

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: P201347

Luminaire Tested: **4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28235)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U
Description: 4 ft. Low Bay Linear, 8000 lm, Frst Asym lens, 5K
Light Source: (308) 5000K CCT, 80 CRI LEDS
2UT217098A8504C, 2UT217056A8504B
Ballast/Driver: OSRAM
OT50W0900CC, OT30W0500CC

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9020.4 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Spacing Criteria (0/90/45): 2.01 / 1.17 / 1.78
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

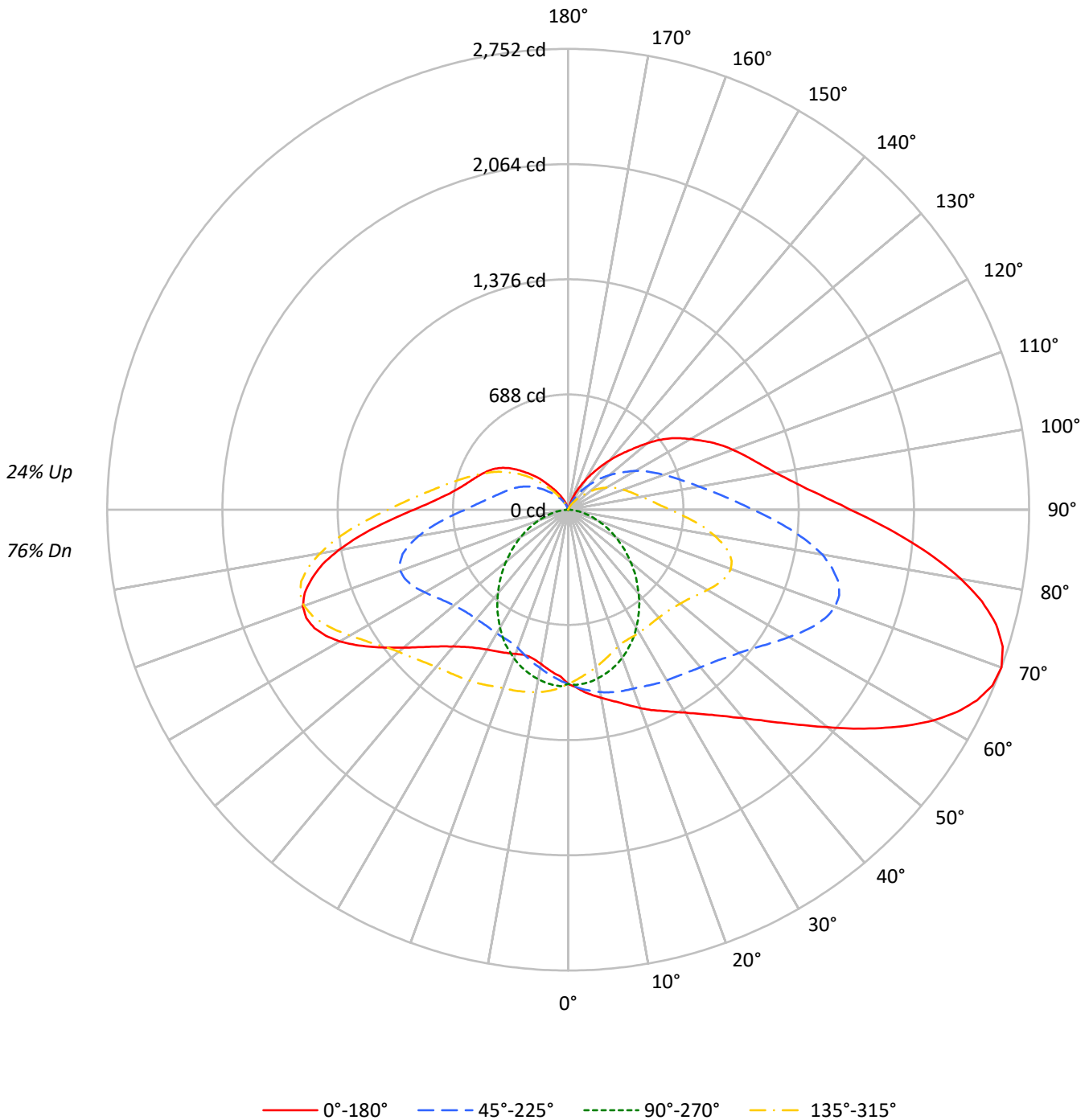
Input Watts (W): 64.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	76
1	98	90	84	78	92	86	80	75	77	72	68	69	65	62	61	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	13	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°	16760	16760	16760	16760
5°	15929	16799	14277	16915
10°	15294	16578	12545	16679
15°	14922	16275	11345	16343
20°	14874	15860	10813	15894
25°	14904	15329	10563	15400
30°	15142	14693	10436	14693
35°	15716	13958	10546	13958
40°	16721	13166	10965	13145
45°	18261	12414	11727	12326
50°	20393	11491	12930	11442
55°	22987	10610	14438	10555
60°	25693	9685	16063	9685
65°	27969	8740	17371	8778
70°	29323	7676	17964	7717
75°	29156	6564	17461	6617
80°	27399	5145	16015	5367
85°	24612	3258	13883	3618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	1.1
10°-20°	288.1	3.2
20°-30°	464.8	5.2
30°-40°	630.0	7.0
40°-50°	809.5	9.0
50°-60°	1035.3	11.5
60°-70°	1264.5	14.0
70°-80°	1291.1	14.3
80°-90°	1012.5	11.2
90°-100°	706.6	7.8
100°-110°	526.7	5.8
110°-120°	394.2	4.4
120°-130°	267.4	3.0
130°-140°	147.6	1.6
140°-150°	63.1	0.7
150°-160°	18.6	0.2
160°-170°	1.8	0.0
170°-180°	0.0	0.0
0°-30°	851.7	9.4
0°-40°	1481.7	16.4
0°-60°	3326.4	36.9
0°-90°	6894.5	76.4
90°-120°	1627.5	18.0
90°-150°	2105.6	23.3
90°-180°	2126.0	23.6
0°-180°	9020.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1040	1040	1040	1040	1040	
5°	1092	1043	979	1050	1092	106
15°	1193	989	907	993	1193	341
25°	1325	883	939	887	1325	616
35°	1496	735	1004	735	1496	946
45°	1799	573	1156	569	1799	1405
55°	2274	406	1428	404	2274	2043
65°	2693	255	1672	256	2693	2653
75°	2645	126	1584	127	2645	2765
85°	2028	28	1144	31	2028	1729
90°	1684	0	920	0	1684	927
95°	1431	0	772	0	1431	1136
105°	1143	0	621	1	1143	1214
115°	948	0	538	1	948	940
125°	743	0	433	1	743	664
135°	490	0	285	1	490	385
145°	285	0	150	1	285	183
155°	126	0	67	2	126	61
165°	18	0	10	2	18	7
175°	0	0	0	0	0	0
180°	0	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°	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1
2.5°	1060.9	1060.4	1060.0	1059.5	1059.1	1058.6	1058.2	1057.7	1057.3	1056.8	1057.1
5°	1092.1	1090.9	1089.8	1088.6	1087.5	1086.3	1085.2	1084.0	1082.9	1081.7	1081.2
7.5°	1117.1	1115.7	1114.3	1112.9	1111.5	1110.2	1108.8	1107.4	1106.0	1104.6	1103.2
10°	1140.0	1137.9	1135.8	1133.8	1131.7	1129.6	1127.5	1125.5	1123.4	1121.3	1119.7
12.5°	1166.0	1163.3	1160.7	1158.0	1155.4	1152.7	1150.1	1147.4	1144.8	1142.1	1139.3
15°	1193.0	1190.0	1187.0	1184.0	1181.0	1178.0	1175.0	1172.0	1169.0	1166.0	1161.5
17.5°	1226.3	1222.1	1218.0	1213.8	1209.7	1205.5	1201.4	1197.2	1193.1	1188.9	1182.5
20°	1260.6	1255.5	1250.4	1245.4	1240.3	1235.2	1230.1	1225.1	1220.0	1214.9	1206.2
22.5°	1295.0	1289.1	1283.2	1277.3	1271.4	1265.5	1259.6	1253.7	1247.8	1241.9	1231.0
25°	1325.1	1319.1	1313.1	1307.1	1301.1	1295.0	1289.0	1283.0	1277.0	1271.0	1258.2
27.5°	1360.5	1353.8	1347.1	1340.4	1333.7	1327.0	1320.3	1313.6	1306.9	1300.2	1285.4
30°	1399.0	1391.3	1383.5	1375.8	1368.0	1360.3	1352.5	1344.8	1337.0	1329.3	1312.3
32.5°	1444.7	1435.6	1426.5	1417.3	1408.2	1399.1	1390.0	1380.8	1371.7	1362.6	1343.0
35°	1495.7	1485.1	1474.4	1463.8	1453.2	1442.5	1431.9	1421.3	1410.6	1400.0	1377.5
37.5°	1556.0	1543.8	1531.5	1519.3	1507.0	1494.8	1482.5	1470.3	1458.0	1445.8	1419.8
40°	1625.7	1611.5	1597.3	1583.1	1568.9	1554.6	1540.4	1526.2	1512.0	1497.8	1467.9
42.5°	1705.8	1689.6	1673.4	1657.3	1641.1	1624.9	1608.7	1592.6	1576.4	1560.2	1525.4
45°	1799.4	1780.7	1762.0	1743.2	1724.5	1705.8	1687.1	1668.3	1649.6	1630.9	1590.8
47.5°	1904.5	1883.2	1862.0	1840.7	1819.4	1798.2	1776.9	1755.6	1734.4	1713.1	1667.1
50°	2021.0	1997.3	1973.6	1949.9	1926.2	1902.6	1878.9	1855.2	1831.5	1807.8	1754.7
52.5°	2146.8	2120.5	2094.1	2067.8	2041.4	2015.1	1988.7	1962.4	1936.0	1909.7	1849.6
55°	2273.7	2245.7	2217.8	2189.8	2161.8	2133.9	2105.9	2077.9	2050.0	2022.0	1954.6
57.5°	2399.6	2370.2	2340.9	2311.5	2282.2	2252.8	2223.5	2194.1	2164.8	2135.4	2061.1
60°	2517.1	2487.1	2457.0	2427.0	2396.9	2366.9	2336.8	2306.8	2276.7	2246.7	2166.1
62.5°	2617.0	2587.3	2557.6	2527.9	2498.2	2468.5	2438.8	2409.1	2379.4	2349.7	2263.9
65°	2692.9	2664.8	2636.7	2608.7	2580.6	2552.5	2524.4	2496.4	2468.3	2440.2	2350.2
67.5°	2741.8	2714.4	2687.0	2659.6	2632.2	2604.9	2577.5	2550.1	2522.7	2495.3	2403.8
70°	2752.2	2726.3	2700.4	2674.5	2648.6	2622.8	2596.9	2571.0	2545.1	2519.2	2427.8
72.5°	2719.9	2695.4	2670.9	2646.4	2621.9	2597.4	2572.9	2548.4	2523.9	2499.4	2410.2
75°	2645.1	2622.1	2599.1	2576.1	2553.1	2530.1	2507.1	2484.1	2461.1	2438.1	2352.8
77.5°	2529.6	2508.1	2486.6	2465.1	2443.6	2422.1	2400.6	2379.1	2357.6	2336.1	2255.9
80°	2380.9	2360.8	2340.7	2320.6	2300.5	2280.3	2260.2	2240.1	2220.0	2199.9	2126.6
82.5°	2209.2	2190.1	2171.1	2152.0	2132.9	2113.9	2094.8	2075.7	2056.7	2037.6	1971.1
85°	2028.3	2010.3	1992.2	1974.2	1956.2	1938.1	1920.1	1902.1	1884.0	1866.0	1806.2
87.5°	1848.3	1831.1	1813.9	1796.6	1779.4	1762.2	1745.0	1727.7	1710.5	1693.3	1639.9
90°	1684.0	1667.8	1651.6	1635.5	1619.3	1603.1	1586.9	1570.8	1554.6	1538.4	1490.0
92.5°	1546.7	1531.4	1516.2	1500.9	1485.7	1470.4	1455.2	1439.9	1424.7	1409.4	1365.1
95°	1431.2	1416.6	1402.1	1387.5	1373.0	1358.4	1343.9	1329.3	1314.8	1300.2	1259.1
97.5°	1336.6	1322.4	1308.2	1293.9	1279.7	1265.5	1251.3	1237.0	1222.8	1208.6	1169.7
100°	1259.6	1245.6	1231.6	1217.6	1203.6	1189.7	1175.7	1161.7	1147.7	1133.7	1095.9
102.5°	1196.2	1182.4	1168.7	1154.9	1141.2	1127.4	1113.7	1099.9	1086.2	1072.4	1035.4
105°	1143.1	1129.7	1116.3	1102.9	1089.5	1076.1	1062.7	1049.3	1035.9	1022.5	985.7
107.5°	1094.2	1080.8	1067.4	1054.0	1040.6	1027.2	1013.8	1000.4	987.0	973.6	937.5
110°	1046.4	1033.0	1019.6	1006.2	992.8	979.3	965.9	952.5	939.1	925.7	890.5



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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°	998.5	985.1	971.7	958.3	944.9	931.5	918.1	904.7	891.3	877.9	843.8
115°	947.6	934.3	921.0	907.7	894.4	881.1	867.8	854.5	841.2	827.9	795.3
117.5°	893.5	880.9	868.3	855.7	843.1	830.5	817.9	805.3	792.7	780.1	749.0
120°	843.5	831.5	819.5	807.5	795.5	783.4	771.4	759.4	747.4	735.4	705.2
122.5°	794.7	783.3	771.8	760.4	748.9	737.5	726.0	714.6	703.1	691.7	661.9
125°	742.7	731.5	720.3	709.1	697.9	686.6	675.4	664.2	653.0	641.8	613.2
127.5°	683.4	672.6	661.9	651.1	640.4	629.6	618.9	608.1	597.4	586.6	560.6
130°	616.8	606.7	596.7	586.6	576.6	566.5	556.5	546.4	536.4	526.3	503.4
132.5°	549.2	540.6	532.1	523.5	515.0	506.4	497.9	489.3	480.8	472.2	451.7
135°	489.9	482.7	475.6	468.4	461.2	454.1	446.9	439.7	432.6	425.4	406.6
137.5°	436.9	430.3	423.7	417.1	410.5	404.0	397.4	390.8	384.2	377.6	360.3
140°	383.8	377.9	372.0	366.1	360.2	354.4	348.5	342.6	336.7	330.8	315.3
142.5°	332.8	327.7	322.6	317.6	312.5	307.4	302.3	297.3	292.2	287.1	273.3
145°	285.0	280.4	275.8	271.1	266.5	261.9	257.3	252.6	248.0	243.4	231.6
147.5°	239.2	235.5	231.8	228.1	224.4	220.7	217.0	213.3	209.6	205.9	195.6
150°	198.7	195.5	192.2	189.0	185.7	182.5	179.2	176.0	172.7	169.5	160.6
152.5°	161.2	158.4	155.7	152.9	150.1	147.4	144.6	141.8	139.1	136.3	128.7
155°	125.9	123.6	121.3	119.0	116.7	114.3	112.0	109.7	107.4	105.1	98.5
157.5°	93.6	91.8	89.9	88.1	86.2	84.4	82.5	80.7	78.8	77.0	71.6
160°	63.4	61.9	60.4	58.9	57.4	55.9	54.4	52.9	51.4	49.9	46.1
162.5°	36.4	35.4	34.3	33.3	32.2	31.2	30.1	29.1	28.0	27.0	24.8
165°	17.7	17.1	16.5	16.0	15.4	14.8	14.2	13.7	13.1	12.5	11.3
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



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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°	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1
2.5°	1057.5	1057.8	1058.2	1058.5	1058.9	1059.2	1059.6	1059.9	1057.8	1055.7	1053.7
5°	1080.8	1080.3	1079.9	1079.4	1079.0	1078.5	1078.1	1077.6	1074.4	1071.1	1067.9
7.5°	1101.8	1100.4	1099.0	1097.7	1096.3	1094.9	1093.5	1092.1	1087.7	1083.3	1078.9
10°	1118.1	1116.4	1114.8	1113.2	1111.6	1109.9	1108.3	1106.7	1100.7	1094.7	1088.7
12.5°	1136.5	1133.8	1131.0	1128.2	1125.4	1122.7	1119.9	1117.1	1109.6	1102.1	1094.6
15°	1157.0	1152.5	1148.0	1143.4	1138.9	1134.4	1129.9	1125.4	1116.4	1107.4	1098.4
17.5°	1176.2	1169.8	1163.5	1157.1	1150.8	1144.4	1138.1	1131.7	1120.9	1110.2	1099.4
20°	1197.6	1188.9	1180.2	1171.6	1162.9	1154.2	1145.6	1136.9	1124.3	1111.7	1099.1
22.5°	1220.2	1209.3	1198.4	1187.6	1176.7	1165.8	1155.0	1144.1	1129.1	1114.1	1099.0
25°	1245.4	1232.5	1219.7	1206.9	1194.1	1181.2	1168.4	1155.6	1137.6	1119.5	1101.5
27.5°	1270.6	1255.8	1241.0	1226.2	1211.4	1196.6	1181.8	1167.0	1145.6	1124.2	1102.9
30°	1295.3	1278.3	1261.3	1244.4	1227.4	1210.4	1193.4	1176.4	1151.6	1126.7	1101.9
32.5°	1323.3	1303.7	1284.0	1264.4	1244.7	1225.1	1205.4	1185.8	1157.8	1129.8	1101.9
35°	1354.9	1332.4	1309.9	1287.3	1264.8	1242.3	1219.7	1197.2	1165.5	1133.9	1102.2
37.5°	1393.8	1367.8	1341.8	1315.8	1289.8	1263.8	1237.8	1211.8	1176.4	1141.1	1105.7
40°	1437.9	1408.0	1378.1	1348.1	1318.2	1288.3	1258.3	1228.4	1189.5	1150.5	1111.6
42.5°	1490.6	1455.8	1421.0	1386.3	1351.5	1316.7	1281.9	1247.1	1204.2	1161.3	1118.5
45°	1550.7	1510.6	1470.5	1430.4	1390.3	1350.2	1310.1	1270.0	1222.7	1175.5	1128.2
47.5°	1621.1	1575.1	1529.1	1483.1	1437.1	1391.1	1345.1	1299.1	1246.7	1194.4	1142.0
50°	1701.7	1648.6	1595.6	1542.5	1489.5	1436.4	1383.4	1330.3	1272.7	1215.2	1157.6
52.5°	1789.5	1729.4	1669.3	1609.2	1549.1	1489.0	1428.9	1368.8	1305.2	1241.7	1178.1
55°	1887.2	1819.9	1752.5	1685.1	1617.7	1550.4	1483.0	1415.6	1345.5	1275.3	1205.2
57.5°	1986.8	1912.5	1838.2	1763.8	1689.5	1615.2	1540.9	1466.6	1389.5	1312.4	1235.3
60°	2085.6	2005.0	1924.5	1843.9	1763.4	1682.8	1602.3	1521.7	1437.5	1353.2	1269.0
62.5°	2178.2	2092.4	2006.7	1920.9	1835.2	1749.4	1663.7	1577.9	1486.5	1395.1	1303.6
65°	2260.1	2170.1	2080.1	1990.0	1900.0	1810.0	1719.9	1629.9	1531.4	1433.0	1334.5
67.5°	2312.2	2220.7	2129.2	2037.6	1946.1	1854.6	1763.0	1671.5	1567.0	1462.5	1358.1
70°	2336.4	2245.0	2153.6	2062.1	1970.7	1879.3	1787.9	1696.5	1587.5	1478.5	1369.5
72.5°	2321.0	2231.8	2142.6	2053.3	1964.1	1874.9	1785.7	1696.5	1585.4	1474.4	1363.3
75°	2267.5	2182.2	2096.9	2011.7	1926.4	1841.1	1755.8	1670.5	1559.7	1448.8	1338.0
77.5°	2175.7	2095.5	2015.3	1935.1	1854.9	1774.7	1694.5	1614.3	1506.5	1398.6	1290.8
80°	2053.3	1980.1	1906.8	1833.5	1760.2	1687.0	1613.7	1540.4	1437.2	1334.0	1230.8
82.5°	1904.7	1838.2	1771.8	1705.3	1638.9	1572.4	1506.0	1439.5	1343.4	1247.2	1151.1
85°	1746.5	1686.7	1627.0	1567.2	1507.5	1447.7	1388.0	1328.2	1239.9	1151.6	1063.3
87.5°	1586.5	1533.1	1479.7	1426.4	1373.0	1319.6	1266.2	1212.8	1132.7	1052.6	972.5
90°	1441.5	1393.1	1344.7	1296.2	1247.8	1199.4	1150.9	1102.5	1030.0	957.6	885.1
92.5°	1320.9	1276.6	1232.3	1188.1	1143.8	1099.5	1055.3	1011.0	945.1	879.2	813.4
95°	1217.9	1176.8	1135.6	1094.5	1053.3	1012.2	971.0	929.9	869.5	809.0	748.6
97.5°	1130.7	1091.8	1052.8	1013.9	974.9	936.0	897.0	858.1	802.2	746.2	690.3
100°	1058.1	1020.3	982.5	944.8	907.0	869.2	831.4	793.6	741.6	689.6	637.6
102.5°	998.4	961.4	924.4	887.5	850.5	813.5	776.5	739.5	690.3	641.0	591.8
105°	949.0	912.2	875.5	838.7	802.0	765.2	728.5	691.7	644.8	597.9	550.9
107.5°	901.5	865.4	829.3	793.3	757.2	721.1	685.1	649.0	603.9	558.9	513.8
110°	855.2	820.0	784.7	749.5	714.2	679.0	643.7	608.5	565.3	522.1	478.8



TEST NUMBER: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	809.7	775.6	741.5	707.4	673.3	639.2	605.1	571.0	529.6	488.3	446.9
115°	762.7	730.1	697.5	665.0	632.4	599.8	567.2	534.6	495.2	455.8	416.4
117.5°	717.9	686.8	655.7	624.7	593.6	562.5	531.4	500.3	462.9	425.4	388.0
120°	675.1	644.9	614.7	584.6	554.4	524.2	494.1	463.9	428.8	393.6	358.5
122.5°	632.1	602.2	572.4	542.6	512.8	482.9	453.1	423.3	390.9	358.6	326.2
125°	584.7	556.1	527.6	499.0	470.5	441.9	413.4	384.8	355.1	325.4	295.7
127.5°	534.6	508.6	482.6	456.6	430.6	404.6	378.6	352.6	324.9	297.1	269.4
130°	480.5	457.7	434.8	411.9	389.0	366.2	343.3	320.4	294.7	269.1	243.4
132.5°	431.3	410.8	390.4	369.9	349.5	329.0	308.6	288.1	264.5	240.9	217.4
135°	387.7	368.9	350.1	331.2	312.4	293.6	274.7	255.9	234.5	213.1	191.7
137.5°	342.9	325.6	308.2	290.9	273.5	256.2	238.8	221.5	202.6	183.6	164.7
140°	299.8	284.3	268.8	253.4	237.9	222.4	206.9	191.4	174.3	157.2	140.1
142.5°	259.6	245.8	232.1	218.3	204.6	190.8	177.1	163.3	148.2	133.0	117.9
145°	219.8	208.0	196.2	184.5	172.7	160.9	149.1	137.3	124.0	110.7	97.4
147.5°	185.3	175.1	164.8	154.5	144.2	134.0	123.7	113.4	102.1	90.7	79.4
150°	151.7	142.8	133.9	125.1	116.2	107.3	98.4	89.5	80.4	71.2	62.1
152.5°	121.0	113.4	105.8	98.1	90.5	82.9	75.2	67.6	60.6	53.5	46.5
155°	91.9	85.3	78.7	72.2	65.6	59.0	52.4	45.8	40.8	35.8	30.9
157.5°	66.1	60.7	55.3	49.8	44.4	39.0	33.5	28.1	25.0	21.9	18.7
160°	42.3	38.5	34.7	30.8	27.0	23.2	19.4	15.6	13.9	12.1	10.4
162.5°	22.6	20.4	18.2	16.1	13.9	11.7	9.5	7.3	6.5	5.7	4.9
165°	10.2	9.0	7.9	6.7	5.6	4.4	3.3	2.1	1.9	1.6	1.4
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: P201347

CATALOG NUMBER: 4LBLEDD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1
2.5°	1051.6	1049.5	1047.4	1045.4	1043.3	1041.2	1041.9	1042.6	1043.3	1044.0	1044.6
5°	1064.7	1061.4	1058.2	1055.0	1051.7	1048.5	1047.9	1047.3	1046.8	1046.2	1045.6
7.5°	1074.5	1070.2	1065.8	1061.4	1057.0	1052.6	1050.8	1048.9	1047.1	1045.2	1043.4
10°	1082.7	1076.6	1070.6	1064.6	1058.6	1052.6	1049.3	1045.9	1042.6	1039.2	1035.9
12.5°	1087.1	1079.5	1072.0	1064.5	1057.0	1049.5	1044.8	1040.0	1035.3	1030.5	1025.8
15°	1089.4	1080.3	1071.3	1062.3	1053.3	1044.3	1038.2	1032.1	1025.9	1019.8	1013.7
17.5°	1088.7	1077.9	1067.2	1056.4	1045.7	1034.9	1027.4	1019.9	1012.4	1004.9	997.3
20°	1086.5	1073.9	1061.3	1048.7	1036.1	1023.5	1014.5	1005.5	996.5	987.5	978.4
22.5°	1084.0	1069.0	1054.0	1038.9	1023.9	1008.9	998.3	987.6	977.0	966.4	955.7
25°	1083.5	1065.4	1047.4	1029.4	1011.3	993.3	981.1	968.8	956.6	944.3	932.1
27.5°	1081.5	1060.1	1038.7	1017.4	996.0	974.6	960.7	946.9	933.0	919.1	905.3
30°	1077.0	1052.2	1027.3	1002.5	977.6	952.8	937.3	921.8	906.3	890.8	875.4
32.5°	1073.9	1045.9	1017.9	990.0	962.0	934.0	916.4	898.9	881.3	863.7	846.2
35°	1070.5	1038.9	1007.2	975.5	943.9	912.2	892.6	872.9	853.3	833.6	814.0
37.5°	1070.3	1035.0	999.6	964.2	928.9	893.5	871.8	850.0	828.3	806.6	784.8
40°	1072.6	1033.7	994.7	955.8	916.8	877.9	852.9	828.0	803.0	778.0	753.1
42.5°	1075.6	1032.7	989.8	947.0	904.1	861.2	833.4	805.5	777.7	749.8	722.0
45°	1080.9	1033.7	986.4	939.1	891.9	844.6	814.4	784.3	754.1	723.9	693.8
47.5°	1089.7	1037.3	985.0	932.6	880.3	827.9	794.7	761.6	728.4	695.2	662.1
50°	1100.1	1042.5	985.0	927.4	869.9	812.3	776.1	740.0	703.8	667.6	631.5
52.5°	1114.5	1051.0	987.4	923.8	860.3	796.7	757.8	718.8	679.9	640.9	602.0
55°	1135.0	1064.9	994.7	924.6	854.4	784.3	742.2	700.2	658.1	616.0	574.0
57.5°	1158.2	1081.2	1004.1	927.0	849.9	772.8	727.6	682.4	637.2	592.0	546.9
60°	1184.7	1100.5	1016.2	932.0	847.7	763.5	715.1	666.6	618.2	569.8	521.3
62.5°	1212.2	1120.8	1029.4	937.9	846.5	755.1	703.6	652.0	600.5	548.9	497.4
65°	1236.0	1137.6	1039.1	940.6	842.2	743.7	689.4	635.1	580.7	526.4	472.1
67.5°	1253.6	1149.1	1044.6	940.2	835.7	731.2	674.2	617.2	560.3	503.3	446.3
70°	1260.5	1151.6	1042.6	933.6	824.6	715.6	656.8	598.0	539.1	480.3	421.5
72.5°	1252.2	1141.2	1030.1	919.0	808.0	696.9	636.7	576.5	516.3	456.1	395.8
75°	1227.2	1116.3	1005.5	894.7	783.8	673.0	612.2	551.4	490.6	429.8	369.1
77.5°	1183.0	1075.1	967.3	859.5	751.6	643.8	583.1	522.5	461.8	401.1	340.5
80°	1127.6	1024.4	921.2	818.0	714.8	611.6	551.6	491.6	431.7	371.7	311.7
82.5°	1054.9	958.8	862.6	766.5	670.3	574.2	515.8	457.5	399.1	340.7	282.4
85°	975.0	886.8	798.5	710.2	621.9	533.6	477.4	421.3	365.1	308.9	252.8
87.5°	892.4	812.4	732.3	652.2	572.1	492.0	438.5	385.0	331.5	278.0	224.4
90°	812.7	740.2	667.8	595.3	522.9	450.4	400.4	350.3	300.3	250.2	200.2
92.5°	747.5	681.6	615.7	549.9	484.0	418.1	371.6	325.2	278.7	232.3	185.8
95°	688.1	627.7	567.2	506.8	446.3	385.9	343.0	300.1	257.3	214.4	171.5
97.5°	634.4	578.4	522.5	466.6	410.6	354.7	315.3	275.9	236.5	197.1	157.6
100°	585.6	533.6	481.6	429.6	377.6	325.6	289.4	253.2	217.1	180.9	144.7
102.5°	542.6	493.3	444.1	394.9	345.6	296.4	263.5	230.5	197.6	164.7	131.7
105°	504.0	457.1	410.2	363.2	316.3	269.4	239.5	209.5	179.6	149.7	119.7
107.5°	468.7	423.7	378.6	333.5	288.5	243.4	216.4	189.3	162.3	135.2	108.2
110°	435.6	392.4	349.2	305.9	262.7	219.5	195.1	170.7	146.3	121.9	97.6



TEST NUMBER: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	405.5	364.2	322.8	281.4	240.1	198.7	176.6	154.5	132.5	110.4	88.3
115°	377.0	337.5	298.1	258.7	219.3	179.9	159.9	139.9	119.9	99.9	80.0
117.5°	350.5	313.1	275.6	238.2	200.7	163.3	145.2	127.0	108.9	90.7	72.6
120°	323.4	288.2	253.1	218.0	182.8	147.7	131.3	114.9	98.5	82.1	65.6
122.5°	293.9	261.5	229.2	196.8	164.5	132.1	117.4	102.7	88.1	73.4	58.7
125°	266.0	236.3	206.6	176.9	147.2	117.5	104.4	91.4	78.3	65.3	52.2
127.5°	241.7	213.9	186.2	158.5	130.7	103.0	91.6	80.1	68.7	57.2	45.8
130°	217.8	192.1	166.5	140.8	115.2	89.5	79.6	69.6	59.7	49.7	39.8
132.5°	193.8	170.2	146.6	123.1	99.5	75.9	67.5	59.0	50.6	42.2	33.7
135°	170.3	149.0	127.6	106.2	84.8	63.4	56.4	49.3	42.3	35.2	28.2
137.5°	145.7	126.8	107.8	88.9	69.9	51.0	45.3	39.7	34.0	28.3	22.7
140°	123.0	105.8	88.7	71.6	54.5	37.4	33.2	29.1	24.9	20.8	16.6
142.5°	102.7	87.6	72.4	57.3	42.1	27.0	24.0	21.0	18.0	15.0	12.0
145°	84.1	70.9	57.6	44.3	31.0	17.7	15.7	13.8	11.8	9.8	7.9
147.5°	68.1	56.7	45.4	34.1	22.7	11.4	10.1	8.9	7.6	6.3	5.1
150°	53.0	43.8	34.7	25.6	16.4	7.3	6.5	5.7	4.9	4.1	3.2
152.5°	39.4	32.4	25.3	18.3	11.2	4.2	3.7	3.3	2.8	2.3	1.9
155°	25.9	20.9	15.9	11.0	6.0	1.0	0.9	0.8	0.7	0.6	0.4
157.5°	15.6	12.5	9.4	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
160°	8.7	6.9	5.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	4.1	3.2	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.2	0.9	0.7	0.5	0.2	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: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1
2.5°	1045.3	1046.0	1046.7	1047.4	1044.9	1042.3	1039.8	1037.2	1034.7	1032.1	1029.6
5°	1045.0	1044.5	1043.9	1043.3	1039.7	1036.1	1032.5	1028.9	1025.4	1021.8	1018.2
7.5°	1041.5	1039.7	1037.8	1036.0	1031.3	1026.5	1021.8	1017.0	1012.3	1007.5	1002.8
10°	1032.5	1029.2	1025.8	1022.5	1017.2	1011.9	1006.5	1001.2	995.9	990.6	985.2
12.5°	1021.0	1016.3	1011.5	1006.8	1000.9	995.0	989.1	983.2	977.4	971.5	965.6
15°	1007.6	1001.4	995.3	989.2	982.6	976.0	969.4	962.8	956.3	949.7	943.1
17.5°	989.8	982.3	974.8	967.3	960.4	953.4	946.5	939.6	932.6	925.7	918.8
20°	969.4	960.4	951.4	942.4	935.2	928.1	920.9	913.7	906.6	899.4	892.2
22.5°	945.1	934.5	923.8	913.2	906.2	899.1	892.1	885.0	878.0	870.9	863.9
25°	919.8	907.6	895.3	883.1	876.0	869.0	861.9	854.9	847.8	840.8	833.7
27.5°	891.4	877.5	863.7	849.8	843.1	836.4	829.7	823.0	816.3	809.6	802.9
30°	859.9	844.4	828.9	813.4	807.3	801.2	795.0	788.9	782.8	776.7	770.5
32.5°	828.6	811.0	793.5	775.9	770.5	765.1	759.6	754.2	748.8	743.4	737.9
35°	794.3	774.7	755.0	735.4	731.2	727.1	722.9	718.7	714.6	710.4	706.2
37.5°	763.1	741.4	719.6	697.9	695.4	692.8	690.3	687.7	685.2	682.6	680.1
40°	728.1	703.1	678.2	653.2	653.1	653.0	652.9	652.8	652.6	652.5	652.4
42.5°	694.1	666.3	638.4	610.6	613.0	615.4	617.9	620.3	622.7	625.1	627.6
45°	663.6	633.4	603.3	573.1	577.5	581.9	586.3	590.7	595.0	599.4	603.8
47.5°	628.9	595.7	562.6	529.4	536.6	543.7	550.9	558.1	565.2	572.4	579.6
50°	595.3	559.1	523.0	486.8	496.7	506.7	516.6	526.5	536.5	546.4	556.3
52.5°	563.0	524.1	485.1	446.2	458.7	471.2	483.7	496.2	508.6	521.1	533.6
55°	531.9	489.8	447.8	405.7	420.8	436.0	451.1	466.2	481.4	496.5	511.6
57.5°	501.7	456.5	411.3	366.1	383.9	401.7	419.5	437.3	455.1	472.9	490.7
60°	472.9	424.5	376.0	327.6	348.1	368.5	389.0	409.4	429.9	450.3	470.8
62.5°	445.8	394.3	342.7	291.2	314.0	336.7	359.5	382.3	405.0	427.8	450.6
65°	417.8	363.4	309.1	254.8	279.9	305.0	330.0	355.1	380.2	405.3	430.3
67.5°	389.3	332.4	275.4	218.4	245.7	273.0	300.2	327.5	354.8	382.1	409.3
70°	362.7	303.8	245.0	186.2	215.0	243.8	272.5	301.3	330.1	358.9	387.6
72.5°	335.6	275.4	215.2	155.0	184.9	214.9	244.8	274.7	304.7	334.6	364.5
75°	308.3	247.5	186.7	125.9	156.5	187.1	217.8	248.4	279.0	309.6	340.3
77.5°	279.8	219.1	158.5	97.8	128.8	159.7	190.7	221.7	252.6	283.6	314.6
80°	251.7	191.8	131.8	71.8	102.7	133.5	164.4	195.2	226.1	256.9	287.8
82.5°	224.0	165.6	107.3	48.9	79.2	109.5	139.7	170.0	200.3	230.6	260.8
85°	196.6	140.4	84.3	28.1	57.7	87.3	116.9	146.5	176.0	205.6	235.2
87.5°	170.9	117.4	63.9	10.4	38.6	66.8	95.0	123.2	151.4	179.6	207.8
90°	150.1	100.1	50.0	0.0	26.5	52.9	79.4	105.9	132.3	158.8	185.3
92.5°	139.4	92.9	46.5	0.0	24.5	49.0	73.5	98.0	122.5	147.0	171.5
95°	128.6	85.8	42.9	0.0	22.7	45.3	68.0	90.6	113.3	135.9	158.6
97.5°	118.2	78.8	39.4	0.0	21.0	42.1	63.1	84.1	105.2	126.2	147.2
100°	108.5	72.4	36.2	0.0	19.3	38.6	57.9	77.2	96.5	115.8	135.1
102.5°	98.8	65.9	32.9	0.0	17.8	35.6	53.4	71.2	89.0	106.8	124.6
105°	89.8	59.9	29.9	0.0	16.3	32.6	48.9	65.2	81.5	97.8	114.1
107.5°	81.1	54.1	27.0	0.0	14.9	29.8	44.7	59.6	74.6	89.5	104.4
110°	73.2	48.8	24.4	0.0	13.5	27.0	40.6	54.1	67.6	81.1	94.7



TEST NUMBER: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	66.2	44.2	22.1	0.0	12.3	24.5	36.8	49.0	61.3	73.5	85.8
115°	60.0	40.0	20.0	0.0	10.9	21.7	32.6	43.5	54.3	65.2	76.1
117.5°	54.4	36.3	18.1	0.0	9.7	19.4	29.1	38.8	48.6	58.3	68.0
120°	49.2	32.8	16.4	0.0	8.7	17.3	26.0	34.7	43.3	52.0	60.7
122.5°	44.0	29.4	14.7	0.0	7.7	15.5	23.2	31.0	38.7	46.5	54.2
125°	39.2	26.1	13.1	0.0	6.8	13.6	20.5	27.3	34.1	40.9	47.8
127.5°	34.3	22.9	11.4	0.0	5.8	11.6	17.3	23.1	28.9	34.7	40.4
130°	29.8	19.9	9.9	0.0	4.9	9.7	14.6	19.4	24.3	29.1	34.0
132.5°	25.3	16.9	8.4	0.0	3.9	7.9	11.8	15.7	19.7	23.6	27.5
135°	21.1	14.1	7.0	0.0	3.1	6.2	9.4	12.5	15.6	18.7	21.9
137.5°	17.0	11.3	5.7	0.0	2.3	4.6	6.9	9.2	11.6	13.9	16.2
140°	12.5	8.3	4.2	0.0	1.6	3.2	4.9	6.5	8.1	9.7	11.4
142.5°	9.0	6.0	3.0	0.0	0.9	1.8	2.8	3.7	4.6	5.5	6.5
145°	5.9	3.9	2.0	0.0	0.6	1.2	1.7	2.3	2.9	3.5	4.0
147.5°	3.8	2.5	1.3	0.0	0.3	0.7	1.0	1.4	1.7	2.1	2.4
150°	2.4	1.6	0.8	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8
152.5°	1.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.3	0.2	0.1	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: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1
2.5°	1027.0	1024.5	1023.9	1023.3	1022.8	1022.2	1021.6	1021.0	1020.5	1019.9	1019.3
5°	1014.6	1011.0	1009.5	1008.0	1006.5	1005.0	1003.5	1002.0	1000.5	999.0	997.5
7.5°	998.0	993.3	991.5	989.6	987.8	985.9	984.1	982.2	980.4	978.5	976.7
10°	979.9	974.6	972.3	970.0	967.7	965.4	963.0	960.7	958.4	956.1	953.8
12.5°	959.7	953.8	951.4	949.0	946.5	944.1	941.7	939.3	936.8	934.4	932.0
15°	936.5	929.9	927.7	925.5	923.3	921.1	918.9	916.7	914.5	912.3	910.1
17.5°	911.8	904.9	903.1	901.2	899.4	897.5	895.7	893.8	892.0	890.1	888.3
20°	885.1	877.9	877.0	876.1	875.1	874.2	873.3	872.4	871.4	870.5	869.6
22.5°	856.8	849.8	850.6	851.4	852.2	853.0	853.9	854.7	855.5	856.3	857.1
25°	826.7	819.6	823.2	826.8	830.4	834.0	837.5	841.1	844.7	848.3	851.9
27.5°	796.2	789.5	796.2	802.9	809.6	816.3	823.0	829.7	836.4	843.1	849.8
30°	764.4	758.3	768.2	778.2	788.1	798.0	808.0	817.9	827.8	837.8	847.7
32.5°	732.5	727.1	740.2	753.2	766.3	779.3	792.4	805.4	818.5	831.5	844.6
35°	702.1	697.9	714.0	730.0	746.1	762.2	778.2	794.3	810.4	826.4	842.5
37.5°	677.5	675.0	693.4	711.8	730.1	748.5	766.9	785.3	803.6	822.0	840.4
40°	652.3	652.2	673.2	694.3	715.3	736.3	757.4	778.4	799.4	820.5	841.5
42.5°	630.0	632.4	656.0	679.6	703.1	726.7	750.3	773.9	797.4	821.0	844.6
45°	608.2	612.6	639.1	665.5	692.0	718.5	744.9	771.4	797.9	824.3	850.8
47.5°	586.7	593.9	623.5	653.1	682.7	712.3	741.8	771.4	801.0	830.6	860.2
50°	566.3	576.2	609.1	642.1	675.0	708.0	740.9	773.9	806.8	839.8	872.7
52.5°	546.1	558.6	595.2	631.9	668.5	705.1	741.8	778.4	815.0	851.7	888.3
55°	526.8	541.9	582.6	623.3	663.9	704.6	745.3	786.0	826.6	867.3	908.0
57.5°	508.5	526.3	571.5	616.7	661.9	707.1	752.2	797.4	842.6	887.8	933.0
60°	491.2	511.7	561.4	611.1	660.8	710.5	760.2	809.9	859.6	909.3	959.0
62.5°	473.3	496.1	550.5	605.0	659.4	713.8	768.3	822.7	877.1	931.6	986.0
65°	455.4	480.5	539.3	598.2	657.0	715.8	774.7	833.5	892.3	951.2	1010.0
67.5°	436.6	463.9	526.7	589.4	652.2	714.9	777.7	840.4	903.2	965.9	1028.7
70°	416.4	445.2	510.6	576.0	641.4	706.8	772.3	837.7	903.1	968.5	1033.9
72.5°	394.5	424.4	491.0	557.5	624.1	690.7	757.2	823.8	890.4	956.9	1023.5
75°	370.9	401.5	467.6	533.7	599.8	665.9	732.0	798.1	864.2	930.3	996.4
77.5°	345.5	376.5	439.8	503.2	566.5	629.8	693.2	756.5	819.8	883.2	946.5
80°	318.6	349.5	409.0	468.5	528.1	587.6	647.1	706.6	766.2	825.7	885.2
82.5°	291.1	321.4	377.1	432.8	488.5	544.2	599.9	655.6	711.3	767.0	822.7
85°	264.8	294.4	344.4	394.5	444.5	494.5	544.6	594.6	644.6	694.7	744.7
87.5°	236.0	264.2	309.4	354.6	399.8	445.0	490.1	535.3	580.5	625.7	670.9
90°	211.7	238.2	279.5	320.7	362.0	403.2	444.5	485.7	527.0	568.2	609.5
92.5°	196.0	220.5	257.5	294.5	331.5	368.5	405.4	442.4	479.4	516.4	553.4
95°	181.2	203.9	238.3	272.8	307.2	341.6	376.1	410.5	444.9	479.4	513.8
97.5°	168.3	189.3	221.2	253.1	285.0	316.9	348.8	380.7	412.6	444.5	476.4
100°	154.4	173.7	203.7	233.8	263.8	293.9	323.9	354.0	384.0	414.1	444.1
102.5°	142.4	160.2	188.7	217.3	245.8	274.4	302.9	331.5	360.0	388.6	417.1
105°	130.4	146.7	174.1	201.5	228.9	256.3	283.6	311.0	338.4	365.8	393.2
107.5°	119.3	134.2	160.4	186.7	212.9	239.1	265.4	291.6	317.8	344.1	370.3
110°	108.2	121.7	147.0	172.3	197.6	222.9	248.3	273.6	298.9	324.2	349.5



TEST NUMBER: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	98.0	110.3	134.6	158.8	183.1	207.4	231.6	255.9	280.2	304.4	328.7
115°	86.9	97.8	121.1	144.5	167.8	191.2	214.5	237.9	261.2	284.6	307.9
117.5°	77.7	87.4	109.5	131.5	153.6	175.7	197.7	219.8	241.9	263.9	286.0
120°	69.3	78.0	98.7	119.4	140.1	160.8	181.4	202.1	222.8	243.5	264.2
122.5°	62.0	69.7	88.7	107.6	126.6	145.5	164.5	183.4	202.4	221.3	240.3
125°	54.6	61.4	78.7	96.1	113.4	130.7	148.1	165.4	182.7	200.1	217.4
127.5°	46.2	52.0	67.7	83.4	99.2	114.9	130.6	146.3	162.1	177.8	193.5
130°	38.8	43.7	57.2	70.7	84.3	97.8	111.3	124.8	138.4	151.9	165.4
132.5°	31.5	35.4	47.0	58.5	70.1	81.6	93.2	104.7	116.3	127.8	139.4
135°	25.0	28.1	38.2	48.2	58.3	68.3	78.4	88.4	98.5	108.5	118.6
137.5°	18.5	20.8	29.6	38.4	47.2	56.0	64.7	73.5	82.3	91.1	99.9
140°	13.0	14.6	22.2	29.8	37.5	45.1	52.7	60.3	68.0	75.6	83.2
142.5°	7.4	8.3	14.9	21.5	28.1	34.7	41.2	47.8	54.4	61.0	67.6
145°	4.6	5.2	10.6	16.1	21.5	26.9	32.4	37.8	43.2	48.7	54.1
147.5°	2.8	3.1	7.4	11.7	15.9	20.2	24.5	28.8	33.0	37.3	41.6
150°	0.9	1.0	4.4	7.7	11.1	14.4	17.8	21.1	24.5	27.8	31.2
152.5°	0.0	0.0	2.4	4.8	7.3	9.7	12.1	14.5	17.0	19.4	21.8
155°	0.0	0.0	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5
157.5°	0.0	0.0	0.6	1.2	1.7	2.3	2.9	3.5	4.0	4.6	5.2
160°	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0
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: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1
2.5°	1018.0	1016.8	1015.5	1014.2	1013.0	1011.7	1010.4	1009.2	1007.9	1006.9	1005.8
5°	996.0	994.5	993.0	991.5	990.0	988.5	987.0	985.5	984.0	983.4	982.8
7.5°	975.1	973.5	971.8	970.2	968.6	967.0	965.3	963.7	962.1	961.5	960.9
10°	952.4	951.0	949.6	948.2	946.9	945.5	944.1	942.7	941.3	940.6	939.9
12.5°	930.8	929.7	928.5	927.4	926.2	925.1	923.9	922.8	921.6	921.1	920.7
15°	909.5	908.9	908.4	907.8	907.2	906.6	906.1	905.5	904.9	905.1	905.4
17.5°	889.2	890.1	891.1	892.0	892.9	893.8	894.8	895.7	896.6	897.8	898.9
20°	872.9	876.3	879.6	883.0	886.3	889.7	893.0	896.4	899.7	901.6	903.4
22.5°	862.6	868.2	873.7	879.3	884.8	890.4	895.9	901.5	907.0	909.3	911.6
25°	858.9	866.0	873.0	880.1	887.1	894.2	901.2	908.3	915.3	918.0	920.6
27.5°	857.9	866.0	874.1	882.2	890.2	898.3	906.4	914.5	922.6	925.7	928.8
30°	856.9	866.2	875.4	884.7	893.9	903.2	912.4	921.7	930.9	934.6	938.3
32.5°	855.3	866.1	876.8	887.6	898.3	909.1	919.8	930.6	941.3	945.8	950.3
35°	855.0	867.5	879.9	892.4	904.9	917.4	929.8	942.3	954.8	960.2	965.7
37.5°	855.1	869.8	884.4	899.1	913.8	928.5	943.1	957.8	972.5	979.1	985.7
40°	858.6	875.7	892.8	909.9	927.0	944.1	961.2	978.3	995.4	1003.3	1011.1
42.5°	864.5	884.4	904.2	924.1	944.0	963.9	983.7	1003.6	1023.5	1032.7	1042.0
45°	873.9	897.0	920.2	943.3	966.4	989.5	1012.7	1035.8	1058.9	1069.6	1080.4
47.5°	886.8	913.4	939.9	966.5	993.1	1019.7	1046.2	1072.8	1099.4	1112.2	1125.1
50°	903.8	934.9	966.0	997.1	1028.1	1059.2	1090.3	1121.4	1152.5	1166.8	1181.1
52.5°	924.0	959.7	995.4	1031.1	1066.9	1102.6	1138.3	1174.0	1209.7	1225.5	1241.4
55°	947.9	987.8	1027.6	1067.5	1107.4	1147.3	1187.1	1227.0	1266.9	1284.8	1302.7
57.5°	977.3	1021.5	1065.8	1110.1	1154.3	1198.6	1242.9	1287.1	1331.4	1350.6	1369.8
60°	1007.9	1056.8	1105.7	1154.6	1203.4	1252.3	1301.2	1350.1	1399.0	1418.4	1437.8
62.5°	1038.4	1090.7	1143.1	1195.4	1247.8	1300.1	1352.5	1404.8	1457.2	1476.5	1495.8
65°	1064.2	1118.4	1172.6	1226.8	1281.0	1335.2	1389.4	1443.6	1497.8	1517.2	1536.6
67.5°	1084.1	1139.4	1194.8	1250.1	1305.5	1360.8	1416.2	1471.5	1526.9	1545.3	1563.7
70°	1089.3	1144.6	1200.0	1255.3	1310.7	1366.0	1421.4	1476.7	1532.1	1549.2	1566.3
72.5°	1077.4	1131.2	1185.1	1238.9	1292.8	1346.6	1400.5	1454.3	1508.2	1523.9	1539.6
75°	1047.5	1098.6	1149.7	1200.8	1251.8	1302.9	1354.0	1405.1	1456.2	1470.4	1484.6
77.5°	994.3	1042.2	1090.0	1137.9	1185.7	1233.6	1281.4	1329.3	1377.1	1391.0	1404.9
80°	928.6	972.1	1015.5	1059.0	1102.4	1145.9	1189.3	1232.8	1276.2	1289.0	1301.9
82.5°	860.6	898.5	936.4	974.3	1012.3	1050.2	1088.1	1126.0	1163.9	1175.7	1187.5
85°	778.7	812.7	846.6	880.6	914.6	948.6	982.5	1016.5	1050.5	1060.9	1071.3
87.5°	700.6	730.3	760.0	789.7	819.4	849.1	878.8	908.5	938.2	947.8	957.4
90°	634.9	660.3	685.8	711.2	736.6	762.0	787.5	812.9	838.3	847.3	856.3
92.5°	576.9	600.3	623.8	647.2	670.7	694.1	717.6	741.0	764.5	772.5	780.5
95°	535.0	556.1	577.3	598.4	619.6	640.7	661.9	683.0	704.2	711.7	719.2
97.5°	496.4	516.4	536.4	556.4	576.3	596.3	616.3	636.3	656.3	663.4	670.4
100°	463.5	482.9	502.4	521.8	541.2	560.6	580.1	599.5	618.9	625.6	632.3
102.5°	435.9	454.8	473.6	492.4	511.3	530.1	548.9	567.8	586.6	593.3	600.0
105°	411.9	430.6	449.4	468.1	486.8	505.5	524.3	543.0	561.7	568.3	574.9
107.5°	389.1	408.0	426.8	445.6	464.5	483.3	502.1	521.0	539.8	546.3	552.8
110°	368.2	386.9	405.7	424.4	443.1	461.8	480.6	499.3	518.0	524.6	531.2



TEST NUMBER: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	347.4	366.1	384.9	403.6	422.3	441.0	459.8	478.5	497.2	503.9	510.6
115°	326.6	345.3	364.1	382.8	401.5	420.2	439.0	457.7	476.4	483.2	490.0
117.5°	304.6	323.2	341.8	360.4	379.1	397.7	416.3	434.9	453.5	460.5	467.6
120°	282.3	300.5	318.6	336.8	354.9	373.1	391.2	409.4	427.5	434.8	442.1
122.5°	257.9	275.4	293.0	310.6	328.1	345.7	363.3	380.8	398.4	405.8	413.2
125°	233.9	250.4	267.0	283.5	300.0	316.5	333.1	349.6	366.1	373.5	380.9
127.5°	209.1	224.7	240.3	255.9	271.5	287.1	302.7	318.3	333.9	340.9	348.0
130°	180.5	195.7	210.8	225.9	241.1	256.2	271.3	286.5	301.6	307.7	313.9
132.5°	153.8	168.3	182.7	197.2	211.6	226.1	240.5	255.0	269.4	275.1	280.7
135°	131.7	144.7	157.8	170.8	183.9	196.9	210.0	223.0	236.1	241.5	247.0
137.5°	110.9	121.9	132.8	143.8	154.8	165.8	176.7	187.7	198.7	204.4	210.0
140°	92.1	101.0	109.9	118.8	127.7	136.6	145.5	154.4	163.3	168.5	173.7
142.5°	75.1	82.6	90.1	97.6	105.2	112.7	120.2	127.7	135.2	139.7	144.2
145°	60.5	66.8	73.2	79.5	85.9	92.2	98.6	104.9	111.3	115.6	119.9
147.5°	46.9	52.2	57.6	62.9	68.2	73.5	78.9	84.2	89.5	93.5	97.6
150°	35.5	39.8	44.0	48.3	52.6	56.9	61.1	65.4	69.7	73.6	77.6
152.5°	25.2	28.5	31.9	35.2	38.6	41.9	45.3	48.6	52.0	55.7	59.4
155°	16.2	18.8	21.5	24.1	26.8	29.4	32.1	34.7	37.4	40.6	43.9
157.5°	7.4	9.6	11.8	14.0	16.2	18.4	20.6	22.8	25.0	27.9	30.8
160°	2.5	4.0	5.5	7.0	8.6	10.1	11.6	13.1	14.6	16.9	19.2
162.5°	0.5	0.9	1.4	1.9	2.3	2.8	3.3	3.7	4.2	6.0	7.9
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	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: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1
2.5°	1004.8	1003.7	1002.7	1001.6	1000.6	999.5	998.5	999.7	1000.8	1002.0	1003.1
5°	982.3	981.7	981.1	980.5	980.0	979.4	978.8	979.5	980.2	980.9	981.6
7.5°	960.4	959.8	959.2	958.6	958.1	957.5	956.9	957.4	957.8	958.3	958.8
10°	939.2	938.5	937.9	937.2	936.5	935.8	935.1	935.4	935.8	936.1	936.5
12.5°	920.2	919.7	919.3	918.8	918.3	917.9	917.4	917.5	917.6	917.7	917.8
15°	905.6	905.8	906.1	906.3	906.5	906.8	907.0	906.8	906.5	906.3	906.1
17.5°	900.1	901.2	902.4	903.5	904.7	905.8	907.0	906.0	904.9	903.9	902.8
20°	905.3	907.1	909.0	910.8	912.7	914.5	916.4	914.4	912.5	910.5	908.5
22.5°	913.9	916.2	918.6	920.9	923.2	925.5	927.8	925.1	922.5	919.8	917.2
25°	923.3	925.9	928.6	931.2	933.9	936.5	939.2	936.3	933.4	930.5	927.6
27.5°	932.0	935.1	938.2	941.3	944.5	947.6	950.7	947.3	944.0	940.6	937.3
30°	942.0	945.7	949.4	953.1	956.8	960.5	964.2	960.3	956.3	952.4	948.5
32.5°	954.8	959.3	963.9	968.4	972.9	977.4	981.9	977.4	972.9	968.4	963.9
35°	971.1	976.5	982.0	987.4	992.8	998.3	1003.7	998.4	993.1	987.8	982.5
37.5°	992.3	998.9	1005.4	1012.0	1018.6	1025.2	1031.8	1025.2	1018.6	1012.0	1005.4
40°	1019.0	1026.8	1034.7	1042.5	1050.4	1058.2	1066.1	1058.6	1051.1	1043.6	1036.1
42.5°	1051.2	1060.5	1069.7	1079.0	1088.2	1097.5	1106.7	1098.3	1089.8	1081.4	1073.0
45°	1091.1	1101.9	1112.6	1123.4	1134.1	1144.9	1155.6	1145.5	1135.5	1125.4	1115.4
47.5°	1137.9	1150.7	1163.6	1176.4	1189.2	1202.1	1214.9	1203.0	1191.1	1179.2	1167.3
50°	1195.5	1209.8	1224.1	1238.4	1252.8	1267.1	1281.4	1267.9	1254.4	1240.8	1227.3
52.5°	1257.2	1273.0	1288.9	1304.7	1320.5	1336.4	1352.2	1337.4	1322.6	1307.8	1293.0
55°	1320.6	1338.5	1356.5	1374.4	1392.3	1410.2	1428.1	1411.9	1395.7	1379.6	1363.4
57.5°	1388.9	1408.1	1427.3	1446.5	1465.6	1484.8	1504.0	1486.9	1469.8	1452.7	1435.6
60°	1457.2	1476.6	1496.1	1515.5	1534.9	1554.3	1573.7	1556.3	1538.8	1521.4	1503.9
62.5°	1515.1	1534.4	1553.7	1573.0	1592.3	1611.6	1630.9	1613.7	1596.5	1579.2	1562.0
65°	1556.0	1575.4	1594.9	1614.3	1633.7	1653.1	1672.5	1655.7	1639.0	1622.2	1605.5
67.5°	1582.0	1600.4	1618.8	1637.2	1655.5	1673.9	1692.3	1676.5	1660.6	1644.8	1629.0
70°	1583.4	1600.5	1617.7	1634.8	1651.9	1669.0	1686.1	1671.4	1656.7	1642.1	1627.4
72.5°	1555.4	1571.1	1586.8	1602.5	1618.3	1634.0	1649.7	1636.1	1622.4	1608.8	1595.1
75°	1498.8	1513.0	1527.3	1541.5	1555.7	1569.9	1584.1	1571.6	1559.1	1546.7	1534.2
77.5°	1418.7	1432.6	1446.5	1460.4	1474.2	1488.1	1502.0	1489.3	1476.6	1463.8	1451.1
80°	1314.7	1327.5	1340.4	1353.2	1366.0	1378.9	1391.7	1379.9	1368.1	1356.3	1344.5
82.5°	1199.3	1211.1	1222.8	1234.6	1246.4	1258.2	1270.0	1259.0	1248.0	1237.1	1226.1
85°	1081.7	1092.1	1102.5	1112.9	1123.3	1133.7	1144.1	1134.1	1124.0	1114.0	1103.9
87.5°	967.0	976.6	986.1	995.7	1005.3	1014.9	1024.5	1015.1	1005.8	996.4	987.1
90°	865.4	874.4	883.4	892.4	901.5	910.5	919.5	910.9	902.4	893.8	885.3
92.5°	788.4	796.4	804.4	812.4	820.3	828.3	836.3	828.7	821.0	813.4	805.8
95°	726.7	734.2	741.8	749.3	756.8	764.3	771.8	764.9	757.9	751.0	744.1
97.5°	677.5	684.5	691.6	698.6	705.7	712.7	719.8	713.2	706.6	700.0	693.4
100°	639.0	645.7	652.4	659.1	665.8	672.5	679.2	672.8	666.5	660.1	653.8
102.5°	606.7	613.4	620.2	626.9	633.6	640.3	647.0	640.9	634.7	628.6	622.5
105°	581.5	588.1	594.6	601.2	607.8	614.4	621.0	614.9	608.7	602.6	596.5
107.5°	559.2	565.7	572.2	578.7	585.1	591.6	598.1	592.1	586.1	580.1	574.1
110°	537.8	544.4	550.9	557.5	564.1	570.7	577.3	571.3	565.3	559.3	553.3



TEST NUMBER: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	517.3	524.0	530.7	537.4	544.1	550.8	557.5	551.4	545.3	539.1	533.0
115°	496.8	503.6	510.5	517.3	524.1	530.9	537.7	531.5	525.2	519.0	512.8
117.5°	474.6	481.7	488.7	495.8	502.8	509.9	516.9	510.5	504.2	497.8	491.5
120°	449.3	456.6	463.9	471.2	478.4	485.7	493.0	486.5	480.1	473.6	467.1
122.5°	420.6	428.0	435.3	442.7	450.1	457.5	464.9	458.3	451.7	445.2	438.6
125°	388.3	395.7	403.1	410.5	417.9	425.3	432.7	426.5	420.2	414.0	407.7
127.5°	355.0	362.1	369.1	376.2	383.2	390.3	397.3	391.3	385.3	379.3	373.3
130°	320.0	326.1	332.3	338.4	344.5	350.7	356.8	351.4	345.9	340.5	335.1
132.5°	286.4	292.1	297.7	303.4	309.1	314.7	320.4	315.8	311.2	306.5	301.9
135°	252.4	257.8	263.3	268.7	274.1	279.6	285.0	280.8	276.7	272.5	268.4
137.5°	215.7	221.3	227.0	232.6	238.3	243.9	249.6	245.4	241.3	237.1	233.0
140°	178.9	184.1	189.3	194.5	199.7	204.9	210.1	206.6	203.2	199.7	196.2
142.5°	148.7	153.2	157.8	162.3	166.8	171.3	175.8	173.4	170.9	168.5	166.1
145°	124.1	128.4	132.7	137.0	141.2	145.5	149.8	147.8	145.9	143.9	141.9
147.5°	101.6	105.7	109.7	113.8	117.8	121.9	125.9	124.3	122.7	121.0	119.4
150°	81.5	85.4	89.4	93.3	97.2	101.2	105.1	103.7	102.3	100.9	99.5
152.5°	63.1	66.8	70.5	74.2	77.9	81.6	85.3	84.1	83.0	81.8	80.7
155°	47.1	50.4	53.6	56.9	60.1	63.4	66.6	65.8	65.0	64.2	63.4
157.5°	33.7	36.6	39.4	42.3	45.2	48.1	51.0	50.3	49.6	48.9	48.2
160°	21.5	23.8	26.2	28.5	30.8	33.1	35.4	34.9	34.5	34.0	33.5
162.5°	9.7	11.6	13.4	15.3	17.1	19.0	20.8	20.6	20.3	20.1	19.9
165°	3.5	4.6	5.8	6.9	8.1	9.2	10.4	10.4	10.4	10.4	10.4
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: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1
2.5°	1004.3	1005.4	1006.6	1007.7	1008.9	1010.5	1012.1	1013.8	1015.4	1017.0	1018.6
5°	982.2	982.9	983.6	984.3	985.0	987.0	988.9	990.9	992.9	994.8	996.8
7.5°	959.2	959.7	960.2	960.6	961.1	963.5	965.9	968.4	970.8	973.2	975.6
10°	936.8	937.2	937.5	937.9	938.2	940.6	943.0	945.5	947.9	950.3	952.7
12.5°	918.0	918.1	918.2	918.3	918.4	920.9	923.5	926.0	928.6	931.1	933.7
15°	905.8	905.6	905.4	905.1	904.9	906.5	908.1	909.8	911.4	913.0	914.6
17.5°	901.8	900.7	899.7	898.6	897.6	897.7	897.8	898.0	898.1	898.2	898.3
20°	906.6	904.6	902.6	900.7	898.7	896.5	894.3	892.1	889.9	887.7	885.5
22.5°	914.5	911.9	909.2	906.6	903.9	899.6	895.3	891.1	886.8	882.5	878.2
25°	924.8	921.9	919.0	916.1	913.2	907.1	901.0	894.8	888.7	882.6	876.5
27.5°	933.9	930.6	927.2	923.9	920.5	913.3	906.2	899.0	891.8	884.7	877.5
30°	944.5	940.6	936.7	932.7	928.8	920.4	911.9	903.5	895.1	886.6	878.2
32.5°	959.3	954.8	950.3	945.8	941.3	931.1	921.0	910.8	900.6	890.5	880.3
35°	977.1	971.8	966.5	961.2	955.9	943.9	931.9	919.8	907.8	895.8	883.8
37.5°	998.9	992.3	985.7	979.1	972.5	958.7	945.0	931.2	917.5	903.7	890.0
40°	1028.5	1021.0	1013.5	1006.0	998.5	982.2	965.9	949.6	933.3	917.1	900.8
42.5°	1064.5	1056.1	1047.7	1039.2	1030.8	1011.4	992.0	972.5	953.1	933.7	914.3
45°	1105.3	1095.3	1085.2	1075.2	1065.1	1042.7	1020.3	997.8	975.4	953.0	930.6
47.5°	1155.3	1143.4	1131.5	1119.6	1107.7	1081.8	1055.9	1030.1	1004.2	978.3	952.4
50°	1213.8	1200.3	1186.7	1173.2	1159.7	1129.7	1099.6	1069.6	1039.5	1009.5	979.4
52.5°	1278.2	1263.4	1248.6	1233.8	1219.0	1184.4	1149.9	1115.3	1080.8	1046.2	1011.7
55°	1347.2	1331.0	1314.9	1298.7	1282.5	1243.4	1204.4	1165.3	1126.2	1087.2	1048.1
57.5°	1418.5	1401.4	1384.3	1367.2	1350.1	1306.5	1263.0	1219.4	1175.8	1132.3	1088.7
60°	1486.5	1469.0	1451.6	1434.1	1416.7	1369.1	1321.5	1273.8	1226.2	1178.6	1131.0
62.5°	1544.8	1527.6	1510.3	1493.1	1475.9	1424.9	1374.0	1323.0	1272.0	1221.1	1170.1
65°	1588.7	1572.0	1555.2	1538.5	1521.7	1468.5	1415.4	1362.2	1309.1	1255.9	1202.8
67.5°	1613.1	1597.3	1581.5	1565.6	1549.8	1495.5	1441.2	1386.8	1332.5	1278.2	1223.9
70°	1612.7	1598.0	1583.4	1568.7	1554.0	1499.8	1445.6	1391.4	1337.2	1282.9	1228.7
72.5°	1581.5	1567.8	1554.2	1540.5	1526.9	1474.2	1421.5	1368.8	1316.1	1263.4	1210.7
75°	1521.7	1509.2	1496.8	1484.3	1471.8	1422.0	1372.2	1322.4	1272.6	1222.7	1172.9
77.5°	1438.4	1425.7	1412.9	1400.2	1387.5	1341.4	1295.3	1249.2	1203.1	1156.9	1110.8
80°	1332.8	1321.0	1309.2	1297.4	1285.6	1243.5	1201.5	1159.4	1117.3	1075.3	1033.2
82.5°	1215.1	1204.1	1193.2	1182.2	1171.2	1133.8	1096.3	1058.9	1021.4	984.0	946.5
85°	1093.9	1083.8	1073.8	1063.7	1053.7	1020.8	987.8	954.9	921.9	889.0	856.0
87.5°	977.7	968.4	959.0	949.7	940.3	911.6	883.0	854.3	825.6	797.0	768.3
90°	876.7	868.2	859.6	851.1	842.5	817.1	791.7	766.2	740.8	715.4	690.0
92.5°	798.1	790.5	782.9	775.2	767.6	745.0	722.3	699.7	677.0	654.4	631.7
95°	737.1	730.2	723.3	716.3	709.4	688.5	667.6	646.6	625.7	604.8	583.9
97.5°	686.9	680.3	673.7	667.1	660.5	640.9	621.2	601.6	581.9	562.3	542.6
100°	647.4	641.1	634.7	628.4	622.0	603.2	584.3	565.5	546.7	527.8	509.0
102.5°	616.3	610.2	604.1	597.9	591.8	573.3	554.8	536.3	517.8	499.4	480.9
105°	590.3	584.2	578.1	571.9	565.8	547.7	529.5	511.4	493.2	475.1	456.9
107.5°	568.0	562.0	556.0	550.0	544.0	526.0	507.9	489.9	471.9	453.8	435.8
110°	547.2	541.2	535.2	529.2	523.2	505.2	487.1	469.1	451.1	433.0	415.0



TEST NUMBER: P201347

CATALOG NUMBER: 4LBLEDD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	526.9	520.8	514.6	508.5	502.4	484.5	466.6	448.7	430.8	412.8	394.9
115°	506.5	500.3	494.1	487.8	481.6	463.7	445.8	427.9	410.0	392.0	374.1
117.5°	485.1	478.8	472.4	466.1	459.7	441.8	423.9	406.0	388.1	370.1	352.2
120°	460.7	454.2	447.7	441.3	434.8	417.2	399.7	382.1	364.5	347.0	329.4
122.5°	432.0	425.4	418.9	412.3	405.7	388.8	371.9	355.1	338.2	321.3	304.4
125°	401.5	395.2	389.0	382.7	376.5	360.1	343.7	327.3	310.9	294.4	278.0
127.5°	367.2	361.2	355.2	349.2	343.2	327.9	312.7	297.4	282.2	266.9	251.7
130°	329.6	324.2	318.8	313.3	307.9	294.0	280.2	266.3	252.4	238.6	224.7
132.5°	297.3	292.7	288.0	283.4	278.8	265.5	252.2	238.9	225.6	212.3	199.0
135°	264.2	260.1	255.9	251.8	247.6	235.7	223.8	211.9	200.0	188.0	176.1
137.5°	228.8	224.7	220.5	216.4	212.2	202.5	192.8	183.1	173.4	163.6	153.9
140°	192.8	189.3	185.8	182.4	178.9	171.0	163.2	155.3	147.5	139.6	131.8
142.5°	163.6	161.2	158.8	156.3	153.9	147.2	140.5	133.8	127.1	120.4	113.7
145°	140.0	138.0	136.0	134.1	132.1	126.3	120.5	114.8	109.0	103.2	97.4
147.5°	117.8	116.2	114.5	112.9	111.3	106.4	101.6	96.7	91.9	87.0	82.2
150°	98.2	96.8	95.4	94.0	92.6	88.4	84.3	80.1	75.9	71.8	67.6
152.5°	79.5	78.4	77.2	76.1	74.9	71.4	68.0	64.5	61.0	57.6	54.1
155°	62.5	61.7	60.9	60.1	59.3	56.4	53.5	50.6	47.7	44.9	42.0
157.5°	47.5	46.8	46.1	45.4	44.7	42.3	39.9	37.4	35.0	32.6	30.2
160°	33.1	32.6	32.1	31.7	31.2	29.4	27.5	25.7	23.8	22.0	20.1
162.5°	19.6	19.4	19.2	18.9	18.7	17.8	16.9	15.9	15.0	14.1	13.2
165°	10.4	10.4	10.4	10.4	10.4	10.1	9.7	9.4	9.0	8.7	8.3
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: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1
2.5°	1020.3	1021.9	1023.5	1024.0	1024.4	1024.9	1025.4	1025.8	1026.3	1026.8	1027.2
5°	998.8	1000.7	1002.7	1003.9	1005.0	1006.2	1007.3	1008.5	1009.6	1010.8	1011.9
7.5°	978.1	980.5	982.9	984.4	985.9	987.4	988.9	990.4	991.9	993.4	994.9
10°	955.2	957.6	960.0	961.9	963.7	965.6	967.4	969.3	971.1	973.0	974.8
12.5°	936.2	938.8	941.3	942.7	944.1	945.5	946.9	948.2	949.6	951.0	952.4
15°	916.3	917.9	919.5	920.8	922.0	923.3	924.6	925.8	927.1	928.4	929.6
17.5°	898.5	898.6	898.7	899.4	900.1	900.8	901.5	902.1	902.8	903.5	904.2
20°	883.3	881.1	878.9	878.8	878.7	878.6	878.5	878.3	878.2	878.1	878.0
22.5°	874.0	869.7	865.4	863.7	861.9	860.2	858.5	856.7	855.0	853.3	851.5
25°	870.3	864.2	858.1	853.9	849.8	845.6	841.5	837.3	833.2	829.0	824.9
27.5°	870.3	863.2	856.0	848.6	841.2	833.8	826.4	819.1	811.7	804.3	796.9
30°	869.8	861.3	852.9	842.4	831.9	821.4	810.9	800.3	789.8	779.3	768.8
32.5°	870.1	860.0	849.8	836.4	823.0	809.6	796.2	782.7	769.3	755.9	742.5
35°	871.7	859.7	847.7	831.3	814.9	798.5	782.1	765.6	749.2	732.8	716.4
37.5°	876.2	862.5	848.7	829.4	810.1	790.8	771.5	752.2	732.9	713.6	694.3
40°	884.5	868.2	851.9	829.9	808.0	786.0	764.0	742.1	720.1	698.1	676.2
42.5°	894.8	875.4	856.0	831.6	807.2	782.9	758.5	734.1	709.7	685.4	661.0
45°	908.1	885.7	863.3	836.1	809.0	781.8	754.7	727.5	700.4	673.2	646.1
47.5°	926.6	900.7	874.8	844.5	814.2	783.9	753.6	723.4	693.1	662.8	632.5
50°	949.4	919.3	889.3	855.4	821.6	787.7	753.9	720.0	686.2	652.3	618.5
52.5°	977.1	942.6	908.0	870.3	832.7	795.0	757.3	719.7	682.0	644.3	606.7
55°	1009.0	970.0	930.9	889.0	847.0	805.1	763.1	721.2	679.2	637.3	595.3
57.5°	1045.1	1001.6	958.0	911.5	865.1	818.6	772.1	725.7	679.2	632.7	586.3
60°	1083.3	1035.7	988.1	936.9	885.7	834.5	783.3	732.1	680.9	629.7	578.5
62.5°	1119.1	1068.2	1017.2	961.4	905.6	849.8	794.0	738.1	682.3	626.5	570.7
65°	1149.6	1096.5	1043.3	983.0	922.6	862.3	802.0	741.6	681.3	621.0	560.6
67.5°	1169.5	1115.2	1060.9	996.8	932.6	868.5	804.4	740.2	676.1	612.0	547.8
70°	1174.5	1120.3	1066.1	999.4	932.7	866.1	799.4	732.7	666.0	599.4	532.7
72.5°	1158.0	1105.3	1052.6	985.3	918.1	850.8	783.6	716.3	649.1	581.8	514.6
75°	1123.1	1073.3	1023.5	956.8	890.1	823.4	756.7	690.1	623.4	556.7	490.0
77.5°	1064.7	1018.6	972.5	908.4	844.2	780.1	716.0	651.8	587.7	523.6	459.4
80°	991.1	949.1	907.0	847.0	787.0	727.1	667.1	607.1	547.1	487.2	427.2
82.5°	909.1	871.6	834.2	779.4	724.6	669.9	615.1	560.3	505.5	450.8	396.0
85°	823.1	790.1	757.2	707.3	657.4	607.4	557.5	507.6	457.7	407.7	357.8
87.5°	739.6	711.0	682.3	637.9	593.5	549.2	504.8	460.4	416.0	371.7	327.3
90°	664.5	639.1	613.7	573.9	534.2	494.4	454.7	414.9	375.2	335.4	295.7
92.5°	609.1	586.4	563.8	527.4	491.0	454.6	418.2	381.7	345.3	308.9	272.5
95°	562.9	542.0	521.1	487.5	453.8	420.2	386.6	352.9	319.3	285.7	252.0
97.5°	523.0	503.3	483.7	452.5	421.3	390.1	358.9	327.6	296.4	265.2	234.0
100°	490.2	471.3	452.5	423.0	393.5	364.1	334.6	305.1	275.6	246.2	216.7
102.5°	462.4	443.9	425.4	397.3	369.2	341.2	313.1	285.0	256.9	228.9	200.8
105°	438.8	420.6	402.5	375.3	348.2	321.0	293.9	266.7	239.6	212.4	185.3
107.5°	417.8	399.7	381.7	355.4	329.0	302.7	276.3	250.0	223.6	197.3	170.9
110°	397.0	378.9	360.9	335.6	310.3	285.0	259.7	234.3	209.0	183.7	158.4



TEST NUMBER: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	377.0	359.1	341.2	316.7	292.2	267.7	243.2	218.7	194.2	169.7	145.2
115°	356.2	338.3	320.4	296.9	273.5	250.0	226.5	203.1	179.6	156.1	132.7
117.5°	334.3	316.4	298.5	276.2	253.9	231.6	209.3	187.0	164.7	142.4	120.1
120°	311.8	294.3	276.7	255.9	235.1	214.3	193.5	172.7	151.9	131.1	110.3
122.5°	287.6	270.7	253.8	234.6	215.4	196.2	177.0	157.9	138.7	119.5	100.3
125°	261.6	245.2	228.8	211.5	194.1	176.8	159.5	142.1	124.8	107.5	90.1
127.5°	236.4	221.2	205.9	190.2	174.5	158.8	143.1	127.3	111.6	95.9	80.2
130°	210.8	197.0	183.1	169.1	155.1	141.1	127.1	113.2	99.2	85.2	71.2
132.5°	185.7	172.4	159.1	147.0	134.8	122.7	110.6	98.4	86.3	74.2	62.0
135°	164.2	152.3	140.4	129.7	118.9	108.2	97.4	86.7	75.9	65.2	54.4
137.5°	144.2	134.5	124.8	115.0	105.2	95.3	85.5	75.7	65.9	56.0	46.2
140°	123.9	116.1	108.2	99.4	90.6	81.8	73.0	64.3	55.5	46.7	37.9
142.5°	107.0	100.3	93.6	85.7	77.9	70.0	62.2	54.3	46.5	38.6	30.8
145°	91.7	85.9	80.1	73.2	66.2	59.3	52.4	45.4	38.5	31.6	24.6
147.5°	77.3	72.5	67.6	61.6	55.6	49.6	43.6	37.5	31.5	25.5	19.5
150°	63.4	59.3	55.1	50.2	45.4	40.5	35.7	30.8	26.0	21.1	16.3
152.5°	50.6	47.2	43.7	39.9	36.1	32.3	28.5	24.6	20.8	17.0	13.2
155°	39.1	36.2	33.3	30.4	27.5	24.6	21.7	18.9	16.0	13.1	10.2
157.5°	27.7	25.3	22.9	21.0	19.2	17.3	15.5	13.6	11.8	9.9	8.1
160°	18.3	16.4	14.6	13.4	12.3	11.1	10.0	8.8	7.7	6.5	5.4
162.5°	12.2	11.3	10.4	9.6	8.8	8.0	7.2	6.3	5.5	4.7	3.9
165°	8.0	7.6	7.3	6.7	6.1	5.6	5.0	4.4	3.8	3.3	2.7
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: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1
2.5°	1027.7	1030.8	1033.9	1037.0	1040.1	1043.3	1046.4	1049.5	1052.6	1055.7	1055.7
5°	1013.1	1017.3	1021.4	1025.6	1029.7	1033.9	1038.0	1042.2	1046.3	1050.5	1051.8
7.5°	996.4	1001.4	1006.4	1011.3	1016.3	1021.3	1026.3	1031.2	1036.2	1041.2	1044.0
10°	976.7	982.5	988.3	994.0	999.8	1005.6	1011.4	1017.1	1022.9	1028.7	1032.7
12.5°	953.8	960.3	966.7	973.2	979.7	986.1	992.6	999.1	1005.5	1012.0	1017.4
15°	930.9	937.8	944.8	951.7	958.6	965.6	972.5	979.4	986.4	993.3	1000.0
17.5°	904.9	912.3	919.7	927.1	934.5	941.9	949.3	956.7	964.1	971.5	979.6
20°	877.9	885.3	892.7	900.1	907.5	914.8	922.2	929.6	937.0	944.4	954.1
22.5°	849.8	857.1	864.4	871.6	878.9	886.2	893.5	900.7	908.0	915.3	926.5
25°	820.7	828.1	835.5	842.9	850.3	857.6	865.0	872.4	879.8	887.2	899.7
27.5°	789.5	796.3	803.1	809.9	816.7	823.6	830.4	837.2	844.0	850.8	865.2
30°	758.3	764.4	770.5	776.7	782.8	788.9	795.0	801.2	807.3	813.4	829.7
32.5°	729.1	734.2	739.3	744.4	749.5	754.5	759.6	764.7	769.8	774.9	792.9
35°	700.0	703.9	707.9	711.8	715.7	719.7	723.6	727.5	731.5	735.4	755.3
37.5°	675.0	677.2	679.4	681.6	683.8	686.0	688.2	690.4	692.6	694.8	717.0
40°	654.2	654.0	653.8	653.5	653.3	653.1	652.9	652.6	652.4	652.2	677.2
42.5°	636.6	633.7	630.8	627.9	625.0	622.2	619.3	616.4	613.5	610.6	638.2
45°	618.9	613.4	607.8	602.3	596.7	591.2	585.6	580.1	574.5	569.0	599.3
47.5°	602.2	593.8	585.3	576.9	568.5	560.0	551.6	543.2	534.7	526.3	559.4
50°	584.6	573.5	562.4	551.3	540.2	529.1	518.0	506.9	495.8	484.7	520.5
52.5°	569.0	555.0	541.0	527.0	513.0	499.1	485.1	471.1	457.1	443.1	481.9
55°	553.4	536.8	520.1	503.5	486.8	470.2	453.5	436.9	420.2	403.6	445.3
57.5°	539.8	520.4	501.0	481.6	462.2	442.7	423.3	403.9	384.5	365.1	409.7
60°	527.3	505.1	482.9	460.7	438.5	416.4	394.2	372.0	349.8	327.6	375.2
62.5°	514.9	490.0	465.2	440.3	415.5	390.6	365.8	340.9	316.1	291.2	341.7
65°	500.3	473.1	446.0	418.8	391.7	364.5	337.4	310.2	283.1	255.9	309.1
67.5°	483.7	454.3	425.0	395.6	366.3	336.9	307.6	278.2	248.9	219.5	275.3
70°	466.0	435.0	404.0	373.1	342.1	311.1	280.1	249.2	218.2	187.2	244.9
72.5°	447.3	414.9	382.6	350.2	317.8	285.5	253.1	220.7	188.4	156.0	214.8
75°	423.3	390.4	357.4	324.5	291.6	258.6	225.7	192.8	159.8	126.9	186.3
77.5°	395.3	362.5	329.7	296.8	264.0	231.2	198.4	165.5	132.7	99.9	159.0
80°	367.2	334.7	302.2	269.8	237.3	204.8	172.3	139.9	107.4	74.9	133.3
82.5°	341.2	309.0	276.7	244.5	212.2	180.0	147.7	115.5	83.2	51.0	107.9
85°	307.9	277.2	246.4	215.7	184.9	154.2	123.4	92.7	61.9	31.2	85.7
87.5°	282.9	252.9	222.8	192.8	162.7	132.7	102.6	72.6	42.5	12.5	64.4
90°	255.9	227.5	199.0	170.6	142.2	113.7	85.3	56.9	28.4	0.0	48.5
92.5°	236.1	209.9	183.6	157.4	131.2	104.9	78.7	52.5	26.2	0.0	45.0
95°	218.4	194.1	169.9	145.6	121.3	97.1	72.8	48.5	24.3	0.0	41.4
97.5°	202.8	180.3	157.7	135.2	112.7	90.1	67.6	45.1	22.5	0.0	37.9
100°	187.2	166.4	145.6	124.8	104.0	83.2	62.4	41.6	20.8	0.0	34.7
102.5°	172.7	153.6	134.5	115.5	96.4	77.3	58.2	39.2	20.1	1.0	32.6
105°	158.1	140.6	123.2	105.7	88.3	70.8	53.4	35.9	18.5	1.0	29.8
107.5°	144.6	128.5	112.5	96.4	80.3	64.3	48.2	32.1	16.1	0.0	26.0
110°	133.1	118.3	103.5	88.7	73.9	59.2	44.4	29.6	14.8	0.0	23.5



TEST NUMBER: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	120.7	107.4	94.1	80.8	67.5	54.2	40.9	27.6	14.3	1.0	22.3
115°	109.2	97.2	85.2	73.1	61.1	49.1	37.1	25.0	13.0	1.0	20.3
117.5°	97.8	87.0	76.3	65.5	54.8	44.0	33.3	22.5	11.8	1.0	18.5
120°	89.5	79.7	69.8	60.0	50.2	40.3	30.5	20.7	10.8	1.0	16.8
122.5°	81.1	72.2	63.3	54.4	45.5	36.6	27.7	18.8	9.9	1.0	15.1
125°	72.8	64.8	56.8	48.9	40.9	32.9	24.9	17.0	9.0	1.0	13.4
127.5°	64.5	57.4	50.4	43.3	36.3	29.2	22.2	15.1	8.1	1.0	11.4
130°	57.2	51.0	44.7	38.5	32.2	26.0	19.7	13.5	7.2	1.0	9.6
132.5°	49.9	44.5	39.0	33.6	28.2	22.7	17.3	11.9	6.4	1.0	7.8
135°	43.7	39.0	34.2	29.5	24.7	20.0	15.2	10.5	5.7	1.0	6.3
137.5°	36.4	32.5	28.5	24.6	20.7	16.7	12.8	8.9	4.9	1.0	4.8
140°	29.1	26.0	22.9	19.7	16.6	13.5	10.4	7.2	4.1	1.0	3.7
142.5°	22.9	20.5	18.0	15.6	13.2	10.7	8.3	5.9	3.4	1.0	2.7
145°	17.7	15.8	14.0	12.1	10.3	8.4	6.6	4.7	2.9	1.0	2.2
147.5°	13.5	12.1	10.7	9.3	7.9	6.6	5.2	3.8	2.4	1.0	1.9
150°	11.4	10.2	9.1	7.9	6.8	5.6	4.5	3.3	2.2	1.0	1.6
152.5°	9.4	8.6	7.8	7.0	6.2	5.3	4.5	3.7	2.9	2.1	2.4
155°	7.3	6.7	6.1	5.6	5.0	4.4	3.8	3.3	2.7	2.1	2.3
157.5°	6.2	5.7	5.3	4.8	4.4	3.9	3.5	3.0	2.6	2.1	2.2
160°	4.2	4.0	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	2.1
162.5°	3.1	2.9	2.6	2.4	2.2	1.9	1.7	1.5	1.2	1.0	1.0
165°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	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: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1
2.5°	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1056.7	1057.8	1058.8
5°	1053.1	1054.3	1055.6	1056.9	1058.2	1059.4	1060.7	1062.0	1064.2	1066.4	1068.6
7.5°	1046.7	1049.5	1052.3	1055.0	1057.8	1060.6	1063.3	1066.1	1069.5	1072.8	1076.2
10°	1036.8	1040.8	1044.9	1048.9	1053.0	1057.0	1061.1	1065.1	1069.7	1074.3	1079.0
12.5°	1022.9	1028.3	1033.7	1039.2	1044.6	1050.0	1055.5	1060.9	1066.9	1072.9	1078.9
15°	1006.7	1013.4	1020.1	1026.9	1033.6	1040.3	1047.0	1053.7	1061.3	1068.9	1076.6
17.5°	987.7	995.8	1003.9	1011.9	1020.0	1028.1	1036.2	1044.3	1053.7	1063.0	1072.4
20°	963.8	973.5	983.2	993.0	1002.7	1012.4	1022.1	1031.8	1043.1	1054.4	1065.8
22.5°	937.7	948.9	960.1	971.4	982.6	993.8	1005.0	1016.2	1030.3	1044.4	1058.5
25°	912.2	924.7	937.2	949.6	962.1	974.6	987.1	999.6	1016.9	1034.3	1051.6
27.5°	879.7	894.1	908.6	923.0	937.5	951.9	966.4	980.8	1001.6	1022.4	1043.2
30°	846.0	862.3	878.6	894.8	911.1	927.4	943.7	960.0	984.2	1008.3	1032.5
32.5°	811.0	829.0	847.0	865.1	883.1	901.1	919.2	937.2	965.2	993.1	1021.1
35°	775.2	795.0	814.9	834.8	854.7	874.5	894.4	914.3	946.0	977.6	1009.3
37.5°	739.2	761.4	783.6	805.7	827.9	850.1	872.3	894.5	929.6	964.8	999.9
40°	702.1	727.1	752.0	777.0	801.9	826.9	851.8	876.8	915.5	954.2	993.0
42.5°	665.8	693.4	721.0	748.7	776.3	803.9	831.5	859.1	901.9	944.6	987.4
45°	629.6	659.8	690.1	720.4	750.7	780.9	811.2	841.5	888.8	936.0	983.3
47.5°	592.4	625.5	658.5	691.6	724.6	757.7	790.7	823.8	875.9	928.0	980.2
50°	556.3	592.2	628.0	663.8	699.6	735.5	771.3	807.1	864.1	921.1	978.0
52.5°	520.8	559.6	598.4	637.3	676.1	714.9	753.8	792.6	855.1	917.6	980.2
55°	487.0	528.8	570.5	612.2	653.9	695.7	737.4	779.1	848.3	917.5	986.8
57.5°	454.3	498.9	543.5	588.2	632.8	677.4	722.0	766.6	842.4	918.2	994.0
60°	422.8	470.5	518.1	565.7	613.3	661.0	708.6	756.2	839.2	922.2	1005.1
62.5°	392.2	442.7	493.2	543.8	594.3	644.8	695.3	745.8	836.2	926.6	1016.9
65°	362.2	415.4	468.5	521.7	574.8	628.0	681.1	734.3	831.7	929.2	1026.6
67.5°	331.1	387.0	442.8	498.6	554.4	610.3	666.1	721.9	825.4	929.0	1032.5
70°	302.6	360.2	417.9	475.6	533.3	590.9	648.6	706.3	814.4	922.4	1030.5
72.5°	273.6	332.5	391.3	450.1	508.9	567.8	626.6	685.4	795.7	905.9	1016.2
75°	245.7	305.1	364.5	423.9	483.3	542.7	602.1	661.5	771.3	881.1	990.9
77.5°	218.0	277.1	336.1	395.2	454.2	513.3	572.3	631.4	737.8	844.3	950.7
80°	191.6	250.0	308.4	366.7	425.1	483.5	541.8	600.2	700.7	801.3	901.8
82.5°	164.7	221.6	278.4	335.3	392.1	449.0	505.8	562.7	656.5	750.4	844.2
85°	140.3	194.8	249.4	303.9	358.5	413.0	467.6	522.1	608.1	694.1	780.1
87.5°	116.3	168.2	220.1	271.9	323.8	375.7	427.6	479.5	557.5	635.5	713.5
90°	97.1	145.6	194.2	242.7	291.3	339.8	388.4	436.9	507.9	578.8	649.8
92.5°	89.9	134.9	179.8	224.8	269.7	314.7	359.6	404.6	469.1	533.6	598.1
95°	82.8	124.1	165.5	206.9	248.3	289.6	331.0	372.4	431.8	491.2	550.6
97.5°	75.8	113.7	151.6	189.6	227.5	265.4	303.3	341.2	396.3	451.4	506.6
100°	69.3	104.0	138.7	173.3	208.0	242.7	277.3	312.0	363.8	415.6	467.3
102.5°	64.1	95.7	127.2	158.8	190.3	221.9	253.4	285.0	334.1	383.2	432.4
105°	58.6	87.3	116.1	144.9	173.7	202.4	231.2	260.0	306.7	353.4	400.1
107.5°	52.0	78.0	104.0	130.0	156.0	182.0	208.0	234.0	278.8	323.7	368.5
110°	46.9	70.4	93.8	117.3	140.7	164.2	187.6	211.1	253.9	296.6	339.4



TEST NUMBER: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	43.5	64.8	86.1	107.3	128.6	149.9	171.1	192.4	233.1	273.8	314.5
115°	39.6	58.9	78.2	97.5	116.8	136.1	155.4	174.7	213.5	252.4	291.2
117.5°	35.9	53.4	70.8	88.3	105.7	123.2	140.6	158.1	195.0	231.8	268.7
120°	32.7	48.5	64.3	80.2	96.0	111.8	127.7	143.5	177.8	212.2	246.5
122.5°	29.2	43.3	57.4	71.5	85.6	99.7	113.8	127.9	159.6	191.2	222.9
125°	25.7	38.1	50.5	62.8	75.2	87.6	99.9	112.3	141.7	171.0	200.4
127.5°	21.8	32.2	42.6	53.1	63.5	73.9	84.3	94.7	122.1	149.5	176.9
130°	18.1	26.7	35.2	43.8	52.3	60.9	69.4	78.0	102.7	127.5	152.2
132.5°	14.6	21.5	28.3	35.1	41.9	48.8	55.6	62.4	84.4	106.3	128.3
135°	11.6	17.0	22.3	27.6	32.9	38.3	43.6	48.9	67.9	86.8	105.8
137.5°	8.6	12.5	16.3	20.1	23.9	27.8	31.6	35.4	51.9	68.4	85.0
140°	6.3	9.0	11.7	14.3	17.0	19.7	22.3	25.0	39.3	53.6	68.0
142.5°	4.5	6.2	7.9	9.7	11.4	13.1	14.9	16.6	28.7	40.9	53.0
145°	3.3	4.5	5.6	6.8	7.9	9.1	10.2	11.4	21.2	31.1	40.9
147.5°	2.9	3.8	4.7	5.7	6.6	7.5	8.5	9.4	17.0	24.6	32.3
150°	2.2	2.7	3.3	3.9	4.5	5.0	5.6	6.2	12.0	17.8	23.5
152.5°	2.8	3.1	3.5	3.8	4.2	4.5	4.9	5.2	9.1	13.1	17.0
155°	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	6.5	8.8	11.1
157.5°	2.3	2.4	2.5	2.7	2.8	2.9	3.0	3.1	4.4	5.7	6.9
160°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.7	3.3	3.8
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.5	1.7
165°	1.9	1.7	1.6	1.5	1.4	1.2	1.1	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: P201347

CATALOG NUMBER: 4LBLEDD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1
2.5°	1059.9	1060.9	1062.0	1063.0	1064.1	1065.1	1065.7	1066.3	1066.8	1067.4	1068.0
5°	1070.8	1072.9	1075.1	1077.3	1079.5	1081.7	1082.9	1084.0	1085.2	1086.3	1087.5
7.5°	1079.5	1082.9	1086.2	1089.6	1092.9	1096.3	1098.4	1100.5	1102.5	1104.6	1106.7
10°	1083.6	1088.2	1092.8	1097.5	1102.1	1106.7	1110.1	1113.4	1116.8	1120.1	1123.5
12.5°	1084.9	1091.0	1097.0	1103.0	1109.0	1115.0	1119.5	1124.0	1128.5	1133.0	1137.6
15°	1084.2	1091.8	1099.4	1107.1	1114.7	1122.3	1128.1	1133.9	1139.6	1145.4	1151.2
17.5°	1081.7	1091.1	1100.4	1109.8	1119.1	1128.5	1136.5	1144.5	1152.4	1160.4	1168.4
20°	1077.1	1088.4	1099.7	1111.1	1122.4	1133.7	1144.3	1155.0	1165.6	1176.2	1186.9
22.5°	1072.6	1086.7	1100.8	1114.9	1129.0	1143.1	1155.6	1168.1	1180.5	1193.0	1205.5
25°	1068.9	1086.3	1103.6	1120.9	1138.3	1155.6	1169.8	1184.0	1198.2	1212.4	1226.7
27.5°	1064.0	1084.9	1105.7	1126.5	1147.3	1168.1	1183.9	1199.8	1215.6	1231.4	1247.3
30°	1056.6	1080.8	1104.9	1129.1	1153.2	1177.4	1195.4	1213.5	1231.5	1249.5	1267.6
32.5°	1049.1	1077.0	1105.0	1133.0	1160.9	1188.9	1209.4	1229.8	1250.3	1270.7	1291.2
35°	1041.0	1072.6	1104.3	1136.0	1167.6	1199.3	1222.6	1246.0	1269.3	1292.7	1316.0
37.5°	1035.0	1070.2	1105.3	1140.4	1175.6	1210.7	1237.6	1264.6	1291.5	1318.4	1345.4
40°	1031.7	1070.4	1109.1	1147.9	1186.6	1225.3	1256.2	1287.0	1317.9	1348.7	1379.6
42.5°	1030.2	1072.9	1115.7	1158.5	1201.2	1244.0	1279.5	1315.0	1350.4	1385.9	1421.4
45°	1030.6	1077.8	1125.1	1172.4	1219.6	1266.9	1307.7	1348.5	1389.3	1430.1	1470.8
47.5°	1032.3	1084.4	1136.5	1188.7	1240.8	1292.9	1339.9	1387.0	1434.0	1481.0	1528.1
50°	1035.0	1092.0	1149.0	1205.9	1262.9	1319.9	1374.1	1428.3	1482.5	1536.7	1591.0
52.5°	1042.7	1105.2	1167.7	1230.3	1292.8	1355.3	1416.9	1478.5	1540.1	1601.7	1663.3
55°	1056.0	1125.2	1194.4	1263.7	1332.9	1402.1	1470.6	1539.2	1607.7	1676.2	1744.8
57.5°	1069.8	1145.7	1221.5	1297.3	1373.1	1448.9	1524.5	1600.1	1675.7	1751.3	1826.8
60°	1088.1	1171.1	1254.1	1337.0	1420.0	1503.0	1584.7	1666.4	1748.1	1829.8	1911.6
62.5°	1107.3	1197.7	1288.1	1378.4	1468.8	1559.2	1645.9	1732.6	1819.2	1905.9	1992.6
65°	1124.0	1221.5	1318.9	1416.3	1513.8	1611.2	1701.2	1791.2	1881.3	1971.3	2061.3
67.5°	1136.1	1239.6	1343.2	1446.7	1550.3	1653.8	1745.2	1836.6	1928.1	2019.5	2110.9
70°	1138.5	1246.6	1354.6	1462.7	1570.7	1678.8	1769.8	1860.7	1951.7	2042.6	2133.6
72.5°	1126.4	1236.7	1346.9	1457.2	1567.4	1677.7	1766.5	1855.2	1944.0	2032.8	2121.5
75°	1100.7	1210.5	1320.3	1430.1	1539.9	1649.7	1734.5	1819.3	1904.2	1989.0	2073.8
77.5°	1057.1	1163.6	1270.0	1376.4	1482.9	1589.3	1670.3	1751.3	1832.4	1913.4	1994.4
80°	1002.4	1102.9	1203.5	1304.0	1404.6	1505.1	1580.2	1655.3	1730.5	1805.6	1880.7
82.5°	938.1	1031.9	1125.8	1219.6	1313.5	1407.3	1475.6	1543.9	1612.2	1680.5	1748.8
85°	866.1	952.0	1038.0	1124.0	1210.0	1296.0	1358.1	1420.1	1482.2	1544.3	1606.3
87.5°	791.5	869.6	947.6	1025.6	1103.6	1181.6	1237.4	1293.2	1349.1	1404.9	1460.7
90°	720.7	791.7	862.6	933.6	1004.5	1075.5	1125.8	1176.1	1226.3	1276.6	1326.9
92.5°	662.6	727.0	791.5	856.0	920.5	985.0	1031.0	1077.0	1123.0	1169.0	1215.0
95°	610.0	669.4	728.8	788.2	847.6	907.0	950.5	993.9	1037.4	1080.8	1124.3
97.5°	561.7	616.8	671.9	727.1	782.2	837.3	878.0	918.7	959.3	1000.0	1040.7
100°	519.1	570.9	622.7	674.4	726.2	778.0	817.2	856.4	895.5	934.7	973.9
102.5°	481.5	530.6	579.7	628.9	678.0	727.1	765.1	803.1	841.2	879.2	917.2
105°	446.8	493.4	540.1	586.8	633.5	680.2	717.1	753.9	790.8	827.7	864.5
107.5°	413.4	458.2	503.1	547.9	592.8	637.6	674.0	710.4	746.8	783.2	819.6
110°	382.2	424.9	467.7	510.5	553.2	596.0	631.8	667.6	703.5	739.3	775.1



TEST NUMBER: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	355.2	395.8	436.5	477.2	517.9	558.6	593.4	628.2	662.9	697.7	732.5
115°	330.0	368.9	407.7	446.5	485.4	524.2	557.4	590.5	623.7	656.9	690.0
117.5°	305.6	342.4	379.3	416.2	453.0	489.9	521.7	553.5	585.2	617.0	648.8
120°	280.8	315.2	349.5	383.8	418.2	452.5	483.6	514.7	545.8	576.9	607.9
122.5°	254.6	286.2	317.9	349.6	381.2	412.9	443.3	473.7	504.1	534.5	564.9
125°	229.7	259.1	288.4	317.8	347.1	376.5	405.3	434.1	462.8	491.6	520.4
127.5°	204.3	231.6	259.0	286.4	313.8	341.2	367.5	393.9	420.2	446.6	472.9
130°	176.9	201.7	226.4	251.1	275.9	300.6	324.8	348.9	373.1	397.2	421.4
132.5°	150.2	172.2	194.1	216.1	238.0	260.0	282.8	305.5	328.3	351.1	373.8
135°	124.7	143.7	162.6	181.6	200.5	219.5	241.6	263.6	285.7	307.8	329.8
137.5°	101.5	118.0	134.5	151.1	167.6	184.1	204.4	224.8	245.1	265.5	285.8
140°	82.3	96.6	110.9	125.3	139.6	153.9	171.2	188.6	205.9	223.3	240.6
142.5°	65.2	77.3	89.5	101.6	113.8	125.9	140.7	155.5	170.3	185.1	199.8
145°	50.7	60.6	70.4	80.2	90.1	99.9	112.1	124.4	136.6	148.9	161.1
147.5°	39.9	47.5	55.1	62.8	70.4	78.0	88.1	98.1	108.2	118.2	128.3
150°	29.3	35.1	40.9	46.6	52.4	58.2	66.8	75.3	83.9	92.4	101.0
152.5°	20.9	24.9	28.8	32.7	36.7	40.6	47.4	54.2	61.0	67.8	74.7
155°	13.4	15.8	18.1	20.4	22.7	25.0	30.3	35.6	40.9	46.2	51.6
157.5°	8.2	9.5	10.8	12.0	13.3	14.6	18.4	22.2	26.0	29.8	33.7
160°	4.4	5.0	5.6	6.1	6.7	7.3	9.5	11.7	13.9	16.1	18.2
162.5°	1.9	2.2	2.4	2.6	2.9	3.1	4.1	5.2	6.2	7.3	8.3
165°	0.6	0.4	0.3	0.2	0.1	0.0	0.3	0.7	1.0	1.4	1.7
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: P201347

CATALOG NUMBER: 4LBLEDD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1
2.5°	1068.6	1069.1	1069.7	1070.3	1069.3	1068.2	1067.2	1066.1	1065.1	1064.0	1063.0
5°	1088.6	1089.8	1090.9	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1
7.5°	1108.8	1110.8	1112.9	1115.0	1115.2	1115.5	1115.7	1115.9	1116.2	1116.4	1116.6
10°	1126.8	1130.2	1133.5	1136.9	1137.2	1137.6	1137.9	1138.3	1138.6	1139.0	1139.3
12.5°	1142.1	1146.6	1151.1	1155.6	1156.8	1157.9	1159.1	1160.2	1161.4	1162.5	1163.7
15°	1157.0	1162.7	1168.5	1174.3	1176.4	1178.5	1180.5	1182.6	1184.7	1186.8	1188.8
17.5°	1176.4	1184.3	1192.3	1200.3	1203.2	1206.1	1209.0	1211.9	1214.7	1217.6	1220.5
20°	1197.5	1208.1	1218.8	1229.4	1232.9	1236.3	1239.8	1243.3	1246.7	1250.2	1253.7
22.5°	1218.0	1230.4	1242.9	1255.4	1259.8	1264.2	1268.6	1273.0	1277.4	1281.8	1286.2
25°	1240.9	1255.1	1269.3	1283.5	1288.1	1292.7	1297.4	1302.0	1306.6	1311.2	1315.9
27.5°	1263.1	1278.9	1294.8	1310.6	1316.1	1321.7	1327.2	1332.8	1338.3	1343.9	1349.4
30°	1285.6	1303.6	1321.7	1339.7	1346.3	1352.9	1359.5	1366.1	1372.6	1379.2	1385.8
32.5°	1311.6	1332.1	1352.5	1373.0	1381.0	1388.9	1396.9	1404.9	1412.8	1420.8	1428.8
35°	1339.4	1362.7	1386.1	1409.4	1419.0	1428.6	1438.2	1447.8	1457.3	1466.9	1476.5
37.5°	1372.3	1399.2	1426.2	1453.1	1464.5	1476.0	1487.4	1498.8	1510.3	1521.7	1533.1
40°	1410.4	1441.3	1472.1	1503.0	1516.6	1530.3	1543.9	1557.5	1571.2	1584.8	1598.4
42.5°	1456.9	1492.3	1527.8	1563.3	1579.1	1595.0	1610.8	1626.6	1642.5	1658.3	1674.1
45°	1511.6	1552.4	1593.2	1634.0	1652.4	1670.8	1689.1	1707.5	1725.9	1744.3	1762.6
47.5°	1575.1	1622.1	1669.2	1716.2	1737.1	1758.0	1779.0	1799.9	1820.8	1841.7	1862.7
50°	1645.2	1699.4	1753.6	1807.8	1831.5	1855.2	1878.9	1902.6	1926.2	1949.9	1973.6
52.5°	1724.9	1786.5	1848.1	1909.7	1936.0	1962.4	1988.7	2015.1	2041.4	2067.8	2094.1
55°	1813.3	1881.8	1950.4	2018.9	2047.2	2075.5	2103.8	2132.1	2160.5	2188.8	2217.1
57.5°	1902.4	1978.0	2053.6	2129.2	2159.2	2189.3	2219.3	2249.4	2279.4	2309.5	2339.5
60°	1993.3	2075.0	2156.7	2238.4	2269.4	2300.3	2331.3	2362.3	2393.2	2424.2	2455.2
62.5°	2079.3	2165.9	2252.6	2339.3	2370.2	2401.0	2431.9	2462.7	2493.6	2524.4	2555.3
65°	2151.3	2241.4	2331.4	2421.4	2451.6	2481.7	2511.9	2542.1	2572.2	2602.4	2632.6
67.5°	2202.3	2293.8	2385.2	2476.6	2506.1	2535.5	2565.0	2594.5	2623.9	2653.4	2682.9
70°	2224.5	2315.5	2406.4	2497.4	2525.7	2554.0	2582.3	2610.6	2639.0	2667.3	2695.6
72.5°	2210.3	2299.1	2387.8	2476.6	2503.6	2530.7	2557.7	2584.7	2611.8	2638.8	2665.8
75°	2158.6	2243.5	2328.3	2413.1	2438.9	2464.7	2490.4	2516.2	2542.0	2567.8	2593.5
77.5°	2075.4	2156.5	2237.5	2318.5	2342.0	2365.4	2388.9	2412.3	2435.8	2459.2	2482.7
80°	1955.8	2031.0	2106.1	2181.2	2203.4	2225.6	2247.8	2270.0	2292.1	2314.3	2336.5
82.5°	1817.1	1885.4	1953.7	2022.0	2042.8	2063.6	2084.4	2105.2	2126.0	2146.8	2167.6
85°	1668.4	1730.5	1792.5	1854.6	1873.9	1893.2	1912.5	1931.8	1951.1	1970.4	1989.7
87.5°	1516.5	1572.4	1628.2	1684.0	1702.3	1720.5	1738.8	1757.0	1775.3	1793.5	1811.8
90°	1377.2	1427.4	1477.7	1528.0	1545.3	1562.7	1580.0	1597.3	1614.7	1632.0	1649.3
92.5°	1261.0	1307.0	1353.0	1399.0	1415.4	1431.8	1448.2	1464.6	1481.1	1497.5	1513.9
95°	1167.7	1211.2	1254.6	1298.1	1312.9	1327.7	1342.5	1357.3	1372.0	1386.8	1401.6
97.5°	1081.4	1122.0	1162.7	1203.4	1218.2	1233.0	1247.8	1262.6	1277.4	1292.2	1307.0
100°	1013.1	1052.2	1091.4	1130.6	1144.9	1159.3	1173.6	1187.9	1202.3	1216.6	1230.9
102.5°	955.2	993.3	1031.3	1069.3	1083.4	1097.5	1111.6	1125.7	1139.8	1153.9	1168.0
105°	901.4	938.3	975.1	1012.0	1026.6	1041.1	1055.7	1070.3	1084.8	1099.4	1114.0
107.5°	856.0	892.4	928.8	965.2	979.5	993.9	1008.2	1022.5	1036.9	1051.2	1065.5
110°	810.9	846.8	882.6	918.4	932.6	946.8	961.1	975.3	989.5	1003.7	1018.0



TEST NUMBER: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	767.3	802.0	836.8	871.6	885.7	899.8	913.9	928.0	942.1	956.2	970.3
115°	723.2	756.4	789.5	822.7	836.6	850.5	864.3	878.2	892.1	906.0	919.8
117.5°	680.6	712.3	744.1	775.9	789.0	802.0	815.1	828.2	841.2	854.3	867.4
120°	639.0	670.1	701.2	732.3	744.7	757.0	769.4	781.7	794.1	806.4	818.8
122.5°	595.3	625.7	656.1	686.5	698.5	710.5	722.6	734.6	746.6	758.6	770.7
125°	549.2	577.9	606.7	635.5	647.4	659.3	671.2	683.1	695.1	707.0	718.9
127.5°	499.3	525.6	552.0	578.3	590.0	601.7	613.3	625.0	636.7	648.4	660.0
130°	445.5	469.7	493.8	518.0	529.0	540.0	550.9	561.9	572.9	583.9	594.8
132.5°	396.6	419.4	442.1	464.9	474.3	483.6	493.0	502.4	511.7	521.1	530.5
135°	351.9	374.0	396.0	418.1	426.1	434.1	442.0	450.0	458.0	466.0	473.9
137.5°	306.2	326.5	346.9	367.2	374.9	382.7	390.4	398.2	405.9	413.7	421.4
140°	258.0	275.3	292.7	310.0	318.2	326.4	334.6	342.8	351.0	359.2	367.4
142.5°	214.6	229.4	244.2	259.0	267.2	275.4	283.6	291.8	300.0	308.2	316.4
145°	173.4	185.6	197.9	210.1	218.4	226.7	235.1	243.4	251.7	260.0	268.4
147.5°	138.3	148.4	158.4	168.5	176.4	184.2	192.1	199.9	207.8	215.6	223.5
150°	109.5	118.1	126.6	135.2	142.3	149.3	156.4	163.4	170.5	177.5	184.6
152.5°	81.5	88.3	95.1	101.9	108.5	115.1	121.7	128.3	134.8	141.4	148.0
155°	56.9	62.2	67.5	72.8	78.7	84.6	90.5	96.4	102.3	108.2	114.1
157.5°	37.5	41.3	45.1	48.9	53.9	58.8	63.8	68.8	73.7	78.7	83.7
160°	20.4	22.6	24.8	27.0	31.0	35.1	39.1	43.2	47.2	51.3	55.3
162.5°	9.4	10.4	11.5	12.5	15.2	17.8	20.5	23.1	25.8	28.4	31.1
165°	2.1	2.4	2.8	3.1	4.7	6.3	8.0	9.6	11.2	12.8	14.5
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: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1040.1	1040.1
2.5°	1061.9	1060.9
5°	1092.1	1092.1
7.5°	1116.9	1117.1
10°	1139.7	1140.0
12.5°	1164.8	1166.0
15°	1190.9	1193.0
17.5°	1223.4	1226.3
20°	1257.1	1260.6
22.5°	1290.6	1295.0
25°	1320.5	1325.1
27.5°	1355.0	1360.5
30°	1392.4	1399.0
32.5°	1436.7	1444.7
35°	1486.1	1495.7
37.5°	1544.6	1556.0
40°	1612.1	1625.7
42.5°	1690.0	1705.8
45°	1781.0	1799.4
47.5°	1883.6	1904.5
50°	1997.3	2021.0
52.5°	2120.5	2146.8
55°	2245.4	2273.7
57.5°	2369.6	2399.6
60°	2486.1	2517.1
62.5°	2586.1	2617.0
65°	2662.7	2692.9
67.5°	2712.3	2741.8
70°	2723.9	2752.2
72.5°	2692.9	2719.9
75°	2619.3	2645.1
77.5°	2506.1	2529.6
80°	2358.7	2380.9
82.5°	2188.4	2209.2
85°	2009.0	2028.3
87.5°	1830.0	1848.3
90°	1666.7	1684.0
92.5°	1530.3	1546.7
95°	1416.4	1431.2
97.5°	1321.8	1336.6
100°	1245.3	1259.6
102.5°	1182.1	1196.2
105°	1128.5	1143.1
107.5°	1079.9	1094.2
110°	1032.2	1046.4



TEST NUMBER: P201347

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	984.4	998.5
115°	933.7	947.6
117.5°	880.4	893.5
120°	831.1	843.5
122.5°	782.7	794.7
125°	730.8	742.7
127.5°	671.7	683.4
130°	605.8	616.8
132.5°	539.8	549.2
135°	481.9	489.9
137.5°	429.2	436.9
140°	375.6	383.8
142.5°	324.6	332.8
145°	276.7	285.0
147.5°	231.3	239.2
150°	191.6	198.7
152.5°	154.6	161.2
155°	120.0	125.9
157.5°	88.6	93.6
160°	59.4	63.4
162.5°	33.7	36.4
165°	16.1	17.7
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)