6	53.3	72.9	92.5	112.1	131.6	140.7	139.3	137.9	136.4	135.0



TEST NUMBER: P331645-830

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	109.8	134.5	139.3	144.2	149.0	153.8	155.6	154.4	153.2	151.8	150.6
115°	156.7	188.0	186.3	184.6	182.9	181.3	179.8	178.7	177.6	176.3	175.2
117.5°	200.7	208.3	207.1	205.9	204.8	203.6	202.4	201.1	199.8	198.5	197.3
120°	224.2	223.4	222.2	220.9	219.7	218.5	217.4	216.4	215.4	214.3	213.3
122.5°	238.3	237.8	236.5	235.1	233.8	232.4	231.3	230.2	229.1	228.1	227.0
125°	258.0	257.5	256.2	255.0	253.6	252.4	251.3	250.4	249.5	248.6	247.8
127.5°	276.0	275.3	274.4	273.4	272.4	271.5	270.5	269.6	268.5	267.6	266.6
130°	287.5	286.8	286.1	285.3	284.6	283.8	282.9	281.8	280.7	279.7	278.5
132.5°	298.9	298.2	297.5	296.7	296.0	295.2	294.5	293.5	292.6	291.6	290.8
135°	314.9	314.2	313.6	313.0	312.4	311.8	310.9	309.8	308.8	307.6	306.6
137.5°	329.8	329.1	328.5	327.7	327.1	326.4	325.6	324.9	324.1	323.4	322.6
140°	339.5	338.8	338.2	337.4	336.7	335.9	335.3	334.7	334.1	333.7	333.1
142.5°	348.5	347.9	347.0	346.2	345.3	344.5	343.8	343.4	342.8	342.3	341.9
145°	361.0	360.5	359.4	358.3	357.0	355.9	355.3	355.4	355.5	355.6	355.6
147.5°	371.9	371.6	370.5	369.4	368.2	367.0	366.6	366.8	367.1	367.4	367.7
150°	378.6	378.2	377.1	376.1	374.9	373.9	373.5	374.0	374.5	374.9	375.4
152.5°	384.7	384.3	383.2	382.2	381.2	380.1	379.9	380.4	381.0	381.5	382.0
155°	392.9	392.5	391.7	390.9	390.1	389.3	389.2	389.7	390.4	391.0	391.6
157.5°	399.8	399.4	398.8	398.2	397.7	397.1	397.0	397.6	398.0	398.6	399.1
160°	403.9	403.5	403.1	402.7	402.3	401.9	401.9	402.3	402.7	403.1	403.5
162.5°	407.6	407.2	406.8	406.4	406.0	405.8	405.8	406.1	406.6	407.0	407.4
165°	412.2	411.7	411.5	411.3	411.1	410.9	411.0	411.4	411.8	412.3	412.6
167.5°	416.0	415.6	415.4	415.2	415.0	414.8	414.9	415.3	415.8	416.1	416.5
170°	418.0	417.5	417.4	417.3	417.1	417.0	417.1	417.5	417.9	418.3	418.8
172.5°	419.4	419.0	418.9	418.7	418.6	418.4	418.6	419.0	419.3	419.8	420.2
175°	421.0	420.6	420.5	420.3	420.2	420.0	420.2	420.7	421.1	421.6	422.1
177.5°	421.3	420.9	420.8	420.8	420.8	420.8	420.8	421.2	421.6	422.0	422.4
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1



TEST NUMBER: P331645-830

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

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°	7.0	5.7	5.6	5.5	5.8	5.9	5.7	5.9	6.3	6.0	6.4
90°	1.0	1.8	2.5	3.3	4.0	4.4	5.0	5.6	6.1	6.4	6.8
92.5°	6.1	6.0	5.9	5.8	6.0	6.2	6.5	6.8	7.1	7.3	7.4
95°	17.5	15.4	13.1	10.8	10.0	10.5	10.9	11.4	11.9	12.3	12.5
97.5°	33.0	26.7	20.5	14.1	11.5	12.6	13.7	14.8	15.9	16.2	16.5
100°	44.7	35.3	26.1	16.9	12.7	13.9	15.1	16.2	17.3	17.9	18.5
102.5°	68.1	66.1	64.2	62.2	56.4	46.8	37.1	27.5	17.8	18.6	19.2
105°	94.6	96.7	98.8	100.8	92.6	74.1	55.6	37.0	18.6	19.3	20.1
107.5°	120.1	121.7	123.4	125.0	114.7	92.6	70.4	48.2	26.0	25.3	24.5
110°	136.4	137.9	139.3	140.7	131.6	112.1	92.5	72.9	53.3	46.6	39.8



TEST NUMBER: P331645-830

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	151.8	153.2	154.4	155.6	153.8	149.0	144.2	139.3	134.5	109.8	85.1
115°	176.3	177.6	178.7	179.8	181.3	182.9	184.6	186.3	188.0	156.7	125.4
117.5°	198.5	199.8	201.1	202.4	203.6	204.8	205.9	207.1	208.3	200.7	193.1
120°	214.3	215.4	216.4	217.4	218.5	219.7	220.9	222.2	223.4	224.2	225.0
122.5°	228.1	229.1	230.2	231.3	232.4	233.8	235.1	236.5	237.8	238.3	238.7
125°	248.6	249.5	250.4	251.3	252.4	253.6	255.0	256.2	257.5	258.0	258.4
127.5°	267.6	268.5	269.6	270.5	271.5	272.4	273.4	274.4	275.3	276.0	276.7
130°	279.7	280.7	281.8	282.9	283.8	284.6	285.3	286.1	286.8	287.5	288.2
132.5°	291.6	292.6	293.5	294.5	295.2	296.0	296.7	297.5	298.2	298.9	299.5
135°	307.6	308.8	309.8	310.9	311.8	312.4	313.0	313.6	314.2	314.9	315.6
137.5°	323.4	324.1	324.9	325.6	326.4	327.1	327.7	328.5	329.1	329.8	330.5
140°	333.7	334.1	334.7	335.3	335.9	336.7	337.4	338.2	338.8	339.5	340.1
142.5°	342.3	342.8	343.4	343.8	344.5	345.3	346.2	347.0	347.9	348.5	349.0
145°	355.6	355.5	355.4	355.3	355.9	357.0	358.3	359.4	360.5	361.0	361.5
147.5°	367.4	367.1	366.8	366.6	367.0	368.2	369.4	370.5	371.6	371.9	372.3
150°	374.9	374.5	374.0	373.5	373.9	374.9	376.1	377.1	378.2	378.6	379.0
152.5°	381.5	381.0	380.4	379.9	380.1	381.2	382.2	383.2	384.3	384.7	385.1
155°	391.0	390.4	389.7	389.2	389.3	390.1	390.9	391.7	392.5	392.9	393.3
157.5°	398.6	398.0	397.6	397.0	397.1	397.7	398.2	398.8	399.4	399.8	400.3
160°	403.1	402.7	402.3	401.9	401.9	402.3	402.7	403.1	403.5	403.9	404.4
162.5°	407.0	406.6	406.1	405.8	405.8	406.0	406.4	406.8	407.2	407.6	408.0
165°	412.3	411.8	411.4	411.0	410.9	411.1	411.3	411.5	411.7	412.2	412.6
167.5°	416.1	415.8	415.3	414.9	414.8	415.0	415.2	415.4	415.6	416.0	416.5
170°	418.3	417.9	417.5	417.1	417.0	417.1	417.3	417.4	417.5	418.0	418.5
172.5°	419.8	419.3	419.0	418.6	418.4	418.6	418.7	418.9	419.0	419.4	419.9
175°	421.6	421.1	420.7	420.2	420.0	420.2	420.3	420.5	420.6	421.0	421.5
177.5°	422.0	421.6	421.2	420.8	420.8	420.8	420.8	420.8	420.9	421.3	421.7
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1	421.1



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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°	6.2	6.3	6.3	6.3	6.4	6.4	6.1
90°	7.1	7.4	7.7	7.8	7.9	8.1	8.2
92.5°	7.6	7.7	7.9	8.0	8.1	8.1	8.2
95°	12.9	13.2	13.4	13.3	13.2	13.2	13.1
97.5°	16.7	17.0	17.2	17.2	17.3	17.4	17.5
100°	19.0	19.5	19.9	20.0	20.2	20.3	20.5
102.5°	20.0	20.6	21.1	21.3	21.5	21.7	21.9
105°	20.8	21.6	22.1	22.3	22.6	22.9	23.2
107.5°	23.8	23.0	22.7	23.0	23.3	23.6	23.8
110°	33.0	26.2	23.0	23.3	23.6	23.8	24.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	60.4	35.7	23.5	23.7	23.8	24.1	24.3
115°	94.0	62.6	44.5	39.6	34.8	29.9	25.0
117.5°	185.5	178.0	166.2	150.1	134.1	118.1	102.1
120°	225.8	226.6	222.4	213.3	204.2	195.0	185.9
122.5°	239.2	239.7	239.0	237.3	235.5	233.8	232.0
125°	258.9	259.4	259.8	260.0	260.1	260.3	260.5
127.5°	277.4	278.1	278.4	278.5	278.5	278.5	278.6
130°	289.0	289.7	290.1	290.0	289.9	289.9	289.8
132.5°	300.1	300.8	301.0	301.0	301.0	300.9	300.8
135°	316.2	316.9	317.2	317.1	316.9	316.8	316.6
137.5°	331.1	331.8	332.0	331.8	331.6	331.3	331.1
140°	340.7	341.3	341.5	341.1	340.8	340.4	340.1
142.5°	349.6	350.2	350.2	349.9	349.6	349.2	348.8
145°	361.9	362.4	362.5	362.1	361.8	361.5	361.1
147.5°	372.7	373.1	373.1	372.8	372.5	372.2	371.9
150°	379.4	379.8	379.8	379.6	379.2	378.8	378.5
152.5°	385.5	385.9	385.9	385.4	385.0	384.6	384.1
155°	393.7	394.2	394.1	393.5	393.0	392.5	391.9
157.5°	400.8	401.1	401.1	400.6	400.1	399.5	399.1
160°	404.7	405.1	405.1	404.6	404.2	403.7	403.2
162.5°	408.5	409.0	409.0	408.3	407.7	407.2	406.6
165°	413.1	413.6	413.6	413.1	412.6	412.2	411.7
167.5°	417.0	417.5	417.4	416.8	416.1	415.6	414.9
170°	419.0	419.4	419.3	418.8	418.1	417.5	416.9
172.5°	420.4	420.8	420.8	420.2	419.6	419.0	418.4
175°	422.0	422.4	422.4	421.7	421.0	420.3	419.6
177.5°	422.1	422.4	422.4	421.9	421.4	420.9	420.5
180°	421.1	421.1	421.1	421.1	421.1	421.1	421.1

(END OF REPORT)