

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: P201351

Luminaire Tested: **4LBLED-LD4-10-ASYMF-UNV-L835-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28237)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4LBLED-LD4-10-ASYMF-UNV-L835-CD2-U
Description: 4 ft. Low Bay Linear, 10000 lm, Frst Asym lens, 3.5K
Light Source: (308) 3500K CCT, 80 CRI LEDS
2UT217098A8350C, 2UT217056A8350B
Ballast/Driver: OSRAM
OT50W01000CC, OT50W0760CC

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10412.5 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 2 / 1.17 / 1.77
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

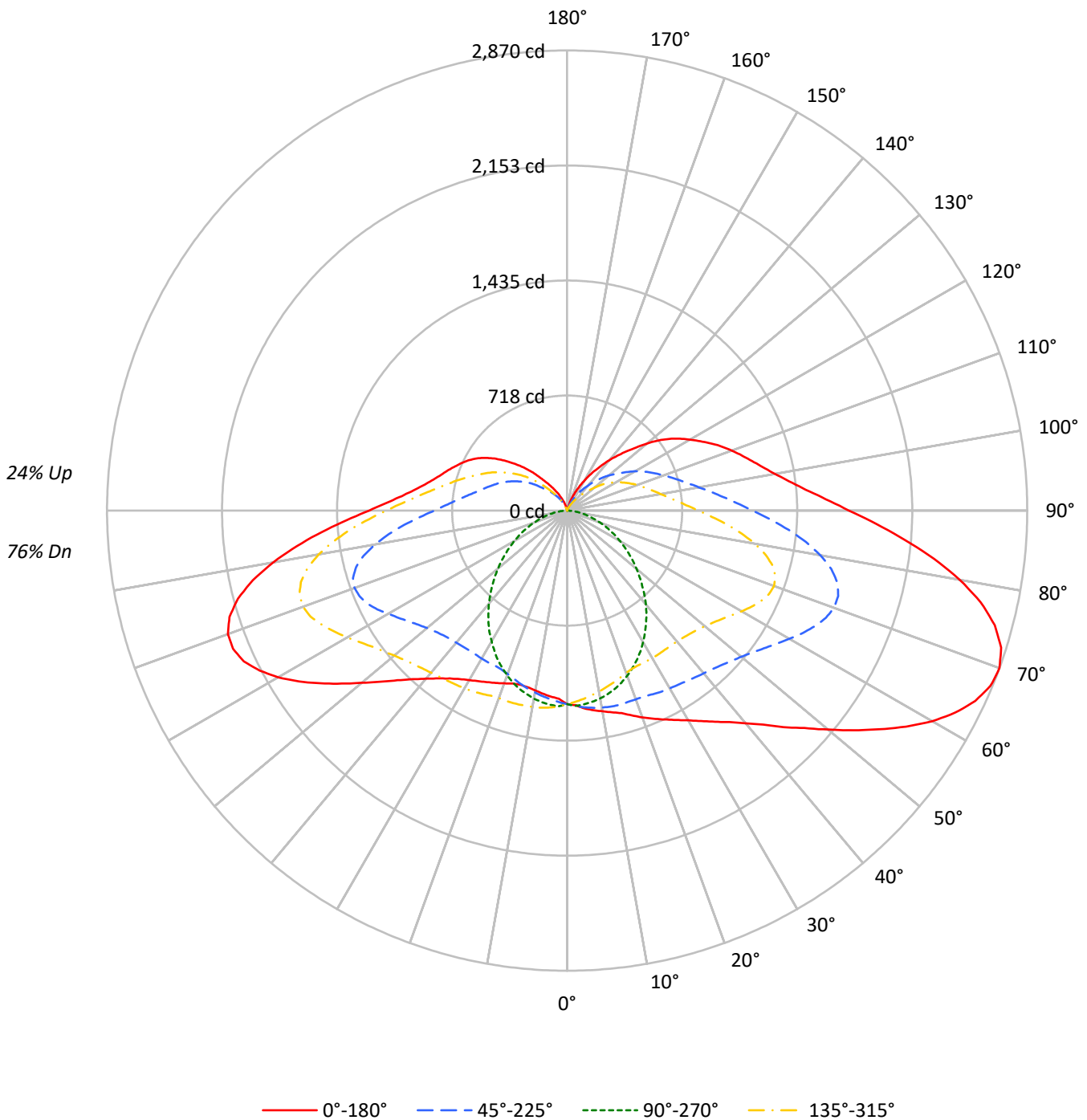
Input Watts (W): 82.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19451	19451	19451	19451
5°	18067	19532	16987	19580
10°	17056	19299	15279	19315
15°	16359	18932	14071	18932
20°	16202	18452	13531	18401
25°	16167	17846	13276	17813
30°	16350	17127	13214	17018
35°	16891	16287	13432	16230
40°	17814	15383	14073	15302
45°	19383	14327	15189	14305
50°	21437	13349	16858	13302
55°	24037	12307	18990	12281
60°	26822	11282	21231	11252
65°	29171	10174	23113	10209
70°	30577	8966	23993	8966
75°	30435	7628	23428	7732
80°	28623	6091	21433	6235
85°	25684	4012	18642	4244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	1.1
10°-20°	334.2	3.2
20°-30°	538.1	5.2
30°-40°	728.3	7.0
40°-50°	933.3	9.0
50°-60°	1192.9	11.5
60°-70°	1457.8	14.0
70°-80°	1489.7	14.3
80°-90°	1167.8	11.2
90°-100°	814.5	7.8
100°-110°	606.8	5.8
110°-120°	454.7	4.4
120°-130°	309.0	3.0
130°-140°	171.5	1.6
140°-150°	74.2	0.7
150°-160°	22.6	0.2
160°-170°	2.5	0.0
170°-180°	0.0	0.0
0°-30°	986.9	9.5
0°-40°	1715.2	16.5
0°-60°	3841.3	36.9
0°-90°	7956.7	76.4
90°-120°	1875.9	18.0
90°-150°	2430.6	23.3
90°-180°	2456.0	23.6
0°-180°	10412.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1207	1207	1207	1207	1207	
5°	1239	1213	1165	1216	1239	119
15°	1308	1151	1125	1151	1308	374
25°	1437	1028	1180	1026	1437	668
35°	1608	858	1278	855	1608	1015
45°	1910	661	1497	660	1910	1486
55°	2378	471	1878	470	2378	2138
65°	2809	297	2225	298	2809	2767
75°	2761	146	2126	148	2761	2887
85°	2117	35	1536	37	2117	1806
90°	1758	0	1235	1	1758	967
95°	1494	0	1035	1	1494	1186
105°	1193	0	828	1	1193	1268
115°	991	0	714	1	991	984
125°	780	0	568	1	780	698
135°	520	0	376	1	520	408
145°	308	0	199	1	308	197
155°	139	0	90	2	139	67
165°	24	0	18	2	24	8
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°	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1
2.5°	1215.0	1214.9	1214.8	1214.7	1214.6	1214.4	1214.3	1214.2	1214.1	1214.0	1214.8
5°	1238.7	1237.7	1236.7	1235.7	1234.7	1233.8	1232.8	1231.8	1230.8	1229.8	1230.0
7.5°	1255.5	1254.2	1252.9	1251.6	1250.3	1248.9	1247.6	1246.3	1245.0	1243.7	1243.4
10°	1271.3	1269.5	1267.8	1266.0	1264.3	1262.5	1260.8	1259.0	1257.3	1255.5	1254.6
12.5°	1288.1	1285.9	1283.7	1281.5	1279.3	1277.2	1275.0	1272.8	1270.6	1268.4	1266.6
15°	1307.9	1305.5	1303.1	1300.7	1298.3	1295.8	1293.4	1291.0	1288.6	1286.2	1282.7
17.5°	1338.6	1334.9	1331.1	1327.4	1323.7	1319.9	1316.2	1312.5	1308.7	1305.0	1299.2
20°	1373.2	1368.0	1362.9	1357.7	1352.5	1347.4	1342.2	1337.0	1331.9	1326.7	1318.5
22.5°	1404.8	1399.0	1393.2	1387.3	1381.5	1375.7	1369.9	1364.0	1358.2	1352.4	1341.5
25°	1437.4	1431.1	1424.9	1418.6	1412.4	1406.1	1399.9	1393.6	1387.4	1381.1	1368.0
27.5°	1472.0	1465.0	1458.0	1450.9	1443.9	1436.9	1429.9	1422.8	1415.8	1408.8	1393.7
30°	1510.6	1502.4	1494.1	1485.9	1477.6	1469.4	1461.1	1452.9	1444.6	1436.4	1419.0
32.5°	1556.1	1546.3	1536.5	1526.8	1517.0	1507.2	1497.4	1487.7	1477.9	1468.1	1448.1
35°	1607.5	1596.3	1585.1	1573.9	1562.7	1551.4	1540.2	1529.0	1517.8	1506.6	1483.4
37.5°	1661.8	1649.4	1637.0	1624.6	1612.2	1599.7	1587.3	1574.9	1562.5	1550.1	1523.5
40°	1732.0	1717.5	1703.0	1688.5	1674.0	1659.5	1645.0	1630.5	1616.0	1601.5	1570.7
42.5°	1810.1	1793.6	1777.1	1760.7	1744.2	1727.7	1711.2	1694.8	1678.3	1661.8	1626.2
45°	1910.0	1890.3	1870.7	1851.0	1831.3	1811.7	1792.0	1772.3	1752.7	1733.0	1691.8
47.5°	2006.9	1985.6	1964.3	1943.0	1921.7	1900.3	1879.0	1857.7	1836.4	1815.1	1767.6
50°	2124.5	2100.4	2076.4	2052.3	2028.3	2004.2	1980.2	1956.1	1932.1	1908.0	1853.5
52.5°	2250.1	2223.7	2197.4	2171.0	2144.6	2118.3	2091.9	2065.5	2039.2	2012.8	1950.7
55°	2377.6	2349.3	2320.9	2292.6	2264.2	2235.9	2207.5	2179.2	2150.8	2122.5	2053.1
57.5°	2507.1	2477.2	2447.3	2417.5	2387.6	2357.7	2327.8	2298.0	2268.1	2238.2	2161.3
60°	2627.7	2596.9	2566.2	2535.4	2504.7	2473.9	2443.2	2412.4	2381.7	2350.9	2267.4
62.5°	2729.5	2699.1	2668.7	2638.2	2607.8	2577.4	2547.0	2516.5	2486.1	2455.7	2366.7
65°	2808.6	2779.1	2749.5	2720.0	2690.4	2660.9	2631.3	2601.8	2572.2	2542.7	2449.7
67.5°	2858.0	2829.4	2800.9	2772.3	2743.8	2715.2	2686.7	2658.1	2629.6	2601.0	2506.1
70°	2869.9	2842.9	2815.9	2788.8	2761.8	2734.8	2707.8	2680.7	2653.7	2626.7	2531.7
72.5°	2838.3	2812.8	2787.3	2761.8	2736.3	2710.9	2685.4	2659.9	2634.4	2608.9	2516.0
75°	2761.2	2737.4	2713.5	2689.7	2665.8	2642.0	2618.1	2594.3	2570.4	2546.6	2457.6
77.5°	2642.5	2620.0	2597.5	2575.0	2552.5	2529.9	2507.4	2484.9	2462.4	2439.9	2356.4
80°	2487.3	2466.3	2445.3	2424.4	2403.4	2382.4	2361.4	2340.5	2319.5	2298.5	2221.3
82.5°	2309.4	2289.8	2270.3	2250.7	2231.2	2211.6	2192.1	2172.5	2153.0	2133.4	2063.2
85°	2116.6	2098.6	2080.6	2062.6	2044.6	2026.5	2008.5	1990.5	1972.5	1954.5	1891.4
87.5°	1929.7	1912.3	1895.0	1877.6	1860.3	1842.9	1825.6	1808.2	1790.9	1773.5	1717.3
90°	1757.7	1741.6	1725.4	1709.3	1693.1	1677.0	1660.8	1644.7	1628.5	1612.4	1561.5
92.5°	1614.4	1599.1	1583.9	1568.6	1553.3	1538.1	1522.8	1507.5	1492.3	1477.0	1430.6
95°	1493.8	1479.4	1465.0	1450.6	1436.2	1421.9	1407.5	1393.1	1378.7	1364.3	1321.1
97.5°	1395.9	1381.8	1367.8	1353.7	1339.7	1325.6	1311.6	1297.5	1283.5	1269.4	1228.4
100°	1314.8	1301.0	1287.1	1273.3	1259.5	1245.6	1231.8	1218.0	1204.1	1190.3	1150.8
102.5°	1249.6	1235.8	1221.9	1208.1	1194.2	1180.4	1166.5	1152.7	1138.8	1125.0	1086.4
105°	1193.2	1179.5	1165.8	1152.0	1138.3	1124.6	1110.9	1097.1	1083.4	1069.7	1031.7
107.5°	1142.8	1129.0	1115.1	1101.3	1087.5	1073.6	1059.8	1046.0	1032.1	1018.3	981.2
110°	1093.4	1079.7	1065.9	1052.2	1038.5	1024.7	1011.0	997.3	983.5	969.8	933.3



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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°	1044.0	1030.2	1016.3	1002.5	988.6	974.8	960.9	947.1	933.2	919.4	884.1
115°	990.6	977.1	963.6	950.1	936.6	923.0	909.5	896.0	882.5	869.0	835.3
117.5°	936.2	923.2	910.3	897.3	884.3	871.4	858.4	845.4	832.5	819.5	787.2
120°	883.8	871.6	859.4	847.2	835.0	822.9	810.7	798.5	786.3	774.1	742.7
122.5°	834.4	822.5	810.7	798.8	786.9	775.1	763.2	751.3	739.5	727.6	696.5
125°	780.0	768.5	756.9	745.4	733.9	722.3	710.8	699.3	687.7	676.2	646.5
127.5°	719.7	708.5	697.3	686.1	674.9	663.7	652.5	641.3	630.1	618.9	591.8
130°	651.5	641.1	630.6	620.2	609.8	599.3	588.9	578.5	568.0	557.6	533.5
132.5°	581.3	572.4	563.5	554.6	545.7	536.8	527.9	519.0	510.1	501.2	479.7
135°	520.0	512.4	504.8	497.3	489.7	482.1	474.5	467.0	459.4	451.8	431.9
137.5°	464.6	457.7	450.8	443.9	437.0	430.0	423.1	416.2	409.3	402.4	384.3
140°	410.3	404.0	397.8	391.5	385.2	379.0	372.7	366.4	360.2	353.9	337.4
142.5°	357.9	352.3	346.7	341.1	335.5	329.9	324.3	318.7	313.1	307.5	293.0
145°	307.5	302.8	298.0	293.3	288.6	283.8	279.1	274.4	269.6	264.9	252.2
147.5°	262.0	257.5	253.0	248.5	244.0	239.4	234.9	230.4	225.9	221.4	210.6
150°	216.5	212.9	209.3	205.6	202.0	198.4	194.8	191.1	187.5	183.9	174.6
152.5°	177.0	173.8	170.6	167.4	164.2	161.1	157.9	154.7	151.5	148.3	140.4
155°	139.4	136.8	134.1	131.5	128.9	126.2	123.6	121.0	118.3	115.7	108.8
157.5°	104.8	102.7	100.6	98.5	96.4	94.4	92.3	90.2	88.1	86.0	80.4
160°	73.2	71.3	69.5	67.6	65.7	63.9	62.0	60.1	58.3	56.4	52.5
162.5°	43.5	42.4	41.3	40.2	39.1	38.0	36.9	35.8	34.7	33.6	31.3
165°	23.7	23.0	22.4	21.7	21.1	20.4	19.8	19.1	18.5	17.8	16.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1
2.5°	1215.5	1216.3	1217.1	1217.8	1218.6	1219.4	1220.1	1220.9	1219.3	1217.6	1216.0
5°	1230.2	1230.5	1230.7	1230.9	1231.1	1231.4	1231.6	1231.8	1229.3	1226.8	1224.2
7.5°	1243.0	1242.7	1242.4	1242.0	1241.7	1241.4	1241.0	1240.7	1237.1	1233.5	1229.8
10°	1253.7	1252.9	1252.0	1251.1	1250.2	1249.4	1248.5	1247.6	1242.5	1237.5	1232.4
12.5°	1264.9	1263.1	1261.4	1259.6	1257.9	1256.1	1254.4	1252.6	1246.1	1239.6	1233.1
15°	1279.2	1275.6	1272.1	1268.6	1265.1	1261.5	1258.0	1254.5	1246.7	1238.9	1231.1
17.5°	1293.4	1287.5	1281.7	1275.9	1270.1	1264.2	1258.4	1252.6	1243.4	1234.1	1224.9
20°	1310.2	1302.0	1293.8	1285.5	1277.3	1269.1	1260.8	1252.6	1241.4	1230.2	1219.0
22.5°	1330.6	1319.8	1308.9	1298.0	1287.1	1276.3	1265.4	1254.5	1240.9	1227.3	1213.6
25°	1354.9	1341.9	1328.8	1315.7	1302.6	1289.6	1276.5	1263.4	1246.3	1229.1	1212.0
27.5°	1378.7	1363.6	1348.6	1333.5	1318.5	1303.4	1288.4	1273.3	1252.3	1231.3	1210.4
30°	1401.7	1384.3	1367.0	1349.6	1332.3	1314.9	1297.6	1280.2	1255.6	1231.0	1206.4
32.5°	1428.1	1408.1	1388.1	1368.1	1348.1	1328.1	1308.1	1288.1	1259.7	1231.2	1202.8
35°	1460.2	1437.1	1413.9	1390.7	1367.5	1344.4	1321.2	1298.0	1265.5	1233.0	1200.5
37.5°	1496.9	1470.4	1443.8	1417.2	1390.6	1364.1	1337.5	1310.9	1274.3	1237.7	1201.2
40°	1540.0	1509.2	1478.5	1447.7	1417.0	1386.2	1355.5	1324.7	1284.4	1244.1	1203.8
42.5°	1590.6	1555.0	1519.4	1483.9	1448.3	1412.7	1377.1	1341.5	1297.1	1252.7	1208.4
45°	1650.6	1609.4	1568.2	1527.1	1485.9	1444.7	1403.5	1362.3	1313.4	1264.5	1215.7
47.5°	1720.2	1672.7	1625.3	1577.8	1530.4	1482.9	1435.5	1388.0	1334.0	1279.9	1225.9
50°	1799.0	1744.6	1690.1	1635.6	1581.1	1526.7	1472.2	1417.7	1358.2	1298.6	1239.1
52.5°	1888.7	1826.6	1764.5	1702.5	1640.4	1578.3	1516.3	1454.2	1388.7	1323.3	1257.8
55°	1983.7	1914.2	1844.8	1775.4	1706.0	1636.5	1567.1	1497.7	1425.4	1353.1	1280.9
57.5°	2084.4	2007.5	1930.6	1853.8	1776.9	1700.0	1623.1	1546.2	1466.9	1387.6	1308.3
60°	2183.9	2100.5	2017.0	1933.5	1850.0	1766.6	1683.1	1599.6	1512.8	1426.0	1339.3
62.5°	2277.7	2188.8	2099.8	2010.8	1921.8	1832.9	1743.9	1654.9	1560.4	1466.0	1371.5
65°	2356.6	2263.6	2170.5	2077.5	1984.4	1891.4	1798.3	1705.3	1603.7	1502.1	1400.5
67.5°	2411.2	2316.3	2221.4	2126.5	2031.6	1936.7	1841.8	1746.9	1639.0	1531.2	1423.3
70°	2436.7	2341.7	2246.7	2151.6	2056.6	1961.6	1866.6	1771.6	1658.9	1546.2	1433.5
72.5°	2423.1	2330.1	2237.2	2144.3	2051.4	1958.4	1865.5	1772.6	1657.4	1542.1	1426.9
75°	2368.7	2279.7	2190.7	2101.8	2012.8	1923.8	1834.9	1745.9	1630.7	1515.4	1400.2
77.5°	2272.9	2189.4	2105.9	2022.5	1939.0	1855.5	1772.0	1688.5	1576.2	1464.0	1351.7
80°	2144.1	2066.8	1989.6	1912.4	1835.2	1757.9	1680.7	1603.5	1496.7	1390.0	1283.2
82.5°	1993.0	1922.8	1852.6	1782.5	1712.3	1642.1	1571.9	1501.7	1401.7	1301.8	1201.8
85°	1828.4	1765.3	1702.3	1639.2	1576.2	1513.1	1450.1	1387.0	1295.1	1203.1	1111.2
87.5°	1661.0	1604.8	1548.6	1492.3	1436.1	1379.9	1323.6	1267.4	1183.9	1100.4	1016.9
90°	1510.7	1459.8	1409.0	1358.1	1307.3	1256.4	1205.6	1154.7	1078.8	1002.9	927.0
92.5°	1384.3	1337.9	1291.6	1245.2	1198.9	1152.5	1106.2	1059.8	990.7	921.6	852.5
95°	1277.9	1234.8	1191.6	1148.4	1105.2	1062.1	1018.9	975.7	912.3	848.9	785.6
97.5°	1187.4	1146.5	1105.5	1064.5	1023.5	982.6	941.6	900.6	841.9	783.3	724.6
100°	1111.2	1071.7	1032.1	992.6	953.0	913.5	873.9	834.4	779.8	725.2	670.6
102.5°	1047.9	1009.3	970.8	932.2	893.7	855.1	816.6	778.0	726.3	674.5	622.8
105°	993.7	955.7	917.7	879.6	841.6	803.6	765.6	727.6	678.4	629.2	580.0
107.5°	944.0	906.9	869.8	832.6	795.5	758.4	721.2	684.1	637.0	589.9	542.7
110°	896.9	860.4	823.9	787.5	751.0	714.5	678.1	641.6	596.5	551.3	506.2



TEST NUMBER: P201351

CATALOG NUMBER: 4LBLED-LD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	848.9	813.6	778.4	743.1	707.9	672.6	637.4	602.1	558.6	515.1	471.6
115°	801.6	767.8	734.1	700.4	666.7	632.9	599.2	565.5	524.0	482.5	440.9
117.5°	754.9	722.6	690.3	658.1	625.8	593.5	561.2	528.9	489.5	450.0	410.6
120°	711.3	679.8	648.4	617.0	585.6	554.1	522.7	491.3	454.3	417.3	380.3
122.5°	665.4	634.3	603.2	572.2	541.1	510.0	478.9	447.8	413.9	379.9	346.0
125°	616.9	587.2	557.6	527.9	498.3	468.6	439.0	409.3	377.9	346.5	315.0
127.5°	564.6	537.5	510.4	483.2	456.1	429.0	401.8	374.7	345.6	316.5	287.4
130°	509.5	485.4	461.4	437.3	413.3	389.2	365.2	341.1	314.1	287.1	260.0
132.5°	458.2	436.6	415.1	393.6	372.1	350.5	329.0	307.5	282.8	258.1	233.3
135°	412.0	392.2	372.3	352.4	332.5	312.7	292.8	272.9	250.5	228.1	205.7
137.5°	366.1	348.0	329.9	311.7	293.6	275.5	257.3	239.2	219.0	198.8	178.6
140°	320.9	304.5	288.0	271.5	255.0	238.6	222.1	205.6	187.7	169.8	151.9
142.5°	278.5	264.0	249.5	235.0	220.5	206.0	191.5	177.0	161.1	145.1	129.2
145°	239.4	226.7	214.0	201.2	188.5	175.8	163.0	150.3	136.5	122.6	108.8
147.5°	199.9	189.1	178.4	167.6	156.9	146.1	135.4	124.6	112.8	101.1	89.3
150°	165.2	155.9	146.5	137.2	127.8	118.5	109.1	99.8	90.2	80.7	71.1
152.5°	132.5	124.6	116.7	108.7	100.8	92.9	85.0	77.1	69.6	62.2	54.7
155°	101.9	94.9	88.0	81.1	74.2	67.2	60.3	53.4	48.2	43.1	37.9
157.5°	74.8	69.2	63.6	58.0	52.4	46.8	41.2	35.6	32.1	28.6	25.1
160°	48.7	44.8	41.0	37.1	33.3	29.4	25.6	21.7	19.5	17.3	15.1
162.5°	29.0	26.7	24.4	22.1	19.8	17.5	15.2	12.9	11.6	10.3	8.9
165°	15.4	14.2	13.0	11.7	10.5	9.3	8.1	6.9	6.1	5.4	4.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201351

CATALOG NUMBER: 4LBLELD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1
2.5°	1214.3	1212.7	1211.0	1209.4	1207.7	1206.1	1207.5	1208.9	1210.4	1211.8	1213.2
5°	1221.7	1219.2	1216.7	1214.1	1211.6	1209.1	1209.5	1210.0	1210.4	1210.8	1211.3
7.5°	1226.2	1222.6	1219.0	1215.3	1211.7	1208.1	1207.5	1207.0	1206.4	1205.9	1205.3
10°	1227.4	1222.3	1217.3	1212.2	1207.2	1202.1	1200.8	1199.5	1198.2	1196.9	1195.5
12.5°	1226.6	1220.2	1213.7	1207.2	1200.7	1194.2	1191.7	1189.2	1186.6	1184.1	1181.6
15°	1223.3	1215.5	1207.7	1199.9	1192.1	1184.3	1180.6	1176.8	1173.1	1169.4	1165.6
17.5°	1215.7	1206.4	1197.2	1188.0	1178.7	1169.5	1164.6	1159.6	1154.7	1149.7	1144.8
20°	1207.8	1196.5	1185.3	1174.1	1162.9	1151.7	1145.6	1139.4	1133.3	1127.1	1121.0
22.5°	1200.0	1186.4	1172.8	1159.1	1145.5	1131.9	1124.3	1116.7	1109.2	1101.6	1094.0
25°	1194.9	1177.7	1160.6	1143.5	1126.3	1109.2	1100.2	1091.2	1082.2	1073.2	1064.1
27.5°	1189.4	1168.4	1147.4	1126.5	1105.5	1084.5	1074.0	1063.4	1052.9	1042.3	1031.8
30°	1181.8	1157.2	1132.6	1108.0	1083.4	1058.8	1046.5	1034.2	1021.9	1009.6	997.3
32.5°	1174.3	1145.9	1117.4	1089.0	1060.5	1032.1	1017.8	1003.5	989.3	975.0	960.7
35°	1168.0	1135.4	1102.9	1070.4	1037.9	1005.4	989.0	972.7	956.3	939.9	923.6
37.5°	1164.6	1128.0	1091.4	1054.9	1018.3	981.7	962.8	943.9	925.0	906.1	887.2
40°	1163.5	1123.1	1082.8	1042.5	1002.2	961.9	939.8	917.7	895.7	873.6	851.5
42.5°	1164.0	1119.6	1075.2	1030.9	986.5	942.1	916.7	891.4	866.0	840.6	815.3
45°	1166.8	1117.9	1069.0	1020.2	971.3	922.4	893.4	864.4	835.4	806.4	777.4
47.5°	1171.8	1117.8	1063.7	1009.7	955.6	901.6	869.5	837.4	805.4	773.3	741.2
50°	1179.5	1120.0	1060.4	1000.9	941.3	881.8	846.7	811.5	776.4	741.2	706.1
52.5°	1192.3	1126.9	1061.4	995.9	930.5	865.0	826.4	787.9	749.3	710.8	672.2
55°	1208.6	1136.3	1064.0	991.8	919.5	847.2	805.4	763.5	721.7	679.8	638.0
57.5°	1229.0	1149.6	1070.3	991.0	911.7	832.4	787.0	741.7	696.3	650.9	605.6
60°	1252.5	1165.7	1078.9	992.2	905.4	818.6	770.0	721.5	672.9	624.4	575.8
62.5°	1277.0	1182.6	1088.1	993.6	899.2	804.7	752.9	701.0	649.2	597.3	545.5
65°	1298.9	1197.3	1095.7	994.1	892.5	790.9	736.0	681.1	626.1	571.2	516.3
67.5°	1315.4	1207.6	1099.7	991.8	884.0	776.1	718.4	660.7	603.1	545.4	487.7
70°	1320.8	1208.1	1095.4	982.7	870.0	757.3	697.3	637.3	577.4	517.4	457.4
72.5°	1311.7	1196.4	1081.2	966.0	850.7	735.5	673.9	612.3	550.6	489.0	427.4
75°	1285.0	1169.7	1054.5	939.3	824.0	708.8	646.3	583.8	521.3	458.8	396.3
77.5°	1239.5	1127.2	1015.0	902.7	790.5	678.2	615.6	553.0	490.4	427.8	365.1
80°	1176.4	1069.7	962.9	856.1	749.4	642.6	580.6	518.7	456.7	394.8	332.8
82.5°	1101.9	1001.9	902.0	802.0	702.1	602.1	541.7	481.3	420.8	360.4	300.0
85°	1019.2	927.3	835.3	743.4	651.4	559.5	501.2	442.9	384.5	326.2	267.9
87.5°	933.4	850.0	766.5	683.0	599.5	516.0	460.1	404.2	348.3	292.4	236.5
90°	851.1	775.2	699.3	623.4	547.5	471.6	419.2	366.8	314.4	262.0	209.6
92.5°	783.4	714.3	645.2	576.1	507.0	437.9	389.2	340.6	291.9	243.3	194.6
95°	722.2	658.8	595.4	532.1	468.7	405.3	360.3	315.2	270.2	225.2	180.1
97.5°	666.0	607.3	548.7	490.0	431.4	372.7	331.3	289.9	248.5	207.1	165.6
100°	616.0	561.4	506.8	452.2	397.6	343.0	304.9	266.8	228.7	190.6	152.4
102.5°	571.1	519.3	467.6	415.9	364.1	312.4	277.7	243.0	208.3	173.6	138.8
105°	530.8	481.5	432.3	383.1	333.9	284.7	253.1	221.4	189.8	158.2	126.5
107.5°	495.6	448.5	401.4	354.2	307.1	260.0	231.1	202.2	173.3	144.4	115.6
110°	461.0	415.9	370.7	325.6	280.4	235.3	209.2	183.0	156.9	130.7	104.6



TEST NUMBER: P201351

CATALOG NUMBER: 4LBLED-LD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	428.1	384.6	341.1	297.6	254.1	210.6	187.2	163.8	140.4	117.0	93.6
115°	399.4	357.9	316.4	274.8	233.3	191.8	170.5	149.2	127.9	106.6	85.2
117.5°	371.2	331.7	292.3	252.9	213.4	174.0	154.7	135.3	116.0	96.7	77.3
120°	343.3	306.2	269.2	232.2	195.2	158.2	140.6	123.0	105.5	87.9	70.3
122.5°	312.1	278.1	244.2	210.3	176.3	142.4	126.6	110.8	94.9	79.1	63.3
125°	283.6	252.2	220.8	189.3	157.9	126.5	112.4	98.4	84.3	70.3	56.2
127.5°	258.3	229.1	200.0	170.9	141.8	112.7	100.2	87.7	75.1	62.6	50.1
130°	233.0	206.0	179.0	151.9	124.9	97.9	87.0	76.1	65.3	54.4	43.5
132.5°	208.6	183.9	159.2	134.4	109.7	85.0	75.6	66.1	56.7	47.2	37.8
135°	183.3	160.8	138.4	116.0	93.6	71.2	63.3	55.4	47.5	39.6	31.6
137.5°	158.4	138.1	117.9	97.7	77.5	57.3	50.9	44.6	38.2	31.8	25.5
140°	134.0	116.1	98.2	80.3	62.4	44.5	39.6	34.6	29.7	24.7	19.8
142.5°	113.3	97.3	81.4	65.5	49.5	33.6	29.9	26.1	22.4	18.7	14.9
145°	94.9	81.1	67.2	53.4	39.5	25.7	22.8	20.0	17.1	14.3	11.4
147.5°	77.6	65.8	54.1	42.3	30.6	18.8	16.7	14.6	12.5	10.4	8.4
150°	61.6	52.0	42.5	32.9	23.4	13.8	12.3	10.7	9.2	7.7	6.1
152.5°	47.2	39.8	32.3	24.8	17.4	9.9	8.8	7.7	6.6	5.5	4.4
155°	32.7	27.6	22.4	17.2	12.1	6.9	6.1	5.4	4.6	3.8	3.1
157.5°	21.6	18.0	14.5	11.0	7.5	4.0	3.6	3.1	2.7	2.2	1.8
160°	12.9	10.8	8.6	6.4	4.2	2.0	1.8	1.6	1.3	1.1	0.9
162.5°	7.6	6.3	5.0	3.6	2.3	1.0	0.9	0.8	0.7	0.6	0.4
165°	3.8	3.1	2.3	1.5	0.8	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: P201351

CATALOG NUMBER: 4LBLED-LD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1
2.5°	1214.6	1216.1	1217.5	1218.9	1216.5	1214.1	1211.7	1209.3	1206.8	1204.4	1202.0
5°	1211.7	1212.1	1212.6	1213.0	1210.0	1207.1	1204.1	1201.1	1198.2	1195.2	1192.2
7.5°	1204.8	1204.2	1203.7	1203.1	1199.6	1196.1	1192.6	1189.1	1185.5	1182.0	1178.5
10°	1194.2	1192.9	1191.6	1190.3	1186.3	1182.4	1178.4	1174.5	1170.5	1166.6	1162.6
12.5°	1179.1	1176.5	1174.0	1171.5	1167.4	1163.4	1159.3	1155.2	1151.2	1147.1	1143.0
15°	1161.9	1158.2	1154.4	1150.7	1146.4	1142.1	1137.9	1133.6	1129.3	1125.0	1120.8
17.5°	1139.8	1134.9	1129.9	1125.0	1120.8	1116.7	1112.5	1108.3	1104.2	1100.0	1095.8
20°	1114.8	1108.7	1102.5	1096.4	1092.3	1088.3	1084.2	1080.1	1076.1	1072.0	1067.9
22.5°	1086.4	1078.9	1071.3	1063.7	1060.0	1056.2	1052.5	1048.8	1045.0	1041.3	1037.6
25°	1055.1	1046.1	1037.1	1028.1	1024.9	1021.7	1018.6	1015.4	1012.2	1009.0	1005.9
27.5°	1021.2	1010.7	1000.1	989.6	986.7	983.9	981.0	978.2	975.3	972.5	969.6
30°	985.0	972.7	960.4	948.1	946.3	944.6	942.8	941.0	939.3	937.5	935.7
32.5°	946.4	932.2	917.9	903.6	903.0	902.5	901.9	901.4	900.8	900.3	899.7
35°	907.2	890.8	874.5	858.1	859.1	860.1	861.1	862.1	863.0	864.0	865.0
37.5°	868.3	849.4	830.5	811.6	814.4	817.1	819.9	822.6	825.4	828.1	830.9
40°	829.4	807.4	785.3	763.2	768.4	773.5	778.7	783.9	789.0	794.2	799.4
42.5°	789.9	764.5	739.2	713.8	721.8	729.8	737.8	745.8	753.9	761.9	769.9
45°	748.4	719.4	690.4	661.4	672.9	684.5	696.0	707.5	719.1	730.6	742.1
47.5°	709.1	677.1	645.0	612.9	627.4	641.9	656.4	670.9	685.4	699.9	714.4
50°	670.9	635.8	600.6	565.5	583.0	600.4	617.9	635.4	652.8	670.3	687.8
52.5°	633.7	595.1	556.6	518.0	538.7	559.3	580.0	600.6	621.3	641.9	662.6
55°	596.1	554.3	512.4	470.6	494.5	518.5	542.4	566.4	590.3	614.3	638.2
57.5°	560.2	514.8	469.5	424.1	451.2	478.4	505.5	532.6	559.8	586.9	614.0
60°	527.3	478.7	430.2	381.6	411.7	441.8	471.9	502.0	532.1	562.2	592.3
62.5°	493.6	441.8	389.9	338.1	371.3	404.5	437.6	470.8	504.0	537.2	570.3
65°	461.4	406.4	351.5	296.6	332.6	368.6	404.7	440.7	476.7	512.7	548.8
67.5°	430.0	372.4	314.7	257.0	295.3	333.7	372.0	410.4	448.7	487.1	525.4
70°	397.4	337.5	277.5	217.5	257.8	298.1	338.4	378.7	419.1	459.4	499.7
72.5°	365.8	304.1	242.5	180.9	222.5	264.2	305.8	347.4	389.1	430.7	472.3
75°	333.8	271.3	208.8	146.3	188.7	231.1	273.5	315.9	358.3	400.7	443.1
77.5°	302.5	239.9	177.3	114.7	157.2	199.7	242.2	284.7	327.3	369.8	412.3
80°	270.9	208.9	147.0	85.0	127.1	169.2	211.2	253.3	295.4	337.5	379.5
82.5°	239.6	179.1	118.7	58.3	99.4	140.5	181.6	222.7	263.7	304.8	345.9
85°	209.6	151.2	92.9	34.6	74.8	115.0	155.2	195.4	235.6	275.8	316.0
87.5°	180.6	124.7	68.8	12.9	51.2	89.6	127.9	166.2	204.6	242.9	281.2
90°	157.2	104.8	52.4	0.0	36.0	72.1	108.1	144.1	180.2	216.2	252.2
92.5°	146.0	97.3	48.7	0.0	33.8	67.7	101.5	135.3	169.2	203.0	236.8
95°	135.1	90.1	45.0	0.0	31.1	62.2	93.3	124.4	155.4	186.5	217.6
97.5°	124.2	82.8	41.4	0.0	28.8	57.6	86.3	115.1	143.9	172.7	201.4
100°	114.3	76.2	38.1	0.0	26.4	52.7	79.1	105.5	131.8	158.2	184.6
102.5°	104.1	69.4	34.7	0.0	24.1	48.1	72.2	96.2	120.3	144.3	168.4
105°	94.9	63.3	31.6	0.0	22.1	44.2	66.2	88.3	110.4	132.5	154.5
107.5°	86.7	57.8	28.9	0.0	20.2	40.4	60.6	80.8	101.1	121.3	141.5
110°	78.4	52.3	26.1	0.0	18.3	36.7	55.0	73.4	91.7	110.1	128.4



TEST NUMBER: P201351

CATALOG NUMBER: 4LBLED-LD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	70.2	46.8	23.4	0.0	16.6	33.2	49.8	66.4	82.9	99.5	116.1
115°	63.9	42.6	21.3	0.0	14.8	29.7	44.5	59.3	74.2	89.0	103.8
117.5°	58.0	38.7	19.3	0.0	13.3	26.6	39.9	53.2	66.4	79.7	93.0
120°	52.7	35.2	17.6	0.0	12.0	24.0	35.9	47.9	59.9	71.9	83.8
122.5°	47.5	31.6	15.8	0.0	10.8	21.5	32.3	43.1	53.8	64.6	75.4
125°	42.2	28.1	14.1	0.0	9.4	18.9	28.3	37.8	47.2	56.7	66.1
127.5°	37.6	25.0	12.5	0.0	8.1	16.3	24.4	32.5	40.7	48.8	56.9
130°	32.6	21.8	10.9	0.0	6.8	13.6	20.4	27.2	34.1	40.9	47.7
132.5°	28.3	18.9	9.4	0.0	5.6	11.2	16.8	22.4	28.0	33.6	39.2
135°	23.7	15.8	7.9	0.0	4.6	9.2	13.8	18.4	23.1	27.7	32.3
137.5°	19.1	12.7	6.4	0.0	3.5	7.0	10.5	14.0	17.6	21.1	24.6
140°	14.8	9.9	4.9	0.0	2.5	5.0	7.6	10.1	12.6	15.1	17.7
142.5°	11.2	7.5	3.7	0.0	1.8	3.5	5.3	7.0	8.8	10.5	12.3
145°	8.6	5.7	2.9	0.0	1.2	2.4	3.6	4.8	6.1	7.3	8.5
147.5°	6.3	4.2	2.1	0.0	0.9	1.8	2.6	3.5	4.4	5.3	6.1
150°	4.6	3.1	1.5	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.6
152.5°	3.3	2.2	1.1	0.0	0.5	1.1	1.6	2.2	2.7	3.3	3.8
155°	2.3	1.5	0.8	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.3
157.5°	1.3	0.9	0.4	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6
160°	0.7	0.4	0.2	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8
162.5°	0.3	0.2	0.1	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: P201351

CATALOG NUMBER: 4LBLED-LD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1
2.5°	1199.6	1197.2	1196.8	1196.3	1195.9	1195.4	1195.0	1194.5	1194.1	1193.6	1193.2
5°	1189.3	1186.3	1185.4	1184.5	1183.7	1182.8	1181.9	1181.0	1180.2	1179.3	1178.4
7.5°	1175.0	1171.5	1170.5	1169.5	1168.5	1167.5	1166.6	1165.6	1164.6	1163.6	1162.6
10°	1158.7	1154.7	1153.8	1152.9	1152.1	1151.2	1150.3	1149.4	1148.6	1147.7	1146.8
12.5°	1139.0	1134.9	1134.1	1133.4	1132.6	1131.8	1131.1	1130.3	1129.5	1128.8	1128.0
15°	1116.5	1112.2	1112.1	1112.0	1111.9	1111.8	1111.6	1111.5	1111.4	1111.3	1111.2
17.5°	1091.7	1087.5	1088.2	1088.8	1089.5	1090.1	1090.8	1091.4	1092.1	1092.7	1093.4
20°	1063.9	1059.8	1061.7	1063.5	1065.4	1067.3	1069.1	1071.0	1072.9	1074.7	1076.6
22.5°	1033.8	1030.1	1034.1	1038.0	1042.0	1045.9	1049.9	1053.8	1057.8	1061.7	1065.7
25°	1002.7	999.5	1006.4	1013.3	1020.3	1027.2	1034.1	1041.0	1048.0	1054.9	1061.8
27.5°	966.8	963.9	974.8	985.7	996.5	1007.4	1018.3	1029.2	1040.0	1050.9	1061.8
30°	934.0	932.2	946.6	961.0	975.4	989.8	1004.2	1018.6	1033.0	1047.4	1061.8
32.5°	899.2	898.6	916.7	934.9	953.0	971.1	989.3	1007.4	1025.5	1043.7	1061.8
35°	866.0	867.0	888.5	910.1	931.6	953.1	974.7	996.2	1017.7	1039.3	1060.8
37.5°	833.6	836.4	861.4	886.5	911.5	936.6	961.6	986.7	1011.7	1036.8	1061.8
40°	804.5	809.7	838.1	866.6	895.0	923.5	951.9	980.4	1008.8	1037.3	1065.7
42.5°	777.9	785.9	817.9	849.8	881.8	913.8	945.7	977.7	1009.7	1041.6	1073.6
45°	753.7	765.2	800.7	836.2	871.6	907.1	942.6	978.1	1013.5	1049.0	1084.5
47.5°	728.9	743.4	783.1	822.7	862.4	902.0	941.7	981.3	1021.0	1060.6	1100.3
50°	705.2	722.7	767.0	811.2	855.5	899.8	944.0	988.3	1032.6	1076.8	1121.1
52.5°	683.2	703.9	753.1	802.3	851.5	900.7	950.0	999.2	1048.4	1097.6	1146.8
55°	662.2	686.1	740.8	795.5	850.2	904.9	959.6	1014.3	1069.0	1123.7	1178.4
57.5°	641.2	668.3	729.0	789.8	850.5	911.3	972.0	1032.8	1093.5	1154.3	1215.0
60°	622.4	652.5	719.6	786.7	853.8	920.9	988.1	1055.2	1122.3	1189.4	1256.5
62.5°	603.5	636.7	710.1	783.4	856.8	930.2	1003.5	1076.9	1150.3	1223.6	1297.0
65°	584.8	620.8	700.1	779.4	858.7	938.0	1017.4	1096.7	1176.0	1255.3	1334.6
67.5°	563.8	602.1	686.6	771.0	855.5	940.0	1024.4	1108.9	1193.4	1277.8	1362.3
70°	540.0	580.3	668.4	756.5	844.6	932.7	1020.8	1108.9	1197.0	1285.1	1373.2
72.5°	514.0	555.6	645.2	734.9	824.5	914.1	1003.8	1093.4	1183.0	1272.7	1362.3
75°	485.5	527.9	616.7	705.4	794.2	882.9	971.7	1060.4	1149.2	1237.9	1326.7
77.5°	454.8	497.3	582.8	668.2	753.7	839.1	924.6	1010.0	1095.5	1180.9	1266.4
80°	421.6	463.7	544.2	624.7	705.2	785.7	866.3	946.8	1027.3	1107.8	1188.3
82.5°	387.0	428.1	502.5	576.8	651.2	725.5	799.9	874.2	948.6	1022.9	1097.3
85°	356.2	396.4	463.6	530.9	598.1	665.3	732.6	799.8	867.0	934.3	1001.5
87.5°	319.6	357.9	418.6	479.4	540.1	600.9	661.6	722.4	783.1	843.9	904.6
90°	288.3	324.3	378.9	433.5	488.1	542.7	597.2	651.8	706.4	761.0	815.6
92.5°	270.7	304.5	353.4	402.3	451.1	500.0	548.9	597.8	646.6	695.5	744.4
95°	248.7	279.8	324.9	370.1	415.2	460.4	505.5	550.7	595.8	641.0	686.1
97.5°	230.2	259.0	300.9	342.7	384.6	426.4	468.3	510.1	552.0	593.8	635.7
100°	210.9	237.3	276.7	316.2	355.6	395.0	434.5	473.9	513.3	552.8	592.2
102.5°	192.4	216.5	254.3	292.1	329.9	367.7	405.4	443.2	481.0	518.8	556.6
105°	176.6	198.7	234.7	270.8	306.8	342.8	378.9	414.9	450.9	487.0	523.0
107.5°	161.7	181.9	216.5	251.1	285.7	320.3	354.9	389.5	424.1	458.7	493.3
110°	146.8	165.1	198.5	231.9	265.3	298.7	332.0	365.4	398.8	432.2	465.6



TEST NUMBER: P201351

CATALOG NUMBER: 4LBLED-LD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	132.7	149.3	181.3	213.2	245.2	277.2	309.1	341.1	373.1	405.0	437.0
115°	118.7	133.5	164.1	194.8	225.4	256.1	286.7	317.4	348.0	378.7	409.3
117.5°	106.3	119.6	148.6	177.6	206.6	235.6	264.6	293.6	322.6	351.6	380.6
120°	95.8	107.8	134.9	162.0	189.2	216.3	243.4	270.5	297.7	324.8	351.9
122.5°	86.1	96.9	121.9	147.0	172.0	197.1	222.1	247.2	272.2	297.3	322.3
125°	75.6	85.0	108.1	131.1	154.2	177.3	200.3	223.4	246.5	269.5	292.6
127.5°	65.1	73.2	94.1	114.9	135.8	156.7	177.5	198.4	219.3	240.1	261.0
130°	54.5	61.3	79.1	96.9	114.7	132.5	150.2	168.0	185.8	203.6	221.4
132.5°	44.8	50.4	65.6	80.7	95.9	111.0	126.2	141.3	156.5	171.6	186.8
135°	36.9	41.5	54.7	67.9	81.1	94.3	107.4	120.6	133.8	147.0	160.2
137.5°	28.1	31.6	43.1	54.7	66.2	77.7	89.3	100.8	112.3	123.9	135.4
140°	20.2	22.7	32.7	42.7	52.7	62.7	72.7	82.7	92.7	102.7	112.7
142.5°	14.0	15.8	24.4	32.9	41.5	50.1	58.6	67.2	75.8	84.3	92.9
145°	9.7	10.9	17.9	24.9	32.0	39.0	46.0	53.0	60.1	67.1	74.1
147.5°	7.0	7.9	13.5	19.1	24.7	30.3	35.9	41.5	47.1	52.7	58.3
150°	5.2	5.9	10.2	14.5	18.8	23.1	27.3	31.6	35.9	40.2	44.5
152.5°	4.4	4.9	8.0	11.1	14.1	17.2	20.3	23.4	26.4	29.5	32.6
155°	2.7	3.0	5.0	7.0	8.9	10.9	12.9	14.9	16.8	18.8	20.8
157.5°	1.8	2.0	3.1	4.2	5.3	6.4	7.5	8.6	9.7	10.8	11.9
160°	0.9	1.0	1.5	2.1	2.6	3.2	3.7	4.3	4.8	5.4	5.9
162.5°	0.0	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.3	2.7	3.0
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: P201351

CATALOG NUMBER: 4LBLELD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1
2.5°	1192.2	1191.2	1190.2	1189.2	1188.3	1187.3	1186.3	1185.3	1184.3	1183.2	1182.1
5°	1177.3	1176.2	1175.1	1174.0	1172.9	1171.8	1170.7	1169.6	1168.5	1168.1	1167.6
7.5°	1161.8	1161.1	1160.3	1159.5	1158.8	1158.0	1157.2	1156.5	1155.7	1155.4	1155.0
10°	1146.4	1145.9	1145.5	1145.0	1144.6	1144.1	1143.7	1143.2	1142.8	1142.4	1141.9
12.5°	1128.1	1128.2	1128.3	1128.4	1128.6	1128.7	1128.8	1128.9	1129.0	1129.0	1129.0
15°	1112.1	1113.0	1113.8	1114.7	1115.6	1116.5	1117.3	1118.2	1119.1	1119.8	1120.4
17.5°	1095.9	1098.4	1101.0	1103.5	1106.0	1108.5	1111.1	1113.6	1116.1	1117.6	1119.2
20°	1081.9	1087.1	1092.4	1097.7	1102.9	1108.2	1113.5	1118.7	1124.0	1126.5	1129.1
22.5°	1073.6	1081.5	1089.4	1097.3	1105.3	1113.2	1121.1	1129.0	1136.9	1139.9	1142.8
25°	1071.6	1081.3	1091.1	1100.9	1110.6	1120.4	1130.2	1139.9	1149.7	1153.1	1156.5
27.5°	1073.0	1084.2	1095.4	1106.6	1117.8	1129.0	1140.2	1151.4	1162.6	1166.7	1170.7
30°	1074.5	1087.3	1100.0	1112.7	1125.5	1138.2	1150.9	1163.7	1176.4	1181.3	1186.3
32.5°	1076.4	1091.0	1105.6	1120.2	1134.8	1149.4	1164.0	1178.6	1193.2	1199.0	1204.8
35°	1077.8	1094.8	1111.9	1128.9	1145.9	1162.9	1180.0	1197.0	1214.0	1221.1	1228.3
37.5°	1081.6	1101.3	1121.1	1140.9	1160.6	1180.4	1200.2	1219.9	1239.7	1248.5	1257.3
40°	1088.8	1111.8	1134.9	1158.0	1181.0	1204.1	1227.2	1250.2	1273.3	1283.8	1294.4
42.5°	1100.4	1127.2	1154.0	1180.8	1207.6	1234.4	1261.2	1288.0	1314.8	1327.2	1339.6
45°	1115.9	1147.3	1178.7	1210.1	1241.6	1273.0	1304.4	1335.8	1367.2	1381.6	1396.0
47.5°	1136.7	1173.0	1209.4	1245.7	1282.1	1318.4	1354.8	1391.1	1427.5	1444.3	1461.1
50°	1162.9	1204.8	1246.6	1288.5	1330.3	1372.2	1414.0	1455.9	1497.7	1516.9	1536.1
52.5°	1194.8	1242.8	1290.8	1338.8	1386.8	1434.8	1482.8	1530.8	1578.8	1600.3	1621.9
55°	1232.7	1286.9	1341.2	1395.5	1449.7	1504.0	1558.3	1612.5	1666.8	1690.3	1713.8
57.5°	1275.3	1335.6	1395.9	1456.2	1516.5	1576.8	1637.1	1697.4	1757.7	1782.7	1807.8
60°	1322.3	1388.1	1453.9	1519.7	1585.5	1651.3	1717.1	1782.9	1848.7	1874.4	1900.1
62.5°	1367.3	1437.6	1507.9	1578.2	1648.5	1718.8	1789.1	1859.4	1929.7	1955.4	1981.1
65°	1407.9	1481.1	1554.4	1627.7	1700.9	1774.2	1847.5	1920.7	1994.0	2019.7	2045.4
67.5°	1437.1	1511.9	1586.7	1661.5	1736.3	1811.1	1885.9	1960.7	2035.5	2059.9	2084.3
70°	1447.7	1522.1	1596.6	1671.1	1745.5	1820.0	1894.5	1968.9	2043.4	2066.6	2089.8
72.5°	1434.8	1507.3	1579.8	1652.3	1724.8	1797.3	1869.8	1942.3	2014.8	2036.3	2057.8
75°	1395.6	1464.5	1533.3	1602.2	1671.1	1740.0	1808.8	1877.7	1946.6	1966.5	1986.4
77.5°	1330.2	1394.0	1457.9	1521.7	1585.5	1649.3	1713.2	1777.0	1840.8	1859.5	1878.1
80°	1246.1	1303.9	1361.6	1419.4	1477.2	1535.0	1592.7	1650.5	1708.3	1725.4	1742.6
82.5°	1148.9	1200.6	1252.2	1303.8	1355.5	1407.1	1458.7	1510.4	1562.0	1577.3	1592.5
85°	1047.2	1092.9	1138.6	1184.3	1229.9	1275.6	1321.3	1367.0	1412.7	1426.4	1440.2
87.5°	944.5	984.3	1024.2	1064.1	1103.9	1143.8	1183.7	1223.5	1263.4	1275.8	1288.2
90°	850.9	886.1	921.4	956.6	991.9	1027.1	1062.4	1097.6	1132.9	1144.2	1155.5
92.5°	776.1	807.9	839.6	871.4	903.1	934.9	966.6	998.4	1030.1	1040.4	1050.7
95°	715.2	744.3	773.4	802.5	831.7	860.8	889.9	919.0	948.1	957.8	967.4
97.5°	663.2	690.6	718.1	745.5	773.0	800.4	827.9	855.3	882.8	891.9	901.0
100°	618.7	645.1	671.6	698.1	724.5	751.0	777.5	803.9	830.4	839.2	848.0
102.5°	582.3	608.0	633.7	659.4	685.1	710.8	736.5	762.2	787.9	796.5	805.0
105°	548.5	574.0	599.4	624.9	650.4	675.9	701.3	726.8	752.3	760.7	769.0
107.5°	518.6	543.8	569.1	594.4	619.6	644.9	670.2	695.4	720.7	729.2	737.6
110°	490.8	515.9	541.1	566.2	591.4	616.5	641.7	666.8	692.0	700.6	709.1



TEST NUMBER: P201351

CATALOG NUMBER: 4LBLEDD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	462.2	487.3	512.5	537.6	562.8	587.9	613.1	638.2	663.4	672.0	680.5
115°	434.2	459.2	484.1	509.0	534.0	558.9	583.8	608.8	633.7	642.6	651.5
117.5°	405.2	429.8	454.4	479.0	503.7	528.3	552.9	577.5	602.1	611.2	620.3
120°	375.9	399.8	423.8	447.7	471.7	495.6	519.6	543.5	567.5	576.7	585.9
122.5°	345.1	368.0	390.8	413.7	436.5	459.4	482.2	505.1	527.9	537.2	546.6
125°	314.1	335.7	357.2	378.7	400.3	421.8	443.3	464.9	486.4	495.5	504.6
127.5°	281.2	301.4	321.6	341.8	362.1	382.3	402.5	422.7	442.9	451.6	460.3
130°	241.3	261.2	281.1	301.0	320.8	340.7	360.6	380.5	400.4	408.3	416.2
132.5°	205.8	224.8	243.8	262.8	281.9	300.9	319.9	338.9	357.9	365.1	372.4
135°	177.4	194.7	211.9	229.2	246.4	263.7	280.9	298.2	315.4	322.1	328.8
137.5°	150.0	164.6	179.2	193.8	208.5	223.1	237.7	252.3	266.9	273.7	280.5
140°	124.3	136.0	147.6	159.3	170.9	182.6	194.2	205.9	217.5	224.3	231.1
142.5°	102.8	112.7	122.6	132.5	142.3	152.2	162.1	172.0	181.9	187.6	193.3
145°	82.5	90.8	99.2	107.5	115.9	124.2	132.6	140.9	149.3	154.8	160.3
147.5°	65.2	72.1	79.1	86.0	92.9	99.8	106.8	113.7	120.6	125.9	131.2
150°	50.1	55.7	61.3	66.9	72.5	78.1	83.7	89.3	94.9	99.8	104.8
152.5°	37.0	41.4	45.8	50.2	54.6	59.0	63.4	67.8	72.2	76.8	81.4
155°	24.4	28.0	31.7	35.3	38.9	42.5	46.2	49.8	53.4	57.5	61.5
157.5°	14.8	17.6	20.5	23.3	26.2	29.0	31.9	34.7	37.6	41.1	44.6
160°	7.8	9.6	11.5	13.4	15.2	17.1	19.0	20.8	22.7	25.8	28.9
162.5°	3.8	4.5	5.3	6.1	6.8	7.6	8.4	9.1	9.9	12.3	14.7
165°	0.3	0.7	1.0	1.3	1.7	2.0	2.3	2.7	3.0	4.6	6.3
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: P201351

CATALOG NUMBER: 4LBLEDD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1
2.5°	1181.0	1179.9	1178.9	1177.8	1176.7	1175.6	1174.5	1175.4	1176.3	1177.1	1178.0
5°	1167.2	1166.8	1166.3	1165.9	1165.5	1165.0	1164.6	1164.7	1164.8	1164.9	1165.0
7.5°	1154.7	1154.4	1154.0	1153.7	1153.4	1153.0	1152.7	1152.7	1152.7	1152.7	1152.7
10°	1141.5	1141.1	1140.6	1140.2	1139.8	1139.3	1138.9	1138.7	1138.5	1138.2	1138.0
12.5°	1129.0	1129.0	1129.0	1129.0	1129.0	1129.0	1129.0	1128.4	1127.9	1127.3	1126.8
15°	1121.1	1121.7	1122.4	1123.0	1123.7	1124.3	1125.0	1124.1	1123.2	1122.4	1121.5
17.5°	1120.7	1122.3	1123.8	1125.4	1126.9	1128.5	1130.0	1128.2	1126.5	1124.7	1123.0
20°	1131.6	1134.1	1136.7	1139.2	1141.7	1144.3	1146.8	1143.7	1140.6	1137.6	1134.5
22.5°	1145.8	1148.8	1151.7	1154.7	1157.7	1160.6	1163.6	1159.9	1156.1	1152.4	1148.7
25°	1159.9	1163.3	1166.8	1170.2	1173.6	1177.0	1180.4	1176.3	1172.3	1168.2	1164.1
27.5°	1174.8	1178.9	1182.9	1187.0	1191.1	1195.1	1199.2	1194.5	1189.8	1185.0	1180.3
30°	1191.2	1196.2	1201.1	1206.1	1211.0	1216.0	1220.9	1215.4	1209.9	1204.4	1198.9
32.5°	1210.7	1216.5	1222.3	1228.1	1234.0	1239.8	1245.6	1239.3	1233.1	1226.8	1220.6
35°	1235.4	1242.6	1249.7	1256.9	1264.0	1271.2	1278.3	1270.8	1263.3	1255.9	1248.4
37.5°	1266.1	1274.9	1283.6	1292.4	1301.2	1310.0	1318.8	1309.9	1301.0	1292.1	1283.2
40°	1304.9	1315.5	1326.0	1336.6	1347.1	1357.7	1368.2	1357.7	1347.1	1336.6	1326.0
42.5°	1352.0	1364.4	1376.9	1389.3	1401.7	1414.1	1426.5	1414.4	1402.3	1390.3	1378.2
45°	1410.4	1424.8	1439.1	1453.5	1467.9	1482.3	1496.7	1482.6	1468.6	1454.5	1440.5
47.5°	1477.9	1494.7	1511.6	1528.4	1545.2	1562.0	1578.8	1563.0	1547.2	1531.3	1515.5
50°	1555.4	1574.6	1593.8	1613.0	1632.3	1651.5	1670.7	1652.7	1634.7	1616.7	1598.7
52.5°	1643.4	1664.9	1686.5	1708.0	1729.5	1751.1	1772.6	1752.6	1732.6	1712.6	1692.6
55°	1737.3	1760.8	1784.3	1807.8	1831.3	1854.8	1878.3	1856.8	1835.3	1813.7	1792.2
57.5°	1832.8	1857.9	1882.9	1908.0	1933.0	1958.1	1983.1	1960.5	1937.9	1915.2	1892.6
60°	1925.8	1951.5	1977.2	2002.9	2028.6	2054.3	2080.0	2056.7	2033.4	2010.1	1986.8
62.5°	2006.8	2032.5	2058.3	2084.0	2109.7	2135.4	2161.1	2138.1	2115.2	2092.2	2069.3
65°	2071.1	2096.8	2122.5	2148.2	2173.9	2199.6	2225.3	2202.8	2180.3	2157.8	2135.3
67.5°	2108.7	2133.1	2157.4	2181.8	2206.2	2230.6	2255.0	2233.7	2212.4	2191.1	2169.8
70°	2112.9	2136.1	2159.3	2182.5	2205.6	2228.8	2252.0	2231.8	2211.6	2191.4	2171.2
72.5°	2079.4	2100.9	2122.4	2143.9	2165.5	2187.0	2208.5	2189.4	2170.3	2151.2	2132.1
75°	2006.2	2026.1	2046.0	2065.9	2085.7	2105.6	2125.5	2107.5	2089.5	2071.5	2053.5
77.5°	1896.8	1915.5	1934.1	1952.8	1971.5	1990.1	2008.8	1991.8	1974.8	1957.7	1940.7
80°	1759.7	1776.8	1794.0	1811.1	1828.2	1845.4	1862.5	1846.4	1830.2	1814.1	1797.9
82.5°	1607.8	1623.1	1638.3	1653.6	1668.9	1684.1	1699.4	1686.0	1672.6	1659.2	1645.8
85°	1453.9	1467.6	1481.4	1495.1	1508.8	1522.6	1536.3	1523.8	1511.3	1498.7	1486.2
87.5°	1300.6	1313.0	1325.5	1337.9	1350.3	1362.7	1375.1	1363.6	1352.0	1340.5	1329.0
90°	1166.9	1178.2	1189.5	1200.8	1212.2	1223.5	1234.8	1224.1	1213.5	1202.8	1192.2
92.5°	1061.1	1071.4	1081.7	1092.0	1102.4	1112.7	1123.0	1113.2	1103.5	1093.7	1083.9
95°	977.1	986.8	996.4	1006.1	1015.8	1025.4	1035.1	1026.1	1017.1	1008.1	999.1
97.5°	910.2	919.3	928.4	937.5	946.7	955.8	964.9	956.3	947.8	939.2	930.6
100°	856.8	865.6	874.3	883.1	891.9	900.7	909.5	901.2	892.8	884.5	876.1
102.5°	813.6	822.2	830.7	839.3	847.9	856.4	865.0	856.8	848.5	840.3	832.1
105°	777.4	785.7	794.1	802.4	810.8	819.1	827.5	819.6	811.7	803.8	795.9
107.5°	746.1	754.5	763.0	771.4	779.9	788.3	796.8	788.8	780.8	772.7	764.7
110°	717.7	726.3	734.8	743.4	752.0	760.5	769.1	761.0	752.9	744.7	736.6



TEST NUMBER: P201351

CATALOG NUMBER: 4LBLED-LD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	689.1	697.7	706.2	714.8	723.4	731.9	740.5	732.4	724.2	716.1	708.0
115°	660.4	669.3	678.2	687.1	696.0	704.9	713.8	705.4	697.1	688.7	680.4
117.5°	629.4	638.5	647.7	656.8	665.9	675.0	684.1	675.6	667.2	658.7	650.3
120°	595.2	604.4	613.6	622.8	632.1	641.3	650.5	642.0	633.6	625.1	616.7
122.5°	555.9	565.2	574.6	583.9	593.2	602.6	611.9	603.4	595.0	586.5	578.1
125°	513.7	522.8	532.0	541.1	550.2	559.3	568.4	560.3	552.2	544.0	535.9
127.5°	468.9	477.6	486.3	495.0	503.6	512.3	521.0	513.4	505.8	498.3	490.7
130°	424.1	432.0	440.0	447.9	455.8	463.7	471.6	464.7	457.8	450.8	443.9
132.5°	379.6	386.9	394.1	401.4	408.6	415.9	423.1	417.0	410.8	404.7	398.5
135°	335.5	342.2	348.9	355.6	362.3	369.0	375.7	370.2	364.7	359.2	353.7
137.5°	287.3	294.1	301.0	307.8	314.6	321.4	328.2	322.9	317.7	312.4	307.1
140°	237.9	244.7	251.6	258.4	265.2	272.0	278.8	274.2	269.6	265.0	260.4
142.5°	199.0	204.7	210.5	216.2	221.9	227.6	233.3	230.0	226.7	223.4	220.1
145°	165.8	171.3	176.7	182.2	187.7	193.2	198.7	196.1	193.4	190.8	188.2
147.5°	136.4	141.7	147.0	152.3	157.5	162.8	168.1	165.9	163.7	161.5	159.3
150°	109.7	114.7	119.6	124.6	129.5	134.5	139.4	137.8	136.1	134.5	132.8
152.5°	86.0	90.6	95.3	99.9	104.5	109.1	113.7	112.3	110.8	109.4	108.0
155°	65.6	69.7	73.7	77.8	81.9	85.9	90.0	89.0	88.0	87.0	86.0
157.5°	48.1	51.6	55.2	58.7	62.2	65.7	69.2	68.2	67.2	66.2	65.2
160°	31.9	35.0	38.1	41.2	44.2	47.3	50.4	49.6	48.9	48.1	47.3
162.5°	17.1	19.5	22.0	24.4	26.8	29.2	31.6	31.1	30.5	30.0	29.4
165°	7.9	9.6	11.2	12.9	14.5	16.2	17.8	17.7	17.6	17.5	17.4
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: P201351

CATALOG NUMBER: 4LBLEDD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1
2.5°	1178.9	1179.8	1180.6	1181.5	1182.4	1183.8	1185.2	1186.7	1188.1	1189.5	1190.9
5°	1165.2	1165.3	1165.4	1165.5	1165.6	1167.4	1169.1	1170.9	1172.6	1174.4	1176.1
7.5°	1152.7	1152.7	1152.7	1152.7	1152.7	1154.3	1156.0	1157.6	1159.3	1160.9	1162.6
10°	1137.8	1137.6	1137.3	1137.1	1136.9	1138.7	1140.4	1142.2	1143.9	1145.7	1147.4
12.5°	1126.2	1125.7	1125.1	1124.6	1124.0	1125.4	1126.9	1128.3	1129.7	1131.2	1132.6
15°	1120.6	1119.7	1118.9	1118.0	1117.1	1117.3	1117.5	1117.8	1118.0	1118.2	1118.4
17.5°	1121.2	1119.5	1117.7	1116.0	1114.2	1112.8	1111.3	1109.9	1108.5	1107.0	1105.6
20°	1131.4	1128.3	1125.3	1122.2	1119.1	1115.3	1111.4	1107.6	1103.7	1099.9	1096.0
22.5°	1144.9	1141.2	1137.5	1133.7	1130.0	1123.6	1117.2	1110.9	1104.5	1098.1	1091.7
25°	1160.1	1156.0	1151.9	1147.9	1143.8	1135.2	1126.7	1118.1	1109.5	1101.0	1092.4
27.5°	1175.6	1170.9	1166.1	1161.4	1156.7	1146.8	1136.9	1127.0	1117.1	1107.3	1097.4
30°	1193.5	1188.0	1182.5	1177.0	1171.5	1159.7	1148.0	1136.2	1124.5	1112.7	1101.0
32.5°	1214.3	1208.1	1201.8	1195.6	1189.3	1175.3	1161.4	1147.4	1133.5	1119.5	1105.6
35°	1240.9	1233.4	1226.0	1218.5	1211.0	1194.7	1178.5	1162.2	1146.0	1129.7	1113.5
37.5°	1274.3	1265.4	1256.5	1247.6	1238.7	1219.8	1200.9	1182.0	1163.1	1144.3	1125.4
40°	1315.5	1304.9	1294.4	1283.8	1273.3	1251.2	1229.1	1207.1	1185.0	1162.9	1140.8
42.5°	1366.1	1354.0	1342.0	1329.9	1317.8	1291.8	1265.7	1239.7	1213.7	1187.6	1161.6
45°	1426.4	1412.4	1398.3	1384.3	1370.2	1339.9	1309.6	1279.2	1248.9	1218.6	1188.3
47.5°	1499.7	1483.9	1468.0	1452.2	1436.4	1400.8	1365.2	1329.6	1294.0	1258.5	1222.9
50°	1580.6	1562.6	1544.6	1526.6	1508.6	1467.6	1426.7	1385.7	1344.7	1303.8	1262.8
52.5°	1672.6	1652.6	1632.6	1612.6	1592.6	1545.6	1498.6	1451.6	1404.6	1357.5	1310.5
55°	1770.7	1749.2	1727.6	1706.1	1684.6	1631.3	1578.0	1524.8	1471.5	1418.2	1364.9
57.5°	1870.0	1847.4	1824.7	1802.1	1779.5	1720.2	1660.9	1601.5	1542.2	1482.9	1423.6
60°	1963.6	1940.3	1917.0	1893.7	1870.4	1805.5	1740.6	1675.7	1610.8	1545.8	1480.9
62.5°	2046.3	2023.4	2000.4	1977.5	1954.5	1885.6	1816.7	1747.9	1679.0	1610.1	1541.2
65°	2112.7	2090.2	2067.7	2045.2	2022.7	1950.6	1878.6	1806.5	1734.5	1662.4	1590.4
67.5°	2148.4	2127.1	2105.8	2084.5	2063.2	1989.5	1915.8	1842.1	1768.4	1694.7	1621.0
70°	2150.9	2130.7	2110.5	2090.3	2070.1	1996.9	1923.8	1850.6	1777.5	1704.3	1631.2
72.5°	2112.9	2093.8	2074.7	2055.6	2036.5	1965.9	1895.2	1824.6	1754.0	1683.3	1612.7
75°	2035.4	2017.4	1999.4	1981.4	1963.4	1896.7	1830.0	1763.4	1696.7	1630.0	1563.3
77.5°	1923.7	1906.7	1889.6	1872.6	1855.6	1794.0	1732.4	1670.7	1609.1	1547.5	1485.9
80°	1781.8	1765.6	1749.5	1733.3	1717.2	1661.5	1605.8	1550.1	1494.4	1438.8	1383.1
82.5°	1632.4	1619.0	1605.6	1592.2	1578.8	1527.8	1476.9	1425.9	1374.9	1324.0	1273.0
85°	1473.7	1461.2	1448.6	1436.1	1423.6	1378.6	1333.5	1288.5	1243.5	1198.4	1153.4
87.5°	1317.4	1305.9	1294.4	1282.8	1271.3	1232.0	1192.7	1153.3	1114.0	1074.7	1035.4
90°	1181.5	1170.9	1160.2	1149.6	1138.9	1104.3	1069.7	1035.1	1000.5	965.9	931.3
92.5°	1074.2	1064.4	1054.6	1044.9	1035.1	1004.2	973.4	942.5	911.6	880.8	849.9
95°	990.0	981.0	972.0	963.0	954.0	925.7	897.3	869.0	840.6	812.3	783.9
97.5°	922.1	913.5	904.9	896.4	887.8	861.1	834.4	807.7	781.0	754.3	727.6
100°	867.8	859.4	851.1	842.7	834.4	808.8	783.2	757.6	732.0	706.4	680.8
102.5°	823.8	815.6	807.4	799.1	790.9	766.0	741.0	716.1	691.2	666.2	641.3
105°	787.9	780.0	772.1	764.2	756.3	731.7	707.1	682.5	657.9	633.2	608.6
107.5°	756.7	748.7	740.6	732.6	724.6	700.2	675.8	651.5	627.1	602.7	578.3
110°	728.5	720.4	712.2	704.1	696.0	671.8	647.7	623.5	599.3	575.2	551.0



TEST NUMBER: P201351

CATALOG NUMBER: 4LBLED-LD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	699.8	691.7	683.6	675.4	667.3	643.2	619.2	595.1	571.1	547.0	523.0
115°	672.0	663.7	655.3	647.0	638.6	614.7	590.7	566.8	542.8	518.9	494.9
117.5°	641.8	633.4	624.9	616.5	608.0	584.3	560.6	536.8	513.1	489.4	465.7
120°	608.2	599.8	591.3	582.9	574.4	551.1	527.8	504.5	481.2	458.0	434.7
122.5°	569.6	561.2	552.7	544.3	535.8	513.5	491.2	468.9	446.6	424.3	402.0
125°	527.8	519.7	511.5	503.4	495.3	474.2	453.1	432.0	410.9	389.9	368.8
127.5°	483.1	475.5	468.0	460.4	452.8	433.1	413.5	393.8	374.1	354.5	334.8
130°	437.0	430.1	423.1	416.2	409.3	390.6	371.9	353.3	334.6	315.9	297.2
132.5°	392.4	386.2	380.1	373.9	367.8	350.0	332.2	314.4	296.6	278.8	261.0
135°	348.2	342.7	337.2	331.7	326.2	310.5	294.8	279.1	263.4	247.7	232.0
137.5°	301.9	296.6	291.3	286.1	280.8	267.8	254.9	241.9	228.9	216.0	203.0
140°	255.7	251.1	246.5	241.9	237.3	226.8	216.2	205.7	195.1	184.6	174.0
142.5°	216.9	213.6	210.3	207.0	203.7	194.7	185.7	176.7	167.7	158.6	149.6
145°	185.5	182.9	180.3	177.6	175.0	167.2	159.4	151.6	143.8	136.0	128.2
147.5°	157.1	154.9	152.7	150.5	148.3	141.6	134.9	128.2	121.5	114.8	108.1
150°	131.2	129.5	127.9	126.2	124.6	118.8	113.0	107.1	101.3	95.5	89.7
152.5°	106.5	105.1	103.7	102.2	100.8	96.1	91.4	86.6	81.9	77.2	72.5
155°	85.1	84.1	83.1	82.1	81.1	76.9	72.7	68.6	64.4	60.2	56.0
157.5°	64.3	63.3	62.3	61.3	60.3	57.0	53.7	50.4	47.1	43.8	40.5
160°	46.6	45.8	45.0	44.3	43.5	41.0	38.5	35.9	33.4	30.9	28.4
162.5°	28.9	28.3	27.8	27.2	26.7	25.4	24.1	22.7	21.4	20.1	18.8
165°	17.2	17.1	17.0	16.9	16.8	16.1	15.5	14.8	14.2	13.5	12.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201351

CATALOG NUMBER: 4LBLELD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1
2.5°	1192.4	1193.8	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2
5°	1177.9	1179.6	1181.4	1181.7	1182.0	1182.4	1182.7	1183.0	1183.3	1183.7	1184.0
7.5°	1164.2	1165.9	1167.5	1167.7	1167.9	1168.2	1168.4	1168.6	1168.8	1169.1	1169.3
10°	1149.2	1150.9	1152.7	1152.5	1152.3	1152.0	1151.8	1151.6	1151.4	1151.1	1150.9
12.5°	1134.0	1135.5	1136.9	1136.2	1135.6	1134.9	1134.3	1133.6	1133.0	1132.3	1131.7
15°	1118.7	1118.9	1119.1	1117.9	1116.7	1115.5	1114.3	1113.0	1111.8	1110.6	1109.4
17.5°	1104.2	1102.7	1101.3	1099.2	1097.1	1095.0	1092.9	1090.9	1088.8	1086.7	1084.6
20°	1092.2	1088.3	1084.5	1081.2	1077.9	1074.6	1071.3	1068.0	1064.7	1061.4	1058.1
22.5°	1085.4	1079.0	1072.6	1067.2	1061.8	1056.5	1051.1	1045.7	1040.3	1035.0	1029.6
25°	1083.8	1075.3	1066.7	1058.5	1050.2	1042.0	1033.8	1025.5	1017.3	1009.1	1000.8
27.5°	1087.5	1077.6	1067.7	1055.6	1043.5	1031.4	1019.3	1007.3	995.2	983.1	971.0
30°	1089.2	1077.5	1065.7	1050.3	1034.9	1019.6	1004.2	988.8	973.4	958.1	942.7
32.5°	1091.6	1077.7	1063.7	1044.9	1026.1	1007.4	988.6	969.8	951.0	932.3	913.5
35°	1097.2	1081.0	1064.7	1042.2	1019.7	997.2	974.7	952.1	929.6	907.1	884.6
37.5°	1106.5	1087.6	1068.7	1042.9	1017.1	991.3	965.5	939.6	913.8	888.0	862.2
40°	1118.8	1096.7	1074.6	1045.4	1016.2	986.9	957.7	928.5	899.3	870.0	840.8
42.5°	1135.6	1109.5	1083.5	1051.0	1018.5	986.0	953.5	920.9	888.4	855.9	823.4
45°	1157.9	1127.6	1097.3	1060.9	1024.6	988.2	951.9	915.5	879.2	842.8	806.5
47.5°	1187.3	1151.7	1116.1	1075.5	1034.8	994.2	953.5	912.9	872.2	831.6	790.9
50°	1221.8	1180.9	1139.9	1094.5	1049.2	1003.8	958.4	913.1	867.7	822.3	777.0
52.5°	1263.5	1216.5	1169.5	1118.9	1068.2	1017.6	967.0	916.3	865.7	815.1	764.4
55°	1311.7	1258.4	1205.1	1148.8	1092.4	1036.1	979.7	923.4	867.0	810.7	754.3
57.5°	1364.2	1304.9	1245.6	1183.2	1120.8	1058.4	996.0	933.7	871.3	808.9	746.5
60°	1416.0	1351.1	1286.2	1217.8	1149.3	1080.9	1012.5	944.0	875.6	807.2	738.7
62.5°	1472.4	1403.5	1334.6	1259.4	1184.1	1108.9	1033.6	958.4	883.1	807.9	732.6
65°	1518.3	1446.3	1374.2	1292.9	1211.6	1130.3	1049.0	967.8	886.5	805.2	723.9
67.5°	1547.3	1473.6	1399.9	1313.9	1227.9	1141.9	1055.9	969.8	883.8	797.8	711.8
70°	1558.0	1484.9	1411.7	1322.2	1232.7	1143.1	1053.6	964.1	874.6	785.0	695.5
72.5°	1542.1	1471.4	1400.8	1309.9	1218.9	1128.0	1037.0	946.1	855.1	764.2	673.2
75°	1496.7	1430.0	1363.3	1273.3	1183.4	1093.4	1003.4	913.5	823.5	733.5	643.6
77.5°	1424.2	1362.6	1301.0	1214.6	1128.1	1041.7	955.2	868.8	782.3	695.9	609.4
80°	1327.4	1271.7	1216.0	1135.2	1054.3	973.5	892.6	811.8	730.9	650.1	569.2
82.5°	1222.0	1171.1	1120.1	1045.8	971.6	897.3	823.1	748.8	674.6	600.3	526.1
85°	1108.4	1063.3	1018.3	951.2	884.1	816.9	749.8	682.7	615.6	548.4	481.3
87.5°	996.0	956.7	917.4	857.3	797.2	737.2	677.1	617.0	556.9	496.9	436.8
90°	896.7	862.1	827.5	773.6	719.6	665.7	611.8	557.8	503.9	450.0	396.0
92.5°	819.0	788.2	757.3	708.5	659.7	611.0	562.2	513.4	464.6	415.9	367.1
95°	755.6	727.2	698.9	654.0	609.1	564.1	519.2	474.3	429.4	384.4	339.5
97.5°	700.9	674.2	647.5	605.9	564.3	522.6	481.0	439.4	397.8	356.1	314.5
100°	655.2	629.6	604.0	564.8	525.6	486.4	447.2	407.9	368.7	329.5	290.3
102.5°	616.4	591.4	566.5	529.0	491.6	454.1	416.7	379.2	341.8	304.3	266.9
105°	584.0	559.4	534.8	498.8	462.8	426.7	390.7	354.7	318.7	282.6	246.6
107.5°	554.0	529.6	505.2	470.5	435.8	401.1	366.4	331.6	296.9	262.2	227.5
110°	526.8	502.7	478.5	444.9	411.3	377.7	344.1	310.4	276.8	243.2	209.6



TEST NUMBER: P201351

CATALOG NUMBER: 4LBLED-LD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	498.9	474.9	450.8	418.5	386.2	353.9	321.6	289.4	257.1	224.8	192.5
115°	471.0	447.0	423.1	392.1	361.1	330.2	299.2	268.2	237.2	206.3	175.3
117.5°	441.9	418.2	394.5	365.1	335.6	306.2	276.7	247.3	217.8	188.4	158.9
120°	411.4	388.1	364.8	337.2	309.7	282.1	254.5	227.0	199.4	171.8	144.3
122.5°	379.7	357.4	335.1	309.6	284.1	258.7	233.2	207.7	182.2	156.8	131.3
125°	347.7	326.6	305.5	282.2	258.9	235.6	212.3	189.1	165.8	142.5	119.2
127.5°	315.1	295.5	275.8	254.6	233.4	212.2	191.0	169.8	148.6	127.4	106.2
130°	278.6	259.9	241.2	222.7	204.3	185.8	167.4	148.9	130.5	112.0	93.6
132.5°	243.2	225.4	207.6	191.9	176.2	160.5	144.8	129.0	113.3	97.6	81.9
135°	216.3	200.6	184.9	170.7	156.5	142.4	128.2	114.0	99.8	85.7	71.5
137.5°	190.0	177.1	164.1	151.2	138.4	125.5	112.7	99.8	87.0	74.1	61.3
140°	163.5	152.9	142.4	131.0	119.5	108.1	96.7	85.2	73.8	62.4	50.9
142.5°	140.6	131.6	122.6	112.4	102.2	91.9	81.7	71.5	61.3	51.0	40.8
145°	120.4	112.6	104.8	95.7	86.6	77.4	68.3	59.2	50.1	40.9	31.8
147.5°	101.4	94.7	88.0	80.3	72.6	64.9	57.2	49.6	41.9	34.2	26.5
150°	83.8	78.0	72.2	65.9	59.7	53.4	47.1	40.9	34.6	28.3	22.1
152.5°	67.7	63.0	58.3	53.4	48.4	43.5	38.5	33.6	28.6	23.7	18.7
155°	51.9	47.7	43.5	39.9	36.3	32.6	29.0	25.4	21.8	18.1	14.5
157.5°	37.2	33.9	30.6	28.2	25.8	23.4	21.0	18.5	16.1	13.7	11.3
160°	25.8	23.3	20.8	19.3	17.7	16.2	14.6	13.1	11.5	10.0	8.4
162.5°	17.4	16.1	14.8	13.7	12.6	11.5	10.4	9.3	8.2	7.1	6.0
165°	12.2	11.6	10.9	10.1	9.4	8.6	7.8	7.1	6.3	5.5	4.8
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: P201351

CATALOG NUMBER: 4LBLED-LD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1
2.5°	1195.2	1198.2	1201.1	1204.1	1207.1	1210.0	1213.0	1216.0	1218.9	1221.9	1221.4
5°	1184.3	1187.8	1191.3	1194.9	1198.4	1201.9	1205.4	1209.0	1212.5	1216.0	1216.3
7.5°	1169.5	1173.5	1177.4	1181.4	1185.3	1189.3	1193.2	1197.2	1201.1	1205.1	1206.5
10°	1150.7	1155.2	1159.7	1164.2	1168.7	1173.3	1177.8	1182.3	1186.8	1191.3	1193.6
12.5°	1131.0	1135.5	1140.0	1144.5	1149.0	1153.5	1158.0	1162.5	1167.0	1171.5	1175.0
15°	1108.2	1112.9	1117.6	1122.4	1127.1	1131.8	1136.5	1141.3	1146.0	1150.7	1155.2
17.5°	1082.5	1087.2	1091.9	1096.7	1101.4	1106.1	1110.8	1115.6	1120.3	1125.0	1130.6
20°	1054.8	1059.1	1063.4	1067.7	1072.0	1076.2	1080.5	1084.8	1089.1	1093.4	1100.5
22.5°	1024.2	1028.2	1032.1	1036.1	1040.0	1044.0	1047.9	1051.9	1055.8	1059.8	1068.3
25°	992.6	996.3	1000.1	1003.8	1007.5	1011.3	1015.0	1018.7	1022.5	1026.2	1035.8
27.5°	958.9	961.7	964.4	967.2	969.9	972.7	975.4	978.2	980.9	983.7	995.2
30°	927.3	928.9	930.6	932.2	933.9	935.5	937.2	938.8	940.5	942.1	955.3
32.5°	894.7	895.5	896.2	897.0	897.8	898.5	899.3	900.1	900.8	901.6	916.1
35°	862.1	861.3	860.5	859.8	859.0	858.2	857.4	856.7	855.9	855.1	871.7
37.5°	836.4	833.2	830.0	826.8	823.6	820.5	817.3	814.1	810.9	807.7	826.8
40°	811.6	805.8	800.0	794.1	788.3	782.5	776.7	770.8	765.0	759.2	781.3
42.5°	790.9	781.9	772.9	763.9	754.9	745.8	736.8	727.8	718.8	709.8	735.0
45°	770.1	757.9	745.7	733.5	721.3	709.2	697.0	684.8	672.6	660.4	688.7
47.5°	750.3	734.9	719.5	704.2	688.8	673.4	658.0	642.7	627.3	611.9	643.3
50°	731.6	712.9	694.2	675.6	656.9	638.2	619.5	600.9	582.2	563.5	598.0
52.5°	713.8	691.8	669.8	647.9	625.9	603.9	581.9	560.0	538.0	516.0	553.8
55°	698.0	672.6	647.2	621.9	596.5	571.1	545.7	520.4	495.0	469.6	510.7
57.5°	684.1	655.2	626.3	597.4	568.5	539.7	510.8	481.9	453.0	424.1	468.4
60°	670.3	638.1	605.9	573.7	541.5	509.4	477.2	445.0	412.8	380.6	428.2
62.5°	657.4	621.9	586.4	551.0	515.5	480.0	444.5	409.1	373.6	338.1	388.8
65°	642.6	604.3	565.9	527.6	489.3	450.9	412.6	374.3	335.9	297.6	351.3
67.5°	625.8	584.9	544.1	503.2	462.3	421.5	380.6	339.7	298.9	258.0	314.4
70°	606.0	562.8	519.7	476.5	433.3	390.2	347.0	303.8	260.7	217.5	276.2
72.5°	582.3	537.8	493.3	448.8	404.3	359.9	315.4	270.9	226.4	181.9	242.0
75°	553.6	508.6	463.5	418.5	373.5	328.4	283.4	238.4	193.3	148.3	209.0
77.5°	523.0	477.9	432.7	387.6	342.4	297.3	252.1	207.0	161.8	116.7	177.4
80°	488.4	443.8	399.2	354.6	310.0	265.4	220.8	176.2	131.6	87.0	147.0
82.5°	451.8	408.3	364.8	321.3	277.8	234.3	190.8	147.3	103.8	60.3	118.7
85°	414.2	372.2	330.3	288.3	246.4	204.4	162.5	120.5	78.6	36.6	92.9
87.5°	376.7	336.5	296.3	256.1	215.9	175.6	135.4	95.2	55.0	14.8	68.6
90°	342.1	304.2	266.3	228.4	190.5	152.6	114.7	76.8	38.9	1.0	51.4
92.5°	318.3	282.9	247.6	212.2	176.8	141.5	106.1	70.7	35.4	0.0	46.9
95°	294.6	262.0	229.4	196.7	164.1	131.5	98.9	66.2	33.6	1.0	44.1
97.5°	272.9	242.7	212.5	182.3	152.1	121.8	91.6	61.4	31.2	1.0	40.7
100°	251.1	223.2	195.3	167.4	139.5	111.6	83.7	55.8	27.9	0.0	36.4
102.5°	229.4	204.0	178.6	153.3	127.9	102.5	77.1	51.8	26.4	1.0	34.2
105°	210.6	187.3	164.0	140.7	117.4	94.2	70.9	47.6	24.3	1.0	31.2
107.5°	192.8	171.5	150.2	128.9	107.6	86.2	64.9	43.6	22.3	1.0	28.5
110°	176.0	156.6	137.1	117.7	98.2	78.8	59.3	39.9	20.4	1.0	25.7



TEST NUMBER: P201351

CATALOG NUMBER: 4LBLED-LD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	160.2	142.5	124.8	107.1	89.4	71.8	54.1	36.4	18.7	1.0	23.4
115°	144.3	128.4	112.5	96.5	80.6	64.7	48.8	32.8	16.9	1.0	21.4
117.5°	129.5	115.2	100.9	86.7	72.4	58.1	43.8	29.6	15.3	1.0	19.5
120°	116.7	103.8	91.0	78.1	65.3	52.4	39.6	26.7	13.9	1.0	17.7
122.5°	105.8	94.2	82.5	70.9	59.2	47.6	35.9	24.3	12.6	1.0	15.9
125°	95.9	85.4	74.8	64.3	53.7	43.2	32.6	22.1	11.5	1.0	14.1
127.5°	85.0	75.7	66.3	57.0	47.7	38.3	29.0	19.7	10.3	1.0	12.1
130°	75.1	66.9	58.6	50.4	42.2	33.9	25.7	17.5	9.2	1.0	10.1
132.5°	66.2	59.1	51.9	44.8	37.7	30.5	23.4	16.3	9.1	2.0	9.2
135°	57.3	51.0	44.8	38.5	32.3	26.0	19.8	13.5	7.3	1.0	6.7
137.5°	48.4	43.1	37.9	32.6	27.3	22.1	16.8	11.5	6.3	1.0	5.2
140°	39.5	35.3	31.2	27.0	22.8	18.7	14.5	10.3	6.2	2.0	4.9
142.5°	30.6	27.3	24.0	20.7	17.4	14.2	10.9	7.6	4.3	1.0	3.1
145°	22.7	20.3	17.9	15.5	13.1	10.6	8.2	5.8	3.4	1.0	2.4
147.5°	18.8	16.9	15.1	13.2	11.3	9.5	7.6	5.7	3.9	2.0	3.0
150°	15.8	14.3	12.7	11.2	9.7	8.1	6.6	5.1	3.5	2.0	2.8
152.5°	13.8	12.5	11.2	9.9	8.6	7.2	5.9	4.6	3.3	2.0	2.5
155°	10.9	9.9	8.9	7.9	6.9	6.0	5.0	4.0	3.0	2.0	2.3
157.5°	8.9	8.1	7.4	6.6	5.8	5.1	4.3	3.5	2.8	2.0	2.2
160°	6.9	6.4	5.8	5.3	4.7	4.2	3.6	3.1	2.5	2.0	2.1
162.5°	4.9	4.6	4.3	3.9	3.6	3.3	3.0	2.6	2.3	2.0	2.1
165°	4.0	3.8	3.6	3.3	3.1	2.9	2.7	2.4	2.2	2.0	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: P201351

CATALOG NUMBER: 4LBLELD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1
2.5°	1220.8	1220.3	1219.7	1219.2	1218.6	1218.1	1217.5	1217.0	1217.8	1218.5	1219.3
5°	1216.6	1217.0	1217.3	1217.6	1217.9	1218.3	1218.6	1218.9	1220.4	1222.0	1223.5
7.5°	1208.0	1209.4	1210.8	1212.3	1213.7	1215.1	1216.6	1218.0	1220.4	1222.8	1225.2
10°	1195.9	1198.2	1200.5	1202.8	1205.1	1207.4	1209.7	1212.0	1215.5	1219.0	1222.6
12.5°	1178.5	1182.0	1185.5	1189.1	1192.6	1196.1	1199.6	1203.1	1207.8	1212.5	1217.3
15°	1159.7	1164.2	1168.7	1173.3	1177.8	1182.3	1186.8	1191.3	1197.4	1203.6	1209.7
17.5°	1136.2	1141.8	1147.4	1153.0	1158.6	1164.2	1169.8	1175.4	1183.3	1191.2	1199.1
20°	1107.7	1114.8	1121.9	1129.1	1136.2	1143.3	1150.5	1157.6	1167.3	1176.9	1186.6
22.5°	1076.7	1085.2	1093.6	1102.1	1110.5	1119.0	1127.4	1135.9	1148.5	1161.2	1173.8
25°	1045.3	1054.9	1064.4	1074.0	1083.5	1093.1	1102.6	1112.2	1128.7	1145.2	1161.6
27.5°	1006.8	1018.3	1029.8	1041.4	1052.9	1064.4	1076.0	1087.5	1107.9	1128.3	1148.8
30°	968.5	981.7	994.9	1008.0	1021.2	1034.4	1047.6	1060.8	1085.2	1109.6	1133.9
32.5°	930.6	945.1	959.6	974.1	988.6	1003.1	1017.6	1032.1	1060.5	1089.0	1117.4
35°	888.3	904.9	921.5	938.0	954.6	971.2	987.8	1004.4	1036.9	1069.4	1101.9
37.5°	845.9	865.0	884.1	903.3	922.4	941.5	960.6	979.7	1016.2	1052.6	1089.1
40°	803.4	825.5	847.6	869.6	891.7	913.8	935.9	958.0	998.2	1038.4	1078.6
42.5°	760.1	785.3	810.4	835.6	860.7	885.9	911.0	936.2	980.6	1025.0	1069.3
45°	717.1	745.4	773.7	802.1	830.4	858.7	887.1	915.4	964.2	1013.0	1061.7
47.5°	674.7	706.2	737.6	769.0	800.4	831.9	863.3	894.7	948.4	1002.1	1055.8
50°	632.5	667.0	701.5	735.9	770.4	804.9	839.4	873.9	933.1	992.3	1051.5
52.5°	591.6	629.4	667.2	704.9	742.7	780.5	818.3	856.1	921.1	986.2	1051.2
55°	551.8	592.8	633.9	675.0	716.1	757.1	798.2	839.3	910.6	981.9	1053.2
57.5°	512.6	556.9	601.2	645.4	689.7	734.0	778.2	822.5	901.0	979.6	1058.1
60°	475.7	523.3	570.9	618.4	666.0	713.6	761.1	808.7	894.7	980.7	1066.7
62.5°	439.6	490.3	541.1	591.8	642.6	693.3	744.1	794.8	888.3	981.8	1075.2
65°	405.0	458.7	512.4	566.2	619.9	673.6	727.3	781.0	881.6	982.2	1082.9
67.5°	370.7	427.1	483.4	539.8	596.1	652.5	708.8	765.2	872.5	979.8	1087.1
70°	334.8	393.5	452.1	510.8	569.4	628.1	686.7	745.4	857.3	969.3	1081.2
72.5°	302.1	362.2	422.3	482.3	542.4	602.5	662.6	722.7	836.9	951.2	1065.4
75°	269.8	330.5	391.3	452.0	512.8	573.5	634.3	695.0	808.8	922.6	1036.4
77.5°	238.2	298.9	359.7	420.4	481.2	541.9	602.7	663.4	774.0	884.6	995.2
80°	207.0	266.9	326.9	386.9	446.9	506.8	566.8	626.8	731.9	837.0	942.2
82.5°	177.2	235.6	294.0	352.5	410.9	469.3	527.8	586.2	684.3	782.4	880.5
85°	149.3	205.6	262.0	318.3	374.7	431.0	487.4	543.7	634.0	724.3	814.6
87.5°	122.4	176.3	230.1	283.9	337.7	391.6	445.4	499.2	581.3	663.3	745.4
90°	101.8	152.3	202.7	253.1	303.5	354.0	404.4	454.8	529.3	603.7	678.2
92.5°	93.8	140.7	187.6	234.5	281.4	328.3	375.2	422.1	489.9	557.7	625.4
95°	87.1	130.2	173.2	216.3	259.3	302.4	345.4	388.5	450.8	513.1	575.4
97.5°	80.3	120.0	159.6	199.3	238.9	278.6	318.2	357.9	415.7	473.5	531.2
100°	72.7	109.1	145.4	181.8	218.1	254.5	290.8	327.2	381.5	435.7	490.0
102.5°	67.3	100.5	133.7	166.8	200.0	233.2	266.3	299.5	350.9	402.3	453.7
105°	61.4	91.6	121.8	152.1	182.3	212.5	242.7	272.9	322.3	371.7	421.2
107.5°	55.9	83.4	110.8	138.3	165.7	193.2	220.6	248.1	295.2	342.3	389.5
110°	50.4	75.1	99.8	124.6	149.3	174.0	198.7	223.4	268.5	313.7	358.8



TEST NUMBER: P201351

CATALOG NUMBER: 4LBLED-LD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	45.8	68.2	90.6	113.1	135.5	157.9	180.3	202.7	245.6	288.6	331.5
115°	41.9	62.3	82.7	103.2	123.6	144.0	164.5	184.9	225.9	266.8	307.8
117.5°	37.9	56.4	74.8	93.3	111.7	130.2	148.6	167.1	206.0	244.9	283.7
120°	34.4	51.1	67.8	84.5	101.2	117.9	134.6	151.3	187.7	224.0	260.4
122.5°	30.9	45.8	60.7	75.7	90.6	105.5	120.5	135.4	168.9	202.4	235.9
125°	27.1	40.2	53.3	66.3	79.4	92.5	105.5	118.6	149.7	180.8	211.9
127.5°	23.2	34.3	45.4	56.4	67.5	78.6	89.7	100.8	129.9	159.0	188.1
130°	19.2	28.3	37.4	46.6	55.7	64.8	73.9	83.0	109.4	135.7	162.1
132.5°	16.5	23.7	31.0	38.2	45.5	52.7	60.0	67.2	90.6	114.0	137.4
135°	12.4	18.1	23.8	29.6	35.3	41.0	46.7	52.4	72.8	93.3	113.7
137.5°	9.4	13.5	17.7	21.9	26.1	30.2	34.4	38.6	56.3	74.0	91.6
140°	7.7	10.6	13.4	16.3	19.1	22.0	24.8	27.7	43.0	58.2	73.5
142.5°	5.2	7.3	9.4	11.4	13.5	15.6	17.7	19.8	32.6	45.5	58.3
145°	3.8	5.3	6.7	8.1	9.5	11.0	12.4	13.8	24.2	34.7	45.1
147.5°	4.0	5.0	6.0	6.9	7.9	8.9	9.9	10.9	19.1	27.4	35.6
150°	3.5	4.3	5.1	5.8	6.6	7.4	8.1	8.9	14.9	21.0	27.0
152.5°	3.1	3.6	4.2	4.7	5.3	5.8	6.4	6.9	11.2	15.5	19.8
155°	2.6	3.0	3.3	3.6	3.9	4.3	4.6	4.9	7.4	10.0	12.5
157.5°	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	5.5	7.1	8.6
160°	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0	3.8	4.5	5.3
162.5°	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0	3.2	3.4	3.6
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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: P201351

CATALOG NUMBER: 4LBLEDD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1
2.5°	1220.1	1220.8	1221.6	1222.4	1223.1	1223.9	1224.1	1224.3	1224.6	1224.8	1225.0
5°	1225.1	1226.6	1228.2	1229.7	1231.3	1232.8	1233.6	1234.3	1235.1	1235.9	1236.6
7.5°	1227.6	1230.1	1232.5	1234.9	1237.3	1239.7	1241.3	1243.0	1244.6	1246.3	1247.9
10°	1226.1	1229.6	1233.1	1236.7	1240.2	1243.7	1246.4	1249.2	1251.9	1254.7	1257.4
12.5°	1222.0	1226.7	1231.4	1236.2	1240.9	1245.6	1249.4	1253.3	1257.1	1261.0	1264.8
15°	1215.9	1222.0	1228.2	1234.3	1240.5	1246.6	1251.8	1256.9	1262.1	1267.3	1272.4
17.5°	1207.0	1215.0	1222.9	1230.8	1238.7	1246.6	1253.7	1260.9	1268.0	1275.2	1282.3
20°	1196.3	1205.9	1215.6	1225.3	1234.9	1244.6	1255.0	1265.5	1275.9	1286.4	1296.8
22.5°	1186.4	1199.1	1211.7	1224.3	1237.0	1249.6	1262.6	1275.5	1288.5	1301.4	1314.4
25°	1178.1	1194.6	1211.1	1227.5	1244.0	1260.5	1275.2	1289.9	1304.6	1319.3	1334.1
27.5°	1169.2	1189.6	1210.0	1230.5	1250.9	1271.3	1287.9	1304.5	1321.1	1337.7	1354.2
30°	1158.3	1182.7	1207.1	1231.4	1255.8	1280.2	1298.9	1317.6	1336.2	1354.9	1373.6
32.5°	1145.9	1174.3	1202.8	1231.2	1259.7	1288.1	1309.3	1330.5	1351.7	1372.9	1394.1
35°	1134.4	1167.0	1199.5	1232.0	1264.5	1297.0	1321.3	1345.6	1369.8	1394.1	1418.4
37.5°	1125.6	1162.0	1198.5	1235.0	1271.4	1307.9	1335.5	1363.1	1390.6	1418.2	1445.8
40°	1118.8	1159.0	1199.2	1239.4	1279.6	1319.8	1351.5	1383.3	1415.0	1446.8	1478.5
42.5°	1113.7	1158.1	1202.5	1246.8	1291.2	1335.6	1372.2	1408.8	1445.3	1481.9	1518.5
45°	1110.5	1159.3	1208.1	1256.8	1305.6	1354.4	1396.4	1438.3	1480.3	1522.2	1564.2
47.5°	1109.5	1163.3	1217.0	1270.7	1324.4	1378.1	1426.1	1474.1	1522.1	1570.1	1618.1
50°	1110.7	1170.0	1229.2	1288.4	1347.6	1406.8	1462.4	1518.0	1573.5	1629.1	1684.7
52.5°	1116.2	1181.3	1246.3	1311.3	1376.4	1441.4	1504.6	1567.7	1630.9	1694.0	1757.2
55°	1124.5	1195.7	1267.0	1338.3	1409.6	1480.9	1550.7	1620.4	1690.2	1759.9	1829.7
57.5°	1136.7	1215.2	1293.8	1372.3	1450.9	1529.4	1607.4	1685.4	1763.4	1841.4	1919.3
60°	1152.7	1238.7	1324.7	1410.7	1496.7	1582.7	1666.6	1750.5	1834.5	1918.4	2002.3
62.5°	1168.7	1262.2	1355.7	1449.1	1542.6	1636.1	1725.5	1814.9	1904.4	1993.8	2083.2
65°	1183.5	1284.1	1384.7	1485.4	1586.0	1686.6	1779.9	1873.1	1966.4	2059.6	2152.9
67.5°	1194.4	1301.8	1409.1	1516.4	1623.7	1731.0	1825.6	1920.2	2014.7	2109.3	2203.9
70°	1193.1	1305.1	1417.0	1528.9	1640.9	1752.8	1847.4	1942.0	2036.5	2131.1	2225.7
72.5°	1179.6	1293.9	1408.1	1522.3	1636.6	1750.8	1843.7	1936.7	2029.6	2122.5	2215.5
75°	1150.2	1264.0	1377.8	1491.6	1605.4	1719.2	1808.9	1898.7	1988.4	2078.2	2167.9
77.5°	1105.8	1216.5	1327.1	1437.7	1548.3	1658.9	1743.7	1828.5	1913.3	1998.1	2082.9
80°	1047.3	1152.4	1257.5	1362.7	1467.8	1572.9	1651.2	1729.5	1807.8	1886.1	1964.5
82.5°	978.6	1076.7	1174.8	1272.9	1371.0	1469.1	1540.6	1612.1	1683.6	1755.1	1826.6
85°	904.9	995.2	1085.5	1175.8	1266.1	1356.4	1421.1	1485.8	1550.5	1615.2	1679.8
87.5°	827.4	909.5	991.5	1073.6	1155.6	1237.7	1295.6	1353.5	1411.4	1469.3	1527.1
90°	752.7	827.1	901.6	976.1	1050.5	1125.0	1177.3	1229.6	1281.9	1334.2	1386.4
92.5°	693.2	761.0	828.8	896.5	964.3	1032.1	1079.9	1127.7	1175.4	1223.2	1271.0
95°	637.7	699.9	762.2	824.5	886.8	949.1	994.2	1039.4	1084.5	1129.7	1174.8
97.5°	589.0	646.8	704.6	762.3	820.1	877.9	920.1	962.3	1004.4	1046.6	1088.8
100°	544.3	598.5	652.8	707.1	761.3	815.6	856.2	896.9	937.5	978.2	1018.8
102.5°	505.1	556.6	608.0	659.4	710.8	762.2	801.6	841.1	880.5	919.9	959.4
105°	470.6	520.0	569.4	618.9	668.3	717.7	756.1	794.6	833.0	871.5	909.9
107.5°	436.6	483.7	530.8	578.0	625.1	672.2	710.1	748.0	785.9	823.8	861.7
110°	404.0	449.1	494.3	539.4	584.6	629.7	666.9	704.2	741.4	778.7	815.9



TEST NUMBER: P201351

CATALOG NUMBER: 4LBLED-LD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	374.5	417.4	460.4	503.3	546.3	589.2	625.4	661.7	697.9	734.2	770.4
115°	348.8	389.7	430.7	471.7	512.6	553.6	588.2	622.8	657.4	692.0	726.6
117.5°	322.6	361.5	400.4	439.2	478.1	517.0	550.2	583.4	616.5	649.7	682.9
120°	296.7	333.1	369.4	405.8	442.1	478.5	510.9	543.3	575.7	608.1	640.5
122.5°	269.4	303.0	336.5	370.0	403.5	437.0	468.7	500.5	532.2	564.0	595.7
125°	243.0	274.0	305.1	336.2	367.3	398.4	428.5	458.6	488.7	518.8	548.9
127.5°	217.2	246.4	275.5	304.6	333.7	362.8	390.4	418.0	445.5	473.1	500.7
130°	188.5	214.8	241.2	267.6	293.9	320.3	345.6	370.8	396.1	421.4	446.6
132.5°	160.8	184.2	207.6	231.0	254.4	277.8	301.7	325.7	349.6	373.6	397.5
135°	134.1	154.6	175.0	195.4	215.9	236.3	259.3	282.2	305.2	328.1	351.1
137.5°	109.3	127.0	144.7	162.3	180.0	197.7	219.1	240.5	262.0	283.4	304.8
140°	88.8	104.0	119.3	134.6	149.8	165.1	183.8	202.5	221.1	239.8	258.5
142.5°	71.2	84.0	96.9	109.7	122.6	135.4	151.3	167.3	183.2	199.1	215.1
145°	55.6	66.0	76.5	86.9	97.4	107.8	121.1	134.4	147.7	161.0	174.2
147.5°	43.8	52.1	60.3	68.5	76.8	85.0	96.0	107.0	118.0	129.0	139.9
150°	33.1	39.1	45.2	51.2	57.3	63.3	72.3	81.3	90.3	99.3	108.3
152.5°	24.1	28.3	32.6	36.9	41.2	45.5	52.6	59.8	66.9	74.0	81.2
155°	15.0	17.6	20.1	22.6	25.2	27.7	33.4	39.1	44.8	50.5	56.3
157.5°	10.1	11.7	13.2	14.7	16.3	17.8	21.9	25.9	30.0	34.1	38.1
160°	6.1	6.8	7.6	8.4	9.1	9.9	12.3	14.7	17.1	19.5	22.0
162.5°	3.8	4.1	4.3	4.5	4.7	4.9	5.9	6.9	7.9	8.9	9.8
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.6	3.0	3.3	3.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201351

CATALOG NUMBER: 4LBLELD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1	1207.1
2.5°	1225.2	1225.5	1225.7	1225.9	1224.7	1223.5	1222.3	1221.1	1219.8	1218.6	1217.4
5°	1237.4	1238.2	1238.9	1239.7	1239.6	1239.5	1239.4	1239.3	1239.1	1239.0	1238.9
7.5°	1249.6	1251.2	1252.9	1254.5	1254.6	1254.7	1254.8	1254.9	1255.1	1255.2	1255.3
10°	1260.2	1262.9	1265.7	1268.4	1268.7	1269.0	1269.4	1269.7	1270.0	1270.3	1270.7
12.5°	1268.7	1272.5	1276.4	1280.2	1281.1	1282.0	1282.8	1283.7	1284.6	1285.5	1286.3
15°	1277.6	1282.8	1287.9	1293.1	1294.7	1296.4	1298.0	1299.7	1301.3	1303.0	1304.6
17.5°	1289.5	1296.6	1303.8	1310.9	1314.0	1317.1	1320.1	1323.2	1326.3	1329.4	1332.4
20°	1307.3	1317.7	1328.2	1338.6	1342.4	1346.3	1350.1	1354.0	1357.8	1361.7	1365.5
22.5°	1327.3	1340.3	1353.2	1366.2	1370.5	1374.8	1379.1	1383.4	1387.6	1391.9	1396.2
25°	1348.8	1363.5	1378.2	1392.9	1397.8	1402.8	1407.7	1412.7	1417.6	1422.6	1427.5
27.5°	1370.8	1387.4	1404.0	1420.6	1426.3	1432.0	1437.7	1443.4	1449.2	1454.9	1460.6
30°	1392.3	1410.9	1429.6	1448.3	1455.2	1462.1	1469.1	1476.0	1482.9	1489.8	1496.8
32.5°	1415.3	1436.5	1457.7	1478.9	1487.5	1496.1	1504.6	1513.2	1521.8	1530.4	1538.9
35°	1442.7	1466.9	1491.2	1515.5	1525.7	1535.9	1546.2	1556.4	1566.6	1576.8	1587.1
37.5°	1473.4	1500.9	1528.5	1556.1	1567.8	1579.6	1591.3	1603.1	1614.8	1626.6	1638.3
40°	1510.3	1542.0	1573.8	1605.5	1619.6	1633.6	1647.7	1661.7	1675.8	1689.8	1703.9
42.5°	1555.1	1591.6	1628.2	1664.8	1680.9	1697.1	1713.2	1729.4	1745.5	1761.7	1777.8
45°	1606.1	1648.1	1690.0	1732.0	1751.8	1771.6	1791.3	1811.1	1830.9	1850.7	1870.4
47.5°	1666.1	1714.1	1762.1	1810.1	1832.0	1853.8	1875.7	1897.6	1919.4	1941.3	1963.2
50°	1740.3	1795.8	1851.4	1907.0	1931.2	1955.3	1979.5	2003.7	2027.8	2052.0	2076.2
52.5°	1820.3	1883.5	1946.6	2009.8	2036.5	2063.2	2089.9	2116.6	2143.3	2170.0	2196.7
55°	1899.4	1969.2	2038.9	2108.7	2138.6	2168.5	2198.3	2228.2	2258.1	2288.0	2317.8
57.5°	1997.3	2075.3	2153.3	2231.3	2261.9	2292.6	2323.2	2353.9	2384.5	2415.2	2445.8
60°	2086.2	2170.2	2254.1	2338.0	2370.2	2402.4	2434.6	2466.8	2498.9	2531.1	2563.3
62.5°	2172.6	2262.1	2351.5	2440.9	2473.0	2505.0	2537.1	2569.2	2601.2	2633.3	2665.4
65°	2246.1	2339.4	2432.6	2525.9	2557.3	2588.7	2620.1	2651.5	2683.0	2714.4	2745.8
67.5°	2298.5	2393.0	2487.6	2582.2	2612.8	2643.5	2674.1	2704.8	2735.4	2766.1	2796.7
70°	2320.3	2414.8	2509.4	2604.0	2633.5	2663.1	2692.6	2722.2	2751.7	2781.3	2810.8
72.5°	2308.4	2401.3	2494.3	2587.2	2615.1	2643.0	2670.9	2698.8	2726.7	2754.6	2782.5
75°	2257.7	2347.4	2437.2	2526.9	2552.9	2579.0	2605.0	2631.0	2657.1	2683.1	2709.1
77.5°	2167.7	2252.5	2337.3	2422.1	2446.6	2471.1	2495.6	2520.1	2544.5	2569.0	2593.5
80°	2042.8	2121.1	2199.4	2277.7	2301.0	2324.3	2347.6	2370.9	2394.1	2417.4	2440.7
82.5°	1898.1	1969.6	2041.1	2112.6	2134.5	2156.3	2178.2	2200.1	2221.9	2243.8	2265.7
85°	1744.5	1809.2	1873.9	1938.6	1958.4	1978.2	1997.9	2017.7	2037.5	2057.3	2077.0
87.5°	1585.0	1642.9	1700.8	1758.7	1777.7	1796.7	1815.7	1834.7	1853.7	1872.7	1891.7
90°	1438.7	1491.0	1543.3	1595.6	1613.6	1631.6	1649.6	1667.6	1685.7	1703.7	1721.7
92.5°	1318.8	1366.5	1414.3	1462.1	1479.0	1495.9	1512.9	1529.8	1546.7	1563.6	1580.6
95°	1220.0	1265.1	1310.3	1355.4	1370.8	1386.2	1401.5	1416.9	1432.3	1447.7	1463.0
97.5°	1131.0	1173.1	1215.3	1257.5	1272.9	1288.3	1303.6	1319.0	1334.4	1349.8	1365.1
100°	1059.5	1100.1	1140.8	1181.4	1196.2	1211.0	1225.9	1240.7	1255.5	1270.3	1285.2
102.5°	998.8	1038.2	1077.7	1117.1	1131.8	1146.5	1161.3	1176.0	1190.7	1205.4	1220.2
105°	948.4	986.8	1025.3	1063.7	1078.1	1092.5	1106.9	1121.3	1135.6	1150.0	1164.4
107.5°	899.6	937.5	975.4	1013.3	1027.7	1042.1	1056.5	1070.9	1085.2	1099.6	1114.0
110°	853.2	890.4	927.7	964.9	979.2	993.5	1007.7	1022.0	1036.3	1050.6	1064.8



TEST NUMBER: P201351

CATALOG NUMBER: 4LBLED-LD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	806.7	842.9	879.2	915.4	929.7	944.0	958.3	972.6	986.8	1001.1	1015.4
115°	761.2	795.8	830.4	865.0	879.0	892.9	906.9	920.8	934.8	948.7	962.7
117.5°	716.1	749.2	782.4	815.6	829.0	842.4	855.8	869.2	882.6	896.0	909.4
120°	672.9	705.3	737.7	770.1	782.7	795.4	808.0	820.6	833.3	845.9	858.5
122.5°	627.5	659.2	691.0	722.7	735.1	747.5	759.9	772.3	784.8	797.2	809.6
125°	579.0	609.1	639.2	669.3	681.6	693.9	706.2	718.5	730.8	743.1	755.4
127.5°	528.3	555.8	583.4	611.0	623.1	635.2	647.2	659.3	671.4	683.5	695.5
130°	471.9	497.2	522.4	547.7	559.2	570.8	582.3	593.8	605.4	616.9	628.4
132.5°	421.5	445.4	469.4	493.3	503.1	512.9	522.6	532.4	542.2	552.0	561.7
135°	374.0	397.0	419.9	442.9	451.5	460.0	468.6	477.2	485.7	494.3	502.9
137.5°	326.2	347.7	369.1	390.5	398.7	407.0	415.2	423.4	431.7	439.9	448.1
140°	277.2	295.8	314.5	333.2	341.8	350.3	358.9	367.5	376.0	384.6	393.2
142.5°	231.0	246.9	262.9	278.8	287.6	296.4	305.2	314.0	322.7	331.5	340.3
145°	187.5	200.8	214.1	227.4	236.3	245.2	254.1	263.0	271.9	280.8	289.7
147.5°	150.9	161.9	172.9	183.9	192.6	201.3	209.9	218.6	227.3	236.0	244.6
150°	117.3	126.3	135.3	144.3	152.3	160.3	168.4	176.4	184.4	192.4	200.5
152.5°	88.3	95.4	102.6	109.7	117.2	124.7	132.1	139.6	147.1	154.6	162.0
155°	62.0	67.7	73.4	79.1	85.8	92.5	99.2	105.9	112.6	119.3	126.0
157.5°	42.2	46.3	50.3	54.4	60.0	65.6	71.2	76.8	82.4	88.0	93.6
160°	24.4	26.8	29.2	31.6	36.2	40.8	45.5	50.1	54.7	59.3	64.0
162.5°	10.8	11.8	12.8	13.8	17.1	20.4	23.7	27.0	30.3	33.6	36.9
165°	3.9	4.3	4.6	4.9	7.0	9.1	11.2	13.3	15.3	17.4	19.5
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: P201351

CATALOG NUMBER: 4LBLED-LD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1207.1	1207.1
2.5°	1216.2	1215.0
5°	1238.8	1238.7
7.5°	1255.4	1255.5
10°	1271.0	1271.3
12.5°	1287.2	1288.1
15°	1306.3	1307.9
17.5°	1335.5	1338.6
20°	1369.4	1373.2
22.5°	1400.5	1404.8
25°	1432.5	1437.4
27.5°	1466.3	1472.0
30°	1503.7	1510.6
32.5°	1547.5	1556.1
35°	1597.3	1607.5
37.5°	1650.1	1661.8
40°	1717.9	1732.0
42.5°	1794.0	1810.1
45°	1890.2	1910.0
47.5°	1985.0	2006.9
50°	2100.3	2124.5
52.5°	2223.4	2250.1
55°	2347.7	2377.6
57.5°	2476.5	2507.1
60°	2595.5	2627.7
62.5°	2697.4	2729.5
65°	2777.2	2808.6
67.5°	2827.4	2858.0
70°	2840.4	2869.9
72.5°	2810.4	2838.3
75°	2735.2	2761.2
77.5°	2618.0	2642.5
80°	2464.0	2487.3
82.5°	2287.5	2309.4
85°	2096.8	2116.6
87.5°	1910.7	1929.7
90°	1739.7	1757.7
92.5°	1597.5	1614.4
95°	1478.4	1493.8
97.5°	1380.5	1395.9
100°	1300.0	1314.8
102.5°	1234.9	1249.6
105°	1178.8	1193.2
107.5°	1128.4	1142.8
110°	1079.1	1093.4



TEST NUMBER: P201351

CATALOG NUMBER: 4LBLED-LD4-10-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1029.7	1044.0
115°	976.6	990.6
117.5°	922.8	936.2
120°	871.2	883.8
122.5°	822.0	834.4
125°	767.7	780.0
127.5°	707.6	719.7
130°	640.0	651.5
132.5°	571.5	581.3
135°	511.4	520.0
137.5°	456.4	464.6
140°	401.7	410.3
142.5°	349.1	357.9
145°	298.6	307.5
147.5°	253.3	262.0
150°	208.5	216.5
152.5°	169.5	177.0
155°	132.7	139.4
157.5°	99.2	104.8
160°	68.6	73.2
162.5°	40.2	43.5
165°	21.6	23.7
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)