

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: METALUX

Report Number: P201355

Luminaire Tested: **4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28228)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U
Description: 4 ft. Low Bay Linear, 6000 lm, Wht Asym lens, 4K
Light Source: (308) 4000K CCT, 80 CRI LEDS
2UT217098A8404C, 2UT217056A8404B
Ballast/Driver: OSRAM
OT50W0620CC, OT30W0400CC

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6151.2 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 2.07 / 1.2 / 1.84
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

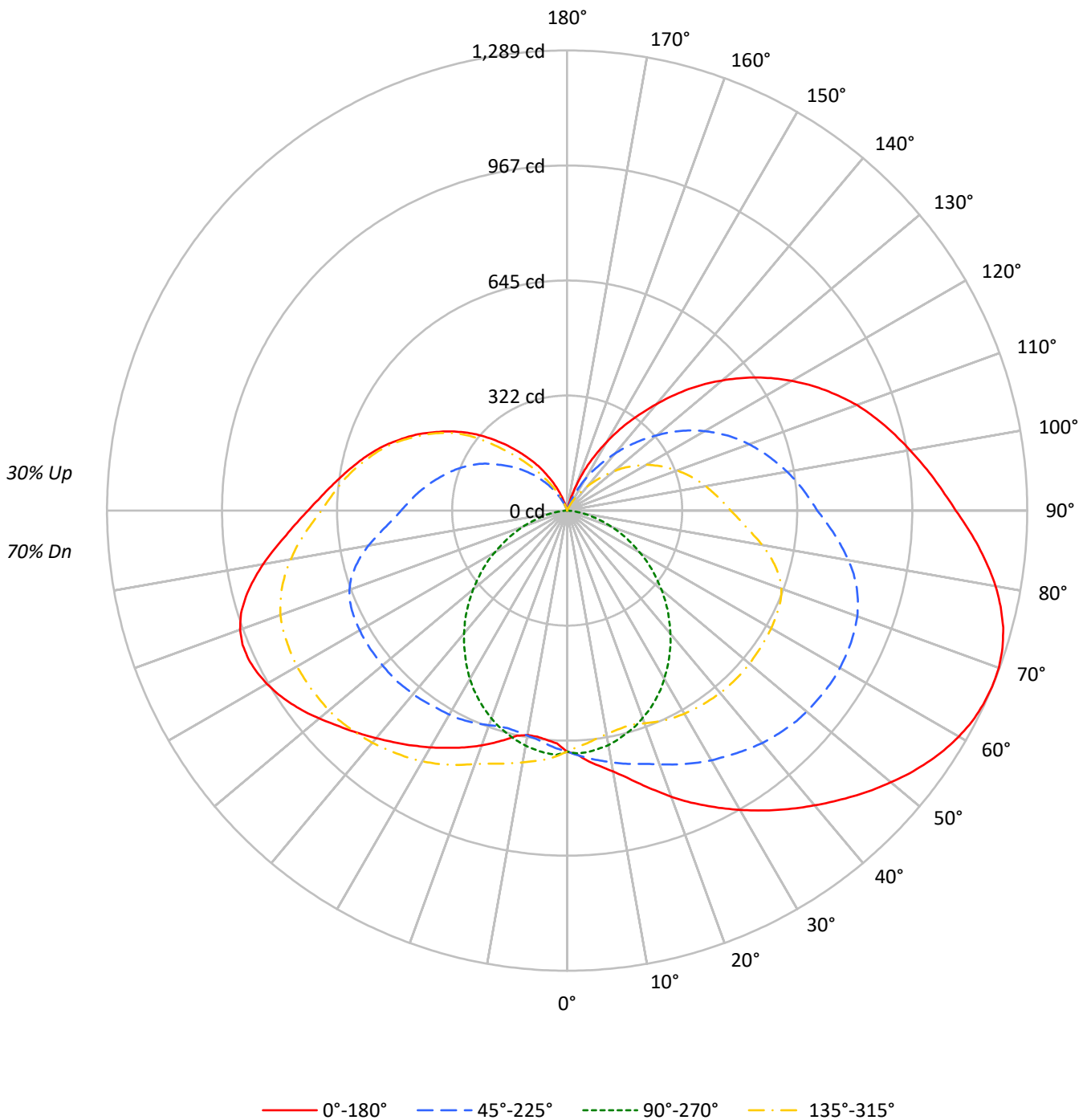
Input Watts (W): 46.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75	70
1	97	90	84	79	91	85	80	75	75	71	67	66	63	60	58	55	53	48
2	86	76	68	60	81	72	64	57	63	57	51	55	50	46	48	44	40	36
3	78	65	56	48	72	61	53	46	54	47	41	47	41	36	41	36	32	28
4	70	57	47	39	65	53	44	37	47	39	33	41	35	30	35	30	26	23
5	64	50	40	33	60	47	38	31	41	34	28	36	30	25	31	26	22	19
6	59	44	35	28	55	42	33	26	37	29	24	32	26	21	28	23	19	16
7	54	40	30	24	50	37	29	23	33	26	21	29	23	18	25	20	16	14
8	50	36	27	21	47	34	26	20	30	23	18	27	21	16	23	18	14	12
9	47	33	24	18	44	31	23	18	27	21	16	24	18	14	21	16	13	10
10	44	30	22	16	41	28	21	16	25	19	14	22	17	13	20	15	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10877	10877	10877	10877
5°	10298	10933	9408	10982
10°	9955	10814	8559	10847
15°	9919	10612	8305	10645
20°	10065	10400	8259	10434
25°	10246	10155	8244	10155
30°	10477	9827	8291	9845
35°	10760	9471	8395	9452
40°	11087	9070	8558	9050
45°	11487	8643	8809	8621
50°	11946	8144	9142	8120
55°	12444	7610	9534	7558
60°	12932	6948	9911	6918
65°	13356	6277	10231	6209
70°	13711	5442	10388	5400
75°	13942	4432	10273	4380
80°	14027	3153	9954	3225
85°	14038	1507	9586	1739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.0
10°-20°	194.2	3.2
20°-30°	327.0	5.3
30°-40°	454.1	7.4
40°-50°	568.4	9.2
50°-60°	661.0	10.7
60°-70°	716.4	11.6
70°-80°	705.7	11.5
80°-90°	625.3	10.2
90°-100°	539.2	8.8
100°-110°	454.0	7.4
110°-120°	355.4	5.8
120°-130°	249.0	4.0
130°-140°	147.0	2.4
140°-150°	67.7	1.1
150°-160°	20.3	0.3
160°-170°	1.9	0.0
170°-180°	0.0	0.0
0°-30°	585.7	9.5
0°-40°	1039.8	16.9
0°-60°	2269.2	36.9
0°-90°	4316.6	70.2
90°-120°	1348.6	21.9
90°-150°	1812.4	29.5
90°-180°	1835.0	29.8
0°-180°	6151.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	675	675	675	675	675	
5°	706	679	645	682	706	68
15°	793	645	664	647	793	227
25°	911	585	733	585	911	423
35°	1024	499	799	498	1024	644
45°	1132	399	868	398	1132	878
55°	1231	291	943	289	1231	1103
65°	1286	183	985	181	1286	1273
75°	1265	85	932	84	1265	1333
85°	1157	13	790	15	1157	958
90°	1089	0	726	0	1089	597
95°	1031	0	673	0	1031	831
105°	921	0	584	0	921	974
115°	798	0	490	0	798	792
125°	650	0	386	1	650	583
135°	481	0	274	1	481	373
145°	304	0	169	1	304	193
155°	146	0	73	1	146	70
165°	23	0	4	1	23	9
175°	0	0	0	1	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
2.5°	685.0	684.9	684.8	684.7	684.6	684.4	684.3	684.2	684.1	684.0	684.2
5°	706.0	705.2	704.4	703.7	702.9	702.1	701.3	700.6	699.8	699.0	698.8
7.5°	723.0	722.0	721.0	720.0	719.0	718.0	717.0	716.0	715.0	714.0	713.1
10°	742.0	740.6	739.1	737.7	736.2	734.8	733.3	731.9	730.4	729.0	727.6
12.5°	765.0	763.1	761.2	759.3	757.4	755.6	753.7	751.8	749.9	748.0	745.6
15°	793.0	790.6	788.1	785.7	783.2	780.8	778.3	775.9	773.4	771.0	767.0
17.5°	822.0	819.3	816.7	814.0	811.3	808.7	806.0	803.3	800.7	798.0	792.0
20°	853.0	849.6	846.1	842.7	839.2	835.8	832.3	828.9	825.4	822.0	814.7
22.5°	883.0	879.0	875.0	871.0	867.0	863.0	859.0	855.0	851.0	847.0	838.4
25°	911.0	906.7	902.3	898.0	893.7	889.3	885.0	880.7	876.3	872.0	862.1
27.5°	940.0	935.1	930.2	925.3	920.4	915.6	910.7	905.8	900.9	896.0	884.9
30°	968.0	962.7	957.3	952.0	946.7	941.3	936.0	930.7	925.3	920.0	907.6
32.5°	996.0	990.1	984.2	978.3	972.4	966.6	960.7	954.8	948.9	943.0	929.1
35°	1024.0	1017.6	1011.1	1004.7	998.2	991.8	985.3	978.9	972.4	966.0	950.8
37.5°	1051.0	1044.0	1037.0	1030.0	1023.0	1016.0	1009.0	1002.0	995.0	988.0	971.6
40°	1077.9	1070.4	1062.8	1055.3	1047.7	1040.2	1032.6	1025.1	1017.5	1010.0	992.2
42.5°	1104.9	1096.8	1088.7	1080.6	1072.5	1064.4	1056.3	1048.2	1040.1	1032.0	1012.7
45°	1131.9	1123.1	1114.4	1105.6	1096.8	1088.1	1079.3	1070.5	1061.8	1053.0	1032.1
47.5°	1158.9	1149.3	1139.8	1130.2	1120.7	1111.1	1101.6	1092.0	1082.5	1072.9	1050.6
50°	1183.9	1173.9	1163.9	1153.9	1143.9	1133.9	1123.9	1113.9	1103.9	1093.9	1069.7
52.5°	1208.9	1198.1	1187.3	1176.6	1165.8	1155.0	1144.2	1133.5	1122.7	1111.9	1086.0
55°	1230.9	1219.8	1208.7	1197.6	1186.5	1175.3	1164.2	1153.1	1142.0	1130.9	1103.1
57.5°	1250.9	1239.3	1227.8	1216.2	1204.7	1193.1	1181.6	1170.0	1158.5	1146.9	1117.6
60°	1266.9	1255.0	1243.1	1231.2	1219.3	1207.5	1195.6	1183.7	1171.8	1159.9	1129.0
62.5°	1278.9	1266.7	1254.5	1242.2	1230.0	1217.8	1205.6	1193.3	1181.1	1168.9	1136.8
65°	1285.9	1273.6	1261.2	1248.9	1236.6	1224.2	1211.9	1199.6	1187.2	1174.9	1141.8
67.5°	1288.9	1276.5	1264.0	1251.6	1239.1	1226.7	1214.2	1201.8	1189.3	1176.9	1143.0
70°	1286.9	1274.5	1262.0	1249.6	1237.1	1224.7	1212.2	1199.8	1187.3	1174.9	1140.5
72.5°	1278.9	1266.3	1253.8	1241.2	1228.7	1216.1	1203.6	1191.0	1178.5	1165.9	1131.2
75°	1264.9	1252.7	1240.5	1228.2	1216.0	1203.8	1191.6	1179.3	1167.1	1154.9	1119.9
77.5°	1243.9	1231.8	1219.7	1207.6	1195.5	1183.3	1171.2	1159.1	1147.0	1134.9	1100.1
80°	1218.9	1206.7	1194.5	1182.2	1170.0	1157.8	1145.6	1133.3	1121.1	1108.9	1074.6
82.5°	1188.9	1177.0	1165.1	1153.2	1141.3	1129.5	1117.6	1105.7	1093.8	1081.9	1047.9
85°	1156.9	1145.1	1133.4	1121.6	1109.8	1098.1	1086.3	1074.5	1062.8	1051.0	1017.7
87.5°	1122.9	1111.4	1099.8	1088.3	1076.7	1065.2	1053.6	1042.1	1030.5	1019.0	986.3
90°	1088.9	1077.6	1066.3	1054.9	1043.6	1032.3	1021.0	1009.6	998.3	987.0	955.2
92.5°	1058.9	1047.9	1036.9	1025.9	1014.9	1004.0	993.0	982.0	971.0	960.0	929.1
95°	1031.0	1020.3	1009.7	999.0	988.3	977.7	967.0	956.3	945.7	935.0	904.9
97.5°	1003.0	992.6	982.1	971.7	961.2	950.8	940.3	929.9	919.4	909.0	879.7
100°	975.0	964.8	954.6	944.3	934.1	923.9	913.7	903.4	893.2	883.0	854.4
102.5°	948.0	938.0	928.0	918.0	908.0	898.0	888.0	878.0	868.0	858.0	829.9
105°	921.0	911.2	901.4	891.7	881.9	872.1	862.3	852.6	842.8	833.0	805.4
107.5°	893.0	883.3	873.7	864.0	854.3	844.7	835.0	825.3	815.7	806.0	779.1
110°	864.0	854.4	844.9	835.3	825.8	816.2	806.7	797.1	787.6	778.0	751.9



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	831.0	821.7	812.3	803.0	793.7	784.3	775.0	765.7	756.3	747.0	721.8
115°	798.0	788.9	779.8	770.7	761.6	752.4	743.3	734.2	725.1	716.0	691.7
117.5°	763.0	754.2	745.4	736.7	727.9	719.1	710.3	701.6	692.8	684.0	660.3
120°	727.0	718.4	709.9	701.3	692.8	684.2	675.7	667.1	658.6	650.0	627.2
122.5°	689.0	680.8	672.6	664.3	656.1	647.9	639.7	631.4	623.2	615.0	593.1
125°	650.0	642.1	634.2	626.3	618.4	610.6	602.7	594.8	586.9	579.0	557.9
127.5°	609.0	601.6	594.1	586.7	579.2	571.8	564.3	556.9	549.4	542.0	521.7
130°	567.0	560.0	553.0	546.0	539.0	532.0	525.0	518.0	511.0	504.0	484.4
132.5°	525.0	518.3	511.7	505.0	498.3	491.7	485.0	478.3	471.7	465.0	446.4
135°	481.0	474.7	468.3	462.0	455.7	449.3	443.0	436.7	430.3	424.0	406.7
137.5°	435.0	429.1	423.2	417.3	411.4	405.6	399.7	393.8	387.9	382.0	366.0
140°	389.0	383.7	378.3	373.0	367.7	362.3	357.0	351.7	346.3	341.0	326.3
142.5°	345.0	340.3	335.7	331.0	326.3	321.7	317.0	312.3	307.7	303.0	289.2
145°	304.0	299.8	295.6	291.3	287.1	282.9	278.7	274.4	270.2	266.0	253.3
147.5°	264.0	259.9	255.8	251.7	247.6	243.4	239.3	235.2	231.1	227.0	215.9
150°	222.0	218.7	215.3	212.0	208.7	205.3	202.0	198.7	195.3	192.0	181.9
152.5°	183.0	180.1	177.2	174.3	171.4	168.6	165.7	162.8	159.9	157.0	148.2
155°	146.0	143.4	140.9	138.3	135.8	133.2	130.7	128.1	125.6	123.0	115.4
157.5°	110.0	107.9	105.8	103.7	101.6	99.4	97.3	95.2	93.1	91.0	84.8
160°	76.0	74.3	72.7	71.0	69.3	67.7	66.0	64.3	62.7	61.0	56.4
162.5°	46.0	44.9	43.8	42.7	41.6	40.4	39.3	38.2	37.1	36.0	33.0
165°	23.0	22.3	21.7	21.0	20.3	19.7	19.0	18.3	17.7	17.0	15.4
167.5°	7.0	6.8	6.6	6.3	6.1	5.9	5.7	5.4	5.2	5.0	4.4
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
2.5°	684.4	684.7	684.9	685.1	685.3	685.6	685.8	686.0	684.9	683.8	682.7
5°	698.6	698.3	698.1	697.9	697.7	697.4	697.2	697.0	695.1	693.2	691.3
7.5°	712.2	711.3	710.4	709.6	708.7	707.8	706.9	706.0	703.3	700.7	698.0
10°	726.1	724.7	723.2	721.8	720.3	718.9	717.4	716.0	712.2	708.4	704.7
12.5°	743.1	740.7	738.2	735.8	733.3	730.9	728.4	726.0	721.0	716.0	711.0
15°	763.0	759.0	755.0	751.0	747.0	743.0	739.0	735.0	728.7	722.3	716.0
17.5°	786.0	780.0	774.0	768.0	762.0	756.0	750.0	744.0	736.2	728.4	720.7
20°	807.3	800.0	792.7	785.3	778.0	770.7	763.3	756.0	746.2	736.4	726.7
22.5°	829.9	821.3	812.8	804.2	795.7	787.1	778.6	770.0	757.9	745.8	733.7
25°	852.2	842.3	832.4	822.6	812.7	802.8	792.9	783.0	768.7	754.3	740.0
27.5°	873.8	862.7	851.6	840.4	829.3	818.2	807.1	796.0	779.3	762.7	746.0
30°	895.1	882.7	870.2	857.8	845.3	832.9	820.4	808.0	789.0	770.0	751.0
32.5°	915.2	901.3	887.4	873.6	859.7	845.8	831.9	818.0	797.1	776.2	755.3
35°	935.6	920.3	905.1	889.9	874.7	859.4	844.2	829.0	806.0	783.0	760.0
37.5°	955.1	938.7	922.2	905.8	889.3	872.9	856.4	840.0	815.1	790.2	765.3
40°	974.4	956.7	938.9	921.1	903.3	885.6	867.8	850.0	823.3	796.7	770.0
42.5°	993.3	974.0	954.7	935.3	916.0	896.7	877.3	858.0	829.6	801.1	772.7
45°	1011.2	990.3	969.4	948.6	927.7	906.8	885.9	865.0	834.9	804.8	774.7
47.5°	1028.3	1005.9	983.6	961.3	939.0	916.6	894.3	872.0	840.1	808.2	776.3
50°	1045.5	1021.3	997.1	972.8	948.6	924.4	900.2	876.0	842.6	809.1	775.7
52.5°	1060.1	1034.3	1008.4	982.5	956.6	930.8	904.9	879.0	844.0	809.0	774.0
55°	1075.4	1047.6	1019.8	992.1	964.3	936.5	908.8	881.0	844.6	808.1	771.7
57.5°	1088.3	1058.9	1029.6	1000.3	971.0	941.6	912.3	883.0	844.9	806.8	768.7
60°	1098.1	1067.3	1036.4	1005.5	974.6	943.8	912.9	882.0	842.7	803.3	764.0
62.5°	1104.7	1072.6	1040.5	1008.4	976.3	944.2	912.1	880.0	839.3	798.7	758.0
65°	1108.7	1075.6	1042.5	1009.4	976.3	943.2	910.1	877.0	835.1	793.2	751.3
67.5°	1109.1	1075.3	1041.4	1007.5	973.6	939.8	905.9	872.0	828.9	785.8	742.7
70°	1106.0	1071.6	1037.2	1002.7	968.3	933.9	899.4	865.0	820.8	776.6	732.3
72.5°	1096.6	1061.9	1027.3	992.6	958.0	923.3	888.7	854.0	809.1	764.2	719.3
75°	1084.9	1049.9	1014.9	980.0	945.0	910.0	875.0	840.0	794.6	749.1	703.7
77.5°	1065.4	1030.6	995.8	961.1	926.3	891.5	856.8	822.0	776.4	730.9	685.3
80°	1040.3	1005.9	971.6	937.3	903.0	868.6	834.3	800.0	754.8	709.6	664.3
82.5°	1013.9	979.9	945.9	912.0	878.0	844.0	810.0	776.0	731.2	686.4	641.7
85°	984.3	951.0	917.7	884.3	851.0	817.7	784.3	751.0	706.9	662.8	618.7
87.5°	953.7	921.0	888.3	855.7	823.0	790.3	757.7	725.0	681.8	638.6	595.3
90°	923.4	891.7	859.9	828.1	796.3	764.6	732.8	701.0	658.6	616.1	573.7
92.5°	898.2	867.3	836.4	805.6	774.7	743.8	712.9	682.0	640.4	598.9	557.3
95°	874.8	844.7	814.6	784.4	754.3	724.2	694.1	664.0	623.1	582.2	541.3
97.5°	850.3	821.0	791.7	762.3	733.0	703.7	674.3	645.0	604.9	564.8	524.7
100°	825.9	797.3	768.8	740.2	711.7	683.1	654.6	626.0	586.7	547.3	508.0
102.5°	801.8	773.7	745.6	717.4	689.3	661.2	633.1	605.0	566.3	527.7	489.0
105°	777.9	750.3	722.8	695.2	667.7	640.1	612.6	585.0	546.9	508.8	470.7
107.5°	752.2	725.3	698.4	671.6	644.7	617.8	590.9	564.0	526.7	489.3	452.0
110°	725.8	699.7	673.6	647.4	621.3	595.2	569.1	543.0	506.4	469.9	433.3



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	696.6	671.3	646.1	620.9	595.7	570.4	545.2	520.0	484.3	448.7	413.0
115°	667.3	643.0	618.7	594.3	570.0	545.7	521.3	497.0	462.2	427.4	392.7
117.5°	636.7	613.0	589.3	565.7	542.0	518.3	494.7	471.0	437.3	403.7	370.0
120°	604.4	581.7	558.9	536.1	513.3	490.6	467.8	445.0	412.3	379.7	347.0
122.5°	571.2	549.3	527.4	505.6	483.7	461.8	439.9	418.0	386.7	355.3	324.0
125°	536.8	515.7	494.6	473.4	452.3	431.2	410.1	389.0	359.3	329.7	300.0
127.5°	501.3	481.0	460.7	440.3	420.0	399.7	379.3	359.0	331.0	303.0	275.0
130°	464.9	445.3	425.8	406.2	386.7	367.1	347.6	328.0	301.9	275.8	249.7
132.5°	427.9	409.3	390.8	372.2	353.7	335.1	316.6	298.0	273.7	249.3	225.0
135°	389.3	372.0	354.7	337.3	320.0	302.7	285.3	268.0	245.6	223.1	200.7
137.5°	350.0	334.0	318.0	302.0	286.0	270.0	254.0	238.0	217.4	196.9	176.3
140°	311.7	297.0	282.3	267.7	253.0	238.3	223.7	209.0	190.4	171.9	153.3
142.5°	275.4	261.7	247.9	234.1	220.3	206.6	192.8	179.0	162.6	146.1	129.7
145°	240.7	228.0	215.3	202.7	190.0	177.3	164.7	152.0	137.6	123.1	108.7
147.5°	204.8	193.7	182.6	171.4	160.3	149.2	138.1	127.0	114.4	101.9	89.3
150°	171.8	161.7	151.6	141.4	131.3	121.2	111.1	101.0	90.7	80.3	70.0
152.5°	139.4	130.7	121.9	113.1	104.3	95.6	86.8	78.0	69.8	61.6	53.3
155°	107.9	100.3	92.8	85.2	77.7	70.1	62.6	55.0	49.1	43.2	37.3
157.5°	78.6	72.3	66.1	59.9	53.7	47.4	41.2	35.0	31.1	27.2	23.3
160°	51.9	47.3	42.8	38.2	33.7	29.1	24.6	20.0	17.8	15.6	13.3
162.5°	30.0	27.0	24.0	21.0	18.0	15.0	12.0	9.0	8.0	7.0	6.0
165°	13.9	12.3	10.8	9.2	7.7	6.1	4.6	3.0	2.7	2.3	2.0
167.5°	3.9	3.3	2.8	2.2	1.7	1.1	0.6	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLELD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
2.5°	681.6	680.4	679.3	678.2	677.1	676.0	676.6	677.1	677.7	678.2	678.8
5°	689.4	687.6	685.7	683.8	681.9	680.0	679.9	679.8	679.7	679.6	679.4
7.5°	695.3	692.7	690.0	687.3	684.7	682.0	681.0	680.0	679.0	678.0	677.0
10°	700.9	697.1	693.3	689.6	685.8	682.0	680.3	678.7	677.0	675.3	673.7
12.5°	706.0	701.0	696.0	691.0	686.0	681.0	678.3	675.7	673.0	670.3	667.7
15°	709.7	703.3	697.0	690.7	684.3	678.0	674.3	670.7	667.0	663.3	659.7
17.5°	712.9	705.1	697.3	689.6	681.8	674.0	669.6	665.1	660.7	656.2	651.8
20°	716.9	707.1	697.3	687.6	677.8	668.0	662.4	656.9	651.3	645.8	640.2
22.5°	721.6	709.4	697.3	685.2	673.1	661.0	654.6	648.1	641.7	635.2	628.8
25°	725.7	711.3	697.0	682.7	668.3	654.0	646.3	638.7	631.0	623.3	615.7
27.5°	729.3	712.7	696.0	679.3	662.7	646.0	637.1	628.2	619.3	610.4	601.6
30°	732.0	713.0	694.0	675.0	656.0	637.0	626.7	616.3	606.0	595.7	585.3
32.5°	734.4	713.6	692.7	671.8	650.9	630.0	618.0	606.0	594.0	582.0	570.0
35°	737.0	714.0	691.0	668.0	645.0	622.0	608.3	594.7	581.0	567.3	553.7
37.5°	740.4	715.6	690.7	665.8	640.9	616.0	600.3	584.7	569.0	553.3	537.7
40°	743.3	716.7	690.0	663.3	636.7	610.0	592.2	574.4	556.7	538.9	521.1
42.5°	744.2	715.8	687.3	658.9	630.4	602.0	582.2	562.4	542.7	522.9	503.1
45°	744.6	714.4	684.3	654.2	624.1	594.0	572.3	550.7	529.0	507.3	485.7
47.5°	744.4	712.6	680.7	648.8	616.9	585.0	561.3	537.7	514.0	490.3	466.7
50°	742.2	708.8	675.3	641.9	608.4	575.0	549.4	523.9	498.3	472.8	447.2
52.5°	739.0	704.0	669.0	634.0	599.0	564.0	536.6	509.1	481.7	454.2	426.8
55°	735.2	698.8	662.3	625.9	589.4	553.0	523.9	494.8	465.7	436.6	407.4
57.5°	730.6	692.4	654.3	616.2	578.1	540.0	509.3	478.7	448.0	417.3	386.7
60°	724.7	685.3	646.0	606.7	567.3	528.0	495.4	462.9	430.3	397.8	365.2
62.5°	717.3	676.7	636.0	595.3	554.7	514.0	480.0	446.0	412.0	378.0	344.0
65°	709.4	667.6	625.7	583.8	541.9	500.0	464.8	429.6	394.3	359.1	323.9
67.5°	699.6	656.4	613.3	570.2	527.1	484.0	447.7	411.3	375.0	338.7	302.3
70°	688.1	643.9	599.7	555.4	511.2	467.0	429.8	392.6	355.3	318.1	280.9
72.5°	674.4	629.6	584.7	539.8	494.9	450.0	412.0	374.0	336.0	298.0	260.0
75°	658.2	612.8	567.3	521.9	476.4	431.0	392.6	354.1	315.7	277.2	238.8
77.5°	639.8	594.2	548.7	503.1	457.6	412.0	373.2	334.4	295.7	256.9	218.1
80°	619.1	573.9	528.7	483.4	438.2	393.0	354.2	315.4	276.7	237.9	199.1
82.5°	596.9	552.1	507.3	462.6	417.8	373.0	334.6	296.1	257.7	219.2	180.8
85°	574.6	530.4	486.3	442.2	398.1	354.0	316.1	278.2	240.3	202.4	164.6
87.5°	552.1	508.9	465.7	422.4	379.2	336.0	299.0	262.0	225.0	188.0	151.0
90°	531.2	488.8	446.3	403.9	361.4	319.0	283.6	248.1	212.7	177.2	141.8
92.5°	515.8	474.2	432.7	391.1	349.6	308.0	273.8	239.6	205.3	171.1	136.9
95°	500.4	459.6	418.7	377.8	336.9	296.0	263.1	230.2	197.3	164.4	131.6
97.5°	484.6	444.4	404.3	364.2	324.1	284.0	252.4	220.9	189.3	157.8	126.2
100°	468.7	429.3	390.0	350.7	311.3	272.0	241.8	211.6	181.3	151.1	120.9
102.5°	450.3	411.7	373.0	334.3	295.7	257.0	228.4	199.9	171.3	142.8	114.2
105°	432.6	394.4	356.3	318.2	280.1	242.0	215.1	188.2	161.3	134.4	107.6
107.5°	414.7	377.3	340.0	302.7	265.3	228.0	202.7	177.3	152.0	126.7	101.3
110°	396.8	360.2	323.7	287.1	250.6	214.0	190.2	166.4	142.7	118.9	95.1



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	377.3	341.7	306.0	270.3	234.7	199.0	176.9	154.8	132.7	110.6	88.4
115°	357.9	323.1	288.3	253.6	218.8	184.0	163.6	143.1	122.7	102.2	81.8
117.5°	336.3	302.7	269.0	235.3	201.7	168.0	149.3	130.7	112.0	93.3	74.7
120°	314.3	281.7	249.0	216.3	183.7	151.0	134.2	117.4	100.7	83.9	67.1
122.5°	292.7	261.3	230.0	198.7	167.3	136.0	120.9	105.8	90.7	75.6	60.4
125°	270.3	240.7	211.0	181.3	151.7	122.0	108.4	94.9	81.3	67.8	54.2
127.5°	247.0	219.0	191.0	163.0	135.0	107.0	95.1	83.2	71.3	59.4	47.6
130°	223.6	197.4	171.3	145.2	119.1	93.0	82.7	72.3	62.0	51.7	41.3
132.5°	200.7	176.3	152.0	127.7	103.3	79.0	70.2	61.4	52.7	43.9	35.1
135°	178.2	155.8	133.3	110.9	88.4	66.0	58.7	51.3	44.0	36.7	29.3
137.5°	155.8	135.2	114.7	94.1	73.6	53.0	47.1	41.2	35.3	29.4	23.6
140°	134.8	116.2	97.7	79.1	60.6	42.0	37.3	32.7	28.0	23.3	18.7
142.5°	113.2	96.8	80.3	63.9	47.4	31.0	27.6	24.1	20.7	17.2	13.8
145°	94.2	79.8	65.3	50.9	36.4	22.0	19.6	17.1	14.7	12.2	9.8
147.5°	76.8	64.2	51.7	39.1	26.6	14.0	12.4	10.9	9.3	7.8	6.2
150°	59.7	49.3	39.0	28.7	18.3	8.0	7.1	6.2	5.3	4.4	3.6
152.5°	45.1	36.9	28.7	20.4	12.2	4.0	3.6	3.1	2.7	2.2	1.8
155°	31.4	25.6	19.7	13.8	7.9	2.0	1.8	1.6	1.3	1.1	0.9
157.5°	19.4	15.6	11.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	11.1	8.9	6.7	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	5.0	4.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.7	1.3	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
2.5°	679.3	679.9	680.4	681.0	679.6	678.1	676.7	675.2	673.8	672.3	670.9
5°	679.3	679.2	679.1	679.0	676.9	674.8	672.7	670.6	668.4	666.3	664.2
7.5°	676.0	675.0	674.0	673.0	670.6	668.1	665.7	663.2	660.8	658.3	655.9
10°	672.0	670.3	668.7	667.0	664.1	661.2	658.3	655.4	652.6	649.7	646.8
12.5°	665.0	662.3	659.7	657.0	654.0	651.0	648.0	645.0	642.0	639.0	636.0
15°	656.0	652.3	648.7	645.0	642.0	639.0	636.0	633.0	630.0	627.0	624.0
17.5°	647.3	642.9	638.4	634.0	630.9	627.8	624.7	621.6	618.4	615.3	612.2
20°	634.7	629.1	623.6	618.0	615.3	612.7	610.0	607.3	604.7	602.0	599.3
22.5°	622.3	615.9	609.4	603.0	600.6	598.1	595.7	593.2	590.8	588.3	585.9
25°	608.0	600.3	592.7	585.0	583.2	581.4	579.7	577.9	576.1	574.3	572.6
27.5°	592.7	583.8	574.9	566.0	565.0	564.0	563.0	562.0	561.0	560.0	559.0
30°	575.0	564.7	554.3	544.0	544.1	544.2	544.3	544.4	544.6	544.7	544.8
32.5°	558.0	546.0	534.0	522.0	523.6	525.1	526.7	528.2	529.8	531.3	532.9
35°	540.0	526.3	512.7	499.0	502.1	505.2	508.3	511.4	514.6	517.7	520.8
37.5°	522.0	506.3	490.7	475.0	479.8	484.6	489.3	494.1	498.9	503.7	508.4
40°	503.3	485.6	467.8	450.0	456.3	462.7	469.0	475.3	481.7	488.0	494.3
42.5°	483.3	463.6	443.8	424.0	432.0	440.0	448.0	456.0	464.0	472.0	480.0
45°	464.0	442.3	420.7	399.0	408.4	417.9	427.3	436.8	446.2	455.7	465.1
47.5°	443.0	419.3	395.7	372.0	383.1	394.2	405.3	416.4	427.6	438.7	449.8
50°	421.7	396.1	370.6	345.0	357.8	370.6	383.3	396.1	408.9	421.7	434.4
52.5°	399.3	371.9	344.4	317.0	331.3	345.7	360.0	374.3	388.7	403.0	417.3
55°	378.3	349.2	320.1	291.0	306.8	322.6	338.3	354.1	369.9	385.7	401.4
57.5°	356.0	325.3	294.7	264.0	281.2	298.4	315.7	332.9	350.1	367.3	384.6
60°	332.7	300.1	267.6	235.0	253.9	272.8	291.7	310.6	329.4	348.3	367.2
62.5°	310.0	276.0	242.0	208.0	228.2	248.4	268.7	288.9	309.1	329.3	349.6
65°	288.7	253.4	218.2	183.0	204.3	225.7	247.0	268.3	289.7	311.0	332.3
67.5°	266.0	229.7	193.3	157.0	179.2	201.4	223.7	245.9	268.1	290.3	312.6
70°	243.7	206.4	169.2	132.0	155.1	178.2	201.3	224.4	247.6	270.7	293.8
72.5°	222.0	184.0	146.0	108.0	131.7	155.3	179.0	202.7	226.3	250.0	273.7
75°	200.3	161.9	123.4	85.0	109.1	133.2	157.3	181.4	205.6	229.7	253.8
77.5°	179.3	140.6	101.8	63.0	87.4	111.9	136.3	160.8	185.2	209.7	234.1
80°	160.3	121.6	82.8	44.0	68.4	92.9	117.3	141.8	166.2	190.7	215.1
82.5°	142.3	103.9	65.4	27.0	51.0	75.0	99.0	123.0	147.0	171.0	195.0
85°	126.7	88.8	50.9	13.0	36.6	60.1	83.7	107.2	130.8	154.3	177.9
87.5°	114.0	77.0	40.0	3.0	26.0	49.0	72.0	95.0	118.0	141.0	164.0
90°	106.3	70.9	35.4	0.0	22.0	44.0	66.0	88.0	110.0	132.0	154.0
92.5°	102.7	68.4	34.2	0.0	21.0	42.0	63.0	84.0	105.0	126.0	147.0
95°	98.7	65.8	32.9	0.0	20.0	40.0	60.0	80.0	100.0	120.0	140.0
97.5°	94.7	63.1	31.6	0.0	18.9	37.8	56.7	75.6	94.4	113.3	132.2
100°	90.7	60.4	30.2	0.0	17.8	35.6	53.3	71.1	88.9	106.7	124.4
102.5°	85.7	57.1	28.6	0.0	16.7	33.3	50.0	66.7	83.3	100.0	116.7
105°	80.7	53.8	26.9	0.0	15.6	31.1	46.7	62.2	77.8	93.3	108.9
107.5°	76.0	50.7	25.3	0.0	14.4	28.9	43.3	57.8	72.2	86.7	101.1
110°	71.3	47.6	23.8	0.0	13.2	26.4	39.7	52.9	66.1	79.3	92.6



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	66.3	44.2	22.1	0.0	12.1	24.2	36.3	48.4	60.6	72.7	84.8
115°	61.3	40.9	20.4	0.0	10.9	21.8	32.7	43.6	54.4	65.3	76.2
117.5°	56.0	37.3	18.7	0.0	9.8	19.6	29.3	39.1	48.9	58.7	68.4
120°	50.3	33.6	16.8	0.0	8.7	17.3	26.0	34.7	43.3	52.0	60.7
122.5°	45.3	30.2	15.1	0.0	7.6	15.1	22.7	30.2	37.8	45.3	52.9
125°	40.7	27.1	13.6	0.0	6.4	12.9	19.3	25.8	32.2	38.7	45.1
127.5°	35.7	23.8	11.9	0.0	5.2	10.4	15.7	20.9	26.1	31.3	36.6
130°	31.0	20.7	10.3	0.0	4.1	8.2	12.3	16.4	20.6	24.7	28.8
132.5°	26.3	17.6	8.8	0.0	3.1	6.2	9.3	12.4	15.6	18.7	21.8
135°	22.0	14.7	7.3	0.0	2.2	4.4	6.7	8.9	11.1	13.3	15.6
137.5°	17.7	11.8	5.9	0.0	1.6	3.1	4.7	6.2	7.8	9.3	10.9
140°	14.0	9.3	4.7	0.0	0.9	1.8	2.7	3.6	4.4	5.3	6.2
142.5°	10.3	6.9	3.4	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1
145°	7.3	4.9	2.4	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6
147.5°	4.7	3.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.7	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
2.5°	669.4	668.0	667.3	666.7	666.0	665.3	664.7	664.0	663.3	662.7	662.0
5°	662.1	660.0	659.3	658.7	658.0	657.3	656.7	656.0	655.3	654.7	654.0
7.5°	653.4	651.0	650.1	649.2	648.3	647.4	646.6	645.7	644.8	643.9	643.0
10°	643.9	641.0	640.4	639.9	639.3	638.8	638.2	637.7	637.1	636.6	636.0
12.5°	633.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
15°	621.0	618.0	619.0	620.0	621.0	622.0	623.0	624.0	625.0	626.0	627.0
17.5°	609.1	606.0	608.4	610.9	613.3	615.8	618.2	620.7	623.1	625.6	628.0
20°	596.7	594.0	598.4	602.9	607.3	611.8	616.2	620.7	625.1	629.6	634.0
22.5°	583.4	581.0	587.7	594.3	601.0	607.7	614.3	621.0	627.7	634.3	641.0
25°	570.8	569.0	577.8	586.6	595.3	604.1	612.9	621.7	630.4	639.2	648.0
27.5°	558.0	557.0	567.7	578.3	589.0	599.7	610.3	621.0	631.7	642.3	653.0
30°	544.9	545.0	557.4	569.9	582.3	594.8	607.2	619.7	632.1	644.6	657.0
32.5°	534.4	536.0	549.8	563.6	577.3	591.1	604.9	618.7	632.4	646.2	660.0
35°	523.9	527.0	542.1	557.2	572.3	587.4	602.6	617.7	632.8	647.9	663.0
37.5°	513.2	518.0	534.3	550.7	567.0	583.3	599.7	616.0	632.3	648.7	665.0
40°	500.7	507.0	524.8	542.6	560.3	578.1	595.9	613.7	631.4	649.2	667.0
42.5°	488.0	496.0	515.1	534.2	553.3	572.4	591.6	610.7	629.8	648.9	668.0
45°	474.6	484.0	504.4	524.9	545.3	565.8	586.2	606.7	627.1	647.6	668.0
47.5°	460.9	472.0	493.8	515.6	537.3	559.1	580.9	602.7	624.4	646.2	668.0
50°	447.2	460.0	483.0	506.0	529.0	552.0	575.0	598.0	621.0	644.0	667.0
52.5°	431.7	446.0	470.3	494.7	519.0	543.3	567.7	592.0	616.3	640.7	665.0
55°	417.2	433.0	458.7	484.3	510.0	535.7	561.3	587.0	612.7	638.3	664.0
57.5°	401.8	419.0	446.0	473.0	500.0	527.0	554.0	581.0	608.0	635.0	662.0
60°	386.1	405.0	433.3	461.7	490.0	518.3	546.7	575.0	603.3	631.7	660.0
62.5°	369.8	390.0	419.7	449.3	479.0	508.7	538.3	568.0	597.7	627.3	657.0
65°	353.7	375.0	405.9	436.8	467.7	498.6	529.4	560.3	591.2	622.1	653.0
67.5°	334.8	357.0	389.3	421.7	454.0	486.3	518.7	551.0	583.3	615.7	648.0
70°	316.9	340.0	373.2	406.4	439.7	472.9	506.1	539.3	572.6	605.8	639.0
72.5°	297.3	321.0	354.7	388.3	422.0	455.7	489.3	523.0	556.7	590.3	624.0
75°	277.9	302.0	335.6	369.1	402.7	436.2	469.8	503.3	536.9	570.4	604.0
77.5°	258.6	283.0	316.1	349.2	382.3	415.4	448.6	481.7	514.8	547.9	581.0
80°	239.6	264.0	296.3	328.7	361.0	393.3	425.7	458.0	490.3	522.7	555.0
82.5°	219.0	243.0	274.6	306.1	337.7	369.2	400.8	432.3	463.9	495.4	527.0
85°	201.4	225.0	255.7	286.3	317.0	347.7	378.3	409.0	439.7	470.3	501.0
87.5°	187.0	210.0	239.9	269.8	299.7	329.6	359.4	389.3	419.2	449.1	479.0
90°	176.0	198.0	226.9	255.8	284.7	313.6	342.4	371.3	400.2	429.1	458.0
92.5°	168.0	189.0	217.0	245.0	273.0	301.0	329.0	357.0	385.0	413.0	441.0
95°	160.0	180.0	207.2	234.4	261.7	288.9	316.1	343.3	370.6	397.8	425.0
97.5°	151.1	170.0	196.6	223.1	249.7	276.2	302.8	329.3	355.9	382.4	409.0
100°	142.2	160.0	186.0	212.0	238.0	264.0	290.0	316.0	342.0	368.0	394.0
102.5°	133.3	150.0	175.3	200.7	226.0	251.3	276.7	302.0	327.3	352.7	378.0
105°	124.4	140.0	164.7	189.3	214.0	238.7	263.3	288.0	312.7	337.3	362.0
107.5°	115.6	130.0	153.9	177.8	201.7	225.6	249.4	273.3	297.2	321.1	345.0
110°	105.8	119.0	142.2	165.4	188.7	211.9	235.1	258.3	281.6	304.8	328.0



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	96.9	109.0	131.3	153.7	176.0	198.3	220.7	243.0	265.3	287.7	310.0
115°	87.1	98.0	119.7	141.3	163.0	184.7	206.3	228.0	249.7	271.3	293.0
117.5°	78.2	88.0	108.7	129.3	150.0	170.7	191.3	212.0	232.7	253.3	274.0
120°	69.3	78.0	97.9	117.8	137.7	157.6	177.4	197.3	217.2	237.1	257.0
122.5°	60.4	68.0	86.6	105.1	123.7	142.2	160.8	179.3	197.9	216.4	235.0
125°	51.6	58.0	75.4	92.9	110.3	127.8	145.2	162.7	180.1	197.6	215.0
127.5°	41.8	47.0	63.4	79.9	96.3	112.8	129.2	145.7	162.1	178.6	195.0
130°	32.9	37.0	51.9	66.8	81.7	96.6	111.4	126.3	141.2	156.1	171.0
132.5°	24.9	28.0	41.4	54.9	68.3	81.8	95.2	108.7	122.1	135.6	149.0
135°	17.8	20.0	31.9	43.8	55.7	67.6	79.4	91.3	103.2	115.1	127.0
137.5°	12.4	14.0	24.3	34.7	45.0	55.3	65.7	76.0	86.3	96.7	107.0
140°	7.1	8.0	17.0	26.0	35.0	44.0	53.0	62.0	71.0	80.0	89.0
142.5°	3.6	4.0	11.6	19.1	26.7	34.2	41.8	49.3	56.9	64.4	72.0
145°	1.8	2.0	8.0	14.0	20.0	26.0	32.0	38.0	44.0	50.0	56.0
147.5°	0.0	0.0	4.8	9.6	14.3	19.1	23.9	28.7	33.4	38.2	43.0
150°	0.0	0.0	3.3	6.7	10.0	13.3	16.7	20.0	23.3	26.7	30.0
152.5°	0.0	0.0	2.1	4.2	6.3	8.4	10.6	12.7	14.8	16.9	19.0
155°	0.0	0.0	1.1	2.2	3.3	4.4	5.6	6.7	7.8	8.9	10.0
157.5°	0.0	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1	3.6	4.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
2.5°	661.6	661.1	660.7	660.2	659.8	659.3	658.9	658.4	658.0	657.4	656.9
5°	653.2	652.4	651.7	650.9	650.1	649.3	648.6	647.8	647.0	646.8	646.6
7.5°	642.7	642.3	642.0	641.7	641.3	641.0	640.7	640.3	640.0	639.9	639.8
10°	636.2	636.4	636.7	636.9	637.1	637.3	637.6	637.8	638.0	638.0	638.0
12.5°	631.2	632.4	633.7	634.9	636.1	637.3	638.6	639.8	641.0	641.6	642.1
15°	629.9	632.8	635.7	638.6	641.4	644.3	647.2	650.1	653.0	654.2	655.4
17.5°	632.6	637.1	641.7	646.2	650.8	655.3	659.9	664.4	669.0	670.4	671.9
20°	639.6	645.1	650.7	656.2	661.8	667.3	672.9	678.4	684.0	685.8	687.6
22.5°	647.2	653.4	659.7	665.9	672.1	678.3	684.6	690.8	697.0	699.2	701.4
25°	655.0	662.0	669.0	676.0	683.0	690.0	697.0	704.0	711.0	713.4	715.9
27.5°	660.8	668.6	676.3	684.1	691.9	699.7	707.4	715.2	723.0	725.9	728.8
30°	665.7	674.3	683.0	691.7	700.3	709.0	717.7	726.3	735.0	738.4	741.9
32.5°	669.8	679.6	689.3	699.1	708.9	718.7	728.4	738.2	748.0	751.8	755.6
35°	673.8	684.6	695.3	706.1	716.9	727.7	738.4	749.2	760.0	764.3	768.7
37.5°	676.7	688.3	700.0	711.7	723.3	735.0	746.7	758.3	770.0	775.0	780.0
40°	679.8	692.6	705.3	718.1	730.9	743.7	756.4	769.2	782.0	787.6	793.1
42.5°	682.0	696.0	710.0	724.0	738.0	752.0	766.0	780.0	794.0	800.2	806.4
45°	683.4	698.9	714.3	729.8	745.2	760.7	776.1	791.6	807.0	813.8	820.6
47.5°	684.8	701.6	718.3	735.1	751.9	768.7	785.4	802.2	819.0	826.4	833.9
50°	685.3	703.7	722.0	740.3	758.7	777.0	795.3	813.7	832.0	840.2	848.4
52.5°	685.0	705.0	725.0	745.0	765.0	785.0	805.0	825.0	845.0	854.0	863.0
55°	685.4	706.9	728.3	749.8	771.2	792.7	814.1	835.6	857.0	866.6	876.1
57.5°	685.1	708.2	731.3	754.4	777.6	800.7	823.8	846.9	870.0	879.9	889.8
60°	684.4	708.9	733.3	757.8	782.2	806.7	831.1	855.6	880.0	890.1	900.2
62.5°	682.6	708.1	733.7	759.2	784.8	810.3	835.9	861.4	887.0	897.3	907.7
65°	679.4	705.9	732.3	758.8	785.2	811.7	838.1	864.6	891.0	901.4	911.9
67.5°	674.9	701.8	728.7	755.6	782.4	809.3	836.2	863.1	890.0	900.4	910.9
70°	666.1	693.2	720.3	747.4	774.6	801.7	828.8	855.9	883.0	893.2	903.4
72.5°	651.0	678.0	705.0	732.0	759.0	786.0	813.0	840.0	867.0	877.1	887.2
75°	630.7	657.3	684.0	710.7	737.3	764.0	790.7	817.3	844.0	853.8	863.6
77.5°	607.0	633.0	659.0	685.0	711.0	737.0	763.0	789.0	815.0	824.4	833.9
80°	580.1	605.2	630.3	655.4	680.6	705.7	730.8	755.9	781.0	790.3	799.7
82.5°	551.2	575.4	599.7	623.9	648.1	672.3	696.6	720.8	745.0	754.1	763.2
85°	524.3	547.7	571.0	594.3	617.7	641.0	664.3	687.7	711.0	719.8	728.6
87.5°	501.1	523.2	545.3	567.4	589.6	611.7	633.8	655.9	678.0	686.8	695.6
90°	479.4	500.9	522.3	543.8	565.2	586.7	608.1	629.6	651.0	659.3	667.7
92.5°	461.7	482.3	503.0	523.7	544.3	565.0	585.7	606.3	627.0	634.9	642.8
95°	444.9	464.8	484.7	504.6	524.4	544.3	564.2	584.1	604.0	611.7	619.3
97.5°	428.3	447.7	467.0	486.3	505.7	525.0	544.3	563.7	583.0	590.3	597.7
100°	412.8	431.6	450.3	469.1	487.9	506.7	525.4	544.2	563.0	570.1	577.2
102.5°	396.3	414.7	433.0	451.3	469.7	488.0	506.3	524.7	543.0	549.9	556.8
105°	379.9	397.8	415.7	433.6	451.4	469.3	487.2	505.1	523.0	529.8	536.6
107.5°	362.4	379.9	397.3	414.8	432.2	449.7	467.1	484.6	502.0	508.7	515.3
110°	344.9	361.8	378.7	395.6	412.4	429.3	446.2	463.1	480.0	486.6	493.1



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	326.3	342.7	359.0	375.3	391.7	408.0	424.3	440.7	457.0	463.3	469.7
115°	308.7	324.3	340.0	355.7	371.3	387.0	402.7	418.3	434.0	440.2	446.4
117.5°	289.2	304.4	319.7	334.9	350.1	365.3	380.6	395.8	411.0	417.0	423.0
120°	271.6	286.1	300.7	315.2	329.8	344.3	358.9	373.4	388.0	393.4	398.9
122.5°	249.2	263.4	277.7	291.9	306.1	320.3	334.6	348.8	363.0	368.4	373.9
125°	228.8	242.6	256.3	270.1	283.9	297.7	311.4	325.2	339.0	344.2	349.4
127.5°	208.1	221.2	234.3	247.4	260.6	273.7	286.8	299.9	313.0	318.1	323.2
130°	184.0	197.0	210.0	223.0	236.0	249.0	262.0	275.0	288.0	292.9	297.8
132.5°	161.6	174.1	186.7	199.2	211.8	224.3	236.9	249.4	262.0	266.6	271.1
135°	138.9	150.8	162.7	174.6	186.4	198.3	210.2	222.1	234.0	238.4	242.9
137.5°	118.1	129.2	140.3	151.4	162.6	173.7	184.8	195.9	207.0	211.4	215.9
140°	99.0	109.0	119.0	129.0	139.0	149.0	159.0	169.0	179.0	183.4	187.9
142.5°	80.8	89.6	98.3	107.1	115.9	124.7	133.4	142.2	151.0	155.6	160.1
145°	63.7	71.3	79.0	86.7	94.3	102.0	109.7	117.3	125.0	129.9	134.8
147.5°	49.4	55.9	62.3	68.8	75.2	81.7	88.1	94.6	101.0	105.8	110.6
150°	35.3	40.7	46.0	51.3	56.7	62.0	67.3	72.7	78.0	82.6	87.1
152.5°	23.3	27.7	32.0	36.3	40.7	45.0	49.3	53.7	58.0	62.2	66.4
155°	13.3	16.7	20.0	23.3	26.7	30.0	33.3	36.7	40.0	43.7	47.3
157.5°	6.3	8.7	11.0	13.3	15.7	18.0	20.3	22.7	25.0	28.0	31.0
160°	1.3	2.7	4.0	5.3	6.7	8.0	9.3	10.7	12.0	14.2	16.4
162.5°	0.3	0.7	1.0	1.3	1.7	2.0	2.3	2.7	3.0	4.3	5.7
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
2.5°	656.3	655.8	655.2	654.7	654.1	653.6	653.0	653.4	653.9	654.3	654.8
5°	646.3	646.1	645.9	645.7	645.4	645.2	645.0	645.1	645.2	645.3	645.4
7.5°	639.7	639.6	639.4	639.3	639.2	639.1	639.0	639.0	639.0	639.0	639.0
10°	638.0	638.0	638.0	638.0	638.0	638.0	638.0	637.7	637.3	637.0	636.7
12.5°	642.7	643.2	643.8	644.3	644.9	645.4	646.0	645.1	644.2	643.3	642.4
15°	656.7	657.9	659.1	660.3	661.6	662.8	664.0	662.7	661.3	660.0	658.7
17.5°	673.3	674.8	676.2	677.7	679.1	680.6	682.0	680.2	678.4	676.7	674.9
20°	689.3	691.1	692.9	694.7	696.4	698.2	700.0	697.9	695.8	693.7	691.6
22.5°	703.7	705.9	708.1	710.3	712.6	714.8	717.0	714.3	711.7	709.0	706.3
25°	718.3	720.8	723.2	725.7	728.1	730.6	733.0	730.1	727.2	724.3	721.4
27.5°	731.7	734.6	737.4	740.3	743.2	746.1	749.0	745.8	742.6	739.3	736.1
30°	745.3	748.8	752.2	755.7	759.1	762.6	766.0	762.2	758.4	754.7	750.9
32.5°	759.3	763.1	766.9	770.7	774.4	778.2	782.0	777.9	773.8	769.7	765.6
35°	773.0	777.3	781.7	786.0	790.3	794.7	799.0	794.4	789.9	785.3	780.8
37.5°	785.0	790.0	795.0	800.0	805.0	810.0	815.0	810.0	805.0	800.0	795.0
40°	798.7	804.2	809.8	815.3	820.9	826.4	832.0	826.4	820.9	815.3	809.8
42.5°	812.7	818.9	825.1	831.3	837.6	843.8	850.0	844.0	838.0	832.0	826.0
45°	827.3	834.1	840.9	847.7	854.4	861.2	868.0	861.4	854.9	848.3	841.8
47.5°	841.3	848.8	856.2	863.7	871.1	878.6	886.0	879.0	872.0	865.0	858.0
50°	856.7	864.9	873.1	881.3	889.6	897.8	906.0	898.3	890.7	883.0	875.3
52.5°	872.0	881.0	890.0	899.0	908.0	917.0	926.0	917.7	909.3	901.0	892.7
55°	885.7	895.2	904.8	914.3	923.9	933.4	943.0	934.4	925.9	917.3	908.8
57.5°	899.7	909.6	919.4	929.3	939.2	949.1	959.0	950.1	941.2	932.3	923.4
60°	910.3	920.4	930.6	940.7	950.8	960.9	971.0	962.0	953.0	944.0	935.0
62.5°	918.0	928.3	938.7	949.0	959.3	969.7	980.0	970.7	961.3	952.0	942.7
65°	922.3	932.8	943.2	953.7	964.1	974.6	985.0	975.8	966.6	957.3	948.1
67.5°	921.3	931.8	942.2	952.7	963.1	973.6	984.0	974.7	965.3	956.0	946.7
70°	913.7	923.9	934.1	944.3	954.6	964.8	975.0	965.8	956.6	947.3	938.1
72.5°	897.3	907.4	917.6	927.7	937.8	947.9	958.0	948.9	939.8	930.7	921.6
75°	873.3	883.1	892.9	902.7	912.4	922.2	932.0	923.2	914.4	905.7	896.9
77.5°	843.3	852.8	862.2	871.7	881.1	890.6	900.0	891.3	882.7	874.0	865.3
80°	809.0	818.3	827.7	837.0	846.3	855.7	865.0	856.6	848.1	839.7	831.2
82.5°	772.3	781.4	790.6	799.7	808.8	817.9	827.0	818.7	810.3	802.0	793.7
85°	737.3	746.1	754.9	763.7	772.4	781.2	790.0	781.9	773.8	765.7	757.6
87.5°	704.3	713.1	721.9	730.7	739.4	748.2	757.0	748.9	740.8	732.7	724.6
90°	676.0	684.3	692.7	701.0	709.3	717.7	726.0	718.2	710.4	702.7	694.9
92.5°	650.7	658.6	666.4	674.3	682.2	690.1	698.0	690.7	683.3	676.0	668.7
95°	627.0	634.7	642.3	650.0	657.7	665.3	673.0	666.0	659.0	652.0	645.0
97.5°	605.0	612.3	619.7	627.0	634.3	641.7	649.0	642.3	635.7	629.0	622.3
100°	584.3	591.4	598.6	605.7	612.8	619.9	627.0	620.4	613.9	607.3	600.8
102.5°	563.7	570.6	577.4	584.3	591.2	598.1	605.0	598.6	592.1	585.7	579.2
105°	543.3	550.1	556.9	563.7	570.4	577.2	584.0	577.7	571.3	565.0	558.7
107.5°	522.0	528.7	535.3	542.0	548.7	555.3	562.0	555.8	549.6	543.3	537.1
110°	499.7	506.2	512.8	519.3	525.9	532.4	539.0	532.9	526.8	520.7	514.6



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	476.0	482.3	488.7	495.0	501.3	507.7	514.0	508.1	502.2	496.3	490.4
115°	452.7	458.9	465.1	471.3	477.6	483.8	490.0	484.2	478.4	472.7	466.9
117.5°	429.0	435.0	441.0	447.0	453.0	459.0	465.0	459.4	453.9	448.3	442.8
120°	404.3	409.8	415.2	420.7	426.1	431.6	437.0	431.9	426.8	421.7	416.6
122.5°	379.3	384.8	390.2	395.7	401.1	406.6	412.0	407.1	402.2	397.3	392.4
125°	354.7	359.9	365.1	370.3	375.6	380.8	386.0	381.2	376.4	371.7	366.9
127.5°	328.3	333.4	338.6	343.7	348.8	353.9	359.0	354.6	350.1	345.7	341.2
130°	302.7	307.6	312.4	317.3	322.2	327.1	332.0	327.7	323.3	319.0	314.7
132.5°	275.7	280.2	284.8	289.3	293.9	298.4	303.0	299.0	295.0	291.0	287.0
135°	247.3	251.8	256.2	260.7	265.1	269.6	274.0	270.2	266.4	262.7	258.9
137.5°	220.3	224.8	229.2	233.7	238.1	242.6	247.0	243.4	239.9	236.3	232.8
140°	192.3	196.8	201.2	205.7	210.1	214.6	219.0	216.0	213.0	210.0	207.0
142.5°	164.7	169.2	173.8	178.3	182.9	187.4	192.0	189.3	186.7	184.0	181.3
145°	139.7	144.6	149.4	154.3	159.2	164.1	169.0	166.3	163.7	161.0	158.3
147.5°	115.3	120.1	124.9	129.7	134.4	139.2	144.0	141.6	139.1	136.7	134.2
150°	91.7	96.2	100.8	105.3	109.9	114.4	119.0	117.0	115.0	113.0	111.0
152.5°	70.7	74.9	79.1	83.3	87.6	91.8	96.0	94.1	92.2	90.3	88.4
155°	51.0	54.7	58.3	62.0	65.7	69.3	73.0	71.4	69.9	68.3	66.8
157.5°	34.0	37.0	40.0	43.0	46.0	49.0	52.0	50.7	49.3	48.0	46.7
160°	18.7	20.9	23.1	25.3	27.6	29.8	32.0	31.1	30.2	29.3	28.4
162.5°	7.0	8.3	9.7	11.0	12.3	13.7	15.0	14.6	14.1	13.7	13.2
165°	1.3	1.8	2.2	2.7	3.1	3.6	4.0	4.0	4.0	4.0	4.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
2.5°	655.2	655.7	656.1	656.6	657.0	658.1	659.2	660.3	661.4	662.6	663.7
5°	645.6	645.7	645.8	645.9	646.0	647.2	648.4	649.7	650.9	652.1	653.3
7.5°	639.0	639.0	639.0	639.0	639.0	639.8	640.6	641.3	642.1	642.9	643.7
10°	636.3	636.0	635.7	635.3	635.0	635.6	636.1	636.7	637.2	637.8	638.3
12.5°	641.6	640.7	639.8	638.9	638.0	637.7	637.3	637.0	636.7	636.3	636.0
15°	657.3	656.0	654.7	653.3	652.0	649.8	647.6	645.3	643.1	640.9	638.7
17.5°	673.1	671.3	669.6	667.8	666.0	662.3	658.7	655.0	651.3	647.7	644.0
20°	689.4	687.3	685.2	683.1	681.0	676.4	671.9	667.3	662.8	658.2	653.7
22.5°	703.7	701.0	698.3	695.7	693.0	687.8	682.6	677.3	672.1	666.9	661.7
25°	718.6	715.7	712.8	709.9	707.0	700.9	694.8	688.7	682.6	676.4	670.3
27.5°	732.9	729.7	726.4	723.2	720.0	713.0	706.0	699.0	692.0	685.0	678.0
30°	747.1	743.3	739.6	735.8	732.0	724.0	716.0	708.0	700.0	692.0	684.0
32.5°	761.4	757.3	753.2	749.1	745.0	735.8	726.6	717.3	708.1	698.9	689.7
35°	776.2	771.7	767.1	762.6	758.0	747.7	737.3	727.0	716.7	706.3	696.0
37.5°	790.0	785.0	780.0	775.0	770.0	758.8	747.6	736.3	725.1	713.9	702.7
40°	804.2	798.7	793.1	787.6	782.0	769.7	757.3	745.0	732.7	720.3	708.0
42.5°	820.0	814.0	808.0	802.0	796.0	782.3	768.7	755.0	741.3	727.7	714.0
45°	835.2	828.7	822.1	815.6	809.0	794.1	779.2	764.3	749.4	734.6	719.7
47.5°	851.0	844.0	837.0	830.0	823.0	806.6	790.1	773.7	757.2	740.8	724.3
50°	867.7	860.0	852.3	844.7	837.0	819.0	801.0	783.0	765.0	747.0	729.0
52.5°	884.3	876.0	867.7	859.3	851.0	831.3	811.7	792.0	772.3	752.7	733.0
55°	900.2	891.7	883.1	874.6	866.0	844.7	823.3	802.0	780.7	759.3	738.0
57.5°	914.6	905.7	896.8	887.9	879.0	856.1	833.2	810.3	787.4	764.6	741.7
60°	926.0	917.0	908.0	899.0	890.0	865.7	841.3	817.0	792.7	768.3	744.0
62.5°	933.3	924.0	914.7	905.3	896.0	870.7	845.3	820.0	794.7	769.3	744.0
65°	938.9	929.7	920.4	911.2	902.0	875.7	849.3	823.0	796.7	770.3	744.0
67.5°	937.3	928.0	918.7	909.3	900.0	873.2	846.4	819.7	792.9	766.1	739.3
70°	928.9	919.7	910.4	901.2	892.0	865.0	838.0	811.0	784.0	757.0	730.0
72.5°	912.4	903.3	894.2	885.1	876.0	849.2	822.4	795.7	768.9	742.1	715.3
75°	888.1	879.3	870.6	861.8	853.0	826.6	800.1	773.7	747.2	720.8	694.3
77.5°	856.7	848.0	839.3	830.7	822.0	796.4	770.9	745.3	719.8	694.2	668.7
80°	822.8	814.3	805.9	797.4	789.0	764.1	739.2	714.3	689.4	664.6	639.7
82.5°	785.3	777.0	768.7	760.3	752.0	728.0	704.0	680.0	656.0	632.0	608.0
85°	749.4	741.3	733.2	725.1	717.0	693.9	670.8	647.7	624.6	601.4	578.3
87.5°	716.4	708.3	700.2	692.1	684.0	661.8	639.6	617.3	595.1	572.9	550.7
90°	687.1	679.3	671.6	663.8	656.0	634.8	613.6	592.3	571.1	549.9	528.7
92.5°	661.3	654.0	646.7	639.3	632.0	611.6	591.1	570.7	550.2	529.8	509.3
95°	638.0	631.0	624.0	617.0	610.0	590.2	570.4	550.7	530.9	511.1	491.3
97.5°	615.7	609.0	602.3	595.7	589.0	569.8	550.6	531.3	512.1	492.9	473.7
100°	594.2	587.7	581.1	574.6	568.0	549.2	530.4	511.7	492.9	474.1	455.3
102.5°	572.8	566.3	559.9	553.4	547.0	528.8	510.6	492.3	474.1	455.9	437.7
105°	552.3	546.0	539.7	533.3	527.0	509.1	491.2	473.3	455.4	437.6	419.7
107.5°	530.9	524.7	518.4	512.2	506.0	488.7	471.3	454.0	436.7	419.3	402.0
110°	508.4	502.3	496.2	490.1	484.0	467.3	450.7	434.0	417.3	400.7	384.0



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLEDD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	484.6	478.7	472.8	466.9	461.0	445.0	429.0	413.0	397.0	381.0	365.0
115°	461.1	455.3	449.6	443.8	438.0	422.7	407.3	392.0	376.7	361.3	346.0
117.5°	437.2	431.7	426.1	420.6	415.0	400.2	385.4	370.7	355.9	341.1	326.3
120°	411.4	406.3	401.2	396.1	391.0	376.8	362.6	348.3	334.1	319.9	305.7
122.5°	387.6	382.7	377.8	372.9	368.0	353.9	339.8	325.7	311.6	297.4	283.3
125°	362.1	357.3	352.6	347.8	343.0	329.6	316.1	302.7	289.2	275.8	262.3
127.5°	336.8	332.3	327.9	323.4	319.0	306.1	293.2	280.3	267.4	254.6	241.7
130°	310.3	306.0	301.7	297.3	293.0	281.2	269.4	257.7	245.9	234.1	222.3
132.5°	283.0	279.0	275.0	271.0	267.0	255.9	244.8	233.7	222.6	211.4	200.3
135°	255.1	251.3	247.6	243.8	240.0	229.9	219.8	209.7	199.6	189.4	179.3
137.5°	229.2	225.7	222.1	218.6	215.0	205.8	196.6	187.3	178.1	168.9	159.7
140°	204.0	201.0	198.0	195.0	192.0	183.2	174.4	165.7	156.9	148.1	139.3
142.5°	178.7	176.0	173.3	170.7	168.0	160.1	152.2	144.3	136.4	128.6	120.7
145°	155.7	153.0	150.3	147.7	145.0	137.8	130.6	123.3	116.1	108.9	101.7
147.5°	131.8	129.3	126.9	124.4	122.0	115.6	109.1	102.7	96.2	89.8	83.3
150°	109.0	107.0	105.0	103.0	101.0	95.2	89.4	83.7	77.9	72.1	66.3
152.5°	86.6	84.7	82.8	80.9	79.0	74.1	69.2	64.3	59.4	54.6	49.7
155°	65.2	63.7	62.1	60.6	59.0	54.9	50.8	46.7	42.6	38.4	34.3
157.5°	45.3	44.0	42.7	41.3	40.0	37.0	34.0	31.0	28.0	25.0	22.0
160°	27.6	26.7	25.8	24.9	24.0	22.0	20.0	18.0	16.0	14.0	12.0
162.5°	12.8	12.3	11.9	11.4	11.0	10.1	9.2	8.3	7.4	6.6	5.7
165°	4.0	4.0	4.0	4.0	4.0	3.7	3.3	3.0	2.7	2.3	2.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
2.5°	664.8	665.9	667.0	667.2	667.4	667.7	667.9	668.1	668.3	668.6	668.8
5°	654.6	655.8	657.0	657.4	657.9	658.3	658.8	659.2	659.7	660.1	660.6
7.5°	644.4	645.2	646.0	646.6	647.1	647.7	648.2	648.8	649.3	649.9	650.4
10°	638.9	639.4	640.0	640.1	640.2	640.3	640.4	640.6	640.7	640.8	640.9
12.5°	635.7	635.3	635.0	634.4	633.9	633.3	632.8	632.2	631.7	631.1	630.6
15°	636.4	634.2	632.0	630.4	628.9	627.3	625.8	624.2	622.7	621.1	619.6
17.5°	640.3	636.7	633.0	629.9	626.8	623.7	620.6	617.4	614.3	611.2	608.1
20°	649.1	644.6	640.0	634.8	629.6	624.3	619.1	613.9	608.7	603.4	598.2
22.5°	656.4	651.2	646.0	638.7	631.3	624.0	616.7	609.3	602.0	594.7	587.3
25°	664.2	658.1	652.0	642.7	633.3	624.0	614.7	605.3	596.0	586.7	577.3
27.5°	671.0	664.0	657.0	645.8	634.6	623.3	612.1	600.9	589.7	578.4	567.2
30°	676.0	668.0	660.0	647.2	634.4	621.7	608.9	596.1	583.3	570.6	557.8
32.5°	680.4	671.2	662.0	648.0	634.0	620.0	606.0	592.0	578.0	564.0	550.0
35°	685.7	675.3	665.0	649.8	634.6	619.3	604.1	588.9	573.7	558.4	543.2
37.5°	691.4	680.2	669.0	652.3	635.7	619.0	602.3	585.7	569.0	552.3	535.7
40°	695.7	683.3	671.0	653.1	635.2	617.3	599.4	581.6	563.7	545.8	527.9
42.5°	700.3	686.7	673.0	653.8	634.6	615.3	596.1	576.9	557.7	538.4	519.2
45°	704.8	689.9	675.0	654.3	633.7	613.0	592.3	571.7	551.0	530.3	509.7
47.5°	707.9	691.4	675.0	653.1	631.2	609.3	587.4	565.6	543.7	521.8	499.9
50°	711.0	693.0	675.0	651.7	628.3	605.0	581.7	558.3	535.0	511.7	488.3
52.5°	713.3	693.7	674.0	649.4	624.9	600.3	575.8	551.2	526.7	502.1	477.6
55°	716.7	695.3	674.0	648.0	622.0	596.0	570.0	544.0	518.0	492.0	466.0
57.5°	718.8	695.9	673.0	645.7	618.3	591.0	563.7	536.3	509.0	481.7	454.3
60°	719.7	695.3	671.0	642.4	613.9	585.3	556.8	528.2	499.7	471.1	442.6
62.5°	718.7	693.3	668.0	638.1	608.2	578.3	548.4	518.6	488.7	458.8	428.9
65°	717.7	691.3	665.0	633.7	602.3	571.0	539.7	508.3	477.0	445.7	414.3
67.5°	712.6	685.8	659.0	626.6	594.1	561.7	529.2	496.8	464.3	431.9	399.4
70°	703.0	676.0	649.0	615.8	582.6	549.3	516.1	482.9	449.7	416.4	383.2
72.5°	688.6	661.8	635.0	601.2	567.4	533.7	499.9	466.1	432.3	398.6	364.8
75°	667.9	641.4	615.0	581.3	547.7	514.0	480.3	446.7	413.0	379.3	345.7
77.5°	643.1	617.6	592.0	558.8	525.6	492.3	459.1	425.9	392.7	359.4	326.2
80°	614.8	589.9	565.0	532.6	500.1	467.7	435.2	402.8	370.3	337.9	305.4
82.5°	584.0	560.0	536.0	504.8	473.6	442.3	411.1	379.9	348.7	317.4	286.2
85°	555.2	532.1	509.0	478.6	448.1	417.7	387.2	356.8	326.3	295.9	265.4
87.5°	528.4	506.2	484.0	454.7	425.3	396.0	366.7	337.3	308.0	278.7	249.3
90°	507.4	486.2	465.0	436.4	407.9	379.3	350.8	322.2	293.7	265.1	236.6
92.5°	488.9	468.4	448.0	420.3	392.7	365.0	337.3	309.7	282.0	254.3	226.7
95°	471.6	451.8	432.0	405.1	378.2	351.3	324.4	297.6	270.7	243.8	216.9
97.5°	454.4	435.2	416.0	389.8	363.6	337.3	311.1	284.9	258.7	232.4	206.2
100°	436.6	417.8	399.0	373.6	348.1	322.7	297.2	271.8	246.3	220.9	195.4
102.5°	419.4	401.2	383.0	358.1	333.2	308.3	283.4	258.6	233.7	208.8	183.9
105°	401.8	383.9	366.0	341.9	317.8	293.7	269.6	245.4	221.3	197.2	173.1
107.5°	384.7	367.3	350.0	326.4	302.9	279.3	255.8	232.2	208.7	185.1	161.6
110°	367.3	350.7	334.0	311.1	288.2	265.3	242.4	219.6	196.7	173.8	150.9



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	349.0	333.0	317.0	294.8	272.6	250.3	228.1	205.9	183.7	161.4	139.2
115°	330.7	315.3	300.0	278.6	257.1	235.7	214.2	192.8	171.3	149.9	128.4
117.5°	311.6	296.8	282.0	261.4	240.9	220.3	199.8	179.2	158.7	138.1	117.6
120°	291.4	277.2	263.0	243.4	223.9	204.3	184.8	165.2	145.7	126.1	106.6
122.5°	269.2	255.1	241.0	222.8	204.6	186.3	168.1	149.9	131.7	113.4	95.2
125°	248.9	235.4	222.0	204.8	187.6	170.3	153.1	135.9	118.7	101.4	84.2
127.5°	228.8	215.9	203.0	186.9	170.8	154.7	138.6	122.4	106.3	90.2	74.1
130°	210.6	198.8	187.0	171.7	156.3	141.0	125.7	110.3	95.0	79.7	64.3
132.5°	189.2	178.1	167.0	152.9	138.8	124.7	110.6	96.4	82.3	68.2	54.1
135°	169.2	159.1	149.0	136.0	123.0	110.0	97.0	84.0	71.0	58.0	45.0
137.5°	150.4	141.2	132.0	120.0	108.0	96.0	84.0	72.0	60.0	48.0	36.0
140°	130.6	121.8	113.0	102.3	91.7	81.0	70.3	59.7	49.0	38.3	27.7
142.5°	112.8	104.9	97.0	87.6	78.1	68.7	59.2	49.8	40.3	30.9	21.4
145°	94.4	87.2	80.0	72.0	64.0	56.0	48.0	40.0	32.0	24.0	16.0
147.5°	76.9	70.4	64.0	57.6	51.1	44.7	38.2	31.8	25.3	18.9	12.4
150°	60.6	54.8	49.0	44.0	39.0	34.0	29.0	24.0	19.0	14.0	9.0
152.5°	44.8	39.9	35.0	31.4	27.9	24.3	20.8	17.2	13.7	10.1	6.6
155°	30.2	26.1	22.0	19.8	17.6	15.3	13.1	10.9	8.7	6.4	4.2
157.5°	19.0	16.0	13.0	11.7	10.3	9.0	7.7	6.3	5.0	3.7	2.3
160°	10.0	8.0	6.0	5.4	4.9	4.3	3.8	3.2	2.7	2.1	1.6
162.5°	4.8	3.9	3.0	2.7	2.3	2.0	1.7	1.3	1.0	0.7	0.3
165°	1.7	1.3	1.0	0.9	0.8	0.7	0.6	0.4	0.3	0.2	0.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9
175°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLEDD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
2.5°	669.0	670.8	672.6	674.3	676.1	677.9	679.7	681.4	683.2	685.0	684.9
5°	661.0	663.3	665.7	668.0	670.3	672.7	675.0	677.3	679.7	682.0	682.8
7.5°	651.0	653.8	656.6	659.3	662.1	664.9	667.7	670.4	673.2	676.0	677.6
10°	641.0	644.1	647.2	650.3	653.4	656.6	659.7	662.8	665.9	669.0	671.3
12.5°	630.0	633.2	636.4	639.7	642.9	646.1	649.3	652.6	655.8	659.0	662.2
15°	618.0	621.2	624.4	627.7	630.9	634.1	637.3	640.6	643.8	647.0	651.2
17.5°	605.0	608.3	611.7	615.0	618.3	621.7	625.0	628.3	631.7	635.0	640.0
20°	593.0	596.0	599.0	602.0	605.0	608.0	611.0	614.0	617.0	620.0	626.1
22.5°	580.0	582.6	585.1	587.7	590.2	592.8	595.3	597.9	600.4	603.0	610.2
25°	568.0	569.9	571.8	573.7	575.6	577.4	579.3	581.2	583.1	585.0	593.2
27.5°	556.0	557.1	558.2	559.3	560.4	561.6	562.7	563.8	564.9	566.0	575.4
30°	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	555.9
32.5°	536.0	534.4	532.9	531.3	529.8	528.2	526.7	525.1	523.6	522.0	534.4
35°	528.0	524.7	521.3	518.0	514.7	511.3	508.0	504.7	501.3	498.0	512.2
37.5°	519.0	514.0	509.0	504.0	499.0	494.0	489.0	484.0	479.0	474.0	490.0
40°	510.0	503.2	496.4	489.7	482.9	476.1	469.3	462.6	455.8	449.0	466.9
42.5°	500.0	491.6	483.1	474.7	466.2	457.8	449.3	440.9	432.4	424.0	443.8
45°	489.0	478.9	468.8	458.7	448.6	438.4	428.3	418.2	408.1	398.0	419.7
47.5°	478.0	466.0	454.0	442.0	430.0	418.0	406.0	394.0	382.0	370.0	393.7
50°	465.0	451.6	438.1	424.7	411.2	397.8	384.3	370.9	357.4	344.0	369.3
52.5°	453.0	437.8	422.6	407.3	392.1	376.9	361.7	346.4	331.2	316.0	343.2
55°	440.0	423.2	406.4	389.7	372.9	356.1	339.3	322.6	305.8	289.0	317.9
57.5°	427.0	408.8	390.6	372.3	354.1	335.9	317.7	299.4	281.2	263.0	293.3
60°	414.0	394.0	374.0	354.0	334.0	314.0	294.0	274.0	254.0	234.0	266.1
62.5°	399.0	377.7	356.3	335.0	313.7	292.3	271.0	249.7	228.3	207.0	240.3
65°	383.0	360.6	338.1	315.7	293.2	270.8	248.3	225.9	203.4	181.0	215.6
67.5°	367.0	343.6	320.1	296.7	273.2	249.8	226.3	202.9	179.4	156.0	191.6
70°	350.0	325.7	301.3	277.0	252.7	228.3	204.0	179.7	155.3	131.0	167.4
72.5°	331.0	306.1	281.2	256.3	231.4	206.6	181.7	156.8	131.9	107.0	144.1
75°	312.0	286.7	261.3	236.0	210.7	185.3	160.0	134.7	109.3	84.0	121.6
77.5°	293.0	267.4	241.9	216.3	190.8	165.2	139.7	114.1	88.6	63.0	100.8
80°	273.0	247.7	222.3	197.0	171.7	146.3	121.0	95.7	70.3	45.0	82.8
82.5°	255.0	229.8	204.6	179.3	154.1	128.9	103.7	78.4	53.2	28.0	65.3
85°	235.0	210.6	186.1	161.7	137.2	112.8	88.3	63.9	39.4	15.0	51.7
87.5°	220.0	196.1	172.2	148.3	124.4	100.6	76.7	52.8	28.9	5.0	40.8
90°	208.0	184.9	161.8	138.7	115.6	92.4	69.3	46.2	23.1	0.0	34.6
92.5°	199.0	176.9	154.8	132.7	110.6	88.4	66.3	44.2	22.1	0.0	33.1
95°	190.0	168.9	147.8	126.7	105.6	84.4	63.3	42.2	21.1	0.0	31.9
97.5°	180.0	160.0	140.0	120.0	100.0	80.0	60.0	40.0	20.0	0.0	30.4
100°	170.0	151.1	132.2	113.3	94.4	75.6	56.7	37.8	18.9	0.0	29.1
102.5°	159.0	141.3	123.7	106.0	88.3	70.7	53.0	35.3	17.7	0.0	27.3
105°	149.0	132.4	115.9	99.3	82.8	66.2	49.7	33.1	16.6	0.0	25.9
107.5°	138.0	122.7	107.3	92.0	76.7	61.3	46.0	30.7	15.3	0.0	24.4
110°	128.0	113.8	99.6	85.3	71.1	56.9	42.7	28.4	14.2	0.0	22.9



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	117.0	104.0	91.0	78.0	65.0	52.0	39.0	26.0	13.0	0.0	21.3
115°	107.0	95.1	83.2	71.3	59.4	47.6	35.7	23.8	11.9	0.0	19.6
117.5°	97.0	86.3	75.7	65.0	54.3	43.7	33.0	22.3	11.7	1.0	18.8
120°	87.0	77.4	67.9	58.3	48.8	39.2	29.7	20.1	10.6	1.0	17.1
122.5°	77.0	68.4	59.9	51.3	42.8	34.2	25.7	17.1	8.6	0.0	14.6
125°	67.0	59.7	52.3	45.0	37.7	30.3	23.0	15.7	8.3	1.0	13.7
127.5°	58.0	51.7	45.3	39.0	32.7	26.3	20.0	13.7	7.3	1.0	11.7
130°	49.0	43.7	38.3	33.0	27.7	22.3	17.0	11.7	6.3	1.0	9.7
132.5°	40.0	35.7	31.3	27.0	22.7	18.3	14.0	9.7	5.3	1.0	8.0
135°	32.0	28.6	25.1	21.7	18.2	14.8	11.3	7.9	4.4	1.0	6.4
137.5°	24.0	21.4	18.9	16.3	13.8	11.2	8.7	6.1	3.6	1.0	5.1
140°	17.0	15.2	13.4	11.7	9.9	8.1	6.3	4.6	2.8	1.0	3.9
142.5°	12.0	10.8	9.6	8.3	7.1	5.9	4.7	3.4	2.2	1.0	3.0
145°	8.0	7.2	6.4	5.7	4.9	4.1	3.3	2.6	1.8	1.0	2.4
147.5°	6.0	5.4	4.9	4.3	3.8	3.2	2.7	2.1	1.6	1.0	1.9
150°	4.0	3.7	3.3	3.0	2.7	2.3	2.0	1.7	1.3	1.0	1.7
152.5°	3.0	2.8	2.6	2.3	2.1	1.9	1.7	1.4	1.2	1.0	1.4
155°	2.0	1.9	1.8	1.7	1.6	1.4	1.3	1.2	1.1	1.0	1.2
157.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1
160°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
162.5°	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.0
165°	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	0.9
167.5°	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	0.9
170°	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	0.9
172.5°	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	1.8
175°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
2.5°	684.8	684.7	684.6	684.4	684.3	684.2	684.1	684.0	684.6	685.1	685.7
5°	683.6	684.3	685.1	685.9	686.7	687.4	688.2	689.0	690.2	691.4	692.7
7.5°	679.1	680.7	682.2	683.8	685.3	686.9	688.4	690.0	692.0	694.0	696.0
10°	673.7	676.0	678.3	680.7	683.0	685.3	687.7	690.0	692.9	695.8	698.7
12.5°	665.4	668.7	671.9	675.1	678.3	681.6	684.8	688.0	692.1	696.2	700.3
15°	655.4	659.7	663.9	668.1	672.3	676.6	680.8	685.0	690.4	695.9	701.3
17.5°	645.0	650.0	655.0	660.0	665.0	670.0	675.0	680.0	687.0	694.0	701.0
20°	632.2	638.3	644.4	650.6	656.7	662.8	668.9	675.0	683.9	692.8	701.7
22.5°	617.4	624.7	631.9	639.1	646.3	653.6	660.8	668.0	679.4	690.9	702.3
25°	601.4	609.7	617.9	626.1	634.3	642.6	650.8	659.0	673.0	687.0	701.0
27.5°	584.9	594.3	603.8	613.2	622.7	632.1	641.6	651.0	667.4	683.9	700.3
30°	566.8	577.7	588.6	599.4	610.3	621.2	632.1	643.0	661.7	680.3	699.0
32.5°	546.9	559.3	571.8	584.2	596.7	609.1	621.6	634.0	654.9	675.8	696.7
35°	526.4	540.7	554.9	569.1	583.3	597.6	611.8	626.0	648.8	671.6	694.3
37.5°	506.0	522.0	538.0	554.0	570.0	586.0	602.0	618.0	642.7	667.3	692.0
40°	484.8	502.7	520.6	538.4	556.3	574.2	592.1	610.0	636.6	663.1	689.7
42.5°	463.6	483.3	503.1	522.9	542.7	562.4	582.2	602.0	630.2	658.4	686.7
45°	441.3	463.0	484.7	506.3	528.0	549.7	571.3	593.0	622.9	652.8	682.7
47.5°	417.3	441.0	464.7	488.3	512.0	535.7	559.3	583.0	614.7	646.3	678.0
50°	394.7	420.0	445.3	470.7	496.0	521.3	546.7	572.0	605.2	638.4	671.7
52.5°	370.4	397.7	424.9	452.1	479.3	506.6	533.8	561.0	595.6	630.1	664.7
55°	346.8	375.7	404.6	433.4	462.3	491.2	520.1	549.0	585.1	621.2	657.3
57.5°	323.7	354.0	384.3	414.7	445.0	475.3	505.7	536.0	573.6	611.1	648.7
60°	298.2	330.3	362.4	394.6	426.7	458.8	490.9	523.0	562.0	601.0	640.0
62.5°	273.7	307.0	340.3	373.7	407.0	440.3	473.7	507.0	547.4	587.9	628.3
65°	250.1	284.7	319.2	353.8	388.3	422.9	457.4	492.0	533.7	575.3	617.0
67.5°	227.1	262.7	298.2	333.8	369.3	404.9	440.4	476.0	519.0	562.0	605.0
70°	203.9	240.3	276.8	313.2	349.7	386.1	422.6	459.0	503.0	547.0	591.0
72.5°	181.2	218.3	255.4	292.6	329.7	366.8	403.9	441.0	485.6	530.1	574.7
75°	159.1	196.7	234.2	271.8	309.3	346.9	384.4	422.0	467.0	512.0	557.0
77.5°	138.6	176.3	214.1	251.9	289.7	327.4	365.2	403.0	448.0	493.0	538.0
80°	120.6	158.3	196.1	233.9	271.7	309.4	347.2	385.0	429.6	474.1	518.7
82.5°	102.7	140.0	177.3	214.7	252.0	289.3	326.7	364.0	408.3	452.7	497.0
85°	88.3	125.0	161.7	198.3	235.0	271.7	308.3	345.0	388.7	432.3	476.0
87.5°	76.6	112.3	148.1	183.9	219.7	255.4	291.2	327.0	369.8	412.6	455.3
90°	69.1	103.7	138.2	172.8	207.3	241.9	276.4	311.0	352.9	394.8	436.7
92.5°	66.2	99.3	132.4	165.6	198.7	231.8	264.9	298.0	339.2	380.4	421.7
95°	63.8	95.7	127.6	159.4	191.3	223.2	255.1	287.0	327.4	367.9	408.3
97.5°	60.9	91.3	121.8	152.2	182.7	213.1	243.6	274.0	313.9	353.8	393.7
100°	58.2	87.3	116.4	145.6	174.7	203.8	232.9	262.0	301.2	340.4	379.7
102.5°	54.7	82.0	109.3	136.7	164.0	191.3	218.7	246.0	284.8	323.6	362.3
105°	51.8	77.7	103.6	129.4	155.3	181.2	207.1	233.0	270.9	308.8	346.7
107.5°	48.9	73.3	97.8	122.2	146.7	171.1	195.6	220.0	257.1	294.2	331.3
110°	45.8	68.7	91.6	114.4	137.3	160.2	183.1	206.0	242.2	278.4	314.7



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	42.7	64.0	85.3	106.7	128.0	149.3	170.7	192.0	227.1	262.2	297.3
115°	39.1	58.7	78.2	97.8	117.3	136.9	156.4	176.0	210.0	244.0	278.0
117.5°	36.6	54.3	72.1	89.9	107.7	125.4	143.2	161.0	193.9	226.8	259.7
120°	33.2	49.3	65.4	81.6	97.7	113.8	129.9	146.0	177.8	209.6	241.3
122.5°	29.1	43.7	58.2	72.8	87.3	101.9	116.4	131.0	161.4	191.9	222.3
125°	26.3	39.0	51.7	64.3	77.0	89.7	102.3	115.0	144.1	173.2	202.3
127.5°	22.3	33.0	43.7	54.3	65.0	75.7	86.3	97.0	124.4	151.9	179.3
130°	18.3	27.0	35.7	44.3	53.0	61.7	70.3	79.0	104.0	129.0	154.0
132.5°	15.0	22.0	29.0	36.0	43.0	50.0	57.0	64.0	86.4	108.9	131.3
135°	11.9	17.3	22.8	28.2	33.7	39.1	44.6	50.0	69.9	89.8	109.7
137.5°	9.2	13.3	17.4	21.6	25.7	29.8	33.9	38.0	55.7	73.3	91.0
140°	6.8	9.7	12.6	15.4	18.3	21.2	24.1	27.0	42.6	58.1	73.7
142.5°	5.0	7.0	9.0	11.0	13.0	15.0	17.0	19.0	32.3	45.7	59.0
145°	3.9	5.3	6.8	8.2	9.7	11.1	12.6	14.0	25.0	36.0	47.0
147.5°	2.8	3.7	4.6	5.4	6.3	7.2	8.1	9.0	18.1	27.2	36.3
150°	2.3	3.0	3.7	4.3	5.0	5.7	6.3	7.0	13.9	20.8	27.7
152.5°	1.9	2.3	2.8	3.2	3.7	4.1	4.6	5.0	10.0	15.0	20.0
155°	1.4	1.7	1.9	2.1	2.3	2.6	2.8	3.0	6.3	9.7	13.0
157.5°	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	4.0	6.0	8.0
160°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	3.2	4.3
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.7	2.0
165°	0.8	0.7	0.6	0.4	0.3	0.2	0.1	0.0	0.1	0.2	0.3
167.5°	0.8	0.7	0.6	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0
170°	0.8	0.7	0.6	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0
172.5°	1.6	1.3	1.1	0.9	0.7	0.4	0.2	0.0	0.0	0.0	0.0
175°	0.8	0.7	0.6	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
2.5°	686.2	686.8	687.3	687.9	688.4	689.0	689.1	689.2	689.3	689.4	689.6
5°	693.9	695.1	696.3	697.6	698.8	700.0	700.6	701.1	701.7	702.2	702.8
7.5°	698.0	700.0	702.0	704.0	706.0	708.0	709.6	711.1	712.7	714.2	715.8
10°	701.6	704.4	707.3	710.2	713.1	716.0	718.6	721.1	723.7	726.2	728.8
12.5°	704.4	708.6	712.7	716.8	720.9	725.0	728.6	732.1	735.7	739.2	742.8
15°	706.8	712.2	717.7	723.1	728.6	734.0	738.7	743.3	748.0	752.7	757.3
17.5°	708.0	715.0	722.0	729.0	736.0	743.0	749.7	756.3	763.0	769.7	776.3
20°	710.6	719.4	728.3	737.2	746.1	755.0	763.2	771.4	779.7	787.9	796.1
22.5°	713.8	725.2	736.7	748.1	759.6	771.0	780.3	789.7	799.0	808.3	817.7
25°	715.0	729.0	743.0	757.0	771.0	785.0	795.6	806.1	816.7	827.2	837.8
27.5°	716.8	733.2	749.7	766.1	782.6	799.0	810.7	822.3	834.0	845.7	857.3
30°	717.7	736.3	755.0	773.7	792.3	811.0	823.8	836.6	849.3	862.1	874.9
32.5°	717.6	738.4	759.3	780.2	801.1	822.0	836.1	850.2	864.3	878.4	892.6
35°	717.1	739.9	762.7	785.4	808.2	831.0	846.6	862.1	877.7	893.2	908.8
37.5°	716.7	741.3	766.0	790.7	815.3	840.0	856.9	873.8	890.7	907.6	924.4
40°	716.2	742.8	769.3	795.9	822.4	849.0	867.1	885.2	903.3	921.4	939.6
42.5°	714.9	743.1	771.3	799.6	827.8	856.0	875.7	895.3	915.0	934.7	954.3
45°	712.6	742.4	772.3	802.2	832.1	862.0	883.1	904.2	925.3	946.4	967.6
47.5°	709.7	741.3	773.0	804.7	836.3	868.0	890.8	913.5	936.3	959.1	981.8
50°	704.9	738.1	771.3	804.6	837.8	871.0	895.4	919.9	944.3	968.7	993.2
52.5°	699.2	733.8	768.3	802.9	837.4	872.0	898.3	924.6	951.0	977.3	1003.6
55°	693.4	729.6	765.7	801.8	837.9	874.0	902.0	930.0	958.0	986.0	1013.9
57.5°	686.2	723.8	761.3	798.9	836.4	874.0	903.5	933.1	962.6	992.2	1021.7
60°	679.0	718.0	757.0	796.0	835.0	874.0	904.9	935.8	966.6	997.5	1028.4
62.5°	668.8	709.2	749.7	790.1	830.6	871.0	903.1	935.2	967.3	999.4	1031.5
65°	658.7	700.3	742.0	783.7	825.3	867.0	900.2	933.4	966.6	999.8	1033.1
67.5°	648.0	691.0	734.0	777.0	820.0	863.0	896.9	930.8	964.6	998.5	1032.4
70°	635.0	679.0	723.0	767.0	811.0	855.0	889.4	923.9	958.3	992.7	1027.2
72.5°	619.2	663.8	708.3	752.9	797.4	842.0	877.0	912.0	947.0	982.0	1016.9
75°	602.0	647.0	692.0	737.0	782.0	827.0	862.2	897.4	932.6	967.8	1003.1
77.5°	583.0	628.0	673.0	718.0	763.0	808.0	843.1	878.2	913.3	948.4	983.5
80°	563.2	607.8	652.3	696.9	741.4	786.0	820.9	855.8	890.6	925.5	960.4
82.5°	541.3	585.7	630.0	674.3	718.7	763.0	797.2	831.4	865.6	899.8	934.1
85°	519.7	563.3	607.0	650.7	694.3	738.0	771.8	805.6	839.3	873.1	906.9
87.5°	498.1	540.9	583.7	626.4	669.2	712.0	745.0	778.0	811.0	844.0	877.0
90°	478.6	520.4	562.3	604.2	646.1	688.0	720.1	752.2	784.3	816.4	848.6
92.5°	462.9	504.1	545.3	586.6	627.8	669.0	700.3	731.7	763.0	794.3	825.7
95°	448.8	489.2	529.7	570.1	610.6	651.0	681.9	712.8	743.7	774.6	805.4
97.5°	433.6	473.4	513.3	553.2	593.1	633.0	662.8	692.6	722.3	752.1	781.9
100°	418.9	458.1	497.3	536.6	575.8	615.0	644.1	673.2	702.3	731.4	760.6
102.5°	401.1	439.9	478.7	517.4	556.2	595.0	623.7	652.3	681.0	709.7	738.3
105°	384.6	422.4	460.3	498.2	536.1	574.0	602.2	630.4	658.7	686.9	715.1
107.5°	368.4	405.6	442.7	479.8	516.9	554.0	581.4	608.9	636.3	663.8	691.2
110°	350.9	387.1	423.3	459.6	495.8	532.0	558.9	585.8	612.7	639.6	666.4



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	332.4	367.6	402.7	437.8	472.9	508.0	534.2	560.4	586.7	612.9	639.1
115°	312.0	346.0	380.0	414.0	448.0	482.0	507.8	533.6	559.3	585.1	610.9
117.5°	292.6	325.4	358.3	391.2	424.1	457.0	481.9	506.8	531.7	556.6	581.4
120°	273.1	304.9	336.7	368.4	400.2	432.0	455.9	479.8	503.7	527.6	551.4
122.5°	252.8	283.2	313.7	344.1	374.6	405.0	428.0	451.0	474.0	497.0	520.0
125°	231.4	260.6	289.7	318.8	347.9	377.0	399.0	421.0	443.0	465.0	487.0
127.5°	206.8	234.2	261.7	289.1	316.6	344.0	365.4	386.9	408.3	429.8	451.2
130°	179.0	204.0	229.0	254.0	279.0	304.0	325.7	347.3	369.0	390.7	412.3
132.5°	153.8	176.2	198.7	221.1	243.6	266.0	287.4	308.9	330.3	351.8	373.2
135°	129.6	149.4	169.3	189.2	209.1	229.0	250.0	271.0	292.0	313.0	334.0
137.5°	108.7	126.3	144.0	161.7	179.3	197.0	216.6	236.1	255.7	275.2	294.8
140°	89.2	104.8	120.3	135.9	151.4	167.0	184.4	201.9	219.3	236.8	254.2
142.5°	72.3	85.7	99.0	112.3	125.7	139.0	154.3	169.7	185.0	200.3	215.7
145°	58.0	69.0	80.0	91.0	102.0	113.0	126.2	139.4	152.7	165.9	179.1
147.5°	45.4	54.6	63.7	72.8	81.9	91.0	102.1	113.2	124.3	135.4	146.6
150°	34.6	41.4	48.3	55.2	62.1	69.0	78.4	87.9	97.3	106.8	116.2
152.5°	25.0	30.0	35.0	40.0	45.0	50.0	57.8	65.6	73.3	81.1	88.9
155°	16.3	19.7	23.0	26.3	29.7	33.0	39.1	45.2	51.3	57.4	63.6
157.5°	10.0	12.0	14.0	16.0	18.0	20.0	24.6	29.1	33.7	38.2	42.8
160°	5.4	6.6	7.7	8.8	9.9	11.0	13.9	16.8	19.7	22.6	25.4
162.5°	2.3	2.7	3.0	3.3	3.7	4.0	5.7	7.3	9.0	10.7	12.3
165°	0.4	0.6	0.7	0.8	0.9	1.0	1.7	2.3	3.0	3.7	4.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
2.5°	689.7	689.8	689.9	690.0	689.4	688.9	688.3	687.8	687.2	686.7	686.1
5°	703.3	703.9	704.4	705.0	705.1	705.2	705.3	705.4	705.6	705.7	705.8
7.5°	717.3	718.9	720.4	722.0	722.1	722.2	722.3	722.4	722.6	722.7	722.8
10°	731.3	733.9	736.4	739.0	739.3	739.7	740.0	740.3	740.7	741.0	741.3
12.5°	746.3	749.9	753.4	757.0	757.9	758.8	759.7	760.6	761.4	762.3	763.2
15°	762.0	766.7	771.3	776.0	777.9	779.8	781.7	783.6	785.4	787.3	789.2
17.5°	783.0	789.7	796.3	803.0	805.1	807.2	809.3	811.4	813.6	815.7	817.8
20°	804.3	812.6	820.8	829.0	831.7	834.3	837.0	839.7	842.3	845.0	847.7
22.5°	827.0	836.3	845.7	855.0	858.1	861.2	864.3	867.4	870.6	873.7	876.8
25°	848.3	858.9	869.4	880.0	883.4	886.9	890.3	893.8	897.2	900.7	904.1
27.5°	869.0	880.7	892.3	904.0	908.0	912.0	916.0	920.0	924.0	928.0	932.0
30°	887.7	900.4	913.2	926.0	930.7	935.3	940.0	944.7	949.3	954.0	958.7
32.5°	906.7	920.8	934.9	949.0	954.2	959.4	964.7	969.9	975.1	980.3	985.6
35°	924.3	939.9	955.4	971.0	976.9	982.8	988.7	994.6	1000.4	1006.3	1012.2
37.5°	941.3	958.2	975.1	992.0	998.6	1005.1	1011.7	1018.2	1024.8	1031.3	1037.9
40°	957.7	975.8	993.9	1012.0	1019.3	1026.6	1034.0	1041.3	1048.6	1055.9	1063.3
42.5°	974.0	993.7	1013.3	1033.0	1041.0	1049.0	1057.0	1065.0	1072.9	1080.9	1088.9
45°	988.7	1009.8	1030.9	1052.0	1060.9	1069.8	1078.6	1087.5	1096.4	1105.3	1114.1
47.5°	1004.6	1027.4	1050.1	1072.9	1082.5	1092.0	1101.6	1111.1	1120.7	1130.2	1139.8
50°	1017.6	1042.0	1066.5	1090.9	1101.2	1111.6	1121.9	1132.2	1142.6	1152.9	1163.2
52.5°	1029.9	1056.3	1082.6	1108.9	1120.0	1131.1	1142.2	1153.3	1164.5	1175.6	1186.7
55°	1041.9	1069.9	1097.9	1125.9	1137.6	1149.2	1160.9	1172.6	1184.2	1195.9	1207.6
57.5°	1051.3	1080.8	1110.4	1139.9	1152.2	1164.6	1176.9	1189.2	1201.6	1213.9	1226.2
60°	1059.3	1090.1	1121.0	1151.9	1164.7	1177.5	1190.2	1203.0	1215.8	1228.6	1241.3
62.5°	1063.6	1095.7	1127.8	1159.9	1173.1	1186.3	1199.6	1212.8	1226.0	1239.2	1252.5
65°	1066.3	1099.5	1132.7	1165.9	1179.2	1192.6	1205.9	1219.2	1232.6	1245.9	1259.2
67.5°	1066.3	1100.1	1134.0	1167.9	1181.3	1194.8	1208.2	1221.7	1235.1	1248.6	1262.0
70°	1061.6	1096.0	1130.5	1164.9	1178.5	1192.0	1205.6	1219.1	1232.7	1246.2	1259.8
72.5°	1051.9	1086.9	1121.9	1156.9	1170.5	1184.0	1197.6	1211.1	1224.7	1238.2	1251.8
75°	1038.3	1073.5	1108.7	1143.9	1157.3	1170.8	1184.2	1197.7	1211.1	1224.6	1238.0
77.5°	1018.6	1053.7	1088.8	1123.9	1137.2	1150.6	1163.9	1177.2	1190.6	1203.9	1217.2
80°	995.3	1030.1	1065.0	1099.9	1113.1	1126.3	1139.6	1152.8	1166.0	1179.2	1192.5
82.5°	968.3	1002.5	1036.7	1070.9	1084.0	1097.1	1110.2	1123.3	1136.5	1149.6	1162.7
85°	940.7	974.4	1008.2	1042.0	1054.8	1067.5	1080.3	1093.1	1105.8	1118.6	1131.4
87.5°	910.0	943.0	976.0	1009.0	1021.7	1034.3	1047.0	1059.6	1072.3	1084.9	1097.6
90°	880.7	912.8	944.9	977.0	989.4	1001.9	1014.3	1026.7	1039.2	1051.6	1064.0
92.5°	857.0	888.3	919.7	951.0	963.0	975.0	987.0	999.0	1010.9	1022.9	1034.9
95°	836.3	867.2	898.1	929.0	940.3	951.7	963.0	974.3	985.7	997.0	1008.3
97.5°	811.7	841.4	871.2	901.0	912.3	923.7	935.0	946.3	957.7	969.0	980.3
100°	789.7	818.8	847.9	877.0	887.9	898.8	909.7	920.6	931.4	942.3	953.2
102.5°	767.0	795.7	824.3	853.0	863.6	874.1	884.7	895.2	905.8	916.3	926.9
105°	743.3	771.6	799.8	828.0	838.3	848.7	859.0	869.3	879.7	890.0	900.3
107.5°	718.7	746.1	773.6	801.0	811.2	821.4	831.7	841.9	852.1	862.3	872.6
110°	693.3	720.2	747.1	774.0	784.0	794.0	804.0	814.0	824.0	834.0	844.0



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	665.3	691.6	717.8	744.0	753.7	763.3	773.0	782.7	792.3	802.0	811.7
115°	636.7	662.4	688.2	714.0	723.3	732.7	742.0	751.3	760.7	770.0	779.3
117.5°	606.3	631.2	656.1	681.0	690.1	699.2	708.3	717.4	726.6	735.7	744.8
120°	575.3	599.2	623.1	647.0	655.9	664.8	673.7	682.6	691.4	700.3	709.2
122.5°	543.0	566.0	589.0	612.0	620.6	629.1	637.7	646.2	654.8	663.3	671.9
125°	509.0	531.0	553.0	575.0	583.3	591.7	600.0	608.3	616.7	625.0	633.3
127.5°	472.7	494.1	515.6	537.0	545.0	553.0	561.0	569.0	577.0	585.0	593.0
130°	434.0	455.7	477.3	499.0	506.6	514.1	521.7	529.2	536.8	544.3	551.9
132.5°	394.7	416.1	437.6	459.0	466.3	473.7	481.0	488.3	495.7	503.0	510.3
135°	355.0	376.0	397.0	418.0	425.0	432.0	439.0	446.0	453.0	460.0	467.0
137.5°	314.3	333.9	353.4	373.0	379.9	386.8	393.7	400.6	407.4	414.3	421.2
140°	271.7	289.1	306.6	324.0	331.2	338.4	345.7	352.9	360.1	367.3	374.6
142.5°	231.0	246.3	261.7	277.0	284.6	292.1	299.7	307.2	314.8	322.3	329.9
145°	192.3	205.6	218.8	232.0	240.0	248.0	256.0	264.0	272.0	280.0	288.0
147.5°	157.7	168.8	179.9	191.0	199.1	207.2	215.3	223.4	231.6	239.7	247.8
150°	125.7	135.1	144.6	154.0	161.6	169.1	176.7	184.2	191.8	199.3	206.9
152.5°	96.7	104.4	112.2	120.0	127.0	134.0	141.0	148.0	155.0	162.0	169.0
155°	69.7	75.8	81.9	88.0	94.4	100.9	107.3	113.8	120.2	126.7	133.1
157.5°	47.3	51.9	56.4	61.0	66.4	71.9	77.3	82.8	88.2	93.7	99.1
160°	28.3	31.2	34.1	37.0	41.3	45.7	50.0	54.3	58.7	63.0	67.3
162.5°	14.0	15.7	17.3	19.0	22.0	25.0	28.0	31.0	34.0	37.0	40.0
165°	5.0	5.7	6.3	7.0	8.8	10.6	12.3	14.1	15.9	17.7	19.4
167.5°	0.7	0.8	0.9	1.0	1.7	2.3	3.0	3.7	4.3	5.0	5.7
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	675.0	675.0
2.5°	685.6	685.0
5°	705.9	706.0
7.5°	722.9	723.0
10°	741.7	742.0
12.5°	764.1	765.0
15°	791.1	793.0
17.5°	819.9	822.0
20°	850.3	853.0
22.5°	879.9	883.0
25°	907.6	911.0
27.5°	936.0	940.0
30°	963.3	968.0
32.5°	990.8	996.0
35°	1018.1	1024.0
37.5°	1044.4	1051.0
40°	1070.6	1077.9
42.5°	1096.9	1104.9
45°	1123.0	1131.9
47.5°	1149.3	1158.9
50°	1173.6	1183.9
52.5°	1197.8	1208.9
55°	1219.2	1230.9
57.5°	1238.6	1250.9
60°	1254.1	1266.9
62.5°	1265.7	1278.9
65°	1272.6	1285.9
67.5°	1275.5	1288.9
70°	1273.3	1286.9
72.5°	1265.3	1278.9
75°	1251.5	1264.9
77.5°	1230.6	1243.9
80°	1205.7	1218.9
82.5°	1175.8	1188.9
85°	1144.1	1156.9
87.5°	1110.2	1122.9
90°	1076.5	1088.9
92.5°	1046.9	1058.9
95°	1019.7	1031.0
97.5°	991.7	1003.0
100°	964.1	975.0
102.5°	937.4	948.0
105°	910.7	921.0
107.5°	882.8	893.0
110°	854.0	864.0



TEST NUMBER: P201355

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	821.3	831.0
115°	788.7	798.0
117.5°	753.9	763.0
120°	718.1	727.0
122.5°	680.4	689.0
125°	641.7	650.0
127.5°	601.0	609.0
130°	559.4	567.0
132.5°	517.7	525.0
135°	474.0	481.0
137.5°	428.1	435.0
140°	381.8	389.0
142.5°	337.4	345.0
145°	296.0	304.0
147.5°	255.9	264.0
150°	214.4	222.0
152.5°	176.0	183.0
155°	139.6	146.0
157.5°	104.6	110.0
160°	71.7	76.0
162.5°	43.0	46.0
165°	21.2	23.0
167.5°	6.3	7.0
170°	0.0	0.0
172.5°	0.0	0.0
175°	0.0	0.0
177.5°	0.0	0.0
180°	0.0	0.0

(END OF REPORT)