

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: P201339

Luminaire Tested: **4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P201339  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28234)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U  
Description: 4 ft. Low Bay Linear, 6000 lm, Frst Asym lens, 3.5K  
Light Source: (308) 3500K CCT, 80 CRI LEDS  
2UT217098A8350C, 2UT217056A8350B  
Ballast/Driver: OSRAM  
OT50W0620CC, OT30W0400CC

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6429.8 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Spacing Criteria (0/90/45): 2.02 / 1.17 / 1.78  
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.17' x H: 0.21')  
CIE Type: Semi-Direct

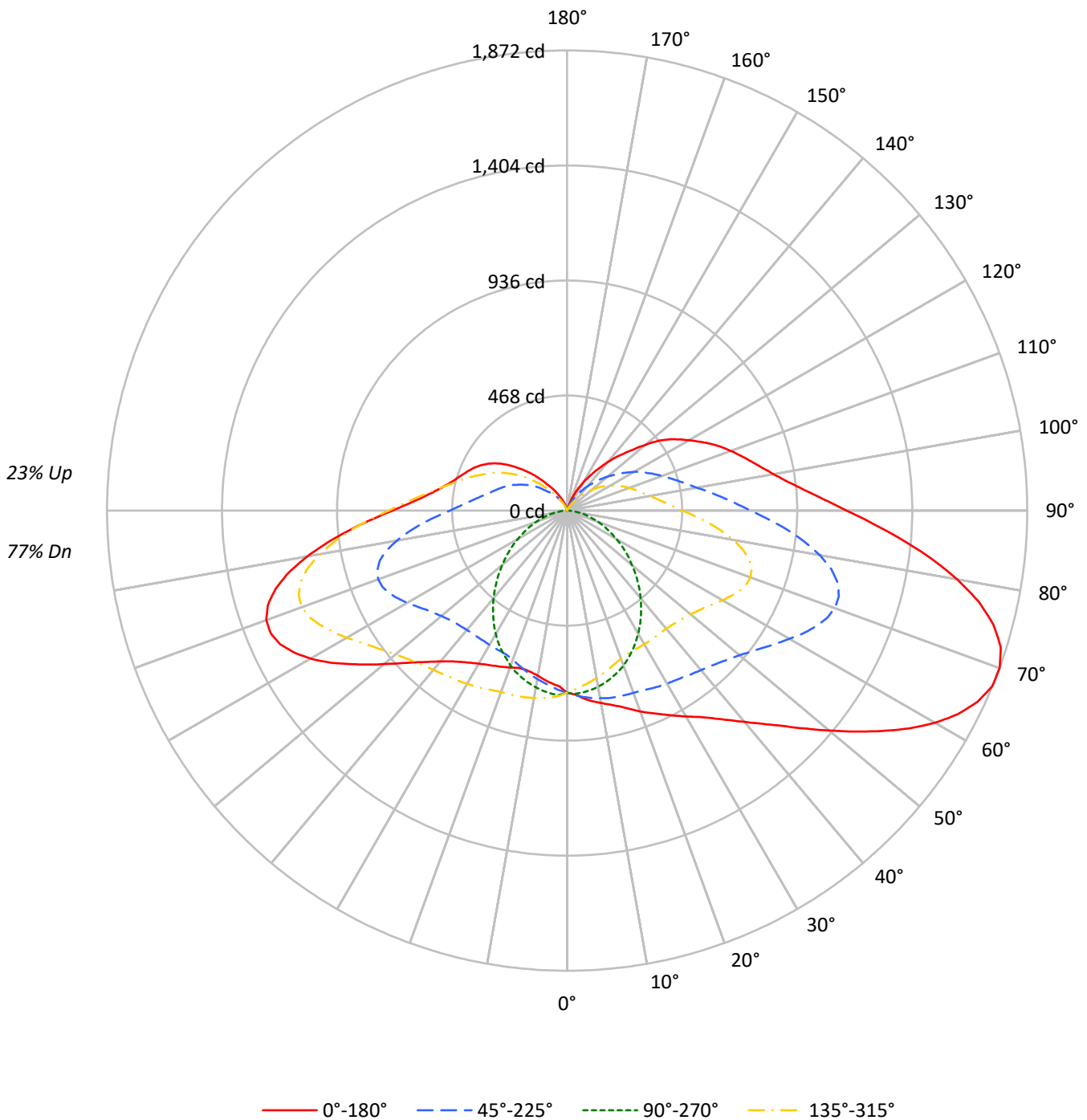
Input Watts (W): 46.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	77
1	98	90	84	78	92	86	80	75	77	72	68	69	65	62	62	59	56	52
2	86	75	66	59	81	71	63	56	64	57	51	57	51	46	50	46	42	38
3	77	64	54	46	72	61	51	44	54	46	40	48	42	36	42	37	33	29
4	70	55	45	37	65	52	43	35	47	39	32	41	35	29	37	31	26	23
5	63	49	38	31	59	46	37	29	41	33	27	37	30	24	32	27	22	19
6	58	43	33	26	54	41	32	25	37	29	23	33	26	21	29	23	19	16
7	54	39	29	22	50	37	28	21	33	25	20	29	23	18	26	20	16	14
8	50	35	26	19	47	33	25	19	30	22	17	27	20	16	24	18	14	12
9	46	32	23	17	43	30	22	16	27	20	15	25	18	14	22	17	12	10
10	43	29	21	15	41	28	20	15	25	18	13	23	17	12	20	15	11	9

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

	0°	90°	180°	270°
0°	11934	11934	11934	11934
5°	11190	11956	10298	12036
10°	10664	11799	9154	11847
15°	10313	11568	8361	11616
20°	10264	11284	8016	11316
25°	10284	10901	7840	10919
30°	10463	10452	7781	10488
35°	10832	9932	7895	9951
40°	11537	9374	8237	9394
45°	12566	8769	8858	8769
50°	14049	8111	9804	8134
55°	15803	7539	11001	7539
60°	17628	6773	12297	6832
65°	19127	6164	13373	6199
70°	19947	5495	13876	5495
75°	19797	4687	13529	4687
80°	18545	3676	12351	3748
85°	16607	2400	10724	2516



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.3	1.1
10°-20°	205.0	3.2
20°-30°	330.8	5.1
30°-40°	448.8	7.0
40°-50°	577.3	9.0
50°-60°	740.1	11.5
60°-70°	905.1	14.1
70°-80°	922.5	14.3
80°-90°	719.8	11.2
90°-100°	501.4	7.8
100°-110°	374.0	5.8
110°-120°	280.7	4.4
120°-130°	190.4	3.0
130°-140°	104.7	1.6
140°-150°	44.5	0.7
150°-160°	13.1	0.2
160°-170°	1.2	0.0
170°-180°	0.0	0.0
0°-30°	606.1	9.4
0°-40°	1054.9	16.4
0°-60°	2372.3	36.9
0°-90°	4919.8	76.5
90°-120°	1156.2	18.0
90°-150°	1495.7	23.3
90°-180°	1510.0	23.5
0°-180°	6429.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	741	741	741	741	741	
5°	767	742	706	748	767	74
15°	824	703	668	706	824	236
25°	914	628	697	629	914	425
35°	1031	523	751	524	1031	653
45°	1238	405	873	405	1238	968
55°	1563	288	1088	288	1563	1404
65°	1842	180	1288	181	1842	1814
75°	1796	90	1227	90	1796	1877
85°	1369	21	884	22	1369	1169
90°	1136	0	709	0	1136	625
95°	967	0	593	0	967	767
105°	774	0	476	0	774	822
115°	643	0	415	1	643	638
125°	506	0	333	1	506	451
135°	330	0	218	1	330	260
145°	190	0	116	1	190	122
155°	84	0	53	1	84	41
165°	10	0	9	1	10	4
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P201339

CATALOG NUMBER: 4LBLEDD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6
2.5°	749.5	749.4	749.3	749.2	749.1	748.9	748.8	748.7	748.6	748.5	748.8
5°	767.2	766.5	765.9	765.2	764.6	763.9	763.3	762.6	762.0	761.3	761.3
7.5°	782.0	781.0	780.0	779.1	778.1	777.1	776.1	775.2	774.2	773.2	772.8
10°	794.9	793.6	792.3	790.9	789.6	788.3	787.0	785.6	784.3	783.0	782.1
12.5°	808.7	807.2	805.6	804.1	802.6	801.0	799.5	798.0	796.4	794.9	793.4
15°	824.5	822.7	821.0	819.2	817.5	815.7	814.0	812.2	810.5	808.7	806.0
17.5°	846.2	843.8	841.4	839.0	836.6	834.1	831.7	829.3	826.9	824.5	820.3
20°	869.9	866.7	863.5	860.4	857.2	854.0	850.8	847.7	844.5	841.3	835.5
22.5°	891.7	887.9	884.0	880.2	876.3	872.5	868.6	864.8	860.9	857.1	849.9
25°	914.4	910.2	906.0	901.9	897.7	893.5	889.3	885.2	881.0	876.8	868.2
27.5°	940.0	935.2	930.4	925.5	920.7	915.9	911.1	906.2	901.4	896.6	886.6
30°	966.7	961.3	955.9	950.6	945.2	939.8	934.4	929.1	923.7	918.3	906.6
32.5°	995.3	989.0	982.8	976.5	970.3	964.0	957.8	951.5	945.3	939.0	925.6
35°	1030.9	1023.5	1016.2	1008.8	1001.5	994.1	986.8	979.4	972.1	964.7	949.3
37.5°	1073.3	1064.7	1056.2	1047.6	1039.1	1030.5	1022.0	1013.4	1004.9	996.3	978.5
40°	1121.7	1111.8	1102.0	1092.1	1082.2	1072.4	1062.5	1052.6	1042.8	1032.9	1012.3
42.5°	1176.0	1164.7	1153.4	1142.1	1130.8	1119.5	1108.2	1096.9	1085.6	1074.3	1050.4
45°	1238.2	1225.5	1212.8	1200.0	1187.3	1174.6	1161.9	1149.1	1136.4	1123.7	1096.1
47.5°	1312.3	1297.7	1283.1	1268.5	1253.9	1239.4	1224.8	1210.2	1195.6	1181.0	1149.1
50°	1392.3	1375.8	1359.4	1342.9	1326.5	1310.0	1293.6	1277.1	1260.7	1244.2	1207.7
52.5°	1476.2	1458.3	1440.4	1422.6	1404.7	1386.8	1368.9	1351.1	1333.2	1315.3	1273.8
55°	1563.1	1543.9	1524.7	1505.5	1486.3	1467.1	1447.9	1428.7	1409.5	1390.3	1343.9
57.5°	1649.0	1628.8	1608.6	1588.4	1568.2	1548.1	1527.9	1507.7	1487.5	1467.3	1416.2
60°	1727.0	1706.6	1686.2	1665.8	1645.4	1625.0	1604.6	1584.2	1563.8	1543.4	1487.9
62.5°	1793.2	1773.0	1752.8	1732.6	1712.4	1692.3	1672.1	1651.9	1631.7	1611.5	1552.7
65°	1841.6	1822.2	1802.8	1783.3	1763.9	1744.5	1725.1	1705.6	1686.2	1666.8	1605.6
67.5°	1871.2	1852.4	1833.7	1814.9	1796.1	1777.4	1758.6	1739.8	1721.1	1702.3	1640.2
70°	1872.2	1854.9	1837.5	1820.2	1802.9	1785.5	1768.2	1750.9	1733.5	1716.2	1654.3
72.5°	1849.5	1832.9	1816.4	1799.8	1783.2	1766.7	1750.1	1733.5	1717.0	1700.4	1640.3
75°	1796.1	1780.4	1764.7	1749.0	1733.3	1717.7	1702.0	1686.3	1670.6	1654.9	1597.6
77.5°	1715.2	1700.3	1685.4	1670.4	1655.5	1640.6	1625.7	1610.7	1595.8	1580.9	1527.6
80°	1611.5	1597.5	1583.4	1569.4	1555.3	1541.3	1527.2	1513.2	1499.1	1485.1	1436.1
82.5°	1494.0	1480.7	1467.4	1454.2	1440.9	1427.6	1414.3	1401.1	1387.8	1374.5	1330.1
85°	1368.6	1356.2	1343.8	1331.4	1319.0	1306.6	1294.2	1281.8	1269.4	1257.0	1217.3
87.5°	1247.1	1235.1	1223.2	1211.2	1199.3	1187.3	1175.4	1163.4	1151.5	1139.5	1104.0
90°	1136.5	1125.3	1114.1	1102.9	1091.7	1080.6	1069.4	1058.2	1047.0	1035.8	1003.5
92.5°	1043.7	1033.3	1022.9	1012.4	1002.0	991.6	981.2	970.7	960.3	949.9	920.4
95°	966.7	956.8	946.9	937.1	927.2	917.3	907.4	897.6	887.7	877.8	850.3
97.5°	902.5	893.0	883.4	873.9	864.3	854.8	845.2	835.7	826.1	816.6	790.5
100°	852.2	842.9	833.5	824.2	814.9	805.5	796.2	786.9	777.5	768.2	742.3
102.5°	809.7	800.4	791.1	781.7	772.4	763.1	753.8	744.4	735.1	725.8	700.6
105°	774.1	764.8	755.5	746.1	736.8	727.5	718.2	708.8	699.5	690.2	665.4
107.5°	741.6	732.4	723.2	713.9	704.7	695.5	686.3	677.0	667.8	658.6	634.1
110°	709.0	699.9	690.8	681.7	672.6	663.4	654.3	645.2	636.1	627.0	603.1



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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°	677.4	668.2	659.0	649.7	640.5	631.3	622.1	612.8	603.6	594.4	571.3
115°	642.8	633.7	624.6	615.5	606.4	597.3	588.2	579.1	570.0	560.9	538.7
117.5°	606.3	597.7	589.2	580.6	572.1	563.5	555.0	546.4	537.9	529.3	508.3
120°	571.7	563.6	555.5	547.4	539.3	531.1	523.0	514.9	506.8	498.7	478.3
122.5°	539.1	531.2	523.3	515.4	507.5	499.6	491.7	483.8	475.9	468.0	448.0
125°	505.6	497.8	490.0	482.2	474.4	466.7	458.9	451.1	443.3	435.5	416.2
127.5°	465.1	457.6	450.2	442.7	435.2	427.8	420.3	412.8	405.4	397.9	380.0
130°	416.7	410.1	403.5	397.0	390.4	383.8	377.2	370.7	364.1	357.5	341.7
132.5°	370.3	364.7	359.1	353.5	347.9	342.3	336.7	331.1	325.5	319.9	305.7
135°	329.8	325.1	320.4	315.6	310.9	306.2	301.5	296.7	292.0	287.3	274.4
137.5°	294.3	289.9	285.5	281.1	276.7	272.4	268.0	263.6	259.2	254.8	243.1
140°	258.7	254.4	250.1	245.9	241.6	237.3	233.0	228.8	224.5	220.2	210.0
142.5°	221.2	217.8	214.4	211.0	207.6	204.2	200.8	197.4	194.0	190.6	181.6
145°	189.6	186.6	183.7	180.7	177.7	174.8	171.8	168.8	165.9	162.9	155.0
147.5°	160.0	157.4	154.7	152.1	149.5	146.8	144.2	141.6	138.9	136.3	129.5
150°	132.3	130.1	127.9	125.7	123.5	121.4	119.2	117.0	114.8	112.6	106.7
152.5°	107.6	105.6	103.7	101.7	99.7	97.8	95.8	93.8	91.9	89.9	84.8
155°	83.9	82.3	80.6	79.0	77.3	75.7	74.0	72.4	70.7	69.1	64.7
157.5°	61.2	59.9	58.6	57.3	56.0	54.6	53.3	52.0	50.7	49.4	45.9
160°	41.5	40.3	39.1	37.9	36.7	35.4	34.2	33.0	31.8	30.6	28.3
162.5°	22.7	22.0	21.4	20.7	20.1	19.4	18.8	18.1	17.5	16.8	15.4
165°	9.9	9.6	9.2	8.9	8.6	8.2	7.9	7.6	7.2	6.9	6.2
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



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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°	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6
2.5°	749.1	749.5	749.8	750.1	750.4	750.8	751.1	751.4	750.2	749.0	747.8
5°	761.3	761.3	761.3	761.3	761.3	761.3	761.3	761.3	759.3	757.3	755.4
7.5°	772.3	771.9	771.4	771.0	770.5	770.1	769.6	769.2	766.5	763.7	761.0
10°	781.2	780.4	779.5	778.6	777.7	776.9	776.0	775.1	771.5	767.9	764.2
12.5°	791.8	790.3	788.8	787.2	785.7	784.2	782.6	781.1	776.4	771.7	766.9
15°	803.2	800.5	797.7	795.0	792.2	789.5	786.7	784.0	778.4	772.8	767.2
17.5°	816.2	812.0	807.8	803.7	799.5	795.3	791.2	787.0	780.3	773.6	766.9
20°	829.7	823.9	818.1	812.2	806.4	800.6	794.8	789.0	781.0	773.0	765.0
22.5°	842.6	835.4	828.1	820.9	813.6	806.4	799.1	791.9	782.4	772.8	763.3
25°	859.7	851.1	842.6	834.0	825.5	816.9	808.4	799.8	788.0	776.1	764.3
27.5°	876.6	866.6	856.6	846.7	836.7	826.7	816.7	806.7	792.6	778.4	764.3
30°	894.8	883.1	871.4	859.6	847.9	836.2	824.4	812.7	796.1	779.6	763.0
32.5°	912.2	898.9	885.5	872.1	858.7	845.4	832.0	818.6	799.7	780.8	762.0
35°	934.0	918.6	903.3	887.9	872.6	857.2	841.9	826.5	805.1	783.7	762.3
37.5°	960.8	943.0	925.2	907.5	889.7	871.9	854.2	836.4	812.5	788.6	764.6
40°	991.6	971.0	950.4	929.7	909.1	888.5	867.8	847.2	820.8	794.3	767.9
42.5°	1026.5	1002.6	978.7	954.7	930.8	906.9	883.0	859.1	830.0	800.9	771.9
45°	1068.4	1040.8	1013.1	985.5	957.8	930.2	902.5	874.9	842.7	810.6	778.4
47.5°	1117.1	1085.2	1053.3	1021.3	989.4	957.5	925.5	893.6	858.1	822.5	787.0
50°	1171.1	1134.6	1098.0	1061.5	1024.9	988.4	951.8	915.3	876.1	837.0	797.8
52.5°	1232.3	1190.9	1149.4	1107.9	1066.4	1025.0	983.5	942.0	898.7	855.3	812.0
55°	1297.5	1251.1	1204.7	1158.2	1111.8	1065.4	1019.0	972.6	924.9	877.2	829.4
57.5°	1365.1	1313.9	1262.8	1211.7	1160.6	1109.4	1058.3	1007.2	954.6	902.1	849.5
60°	1432.4	1376.8	1321.3	1265.8	1210.3	1154.7	1099.2	1043.7	986.3	928.9	871.6
62.5°	1493.9	1435.1	1376.3	1317.4	1258.6	1199.8	1141.0	1082.2	1019.8	957.4	894.9
65°	1544.4	1483.1	1421.9	1360.7	1299.5	1238.2	1177.0	1115.8	1048.8	981.7	914.7
67.5°	1578.1	1516.0	1453.9	1391.8	1329.7	1267.6	1205.5	1143.4	1072.2	1001.0	929.8
70°	1592.4	1530.5	1468.6	1406.8	1344.9	1283.0	1221.1	1159.2	1085.0	1010.9	936.7
72.5°	1580.1	1520.0	1459.9	1399.7	1339.6	1279.5	1219.3	1159.2	1083.4	1007.6	931.8
75°	1540.4	1483.1	1425.8	1368.6	1311.3	1254.0	1196.8	1139.5	1064.0	988.5	913.0
77.5°	1474.3	1420.9	1367.6	1314.3	1261.0	1207.6	1154.3	1101.0	1027.6	954.2	880.8
80°	1387.0	1338.0	1288.9	1239.9	1190.8	1141.8	1092.7	1043.7	974.0	904.4	834.7
82.5°	1285.6	1241.2	1196.8	1152.3	1107.9	1063.5	1019.0	974.6	909.6	844.7	779.7
85°	1177.6	1137.9	1098.2	1058.4	1018.7	979.0	939.3	899.6	839.9	780.2	720.5
87.5°	1068.4	1032.9	997.3	961.8	926.2	890.7	855.1	819.6	765.6	711.6	657.7
90°	971.3	939.0	906.8	874.5	842.3	810.0	777.8	745.5	696.5	647.4	598.4
92.5°	890.9	861.4	831.9	802.3	772.8	743.3	713.8	684.3	639.6	595.0	550.3
95°	822.7	795.2	767.7	740.1	712.6	685.1	657.5	630.0	589.0	547.9	506.9
97.5°	764.4	738.3	712.2	686.0	659.9	633.8	607.7	581.6	543.4	505.2	467.1
100°	716.4	690.5	664.6	638.8	612.9	587.0	561.1	535.2	500.0	464.8	429.5
102.5°	675.3	650.1	624.9	599.6	574.4	549.2	523.9	498.7	465.3	432.0	398.6
105°	640.6	615.8	591.0	566.3	541.5	516.7	491.9	467.1	435.3	403.5	371.6
107.5°	609.7	585.2	560.7	536.3	511.8	487.3	462.9	438.4	407.9	377.4	346.9
110°	579.2	555.3	531.4	507.4	483.5	459.6	435.7	411.8	382.5	353.2	323.9





TEST NUMBER: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	548.1	525.0	501.8	478.7	455.5	432.4	409.2	386.1	358.2	330.4	302.5
115°	516.6	494.4	472.2	450.1	427.9	405.7	383.6	361.4	334.7	308.1	281.4
117.5°	487.4	466.4	445.5	424.5	403.6	382.6	361.7	340.7	315.1	289.6	264.0
120°	457.9	437.5	417.1	396.6	376.2	355.8	335.4	315.0	291.1	267.2	243.2
122.5°	428.1	408.1	388.1	368.2	348.2	328.2	308.3	288.3	266.3	244.2	222.2
125°	396.9	377.6	358.3	338.9	319.6	300.3	281.0	261.7	241.4	221.1	200.8
127.5°	362.1	344.3	326.4	308.5	290.6	272.8	254.9	237.0	218.3	199.7	181.0
130°	325.9	310.1	294.3	278.5	262.7	246.9	231.1	215.3	198.1	180.8	163.6
132.5°	291.6	277.4	263.3	249.1	235.0	220.8	206.7	192.5	176.7	160.9	145.1
135°	261.4	248.5	235.5	222.6	209.6	196.7	183.7	170.8	156.5	142.3	128.0
137.5°	231.3	219.6	207.8	196.1	184.3	172.6	160.8	149.1	136.3	123.4	110.6
140°	199.8	189.6	179.4	169.2	159.0	148.8	138.6	128.4	116.9	105.4	93.8
142.5°	172.6	163.6	154.6	145.6	136.6	127.6	118.6	109.6	99.4	89.2	79.0
145°	147.1	139.2	131.3	123.4	115.5	107.6	99.7	91.8	82.9	74.0	65.1
147.5°	122.7	115.9	109.1	102.2	95.4	88.6	81.8	75.0	67.4	59.9	52.3
150°	100.7	94.8	88.9	82.9	77.0	71.1	65.1	59.2	53.1	46.9	40.8
152.5°	79.8	74.7	69.7	64.6	59.6	54.5	49.5	44.4	39.7	35.0	30.3
155°	60.3	55.9	51.5	47.2	42.8	38.4	34.0	29.6	26.4	23.2	20.1
157.5°	42.4	38.9	35.4	31.8	28.3	24.8	21.3	17.8	15.8	13.8	11.9
160°	26.0	23.7	21.4	19.1	16.8	14.5	12.2	9.9	8.8	7.7	6.6
162.5°	13.9	12.5	11.1	9.6	8.2	6.8	5.3	3.9	3.5	3.0	2.6
165°	5.6	4.9	4.3	3.6	3.0	2.3	1.7	1.0	0.9	0.8	0.7
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: P201339

CATALOG NUMBER: 4LBLELD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6
2.5°	746.6	745.4	744.2	743.0	741.8	740.6	741.3	741.9	742.6	743.2	743.9
5°	753.4	751.4	749.4	747.5	745.5	743.5	743.4	743.3	743.2	743.1	742.9
7.5°	758.2	755.5	752.7	750.0	747.2	744.5	743.6	742.7	741.9	741.0	740.1
10°	760.6	757.0	753.4	749.7	746.1	742.5	740.9	739.2	737.6	735.9	734.3
12.5°	762.2	757.5	752.8	748.0	743.3	738.6	736.2	733.8	731.4	729.0	726.5
15°	761.6	756.1	750.5	744.9	739.3	733.7	730.3	726.9	723.5	720.1	716.7
17.5°	760.2	753.5	746.8	740.1	733.4	726.7	722.4	718.1	713.9	709.6	705.3
20°	757.0	748.9	740.9	732.9	724.9	716.9	711.7	706.6	701.4	696.3	691.1
22.5°	753.7	744.2	734.6	725.1	715.5	706.0	699.7	693.5	687.2	681.0	674.7
25°	752.4	740.6	728.7	716.9	705.0	693.2	686.0	678.7	671.5	664.2	657.0
27.5°	750.1	736.0	721.8	707.7	693.5	679.4	670.9	662.5	654.0	645.6	637.1
30°	746.4	729.9	713.3	696.7	680.2	663.6	654.2	644.7	635.3	625.8	616.4
32.5°	743.1	724.2	705.3	686.5	667.6	648.7	637.8	627.0	616.1	605.3	594.4
35°	740.9	719.5	698.1	676.7	655.3	633.9	621.6	609.3	597.0	584.7	572.5
37.5°	740.7	716.8	692.9	668.9	645.0	621.1	606.9	592.8	578.6	564.5	550.3
40°	741.4	715.0	688.5	662.1	635.6	609.2	593.2	577.2	561.2	545.2	529.1
42.5°	742.8	713.7	684.6	655.6	626.5	597.4	579.4	561.4	543.4	525.4	507.5
45°	746.3	714.1	682.0	649.8	617.7	585.5	565.4	545.3	525.3	505.2	485.1
47.5°	751.4	715.9	680.3	644.8	609.2	573.7	551.6	529.6	507.5	485.5	463.4
50°	758.6	719.5	680.3	641.1	602.0	562.8	538.4	514.1	489.7	465.4	441.0
52.5°	768.7	725.3	682.0	638.7	595.3	552.0	526.0	500.0	474.0	448.0	422.0
55°	781.7	734.0	686.3	638.5	590.8	543.1	514.8	486.5	458.2	429.9	401.5
57.5°	797.0	744.4	691.9	639.3	586.8	534.2	503.8	473.4	443.0	412.6	382.3
60°	814.2	756.8	699.4	642.1	584.7	527.3	494.2	461.0	427.9	394.8	361.6
62.5°	832.5	770.1	707.7	645.2	582.8	520.4	485.4	450.4	415.4	380.4	345.4
65°	847.7	780.6	713.6	646.6	579.5	512.5	475.5	438.5	401.6	364.6	327.6
67.5°	858.6	787.4	716.2	645.0	573.8	502.6	464.1	425.6	387.1	348.6	310.0
70°	862.5	788.4	714.2	640.0	565.9	491.7	451.9	412.1	372.2	332.4	292.6
72.5°	856.0	780.1	704.3	628.5	552.7	476.9	436.2	395.5	354.8	314.1	273.4
75°	837.5	762.1	686.6	611.1	535.6	460.1	419.0	377.8	336.7	295.6	254.4
77.5°	807.4	734.0	660.6	587.2	513.8	440.4	399.3	358.1	317.0	275.8	234.7
80°	765.0	695.4	625.7	556.0	486.4	416.7	376.1	335.5	294.9	254.3	213.7
82.5°	714.8	649.8	584.9	519.9	455.0	390.0	350.5	311.0	271.5	232.0	192.6
85°	660.8	601.2	541.5	481.8	422.1	362.4	324.4	286.5	248.5	210.5	172.6
87.5°	603.7	549.7	495.7	441.8	387.8	333.8	297.6	261.4	225.2	189.0	152.7
90°	549.3	500.3	451.2	402.2	353.1	304.1	270.3	236.5	202.7	168.9	135.2
92.5°	505.7	461.0	416.4	371.7	327.1	282.4	251.0	219.6	188.3	156.9	125.5
95°	465.9	424.8	383.8	342.8	301.7	260.7	231.7	202.8	173.8	144.8	115.9
97.5°	428.9	390.7	352.5	314.4	276.2	238.0	211.6	185.1	158.7	132.2	105.8
100°	394.3	359.1	323.9	288.6	253.4	218.2	194.0	169.7	145.5	121.2	97.0
102.5°	365.3	331.9	298.6	265.2	231.9	198.5	176.4	154.4	132.3	110.3	88.2
105°	339.8	308.0	276.2	244.3	212.5	180.7	160.6	140.5	120.5	100.4	80.3
107.5°	316.4	285.9	255.4	224.9	194.4	163.9	145.7	127.5	109.3	91.1	72.8
110°	294.6	265.3	236.0	206.7	177.4	148.1	131.6	115.2	98.7	82.3	65.8



TEST NUMBER: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	274.6	246.8	218.9	191.0	163.2	135.3	120.3	105.2	90.2	75.2	60.1
115°	254.8	228.1	201.5	174.8	148.2	121.5	108.0	94.5	81.0	67.5	54.0
117.5°	238.4	212.9	187.3	161.7	136.2	110.6	98.3	86.0	73.7	61.4	49.2
120°	219.3	195.4	171.5	147.5	123.6	99.7	88.6	77.5	66.5	55.4	44.3
122.5°	200.1	178.1	156.0	134.0	111.9	89.9	79.9	69.9	59.9	49.9	40.0
125°	180.5	160.2	139.9	119.6	99.3	79.0	70.2	61.4	52.7	43.9	35.1
127.5°	162.4	143.7	125.1	106.4	87.8	69.1	61.4	53.7	46.1	38.4	30.7
130°	146.4	129.1	111.9	94.7	77.4	60.2	53.5	46.8	40.1	33.4	26.8
132.5°	129.3	113.6	97.8	82.0	66.2	50.4	44.8	39.2	33.6	28.0	22.4
135°	113.8	99.5	85.3	71.0	56.8	42.5	37.8	33.1	28.3	23.6	18.9
137.5°	97.8	84.9	72.1	59.3	46.4	33.6	29.9	26.1	22.4	18.7	14.9
140°	82.3	70.8	59.3	47.7	36.2	24.7	22.0	19.2	16.5	13.7	11.0
142.5°	68.8	58.6	48.4	38.2	28.0	17.8	15.8	13.8	11.9	9.9	7.9
145°	56.2	47.4	38.5	29.6	20.7	11.8	10.5	9.2	7.9	6.6	5.2
147.5°	44.7	37.2	29.6	22.0	14.5	6.9	6.1	5.4	4.6	3.8	3.1
150°	34.6	28.5	22.3	16.2	10.0	3.9	3.5	3.0	2.6	2.2	1.7
152.5°	25.6	20.8	16.1	11.4	6.7	2.0	1.8	1.6	1.3	1.1	0.9
155°	16.9	13.7	10.5	7.4	4.2	1.0	0.9	0.8	0.7	0.6	0.4
157.5°	9.9	7.9	5.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	5.5	4.4	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.2	1.7	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.6	0.4	0.3	0.2	0.1	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: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6
2.5°	744.5	745.2	745.8	746.5	744.9	743.2	741.6	739.9	738.3	736.6	735.0
5°	742.8	742.7	742.6	742.5	740.4	738.3	736.3	734.2	732.1	730.0	728.0
7.5°	739.2	738.4	737.5	736.6	734.0	731.3	728.7	726.1	723.4	720.8	718.2
10°	732.6	731.0	729.3	727.7	724.7	721.8	718.8	715.9	712.9	710.0	707.0
12.5°	724.1	721.7	719.3	716.9	713.5	710.1	706.7	703.3	699.9	696.5	693.1
15°	713.3	709.9	706.5	703.1	699.6	696.1	692.6	689.1	685.5	682.0	678.5
17.5°	701.0	696.8	692.5	688.2	684.6	681.0	677.4	673.8	670.1	666.5	662.9
20°	686.0	680.8	675.7	670.5	666.8	663.0	659.3	655.6	651.8	648.1	644.4
22.5°	668.5	662.2	656.0	649.7	646.2	642.7	639.2	635.7	632.1	628.6	625.1
25°	649.7	642.5	635.2	628.0	624.7	621.4	618.1	614.8	611.6	608.3	605.0
27.5°	628.7	620.2	611.8	603.3	600.4	597.6	594.7	591.9	589.0	586.2	583.3
30°	606.9	597.5	588.0	578.6	576.0	573.3	570.7	568.1	565.4	562.8	560.2
32.5°	583.6	572.7	561.9	551.0	549.1	547.3	545.4	543.5	541.7	539.8	537.9
35°	560.2	547.9	535.6	523.3	522.3	521.3	520.4	519.4	518.4	517.4	516.5
37.5°	536.2	522.0	507.9	493.7	493.9	494.1	494.4	494.6	494.8	495.0	495.3
40°	513.1	497.1	481.1	465.1	466.7	468.4	470.0	471.7	473.3	475.0	476.6
42.5°	489.5	471.5	453.5	435.5	438.9	442.3	445.7	449.1	452.5	455.9	459.3
45°	465.0	445.0	424.9	404.8	410.1	415.3	420.6	425.9	431.1	436.4	441.7
47.5°	441.4	419.3	397.3	375.2	382.2	389.2	396.3	403.3	410.3	417.3	424.4
50°	416.7	392.3	368.0	343.6	352.7	361.8	370.9	380.0	389.2	398.3	407.4
52.5°	396.0	370.0	344.0	318.0	328.7	339.5	350.2	361.0	371.7	382.5	393.2
55°	373.2	344.9	316.6	288.3	301.0	313.8	326.5	339.2	352.0	364.7	377.4
57.5°	351.9	321.5	291.1	260.7	275.5	290.3	305.1	319.9	334.8	349.6	364.4
60°	328.5	295.4	262.2	229.1	246.2	263.3	280.4	297.5	314.7	331.8	348.9
62.5°	310.4	275.4	240.4	205.4	224.0	242.7	261.3	280.0	298.6	317.3	335.9
65°	290.6	253.7	216.7	179.7	200.0	220.3	240.6	260.9	281.2	301.5	321.8
67.5°	271.5	233.0	194.5	156.0	177.7	199.4	221.2	242.9	264.6	286.3	308.1
70°	252.8	212.9	173.1	133.3	156.1	178.9	201.8	224.6	247.4	270.2	293.1
72.5°	232.7	192.0	151.3	110.6	134.2	157.8	181.4	205.0	228.5	252.1	275.7
75°	213.3	172.2	131.0	89.9	113.9	137.9	162.0	186.0	210.0	234.0	258.1
77.5°	193.5	152.4	111.2	70.1	94.3	118.6	142.8	167.1	191.3	215.6	239.8
80°	173.1	132.5	91.9	51.3	75.4	99.6	123.7	147.9	172.0	196.2	220.3
82.5°	153.1	113.6	74.1	34.6	58.3	82.0	105.7	129.4	153.0	176.7	200.4
85°	134.6	96.6	58.7	20.7	43.3	65.9	88.5	111.1	133.7	156.3	178.9
87.5°	116.5	80.3	44.1	7.9	29.7	51.6	73.4	95.2	117.1	138.9	160.7
90°	101.4	67.6	33.8	0.0	20.5	41.0	61.5	82.0	102.6	123.1	143.6
92.5°	94.1	62.8	31.4	0.0	19.1	38.2	57.3	76.4	95.4	114.5	133.6
95°	86.9	57.9	29.0	0.0	17.8	35.6	53.3	71.1	88.9	106.7	124.4
97.5°	79.3	52.9	26.4	0.0	16.3	32.7	49.0	65.4	81.7	98.1	114.4
100°	72.7	48.5	24.2	0.0	15.1	30.3	45.4	60.6	75.7	90.9	106.0
102.5°	66.2	44.1	22.1	0.0	13.9	27.9	41.8	55.7	69.7	83.6	97.5
105°	60.2	40.2	20.1	0.0	12.7	25.4	38.2	50.9	63.6	76.3	89.1
107.5°	54.6	36.4	18.2	0.0	11.6	23.3	34.9	46.5	58.2	69.8	81.4
110°	49.4	32.9	16.5	0.0	10.6	21.3	31.9	42.6	53.2	63.9	74.5



TEST NUMBER: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	45.1	30.1	15.0	0.0	9.7	19.3	29.0	38.6	48.3	57.9	67.6
115°	40.5	27.0	13.5	0.0	8.6	17.1	25.7	34.2	42.8	51.3	59.9
117.5°	36.9	24.6	12.3	0.0	7.7	15.4	23.0	30.7	38.4	46.1	53.7
120°	33.2	22.2	11.1	0.0	6.9	13.8	20.7	27.6	34.6	41.5	48.4
122.5°	30.0	20.0	10.0	0.0	6.1	12.3	18.4	24.6	30.7	36.9	43.0
125°	26.3	17.6	8.8	0.0	5.5	11.0	16.5	22.0	27.4	32.9	38.4
127.5°	23.0	15.4	7.7	0.0	4.7	9.4	14.2	18.9	23.6	28.3	33.1
130°	20.1	13.4	6.7	0.0	3.9	7.9	11.8	15.8	19.7	23.7	27.6
132.5°	16.8	11.2	5.6	0.0	3.3	6.6	9.9	13.2	16.4	19.7	23.0
135°	14.2	9.4	4.7	0.0	2.6	5.3	7.9	10.5	13.2	15.8	18.4
137.5°	11.2	7.5	3.7	0.0	2.0	4.0	5.9	7.9	9.9	11.9	13.8
140°	8.2	5.5	2.7	0.0	1.4	2.8	4.3	5.7	7.1	8.5	10.0
142.5°	5.9	4.0	2.0	0.0	0.9	1.8	2.6	3.5	4.4	5.3	6.1
145°	3.9	2.6	1.3	0.0	0.5	1.1	1.6	2.2	2.7	3.3	3.8
147.5°	2.3	1.5	0.8	0.0	0.4	0.9	1.3	1.7	2.2	2.6	3.0
150°	1.3	0.9	0.4	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.3
152.5°	0.7	0.4	0.2	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6
155°	0.3	0.2	0.1	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8
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: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6
2.5°	733.3	731.7	731.3	730.8	730.4	729.9	729.5	729.0	728.6	728.1	727.7
5°	725.9	723.8	722.9	722.0	721.2	720.3	719.4	718.5	717.7	716.8	715.9
7.5°	715.5	712.9	711.9	710.9	709.9	708.9	708.0	707.0	706.0	705.0	704.0
10°	704.1	701.1	700.0	698.9	697.8	696.7	695.6	694.5	693.4	692.3	691.2
12.5°	689.7	686.3	685.3	684.3	683.3	682.3	681.4	680.4	679.4	678.4	677.4
15°	675.0	671.5	670.7	669.9	669.2	668.4	667.6	666.8	666.1	665.3	664.5
17.5°	659.3	655.7	655.3	654.8	654.4	653.9	653.5	653.0	652.6	652.1	651.7
20°	640.6	636.9	637.3	637.8	638.2	638.6	639.1	639.5	639.9	640.4	640.8
22.5°	621.6	618.1	619.7	621.4	623.0	624.7	626.3	628.0	629.6	631.3	632.9
25°	601.7	598.4	601.8	605.2	608.6	612.0	615.4	618.8	622.2	625.6	629.0
27.5°	580.5	577.6	583.3	589.0	594.7	600.4	606.2	611.9	617.6	623.3	629.0
30°	557.5	554.9	563.0	571.1	579.3	587.4	595.5	603.6	611.8	619.9	628.0
32.5°	536.1	534.2	544.5	554.8	565.1	575.4	585.8	596.1	606.4	616.7	627.0
35°	515.5	514.5	526.9	539.3	551.7	564.1	576.4	588.8	601.2	613.6	626.0
37.5°	495.5	495.7	510.2	524.7	539.1	553.6	568.1	582.6	597.0	611.5	626.0
40°	478.3	479.9	496.4	512.8	529.3	545.7	562.2	578.6	595.1	611.5	628.0
42.5°	462.7	466.1	484.4	502.7	521.1	539.4	557.7	576.0	594.4	612.7	631.0
45°	446.9	452.2	472.7	493.2	513.8	534.3	554.8	575.3	595.9	616.4	636.9
47.5°	431.4	438.4	461.3	484.3	507.2	530.1	553.1	576.0	598.9	621.9	644.8
50°	416.5	425.6	451.2	476.7	502.3	527.9	553.4	579.0	604.6	630.1	655.7
52.5°	404.0	414.7	443.0	471.3	499.6	527.9	556.3	584.6	612.9	641.2	669.5
55°	390.2	402.9	434.4	465.9	497.4	528.9	560.3	591.8	623.3	654.8	686.3
57.5°	379.2	394.0	428.8	463.6	498.3	533.1	567.9	602.7	637.4	672.2	707.0
60°	366.0	383.1	421.6	460.1	498.6	537.1	575.7	614.2	652.7	691.2	729.7
62.5°	354.6	373.2	415.3	457.5	499.6	541.7	583.9	626.0	668.1	710.3	752.4
65°	342.1	362.4	408.0	453.7	499.3	545.0	590.6	636.3	681.9	727.6	773.2
67.5°	329.8	351.5	400.0	448.5	497.0	545.5	594.0	642.5	691.0	739.5	788.0
70°	315.9	338.7	389.3	439.9	490.4	541.0	591.6	642.2	692.7	743.3	793.9
72.5°	299.3	322.9	374.5	426.0	477.6	529.2	580.7	632.3	683.9	735.4	787.0
75°	282.1	306.1	357.2	408.3	459.5	510.6	561.7	612.8	664.0	715.1	766.2
77.5°	264.1	288.3	337.6	386.8	436.1	485.4	534.6	583.9	633.2	682.4	731.7
80°	244.5	268.6	314.9	361.2	407.5	453.8	500.1	546.4	592.7	639.0	685.3
82.5°	224.1	247.8	290.6	333.4	376.2	419.0	461.7	504.5	547.3	590.1	632.9
85°	201.5	224.1	263.4	302.7	341.9	381.2	420.5	459.8	499.0	538.3	577.6
87.5°	182.6	204.4	239.5	274.6	309.7	344.8	380.0	415.1	450.2	485.3	520.4
90°	164.1	184.6	216.1	247.6	279.1	310.6	342.0	373.5	405.0	436.5	468.0
92.5°	152.7	171.8	200.2	228.6	257.1	285.5	313.9	342.3	370.8	399.2	427.6
95°	142.2	160.0	186.1	212.2	238.3	264.4	290.6	316.7	342.8	368.9	395.0
97.5°	130.8	147.1	171.5	195.8	220.2	244.5	268.9	293.2	317.6	341.9	366.3
100°	121.2	136.3	159.1	181.9	204.8	227.6	250.4	273.2	296.1	318.9	341.7
102.5°	111.5	125.4	147.1	168.8	190.6	212.3	234.0	255.7	277.5	299.2	320.9
105°	101.8	114.5	135.4	156.2	177.1	197.9	218.8	239.6	260.5	281.3	302.2
107.5°	93.1	104.7	124.8	144.9	164.9	185.0	205.1	225.2	245.2	265.3	285.4
110°	85.2	95.8	115.1	134.4	153.7	173.0	192.4	211.7	231.0	250.3	269.6



TEST NUMBER: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	77.2	86.9	105.4	124.0	142.5	161.1	179.6	198.2	216.7	235.3	253.8
115°	68.4	77.0	94.6	112.1	129.7	147.2	164.8	182.3	199.9	217.4	235.0
117.5°	61.4	69.1	85.8	102.5	119.1	135.8	152.5	169.2	185.8	202.5	219.2
120°	55.3	62.2	77.8	93.4	108.9	124.5	140.1	155.7	171.2	186.8	202.4
122.5°	49.2	55.3	69.8	84.3	98.7	113.2	127.7	142.2	156.6	171.1	185.6
125°	43.9	49.4	62.7	76.0	89.2	102.5	115.8	129.1	142.3	155.6	168.9
127.5°	37.8	42.5	54.5	66.4	78.4	90.3	102.3	114.2	126.2	138.1	150.1
130°	31.6	35.5	45.9	56.4	66.8	77.2	87.7	98.1	108.5	119.0	129.4
132.5°	26.3	29.6	38.4	47.2	55.9	64.7	73.5	82.3	91.0	99.8	108.6
135°	21.1	23.7	31.4	39.1	46.7	54.4	62.1	69.8	77.4	85.1	92.8
137.5°	15.8	17.8	24.5	31.2	37.9	44.6	51.2	57.9	64.6	71.3	78.0
140°	11.4	12.8	18.6	24.4	30.3	36.1	41.9	47.7	53.6	59.4	65.2
142.5°	7.0	7.9	12.9	18.0	23.0	28.1	33.1	38.2	43.2	48.3	53.3
145°	4.4	4.9	9.1	13.3	17.4	21.6	25.8	30.0	34.1	38.3	42.5
147.5°	3.5	3.9	7.2	10.5	13.8	17.1	20.4	23.7	27.0	30.3	33.6
150°	2.7	3.0	5.5	8.0	10.6	13.1	15.6	18.1	20.7	23.2	25.7
152.5°	1.8	2.0	3.9	5.7	7.6	9.5	11.3	13.2	15.1	16.9	18.8
155°	0.9	1.0	2.2	3.4	4.6	5.8	7.0	8.2	9.4	10.6	11.8
157.5°	0.0	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.6	5.2	5.9
160°	0.0	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0
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: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6
2.5°	727.2	726.6	726.1	725.5	725.0	724.4	723.9	723.3	722.8	722.0	721.3
5°	715.1	714.4	713.6	712.8	712.1	711.3	710.5	709.8	709.0	708.7	708.3
7.5°	703.1	702.2	701.4	700.5	699.6	698.7	697.9	697.0	696.1	696.0	695.9
10°	690.5	689.9	689.2	688.6	687.9	687.3	686.6	686.0	685.3	685.0	684.6
12.5°	677.1	676.7	676.4	676.1	675.7	675.4	675.1	674.7	674.4	674.3	674.2
15°	664.6	664.7	664.8	664.9	665.1	665.2	665.3	665.4	665.5	665.8	666.2
17.5°	652.9	654.1	655.3	656.5	657.8	659.0	660.2	661.4	662.6	663.5	664.4
20°	643.5	646.3	649.0	651.8	654.5	657.3	660.0	662.8	665.5	667.0	668.6
22.5°	637.3	641.7	646.1	650.5	654.8	659.2	663.6	668.0	672.4	674.2	675.9
25°	634.6	640.2	645.8	651.4	657.0	662.6	668.2	673.8	679.4	681.4	683.3
27.5°	635.4	641.7	648.1	654.5	660.8	667.2	673.6	679.9	686.3	688.6	690.9
30°	635.2	642.5	649.7	657.0	664.2	671.5	678.7	686.0	693.2	696.1	698.9
32.5°	635.3	643.7	652.0	660.4	668.7	677.1	685.4	693.8	702.1	705.6	709.1
35°	635.7	645.3	655.0	664.6	674.3	683.9	693.6	703.2	712.9	717.2	721.5
37.5°	637.3	648.6	659.9	671.2	682.5	693.8	705.1	716.4	727.7	732.8	737.8
40°	641.1	654.1	667.2	680.2	693.3	706.3	719.4	732.4	745.5	751.6	757.8
42.5°	646.2	661.5	676.7	692.0	707.2	722.5	737.7	753.0	768.2	775.6	782.9
45°	654.6	672.2	689.9	707.6	725.2	742.9	760.6	778.2	795.9	804.5	813.0
47.5°	665.3	685.8	706.3	726.8	747.4	767.9	788.4	808.9	829.4	839.3	849.2
50°	679.5	703.3	727.1	750.9	774.7	798.5	822.3	846.1	869.9	881.2	892.5
52.5°	696.7	723.9	751.1	778.3	805.6	832.8	860.0	887.2	914.4	927.0	939.6
55°	717.2	748.2	779.1	810.0	841.0	871.9	902.8	933.8	964.7	978.4	992.1
57.5°	741.3	775.7	810.0	844.4	878.7	913.1	947.4	981.8	1016.1	1030.9	1045.7
60°	767.2	804.7	842.3	879.8	917.3	954.8	992.4	1029.9	1067.4	1082.7	1097.9
62.5°	792.7	832.9	873.2	913.5	953.7	994.0	1034.3	1074.5	1114.8	1129.9	1145.1
65°	815.4	857.7	899.9	942.1	984.4	1026.6	1068.8	1111.1	1153.3	1168.2	1183.1
67.5°	831.2	874.4	917.7	960.9	1004.1	1047.3	1090.6	1133.8	1177.0	1191.3	1205.5
70°	837.0	880.1	923.3	966.4	1009.5	1052.6	1095.8	1138.9	1182.0	1195.4	1208.8
72.5°	829.1	871.3	913.4	955.5	997.7	1039.8	1081.9	1124.1	1166.2	1178.5	1190.8
75°	806.3	846.3	886.4	926.4	966.5	1006.5	1046.6	1086.6	1126.7	1137.9	1149.1
77.5°	768.9	806.1	843.3	880.5	917.6	954.8	992.0	1029.2	1066.4	1076.7	1087.0
80°	719.1	752.9	786.7	820.5	854.2	888.0	921.8	955.6	989.4	998.7	1008.0
82.5°	663.1	693.3	723.4	753.6	783.8	814.0	844.1	874.3	904.5	912.8	921.2
85°	604.3	630.9	657.6	684.3	710.9	737.6	764.3	790.9	817.6	825.0	832.3
87.5°	543.8	567.1	590.5	613.9	637.2	660.6	684.0	707.3	730.7	737.4	744.1
90°	488.6	509.3	529.9	550.5	571.2	591.8	612.4	633.1	653.7	659.8	666.0
92.5°	446.1	464.7	483.2	501.7	520.3	538.8	557.3	575.9	594.4	600.0	605.6
95°	411.9	428.8	445.7	462.6	479.4	496.3	513.2	530.1	547.0	552.2	557.3
97.5°	382.2	398.1	414.0	429.9	445.9	461.8	477.7	493.6	509.5	514.4	519.4
100°	356.9	372.2	387.4	402.7	417.9	433.2	448.4	463.7	478.9	483.7	488.6
102.5°	335.7	350.5	365.3	380.1	395.0	409.8	424.6	439.4	454.2	458.9	463.6
105°	316.8	331.4	346.0	360.6	375.1	389.7	404.3	418.9	433.5	438.2	442.9
107.5°	300.0	314.6	329.2	343.8	358.3	372.9	387.5	402.1	416.7	421.4	426.1
110°	284.0	298.3	312.7	327.1	341.4	355.8	370.2	384.5	398.9	403.8	408.8





TEST NUMBER: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	268.3	282.8	297.2	311.7	326.2	340.7	355.1	369.6	384.1	389.1	394.2
115°	249.7	264.4	279.1	293.8	308.5	323.2	337.9	352.6	367.3	372.6	377.8
117.5°	233.7	248.2	262.7	277.2	291.6	306.1	320.6	335.1	349.6	355.0	360.3
120°	216.6	230.7	244.9	259.0	273.2	287.3	301.5	315.6	329.8	335.3	340.8
122.5°	199.1	212.6	226.1	239.6	253.1	266.6	280.1	293.6	307.1	312.7	318.3
125°	181.6	194.3	207.1	219.8	232.5	245.2	258.0	270.7	283.4	288.9	294.4
127.5°	162.2	174.2	186.3	198.4	210.4	222.5	234.6	246.6	258.7	263.9	269.0
130°	140.7	152.0	163.3	174.6	185.9	197.2	208.5	219.8	231.1	236.1	241.2
132.5°	119.6	130.6	141.5	152.5	163.5	174.5	185.4	196.4	207.4	211.9	216.4
135°	102.8	112.8	122.8	132.8	142.7	152.7	162.7	172.7	182.7	186.6	190.6
137.5°	86.6	95.1	103.7	112.2	120.8	129.3	137.9	146.4	155.0	159.1	163.1
140°	72.0	78.8	85.6	92.4	99.2	106.0	112.8	119.6	126.4	130.6	134.7
142.5°	59.1	64.9	70.8	76.6	82.4	88.2	94.1	99.9	105.7	109.1	112.5
145°	47.4	52.4	57.3	62.2	67.2	72.1	77.0	82.0	86.9	90.2	93.5
147.5°	37.7	41.7	45.8	49.8	53.9	57.9	62.0	66.0	70.1	73.2	76.3
150°	29.0	32.3	35.6	38.9	42.1	45.4	48.7	52.0	55.3	58.3	61.2
152.5°	21.3	23.8	26.4	28.9	31.4	33.9	36.5	39.0	41.5	44.2	47.0
155°	13.9	16.0	18.1	20.2	22.2	24.3	26.4	28.5	30.6	33.1	35.6
157.5°	7.5	9.2	10.8	12.5	14.1	15.8	17.4	19.1	20.7	22.9	25.1
160°	3.2	4.4	5.6	6.8	8.0	9.2	10.4	11.6	12.8	14.7	16.5
162.5°	0.5	1.1	1.6	2.2	2.7	3.3	3.8	4.4	4.9	6.3	7.8
165°	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.9	2.8
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: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6
2.5°	720.5	719.7	719.0	718.2	717.4	716.7	715.9	716.6	717.2	717.9	718.5
5°	708.0	707.7	707.3	707.0	706.7	706.3	706.0	706.3	706.7	707.0	707.3
7.5°	695.8	695.7	695.6	695.5	695.4	695.3	695.2	695.3	695.4	695.5	695.6
10°	684.3	684.0	683.6	683.3	683.0	682.6	682.3	682.4	682.5	682.6	682.7
12.5°	674.1	674.0	673.8	673.7	673.6	673.5	673.4	673.3	673.2	673.1	673.0
15°	666.5	666.8	667.2	667.5	667.8	668.2	668.5	668.2	667.8	667.5	667.2
17.5°	665.2	666.1	667.0	667.9	668.7	669.6	670.5	669.6	668.7	667.9	667.0
20°	670.1	671.7	673.2	674.8	676.3	677.9	679.4	677.6	675.9	674.1	672.4
22.5°	677.7	679.4	681.2	682.9	684.7	686.4	688.2	686.0	683.8	681.6	679.4
25°	685.3	687.3	689.2	691.2	693.2	695.1	697.1	694.8	692.5	690.2	687.9
27.5°	693.2	695.5	697.8	700.1	702.4	704.7	707.0	704.4	701.7	699.1	696.5
30°	701.8	704.6	707.5	710.3	713.2	716.0	718.9	715.8	712.7	709.7	706.6
32.5°	712.6	716.1	719.7	723.2	726.7	730.2	733.7	730.1	726.5	722.8	719.2
35°	725.7	730.0	734.3	738.6	742.8	747.1	751.4	747.1	742.8	738.6	734.3
37.5°	742.9	747.9	753.0	758.0	763.1	768.1	773.2	768.1	763.1	758.0	753.0
40°	763.9	770.1	776.2	782.4	788.5	794.7	800.8	794.9	789.0	783.0	777.1
42.5°	790.3	797.6	805.0	812.3	819.7	827.0	834.4	827.4	820.4	813.3	806.3
45°	821.6	830.1	838.7	847.2	855.8	864.3	872.9	865.1	857.3	849.5	841.7
47.5°	859.0	868.9	878.8	888.7	898.5	908.4	918.3	909.3	900.3	891.3	882.3
50°	903.8	915.1	926.4	937.7	949.0	960.3	971.6	961.2	950.8	940.3	929.9
52.5°	952.2	964.8	977.5	990.1	1002.7	1015.3	1027.9	1016.5	1005.1	993.7	982.3
55°	1005.8	1019.5	1033.3	1047.0	1060.7	1074.4	1088.1	1075.8	1063.5	1051.3	1039.0
57.5°	1060.5	1075.3	1090.2	1105.0	1119.8	1134.6	1149.4	1136.2	1123.1	1109.9	1096.7
60°	1113.2	1128.4	1143.7	1158.9	1174.2	1189.4	1204.7	1191.2	1177.7	1164.2	1150.7
62.5°	1160.2	1175.4	1190.5	1205.7	1220.8	1236.0	1251.1	1237.8	1224.5	1211.3	1198.0
65°	1198.1	1213.0	1227.9	1242.8	1257.8	1272.7	1287.6	1274.7	1261.7	1248.8	1235.8
67.5°	1219.8	1234.1	1248.3	1262.6	1276.9	1291.1	1305.4	1293.0	1280.6	1268.2	1255.8
70°	1222.1	1235.5	1248.9	1262.3	1275.6	1289.0	1302.4	1290.8	1279.2	1267.5	1255.9
72.5°	1203.0	1215.3	1227.6	1239.9	1252.1	1264.4	1276.7	1265.7	1254.8	1243.8	1232.8
75°	1160.3	1171.5	1182.6	1193.8	1205.0	1216.2	1227.4	1217.2	1207.0	1196.8	1186.6
77.5°	1097.3	1107.6	1118.0	1128.3	1138.6	1148.9	1159.2	1149.7	1140.1	1130.6	1121.0
80°	1017.4	1026.7	1036.0	1045.3	1054.7	1064.0	1073.3	1064.3	1055.3	1046.3	1037.3
82.5°	929.5	937.8	946.2	954.5	962.8	971.2	979.5	970.9	962.4	953.8	945.3
85°	839.7	847.0	854.4	861.7	869.1	876.4	883.8	875.9	868.0	860.1	852.2
87.5°	750.8	757.5	764.1	770.8	777.5	784.2	790.9	784.5	778.2	771.8	765.5
90°	672.1	678.3	684.4	690.6	696.7	702.9	709.0	703.1	697.2	691.2	685.3
92.5°	611.2	616.8	622.4	628.0	633.6	639.2	644.8	639.2	633.6	628.0	622.4
95°	562.5	567.6	572.8	577.9	583.1	588.2	593.4	588.4	583.3	578.3	573.2
97.5°	524.3	529.2	534.2	539.1	544.0	549.0	553.9	549.1	544.3	539.4	534.6
100°	493.4	498.2	503.1	507.9	512.7	517.6	522.4	517.8	513.2	508.6	504.0
102.5°	468.4	473.1	477.8	482.5	487.3	492.0	496.7	492.1	487.5	482.9	478.3
105°	447.6	452.3	457.1	461.8	466.5	471.2	475.9	471.5	467.1	462.7	458.3
107.5°	430.9	435.6	440.3	445.0	449.8	454.5	459.2	454.7	450.2	445.7	441.2
110°	413.7	418.7	423.6	428.6	433.5	438.5	443.4	438.8	434.2	429.6	425.0



TEST NUMBER: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	399.2	404.3	409.3	414.4	419.4	424.5	429.5	424.8	420.1	415.4	410.7
115°	383.1	388.4	393.6	398.9	404.2	409.4	414.7	409.8	404.8	399.9	395.0
117.5°	365.7	371.1	376.4	381.8	387.2	392.5	397.9	392.9	387.8	382.8	377.7
120°	346.3	351.8	357.2	362.7	368.2	373.7	379.2	374.2	369.1	364.1	359.0
122.5°	323.9	329.5	335.1	340.7	346.3	351.9	357.5	352.4	347.4	342.3	337.3
125°	299.9	305.4	310.8	316.3	321.8	327.3	332.8	327.9	322.9	318.0	313.0
127.5°	274.2	279.3	284.5	289.6	294.8	299.9	305.1	300.5	295.9	291.3	286.7
130°	246.2	251.3	256.3	261.4	266.4	271.5	276.5	272.0	267.5	263.0	258.5
132.5°	220.9	225.4	229.8	234.3	238.8	243.3	247.8	243.7	239.7	235.6	231.6
135°	194.5	198.5	202.4	206.4	210.3	214.3	218.2	214.9	211.6	208.3	205.0
137.5°	167.2	171.3	175.3	179.4	183.5	187.5	191.6	188.4	185.2	182.0	178.8
140°	138.9	143.1	147.2	151.4	155.6	159.7	163.9	160.9	158.0	155.0	152.1
142.5°	115.9	119.3	122.7	126.1	129.5	132.9	136.3	134.3	132.3	130.4	128.4
145°	96.8	100.1	103.3	106.6	109.9	113.2	116.5	114.9	113.2	111.6	109.9
147.5°	79.3	82.4	85.5	88.6	91.6	94.7	97.8	96.5	95.2	93.8	92.5
150°	64.2	67.2	70.1	73.1	76.1	79.0	82.0	80.9	79.8	78.7	77.6
152.5°	49.7	52.5	55.2	58.0	60.7	63.5	66.2	65.3	64.4	63.6	62.7
155°	38.2	40.7	43.2	45.7	48.3	50.8	53.3	52.5	51.8	51.0	50.2
157.5°	27.3	29.5	31.7	33.9	36.1	38.3	40.5	39.9	39.4	38.8	38.3
160°	18.4	20.3	22.1	24.0	25.9	27.7	29.6	29.1	28.5	28.0	27.4
162.5°	9.2	10.6	12.1	13.5	14.9	16.4	17.8	17.5	17.1	16.8	16.5
165°	3.6	4.5	5.4	6.3	7.1	8.0	8.9	8.9	8.9	8.9	8.9
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: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6
2.5°	719.2	719.8	720.5	721.1	721.8	722.9	724.0	725.1	726.2	727.3	728.4
5°	707.7	708.0	708.3	708.7	709.0	710.2	711.4	712.6	713.8	715.0	716.2
7.5°	695.7	695.8	695.9	696.0	696.1	697.3	698.5	699.7	700.9	702.2	703.4
10°	682.9	683.0	683.1	683.2	683.3	684.7	686.1	687.6	689.0	690.4	691.8
12.5°	672.8	672.7	672.6	672.5	672.4	673.7	675.0	676.4	677.7	679.0	680.3
15°	666.8	666.5	666.2	665.8	665.5	666.1	666.6	667.2	667.7	668.3	668.8
17.5°	666.1	665.2	664.4	663.5	662.6	662.2	661.7	661.3	660.8	660.4	659.9
20°	670.6	668.9	667.1	665.4	663.6	661.6	659.6	657.7	655.7	653.7	651.7
22.5°	677.3	675.1	672.9	670.7	668.5	665.0	661.5	658.0	654.5	650.9	647.4
25°	685.6	683.3	681.0	678.7	676.4	671.6	666.7	661.9	657.1	652.2	647.4
27.5°	693.8	691.2	688.6	685.9	683.3	677.7	672.1	666.5	660.9	655.3	649.7
30°	703.5	700.4	697.4	694.3	691.2	684.5	677.8	671.1	664.4	657.8	651.1
32.5°	715.6	712.0	708.3	704.7	701.1	693.2	685.3	677.4	669.5	661.6	653.7
35°	730.0	725.7	721.5	717.2	712.9	703.7	694.5	685.3	676.1	666.8	657.6
37.5°	747.9	742.9	737.8	732.8	727.7	717.0	706.2	695.5	684.7	674.0	663.2
40°	771.2	765.3	759.3	753.4	747.5	734.9	722.3	709.6	697.0	684.4	671.8
42.5°	799.3	792.3	785.2	778.2	771.2	756.5	741.8	727.1	712.4	697.7	683.0
45°	834.0	826.2	818.4	810.6	802.8	785.2	767.7	750.1	732.6	715.0	697.5
47.5°	873.3	864.3	855.3	846.3	837.3	817.0	796.7	776.4	756.1	735.9	715.6
50°	919.5	909.1	898.6	888.2	877.8	854.4	831.1	807.7	784.3	761.0	737.6
52.5°	970.8	959.4	948.0	936.6	925.2	898.3	871.4	844.6	817.7	790.8	763.9
55°	1026.7	1014.4	1002.2	989.9	977.6	947.0	916.4	885.8	855.2	824.5	793.9
57.5°	1083.6	1070.4	1057.2	1044.1	1030.9	997.0	963.1	929.2	895.3	861.4	827.5
60°	1137.2	1123.7	1110.2	1096.7	1083.2	1046.2	1009.2	972.3	935.3	898.3	861.3
62.5°	1184.7	1171.4	1158.2	1144.9	1131.6	1092.0	1052.4	1012.8	973.2	933.5	893.9
65°	1222.9	1209.9	1197.0	1184.0	1171.1	1129.5	1087.9	1046.4	1004.8	963.2	921.6
67.5°	1243.4	1231.0	1218.6	1206.2	1193.8	1151.5	1109.1	1066.8	1024.4	982.1	939.7
70°	1244.3	1232.7	1221.0	1209.4	1197.8	1155.6	1113.3	1071.1	1028.8	986.6	944.3
72.5°	1221.9	1210.9	1199.9	1189.0	1178.0	1137.2	1096.4	1055.6	1014.8	973.9	933.1
75°	1176.3	1166.1	1155.9	1145.7	1135.5	1097.0	1058.5	1020.0	981.5	943.0	904.5
77.5°	1111.5	1101.9	1092.4	1082.8	1073.3	1037.8	1002.2	966.7	931.1	895.6	860.0
80°	1028.4	1019.4	1010.4	1001.4	992.4	960.3	928.1	896.0	863.8	831.7	799.5
82.5°	936.7	928.2	919.6	911.1	902.5	874.2	845.9	817.6	789.3	761.0	732.7
85°	844.3	836.4	828.5	820.6	812.7	787.8	762.9	738.0	713.1	688.1	663.2
87.5°	759.1	752.8	746.4	740.1	733.7	711.0	688.3	665.6	642.9	620.1	597.4
90°	679.4	673.5	667.5	661.6	655.7	635.7	615.7	595.8	575.8	555.8	535.8
92.5°	616.8	611.2	605.6	600.0	594.4	576.7	559.1	541.4	523.8	506.1	488.5
95°	568.2	563.1	558.1	553.0	548.0	531.8	515.5	499.3	483.1	466.8	450.6
97.5°	529.8	525.0	520.1	515.3	510.5	495.2	480.0	464.7	449.5	434.2	419.0
100°	499.3	494.7	490.1	485.5	480.9	466.2	451.5	436.8	422.1	407.4	392.7
102.5°	473.6	469.0	464.4	459.8	455.2	440.9	426.7	412.4	398.1	383.9	369.6
105°	454.0	449.6	445.2	440.8	436.4	422.3	408.1	394.0	379.8	365.7	351.5
107.5°	436.7	432.2	427.7	423.2	418.7	404.8	390.8	376.9	363.0	349.0	335.1
110°	420.3	415.7	411.1	406.5	401.9	388.1	374.3	360.4	346.6	332.8	319.0



TEST NUMBER: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	405.9	401.2	396.5	391.8	387.1	373.3	359.5	345.6	331.8	318.0	304.2
115°	390.0	385.1	380.2	375.2	370.3	356.5	342.7	328.8	315.0	301.2	287.4
117.5°	372.7	367.6	362.6	357.5	352.5	338.6	324.6	310.7	296.8	282.8	268.9
120°	354.0	348.9	343.9	338.8	333.8	320.1	306.4	292.6	278.9	265.2	251.5
122.5°	332.2	327.2	322.1	317.1	312.0	298.8	285.7	272.5	259.3	246.2	233.0
125°	308.1	303.1	298.2	293.2	288.3	275.8	263.3	250.8	238.3	225.8	213.3
127.5°	282.0	277.4	272.8	268.2	263.6	252.0	240.4	228.7	217.1	205.5	193.9
130°	254.0	249.5	245.0	240.5	236.0	225.6	215.2	204.7	194.3	183.9	173.5
132.5°	227.5	223.5	219.4	215.4	211.3	201.3	191.3	181.4	171.4	161.4	151.4
135°	201.8	198.5	195.2	191.9	188.6	179.6	170.6	161.6	152.6	143.6	134.6
137.5°	175.7	172.5	169.3	166.1	162.9	155.3	147.8	140.2	132.6	125.1	117.5
140°	149.1	146.2	143.2	140.3	137.3	131.3	125.2	119.2	113.1	107.1	101.0
142.5°	126.4	124.4	122.5	120.5	118.5	113.2	108.0	102.7	97.4	92.2	86.9
145°	108.3	106.6	105.0	103.3	101.7	97.2	92.7	88.2	83.7	79.2	74.7
147.5°	91.2	89.9	88.5	87.2	85.9	82.1	78.2	74.4	70.5	66.7	62.8
150°	76.5	75.4	74.3	73.2	72.1	68.7	65.3	61.9	58.5	55.1	51.7
152.5°	61.8	60.9	60.1	59.2	58.3	55.6	52.8	50.1	47.3	44.6	41.8
155°	49.5	48.7	47.9	47.2	46.4	44.1	41.8	39.5	37.2	34.9	32.6
157.5°	37.7	37.2	36.6	36.1	35.5	33.4	31.3	29.3	27.2	25.1	23.0
160°	26.9	26.3	25.8	25.2	24.7	23.2	21.6	20.1	18.6	17.0	15.5
162.5°	16.1	15.8	15.5	15.1	14.8	14.0	13.3	12.5	11.7	11.0	10.2
165°	8.9	8.9	8.9	8.9	8.9	8.5	8.0	7.6	7.1	6.7	6.2
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: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6
2.5°	729.5	730.6	731.7	731.8	731.9	732.0	732.1	732.3	732.4	732.5	732.6
5°	717.4	718.6	719.8	720.2	720.7	721.1	721.6	722.0	722.5	722.9	723.4
7.5°	704.6	705.8	707.0	707.7	708.3	709.0	709.6	710.3	710.9	711.6	712.2
10°	693.3	694.7	696.1	696.4	696.8	697.1	697.4	697.8	698.1	698.4	698.8
12.5°	681.7	683.0	684.3	684.4	684.5	684.6	684.7	684.9	685.0	685.1	685.2
15°	669.4	669.9	670.5	670.6	670.7	670.8	670.9	671.1	671.2	671.3	671.4
17.5°	659.5	659.0	658.6	658.2	657.7	657.3	656.9	656.4	656.0	655.6	655.1
20°	649.8	647.8	645.8	644.8	643.8	642.8	641.8	640.9	639.9	638.9	637.9
22.5°	643.9	640.4	636.9	634.6	632.3	630.0	627.7	625.4	623.1	620.8	618.5
25°	642.6	637.7	632.9	628.8	624.8	620.7	616.7	612.6	608.6	604.5	600.5
27.5°	644.1	638.5	632.9	626.4	620.0	613.5	607.0	600.6	594.1	587.6	581.2
30°	644.4	637.7	631.0	622.4	613.9	605.3	596.7	588.2	579.6	571.0	562.5
32.5°	645.8	637.9	630.0	619.4	608.7	598.1	587.4	576.8	566.1	555.5	544.8
35°	648.4	639.2	630.0	617.1	604.1	591.2	578.2	565.3	552.3	539.4	526.4
37.5°	652.5	641.7	631.0	616.0	600.9	585.9	570.9	555.8	540.8	525.8	510.7
40°	659.1	646.5	633.9	617.0	600.1	583.2	566.3	549.5	532.6	515.7	498.8
42.5°	668.3	653.6	638.9	619.9	600.9	581.9	562.9	544.0	525.0	506.0	487.0
45°	679.9	662.4	644.8	623.7	602.7	581.6	560.5	539.5	518.4	497.3	476.3
47.5°	695.3	675.0	654.7	631.3	607.9	584.6	561.2	537.8	514.4	491.1	467.7
50°	714.2	690.9	667.5	641.4	615.3	589.2	563.1	536.9	510.8	484.7	458.6
52.5°	737.1	710.2	683.3	654.2	625.1	596.1	567.0	537.9	508.8	479.8	450.7
55°	763.3	732.7	702.1	669.9	637.8	605.6	573.5	541.3	509.2	477.0	444.9
57.5°	793.6	759.7	725.8	689.9	654.0	618.2	582.3	546.4	510.5	474.7	438.8
60°	824.4	787.4	750.4	710.8	671.2	631.6	592.0	552.4	512.8	473.2	433.6
62.5°	854.3	814.7	775.1	731.9	688.7	645.4	602.2	559.0	515.8	472.5	429.3
65°	880.1	838.5	796.9	750.3	703.6	657.0	610.4	563.7	517.1	470.5	423.8
67.5°	897.4	855.0	812.7	763.1	713.5	663.9	614.3	564.7	515.1	465.5	415.9
70°	902.1	859.8	817.6	766.0	714.5	662.9	611.3	559.8	508.2	456.6	405.1
72.5°	892.3	851.5	810.7	758.3	705.8	653.4	600.9	548.5	496.0	443.6	391.1
75°	866.0	827.5	789.0	737.1	685.2	633.3	581.4	529.5	477.6	425.7	373.8
77.5°	824.5	788.9	753.4	703.4	653.3	603.3	553.3	503.2	453.2	403.2	353.1
80°	767.4	735.2	703.1	656.4	609.6	562.9	516.1	469.4	422.6	375.9	329.1
82.5°	704.4	676.1	647.8	604.8	561.8	518.8	475.8	432.7	389.7	346.7	303.7
85°	638.3	613.4	588.5	549.4	510.4	471.3	432.3	393.2	354.2	315.1	276.1
87.5°	574.7	552.0	529.3	494.4	459.5	424.6	389.7	354.9	320.0	285.1	250.2
90°	515.9	495.9	475.9	444.6	413.4	382.1	350.8	319.6	288.3	257.0	225.8
92.5°	470.8	453.2	435.5	407.3	379.1	350.9	322.7	294.5	266.3	238.1	209.9
95°	434.4	418.1	401.9	375.9	349.9	323.9	297.9	271.9	245.9	219.9	193.9
97.5°	403.7	388.5	373.2	349.1	324.9	300.8	276.7	252.5	228.4	204.3	180.1
100°	378.0	363.3	348.6	325.9	303.2	280.5	257.8	235.0	212.3	189.6	166.9
102.5°	355.3	341.1	326.8	305.2	283.6	262.0	240.4	218.7	197.1	175.5	153.9
105°	337.4	323.2	309.1	288.3	267.4	246.6	225.7	204.9	184.0	163.2	142.3
107.5°	321.2	307.2	293.3	273.1	252.9	232.7	212.5	192.4	172.2	152.0	131.8
110°	305.1	291.3	277.5	258.1	238.7	219.2	199.8	180.4	161.0	141.5	122.1



TEST NUMBER: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	290.3	276.5	262.7	243.8	224.9	206.1	187.2	168.3	149.4	130.6	111.7
115°	273.5	259.7	245.9	227.9	209.9	191.9	173.9	155.9	137.9	119.9	101.9
117.5°	255.0	241.0	227.1	210.3	193.5	176.7	159.9	143.2	126.4	109.6	92.8
120°	237.7	224.0	210.3	194.5	178.7	162.9	147.1	131.3	115.5	99.7	83.9
122.5°	219.8	206.7	193.5	178.9	164.3	149.7	135.1	120.6	106.0	91.4	76.8
125°	200.8	188.3	175.8	162.4	149.0	135.6	122.2	108.9	95.5	82.1	68.7
127.5°	182.2	170.6	159.0	146.8	134.6	122.5	110.3	98.1	85.9	73.8	61.6
130°	163.0	152.6	142.2	131.3	120.5	109.6	98.7	87.9	77.0	66.1	55.3
132.5°	141.5	131.5	121.5	112.3	103.1	93.8	84.6	75.4	66.2	56.9	47.7
135°	125.6	116.6	107.6	99.4	91.2	82.9	74.7	66.5	58.3	50.0	41.8
137.5°	109.9	102.4	94.8	87.3	79.9	72.4	64.9	57.5	50.0	42.5	35.1
140°	95.0	88.9	82.9	76.2	69.5	62.8	56.1	49.5	42.8	36.1	29.4
142.5°	81.6	76.4	71.1	65.2	59.3	53.3	47.4	41.5	35.6	29.6	23.7
145°	70.2	65.7	61.2	55.9	50.7	45.4	40.1	34.9	29.6	24.3	19.1
147.5°	59.0	55.1	51.3	46.8	42.3	37.8	33.3	28.9	24.4	19.9	15.4
150°	48.3	44.9	41.5	37.9	34.3	30.6	27.0	23.4	19.8	16.1	12.5
152.5°	39.1	36.3	33.6	30.7	27.9	25.0	22.2	19.3	16.5	13.6	10.8
155°	30.3	28.0	25.7	23.5	21.3	19.1	16.9	14.7	12.5	10.3	8.1
157.5°	21.0	18.9	16.8	15.4	13.9	12.5	11.1	9.6	8.2	6.8	5.3
160°	14.0	12.4	10.9	10.0	9.1	8.3	7.4	6.5	5.6	4.8	3.9
162.5°	9.4	8.7	7.9	7.2	6.6	5.9	5.3	4.6	4.0	3.3	2.7
165°	5.8	5.3	4.9	4.6	4.3	3.9	3.6	3.3	3.0	2.6	2.3
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: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6
2.5°	732.7	734.8	736.9	738.9	741.0	743.1	745.2	747.2	749.3	751.4	751.2
5°	723.8	726.4	729.1	731.7	734.3	737.0	739.6	742.2	744.9	747.5	748.0
7.5°	712.9	715.9	718.8	721.8	724.8	727.7	730.7	733.7	736.6	739.6	741.0
10°	699.1	702.6	706.1	709.6	713.1	716.7	720.2	723.7	727.2	730.7	732.8
12.5°	685.3	689.0	692.8	696.5	700.2	704.0	707.7	711.4	715.2	718.9	721.9
15°	671.5	675.3	679.2	683.0	686.8	690.7	694.5	698.3	702.2	706.0	709.8
17.5°	654.7	658.6	662.6	666.5	670.5	674.4	678.4	682.3	686.3	690.2	694.9
20°	636.9	640.8	644.8	648.7	652.7	656.6	660.6	664.5	668.5	672.4	677.9
22.5°	616.2	619.9	623.6	627.4	631.1	634.8	638.5	642.3	646.0	649.7	656.5
25°	596.4	600.0	603.6	607.3	610.9	614.5	618.1	621.8	625.4	629.0	636.6
27.5°	574.7	578.2	581.7	585.2	588.7	592.3	595.8	599.3	602.8	606.3	614.9
30°	553.9	556.9	559.8	562.8	565.8	568.7	571.7	574.7	577.6	580.6	590.3
32.5°	534.2	536.3	538.4	540.5	542.6	544.6	546.7	548.8	550.9	553.0	564.0
35°	513.5	514.7	515.9	517.1	518.3	519.5	520.7	521.9	523.1	524.3	536.7
37.5°	495.7	495.7	495.7	495.7	495.7	495.7	495.7	495.7	495.7	495.7	509.7
40°	481.9	480.1	478.4	476.6	474.9	473.1	471.4	469.6	467.9	466.1	481.9
42.5°	468.0	464.3	460.6	456.8	453.1	449.4	445.7	441.9	438.2	434.5	452.4
45°	455.2	449.6	444.0	438.4	432.8	427.2	421.6	416.0	410.4	404.8	424.7
47.5°	444.3	436.5	428.7	420.9	413.1	405.4	397.6	389.8	382.0	374.2	396.0
50°	432.5	422.7	413.0	403.2	393.4	383.7	373.9	364.1	354.4	344.6	368.5
52.5°	421.6	409.9	398.1	386.4	374.7	362.9	351.2	339.5	327.7	316.0	341.9
55°	412.7	398.9	385.1	371.2	357.4	343.6	329.8	315.9	302.1	288.3	316.2
57.5°	402.9	387.1	371.3	355.5	339.7	323.9	308.1	292.3	276.5	260.7	290.7
60°	394.0	375.9	357.8	339.7	321.6	303.5	285.4	267.3	249.2	231.1	263.5
62.5°	386.1	366.0	345.9	325.9	305.8	285.7	265.6	245.6	225.5	205.4	239.8
65°	377.2	355.4	333.5	311.7	289.9	268.0	246.2	224.4	202.5	180.7	217.0
67.5°	366.3	342.9	319.6	296.2	272.8	249.5	226.1	202.7	179.4	156.0	194.0
70°	353.5	329.0	304.6	280.1	255.6	231.2	206.7	182.2	157.8	133.3	172.5
72.5°	338.7	313.4	288.0	262.7	237.3	212.0	186.6	161.3	135.9	110.6	150.6
75°	321.9	296.1	270.3	244.6	218.8	193.0	167.2	141.5	115.7	89.9	130.4
77.5°	303.1	277.3	251.5	225.8	200.0	174.2	148.4	122.7	96.9	71.1	111.4
80°	282.4	256.8	231.3	205.7	180.1	154.6	129.0	103.4	77.9	52.3	91.9
82.5°	260.7	235.8	210.9	186.0	161.1	136.1	111.2	86.3	61.4	36.5	74.9
85°	237.0	213.1	189.2	165.2	141.3	117.4	93.5	69.5	45.6	21.7	58.7
87.5°	215.3	192.4	169.4	146.5	123.6	100.6	77.7	54.8	31.8	8.9	44.0
90°	194.5	172.9	151.3	129.7	108.1	86.4	64.8	43.2	21.6	0.0	32.9
92.5°	181.7	161.5	141.3	121.1	100.9	80.8	60.6	40.4	20.2	0.0	30.5
95°	167.9	149.2	130.6	111.9	93.3	74.6	56.0	37.3	18.7	0.0	28.1
97.5°	156.0	138.7	121.3	104.0	86.7	69.3	52.0	34.7	17.3	0.0	25.6
100°	144.2	128.2	112.2	96.1	80.1	64.1	48.1	32.0	16.0	0.0	23.4
102.5°	132.3	117.6	102.9	88.2	73.5	58.8	44.1	29.4	14.7	0.0	21.3
105°	121.5	108.0	94.5	81.0	67.5	54.0	40.5	27.0	13.5	0.0	19.4
107.5°	111.6	99.2	86.8	74.4	62.0	49.6	37.2	24.8	12.4	0.0	17.7
110°	102.7	91.3	79.9	68.5	57.1	45.6	34.2	22.8	11.4	0.0	15.9





TEST NUMBER: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	92.8	82.5	72.2	61.9	51.6	41.2	30.9	20.6	10.3	0.0	14.5
115°	83.9	74.7	65.5	56.3	47.1	37.8	28.6	19.4	10.2	1.0	14.1
117.5°	76.0	67.7	59.3	51.0	42.7	34.3	26.0	17.7	9.3	1.0	12.7
120°	68.1	60.6	53.2	45.7	38.3	30.8	23.4	15.9	8.5	1.0	11.6
122.5°	62.2	55.4	48.6	41.8	35.0	28.2	21.4	14.6	7.8	1.0	10.4
125°	55.3	49.3	43.2	37.2	31.2	25.1	19.1	13.1	7.0	1.0	9.2
127.5°	49.4	44.0	38.6	33.3	27.9	22.5	17.1	11.8	6.4	1.0	7.9
130°	44.4	39.6	34.8	29.9	25.1	20.3	15.5	10.6	5.8	1.0	6.6
132.5°	38.5	34.3	30.2	26.0	21.8	17.7	13.5	9.3	5.2	1.0	5.5
135°	33.6	30.0	26.4	22.7	19.1	15.5	11.9	8.2	4.6	1.0	4.4
137.5°	27.6	24.6	21.7	18.7	15.8	12.8	9.9	6.9	4.0	1.0	3.4
140°	22.7	20.3	17.9	15.5	13.1	10.6	8.2	5.8	3.4	1.0	2.6
142.5°	17.8	15.9	14.1	12.2	10.3	8.5	6.6	4.7	2.9	1.0	2.1
145°	13.8	12.4	11.0	9.5	8.1	6.7	5.3	3.8	2.4	1.0	1.7
147.5°	10.9	9.8	8.7	7.6	6.5	5.4	4.3	3.2	2.1	1.0	1.4
150°	8.9	8.0	7.1	6.3	5.4	4.5	3.6	2.8	1.9	1.0	1.3
152.5°	7.9	7.1	6.4	5.6	4.8	4.1	3.3	2.5	1.8	1.0	1.2
155°	5.9	5.4	4.8	4.3	3.7	3.2	2.6	2.1	1.5	1.0	1.1
157.5°	3.9	3.6	3.3	2.9	2.6	2.3	2.0	1.6	1.3	1.0	1.0
160°	3.0	2.8	2.6	2.3	2.1	1.9	1.7	1.4	1.2	1.0	1.0
162.5°	2.0	1.9	1.8	1.7	1.6	1.4	1.3	1.2	1.1	1.0	1.0
165°	2.0	1.9	1.8	1.7	1.6	1.4	1.3	1.2	1.1	1.0	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: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6
2.5°	751.0	750.8	750.6	750.3	750.1	749.9	749.7	749.5	750.0	750.6	751.1
5°	748.6	749.1	749.7	750.2	750.8	751.3	751.9	752.4	753.6	754.8	756.0
7.5°	742.4	743.9	745.3	746.7	748.1	749.6	751.0	752.4	754.3	756.1	758.0
10°	734.9	737.0	739.1	741.1	743.2	745.3	747.4	749.5	752.2	755.0	757.7
12.5°	724.8	727.8	730.7	733.7	736.6	739.6	742.5	745.5	749.1	752.7	756.4
15°	713.7	717.5	721.4	725.2	729.1	732.9	736.8	740.6	745.1	749.6	754.1
17.5°	699.6	704.4	709.1	713.8	718.5	723.3	728.0	732.7	738.4	744.1	749.8
20°	683.4	688.9	694.4	699.8	705.3	710.8	716.3	721.8	728.8	735.8	742.9
22.5°	663.3	670.1	676.9	683.8	690.6	697.4	704.2	711.0	719.9	728.8	737.6
25°	644.1	651.7	659.3	666.8	674.4	682.0	689.5	697.1	708.4	719.7	731.0
27.5°	623.4	632.0	640.5	649.1	657.6	666.2	674.7	683.3	697.0	710.7	724.4
30°	599.9	609.6	619.2	628.9	638.5	648.2	657.8	667.5	683.7	700.0	716.2
32.5°	574.9	585.9	596.9	607.8	618.8	629.8	640.7	651.7	670.6	689.4	708.3
35°	549.1	561.5	573.9	586.3	598.7	611.1	623.5	635.9	657.2	678.5	699.8
37.5°	523.8	537.8	551.9	565.9	580.0	594.0	608.1	622.1	645.9	669.7	693.5
40°	497.7	513.5	529.3	545.1	560.9	576.7	592.5	608.3	634.7	661.2	687.6
42.5°	470.3	488.1	506.0	523.9	541.8	559.6	577.5	595.4	624.5	653.6	682.6
45°	444.5	464.4	484.3	504.1	524.0	543.9	563.7	583.6	615.6	647.7	679.7
47.5°	417.9	439.7	461.5	483.4	505.2	527.0	548.9	570.7	606.1	641.6	677.0
50°	392.4	416.4	440.3	464.2	488.1	512.1	536.0	559.9	598.8	637.8	676.7
52.5°	367.8	393.7	419.6	445.4	471.3	497.2	523.1	549.0	591.9	634.8	677.7
55°	344.0	371.9	399.8	427.6	455.5	483.4	511.2	539.1	586.4	633.7	681.0
57.5°	320.6	350.6	380.5	410.5	440.4	470.4	500.3	530.3	582.2	634.1	686.0
60°	295.8	328.2	360.6	392.9	425.3	457.7	490.0	522.4	579.3	636.3	693.2
62.5°	274.3	308.7	343.2	377.6	412.1	446.5	481.0	515.4	577.2	639.0	700.7
65°	253.3	289.6	325.9	362.3	398.6	434.9	471.2	507.5	573.9	640.3	706.6
67.5°	231.9	269.9	307.9	345.8	383.8	421.8	459.7	497.7	568.5	639.2	710.0
70°	211.6	250.8	290.0	329.1	368.3	407.5	446.6	485.8	559.4	633.0	706.7
72.5°	190.7	230.7	270.8	310.8	350.9	390.9	431.0	471.0	545.9	620.9	695.8
75°	170.9	211.3	251.8	292.3	332.8	373.2	413.7	454.2	528.5	602.8	677.0
77.5°	151.6	191.9	232.2	272.4	312.7	353.0	393.2	433.5	505.5	577.4	649.4
80°	131.5	171.1	210.7	250.4	290.0	329.6	369.2	408.8	476.9	545.1	613.2
82.5°	113.3	151.7	190.1	228.5	266.9	305.3	343.7	382.1	445.5	508.9	572.4
85°	95.7	132.6	169.6	206.6	243.6	280.5	317.5	354.5	412.6	470.8	528.9
87.5°	79.1	114.2	149.3	184.5	219.6	254.7	289.8	324.9	377.6	430.2	482.9
90°	65.8	98.7	131.6	164.6	197.5	230.4	263.3	296.2	343.9	391.7	439.4
92.5°	61.0	91.5	122.0	152.5	183.0	213.5	244.0	274.5	317.8	361.2	404.5
95°	56.2	84.3	112.4	140.4	168.5	196.6	224.7	252.8	292.7	332.7	372.6
97.5°	51.1	76.7	102.3	127.8	153.4	179.0	204.5	230.1	267.4	304.7	342.0
100°	46.7	70.1	93.5	116.8	140.2	163.6	186.9	210.3	245.4	280.5	315.6
102.5°	42.6	63.9	85.2	106.4	127.7	149.0	170.3	191.6	224.8	258.1	291.3
105°	38.8	58.3	77.7	97.1	116.5	136.0	155.4	174.8	206.4	238.0	269.6
107.5°	35.3	53.0	70.7	88.3	106.0	123.7	141.3	159.0	189.6	220.2	250.8
110°	31.8	47.7	63.6	79.6	95.5	111.4	127.3	143.2	172.5	201.8	231.1



TEST NUMBER: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	29.0	43.4	57.9	72.4	86.9	101.3	115.8	130.3	158.1	185.8	213.6
115°	27.1	40.2	53.2	66.3	79.3	92.4	105.4	118.5	144.9	171.4	197.8
117.5°	24.5	36.2	47.9	59.7	71.4	83.1	94.9	106.6	131.8	157.1	182.3
120°	22.3	32.9	43.6	54.2	64.9	75.5	86.2	96.8	120.3	143.8	167.2
122.5°	19.9	29.3	38.7	48.2	57.6	67.0	76.5	85.9	107.5	129.1	150.7
125°	17.4	25.7	33.9	42.1	50.3	58.6	66.8	75.0	95.1	115.2	135.2
127.5°	14.8	21.7	28.6	35.6	42.5	49.4	56.3	63.2	81.7	100.3	118.8
130°	12.2	17.8	23.4	28.9	34.5	40.1	45.7	51.3	68.0	84.7	101.3
132.5°	10.0	14.5	19.0	23.5	28.0	32.5	37.0	41.5	56.2	70.9	85.6
135°	7.8	11.2	14.6	18.0	21.4	24.8	28.2	31.6	44.5	57.5	70.4
137.5°	5.8	8.2	10.6	13.1	15.5	17.9	20.3	22.7	34.0	45.3	56.6
140°	4.3	5.9	7.6	9.2	10.9	12.5	14.2	15.8	25.5	35.1	44.8
142.5°	3.2	4.3	5.4	6.5	7.6	8.7	9.8	10.9	19.0	27.1	35.2
145°	2.3	3.0	3.6	4.3	4.9	5.6	6.2	6.9	13.5	20.1	26.7
147.5°	1.9	2.3	2.7	3.2	3.6	4.0	4.5	4.9	10.1	15.2	20.4
150°	1.6	2.0	2.3	2.6	2.9	3.3	3.6	3.9	7.6	11.4	15.1
152.5°	1.4	1.7	1.9	2.1	2.3	2.6	2.8	3.0	5.6	8.3	10.9
155°	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	3.5	5.1	6.6
157.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.8	3.6
160°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.6	2.0
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
165°	0.8	0.7	0.6	0.4	0.3	0.2	0.1	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: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6
2.5°	751.7	752.2	752.8	753.3	753.9	754.4	754.6	754.8	755.1	755.3	755.5
5°	757.2	758.5	759.7	760.9	762.1	763.3	764.0	764.6	765.3	765.9	766.6
7.5°	759.9	761.7	763.6	765.5	767.3	769.2	770.5	771.8	773.2	774.5	775.8
10°	760.4	763.2	765.9	768.6	771.4	774.1	776.2	778.3	780.4	782.5	784.5
12.5°	760.0	763.6	767.2	770.9	774.5	778.1	781.0	783.8	786.7	789.5	792.4
15°	758.6	763.1	767.6	772.1	776.6	781.1	784.8	788.5	792.3	796.0	799.7
17.5°	755.5	761.2	766.9	772.6	778.3	784.0	789.0	794.1	799.1	804.2	809.2
20°	749.9	756.9	763.9	771.0	778.0	785.0	792.1	799.3	806.4	813.5	820.7
22.5°	746.5	755.4	764.3	773.1	782.0	790.9	799.5	808.0	816.6	825.2	833.7
25°	742.3	753.6	764.9	776.2	787.5	798.8	808.6	818.3	828.1	837.9	847.6
27.5°	738.1	751.9	765.6	779.3	793.0	806.7	817.7	828.7	839.6	850.6	861.6
30°	732.4	748.7	764.9	781.1	797.4	813.6	826.0	838.4	850.8	863.2	875.6
32.5°	727.2	746.0	764.9	783.8	802.6	821.5	835.4	849.4	863.3	877.2	891.2
35°	721.1	742.3	763.6	784.9	806.2	827.5	843.6	859.7	875.9	892.0	908.1
37.5°	717.3	741.2	765.0	788.8	812.6	836.4	854.7	873.0	891.4	909.7	928.0
40°	714.0	740.5	766.9	793.3	819.8	846.2	867.3	888.3	909.4	930.5	951.5
42.5°	711.7	740.8	769.9	798.9	828.0	857.1	881.6	906.0	930.5	955.0	979.4
45°	711.7	743.8	775.8	807.8	839.9	871.9	900.0	928.1	956.2	984.3	1012.3
47.5°	712.5	747.9	783.4	818.8	854.3	889.7	921.7	953.8	985.8	1017.8	1049.9
50°	715.7	754.6	793.6	832.5	871.5	910.4	947.6	984.8	1022.0	1059.2	1096.4
52.5°	720.6	763.5	806.4	849.3	892.2	935.1	976.6	1018.0	1059.5	1101.0	1142.4
55°	728.3	775.5	822.8	870.1	917.4	964.7	1011.1	1057.5	1103.9	1150.3	1196.8
57.5°	737.9	789.7	841.6	893.5	945.4	997.3	1048.3	1099.3	1150.4	1201.4	1252.4
60°	750.1	807.1	864.0	920.9	977.9	1034.8	1090.4	1146.1	1201.7	1257.3	1313.0
62.5°	762.5	824.3	886.1	947.8	1009.6	1071.4	1129.8	1188.1	1246.5	1304.9	1363.2
65°	773.0	839.4	905.8	972.1	1038.5	1104.9	1165.8	1226.7	1287.6	1348.5	1409.4
67.5°	780.8	851.5	922.3	993.1	1063.8	1134.6	1196.3	1257.9	1319.6	1381.2	1442.9
70°	780.3	853.9	927.5	1001.2	1074.8	1148.4	1209.9	1271.5	1333.0	1394.6	1456.1
72.5°	770.7	845.7	920.6	995.5	1070.5	1145.4	1205.5	1265.6	1325.8	1385.9	1446.0
75°	751.3	825.6	899.9	974.1	1048.4	1122.7	1180.4	1238.1	1295.8	1353.5	1411.3
77.5°	721.4	793.3	865.3	937.3	1009.2	1081.2	1135.4	1189.6	1243.8	1298.0	1352.2
80°	681.3	749.5	817.6	885.7	953.9	1022.0	1071.9	1121.8	1171.8	1221.7	1271.6
82.5°	635.8	699.2	762.6	826.1	889.5	952.9	998.2	1043.5	1088.8	1134.1	1179.5
85°	587.1	645.2	703.4	761.5	819.7	877.8	918.8	959.9	1000.9	1041.9	1083.0
87.5°	535.5	588.2	640.8	693.5	746.1	798.8	835.4	872.1	908.7	945.4	982.0
90°	487.1	534.9	582.6	630.3	678.1	725.8	758.9	792.1	825.2	858.3	891.5
92.5°	447.8	491.2	534.5	577.8	621.2	664.5	695.1	725.7	756.3	786.9	817.6
95°	412.5	452.5	492.4	532.3	572.3	612.2	641.1	669.9	698.8	727.6	756.5
97.5°	379.3	416.6	453.9	491.2	528.5	565.8	592.9	620.0	647.1	674.2	701.3
100°	350.7	385.9	421.0	456.1	491.2	526.3	552.5	578.7	605.0	631.2	657.4
102.5°	324.6	357.8	391.1	424.3	457.6	490.8	516.5	542.1	567.8	593.5	619.1
105°	301.2	332.8	364.4	396.0	427.6	459.2	484.4	509.7	534.9	560.1	585.4
107.5°	281.4	312.1	342.7	373.3	403.9	434.5	459.0	483.4	507.9	532.4	556.8
110°	260.4	289.6	318.9	348.2	377.5	406.8	430.9	455.1	479.2	503.4	527.5



TEST NUMBER: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	241.4	269.1	296.9	324.7	352.4	380.2	403.8	427.4	451.0	474.6	498.1
115°	224.3	250.7	277.2	303.6	330.1	356.5	379.0	401.5	424.0	446.5	468.9
117.5°	207.6	232.8	258.1	283.3	308.6	333.8	355.3	376.8	398.3	419.8	441.3
120°	190.7	214.2	237.7	261.1	284.6	308.1	329.1	350.0	371.0	391.9	412.9
122.5°	172.3	194.0	215.6	237.2	258.8	280.4	301.0	321.7	342.3	362.9	383.6
125°	155.3	175.4	195.5	215.5	235.6	255.7	275.2	294.8	314.3	333.8	353.4
127.5°	137.4	155.9	174.5	193.0	211.6	230.1	248.1	266.1	284.1	302.1	320.0
130°	118.0	134.7	151.4	168.0	184.7	201.4	218.0	234.5	251.1	267.7	284.2
132.5°	100.3	115.0	129.7	144.4	159.1	173.8	189.5	205.2	220.9	236.6	252.2
135°	83.4	96.3	109.3	122.2	135.2	148.1	163.0	177.9	192.9	207.8	222.7
137.5°	67.9	79.2	90.5	101.8	113.1	124.4	138.1	151.8	165.5	179.2	193.0
140°	54.4	64.1	73.7	83.4	93.0	102.7	114.3	126.0	137.6	149.2	160.9
142.5°	43.3	51.5	59.6	67.7	75.8	83.9	93.8	103.7	113.5	123.4	133.3
145°	33.3	39.8	46.4	53.0	59.6	66.2	74.5	82.9	91.2	99.5	107.9
147.5°	25.5	30.7	35.8	41.0	46.1	51.3	58.2	65.1	72.1	79.0	85.9
150°	18.8	22.6	26.3	30.0	33.8	37.5	43.2	48.9	54.6	60.3	66.1
152.5°	13.5	16.2	18.8	21.4	24.1	26.7	31.1	35.5	39.9	44.3	48.6
155°	8.1	9.7	11.2	12.7	14.3	15.8	19.3	22.8	26.3	29.8	33.4
157.5°	4.5	5.4	6.3	7.1	8.0	8.9	11.3	13.7	16.1	18.5	21.0
160°	2.3	2.6	2.9	3.3	3.6	3.9	5.3	6.8	8.2	9.6	11.1
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.7	2.3	3.0	3.6	4.3
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6
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: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6
2.5°	755.7	756.0	756.2	756.4	755.6	754.9	754.1	753.3	752.6	751.8	751.0
5°	767.2	767.9	768.5	769.2	769.0	768.8	768.5	768.3	768.1	767.9	767.6
7.5°	777.1	778.5	779.8	781.1	781.2	781.3	781.4	781.5	781.6	781.7	781.8
10°	786.6	788.7	790.8	792.9	793.1	793.3	793.6	793.8	794.0	794.2	794.5
12.5°	795.2	798.1	800.9	803.8	804.3	804.9	805.4	806.0	806.5	807.1	807.6
15°	803.4	807.2	810.9	814.6	815.7	816.8	817.9	819.0	820.1	821.2	822.3
17.5°	814.3	819.3	824.4	829.4	831.3	833.1	835.0	836.9	838.7	840.6	842.5
20°	827.8	834.9	842.1	849.2	851.5	853.8	856.1	858.4	860.7	863.0	865.3
22.5°	842.3	850.9	859.4	868.0	870.6	873.3	875.9	878.5	881.2	883.8	886.4
25°	857.4	867.2	876.9	886.7	889.8	892.9	895.9	899.0	902.1	905.2	908.2
27.5°	872.6	883.5	894.5	905.5	909.3	913.2	917.0	920.8	924.7	928.5	932.3
30°	888.0	900.4	912.8	925.2	929.8	934.4	939.0	943.6	948.3	952.9	957.5
32.5°	905.1	919.0	933.0	946.9	952.3	957.7	963.0	968.4	973.8	979.2	984.5
35°	924.2	940.4	956.5	972.6	979.1	985.6	992.0	998.5	1005.0	1011.5	1017.9
37.5°	946.3	964.7	983.0	1001.3	1009.3	1017.3	1025.3	1033.3	1041.3	1049.3	1057.3
40°	972.6	993.7	1014.7	1035.8	1045.3	1054.9	1064.4	1074.0	1083.5	1093.1	1102.6
42.5°	1003.9	1028.4	1052.8	1077.3	1088.3	1099.2	1110.2	1121.2	1132.1	1143.1	1154.1
45°	1040.4	1068.5	1096.6	1124.7	1137.3	1149.9	1162.5	1175.1	1187.8	1200.4	1213.0
47.5°	1081.9	1113.9	1146.0	1178.0	1192.9	1207.8	1222.8	1237.7	1252.6	1267.5	1282.5
50°	1133.6	1170.8	1208.0	1245.2	1261.5	1277.9	1294.2	1310.6	1326.9	1343.3	1359.6
52.5°	1183.9	1225.4	1266.8	1308.3	1327.0	1345.6	1364.3	1382.9	1401.6	1420.2	1438.9
55°	1243.2	1289.6	1336.0	1382.4	1402.5	1422.6	1442.6	1462.7	1482.8	1502.9	1522.9
57.5°	1303.4	1354.5	1405.5	1456.5	1477.9	1499.3	1520.7	1542.1	1563.4	1584.8	1606.2
60°	1368.6	1424.2	1479.9	1535.5	1556.8	1578.1	1599.3	1620.6	1641.9	1663.2	1684.4
62.5°	1421.6	1480.0	1538.3	1596.7	1618.5	1640.4	1662.2	1684.0	1705.9	1727.7	1749.5
65°	1470.3	1531.2	1592.1	1653.0	1674.0	1694.9	1715.9	1736.8	1757.8	1778.7	1799.7
67.5°	1504.5	1566.2	1627.8	1689.5	1709.7	1729.9	1750.1	1770.3	1790.4	1810.6	1830.8
70°	1517.7	1579.2	1640.8	1702.3	1721.2	1740.1	1758.9	1777.8	1796.7	1815.6	1834.4
72.5°	1506.1	1566.3	1626.4	1686.5	1704.6	1722.7	1740.8	1758.9	1777.1	1795.2	1813.3
75°	1469.0	1526.7	1584.4	1642.1	1659.2	1676.3	1693.4	1710.5	1727.7	1744.8	1761.9
77.5°	1406.4	1460.6	1514.8	1569.0	1585.2	1601.5	1617.7	1634.0	1650.2	1666.5	1682.7
80°	1321.5	1371.5	1421.4	1471.3	1486.9	1502.5	1518.0	1533.6	1549.2	1564.8	1580.3
82.5°	1224.8	1270.1	1315.4	1360.7	1375.5	1390.3	1405.1	1419.9	1434.8	1449.6	1464.4
85°	1124.0	1165.0	1206.1	1247.1	1260.6	1274.1	1287.6	1301.1	1314.6	1328.1	1341.6
87.5°	1018.7	1055.3	1092.0	1128.6	1141.8	1154.9	1168.1	1181.3	1194.4	1207.6	1220.8
90°	924.6	957.7	990.9	1024.0	1036.5	1049.0	1061.5	1074.0	1086.5	1099.0	1111.5
92.5°	848.2	878.8	909.4	940.0	951.5	963.0	974.6	986.1	997.6	1009.1	1020.7
95°	785.3	814.2	843.0	871.9	882.4	893.0	903.5	914.0	924.6	935.1	945.6
97.5°	728.4	755.5	782.6	809.7	820.0	830.3	840.6	850.9	861.3	871.6	881.9
100°	683.6	709.9	736.1	762.3	772.3	782.3	792.3	802.3	812.2	822.2	832.2
102.5°	644.8	670.5	696.1	721.8	731.6	741.3	751.1	760.9	770.6	780.4	790.2
105°	610.6	635.8	661.1	686.3	696.1	705.8	715.6	725.3	735.1	744.8	754.6
107.5°	581.3	605.8	630.2	654.7	664.4	674.0	683.7	693.3	703.0	712.6	722.3
110°	551.7	575.8	600.0	624.1	633.5	643.0	652.4	661.8	671.3	680.7	690.1



TEST NUMBER: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	521.7	545.3	568.9	592.5	601.9	611.4	620.8	630.2	639.7	649.1	658.5
115°	491.4	513.9	536.4	558.9	568.2	577.5	586.9	596.2	605.5	614.8	624.2
117.5°	462.8	484.3	505.8	527.3	536.1	544.9	553.6	562.4	571.2	580.0	588.7
120°	433.8	454.8	475.7	496.7	505.0	513.4	521.7	530.0	538.4	546.7	555.0
122.5°	404.2	424.8	445.5	466.1	474.2	482.3	490.4	498.5	506.7	514.8	522.9
125°	372.9	392.4	412.0	431.5	439.7	448.0	456.2	464.4	472.7	480.9	489.1
127.5°	338.0	356.0	374.0	392.0	400.1	408.2	416.4	424.5	432.6	440.7	448.9
130°	300.8	317.4	333.9	350.5	357.9	365.2	372.6	379.9	387.3	394.6	402.0
132.5°	267.9	283.6	299.3	315.0	321.1	327.3	333.4	339.6	345.7	351.9	358.0
135°	237.6	252.6	267.5	282.4	287.7	292.9	298.2	303.5	308.7	314.0	319.3
137.5°	206.7	220.4	234.1	247.8	253.0	258.1	263.3	268.5	273.6	278.8	284.0
140°	172.5	184.1	195.8	207.4	213.1	218.8	224.5	230.2	235.9	241.6	247.3
142.5°	143.2	153.0	162.9	172.8	178.2	183.6	188.9	194.3	199.7	205.1	210.4
145°	116.2	124.5	132.9	141.2	146.6	152.0	157.3	162.7	168.1	173.5	178.8
147.5°	92.8	99.8	106.7	113.6	118.8	123.9	129.1	134.2	139.4	144.5	149.7
150°	71.8	77.5	83.2	88.9	93.7	98.5	103.4	108.2	113.0	117.8	122.7
152.5°	53.0	57.4	61.8	66.2	70.8	75.4	80.0	84.6	89.2	93.8	98.4
155°	36.9	40.4	43.9	47.4	51.5	55.5	59.6	63.6	67.7	71.7	75.8
157.5°	23.4	25.8	28.2	30.6	34.0	37.4	40.8	44.2	47.6	51.0	54.4
160°	12.5	13.9	15.4	16.8	19.5	22.3	25.0	27.8	30.5	33.3	36.0
162.5°	4.9	5.6	6.2	6.9	8.7	10.4	12.2	13.9	15.7	17.4	19.2
165°	0.7	0.8	0.9	1.0	2.0	3.0	4.0	5.0	5.9	6.9	7.9
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: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	740.6	740.6
2.5°	750.3	749.5
5°	767.4	767.2
7.5°	781.9	782.0
10°	794.7	794.9
12.5°	808.2	808.7
15°	823.4	824.5
17.5°	844.3	846.2
20°	867.6	869.9
22.5°	889.1	891.7
25°	911.3	914.4
27.5°	936.2	940.0
30°	962.1	966.7
32.5°	989.9	995.3
35°	1024.4	1030.9
37.5°	1065.3	1073.3
40°	1112.2	1121.7
42.5°	1165.0	1176.0
45°	1225.6	1238.2
47.5°	1297.4	1312.3
50°	1376.0	1392.3
52.5°	1457.5	1476.2
55°	1543.0	1563.1
57.5°	1627.6	1649.0
60°	1705.7	1727.0
62.5°	1771.4	1793.2
65°	1820.6	1841.6
67.5°	1851.0	1871.2
70°	1853.3	1872.2
72.5°	1831.4	1849.5
75°	1779.0	1796.1
77.5°	1699.0	1715.2
80°	1595.9	1611.5
82.5°	1479.2	1494.0
85°	1355.1	1368.6
87.5°	1233.9	1247.1
90°	1124.0	1136.5
92.5°	1032.2	1043.7
95°	956.2	966.7
97.5°	892.2	902.5
100°	842.2	852.2
102.5°	799.9	809.7
105°	764.3	774.1
107.5°	731.9	741.6
110°	699.6	709.0





TEST NUMBER: P201339

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
112.5°	668.0	677.4
115°	633.5	642.8
117.5°	597.5	606.3
120°	563.4	571.7
122.5°	531.0	539.1
125°	497.4	505.6
127.5°	457.0	465.1
130°	409.3	416.7
132.5°	364.2	370.3
135°	324.5	329.8
137.5°	289.1	294.3
140°	253.0	258.7
142.5°	215.8	221.2
145°	184.2	189.6
147.5°	154.8	160.0
150°	127.5	132.3
152.5°	103.0	107.6
155°	79.8	83.9
157.5°	57.8	61.2
160°	38.8	41.5
162.5°	20.9	22.7
165°	8.9	9.9
167.5°	0.0	0.0
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)