

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: P201350

Luminaire Tested: **4LBLED-LD4-9-ASYMF-UNV-L850-CD2-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P201350  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28236)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4LBLED-LD4-9-ASYMF-UNV-L850-CD2-U  
Description: 4 ft. Low Bay Linear, 9000 lm, Frst Asym lens, 5K  
Light Source: (308) 5000K CCT, 80 CRI LEDS  
2UT217098A8504C, 2UT217056A8504B  
Ballast/Driver: OSRAM  
OT50W0980CC, OT50W0600CC

**Summary**

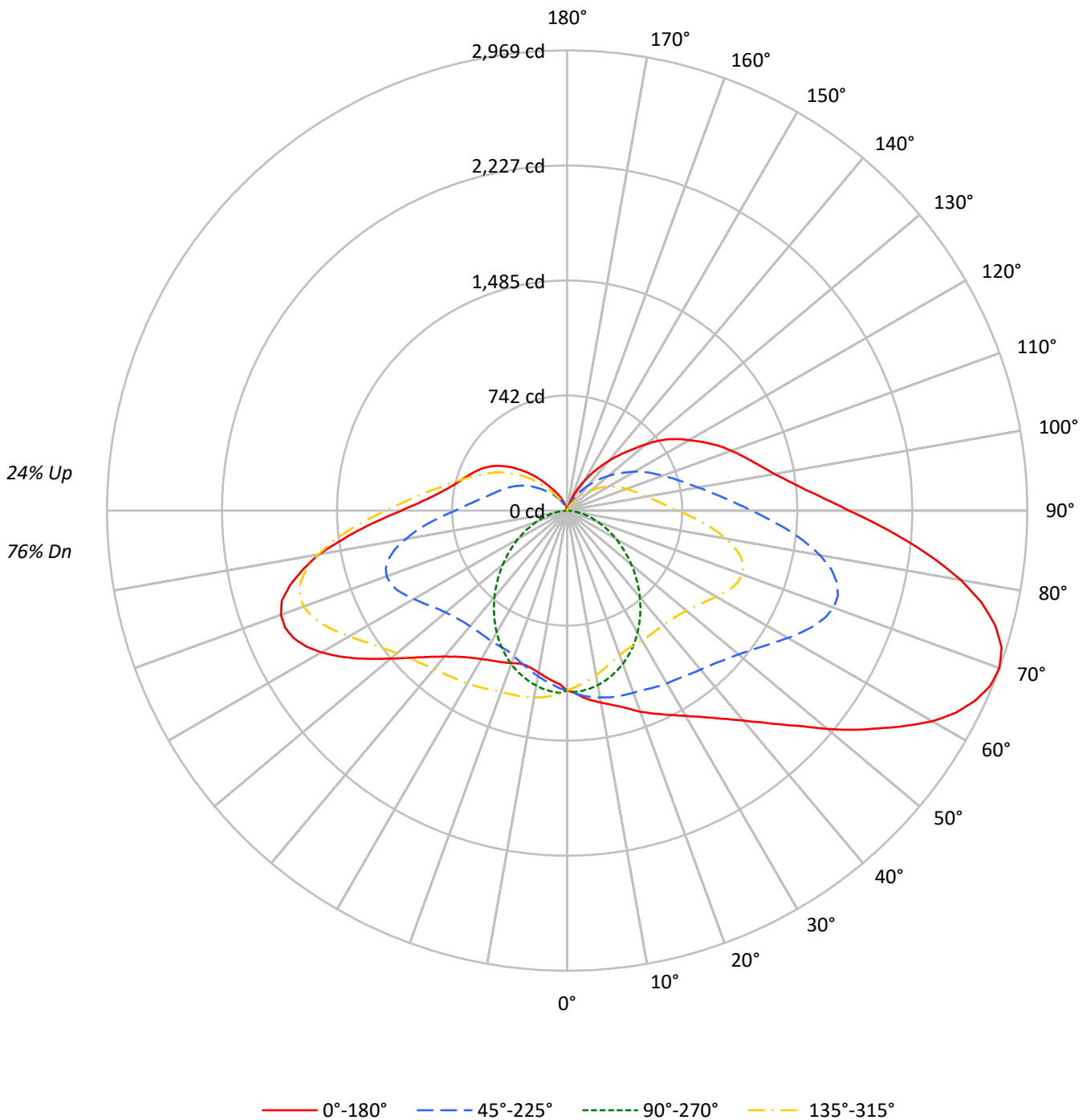
Lumens per Lamp: N/A  
Luminaire Lumens: 10035.5 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Spacing Criteria (0/90/45): 2 / 1.17 / 1.78  
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.17' x H: 0.21')  
CIE Type: Semi-Direct  
  
Input Watts (W): 72.9  
Input Voltage (V): NR  
Input 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	27	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°	18705	18705	18705	18705
5°	17661	18775	16079	18859
10°	16873	18534	14230	18600
15°	16356	18156	12916	18223
20°	16290	17711	12356	17746
25°	16313	17110	12070	17129
30°	16555	16395	11965	16413
35°	17145	15585	12120	15603
40°	18187	14701	12646	14722
45°	19795	13747	13577	13747
50°	22111	12766	14982	12789
55°	24766	11745	16803	11799
60°	27760	10720	18676	10782
65°	30151	9721	20227	9759
70°	31628	8463	20938	8550
75°	31515	7336	20375	7498
80°	29678	5898	18706	6048
85°	26602	3861	16108	4105



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.3	1.1
10°-20°	321.6	3.2
20°-30°	518.2	5.2
30°-40°	701.8	7.0
40°-50°	900.4	9.0
50°-60°	1150.4	11.5
60°-70°	1404.9	14.0
70°-80°	1436.0	14.3
80°-90°	1125.6	11.2
90°-100°	785.9	7.8
100°-110°	585.8	5.8
110°-120°	438.2	4.4
120°-130°	297.5	3.0
130°-140°	164.8	1.6
140°-150°	70.9	0.7
150°-160°	21.2	0.2
160°-170°	2.2	0.0
170°-180°	0.0	0.0
0°-30°	950.0	9.5
0°-40°	1651.8	16.5
0°-60°	3702.5	36.9
0°-90°	7669.0	76.4
90°-120°	1809.8	18.0
90°-150°	2343.1	23.3
90°-180°	2366.0	23.6
0°-180°	10035.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1161	1161	1161	1161	1161	
5°	1211	1166	1102	1171	1211	117
15°	1308	1104	1033	1108	1308	374
25°	1450	986	1073	987	1450	674
35°	1632	821	1154	822	1632	1032
45°	1951	635	1338	635	1951	1523
55°	2450	449	1662	451	2450	2206
65°	2903	283	1948	284	2903	2862
75°	2859	141	1848	144	2859	2990
85°	2192	33	1328	35	2192	1870
90°	1818	0	1068	1	1818	1001
95°	1544	0	898	0	1544	1226
105°	1233	0	722	1	1233	1309
115°	1021	0	625	1	1021	1014
125°	802	0	499	1	802	717
135°	531	0	333	1	531	417
145°	313	0	176	1	313	200
155°	140	0	79	2	140	67
165°	22	0	14	2	22	8
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: 4LBLEDD4-9-ASYMF-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8
2.5°	1178.5	1178.3	1178.0	1177.8	1177.6	1177.3	1177.1	1176.9	1176.6	1176.4	1177.0
5°	1210.8	1209.6	1208.5	1207.3	1206.2	1205.0	1203.9	1202.7	1201.6	1200.4	1200.3
7.5°	1235.8	1234.3	1232.8	1231.3	1229.8	1228.2	1226.7	1225.2	1223.7	1222.2	1221.2
10°	1257.7	1255.7	1253.8	1251.8	1249.8	1247.9	1245.9	1243.9	1242.0	1240.0	1238.3
12.5°	1281.6	1279.3	1277.0	1274.7	1272.4	1270.0	1267.7	1265.4	1263.1	1260.8	1257.9
15°	1307.7	1304.9	1302.1	1299.4	1296.6	1293.8	1291.0	1288.3	1285.5	1282.7	1278.2
17.5°	1342.1	1338.2	1334.2	1330.3	1326.3	1322.4	1318.4	1314.5	1310.5	1306.6	1299.9
20°	1380.6	1375.4	1370.2	1365.0	1359.8	1354.5	1349.3	1344.1	1338.9	1333.7	1324.4
22.5°	1415.0	1409.0	1403.0	1396.9	1390.9	1384.9	1378.9	1372.8	1366.8	1360.8	1349.1
25°	1450.4	1443.8	1437.2	1430.6	1424.0	1417.4	1410.8	1404.2	1397.6	1391.0	1377.1
27.5°	1488.0	1480.6	1473.2	1465.8	1458.4	1450.9	1443.5	1436.1	1428.7	1421.3	1405.3
30°	1529.6	1520.9	1512.2	1503.6	1494.9	1486.2	1477.5	1468.9	1460.2	1451.5	1433.2
32.5°	1576.5	1566.8	1557.1	1547.3	1537.6	1527.9	1518.2	1508.4	1498.7	1489.0	1467.5
35°	1631.7	1619.8	1607.9	1595.9	1584.0	1572.1	1560.2	1548.2	1536.3	1524.4	1500.2
37.5°	1695.3	1681.6	1668.0	1654.3	1640.7	1627.0	1613.4	1599.7	1586.1	1572.4	1544.7
40°	1768.2	1752.6	1737.0	1721.3	1705.7	1690.1	1674.5	1658.8	1643.2	1627.6	1595.5
42.5°	1853.7	1835.8	1817.8	1799.9	1781.9	1764.0	1746.0	1728.1	1710.1	1692.2	1655.0
45°	1950.6	1930.9	1911.2	1891.6	1871.9	1852.2	1832.5	1812.9	1793.2	1773.5	1730.0
47.5°	2059.0	2036.2	2013.4	1990.6	1967.8	1944.9	1922.1	1899.3	1876.5	1853.7	1804.4
50°	2191.3	2165.0	2138.7	2112.5	2086.2	2059.9	2033.6	2007.4	1981.1	1954.8	1897.9
52.5°	2323.6	2294.7	2265.7	2236.8	2207.8	2178.9	2149.9	2121.0	2092.0	2063.1	1998.6
55°	2449.7	2419.7	2389.7	2359.7	2329.7	2299.8	2269.8	2239.8	2209.8	2179.8	2107.7
57.5°	2586.2	2554.9	2523.7	2492.4	2461.2	2429.9	2398.7	2367.4	2336.2	2304.9	2224.9
60°	2719.6	2686.9	2654.3	2621.6	2589.0	2556.3	2523.7	2491.0	2458.4	2425.7	2338.8
62.5°	2825.9	2793.6	2761.3	2729.0	2696.7	2664.3	2632.0	2599.7	2567.4	2535.1	2442.7
65°	2903.0	2872.4	2841.9	2811.3	2780.7	2750.2	2719.6	2689.0	2658.5	2627.9	2531.2
67.5°	2955.1	2925.7	2896.3	2866.9	2837.5	2808.0	2778.6	2749.2	2719.8	2690.4	2591.8
70°	2968.6	2940.7	2912.8	2884.9	2857.0	2829.1	2801.2	2773.3	2745.4	2717.5	2618.9
72.5°	2939.4	2912.7	2885.9	2859.2	2832.4	2805.7	2778.9	2752.2	2725.4	2698.7	2602.4
75°	2859.2	2834.0	2808.7	2783.5	2758.3	2733.0	2707.8	2682.6	2657.3	2632.1	2540.1
77.5°	2738.3	2714.2	2690.1	2666.1	2642.0	2617.9	2593.8	2569.8	2545.7	2521.6	2435.2
80°	2578.9	2556.1	2533.3	2510.5	2487.7	2464.8	2442.0	2419.2	2396.4	2373.6	2294.0
82.5°	2390.3	2369.2	2348.2	2327.1	2306.0	2285.0	2263.9	2242.8	2221.8	2200.7	2128.1
85°	2192.3	2172.5	2152.7	2132.9	2113.1	2093.4	2073.6	2053.8	2034.0	2014.2	1949.1
87.5°	1996.4	1977.9	1959.4	1940.8	1922.3	1903.8	1885.3	1866.7	1848.2	1829.7	1771.2
90°	1818.3	1801.0	1783.8	1766.5	1749.3	1732.0	1714.8	1697.5	1680.3	1663.0	1610.3
92.5°	1669.3	1653.1	1636.9	1620.7	1604.5	1588.2	1572.0	1555.8	1539.6	1523.4	1475.2
95°	1544.2	1528.8	1513.4	1498.0	1482.6	1467.2	1451.8	1436.4	1421.0	1405.6	1360.9
97.5°	1442.1	1427.2	1412.2	1397.3	1382.4	1367.4	1352.5	1337.6	1322.6	1307.7	1265.2
100°	1358.7	1344.0	1329.3	1314.6	1299.9	1285.2	1270.5	1255.8	1241.1	1226.4	1185.4
102.5°	1291.0	1277.1	1263.2	1249.3	1235.4	1221.6	1207.7	1193.8	1179.9	1166.0	1125.0
105°	1232.7	1218.1	1203.5	1188.9	1174.3	1159.8	1145.2	1130.6	1116.0	1101.4	1062.1
107.5°	1179.5	1164.9	1150.3	1135.7	1121.1	1106.6	1092.0	1077.4	1062.8	1048.2	1009.8
110°	1128.5	1113.9	1099.3	1084.7	1070.1	1055.6	1041.0	1026.4	1011.8	997.2	959.6



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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°	1076.4	1061.8	1047.2	1032.6	1018.0	1003.5	988.9	974.3	959.7	945.1	908.6
115°	1021.1	1006.7	992.4	978.0	963.7	949.3	935.0	920.6	906.3	891.9	857.2
117.5°	963.8	950.1	936.5	922.8	909.2	895.5	881.9	868.2	854.6	840.9	807.7
120°	909.7	896.8	884.0	871.1	858.3	845.4	832.6	819.7	806.9	794.0	761.6
122.5°	858.6	846.1	833.6	821.1	808.6	796.1	783.6	771.1	758.6	746.1	714.3
125°	802.3	790.0	777.8	765.5	753.2	741.0	728.7	716.4	704.2	691.9	661.6
127.5°	738.8	726.9	714.9	703.0	691.1	679.1	667.2	655.3	643.3	631.4	603.9
130°	665.8	654.9	644.0	633.2	622.3	611.4	600.5	589.7	578.8	567.9	543.5
132.5°	593.9	584.8	575.6	566.5	557.3	548.2	539.0	529.9	520.7	511.6	489.6
135°	531.4	523.5	515.7	507.8	499.9	492.1	484.2	476.3	468.5	460.6	440.5
137.5°	474.1	466.9	459.7	452.6	445.4	438.2	431.0	423.9	416.7	409.5	391.0
140°	417.8	411.3	404.8	398.4	391.9	385.4	378.9	372.5	366.0	359.5	342.8
142.5°	362.6	357.0	351.5	345.9	340.4	334.8	329.3	323.7	318.2	312.6	297.8
145°	312.6	307.7	302.9	298.0	293.1	288.3	283.4	278.5	273.7	268.8	255.7
147.5°	264.7	260.3	255.9	251.5	247.1	242.7	238.3	233.9	229.5	225.1	214.0
150°	217.8	214.3	210.8	207.4	203.9	200.4	196.9	193.5	190.0	186.5	176.9
152.5°	177.1	174.1	171.1	168.1	165.1	162.0	159.0	156.0	153.0	150.0	141.8
155°	139.6	137.1	134.5	132.0	129.4	126.9	124.3	121.8	119.2	116.7	109.5
157.5°	104.2	102.1	100.0	97.9	95.8	93.8	91.7	89.6	87.5	85.4	79.6
160°	71.9	70.2	68.4	66.7	65.0	63.2	61.5	59.8	58.0	56.3	52.1
162.5°	42.7	41.4	40.2	38.9	37.6	36.4	35.1	33.8	32.6	31.3	29.0
165°	21.9	21.2	20.5	19.8	19.1	18.4	17.7	17.0	16.3	15.6	14.3
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°	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8
2.5°	1177.6	1178.1	1178.7	1179.3	1179.9	1180.4	1181.0	1181.6	1179.5	1177.4	1175.4
5°	1200.2	1200.0	1199.9	1199.8	1199.7	1199.5	1199.4	1199.3	1195.9	1192.6	1189.2
7.5°	1220.1	1219.1	1218.1	1217.0	1216.0	1215.0	1213.9	1212.9	1208.4	1203.9	1199.3
10°	1236.5	1234.8	1233.0	1231.3	1229.5	1227.8	1226.0	1224.3	1218.3	1212.3	1206.2
12.5°	1255.0	1252.1	1249.2	1246.4	1243.5	1240.6	1237.7	1234.8	1227.0	1219.3	1211.5
15°	1273.7	1269.1	1264.6	1260.1	1255.6	1251.0	1246.5	1242.0	1232.6	1223.2	1213.9
17.5°	1293.2	1286.5	1279.8	1273.0	1266.3	1259.6	1252.9	1246.2	1235.2	1224.2	1213.2
20°	1315.2	1305.9	1296.7	1287.4	1278.2	1268.9	1259.7	1250.4	1237.3	1224.2	1211.1
22.5°	1337.4	1325.7	1314.0	1302.4	1290.7	1279.0	1267.3	1255.6	1240.0	1224.3	1208.7
25°	1363.2	1349.3	1335.4	1321.6	1307.7	1293.8	1279.9	1266.0	1247.1	1228.3	1209.4
27.5°	1389.3	1373.4	1357.4	1341.4	1325.4	1309.5	1293.5	1277.5	1254.9	1232.3	1209.8
30°	1414.9	1396.6	1378.3	1360.1	1341.8	1323.5	1305.2	1286.9	1260.6	1234.3	1208.0
32.5°	1445.9	1424.4	1402.9	1381.3	1359.8	1338.3	1316.7	1295.2	1265.3	1235.5	1205.6
35°	1476.0	1451.8	1427.6	1403.4	1379.2	1355.0	1330.8	1306.6	1272.8	1239.0	1205.2
37.5°	1517.0	1489.4	1461.7	1434.0	1406.3	1378.7	1351.0	1323.3	1285.3	1247.3	1209.4
40°	1563.4	1531.4	1499.3	1467.2	1435.1	1403.1	1371.0	1338.9	1297.1	1255.3	1213.5
42.5°	1617.9	1580.7	1543.5	1506.4	1469.2	1432.0	1394.9	1357.7	1311.6	1265.5	1219.5
45°	1686.4	1642.9	1599.4	1555.8	1512.3	1468.8	1425.2	1381.7	1330.9	1280.0	1229.2
47.5°	1755.1	1705.7	1656.4	1607.1	1557.8	1508.4	1459.1	1409.8	1353.6	1297.5	1241.3
50°	1841.1	1784.2	1727.4	1670.5	1613.7	1556.8	1500.0	1443.1	1381.3	1319.5	1257.6
52.5°	1934.1	1869.6	1805.1	1740.7	1676.2	1611.7	1547.2	1482.7	1414.6	1346.6	1278.5
55°	2035.6	1963.4	1891.3	1819.2	1747.1	1674.9	1602.8	1530.7	1455.7	1380.7	1305.6
57.5°	2144.9	2064.9	1984.9	1904.9	1824.9	1744.9	1664.9	1584.9	1502.2	1419.6	1336.9
60°	2251.8	2164.9	2077.9	1991.0	1904.0	1817.1	1730.1	1643.2	1552.8	1462.4	1371.9
62.5°	2350.3	2257.9	2165.5	2073.2	1980.8	1888.4	1796.0	1703.6	1605.3	1507.0	1408.7
65°	2434.5	2337.9	2241.2	2144.5	2047.8	1951.2	1854.5	1757.8	1652.1	1546.4	1440.7
67.5°	2493.1	2394.5	2295.8	2197.2	2098.5	1999.9	1901.2	1802.6	1690.3	1578.0	1465.7
70°	2520.2	2421.6	2322.9	2224.3	2125.6	2027.0	1928.3	1829.7	1712.4	1595.1	1477.9
72.5°	2506.1	2409.7	2313.4	2217.1	2120.8	2024.4	1928.1	1831.8	1712.0	1592.2	1472.3
75°	2448.0	2356.0	2263.9	2171.9	2079.8	1987.8	1895.7	1803.7	1684.0	1564.3	1444.6
77.5°	2348.9	2262.5	2176.1	2089.8	2003.4	1917.0	1830.7	1744.3	1627.7	1511.1	1394.5
80°	2214.3	2134.7	2055.0	1975.4	1895.7	1816.1	1736.4	1656.8	1545.9	1435.0	1324.0
82.5°	2055.5	1982.9	1910.3	1837.7	1765.1	1692.5	1619.9	1547.3	1444.0	1340.8	1237.5
85°	1884.1	1819.0	1753.9	1688.9	1623.8	1558.7	1493.7	1428.6	1333.9	1239.2	1144.5
87.5°	1712.8	1654.3	1595.8	1537.4	1478.9	1420.4	1362.0	1303.5	1217.7	1131.9	1046.1
90°	1557.6	1505.0	1452.3	1399.6	1346.9	1294.3	1241.6	1188.9	1110.9	1032.8	954.8
92.5°	1427.1	1378.9	1330.7	1282.6	1234.4	1186.2	1138.1	1089.9	1018.9	948.0	877.0
95°	1316.2	1271.5	1226.8	1182.2	1137.5	1092.8	1048.1	1003.4	938.3	873.3	808.2
97.5°	1222.7	1180.2	1137.7	1095.3	1052.8	1010.3	967.8	925.3	865.2	805.1	745.0
100°	1144.4	1103.5	1062.5	1021.5	980.5	939.6	898.6	857.6	801.6	745.5	689.5
102.5°	1084.0	1043.0	1002.0	961.1	920.1	879.1	838.1	797.1	744.3	691.5	638.7
105°	1022.9	983.6	944.4	905.1	865.9	826.6	787.4	748.1	697.5	646.9	596.3
107.5°	971.3	932.9	894.5	856.0	817.6	779.2	740.7	702.3	653.9	605.5	557.1
110°	921.9	884.3	846.7	809.0	771.4	733.8	696.1	658.5	612.0	565.4	518.9





TEST NUMBER: P201350

CATALOG NUMBER: 4LBLED-LD4-9-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°	872.2	835.7	799.2	762.8	726.3	689.8	653.4	616.9	572.3	527.7	483.2
115°	822.4	787.7	753.0	718.2	683.5	648.8	614.0	579.3	536.8	494.3	451.8
117.5°	774.4	741.2	708.0	674.7	641.5	608.3	575.0	541.8	501.4	461.0	420.6
120°	729.2	696.7	664.3	631.9	599.5	567.0	534.6	502.2	464.2	426.3	388.3
122.5°	682.4	650.6	618.7	586.9	555.0	523.2	491.3	459.5	424.5	389.6	354.6
125°	631.2	600.9	570.6	540.2	509.9	479.6	449.2	418.9	386.6	354.3	322.0
127.5°	576.3	548.8	521.2	493.7	466.1	438.6	411.0	383.5	353.5	323.5	293.5
130°	519.0	494.6	470.2	445.7	421.3	396.9	372.4	348.0	320.3	292.7	265.0
132.5°	467.6	445.6	423.6	401.6	379.6	357.6	335.6	313.6	288.1	262.7	237.2
135°	420.3	400.2	380.0	359.9	339.7	319.6	299.4	279.3	256.1	233.0	209.8
137.5°	372.5	353.9	335.4	316.9	298.4	279.8	261.3	242.8	222.1	201.4	180.6
140°	326.1	309.5	292.8	276.1	259.4	242.8	226.1	209.4	190.9	172.4	153.8
142.5°	283.0	268.1	253.3	238.5	223.7	208.8	194.0	179.2	162.9	146.6	130.2
145°	242.6	229.6	216.5	203.4	190.3	177.3	164.2	151.1	136.9	122.6	108.4
147.5°	202.9	191.7	180.6	169.5	158.4	147.2	136.1	125.0	112.8	100.7	88.5
150°	167.3	157.7	148.1	138.4	128.8	119.2	109.6	100.0	90.0	80.1	70.1
152.5°	133.6	125.4	117.2	108.9	100.7	92.5	84.3	76.1	68.3	60.6	52.8
155°	102.3	95.2	88.0	80.8	73.6	66.5	59.3	52.1	46.8	41.5	36.1
157.5°	73.8	68.0	62.2	56.5	50.7	44.9	39.1	33.3	29.8	26.4	22.9
160°	48.0	43.8	39.6	35.5	31.3	27.1	23.0	18.8	16.7	14.6	12.5
162.5°	26.7	24.3	22.0	19.7	17.4	15.0	12.7	10.4	9.2	8.1	6.9
165°	13.1	11.8	10.5	9.3	8.0	6.7	5.5	4.2	3.7	3.3	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: P201350

CATALOG NUMBER: 4LBLEDD4-9-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°	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8
2.5°	1173.3	1171.2	1169.1	1167.1	1165.0	1162.9	1163.8	1164.7	1165.7	1166.6	1167.5
5°	1185.9	1182.5	1179.2	1175.8	1172.5	1169.1	1168.8	1168.4	1168.1	1167.7	1167.4
7.5°	1194.8	1190.3	1185.8	1181.2	1176.7	1172.2	1170.5	1168.7	1167.0	1165.3	1163.5
10°	1200.2	1194.2	1188.2	1182.1	1176.1	1170.1	1167.1	1164.1	1161.1	1158.1	1155.1
12.5°	1203.7	1196.0	1188.2	1180.4	1172.7	1164.9	1160.5	1156.1	1151.7	1147.3	1142.9
15°	1204.5	1195.1	1185.7	1176.4	1167.0	1157.6	1151.6	1145.6	1139.6	1133.6	1127.5
17.5°	1202.2	1191.2	1180.2	1169.2	1158.2	1147.2	1139.7	1132.2	1124.6	1117.1	1109.6
20°	1198.0	1185.0	1171.9	1158.8	1145.7	1132.6	1123.7	1114.8	1105.9	1097.0	1088.0
22.5°	1193.1	1177.4	1161.8	1146.2	1130.5	1114.9	1104.4	1093.8	1083.3	1072.8	1062.2
25°	1190.5	1171.7	1152.8	1133.9	1115.1	1096.2	1083.9	1071.6	1059.4	1047.1	1034.8
27.5°	1187.2	1164.6	1142.0	1119.5	1096.9	1074.3	1060.3	1046.3	1032.3	1018.3	1004.2
30°	1181.7	1155.5	1129.2	1102.9	1076.6	1050.3	1034.4	1018.6	1002.7	986.9	971.0
32.5°	1175.7	1145.9	1116.0	1086.1	1056.3	1026.4	1008.4	990.5	972.5	954.6	936.6
35°	1171.4	1137.6	1103.8	1070.0	1036.2	1002.4	982.3	962.1	942.0	921.8	901.7
37.5°	1171.4	1133.4	1095.4	1057.5	1019.5	981.5	958.7	935.9	913.1	890.3	867.5
40°	1171.7	1130.0	1088.2	1046.4	1004.6	962.8	936.9	910.9	885.0	859.1	833.1
42.5°	1173.4	1127.3	1081.2	1035.2	989.1	943.0	914.1	885.1	856.2	827.2	798.3
45°	1178.4	1127.5	1076.7	1025.9	975.0	924.2	892.0	859.8	827.7	795.5	763.3
47.5°	1185.2	1129.0	1072.9	1016.7	960.6	904.4	869.2	834.0	798.8	763.6	728.5
50°	1195.8	1134.0	1072.2	1010.3	948.5	886.7	848.3	809.8	771.4	733.0	694.5
52.5°	1210.4	1142.4	1074.3	1006.2	938.2	870.1	828.3	786.5	744.7	702.9	661.1
55°	1230.6	1155.6	1080.6	1005.5	930.5	855.5	810.3	765.2	720.0	674.9	629.7
57.5°	1254.2	1171.6	1088.9	1006.2	923.6	840.9	792.5	744.1	695.7	647.3	598.9
60°	1281.5	1191.1	1100.7	1010.2	919.8	829.4	777.5	725.7	673.8	621.9	570.1
62.5°	1310.4	1212.2	1113.9	1015.6	917.3	819.0	763.9	708.8	653.7	598.6	543.4
65°	1335.0	1229.3	1123.6	1017.9	912.2	806.5	748.4	690.3	632.1	574.0	515.9
67.5°	1353.4	1241.1	1128.8	1016.5	904.2	791.9	731.1	670.3	609.6	548.8	488.0
70°	1360.6	1243.3	1126.0	1008.8	891.5	774.2	711.0	647.8	584.6	521.4	458.1
72.5°	1352.5	1232.7	1112.9	993.0	873.2	753.4	689.0	624.6	560.3	495.9	431.5
75°	1324.9	1205.1	1085.4	965.7	846.0	726.3	661.2	596.2	531.1	466.0	401.0
77.5°	1277.9	1161.4	1044.8	928.2	811.6	695.0	630.1	565.1	500.2	435.2	370.3
80°	1213.1	1102.2	991.3	880.3	769.4	658.5	594.5	530.5	466.4	402.4	338.4
82.5°	1134.2	1031.0	927.7	824.4	721.2	617.9	555.4	492.9	430.3	367.8	305.3
85°	1049.8	955.0	860.3	765.6	670.9	576.2	515.9	455.6	395.2	334.9	274.6
87.5°	960.3	874.6	788.8	703.0	617.2	531.4	473.7	416.1	358.4	300.8	243.1
90°	876.8	798.7	720.7	642.7	564.6	486.6	432.5	378.5	324.4	270.3	216.3
92.5°	806.0	735.1	664.1	593.1	522.2	451.2	401.1	350.9	300.8	250.7	200.5
95°	743.1	678.1	613.0	547.9	482.9	417.8	371.4	325.0	278.5	232.1	185.7
97.5°	684.9	624.9	564.8	504.7	444.6	384.5	341.8	299.1	256.3	213.6	170.9
100°	633.4	577.4	521.3	465.3	409.2	353.2	314.0	274.7	235.5	196.2	157.0
102.5°	585.9	533.2	480.4	427.6	374.8	322.0	286.2	250.4	214.7	178.9	143.1
105°	545.7	495.2	444.6	394.0	343.4	292.8	260.3	227.7	195.2	162.7	130.1
107.5°	508.7	460.3	411.9	363.5	315.1	266.7	237.1	207.4	177.8	148.2	118.5
110°	472.4	425.8	379.3	332.8	286.2	239.7	213.1	186.4	159.8	133.2	106.5



TEST NUMBER: P201350

CATALOG NUMBER: 4LBLED-LD4-9-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°	438.6	394.0	349.4	304.9	260.3	215.7	191.7	167.8	143.8	119.8	95.9
115°	409.3	366.9	324.4	281.9	239.4	196.9	175.0	153.1	131.3	109.4	87.5
117.5°	380.2	339.8	299.4	259.0	218.6	178.2	158.4	138.6	118.8	99.0	79.2
120°	350.3	312.4	274.4	236.4	198.5	160.5	142.7	124.8	107.0	89.2	71.3
122.5°	319.6	284.7	249.7	214.7	179.8	144.8	128.7	112.6	96.5	80.4	64.4
125°	289.7	257.4	225.1	192.8	160.5	128.2	114.0	99.7	85.5	71.2	57.0
127.5°	263.5	233.6	203.6	173.6	143.6	113.6	101.0	88.4	75.7	63.1	50.5
130°	237.3	209.7	182.0	154.3	126.7	99.0	88.0	77.0	66.0	55.0	44.0
132.5°	211.7	186.3	160.8	135.3	109.9	84.4	75.0	65.6	56.3	46.9	37.5
135°	186.7	163.5	140.4	117.2	94.1	70.9	63.0	55.1	47.3	39.4	31.5
137.5°	159.9	139.2	118.5	97.7	77.0	56.3	50.0	43.8	37.5	31.3	25.0
140°	135.3	116.8	98.3	79.7	61.2	42.7	38.0	33.2	28.5	23.7	19.0
142.5°	113.9	97.6	81.3	64.9	48.6	32.3	28.7	25.1	21.5	17.9	14.4
145°	94.1	79.9	65.6	51.4	37.1	22.9	20.4	17.8	15.3	12.7	10.2
147.5°	76.4	64.2	52.1	39.9	27.8	15.6	13.9	12.1	10.4	8.7	6.9
150°	60.2	50.2	40.3	30.3	20.4	10.4	9.2	8.1	6.9	5.8	4.6
152.5°	45.1	37.3	29.6	21.8	14.1	6.3	5.6	4.9	4.2	3.5	2.8
155°	30.8	25.5	20.2	14.8	9.5	4.2	3.7	3.3	2.8	2.3	1.9
157.5°	19.4	16.0	12.5	9.0	5.6	2.1	1.9	1.6	1.4	1.2	0.9
160°	10.4	8.4	6.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	5.8	4.6	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.3	1.9	1.4	0.9	0.5	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: P201350

CATALOG NUMBER: 4LBLEDD4-9-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°	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8
2.5°	1168.4	1169.4	1170.3	1171.2	1168.4	1165.6	1162.9	1160.1	1157.3	1154.5	1151.8
5°	1167.0	1166.7	1166.3	1166.0	1162.3	1158.6	1154.9	1151.2	1147.4	1143.7	1140.0
7.5°	1161.8	1160.1	1158.3	1156.6	1152.0	1147.3	1142.7	1138.1	1133.4	1128.8	1124.2
10°	1152.1	1149.1	1146.1	1143.1	1137.8	1132.4	1127.1	1121.8	1116.4	1111.1	1105.8
12.5°	1138.5	1134.1	1129.7	1125.3	1119.4	1113.5	1107.6	1101.7	1095.8	1089.9	1084.0
15°	1121.5	1115.5	1109.5	1103.5	1097.4	1091.2	1085.1	1078.9	1072.8	1066.6	1060.5
17.5°	1102.1	1094.5	1087.0	1079.5	1073.0	1066.5	1060.0	1053.5	1047.1	1040.6	1034.1
20°	1079.1	1070.2	1061.3	1052.4	1045.7	1039.0	1032.3	1025.6	1018.8	1012.1	1005.4
22.5°	1051.7	1041.2	1030.6	1020.1	1013.5	1006.9	1000.3	993.7	987.1	980.5	973.9
25°	1022.5	1010.3	998.0	985.7	979.4	973.2	966.9	960.7	954.4	948.2	941.9
27.5°	990.2	976.2	962.2	948.2	942.4	936.6	930.8	925.0	919.3	913.5	907.7
30°	955.2	939.3	923.5	907.6	902.5	897.4	892.3	887.2	882.1	877.0	871.9
32.5°	918.7	900.7	882.8	864.8	860.8	856.7	852.7	848.6	844.6	840.5	836.5
35°	881.5	861.4	841.2	821.1	818.3	815.5	812.8	810.0	807.2	804.4	801.7
37.5°	844.7	821.9	799.1	776.3	775.4	774.4	773.5	772.6	771.6	770.7	769.8
40°	807.2	781.3	755.3	729.4	730.8	732.2	733.6	735.0	736.3	737.7	739.1
42.5°	769.3	740.4	711.4	682.5	686.7	690.8	695.0	699.2	703.3	707.5	711.7
45°	731.1	699.0	666.8	634.6	641.8	649.0	656.1	663.3	670.5	677.7	684.8
47.5°	693.3	658.1	622.9	587.7	597.8	607.8	617.9	628.0	638.0	648.1	658.2
50°	656.1	617.7	579.2	540.8	553.8	566.7	579.7	592.7	605.6	618.6	631.6
52.5°	619.3	577.5	535.7	493.9	510.0	526.1	542.2	558.3	574.3	590.4	606.5
55°	584.6	539.4	494.3	449.1	468.1	487.1	506.1	525.1	544.0	563.0	582.0
57.5°	550.5	502.1	453.7	405.3	427.3	449.3	471.3	493.3	515.3	537.3	559.3
60°	518.2	466.3	414.5	362.6	387.5	412.4	437.3	462.2	487.0	511.9	536.8
62.5°	488.3	433.2	378.1	323.0	350.7	378.3	406.0	433.7	461.3	489.0	516.7
65°	457.8	399.6	341.5	283.4	313.4	343.4	373.4	403.4	433.3	463.3	493.3
67.5°	427.2	366.5	305.7	244.9	277.1	309.3	341.4	373.6	405.8	438.0	470.1
70°	394.9	331.7	268.5	205.3	239.7	274.1	308.4	342.8	377.2	411.6	445.9
72.5°	367.1	302.8	238.4	174.0	209.2	244.4	279.6	314.8	350.0	385.2	420.4
75°	335.9	270.8	205.8	140.7	176.9	213.2	249.4	285.6	321.9	358.1	394.3
77.5°	305.3	240.4	175.4	110.5	147.0	183.4	219.9	256.4	292.8	329.3	365.8
80°	274.4	210.3	146.3	82.3	118.4	154.5	190.7	226.8	262.9	299.0	335.2
82.5°	242.8	180.2	117.7	55.2	90.7	126.3	161.8	197.4	232.9	268.5	304.0
85°	214.3	153.9	93.6	33.3	67.8	102.3	136.8	171.3	205.9	240.4	274.9
87.5°	185.5	127.8	70.2	12.5	45.7	79.0	112.2	145.4	178.7	211.9	245.1
90°	162.2	108.1	54.1	0.0	31.3	62.5	93.8	125.0	156.3	187.5	218.8
92.5°	150.4	100.3	50.1	0.0	29.1	58.1	87.2	116.2	145.3	174.3	203.4
95°	139.3	92.8	46.4	0.0	26.7	53.5	80.2	107.0	133.7	160.5	187.2
97.5°	128.2	85.4	42.7	0.0	24.7	49.3	74.0	98.6	123.3	147.9	172.6
100°	117.7	78.5	39.2	0.0	22.7	45.4	68.1	90.8	113.4	136.1	158.8
102.5°	107.3	71.6	35.8	0.0	20.8	41.7	62.5	83.4	104.2	125.1	145.9
105°	97.6	65.1	32.5	0.0	19.1	38.2	57.3	76.4	95.5	114.6	133.7
107.5°	88.9	59.3	29.6	0.0	17.5	35.0	52.4	69.9	87.4	104.9	122.3
110°	79.9	53.3	26.6	0.0	16.0	32.0	47.9	63.9	79.9	95.9	111.8



TEST NUMBER: P201350

CATALOG NUMBER: 4LBLED-LD4-9-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°	71.9	47.9	24.0	0.0	14.4	28.7	43.1	57.4	71.8	86.1	100.5
115°	65.6	43.8	21.9	0.0	12.9	25.7	38.6	51.4	64.3	77.1	90.0
117.5°	59.4	39.6	19.8	0.0	11.5	22.9	34.4	45.9	57.3	68.8	80.3
120°	53.5	35.7	17.8	0.0	10.3	20.6	30.9	41.2	51.5	61.8	72.1
122.5°	48.3	32.2	16.1	0.0	9.1	18.3	27.4	36.6	45.7	54.9	64.0
125°	42.7	28.5	14.2	0.0	8.1	16.2	24.3	32.4	40.5	48.6	56.7
127.5°	37.9	25.2	12.6	0.0	6.8	13.7	20.5	27.3	34.2	41.0	47.8
130°	33.0	22.0	11.0	0.0	5.8	11.6	17.4	23.2	28.9	34.7	40.5
132.5°	28.1	18.8	9.4	0.0	4.7	9.5	14.2	19.0	23.7	28.5	33.2
135°	23.6	15.8	7.9	0.0	3.7	7.4	11.1	14.8	18.5	22.2	25.9
137.5°	18.8	12.5	6.3	0.0	2.9	5.8	8.7	11.6	14.4	17.3	20.2
140°	14.2	9.5	4.7	0.0	2.0	3.9	5.9	7.9	9.8	11.8	13.8
142.5°	10.8	7.2	3.6	0.0	1.3	2.6	3.8	5.1	6.4	7.7	8.9
145°	7.6	5.1	2.5	0.0	0.8	1.6	2.4	3.2	4.1	4.9	5.7
147.5°	5.2	3.5	1.7	0.0	0.5	0.9	1.4	1.9	2.3	2.8	3.3
150°	3.5	2.3	1.2	0.0	0.3	0.7	1.0	1.4	1.7	2.1	2.4
152.5°	2.1	1.4	0.7	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6
155°	1.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.7	0.5	0.2	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: P201350

CATALOG NUMBER: 4LBLED-LD4-9-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°	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8
2.5°	1149.0	1146.2	1145.6	1145.0	1144.5	1143.9	1143.3	1142.7	1142.2	1141.6	1141.0
5°	1136.3	1132.6	1131.3	1130.1	1128.8	1127.5	1126.3	1125.0	1123.7	1122.5	1121.2
7.5°	1119.5	1114.9	1113.2	1111.4	1109.7	1108.0	1106.2	1104.5	1102.8	1101.0	1099.3
10°	1100.4	1095.1	1093.1	1091.2	1089.2	1087.2	1085.3	1083.3	1081.3	1079.4	1077.4
12.5°	1078.1	1072.2	1070.2	1068.3	1066.3	1064.3	1062.4	1060.4	1058.4	1056.5	1054.5
15°	1054.3	1048.2	1046.4	1044.5	1042.7	1040.8	1039.0	1037.1	1035.3	1033.4	1031.6
17.5°	1027.6	1021.1	1019.9	1018.8	1017.6	1016.5	1015.3	1014.2	1013.0	1011.9	1010.7
20°	998.7	992.0	991.9	991.8	991.6	991.5	991.4	991.3	991.1	991.0	990.9
22.5°	967.3	960.7	962.6	964.4	966.3	968.1	970.0	971.8	973.7	975.5	977.4
25°	935.7	929.4	934.0	938.7	943.3	947.9	952.6	957.2	961.8	966.5	971.1
27.5°	901.9	896.1	904.3	912.5	920.8	929.0	937.2	945.4	953.7	961.9	970.1
30°	866.8	861.7	873.5	885.3	897.1	908.9	920.8	932.6	944.4	956.2	968.0
32.5°	832.4	828.4	843.7	859.0	874.2	889.5	904.8	920.1	935.3	950.6	965.9
35°	798.9	796.1	814.7	833.4	852.0	870.6	889.3	907.9	926.5	945.2	963.8
37.5°	768.8	767.9	789.6	811.2	832.9	854.5	876.2	897.8	919.5	941.1	962.8
40°	740.5	741.9	766.7	791.5	816.2	841.0	865.8	890.6	915.3	940.1	964.9
42.5°	715.8	720.0	747.7	775.3	803.0	830.7	858.3	886.0	913.7	941.3	969.0
45°	692.0	699.2	730.1	761.0	791.9	822.8	853.8	884.7	915.6	946.5	977.4
47.5°	668.2	678.3	712.8	747.3	781.8	816.3	850.8	885.3	919.8	954.3	988.8
50°	644.5	657.5	696.2	734.8	773.5	812.2	850.8	889.5	928.2	966.8	1005.5
52.5°	622.6	638.7	681.5	724.4	767.2	810.1	852.9	895.8	938.6	981.5	1024.3
55°	601.0	620.0	667.7	715.4	763.1	810.8	858.5	906.2	953.9	1001.6	1049.3
57.5°	581.3	603.3	656.1	708.9	761.7	814.5	867.3	920.1	972.9	1025.7	1078.5
60°	561.7	586.6	645.0	703.3	761.7	820.0	878.4	936.7	995.1	1053.4	1111.8
62.5°	544.3	572.0	635.7	699.4	763.0	826.7	890.4	954.1	1017.7	1081.4	1145.1
65°	523.3	553.3	622.4	691.5	760.7	829.8	898.9	968.0	1037.2	1106.3	1175.4
67.5°	502.3	534.5	607.9	681.3	754.7	828.1	901.6	975.0	1048.4	1121.8	1195.2
70°	480.3	514.7	591.2	667.8	744.3	820.8	897.4	973.9	1050.4	1127.0	1203.5
72.5°	455.6	490.8	568.8	646.9	724.9	802.9	881.0	959.0	1037.0	1115.1	1193.1
75°	430.6	466.8	544.0	621.2	698.5	775.7	852.9	930.1	1007.4	1084.6	1161.8
77.5°	402.2	438.7	513.1	587.6	662.0	736.5	810.9	885.4	959.8	1034.3	1108.7
80°	371.3	407.4	477.7	548.0	618.2	688.5	758.8	829.1	899.3	969.6	1039.9
82.5°	339.6	375.1	440.2	505.2	570.3	635.4	700.4	765.5	830.6	895.6	960.7
85°	309.4	343.9	402.9	462.0	521.0	580.1	639.1	698.2	757.2	816.3	875.3
87.5°	278.4	311.6	364.9	418.1	471.4	524.6	577.9	631.1	684.4	737.6	790.9
90°	250.0	281.3	329.2	377.2	425.1	473.0	521.0	568.9	616.8	664.8	712.7
92.5°	232.4	261.5	304.7	347.9	391.1	434.3	477.4	520.6	563.8	607.0	650.2
95°	214.0	240.7	280.6	320.6	360.5	400.5	440.4	480.4	520.3	560.3	600.2
97.5°	197.2	221.9	259.1	296.2	333.4	370.6	407.7	444.9	482.1	519.2	556.4
100°	181.5	204.2	239.2	274.1	309.1	344.1	379.0	414.0	449.0	483.9	518.9
102.5°	166.8	187.6	220.8	254.0	287.3	320.5	353.7	386.9	420.2	453.4	486.6
105°	152.8	171.9	203.7	235.6	267.4	299.3	331.1	363.0	394.8	426.7	458.5
107.5°	139.8	157.3	187.9	218.4	249.0	279.6	310.1	340.7	371.3	401.8	432.4
110°	127.8	143.8	173.1	202.4	231.7	261.0	290.2	319.5	348.8	378.1	407.4



TEST NUMBER: P201350

CATALOG NUMBER: 4LBLED-LD4-9-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°	114.8	129.2	157.5	185.7	214.0	242.2	270.5	298.7	327.0	355.2	383.5
115°	102.8	115.7	142.6	169.4	196.3	223.1	250.0	276.8	303.7	330.5	357.4
117.5°	91.7	103.2	128.8	154.4	179.9	205.5	231.1	256.7	282.2	307.8	333.4
120°	82.4	92.7	116.7	140.6	164.6	188.6	212.5	236.5	260.5	284.4	308.4
122.5°	73.2	82.3	104.5	126.8	149.0	171.2	193.5	215.7	237.9	260.2	282.4
125°	64.8	72.9	93.4	113.9	134.4	154.9	175.4	195.9	216.4	236.9	257.4
127.5°	54.7	61.5	79.9	98.3	116.7	135.1	153.6	172.0	190.4	208.8	227.2
130°	46.3	52.1	68.0	83.8	99.7	115.6	131.4	147.3	163.2	179.0	194.9
132.5°	38.0	42.7	55.9	69.1	82.3	95.5	108.7	121.9	135.1	148.3	161.5
135°	29.6	33.3	44.9	56.5	68.0	79.6	91.2	102.8	114.3	125.9	137.5
137.5°	23.1	26.0	36.0	45.9	55.9	65.9	75.8	85.8	95.8	105.7	115.7
140°	15.7	17.7	26.5	35.3	44.1	52.9	61.7	70.5	79.3	88.1	96.9
142.5°	10.2	11.5	18.9	26.3	33.7	41.1	48.5	55.9	63.3	70.7	78.1
145°	6.5	7.3	13.4	19.6	25.7	31.8	38.0	44.1	50.2	56.4	62.5
147.5°	3.7	4.2	9.2	14.2	19.1	24.1	29.1	34.1	39.0	44.0	49.0
150°	2.8	3.1	6.8	10.5	14.2	17.9	21.7	25.4	29.1	32.8	36.5
152.5°	1.9	2.1	4.8	7.4	10.1	12.7	15.4	18.0	20.7	23.3	26.0
155°	0.0	0.0	1.7	3.5	5.2	6.9	8.7	10.4	12.1	13.9	15.6
157.5°	0.0	0.0	0.8	1.6	2.4	3.2	4.1	4.9	5.7	6.5	7.3
160°	0.0	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1
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: P201350

CATALOG NUMBER: 4LBLED-LD4-9-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°	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8
2.5°	1140.0	1138.9	1137.9	1136.8	1135.8	1134.7	1133.7	1132.6	1131.6	1130.3	1129.0
5°	1119.7	1118.2	1116.7	1115.2	1113.6	1112.1	1110.6	1109.1	1107.6	1107.0	1106.4
7.5°	1097.8	1096.3	1094.8	1093.3	1091.7	1090.2	1088.7	1087.2	1085.7	1085.2	1084.8
10°	1076.0	1074.6	1073.2	1071.8	1070.5	1069.1	1067.7	1066.3	1064.9	1064.4	1064.0
12.5°	1053.6	1052.7	1051.7	1050.8	1049.9	1049.0	1048.0	1047.1	1046.2	1046.0	1045.7
15°	1031.5	1031.4	1031.2	1031.1	1031.0	1030.9	1030.7	1030.6	1030.5	1030.7	1031.0
17.5°	1012.0	1013.3	1014.5	1015.8	1017.1	1018.4	1019.6	1020.9	1022.2	1023.5	1024.7
20°	995.0	999.0	1003.1	1007.1	1011.2	1015.2	1019.3	1023.3	1027.4	1029.6	1031.8
22.5°	984.0	990.6	997.2	1003.8	1010.4	1017.0	1023.6	1030.2	1036.8	1039.5	1042.1
25°	979.4	987.8	996.1	1004.5	1012.8	1021.2	1029.5	1037.9	1046.2	1049.2	1052.2
27.5°	979.6	989.1	998.6	1008.1	1017.5	1027.0	1036.5	1046.0	1055.5	1059.1	1062.7
30°	978.8	989.5	1000.3	1011.1	1021.8	1032.6	1043.4	1054.1	1064.9	1069.4	1073.9
32.5°	978.4	990.9	1003.4	1015.9	1028.5	1041.0	1053.5	1066.0	1078.5	1083.9	1089.4
35°	978.4	993.0	1007.6	1022.2	1036.7	1051.3	1065.9	1080.5	1095.1	1101.6	1108.1
37.5°	979.9	997.1	1014.2	1031.3	1048.5	1065.6	1082.7	1099.9	1117.0	1124.9	1132.8
40°	984.8	1004.7	1024.6	1044.5	1064.5	1084.4	1104.3	1124.2	1144.1	1153.6	1163.1
42.5°	992.3	1015.6	1038.8	1062.1	1085.4	1108.7	1131.9	1155.2	1178.5	1189.6	1200.7
45°	1004.6	1031.8	1059.0	1086.2	1113.4	1140.6	1167.8	1195.0	1222.2	1235.1	1247.9
47.5°	1020.4	1052.0	1083.6	1115.2	1146.9	1178.5	1210.1	1241.7	1273.3	1288.1	1302.9
50°	1041.9	1078.2	1114.6	1150.9	1187.3	1223.6	1260.0	1296.3	1332.7	1349.6	1366.5
52.5°	1066.0	1107.7	1149.3	1191.0	1232.7	1274.4	1316.0	1357.7	1399.4	1418.4	1437.4
55°	1096.5	1143.8	1191.0	1238.2	1285.5	1332.7	1379.9	1427.2	1474.4	1495.2	1516.1
57.5°	1130.9	1183.4	1235.8	1288.3	1340.7	1393.2	1445.6	1498.1	1550.5	1572.6	1594.7
60°	1169.0	1226.2	1283.4	1340.6	1397.7	1454.9	1512.1	1569.3	1626.5	1649.1	1671.7
62.5°	1205.4	1265.7	1326.1	1386.4	1446.7	1507.0	1567.4	1627.7	1688.0	1711.4	1734.8
65°	1239.0	1302.5	1366.1	1429.6	1493.2	1556.7	1620.3	1683.8	1747.4	1769.6	1791.9
67.5°	1260.1	1325.1	1390.0	1455.0	1519.9	1584.9	1649.8	1714.8	1779.7	1800.9	1822.1
70°	1268.1	1332.7	1397.3	1461.9	1526.5	1591.1	1655.7	1720.3	1784.9	1804.9	1825.0
72.5°	1256.1	1319.1	1382.0	1445.0	1508.0	1571.0	1633.9	1696.9	1759.9	1778.8	1797.7
75°	1221.8	1281.8	1341.7	1401.7	1461.7	1521.7	1581.6	1641.6	1701.6	1717.9	1734.2
77.5°	1164.4	1220.1	1275.8	1331.5	1387.1	1442.8	1498.5	1554.2	1609.9	1624.6	1639.3
80°	1090.3	1140.6	1191.0	1241.4	1291.7	1342.1	1392.5	1442.8	1493.2	1507.9	1522.6
82.5°	1005.6	1050.5	1095.5	1140.4	1185.3	1230.2	1275.2	1320.1	1365.0	1376.7	1388.4
85°	915.0	954.7	994.4	1034.1	1073.9	1113.6	1153.3	1193.0	1232.7	1243.2	1253.8
87.5°	825.5	860.1	894.7	929.3	964.0	998.6	1033.2	1067.8	1102.4	1112.0	1121.6
90°	743.2	773.6	804.1	834.5	865.0	895.4	925.9	956.3	986.8	995.8	1004.8
92.5°	677.9	705.5	733.2	760.9	788.5	816.2	843.9	871.5	899.2	907.3	915.4
95°	625.3	650.4	675.6	700.7	725.8	750.9	776.1	801.2	826.3	834.3	842.3
97.5°	580.3	604.1	628.0	651.8	675.7	699.5	723.4	747.2	771.1	778.5	785.9
100°	541.8	564.7	587.7	610.6	633.5	656.4	679.4	702.3	725.2	732.6	740.0
102.5°	508.9	531.3	553.6	576.0	598.3	620.7	643.0	665.4	687.7	695.0	702.3
105°	480.6	502.7	524.8	546.9	569.1	591.2	613.3	635.4	657.5	664.7	671.9
107.5°	454.2	475.9	497.7	519.5	541.2	563.0	584.8	606.5	628.3	635.9	643.6
110°	429.2	450.9	472.7	494.5	516.2	538.0	559.8	581.5	603.3	610.9	618.6





TEST NUMBER: P201350

CATALOG NUMBER: 4LBLED-LD4-9-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°	405.3	427.0	448.8	470.5	492.3	514.0	535.8	557.5	579.3	587.1	594.8
115°	379.2	400.9	422.7	444.5	466.2	488.0	509.8	531.5	553.3	561.3	569.3
117.5°	354.8	376.2	397.7	419.1	440.5	461.9	483.4	504.8	526.2	534.3	542.4
120°	329.2	350.1	370.9	391.8	412.6	433.5	454.3	475.2	496.0	504.3	512.7
122.5°	302.4	322.4	342.5	362.5	382.5	402.5	422.6	442.6	462.6	470.9	479.3
125°	276.2	294.9	313.7	332.4	351.2	369.9	388.7	407.4	426.2	434.3	442.4
127.5°	245.1	263.1	281.0	299.0	316.9	334.9	352.8	370.8	388.7	396.8	404.9
130°	212.3	229.6	247.0	264.3	281.7	299.0	316.4	333.7	351.1	358.5	365.9
132.5°	178.4	195.3	212.2	229.1	246.0	262.9	279.8	296.7	313.6	320.4	327.3
135°	153.0	168.5	184.1	199.6	215.1	230.6	246.2	261.7	277.2	283.4	289.7
137.5°	128.5	141.4	154.2	167.1	179.9	192.8	205.6	218.5	231.3	238.1	245.0
140°	107.2	117.5	127.8	138.1	148.4	158.7	169.0	179.3	189.6	196.1	202.6
142.5°	87.0	95.9	104.9	113.8	122.7	131.6	140.6	149.5	158.4	163.7	169.0
145°	70.0	77.5	85.1	92.6	100.1	107.6	115.2	122.7	130.2	135.3	140.4
147.5°	55.1	61.3	67.4	73.5	79.7	85.8	91.9	98.1	104.2	109.2	114.2
150°	41.7	46.9	52.1	57.3	62.6	67.8	73.0	78.2	83.4	87.9	92.4
152.5°	30.1	34.1	38.2	42.2	46.3	50.3	54.4	58.4	62.5	66.7	70.8
155°	19.0	22.3	25.7	29.0	32.4	35.7	39.1	42.4	45.8	49.5	53.2
157.5°	10.0	12.6	15.3	18.0	20.6	23.3	26.0	28.6	31.3	34.5	37.8
160°	3.8	5.6	7.3	9.0	10.8	12.5	14.2	16.0	17.7	20.6	23.5
162.5°	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	8.6	10.9
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0
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: P201350

CATALOG NUMBER: 4LBLEDD4-9-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°	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8
2.5°	1127.8	1126.5	1125.2	1123.9	1122.7	1121.4	1120.1	1121.3	1122.4	1123.6	1124.8
5°	1105.9	1105.3	1104.7	1104.1	1103.6	1103.0	1102.4	1102.7	1103.1	1103.4	1103.8
7.5°	1084.3	1083.9	1083.4	1083.0	1082.5	1082.1	1081.6	1082.1	1082.5	1083.0	1083.4
10°	1063.5	1063.0	1062.6	1062.1	1061.6	1061.2	1060.7	1060.9	1061.2	1061.4	1061.6
12.5°	1045.5	1045.3	1045.0	1044.8	1044.6	1044.3	1044.1	1044.0	1043.9	1043.7	1043.6
15°	1031.2	1031.4	1031.7	1031.9	1032.1	1032.4	1032.6	1032.4	1032.1	1031.9	1031.7
17.5°	1026.0	1027.3	1028.5	1029.8	1031.1	1032.3	1033.6	1032.4	1031.3	1030.1	1029.0
20°	1034.0	1036.2	1038.4	1040.6	1042.8	1045.0	1047.2	1044.8	1042.3	1039.9	1037.5
22.5°	1044.8	1047.4	1050.1	1052.7	1055.4	1058.0	1060.7	1057.5	1054.2	1051.0	1047.8
25°	1055.2	1058.2	1061.2	1064.2	1067.2	1070.2	1073.2	1069.7	1066.3	1062.8	1059.3
27.5°	1066.3	1069.9	1073.4	1077.0	1080.6	1084.2	1087.8	1083.9	1079.9	1076.0	1072.1
30°	1078.4	1082.9	1087.5	1092.0	1096.5	1101.0	1105.5	1100.8	1096.0	1091.3	1086.5
32.5°	1094.8	1100.2	1105.7	1111.1	1116.5	1122.0	1127.4	1121.8	1116.3	1110.7	1105.2
35°	1114.6	1121.1	1127.5	1134.0	1140.5	1147.0	1153.5	1146.9	1140.3	1133.7	1127.1
37.5°	1140.6	1148.5	1156.4	1164.3	1172.1	1180.0	1187.9	1180.1	1172.4	1164.6	1156.8
40°	1172.6	1182.1	1191.5	1201.0	1210.5	1220.0	1229.5	1220.4	1211.2	1202.1	1192.9
42.5°	1211.8	1222.9	1234.1	1245.2	1256.3	1267.4	1278.5	1268.0	1257.4	1246.9	1236.4
45°	1260.8	1273.6	1286.5	1299.3	1312.2	1325.0	1337.9	1325.6	1313.4	1301.1	1288.8
47.5°	1317.8	1332.6	1347.4	1362.2	1377.1	1391.9	1406.7	1392.7	1378.7	1364.7	1350.7
50°	1383.4	1400.3	1417.2	1434.1	1451.0	1467.9	1484.8	1468.9	1453.1	1437.2	1421.4
52.5°	1456.4	1475.4	1494.3	1513.3	1532.3	1551.3	1570.3	1552.7	1535.1	1517.5	1499.9
55°	1536.9	1557.8	1578.6	1599.5	1620.3	1641.2	1662.0	1642.7	1623.3	1604.0	1584.7
57.5°	1616.8	1638.9	1661.1	1683.2	1705.3	1727.4	1749.5	1729.4	1709.2	1689.1	1668.9
60°	1694.2	1716.8	1739.4	1762.0	1784.5	1807.1	1829.7	1809.3	1788.9	1768.6	1748.2
62.5°	1758.2	1781.6	1804.9	1828.3	1851.7	1875.1	1898.5	1878.1	1857.7	1837.4	1817.0
65°	1814.1	1836.3	1858.6	1880.8	1903.0	1925.3	1947.5	1927.8	1908.1	1888.4	1868.7
67.5°	1843.3	1864.5	1885.6	1906.8	1928.0	1949.2	1970.4	1952.0	1933.6	1915.2	1896.8
70°	1845.0	1865.0	1885.1	1905.1	1925.1	1945.2	1965.2	1947.8	1930.5	1913.1	1895.7
72.5°	1816.5	1835.4	1854.3	1873.2	1892.0	1910.9	1929.8	1912.9	1896.0	1879.1	1862.2
75°	1750.6	1766.9	1783.2	1799.5	1815.9	1832.2	1848.5	1833.2	1817.9	1802.6	1787.3
77.5°	1654.0	1668.7	1683.4	1698.1	1712.8	1727.5	1742.2	1728.3	1714.4	1700.5	1686.6
80°	1537.3	1552.0	1566.7	1581.4	1596.1	1610.8	1625.5	1611.1	1596.8	1582.4	1568.1
82.5°	1400.1	1411.8	1423.4	1435.1	1446.8	1458.5	1470.2	1458.3	1446.4	1434.4	1422.5
85°	1264.3	1274.8	1285.4	1295.9	1306.4	1317.0	1327.5	1316.5	1305.5	1294.5	1283.5
87.5°	1131.2	1140.8	1150.5	1160.1	1169.7	1179.3	1188.9	1178.6	1168.3	1158.0	1147.7
90°	1013.9	1022.9	1031.9	1040.9	1050.0	1059.0	1068.0	1058.5	1049.0	1039.5	1030.0
92.5°	923.5	931.6	939.8	947.9	956.0	964.1	972.2	963.5	954.8	946.1	937.4
95°	850.3	858.3	866.2	874.2	882.2	890.2	898.2	890.2	882.2	874.2	866.2
97.5°	793.3	800.7	808.2	815.6	823.0	830.4	837.8	830.3	822.7	815.2	807.7
100°	747.4	754.8	762.3	769.7	777.1	784.5	791.9	784.5	777.1	769.7	762.3
102.5°	709.6	716.9	724.2	731.5	738.8	746.1	753.4	746.6	739.7	732.9	726.1
105°	679.0	686.2	693.4	700.6	707.7	714.9	722.1	715.3	708.4	701.6	694.8
107.5°	651.2	658.9	666.5	674.2	681.8	689.5	697.1	690.2	683.2	676.3	669.3
110°	626.2	633.9	641.5	649.2	656.8	664.5	672.1	665.2	658.2	651.3	644.3



TEST NUMBER: P201350

CATALOG NUMBER: 4LBLED-LD4-9-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°	602.6	610.4	618.1	625.9	633.7	641.4	649.2	642.0	634.8	627.7	620.5
115°	577.3	585.3	593.2	601.2	609.2	617.2	625.2	618.0	610.8	603.7	596.5
117.5°	550.5	558.6	566.7	574.8	582.9	591.0	599.1	591.8	584.5	577.2	569.9
120°	521.0	529.3	537.7	546.0	554.3	562.7	571.0	563.6	556.2	548.8	541.4
122.5°	487.6	496.0	504.3	512.7	521.0	529.4	537.7	530.3	522.9	515.5	508.1
125°	450.5	458.6	466.7	474.8	482.9	491.0	499.1	492.0	485.0	477.9	470.8
127.5°	413.0	421.1	429.2	437.3	445.4	453.5	461.6	454.5	447.5	440.4	433.3
130°	373.3	380.7	388.2	395.6	403.0	410.4	417.8	411.3	404.8	398.4	391.9
132.5°	334.1	340.9	347.8	354.6	361.4	368.3	375.1	369.2	363.3	357.4	351.5
135°	295.9	302.2	308.4	314.7	320.9	327.2	333.4	328.2	323.0	317.8	312.6
137.5°	251.8	258.6	265.5	272.3	279.1	286.0	292.8	287.7	282.6	277.5	272.4
140°	209.1	215.6	222.0	228.5	235.0	241.5	248.0	243.4	238.7	234.1	229.5
142.5°	174.4	179.7	185.0	190.3	195.7	201.0	206.3	203.3	200.3	197.3	194.3
145°	145.5	150.6	155.7	160.8	165.9	171.0	176.1	173.6	171.0	168.5	165.9
147.5°	119.1	124.1	129.1	134.1	139.0	144.0	149.0	146.9	144.8	142.7	140.6
150°	96.9	101.4	106.0	110.5	115.0	119.5	124.0	122.3	120.5	118.8	117.1
152.5°	75.0	79.2	83.3	87.5	91.7	95.8	100.0	98.6	97.2	95.8	94.4
155°	56.9	60.6	64.4	68.1	71.8	75.5	79.2	78.2	77.1	76.1	75.0
157.5°	41.0	44.2	47.5	50.7	53.9	57.2	60.4	59.6	58.8	58.0	57.2
160°	26.4	29.3	32.2	35.1	38.0	40.9	43.8	43.1	42.4	41.7	41.0
162.5°	13.2	15.5	17.9	20.2	22.5	24.8	27.1	26.6	26.2	25.7	25.2
165°	4.5	6.0	7.5	9.0	10.5	12.0	13.5	13.5	13.5	13.5	13.5
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: P201350

CATALOG NUMBER: 4LBLED-LD4-9-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°	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8
2.5°	1125.9	1127.1	1128.3	1129.4	1130.6	1132.3	1134.1	1135.8	1137.5	1139.3	1141.0
5°	1104.1	1104.5	1104.8	1105.2	1105.5	1107.7	1109.9	1112.1	1114.3	1116.5	1118.7
7.5°	1083.9	1084.3	1084.8	1085.2	1085.7	1087.9	1090.1	1092.3	1094.5	1096.7	1098.9
10°	1061.9	1062.1	1062.3	1062.6	1062.8	1065.2	1067.7	1070.1	1072.5	1075.0	1077.4
12.5°	1043.5	1043.4	1043.2	1043.1	1043.0	1045.3	1047.6	1050.0	1052.3	1054.6	1056.9
15°	1031.4	1031.2	1031.0	1030.7	1030.5	1031.7	1032.8	1034.0	1035.1	1036.3	1037.4
17.5°	1027.8	1026.7	1025.5	1024.4	1023.2	1022.9	1022.5	1022.2	1021.8	1021.5	1021.1
20°	1035.0	1032.6	1030.2	1027.7	1025.3	1022.5	1019.7	1017.0	1014.2	1011.4	1008.6
22.5°	1044.5	1041.3	1038.1	1034.8	1031.6	1026.4	1021.2	1016.0	1010.8	1005.5	1000.3
25°	1055.9	1052.4	1048.9	1045.5	1042.0	1034.9	1027.9	1020.8	1013.7	1006.7	999.6
27.5°	1068.1	1064.2	1060.3	1056.3	1052.4	1043.9	1035.5	1027.0	1018.6	1010.1	1001.7
30°	1081.8	1077.0	1072.3	1067.5	1062.8	1052.8	1042.9	1032.9	1023.0	1013.0	1003.1
32.5°	1099.6	1094.1	1088.5	1083.0	1077.4	1065.5	1053.6	1041.6	1029.7	1017.8	1005.9
35°	1120.5	1113.9	1107.3	1100.7	1094.1	1080.2	1066.3	1052.4	1038.5	1024.6	1010.7
37.5°	1149.1	1141.3	1133.5	1125.8	1118.0	1101.7	1085.4	1069.0	1052.7	1036.4	1020.1
40°	1183.8	1174.6	1165.5	1156.3	1147.2	1128.0	1108.8	1089.6	1070.4	1051.1	1031.9
42.5°	1225.8	1215.3	1204.8	1194.2	1183.7	1161.1	1138.5	1116.0	1093.4	1070.8	1048.2
45°	1276.6	1264.3	1252.0	1239.8	1227.5	1201.2	1174.9	1148.6	1122.3	1096.1	1069.8
47.5°	1336.6	1322.6	1308.6	1294.6	1280.6	1249.9	1219.2	1188.6	1157.9	1127.2	1096.5
50°	1405.5	1389.7	1373.8	1358.0	1342.1	1306.6	1271.0	1235.5	1199.9	1164.4	1128.8
52.5°	1482.3	1464.7	1447.1	1429.5	1411.9	1371.1	1330.4	1289.6	1248.9	1208.1	1167.4
55°	1565.3	1546.0	1526.7	1507.3	1488.0	1442.0	1396.1	1350.1	1304.1	1258.2	1212.2
57.5°	1648.8	1628.6	1608.5	1588.3	1568.2	1517.0	1465.8	1414.7	1363.5	1312.3	1261.1
60°	1727.8	1707.4	1687.1	1666.7	1646.3	1590.2	1534.0	1477.9	1421.7	1365.6	1309.4
62.5°	1796.6	1776.2	1755.9	1735.5	1715.1	1655.5	1595.9	1536.2	1476.6	1417.0	1357.4
65°	1849.1	1829.4	1809.7	1790.0	1770.3	1708.1	1646.0	1583.8	1521.6	1459.5	1397.3
67.5°	1878.3	1859.9	1841.5	1823.1	1804.7	1741.1	1677.6	1614.0	1550.5	1486.9	1423.4
70°	1878.4	1861.0	1843.6	1826.3	1808.9	1745.7	1682.5	1619.3	1556.1	1492.8	1429.6
72.5°	1845.2	1828.3	1811.4	1794.5	1777.6	1716.4	1655.1	1593.9	1532.6	1471.4	1410.1
75°	1772.1	1756.8	1741.5	1726.2	1710.9	1653.0	1595.1	1537.2	1479.3	1421.5	1363.6
77.5°	1672.8	1658.9	1645.0	1631.1	1617.2	1563.5	1509.8	1456.0	1402.3	1348.6	1294.9
80°	1553.7	1539.4	1525.0	1510.7	1496.3	1447.6	1398.8	1350.1	1301.3	1252.6	1203.8
82.5°	1410.6	1398.7	1386.7	1374.8	1362.9	1320.2	1277.5	1234.7	1192.0	1149.3	1106.6
85°	1272.5	1261.5	1250.5	1239.5	1228.5	1190.8	1153.0	1115.3	1077.5	1039.8	1002.0
87.5°	1137.4	1127.1	1116.8	1106.5	1096.2	1063.3	1030.4	997.5	964.6	931.8	898.9
90°	1020.6	1011.1	1001.6	992.1	982.6	953.5	924.5	895.4	866.4	837.3	808.3
92.5°	928.8	920.1	911.4	902.7	894.0	868.1	842.1	816.2	790.3	764.3	738.4
95°	858.3	850.3	842.3	834.3	826.3	802.2	778.1	754.1	730.0	705.9	681.8
97.5°	800.1	792.6	785.1	777.5	770.0	747.3	724.6	701.9	679.2	656.6	633.9
100°	754.8	747.4	740.0	732.6	725.2	703.3	681.4	659.6	637.7	615.8	593.9
102.5°	719.2	712.4	705.6	698.7	691.9	670.1	648.4	626.6	604.8	583.1	561.3
105°	687.9	681.1	674.3	667.4	660.6	639.3	618.0	596.7	575.4	554.1	532.8
107.5°	662.4	655.4	648.5	641.5	634.6	613.4	592.2	571.0	549.8	528.7	507.5
110°	637.4	630.4	623.5	616.5	609.6	588.5	567.4	546.4	525.3	504.2	483.1



TEST NUMBER: P201350

CATALOG NUMBER: 4LBLEDD4-9-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°	613.3	606.1	599.0	591.8	584.6	563.6	542.7	521.7	500.8	479.8	458.9
115°	589.3	582.1	575.0	567.8	560.6	539.6	518.7	497.7	476.8	455.8	434.9
117.5°	562.7	555.4	548.1	540.8	533.5	512.8	492.1	471.3	450.6	429.9	409.2
120°	533.9	526.5	519.1	511.7	504.3	483.9	463.5	443.2	422.8	402.4	382.0
122.5°	500.6	493.2	485.8	478.4	471.0	451.4	431.9	412.3	392.7	373.2	353.6
125°	463.8	456.7	449.6	442.6	435.5	417.0	398.5	379.9	361.4	342.9	324.4
127.5°	426.3	419.2	412.1	405.1	398.0	380.5	363.0	345.6	328.1	310.6	293.1
130°	385.4	378.9	372.5	366.0	359.5	343.3	327.1	310.9	294.7	278.4	262.2
132.5°	345.6	339.7	333.8	327.9	322.0	306.8	291.7	276.5	261.3	246.2	231.0
135°	307.3	302.1	296.9	291.7	286.5	273.0	259.4	245.9	232.3	218.8	205.2
137.5°	267.4	262.3	257.2	252.1	247.0	235.8	224.5	213.3	202.1	190.8	179.6
140°	224.8	220.2	215.6	210.9	206.3	197.5	188.7	179.9	171.1	162.3	153.5
142.5°	191.2	188.2	185.2	182.2	179.2	171.4	163.7	155.9	148.2	140.4	132.7
145°	163.4	160.8	158.3	155.7	153.2	146.5	139.8	133.0	126.3	119.6	112.9
147.5°	138.6	136.5	134.4	132.3	130.2	124.4	118.6	112.8	107.0	101.3	95.5
150°	115.3	113.6	111.9	110.1	108.4	103.5	98.7	93.8	88.9	84.1	79.2
152.5°	93.1	91.7	90.3	88.9	87.5	83.5	79.4	75.4	71.3	67.3	63.2
155°	74.0	72.9	71.9	70.8	69.8	66.3	62.9	59.4	55.9	52.5	49.0
157.5°	56.3	55.5	54.7	53.9	53.1	50.2	47.3	44.4	41.5	38.7	35.8
160°	40.3	39.6	38.9	38.2	37.5	35.3	33.1	30.9	28.7	26.5	24.3
162.5°	24.8	24.3	23.8	23.4	22.9	21.7	20.6	19.4	18.3	17.1	16.0
165°	13.5	13.5	13.5	13.5	13.5	12.9	12.3	11.8	11.2	10.6	10.0
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: P201350

CATALOG NUMBER: 4LBLED-LD4-9-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°	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8
2.5°	1142.7	1144.5	1146.2	1146.3	1146.4	1146.5	1146.6	1146.8	1146.9	1147.0	1147.1
5°	1120.9	1123.1	1125.3	1126.1	1126.9	1127.7	1128.5	1129.4	1130.2	1131.0	1131.8
7.5°	1101.1	1103.3	1105.5	1106.5	1107.6	1108.6	1109.7	1110.7	1111.8	1112.8	1113.9
10°	1079.8	1082.3	1084.7	1085.6	1086.5	1087.5	1088.4	1089.3	1090.2	1091.2	1092.1
12.5°	1059.3	1061.6	1063.9	1064.7	1065.5	1066.3	1067.1	1068.0	1068.8	1069.6	1070.4
15°	1038.6	1039.7	1040.9	1041.5	1042.1	1042.7	1043.3	1043.8	1044.4	1045.0	1045.6
17.5°	1020.8	1020.4	1020.1	1020.0	1019.9	1019.8	1019.7	1019.5	1019.4	1019.3	1019.2
20°	1005.9	1003.1	1000.3	999.1	998.0	996.8	995.7	994.5	993.4	992.2	991.1
22.5°	995.1	989.9	984.7	981.8	978.9	976.0	973.1	970.2	967.3	964.4	961.5
25°	992.5	985.5	978.4	972.7	967.1	961.4	955.7	950.1	944.4	938.7	933.1
27.5°	993.2	984.8	976.3	967.2	958.0	948.9	939.7	930.6	921.4	912.3	903.1
30°	993.1	983.2	973.2	960.7	948.2	935.7	923.2	910.7	898.2	885.7	873.2
32.5°	993.9	982.0	970.1	954.5	938.8	923.2	907.6	891.9	876.3	860.7	845.0
35°	996.8	982.9	969.0	950.0	931.0	912.1	893.1	874.1	855.1	836.2	817.2
37.5°	1003.7	987.4	971.1	948.8	926.4	904.1	881.7	859.4	837.0	814.7	792.3
40°	1012.7	993.5	974.3	948.9	923.6	898.2	872.9	847.5	822.2	796.8	771.5
42.5°	1025.7	1003.1	980.5	952.3	924.0	895.8	867.5	839.3	811.0	782.8	754.5
45°	1043.5	1017.2	990.9	959.3	927.7	896.1	864.5	832.9	801.3	769.7	738.1
47.5°	1065.9	1035.2	1004.5	969.2	933.9	898.6	863.3	827.9	792.6	757.3	722.0
50°	1093.3	1057.7	1022.2	982.8	943.5	904.1	864.7	825.4	786.0	746.6	707.3
52.5°	1126.6	1085.9	1045.1	1001.2	957.3	913.5	869.6	825.7	781.8	738.0	694.1
55°	1166.2	1120.3	1074.3	1025.4	976.6	927.7	878.9	830.0	781.2	732.3	683.5
57.5°	1210.0	1158.8	1107.6	1053.3	999.0	944.7	890.4	836.1	781.8	727.5	673.2
60°	1253.3	1197.1	1141.0	1081.5	1022.0	962.5	903.0	843.4	783.9	724.4	664.9
62.5°	1297.7	1238.1	1178.5	1113.3	1048.1	982.9	917.7	852.6	787.4	722.2	657.0
65°	1335.1	1273.0	1210.8	1140.3	1069.8	999.3	928.8	858.2	787.7	717.2	646.7
67.5°	1359.8	1296.3	1232.7	1157.8	1082.9	1008.0	933.1	858.1	783.2	708.3	633.4
70°	1366.4	1303.2	1240.0	1162.2	1084.4	1006.6	928.8	850.9	773.1	695.3	617.5
72.5°	1348.9	1287.6	1226.4	1147.4	1068.5	989.5	910.6	831.6	752.7	673.7	594.8
75°	1305.7	1247.8	1189.9	1112.0	1034.1	956.2	878.3	800.3	722.4	644.5	566.6
77.5°	1241.1	1187.4	1133.7	1058.8	983.9	909.0	834.1	759.1	684.2	609.3	534.4
80°	1155.1	1106.3	1057.6	987.6	917.5	847.5	777.4	707.4	637.3	567.3	497.2
82.5°	1063.8	1021.1	978.4	913.3	848.3	783.2	718.1	653.1	588.0	522.9	457.9
85°	964.3	926.5	888.8	830.0	771.2	712.4	653.6	594.7	535.9	477.1	418.3
87.5°	866.0	833.1	800.2	747.6	695.1	642.5	590.0	537.4	484.9	432.3	379.8
90°	779.2	750.2	721.1	674.0	626.9	579.7	532.6	485.5	438.4	391.2	344.1
92.5°	712.5	686.5	660.6	617.9	575.2	532.4	489.7	447.0	404.3	361.5	318.8
95°	657.8	633.7	609.6	570.3	531.1	491.8	452.6	413.3	374.1	334.8	295.6
97.5°	611.2	588.5	565.8	529.2	492.6	456.0	419.4	382.9	346.3	309.7	273.1
100°	572.1	550.2	528.3	493.7	459.1	424.4	389.8	355.2	320.6	285.9	251.3
102.5°	539.5	517.8	496.0	463.0	430.0	397.0	364.0	331.0	298.0	265.0	232.0
105°	511.5	490.2	468.9	437.2	405.5	373.7	342.0	310.3	278.6	246.8	215.1
107.5°	486.3	465.1	443.9	413.2	382.5	351.9	321.2	290.5	259.8	229.2	198.5
110°	462.1	441.0	419.9	390.3	360.6	331.0	301.4	271.7	242.1	212.5	182.8



TEST NUMBER: P201350

CATALOG NUMBER: 4LBLED-LD4-9-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°	437.9	417.0	396.0	367.5	339.0	310.5	282.0	253.6	225.1	196.6	168.1
115°	413.9	393.0	372.0	344.7	317.4	290.0	262.7	235.4	208.1	180.7	153.4
117.5°	388.4	367.7	347.0	321.1	295.1	269.2	243.3	217.3	191.4	165.5	139.5
120°	361.7	341.3	320.9	296.7	272.5	248.3	224.1	200.0	175.8	151.6	127.4
122.5°	334.0	314.5	294.9	272.6	250.2	227.9	205.5	183.2	160.8	138.5	116.1
125°	305.8	287.3	268.8	248.3	227.8	207.3	186.8	166.4	145.9	125.4	104.9
127.5°	275.7	258.2	240.7	222.3	203.9	185.5	167.1	148.6	130.2	111.8	93.4
130°	246.0	229.8	213.6	197.3	181.0	164.6	148.3	132.0	115.7	99.3	83.0
132.5°	215.8	200.7	185.5	171.4	157.3	143.1	129.0	114.9	100.8	86.6	72.5
135°	191.7	178.1	164.6	151.9	139.1	126.4	113.7	100.9	88.2	75.5	62.7
137.5°	168.4	157.1	145.9	134.4	123.0	111.5	100.0	88.6	77.1	65.6	54.2
140°	144.7	135.9	127.1	116.8	106.5	96.2	85.9	75.6	65.3	55.0	44.7
142.5°	124.9	117.2	109.4	100.3	91.1	82.0	72.8	63.7	54.5	45.4	36.2
145°	106.1	99.4	92.7	84.7	76.7	68.7	60.7	52.8	44.8	36.8	28.8
147.5°	89.7	83.9	78.1	71.3	64.5	57.6	50.8	44.0	37.2	30.3	23.5
150°	74.3	69.5	64.6	59.0	53.5	47.9	42.4	36.8	31.3	25.7	20.2
152.5°	59.2	55.1	51.1	46.8	42.5	38.2	33.9	29.7	25.4	21.1	16.8
155°	45.5	42.1	38.6	35.4	32.1	28.9	25.6	22.4	19.1	15.9	12.6
157.5°	32.9	30.0	27.1	24.9	22.7	20.5	18.3	16.1	13.9	11.7	9.5
160°	22.1	19.9	17.7	16.3	14.9	13.5	12.1	10.8	9.4	8.0	6.6
162.5°	14.8	13.7	12.5	11.6	10.7	9.7	8.8	7.9	7.0	6.0	5.1
165°	9.5	8.9	8.3	7.7	7.1	6.6	6.0	5.4	4.8	4.3	3.7
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: P201350

CATALOG NUMBER: 4LBLED-LD4-9-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°	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8
2.5°	1147.2	1150.6	1153.9	1157.3	1160.6	1164.0	1167.3	1170.7	1174.0	1177.4	1177.4
5°	1132.6	1136.9	1141.2	1145.5	1149.8	1154.0	1158.3	1162.6	1166.9	1171.2	1172.4
7.5°	1114.9	1120.1	1125.3	1130.5	1135.7	1141.0	1146.2	1151.4	1156.6	1161.8	1164.2
10°	1093.0	1099.0	1105.0	1111.1	1117.1	1123.1	1129.1	1135.2	1141.2	1147.2	1151.0
12.5°	1071.2	1077.7	1084.2	1090.6	1097.1	1103.6	1110.1	1116.5	1123.0	1129.5	1134.6
15°	1046.2	1053.0	1059.8	1066.7	1073.5	1080.3	1087.1	1094.0	1100.8	1107.6	1114.2
17.5°	1019.1	1026.2	1033.2	1040.3	1047.3	1054.4	1061.4	1068.5	1075.5	1082.6	1090.6
20°	989.9	997.1	1004.3	1011.4	1018.6	1025.8	1033.0	1040.1	1047.3	1054.5	1064.0
22.5°	958.6	965.5	972.5	979.4	986.4	993.3	1000.3	1007.2	1014.2	1021.1	1032.2
25°	927.4	934.0	940.6	947.2	953.8	960.4	967.0	973.6	980.2	986.8	999.5
27.5°	894.0	900.3	906.5	912.8	919.0	925.3	931.5	937.8	944.0	950.3	964.7
30°	860.7	866.0	871.3	876.7	882.0	887.3	892.6	898.0	903.3	908.6	924.8
32.5°	829.4	833.5	837.5	841.6	845.6	849.7	853.7	857.8	861.8	865.9	884.1
35°	798.2	800.9	803.5	806.2	808.8	811.5	814.1	816.8	819.4	822.1	842.1
37.5°	770.0	770.7	771.4	772.1	772.8	773.5	774.2	774.9	775.6	776.3	799.1
40°	746.1	744.4	742.6	740.9	739.1	737.4	735.6	733.9	732.1	730.4	756.0
42.5°	726.3	721.4	716.6	711.7	706.8	702.0	697.1	692.2	687.4	682.5	711.0
45°	706.5	698.5	690.5	682.5	674.5	666.6	658.6	650.6	642.6	634.6	666.4
47.5°	686.7	675.8	664.9	654.0	643.1	632.3	621.4	610.5	599.6	588.7	623.4
50°	667.9	653.9	639.9	625.9	611.9	597.8	583.8	569.8	555.8	541.8	579.7
52.5°	650.2	632.9	615.7	598.4	581.2	563.9	546.7	529.4	512.2	494.9	536.0
55°	634.6	614.2	593.8	573.5	553.1	532.7	512.3	492.0	471.6	451.2	495.4
57.5°	618.9	595.4	571.9	548.4	524.9	501.4	477.9	454.4	430.9	407.4	454.9
60°	605.4	578.7	551.9	525.2	498.4	471.7	444.9	418.2	391.4	364.7	415.5
62.5°	591.8	562.1	532.3	502.6	472.8	443.1	413.3	383.6	353.8	324.1	378.2
65°	576.2	543.8	511.4	479.0	446.6	414.1	381.7	349.3	316.9	284.5	341.6
67.5°	558.5	523.5	488.6	453.6	418.6	383.7	348.7	313.7	278.8	243.8	303.7
70°	539.7	502.8	465.9	428.9	392.0	355.1	318.2	281.2	244.3	207.4	269.3
72.5°	515.8	478.1	440.3	402.6	364.8	327.1	289.3	251.6	213.8	176.1	239.1
75°	488.7	450.4	412.1	373.7	335.4	297.1	258.8	220.4	182.1	143.8	207.5
77.5°	459.5	420.9	382.4	343.8	305.3	266.7	228.2	189.6	151.1	112.5	176.1
80°	427.2	389.1	351.0	312.9	274.8	236.8	198.7	160.6	122.5	84.4	147.0
82.5°	392.8	355.6	318.5	281.3	244.2	207.0	169.9	132.7	95.6	58.4	119.3
85°	359.5	323.5	287.5	251.5	215.5	179.4	143.4	107.4	71.4	35.4	94.0
87.5°	327.2	292.5	257.7	223.0	188.3	153.5	118.8	84.1	49.3	14.6	70.4
90°	297.0	264.1	231.2	198.3	165.4	132.6	99.7	66.8	33.9	1.0	53.2
92.5°	276.1	245.4	214.7	184.1	153.4	122.7	92.0	61.4	30.7	0.0	48.5
95°	256.3	227.8	199.3	170.9	142.4	113.9	85.4	57.0	28.5	0.0	44.7
97.5°	236.5	210.3	184.2	158.0	131.8	105.7	79.5	53.3	27.2	1.0	42.0
100°	216.7	192.7	168.8	144.8	120.8	96.9	72.9	48.9	25.0	1.0	38.5
102.5°	199.0	177.0	155.0	133.0	111.0	89.0	67.0	45.0	23.0	1.0	35.2
105°	183.4	163.1	142.9	122.6	102.3	82.1	61.8	41.5	21.3	1.0	32.1
107.5°	167.8	149.3	130.7	112.2	93.7	75.1	56.6	38.1	19.5	1.0	29.5
110°	153.2	136.3	119.4	102.5	85.6	68.6	51.7	34.8	17.9	1.0	26.5





TEST NUMBER: P201350

CATALOG NUMBER: 4LBLED-LD4-9-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°	139.6	124.2	108.8	93.4	78.0	62.6	47.2	31.8	16.4	1.0	24.2
115°	126.1	112.2	98.3	84.4	70.5	56.6	42.7	28.8	14.9	1.0	22.1
117.5°	113.6	101.1	88.6	76.1	63.6	51.0	38.5	26.0	13.5	1.0	20.1
120°	103.2	91.8	80.5	69.1	57.8	46.4	35.1	23.7	12.4	1.0	18.3
122.5°	93.8	83.5	73.2	62.9	52.6	42.2	31.9	21.6	11.3	1.0	16.2
125°	84.4	75.1	65.9	56.6	47.3	38.1	28.8	19.5	10.3	1.0	14.3
127.5°	75.0	66.8	58.6	50.3	42.1	33.9	25.7	17.4	9.2	1.0	12.4
130°	66.7	59.4	52.1	44.8	37.5	30.2	22.9	15.6	8.3	1.0	10.3
132.5°	58.4	52.0	45.6	39.3	32.9	26.5	20.1	13.8	7.4	1.0	8.5
135°	50.0	44.6	39.1	33.7	28.2	22.8	17.3	11.9	6.4	1.0	6.8
137.5°	42.7	38.1	33.4	28.8	24.2	19.5	14.9	10.3	5.6	1.0	5.4
140°	34.4	30.7	27.0	23.3	19.6	15.8	12.1	8.4	4.7	1.0	4.0
142.5°	27.1	24.2	21.3	18.4	15.5	12.6	9.7	6.8	3.9	1.0	3.1
145°	20.8	18.6	16.4	14.2	12.0	9.8	7.6	5.4	3.2	1.0	2.4
147.5°	16.7	15.1	13.5	11.8	10.2	8.6	7.0	5.3	3.7	2.1	3.0
150°	14.6	13.2	11.8	10.4	9.0	7.7	6.3	4.9	3.5	2.1	2.8
152.5°	12.5	11.3	10.2	9.0	7.9	6.7	5.6	4.4	3.3	2.1	2.6
155°	9.4	8.6	7.8	7.0	6.2	5.3	4.5	3.7	2.9	2.1	2.4
157.5°	7.3	6.7	6.1	5.6	5.0	4.4	3.8	3.3	2.7	2.1	2.3
160°	5.2	4.9	4.5	4.2	3.8	3.5	3.1	2.8	2.4	2.1	2.2
162.5°	4.2	4.0	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	2.1
165°	3.1	3.0	2.9	2.8	2.7	2.5	2.4	2.3	2.2	2.1	2.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	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: P201350

CATALOG NUMBER: 4LBLEDD4-9-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°	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8
2.5°	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4	1178.3	1179.3	1180.2
5°	1173.5	1174.7	1175.8	1177.0	1178.1	1179.3	1180.4	1181.6	1183.8	1186.0	1188.2
7.5°	1166.7	1169.1	1171.5	1174.0	1176.4	1178.8	1181.3	1183.7	1187.2	1190.7	1194.1
10°	1154.8	1158.7	1162.5	1166.3	1170.1	1174.0	1177.8	1181.6	1186.2	1190.9	1195.5
12.5°	1139.7	1144.8	1149.9	1155.0	1160.1	1165.2	1170.3	1175.4	1181.5	1187.7	1193.8
15°	1120.8	1127.4	1134.0	1140.6	1147.2	1153.8	1160.4	1167.0	1174.8	1182.5	1190.3
17.5°	1098.6	1106.6	1114.6	1122.5	1130.5	1138.5	1146.5	1154.5	1164.1	1173.7	1183.3
20°	1073.5	1083.0	1092.5	1101.9	1111.4	1120.9	1130.4	1139.9	1151.6	1163.3	1175.0
22.5°	1043.3	1054.5	1065.6	1076.7	1087.8	1099.0	1110.1	1121.2	1135.8	1150.4	1165.0
25°	1012.3	1025.0	1037.7	1050.5	1063.2	1075.9	1088.7	1101.4	1119.6	1137.8	1155.9
27.5°	979.0	993.4	1007.7	1022.1	1036.4	1050.8	1065.1	1079.5	1101.4	1123.3	1145.1
30°	941.0	957.2	973.4	989.7	1005.9	1022.1	1038.3	1054.5	1080.5	1106.6	1132.6
32.5°	902.3	920.4	938.6	956.8	975.0	993.1	1011.3	1029.5	1059.3	1089.0	1118.8
35°	862.2	882.2	902.2	922.3	942.3	962.3	982.4	1002.4	1036.3	1070.2	1104.2
37.5°	821.9	844.7	867.5	890.3	913.1	935.9	958.7	981.5	1019.1	1056.8	1094.4
40°	781.6	807.2	832.8	858.3	883.9	909.5	935.1	960.7	1002.4	1044.1	1085.7
42.5°	739.5	767.9	796.4	824.9	853.4	881.8	910.3	938.8	984.9	1031.0	1077.0
45°	698.3	730.1	761.9	793.8	825.6	857.4	889.3	921.1	971.5	1021.8	1072.2
47.5°	658.2	692.9	727.6	762.4	797.1	831.8	866.6	901.3	956.9	1012.5	1068.0
50°	617.5	655.4	693.3	731.1	769.0	806.9	844.7	882.6	943.7	1004.8	1066.0
52.5°	577.1	618.2	659.3	700.4	741.5	782.6	823.7	864.8	932.0	999.1	1066.3
55°	539.6	583.9	628.1	672.3	716.5	760.8	805.0	849.2	923.1	996.9	1070.8
57.5°	502.3	549.8	597.3	644.7	692.2	739.7	787.1	834.6	915.9	997.2	1078.4
60°	466.3	517.2	568.0	618.8	669.6	720.5	771.3	822.1	911.1	1000.2	1089.2
62.5°	432.2	486.3	540.4	594.4	648.5	702.6	756.6	810.7	907.6	1004.5	1101.4
65°	398.7	455.7	512.8	569.9	627.0	684.0	741.1	798.2	902.6	1007.0	1111.5
67.5°	363.5	423.4	483.2	543.1	602.9	662.8	722.6	782.5	893.6	1004.8	1115.9
70°	331.3	393.2	455.1	517.1	579.0	640.9	702.9	764.8	880.9	997.0	1113.2
72.5°	302.1	365.0	428.0	491.0	554.0	616.9	679.9	742.9	861.5	980.0	1098.6
75°	271.2	334.8	398.5	462.2	525.9	589.5	653.2	716.9	835.1	953.3	1071.5
77.5°	239.6	303.2	366.8	430.3	493.9	557.5	621.0	684.6	799.3	914.1	1028.8
80°	209.7	272.3	334.9	397.6	460.2	522.8	585.5	648.1	757.2	866.2	975.3
82.5°	180.2	241.1	302.0	362.8	423.7	484.6	545.5	606.4	708.3	810.2	912.1
85°	152.6	211.2	269.8	328.3	386.9	445.5	504.1	562.7	656.6	750.5	844.4
87.5°	126.2	182.0	237.8	293.6	349.4	405.2	461.0	516.8	602.2	687.7	773.1
90°	105.4	157.7	209.9	262.1	314.3	366.6	418.8	471.0	548.6	626.1	703.7
92.5°	97.0	145.5	194.0	242.6	291.1	339.6	388.1	436.6	507.1	577.6	648.1
95°	89.4	134.1	178.8	223.4	268.1	312.8	357.5	402.2	467.0	531.9	596.7
97.5°	83.0	124.0	165.0	205.9	246.9	287.9	328.9	369.9	430.1	490.3	550.5
100°	76.0	113.5	151.0	188.6	226.1	263.6	301.1	338.6	394.4	450.2	506.0
102.5°	69.3	103.5	137.6	171.8	205.9	240.1	274.2	308.4	361.9	415.4	468.9
105°	63.3	94.4	125.6	156.7	187.9	219.0	250.2	281.3	331.7	382.0	432.4
107.5°	58.0	86.5	115.0	143.4	171.9	200.4	228.9	257.4	305.4	353.5	401.5
110°	52.0	77.4	102.9	128.4	153.9	179.3	204.8	230.3	276.4	322.5	368.5



TEST NUMBER: P201350

CATALOG NUMBER: 4LBLED-LD4-9-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°	47.3	70.5	93.6	116.8	139.9	163.1	186.2	209.4	253.2	296.9	340.7
115°	43.2	64.2	85.3	106.4	127.5	148.5	169.6	190.7	232.4	274.1	315.7
117.5°	39.2	58.3	77.4	96.6	115.7	134.8	153.9	173.0	212.9	252.9	292.8
120°	35.5	52.8	70.0	87.3	104.5	121.8	139.0	156.3	193.7	231.1	268.5
122.5°	31.3	46.5	61.7	76.8	92.0	107.2	122.3	137.5	172.1	206.7	241.4
125°	27.6	41.0	54.3	67.6	80.9	94.3	107.6	120.9	153.0	185.0	217.1
127.5°	23.7	35.1	46.4	57.8	69.1	80.5	91.8	103.2	133.1	162.9	192.8
130°	19.5	28.8	38.1	47.3	56.6	65.9	75.1	84.4	111.4	138.4	165.3
132.5°	16.1	23.6	31.1	38.7	46.2	53.7	61.3	68.8	92.6	116.5	140.3
135°	12.6	18.4	24.2	29.9	35.7	41.5	47.3	53.1	73.8	94.6	115.3
137.5°	9.8	14.2	18.6	23.0	27.4	31.8	36.2	40.6	58.4	76.3	94.1
140°	7.0	10.0	13.0	16.1	19.1	22.1	25.1	28.1	43.6	59.1	74.7
142.5°	5.2	7.3	9.4	11.4	13.5	15.6	17.7	19.8	32.9	46.0	59.0
145°	3.8	5.2	6.6	7.9	9.3	10.7	12.1	13.5	24.2	34.8	45.5
147.5°	3.9	4.9	5.8	6.7	7.6	8.6	9.5	10.4	18.7	27.1	35.4
150°	3.5	4.2	4.9	5.5	6.2	6.9	7.6	8.3	14.4	20.6	26.7
152.5°	3.0	3.5	4.0	4.4	4.9	5.4	5.8	6.3	10.6	14.9	19.1
155°	2.8	3.1	3.5	3.8	4.2	4.5	4.9	5.2	7.7	10.3	12.8
157.5°	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	5.6	7.0	8.4
160°	2.3	2.4	2.5	2.7	2.8	2.9	3.0	3.1	3.7	4.3	4.8
162.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.6	2.8
165°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	1.9	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: P201350

CATALOG NUMBER: 4LBLEDD4-9-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°	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8
2.5°	1181.1	1182.1	1183.0	1183.9	1184.9	1185.8	1186.1	1186.5	1186.8	1187.2	1187.5
5°	1190.4	1192.6	1194.8	1197.0	1199.2	1201.4	1202.6	1203.7	1204.9	1206.0	1207.2
7.5°	1197.6	1201.1	1204.6	1208.0	1211.5	1215.0	1217.0	1218.9	1220.9	1222.9	1224.8
10°	1200.1	1204.8	1209.4	1214.0	1218.7	1223.3	1226.7	1230.0	1233.4	1236.7	1240.1
12.5°	1199.9	1206.1	1212.2	1218.3	1224.5	1230.6	1235.2	1239.9	1244.5	1249.1	1253.8
15°	1198.0	1205.8	1213.5	1221.3	1229.0	1236.8	1242.8	1248.8	1254.9	1260.9	1266.9
17.5°	1192.9	1202.6	1212.2	1221.8	1231.4	1241.0	1249.1	1257.2	1265.3	1273.4	1281.5
20°	1186.7	1198.4	1210.1	1221.8	1233.5	1245.2	1256.2	1267.2	1278.2	1289.2	1300.2
22.5°	1179.6	1194.1	1208.7	1223.3	1237.9	1252.5	1266.0	1279.6	1293.1	1306.7	1320.2
25°	1174.1	1192.3	1210.5	1228.6	1246.8	1265.0	1280.4	1295.8	1311.2	1326.6	1342.0
27.5°	1167.0	1188.9	1210.8	1232.6	1254.5	1276.4	1293.8	1311.1	1328.5	1345.9	1363.2
30°	1158.7	1184.7	1210.8	1236.8	1262.9	1288.9	1308.2	1327.6	1346.9	1366.2	1385.6
32.5°	1148.5	1178.3	1208.0	1237.8	1267.5	1297.3	1319.5	1341.7	1364.0	1386.2	1408.4
35°	1138.1	1172.0	1205.9	1239.9	1273.8	1307.7	1332.9	1358.2	1383.4	1408.6	1433.9
37.5°	1132.0	1169.7	1207.3	1244.9	1282.6	1320.2	1349.1	1378.1	1407.0	1436.0	1464.9
40°	1127.4	1169.1	1210.8	1252.4	1294.1	1335.8	1368.9	1402.0	1435.1	1468.2	1501.4
42.5°	1123.1	1169.2	1215.3	1261.3	1307.4	1353.5	1391.6	1429.7	1467.8	1505.9	1544.0
45°	1122.6	1172.9	1223.3	1273.7	1324.0	1374.4	1418.5	1462.6	1506.7	1550.8	1595.0
47.5°	1123.6	1179.2	1234.8	1290.3	1345.9	1401.5	1452.1	1502.7	1553.3	1603.9	1654.4
50°	1127.1	1188.2	1249.3	1310.5	1371.6	1432.7	1490.7	1548.7	1606.7	1664.7	1722.8
52.5°	1133.4	1200.6	1267.7	1334.9	1402.0	1469.2	1535.0	1600.7	1666.5	1732.2	1798.0
55°	1144.7	1218.5	1292.4	1366.3	1440.1	1514.0	1587.7	1661.5	1735.2	1809.0	1882.7
57.5°	1159.7	1241.0	1322.3	1403.5	1484.8	1566.1	1647.3	1728.4	1809.6	1890.7	1971.9
60°	1178.2	1267.3	1356.3	1445.3	1534.4	1623.4	1711.0	1798.7	1886.3	1974.0	2061.6
62.5°	1198.3	1295.2	1392.1	1489.0	1585.9	1682.8	1775.5	1868.3	1961.0	2053.7	2146.5
65°	1215.9	1320.3	1424.7	1529.2	1633.6	1738.0	1834.4	1930.9	2027.3	2123.8	2220.2
67.5°	1227.1	1338.2	1449.4	1560.5	1671.7	1782.8	1881.6	1980.3	2079.1	2177.8	2276.6
70°	1229.3	1345.4	1461.5	1577.7	1693.8	1809.9	1908.2	2006.5	2104.8	2203.1	2301.4
72.5°	1217.1	1335.7	1454.2	1572.8	1691.3	1809.9	1905.8	2001.6	2097.5	2193.4	2289.2
75°	1189.7	1308.0	1426.2	1544.4	1662.6	1780.8	1873.4	1966.0	2058.6	2151.2	2243.9
77.5°	1143.5	1258.3	1373.0	1487.7	1602.5	1717.2	1803.6	1889.9	1976.3	2062.7	2149.0
80°	1084.4	1193.4	1302.5	1411.6	1520.6	1629.7	1709.1	1788.5	1868.0	1947.4	2026.8
82.5°	1014.0	1115.8	1217.7	1319.6	1421.5	1523.4	1597.4	1671.4	1745.3	1819.3	1893.3
85°	938.3	1032.1	1126.0	1219.9	1313.8	1407.7	1472.7	1537.6	1602.6	1667.5	1732.5
87.5°	858.6	944.0	1029.5	1114.9	1200.4	1285.8	1343.8	1401.8	1459.8	1517.8	1575.8
90°	781.3	858.8	936.4	1014.0	1091.5	1169.1	1221.4	1273.8	1326.1	1378.4	1430.8
92.5°	718.6	789.2	859.7	930.2	1000.7	1071.2	1119.2	1167.3	1215.3	1263.4	1311.4
95°	661.5	726.4	791.2	856.0	920.9	985.7	1032.2	1078.8	1125.3	1171.9	1218.4
97.5°	610.7	670.9	731.1	791.3	851.5	911.7	955.1	998.5	1042.0	1085.4	1128.8
100°	561.8	617.7	673.5	729.3	785.1	840.9	883.3	925.6	968.0	1010.4	1052.7
102.5°	522.4	575.8	629.3	682.8	736.3	789.8	830.4	871.1	911.7	952.4	993.0
105°	482.8	533.1	583.5	633.9	684.2	734.6	775.0	815.4	855.8	896.2	936.7
107.5°	449.6	497.6	545.7	593.7	641.8	689.8	729.5	769.2	808.9	848.6	888.4
110°	414.6	460.7	506.8	552.8	598.9	645.0	684.0	723.0	762.0	801.0	840.1



TEST NUMBER: P201350

CATALOG NUMBER: 4LBLED-LD4-9-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°	384.5	428.2	472.0	515.8	559.5	603.3	641.3	679.3	717.2	755.2	793.2
115°	357.4	399.1	440.8	482.4	524.1	565.8	602.0	638.3	674.5	710.7	747.0
117.5°	332.8	372.7	412.7	452.6	492.6	532.5	566.8	601.0	635.3	669.6	703.8
120°	305.9	343.3	380.7	418.1	455.5	492.9	526.4	559.8	593.3	626.7	660.2
122.5°	276.0	310.6	345.2	379.9	414.5	449.1	481.9	514.6	547.4	580.2	612.9
125°	249.2	281.2	313.3	345.4	377.4	409.5	440.4	471.3	502.2	533.1	564.1
127.5°	222.7	252.5	282.4	312.3	342.1	372.0	400.4	428.7	457.1	485.5	513.8
130°	192.3	219.3	246.3	273.2	300.2	327.2	353.4	379.5	405.7	431.9	458.0
132.5°	164.2	188.0	211.9	235.7	259.6	283.4	308.1	332.7	357.4	382.1	406.7
135°	136.0	156.8	177.5	198.2	219.0	239.7	263.5	287.4	311.2	335.1	358.9
137.5°	111.9	129.8	147.6	165.4	183.3	201.1	223.2	245.3	267.4	289.5	311.7
140°	90.2	105.7	121.2	136.8	152.3	167.8	186.9	206.0	225.1	244.2	263.3
142.5°	72.1	85.2	98.3	111.3	124.4	137.5	153.7	169.9	186.1	202.3	218.6
145°	56.1	66.8	77.4	88.1	98.7	109.4	122.9	136.5	150.0	163.6	177.1
147.5°	43.7	52.1	60.4	68.7	77.1	85.4	96.6	107.9	119.1	130.3	141.6
150°	32.9	39.0	45.2	51.3	57.5	63.6	72.9	82.1	91.4	100.6	109.9
152.5°	23.4	27.7	32.0	36.2	40.5	44.8	52.1	59.4	66.7	74.0	81.3
155°	15.4	17.9	20.5	23.0	25.6	28.1	33.8	39.5	45.1	50.8	56.5
157.5°	9.8	11.1	12.5	13.9	15.3	16.7	20.7	24.8	28.8	32.9	36.9
160°	5.4	6.0	6.6	7.1	7.7	8.3	10.7	13.2	15.6	18.0	20.5
162.5°	3.0	3.3	3.5	3.7	4.0	4.2	5.2	6.3	7.3	8.3	9.4
165°	1.6	1.5	1.4	1.2	1.1	1.0	1.4	1.7	2.1	2.4	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: P201350

CATALOG NUMBER: 4LBLEDD4-9-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°	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8
2.5°	1187.9	1188.2	1188.6	1188.9	1187.7	1186.6	1185.4	1184.3	1183.1	1182.0	1180.8
5°	1208.3	1209.5	1210.6	1211.8	1211.7	1211.6	1211.5	1211.4	1211.2	1211.1	1211.0
7.5°	1226.8	1228.8	1230.7	1232.7	1233.0	1233.4	1233.7	1234.1	1234.4	1234.8	1235.1
10°	1243.4	1246.8	1250.1	1253.5	1254.0	1254.4	1254.9	1255.4	1255.8	1256.3	1256.8
12.5°	1258.4	1263.0	1267.7	1272.3	1273.3	1274.4	1275.4	1276.4	1277.5	1278.5	1279.5
15°	1272.9	1279.0	1285.0	1291.0	1292.9	1294.7	1296.6	1298.4	1300.3	1302.1	1304.0
17.5°	1289.6	1297.7	1305.8	1313.9	1317.0	1320.2	1323.3	1326.4	1329.6	1332.7	1335.8
20°	1311.2	1322.2	1333.2	1344.2	1348.2	1352.3	1356.3	1360.4	1364.4	1368.5	1372.5
22.5°	1333.8	1347.3	1360.9	1374.4	1378.9	1383.4	1387.9	1392.4	1397.0	1401.5	1406.0
25°	1357.4	1372.8	1388.2	1403.6	1408.8	1414.0	1419.2	1424.4	1429.6	1434.8	1440.0
27.5°	1380.6	1398.0	1415.3	1432.7	1438.8	1445.0	1451.1	1457.3	1463.4	1469.6	1475.7
30°	1404.9	1424.2	1443.6	1462.9	1470.3	1477.7	1485.1	1492.5	1500.0	1507.4	1514.8
32.5°	1430.6	1452.9	1475.1	1497.3	1506.1	1514.9	1523.7	1532.5	1541.3	1550.1	1558.9
35°	1459.1	1484.3	1509.6	1534.8	1545.6	1556.3	1567.1	1577.9	1588.6	1599.4	1610.2
37.5°	1493.9	1522.8	1551.8	1580.7	1593.4	1606.2	1618.9	1631.6	1644.4	1657.1	1669.8
40°	1534.5	1567.6	1600.7	1633.8	1648.7	1663.7	1678.6	1693.5	1708.5	1723.4	1738.3
42.5°	1582.1	1620.2	1658.3	1696.4	1713.9	1731.4	1748.8	1766.3	1783.8	1801.3	1818.7
45°	1639.1	1683.2	1727.3	1771.4	1791.3	1811.2	1831.1	1851.0	1871.0	1890.9	1910.8
47.5°	1705.0	1755.6	1806.2	1856.8	1879.3	1901.7	1924.2	1946.7	1969.1	1991.6	2014.1
50°	1780.8	1838.8	1896.8	1954.8	1981.1	2007.4	2033.6	2059.9	2086.2	2112.5	2138.7
52.5°	1863.7	1929.5	1995.2	2061.0	2090.2	2119.4	2148.5	2177.7	2206.9	2236.1	2265.2
55°	1956.5	2030.2	2104.0	2177.7	2207.9	2238.1	2268.4	2298.6	2328.8	2359.0	2389.3
57.5°	2053.0	2134.2	2215.3	2296.5	2328.7	2360.9	2393.1	2425.3	2457.4	2489.6	2521.8
60°	2149.3	2236.9	2324.6	2412.2	2446.4	2480.5	2514.7	2548.8	2583.0	2617.1	2651.3
62.5°	2239.2	2331.9	2424.7	2517.4	2551.7	2586.0	2620.2	2654.5	2688.8	2723.1	2757.3
65°	2316.7	2413.1	2509.6	2606.0	2639.0	2672.0	2705.0	2738.0	2771.0	2804.0	2837.0
67.5°	2375.3	2474.1	2572.8	2671.6	2703.1	2734.6	2766.1	2797.6	2829.1	2860.6	2892.1
70°	2399.7	2498.0	2596.3	2694.6	2725.0	2755.5	2785.9	2816.4	2846.8	2877.3	2907.7
72.5°	2385.1	2481.0	2576.8	2672.7	2702.3	2732.0	2761.6	2791.2	2820.9	2850.5	2880.1
75°	2336.5	2429.1	2521.7	2614.3	2641.5	2668.7	2695.9	2723.1	2750.4	2777.6	2804.8
77.5°	2235.4	2321.8	2408.1	2494.5	2521.6	2548.7	2575.8	2602.9	2629.9	2657.0	2684.1
80°	2106.2	2185.7	2265.1	2344.5	2370.5	2396.6	2422.6	2448.7	2474.7	2500.8	2526.8
82.5°	1967.3	2041.2	2115.2	2189.2	2211.5	2233.9	2256.2	2278.6	2300.9	2323.3	2345.6
85°	1797.4	1862.4	1927.3	1992.3	2014.5	2036.7	2059.0	2081.2	2103.4	2125.6	2147.9
87.5°	1633.8	1691.8	1749.8	1807.8	1828.8	1849.7	1870.7	1891.6	1912.6	1933.5	1954.5
90°	1483.1	1535.4	1587.8	1640.1	1659.9	1679.7	1699.5	1719.3	1739.1	1758.9	1778.7
92.5°	1359.5	1407.5	1455.6	1503.6	1522.0	1540.4	1558.8	1577.2	1595.7	1614.1	1632.5
95°	1265.0	1311.5	1358.1	1404.6	1420.1	1435.6	1451.1	1466.6	1482.2	1497.7	1513.2
97.5°	1172.2	1215.7	1259.1	1302.5	1318.0	1333.5	1349.0	1364.5	1380.1	1395.6	1411.1
100°	1095.1	1137.5	1179.8	1222.2	1237.4	1252.5	1267.7	1282.9	1298.0	1313.2	1328.4
102.5°	1033.7	1074.3	1115.0	1155.6	1170.6	1185.7	1200.7	1215.8	1230.8	1245.9	1260.9
105°	977.1	1017.5	1057.9	1098.3	1113.2	1128.2	1143.1	1158.0	1173.0	1187.9	1202.8
107.5°	928.1	967.8	1007.5	1047.2	1061.9	1076.6	1091.3	1106.0	1120.7	1135.4	1150.1
110°	879.1	918.1	957.1	996.1	1010.8	1025.5	1040.2	1054.9	1069.7	1084.4	1099.1



TEST NUMBER: P201350

CATALOG NUMBER: 4LBLED-LD4-9-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°	831.2	869.1	907.1	945.1	959.7	974.3	988.9	1003.5	1018.0	1032.6	1047.2
115°	783.2	819.4	855.7	891.9	906.3	920.6	935.0	949.3	963.7	978.0	992.4
117.5°	738.1	772.4	806.6	840.9	854.6	868.2	881.9	895.5	909.2	922.8	936.5
120°	693.6	727.1	760.5	794.0	806.9	819.7	832.6	845.4	858.3	871.1	884.0
122.5°	645.7	678.5	711.2	744.0	756.7	769.5	782.2	794.9	807.7	820.4	833.1
125°	595.0	625.9	656.8	687.7	700.4	713.2	725.9	738.6	751.4	764.1	776.8
127.5°	542.2	570.6	598.9	627.3	639.7	652.1	664.5	676.9	689.2	701.6	714.0
130°	484.2	510.4	536.5	562.7	574.2	585.6	597.1	608.5	620.0	631.4	642.9
132.5°	431.4	456.1	480.7	505.4	515.2	525.1	534.9	544.7	554.6	564.4	574.2
135°	382.8	406.6	430.5	454.3	462.9	471.4	480.0	488.6	497.1	505.7	514.3
137.5°	333.8	355.9	378.0	400.1	408.3	416.5	424.8	433.0	441.2	449.4	457.7
140°	282.4	301.5	320.6	339.7	348.4	357.1	365.7	374.4	383.1	391.8	400.4
142.5°	234.8	251.0	267.2	283.4	292.2	301.0	309.8	318.6	327.4	336.2	345.0
145°	190.7	204.2	217.8	231.3	240.3	249.4	258.4	267.4	276.5	285.5	294.5
147.5°	152.8	164.0	175.3	186.5	195.2	203.9	212.6	221.3	229.9	238.6	247.3
150°	119.1	128.4	137.6	146.9	154.8	162.7	170.5	178.4	186.3	194.2	202.0
152.5°	88.6	95.9	103.2	110.5	117.9	125.3	132.7	140.1	147.5	154.9	162.3
155°	62.2	67.8	73.5	79.2	85.9	92.6	99.3	106.0	112.8	119.5	126.2
157.5°	41.0	45.0	49.1	53.1	58.8	64.5	70.1	75.8	81.5	87.2	92.8
160°	22.9	25.3	27.8	30.2	34.8	39.5	44.1	48.7	53.4	58.0	62.6
162.5°	10.4	11.4	12.5	13.5	16.7	20.0	23.2	26.5	29.7	33.0	36.2
165°	3.1	3.5	3.8	4.2	6.2	8.1	10.1	12.1	14.0	16.0	18.0
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: P201350

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	1160.8	1160.8
2.5°	1179.7	1178.5
5°	1210.9	1210.8
7.5°	1235.5	1235.8
10°	1257.2	1257.7
12.5°	1280.6	1281.6
15°	1305.8	1307.7
17.5°	1339.0	1342.1
20°	1376.6	1380.6
22.5°	1410.5	1415.0
25°	1445.2	1450.4
27.5°	1481.9	1488.0
30°	1522.2	1529.6
32.5°	1567.7	1576.5
35°	1620.9	1631.7
37.5°	1682.6	1695.3
40°	1753.3	1768.2
42.5°	1836.2	1853.7
45°	1930.7	1950.6
47.5°	2036.5	2059.0
50°	2165.0	2191.3
52.5°	2294.4	2323.6
55°	2419.5	2449.7
57.5°	2554.0	2586.2
60°	2685.4	2719.6
62.5°	2791.6	2825.9
65°	2870.0	2903.0
67.5°	2923.6	2955.1
70°	2938.2	2968.6
72.5°	2909.8	2939.4
75°	2832.0	2859.2
77.5°	2711.2	2738.3
80°	2552.9	2578.9
82.5°	2368.0	2390.3
85°	2170.1	2192.3
87.5°	1975.4	1996.4
90°	1798.5	1818.3
92.5°	1650.9	1669.3
95°	1528.7	1544.2
97.5°	1426.6	1442.1
100°	1343.5	1358.7
102.5°	1276.0	1291.0
105°	1217.8	1232.7
107.5°	1164.8	1179.5
110°	1113.8	1128.5





TEST NUMBER: P201350

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
112.5°	1061.8	1076.4
115°	1006.7	1021.1
117.5°	950.1	963.8
120°	896.8	909.7
122.5°	845.9	858.6
125°	789.6	802.3
127.5°	726.4	738.8
130°	654.3	665.8
132.5°	584.1	593.9
135°	522.8	531.4
137.5°	465.9	474.1
140°	409.1	417.8
142.5°	353.8	362.6
145°	303.6	312.6
147.5°	256.0	264.7
150°	209.9	217.8
152.5°	169.7	177.1
155°	132.9	139.6
157.5°	98.5	104.2
160°	67.3	71.9
162.5°	39.5	42.7
165°	19.9	21.9
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)