

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: P201406

Luminaire Tested: **8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28233)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8LBLELD4-10-ASYMW-UNV-L840-CD2-U
Description: 8 ft. Low Bay Linear, 7000 lm, Wht Asym lens, 4K
Light Source: (616) 4000K CCT, 80 CRI LEDS
2UT217098A8404C, 2UT217056A8404B
Ballast/Driver: OSRAM
(OT50W01080CC), (OT30W0600CC)

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10256.0 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 1.2 / 1.86
Luminous Opening: Rectangular w/ Sides (W: 8' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

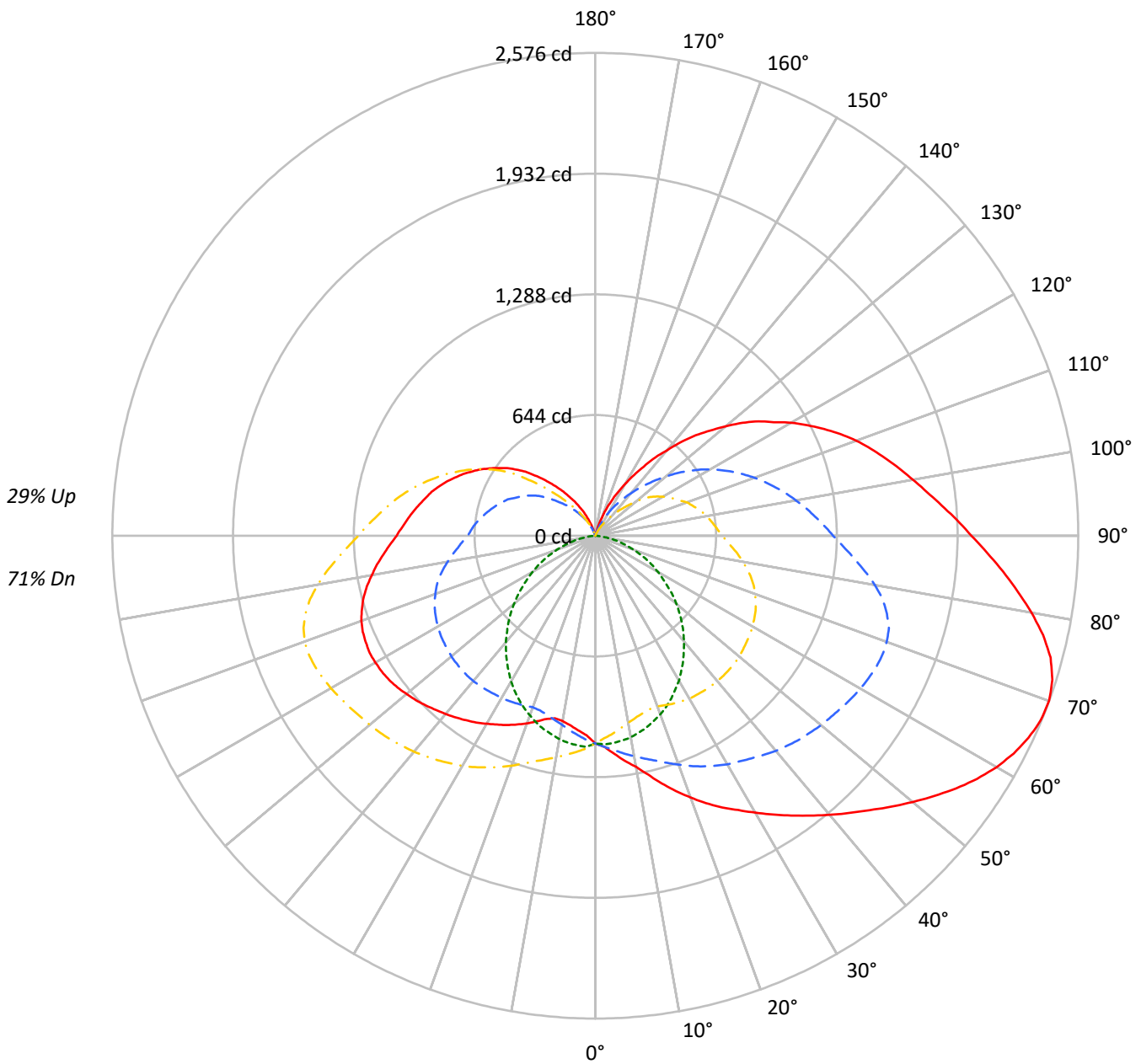
Input Watts (W): 75.28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° ···· 90°-270° - · - · 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	97	90	84	79	91	85	80	75	75	71	67	66	63	60	58	55	53	49
2	86	76	67	60	81	71	64	57	63	57	51	55	50	46	48	44	40	36
3	77	65	55	48	72	61	52	45	54	47	41	47	41	36	41	36	32	28
4	70	56	46	39	65	53	44	37	47	39	33	41	35	30	35	30	26	23
5	64	50	40	32	60	47	38	31	41	34	28	36	30	25	31	26	22	19
6	59	44	34	27	55	42	33	26	37	29	24	32	26	21	28	23	19	16
7	54	40	30	24	50	37	29	23	33	26	20	29	23	18	25	20	16	14
8	50	36	27	21	47	34	25	20	30	23	18	26	20	16	23	18	14	12
9	46	32	24	18	44	31	23	17	27	21	16	24	18	14	21	16	13	10
10	43	30	22	16	41	28	21	15	25	19	14	22	17	13	20	15	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8926	8926	8926	8926
5°	8517	8956	7598	9053
10°	8398	8892	6734	8974
15°	8555	8763	6328	8846
20°	8766	8612	6288	8663
25°	8997	8413	6264	8466
30°	9232	8175	6266	8230
35°	9572	7881	6314	7939
40°	9996	7575	6387	7636
45°	10502	7240	6494	7284
50°	11149	6857	6629	6881
55°	11878	6366	6783	6420
60°	12605	5921	6910	5952
65°	13241	5453	7010	5417
70°	13722	4793	7074	4749
75°	13854	3973	7054	3916
80°	13590	2911	6962	2911
85°	13237	1425	6880	1568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	1.0
10°-20°	317.7	3.1
20°-30°	537.0	5.2
30°-40°	749.5	7.3
40°-50°	945.1	9.2
50°-60°	1109.8	10.8
60°-70°	1218.1	11.9
70°-80°	1207.5	11.8
80°-90°	1061.4	10.3
90°-100°	903.6	8.8
100°-110°	752.5	7.3
110°-120°	580.6	5.7
120°-130°	401.1	3.9
130°-140°	230.9	2.3
140°-150°	102.6	1.0
150°-160°	30.4	0.3
160°-170°	2.6	0.0
170°-180°	0.0	0.0
0°-30°	960.4	9.4
0°-40°	1709.9	16.7
0°-60°	3764.9	36.7
0°-90°	7251.8	70.7
90°-120°	2236.7	21.8
90°-150°	2971.2	29.0
90°-180°	3004.0	29.3
0°-180°	10256.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1108	1108	1108	1108	1108	
5°	1168	1110	1042	1122	1168	114
15°	1368	1058	1012	1068	1368	391
25°	1600	958	1114	964	1600	742
35°	1822	816	1202	822	1822	1148
45°	2070	652	1280	656	2070	1608
55°	2350	470	1342	474	2350	2107
65°	2550	302	1350	300	2550	2522
75°	2514	140	1280	138	2514	2640
85°	2182	20	1134	22	2182	1819
90°	2006	0	1060	0	2006	1101
95°	1854	0	1006	2	1854	1488
105°	1600	0	904	2	1600	1694
115°	1346	0	778	2	1346	1337
125°	1064	0	630	2	1064	953
135°	758	0	454	2	758	588
145°	450	0	274	2	450	289
155°	208	0	124	2	208	100
165°	28	0	8	2	28	12
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°	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1127.9	1127.7	1127.5	1127.2	1127.0	1126.8	1126.6	1126.3	1126.1	1125.9	1126.1
5°	1167.9	1166.6	1165.2	1163.9	1162.6	1161.2	1159.9	1158.6	1157.2	1155.9	1155.0
7.5°	1211.9	1209.7	1207.5	1205.2	1203.0	1200.8	1198.6	1196.3	1194.1	1191.9	1189.7
10°	1251.9	1249.0	1246.1	1243.2	1240.3	1237.5	1234.6	1231.7	1228.8	1225.9	1222.3
12.5°	1305.9	1301.7	1297.5	1293.2	1289.0	1284.8	1280.6	1276.3	1272.1	1267.9	1262.3
15°	1367.9	1363.0	1358.1	1353.2	1348.3	1343.5	1338.6	1333.7	1328.8	1323.9	1314.8
17.5°	1427.9	1422.3	1416.8	1411.2	1405.7	1400.1	1394.6	1389.0	1383.5	1377.9	1365.9
20°	1485.9	1479.0	1472.1	1465.2	1458.3	1451.5	1444.6	1437.7	1430.8	1423.9	1410.1
22.5°	1543.9	1535.9	1527.9	1519.9	1511.9	1503.9	1495.9	1487.9	1479.9	1471.9	1456.1
25°	1599.9	1591.2	1582.6	1573.9	1565.2	1556.6	1547.9	1539.2	1530.6	1521.9	1503.7
27.5°	1649.9	1641.0	1632.1	1623.2	1614.3	1605.5	1596.6	1587.7	1578.8	1569.9	1549.2
30°	1705.9	1695.9	1685.9	1675.9	1665.9	1655.9	1645.9	1635.9	1625.9	1615.9	1592.8
32.5°	1763.9	1752.6	1741.2	1729.9	1718.6	1707.2	1695.9	1684.6	1673.2	1661.9	1635.9
35°	1821.9	1809.5	1797.0	1784.6	1772.1	1759.7	1747.2	1734.8	1722.3	1709.9	1681.0
37.5°	1881.8	1868.0	1854.3	1840.5	1826.7	1813.0	1799.2	1785.4	1771.7	1757.9	1726.3
40°	1943.8	1928.7	1913.6	1898.5	1883.4	1868.3	1853.2	1838.1	1823.0	1807.9	1773.5
42.5°	2005.8	1989.4	1972.9	1956.5	1940.1	1923.6	1907.2	1890.8	1874.3	1857.9	1820.1
45°	2069.8	2052.0	2034.2	2016.5	1998.7	1980.9	1963.1	1945.4	1927.6	1909.8	1868.5
47.5°	2139.8	2120.0	2100.2	2080.5	2060.7	2040.9	2021.1	2001.4	1981.6	1961.8	1916.5
50°	2209.8	2188.2	2166.7	2145.1	2123.6	2102.0	2080.5	2058.9	2037.4	2015.8	1966.5
52.5°	2279.8	2256.7	2233.6	2210.5	2187.4	2164.2	2141.1	2118.0	2094.9	2071.8	2017.8
55°	2349.8	2325.1	2300.5	2275.8	2251.1	2226.5	2201.8	2177.1	2152.5	2127.8	2069.4
57.5°	2413.8	2388.2	2362.7	2337.1	2311.6	2286.0	2260.5	2234.9	2209.4	2183.8	2120.9
60°	2469.8	2443.6	2417.4	2391.1	2364.9	2338.7	2312.5	2286.2	2260.0	2233.8	2166.9
62.5°	2515.8	2489.1	2462.5	2435.8	2409.1	2382.5	2355.8	2329.1	2302.5	2275.8	2205.6
65°	2549.8	2523.1	2496.5	2469.8	2443.1	2416.5	2389.8	2363.1	2336.5	2309.8	2236.9
67.5°	2571.8	2544.9	2518.0	2491.1	2464.2	2437.4	2410.5	2383.6	2356.7	2329.8	2255.1
70°	2575.8	2549.1	2522.5	2495.8	2469.1	2442.5	2415.8	2389.1	2362.5	2335.8	2260.0
72.5°	2555.8	2529.6	2503.4	2477.1	2450.9	2424.7	2398.5	2372.2	2346.0	2319.8	2244.5
75°	2513.8	2488.2	2462.7	2437.1	2411.6	2386.0	2360.5	2334.9	2309.4	2283.8	2208.9
77.5°	2445.8	2421.1	2396.5	2371.8	2347.1	2322.5	2297.8	2273.1	2248.5	2223.8	2151.1
80°	2361.8	2338.0	2314.2	2290.5	2266.7	2242.9	2219.1	2195.4	2171.6	2147.8	2077.4
82.5°	2271.8	2248.7	2225.6	2202.5	2179.4	2156.2	2133.1	2110.0	2086.9	2063.8	1995.6
85°	2181.8	2159.1	2136.5	2113.8	2091.1	2068.5	2045.8	2023.1	2000.5	1977.8	1912.0
87.5°	2091.8	2069.1	2046.5	2023.8	2001.1	1978.5	1955.8	1933.1	1910.5	1887.8	1825.1
90°	2005.8	1984.0	1962.3	1940.5	1918.7	1897.0	1875.2	1853.4	1831.7	1809.9	1749.7
92.5°	1929.8	1909.1	1888.5	1867.8	1847.2	1826.5	1805.9	1785.2	1764.6	1743.9	1685.9
95°	1853.9	1834.1	1814.3	1794.6	1774.8	1755.0	1735.2	1715.5	1695.7	1675.9	1620.3
97.5°	1783.9	1765.0	1746.1	1727.2	1708.3	1689.5	1670.6	1651.7	1632.8	1613.9	1560.3
100°	1719.9	1701.2	1682.6	1663.9	1645.2	1626.6	1607.9	1589.2	1570.6	1551.9	1500.1
102.5°	1659.9	1642.1	1624.3	1606.6	1588.8	1571.0	1553.2	1535.5	1517.7	1499.9	1449.0
105°	1599.9	1582.6	1565.2	1547.9	1530.6	1513.2	1495.9	1478.6	1461.2	1443.9	1394.1
107.5°	1541.9	1523.9	1505.9	1487.9	1469.9	1451.9	1433.9	1415.9	1397.9	1379.9	1332.1
110°	1481.9	1463.9	1445.9	1427.9	1409.9	1391.9	1373.9	1355.9	1337.9	1319.9	1273.7



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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°	1415.9	1398.8	1381.7	1364.6	1347.5	1330.3	1313.2	1296.1	1279.0	1261.9	1216.8
115°	1345.9	1328.8	1311.7	1294.6	1277.5	1260.3	1243.2	1226.1	1209.0	1191.9	1149.2
117.5°	1275.9	1259.9	1243.9	1227.9	1211.9	1195.9	1179.9	1163.9	1147.9	1131.9	1090.3
120°	1205.9	1190.6	1175.2	1159.9	1144.6	1129.2	1113.9	1098.6	1083.2	1067.9	1027.9
122.5°	1127.9	1113.9	1099.9	1085.9	1071.9	1057.9	1043.9	1029.9	1015.9	1001.9	963.5
125°	1063.9	1049.7	1035.5	1021.2	1007.0	992.8	978.6	964.3	950.1	935.9	898.8
127.5°	989.9	976.3	962.8	949.2	935.7	922.1	908.6	895.0	881.5	867.9	832.4
130°	907.9	895.7	883.5	871.2	859.0	846.8	834.6	822.3	810.1	797.9	763.7
132.5°	829.9	818.6	807.2	795.9	784.6	773.2	761.9	750.6	739.2	727.9	695.9
135°	757.9	746.8	735.7	724.6	713.5	702.3	691.2	680.1	669.0	657.9	627.9
137.5°	677.9	667.7	657.5	647.3	637.1	626.8	616.6	606.4	596.2	586.0	559.3
140°	596.0	587.3	578.7	570.0	561.3	552.7	544.0	535.3	526.7	518.0	493.1
142.5°	528.0	518.9	509.8	500.7	491.6	482.4	473.3	464.2	455.1	446.0	424.9
145°	450.0	442.7	435.3	428.0	420.7	413.3	406.0	398.7	391.3	384.0	365.3
147.5°	384.0	377.6	371.1	364.7	358.2	351.8	345.3	338.9	332.4	326.0	309.8
150°	320.0	314.7	309.3	304.0	298.7	293.3	288.0	282.7	277.3	272.0	257.6
152.5°	262.0	257.3	252.7	248.0	243.3	238.7	234.0	229.3	224.7	220.0	207.3
155°	208.0	204.0	200.0	196.0	192.0	188.0	184.0	180.0	176.0	172.0	160.9
157.5°	158.0	154.2	150.4	146.7	142.9	139.1	135.3	131.6	127.8	124.0	114.9
160°	106.0	103.1	100.2	97.3	94.4	91.6	88.7	85.8	82.9	80.0	73.8
162.5°	60.0	58.0	56.0	54.0	52.0	50.0	48.0	46.0	44.0	42.0	38.7
165°	28.0	27.1	26.2	25.3	24.4	23.6	22.7	21.8	20.9	20.0	18.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1126.3	1126.6	1126.8	1127.0	1127.2	1127.5	1127.7	1127.9	1125.9	1123.9	1121.9
5°	1154.1	1153.2	1152.3	1151.5	1150.6	1149.7	1148.8	1147.9	1144.6	1141.2	1137.9
7.5°	1187.5	1185.2	1183.0	1180.8	1178.6	1176.3	1174.1	1171.9	1166.6	1161.2	1155.9
10°	1218.8	1215.2	1211.7	1208.1	1204.6	1201.0	1197.5	1193.9	1186.6	1179.2	1171.9
12.5°	1256.8	1251.2	1245.7	1240.1	1234.6	1229.0	1223.5	1217.9	1207.9	1197.9	1187.9
15°	1305.7	1296.6	1287.5	1278.3	1269.2	1260.1	1251.0	1241.9	1229.2	1216.6	1203.9
17.5°	1353.9	1341.9	1329.9	1317.9	1305.9	1293.9	1281.9	1269.9	1253.7	1237.5	1221.2
20°	1396.3	1382.6	1368.8	1355.0	1341.2	1327.5	1313.7	1299.9	1279.9	1259.9	1239.9
22.5°	1440.3	1424.6	1408.8	1393.0	1377.2	1361.5	1345.7	1329.9	1305.9	1281.9	1257.9
25°	1485.5	1467.2	1449.0	1430.8	1412.6	1394.3	1376.1	1357.9	1330.1	1302.3	1274.6
27.5°	1528.6	1507.9	1487.2	1466.6	1445.9	1425.2	1404.6	1383.9	1352.3	1320.8	1289.2
30°	1569.7	1546.6	1523.5	1500.3	1477.2	1454.1	1431.0	1407.9	1372.8	1337.7	1302.6
32.5°	1609.9	1583.9	1557.9	1531.9	1505.9	1479.9	1453.9	1427.9	1389.9	1351.9	1313.9
35°	1652.1	1623.2	1594.3	1565.5	1536.6	1507.7	1478.8	1449.9	1408.6	1367.2	1325.9
37.5°	1694.8	1663.2	1631.7	1600.1	1568.6	1537.0	1505.5	1473.9	1429.0	1384.1	1339.2
40°	1739.0	1704.6	1670.1	1635.7	1601.2	1566.8	1532.3	1497.9	1449.5	1401.0	1352.6
42.5°	1782.3	1744.6	1706.8	1669.0	1631.2	1593.5	1555.7	1517.9	1465.9	1413.9	1361.9
45°	1827.2	1785.8	1744.5	1703.2	1661.9	1620.5	1579.2	1537.9	1482.3	1426.8	1371.2
47.5°	1871.2	1825.8	1780.5	1735.2	1689.9	1644.5	1599.2	1553.9	1495.0	1436.1	1377.2
50°	1917.2	1867.8	1818.5	1769.2	1719.9	1670.5	1621.2	1571.9	1509.2	1446.6	1383.9
52.5°	1963.8	1909.8	1855.8	1801.9	1747.9	1693.9	1639.9	1585.9	1519.7	1453.5	1387.2
55°	2010.9	1952.5	1894.1	1835.6	1777.2	1718.8	1660.3	1601.9	1532.1	1462.3	1392.6
57.5°	2058.0	1995.2	1932.3	1869.4	1806.5	1743.7	1680.8	1617.9	1544.3	1470.8	1397.2
60°	2100.0	2033.2	1966.3	1899.4	1832.5	1765.7	1698.8	1631.9	1554.6	1477.2	1399.9
62.5°	2135.4	2065.2	1995.0	1924.7	1854.5	1784.3	1714.1	1643.9	1563.0	1482.1	1401.2
65°	2164.0	2091.2	2018.3	1945.4	1872.5	1799.7	1726.8	1653.9	1569.2	1484.6	1399.9
67.5°	2180.5	2105.8	2031.2	1956.5	1881.9	1807.2	1732.6	1657.9	1570.1	1482.3	1394.6
70°	2184.3	2108.5	2032.7	1957.0	1881.2	1805.4	1729.7	1653.9	1563.2	1472.6	1381.9
72.5°	2169.2	2093.8	2018.5	1943.2	1867.9	1792.5	1717.2	1641.9	1549.2	1456.6	1363.9
75°	2134.0	2059.2	1984.3	1909.4	1834.5	1759.7	1684.8	1609.9	1517.2	1424.6	1331.9
77.5°	2078.5	2005.8	1933.2	1860.5	1787.9	1715.2	1642.6	1569.9	1477.7	1385.5	1293.2
80°	2006.9	1936.5	1866.1	1795.6	1725.2	1654.8	1584.3	1513.9	1423.5	1333.0	1242.6
82.5°	1927.4	1859.2	1791.0	1722.7	1654.5	1586.3	1518.1	1449.9	1362.6	1275.2	1187.9
85°	1846.3	1780.5	1714.7	1649.0	1583.2	1517.4	1451.7	1385.9	1301.5	1217.0	1132.6
87.5°	1762.5	1699.8	1637.2	1574.5	1511.9	1449.2	1386.6	1323.9	1242.6	1161.3	1079.9
90°	1689.5	1629.2	1569.0	1508.8	1448.6	1388.3	1328.1	1267.9	1189.5	1111.0	1032.6
92.5°	1627.9	1569.9	1511.9	1453.9	1395.9	1337.9	1279.9	1221.9	1145.9	1069.9	993.9
95°	1564.8	1509.2	1453.7	1398.1	1342.6	1287.0	1231.5	1175.9	1102.1	1028.4	954.6
97.5°	1506.8	1453.2	1399.7	1346.1	1292.6	1239.0	1185.5	1131.9	1059.5	987.0	914.6
100°	1448.3	1396.6	1344.8	1293.0	1241.2	1189.5	1137.7	1085.9	1015.5	945.0	874.6
102.5°	1398.1	1347.2	1296.3	1245.5	1194.6	1143.7	1092.8	1041.9	973.2	904.6	835.9
105°	1344.3	1294.6	1244.8	1195.0	1145.2	1095.5	1045.7	995.9	929.2	862.6	795.9
107.5°	1284.3	1236.6	1188.8	1141.0	1093.2	1045.5	997.7	949.9	885.0	820.1	755.3
110°	1227.5	1181.2	1135.0	1088.8	1042.6	996.3	950.1	903.9	841.0	778.1	715.3



TEST NUMBER: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	1171.7	1126.6	1081.5	1036.3	991.2	946.1	901.0	855.9	794.8	733.7	672.6
115°	1106.6	1063.9	1021.2	978.6	935.9	893.2	850.6	807.9	748.8	689.7	630.6
117.5°	1048.8	1007.2	965.7	924.1	882.6	841.0	799.5	757.9	701.0	644.1	587.3
120°	987.9	947.9	907.9	867.9	827.9	787.9	747.9	707.9	653.7	599.5	545.3
122.5°	925.0	886.6	848.1	809.7	771.2	732.8	694.3	655.9	604.6	553.3	501.9
125°	861.7	824.6	787.5	750.4	713.3	676.2	639.1	602.0	554.0	506.0	458.0
127.5°	796.8	761.3	725.7	690.2	654.6	619.1	583.5	548.0	503.6	459.1	414.7
130°	729.5	695.3	661.1	626.8	592.6	558.4	524.2	490.0	449.6	409.1	368.7
132.5°	663.9	631.9	599.9	568.0	536.0	504.0	472.0	440.0	402.9	365.8	328.7
135°	597.9	567.9	537.9	508.0	478.0	448.0	418.0	388.0	354.4	320.9	287.3
137.5°	532.7	506.0	479.3	452.7	426.0	399.3	372.7	346.0	314.9	283.8	252.7
140°	468.2	443.3	418.4	393.6	368.7	343.8	318.9	294.0	266.7	239.3	212.0
142.5°	403.8	382.7	361.6	340.4	319.3	298.2	277.1	256.0	231.3	206.7	182.0
145°	346.7	328.0	309.3	290.7	272.0	253.3	234.7	216.0	194.4	172.9	151.3
147.5°	293.6	277.3	261.1	244.9	228.7	212.4	196.2	180.0	161.8	143.6	125.3
150°	243.1	228.7	214.2	199.8	185.3	170.9	156.4	142.0	127.3	112.7	98.0
152.5°	194.7	182.0	169.3	156.7	144.0	131.3	118.7	106.0	94.9	83.8	72.7
155°	149.8	138.7	127.6	116.4	105.3	94.2	83.1	72.0	64.2	56.4	48.7
157.5°	105.8	96.7	87.6	78.4	69.3	60.2	51.1	42.0	37.3	32.7	28.0
160°	67.6	61.3	55.1	48.9	42.7	36.4	30.2	24.0	21.3	18.7	16.0
162.5°	35.3	32.0	28.7	25.3	22.0	18.7	15.3	12.0	10.7	9.3	8.0
165°	16.4	14.7	12.9	11.1	9.3	7.6	5.8	4.0	3.6	3.1	2.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1119.9	1117.9	1115.9	1113.9	1111.9	1109.9	1110.3	1110.8	1111.2	1111.7	1112.1
5°	1134.6	1131.2	1127.9	1124.6	1121.2	1117.9	1117.0	1116.1	1115.2	1114.3	1113.5
7.5°	1150.6	1145.2	1139.9	1134.6	1129.2	1123.9	1121.5	1119.0	1116.6	1114.1	1111.7
10°	1164.6	1157.2	1149.9	1142.6	1135.2	1127.9	1123.9	1119.9	1115.9	1111.9	1107.9
12.5°	1177.9	1167.9	1157.9	1147.9	1137.9	1127.9	1122.1	1116.3	1110.6	1104.8	1099.0
15°	1191.2	1178.6	1165.9	1153.2	1140.6	1127.9	1120.1	1112.3	1104.6	1096.8	1089.0
17.5°	1205.0	1188.8	1172.6	1156.3	1140.1	1123.9	1114.1	1104.3	1094.6	1084.8	1075.0
20°	1219.9	1199.9	1179.9	1159.9	1139.9	1119.9	1108.1	1096.3	1084.6	1072.8	1061.0
22.5°	1233.9	1209.9	1185.9	1161.9	1137.9	1113.9	1099.9	1085.9	1071.9	1057.9	1043.9
25°	1246.8	1219.0	1191.2	1163.5	1135.7	1107.9	1091.2	1074.6	1057.9	1041.2	1024.6
27.5°	1257.7	1226.1	1194.6	1163.0	1131.5	1099.9	1080.3	1060.8	1041.2	1021.7	1002.1
30°	1267.5	1232.3	1197.2	1162.1	1127.0	1091.9	1069.7	1047.5	1025.2	1003.0	980.8
32.5°	1275.9	1237.9	1199.9	1161.9	1123.9	1085.9	1060.1	1034.3	1008.6	982.8	957.0
35°	1284.6	1243.2	1201.9	1160.6	1119.2	1077.9	1048.8	1019.7	990.6	961.5	932.3
37.5°	1294.3	1249.5	1204.6	1159.7	1114.8	1069.9	1037.2	1004.6	971.9	939.2	906.6
40°	1304.1	1255.7	1207.2	1158.8	1110.3	1061.9	1025.7	989.5	953.2	917.0	880.8
42.5°	1309.9	1257.9	1205.9	1153.9	1101.9	1049.9	1010.3	970.8	931.2	891.7	852.1
45°	1315.7	1260.1	1204.6	1149.0	1093.5	1037.9	995.0	952.1	909.2	866.3	823.5
47.5°	1318.3	1259.5	1200.6	1141.7	1082.8	1023.9	977.7	931.5	885.3	839.1	792.8
50°	1321.2	1258.6	1195.9	1133.2	1070.6	1007.9	958.6	909.3	859.9	810.6	761.3
52.5°	1321.0	1254.8	1188.6	1122.3	1056.1	989.9	937.7	885.5	833.3	781.1	728.8
55°	1322.8	1253.0	1183.2	1113.5	1043.7	973.9	917.9	861.9	805.9	749.9	694.0
57.5°	1323.7	1250.1	1176.6	1103.0	1029.5	955.9	897.0	838.1	779.3	720.4	661.5
60°	1322.6	1245.2	1167.9	1090.6	1013.2	935.9	874.6	813.3	751.9	690.6	629.3
62.5°	1320.3	1239.5	1158.6	1077.7	996.8	915.9	852.4	788.8	725.3	661.7	598.2
65°	1315.2	1230.6	1145.9	1061.2	976.6	891.9	826.4	760.8	695.3	629.7	564.2
67.5°	1306.8	1219.0	1131.2	1043.5	955.7	867.9	799.9	731.9	663.9	595.9	528.0
70°	1291.2	1200.6	1109.9	1019.2	928.6	837.9	769.0	700.1	631.3	562.4	493.5
72.5°	1271.2	1178.6	1085.9	993.2	900.6	807.9	737.9	667.9	597.9	527.9	458.0
75°	1239.2	1146.6	1053.9	961.2	868.6	775.9	705.2	634.6	563.9	493.3	422.6
77.5°	1201.0	1108.8	1016.6	924.3	832.1	739.9	669.2	598.6	527.9	457.3	386.6
80°	1152.1	1061.7	971.2	880.8	790.3	699.9	630.1	560.4	490.6	420.8	351.1
82.5°	1100.6	1013.2	925.9	838.6	751.2	663.9	594.8	525.7	456.6	387.5	318.4
85°	1048.1	963.7	879.2	794.8	710.3	625.9	558.6	491.3	423.9	356.6	289.3
87.5°	998.6	917.3	836.0	754.6	673.3	592.0	526.7	461.3	396.0	330.7	265.3
90°	954.2	875.7	797.3	718.9	640.4	562.0	499.6	437.1	374.7	312.2	249.8
92.5°	917.9	842.0	766.0	690.0	614.0	538.0	478.2	418.4	358.7	298.9	239.1
95°	880.8	807.1	733.3	659.5	585.8	512.0	455.1	398.2	341.3	284.4	227.6
97.5°	842.2	769.7	697.3	624.9	552.4	480.0	426.7	373.3	320.0	266.7	213.3
100°	804.2	733.7	663.3	592.9	522.4	452.0	401.8	351.6	301.3	251.1	200.9
102.5°	767.3	698.6	630.0	561.3	492.7	424.0	376.9	329.8	282.7	235.6	188.4
105°	729.3	662.6	596.0	529.3	462.7	396.0	352.0	308.0	264.0	220.0	176.0
107.5°	690.4	625.5	560.6	495.8	430.9	366.0	325.3	284.7	244.0	203.3	162.7
110°	652.4	589.5	526.6	463.8	400.9	338.0	300.4	262.9	225.3	187.8	150.2



TEST NUMBER: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	611.5	550.4	489.3	428.2	367.1	306.0	272.0	238.0	204.0	170.0	136.0
115°	571.5	512.4	453.3	394.2	335.1	276.0	245.3	214.7	184.0	153.3	122.7
117.5°	530.4	473.5	416.6	359.8	302.9	246.0	218.7	191.3	164.0	136.7	109.3
120°	491.1	436.8	382.6	328.4	274.2	220.0	195.6	171.1	146.7	122.2	97.8
122.5°	450.6	399.3	348.0	296.6	245.3	194.0	172.4	150.9	129.3	107.8	86.2
125°	410.0	362.0	314.0	266.0	218.0	170.0	151.1	132.2	113.3	94.4	75.6
127.5°	370.2	325.8	281.3	236.9	192.4	148.0	131.6	115.1	98.7	82.2	65.8
130°	328.2	287.8	247.3	206.9	166.4	126.0	112.0	98.0	84.0	70.0	56.0
132.5°	291.6	254.4	217.3	180.2	143.1	106.0	94.2	82.4	70.7	58.9	47.1
135°	253.8	220.2	186.7	153.1	119.6	86.0	76.4	66.9	57.3	47.8	38.2
137.5°	221.6	190.4	159.3	128.2	97.1	66.0	58.7	51.3	44.0	36.7	29.3
140°	184.7	157.3	130.0	102.7	75.3	48.0	42.7	37.3	32.0	26.7	21.3
142.5°	157.3	132.7	108.0	83.3	58.7	34.0	30.2	26.4	22.7	18.9	15.1
145°	129.8	108.2	86.7	65.1	43.6	22.0	19.6	17.1	14.7	12.2	9.8
147.5°	107.1	88.9	70.7	52.4	34.2	16.0	14.2	12.4	10.7	8.9	7.1
150°	83.3	68.7	54.0	39.3	24.7	10.0	8.9	7.8	6.7	5.6	4.4
152.5°	61.6	50.4	39.3	28.2	17.1	6.0	5.3	4.7	4.0	3.3	2.7
155°	40.9	33.1	25.3	17.6	9.8	2.0	1.8	1.6	1.3	1.1	0.9
157.5°	23.3	18.7	14.0	9.3	4.7	0.0	0.0	0.0	0.0	0.0	0.0
160°	13.3	10.7	8.0	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	6.7	5.3	4.0	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.2	1.8	1.3	0.9	0.4	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: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1112.6	1113.0	1113.5	1113.9	1111.5	1109.0	1106.6	1104.1	1101.7	1099.2	1096.8
5°	1112.6	1111.7	1110.8	1109.9	1106.1	1102.3	1098.6	1094.8	1091.0	1087.2	1083.5
7.5°	1109.2	1106.8	1104.3	1101.9	1097.0	1092.1	1087.2	1082.3	1077.5	1072.6	1067.7
10°	1103.9	1099.9	1095.9	1091.9	1085.9	1079.9	1073.9	1067.9	1061.9	1055.9	1049.9
12.5°	1093.2	1087.5	1081.7	1075.9	1069.2	1062.6	1055.9	1049.2	1042.6	1035.9	1029.2
15°	1081.2	1073.5	1065.7	1057.9	1050.6	1043.2	1035.9	1028.6	1021.2	1013.9	1006.6
17.5°	1065.2	1055.5	1045.7	1035.9	1028.3	1020.8	1013.2	1005.7	998.1	990.6	983.0
20°	1049.2	1037.5	1025.7	1013.9	1005.9	997.9	989.9	981.9	973.9	965.9	957.9
22.5°	1029.9	1015.9	1001.9	987.9	980.1	972.3	964.6	956.8	949.0	941.2	933.5
25°	1007.9	991.2	974.6	957.9	950.3	942.8	935.2	927.7	920.1	912.6	905.0
27.5°	982.6	963.0	943.5	923.9	917.2	910.6	903.9	897.2	890.6	883.9	877.2
30°	958.6	936.3	914.1	891.9	886.3	880.8	875.2	869.7	864.1	858.6	853.0
32.5°	931.2	905.5	879.7	853.9	849.9	845.9	841.9	837.9	833.9	829.9	825.9
35°	903.2	874.1	845.0	815.9	814.3	812.8	811.2	809.7	808.1	806.6	805.0
37.5°	873.9	841.2	808.6	775.9	777.2	778.6	779.9	781.2	782.6	783.9	785.2
40°	844.6	808.3	772.1	735.9	739.9	743.9	747.9	751.9	755.9	759.9	763.9
42.5°	812.6	773.0	733.5	693.9	700.8	707.7	714.6	721.5	728.3	735.2	742.1
45°	780.6	737.7	694.8	651.9	661.5	671.0	680.6	690.1	699.7	709.2	718.8
47.5°	746.6	700.4	654.2	608.0	620.4	632.9	645.3	657.7	670.2	682.6	695.0
50°	712.0	662.6	613.3	564.0	579.1	594.2	609.3	624.4	639.5	654.6	669.7
52.5°	676.6	624.4	572.2	520.0	537.8	555.5	573.3	591.1	608.8	626.6	644.4
55°	638.0	582.0	526.0	470.0	491.1	512.2	533.3	554.4	575.5	596.6	617.7
57.5°	602.6	543.8	484.9	426.0	449.5	473.1	496.6	520.2	543.7	567.3	590.8
60°	568.0	506.6	445.3	384.0	409.8	435.6	461.3	487.1	512.9	538.7	564.4
62.5°	534.6	471.1	407.5	344.0	371.6	399.1	426.7	454.2	481.8	509.3	536.9
65°	498.6	433.1	367.5	302.0	331.3	360.7	390.0	419.3	448.7	478.0	507.3
67.5°	460.0	392.0	324.0	256.0	287.6	319.1	350.7	382.2	413.8	445.3	476.9
70°	424.6	355.8	286.9	218.0	250.9	283.8	316.7	349.6	382.4	415.3	448.2
72.5°	388.0	318.0	248.0	178.0	211.8	245.6	279.3	313.1	346.9	380.7	414.4
75°	352.0	281.3	210.7	140.0	174.9	209.8	244.7	279.6	314.4	349.3	384.2
77.5°	316.0	245.3	174.7	104.0	139.8	175.6	211.3	247.1	282.9	318.7	354.4
80°	281.3	211.5	141.8	72.0	108.4	144.9	181.3	217.8	254.2	290.7	327.1
82.5°	249.3	180.2	111.1	42.0	78.7	115.3	152.0	188.7	225.3	262.0	298.7
85°	222.0	154.6	87.3	20.0	56.2	92.4	128.7	164.9	201.1	237.3	273.6
87.5°	200.0	134.7	69.3	4.0	39.3	74.7	110.0	145.3	180.7	216.0	251.3
90°	187.3	124.9	62.4	0.0	33.6	67.1	100.7	134.2	167.8	201.3	234.9
92.5°	179.3	119.6	59.8	0.0	32.4	64.9	97.3	129.8	162.2	194.7	227.1
95°	170.7	113.8	56.9	0.0	30.9	61.8	92.7	123.6	154.4	185.3	216.2
97.5°	160.0	106.7	53.3	0.0	29.6	59.1	88.7	118.2	147.8	177.3	206.9
100°	150.7	100.4	50.2	0.0	28.2	56.4	84.7	112.9	141.1	169.3	197.6
102.5°	141.3	94.2	47.1	0.0	26.7	53.3	80.0	106.7	133.3	160.0	186.7
105°	132.0	88.0	44.0	0.0	25.3	50.7	76.0	101.3	126.7	152.0	177.3
107.5°	122.0	81.3	40.7	0.0	23.8	47.6	71.3	95.1	118.9	142.7	166.4
110°	112.7	75.1	37.6	0.0	22.0	44.0	66.0	88.0	110.0	132.0	154.0



TEST NUMBER: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	102.0	68.0	34.0	0.0	20.2	40.4	60.7	80.9	101.1	121.3	141.6
115°	92.0	61.3	30.7	0.0	18.2	36.4	54.7	72.9	91.1	109.3	127.6
117.5°	82.0	54.7	27.3	0.0	16.4	32.9	49.3	65.8	82.2	98.7	115.1
120°	73.3	48.9	24.4	0.0	14.4	28.9	43.3	57.8	72.2	86.7	101.1
122.5°	64.7	43.1	21.6	0.0	12.7	25.3	38.0	50.7	63.3	76.0	88.7
125°	56.7	37.8	18.9	0.0	10.9	21.8	32.7	43.6	54.4	65.3	76.2
127.5°	49.3	32.9	16.4	0.0	8.9	17.8	26.7	35.6	44.4	53.3	62.2
130°	42.0	28.0	14.0	0.0	7.1	14.2	21.3	28.4	35.6	42.7	49.8
132.5°	35.3	23.6	11.8	0.0	5.6	11.1	16.7	22.2	27.8	33.3	38.9
135°	28.7	19.1	9.6	0.0	4.2	8.4	12.7	16.9	21.1	25.3	29.6
137.5°	22.0	14.7	7.3	0.0	2.9	5.8	8.7	11.6	14.4	17.3	20.2
140°	16.0	10.7	5.3	0.0	1.8	3.6	5.3	7.1	8.9	10.7	12.4
142.5°	11.3	7.6	3.8	0.0	0.9	1.8	2.7	3.6	4.4	5.3	6.2
145°	7.3	4.9	2.4	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6
147.5°	5.3	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.7	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1094.3	1091.9	1090.8	1089.7	1088.6	1087.5	1086.3	1085.2	1084.1	1083.0	1081.9
5°	1079.7	1075.9	1074.1	1072.3	1070.6	1068.8	1067.0	1065.2	1063.5	1061.7	1059.9
7.5°	1062.8	1057.9	1055.5	1053.0	1050.6	1048.1	1045.7	1043.2	1040.8	1038.3	1035.9
10°	1043.9	1037.9	1035.2	1032.6	1029.9	1027.2	1024.6	1021.9	1019.2	1016.6	1013.9
12.5°	1022.6	1015.9	1013.5	1011.0	1008.6	1006.1	1003.7	1001.2	998.8	996.3	993.9
15°	999.2	991.9	990.6	989.2	987.9	986.6	985.2	983.9	982.6	981.2	979.9
17.5°	975.5	967.9	968.1	968.3	968.6	968.8	969.0	969.2	969.5	969.7	969.9
20°	949.9	941.9	944.8	947.7	950.6	953.5	956.3	959.2	962.1	965.0	967.9
22.5°	925.7	917.9	924.6	931.2	937.9	944.6	951.2	957.9	964.6	971.2	977.9
25°	897.5	889.9	900.8	911.7	922.6	933.5	944.3	955.2	966.1	977.0	987.9
27.5°	870.6	863.9	878.6	893.2	907.9	922.6	937.2	951.9	966.6	981.2	995.9
30°	847.5	841.9	859.9	877.9	895.9	913.9	931.9	949.9	967.9	985.9	1003.9
32.5°	821.9	817.9	838.8	859.7	880.6	901.5	922.3	943.2	964.1	985.0	1005.9
35°	803.5	801.9	825.0	848.1	871.2	894.3	917.5	940.6	963.7	986.8	1009.9
37.5°	786.6	787.9	812.8	837.7	862.6	887.5	912.3	937.2	962.1	987.0	1011.9
40°	767.9	771.9	798.6	825.2	851.9	878.6	905.2	931.9	958.6	985.2	1011.9
42.5°	749.0	755.9	784.3	812.8	841.2	869.7	898.1	926.6	955.0	983.5	1011.9
45°	728.3	737.9	768.1	798.3	828.6	858.8	889.0	919.2	949.5	979.7	1009.9
47.5°	707.5	719.9	751.9	783.9	815.9	847.9	879.9	911.9	943.9	975.9	1007.9
50°	684.8	699.9	733.5	767.0	800.6	834.1	867.7	901.2	934.8	968.3	1001.9
52.5°	662.1	679.9	714.8	749.7	784.6	819.5	854.3	889.2	924.1	959.0	993.9
55°	638.8	659.9	696.1	732.3	768.6	804.8	841.0	877.2	913.5	949.7	985.9
57.5°	614.4	637.9	675.7	713.5	751.2	789.0	826.8	864.6	902.3	940.1	977.9
60°	590.2	616.0	655.1	694.2	733.3	772.4	811.5	850.6	889.7	928.8	967.9
62.5°	564.4	592.0	632.4	672.9	713.3	753.7	794.2	834.6	875.0	915.5	955.9
65°	536.7	566.0	608.0	650.0	692.0	734.0	775.9	817.9	859.9	901.9	943.9
67.5°	508.4	540.0	582.9	625.8	668.6	711.5	754.4	797.3	840.1	883.0	925.9
70°	481.1	514.0	557.8	601.5	645.3	689.1	732.8	776.6	820.4	864.1	907.9
72.5°	448.2	482.0	526.9	571.8	616.6	661.5	706.4	751.3	796.1	841.0	885.9
75°	419.1	454.0	499.1	544.2	589.3	634.4	679.5	724.6	769.7	814.8	859.9
77.5°	390.2	426.0	471.1	516.2	561.3	606.4	651.5	696.6	741.7	786.8	831.9
80°	363.6	400.0	444.2	488.4	532.6	576.8	621.1	665.3	709.5	753.7	797.9
82.5°	335.3	372.0	416.0	460.0	504.0	548.0	591.9	635.9	679.9	723.9	767.9
85°	309.8	346.0	389.1	432.2	475.3	518.4	561.5	604.6	647.7	690.8	733.9
87.5°	286.7	322.0	364.4	406.9	449.3	491.7	534.2	576.6	619.0	661.5	703.9
90°	268.4	302.0	343.5	385.1	426.6	468.2	509.7	551.3	592.8	634.4	675.9
92.5°	259.6	292.0	332.4	372.9	413.3	453.7	494.2	534.6	575.0	615.5	655.9
95°	247.1	278.0	318.0	358.0	398.0	438.0	477.9	517.9	557.9	597.9	637.9
97.5°	236.4	266.0	305.3	344.7	384.0	423.3	462.7	502.0	541.3	580.7	620.0
100°	225.8	254.0	292.9	331.8	370.7	409.6	448.4	487.3	526.2	565.1	604.0
102.5°	213.3	240.0	278.2	316.4	354.7	392.9	431.1	469.3	507.6	545.8	584.0
105°	202.7	228.0	265.1	302.2	339.3	376.4	413.6	450.7	487.8	524.9	562.0
107.5°	190.2	214.0	250.2	286.4	322.7	358.9	395.1	431.3	467.6	503.8	540.0
110°	176.0	198.0	233.8	269.6	305.3	341.1	376.9	412.7	448.4	484.2	520.0



TEST NUMBER: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	161.8	182.0	216.2	250.4	284.7	318.9	353.1	387.3	421.6	455.8	490.0
115°	145.8	164.0	197.6	231.1	264.7	298.2	331.8	365.3	398.9	432.4	466.0
117.5°	131.6	148.0	180.7	213.3	246.0	278.7	311.3	344.0	376.7	409.3	442.0
120°	115.6	130.0	161.8	193.6	225.3	257.1	288.9	320.7	352.4	384.2	416.0
122.5°	101.3	114.0	144.7	175.3	206.0	236.7	267.3	298.0	328.7	359.3	390.0
125°	87.1	98.0	127.1	156.2	185.3	214.4	243.6	272.7	301.8	330.9	360.0
127.5°	71.1	80.0	107.3	134.7	162.0	189.3	216.7	244.0	271.3	298.7	326.0
130°	56.9	64.0	88.4	112.9	137.3	161.8	186.2	210.7	235.1	259.6	284.0
132.5°	44.4	50.0	71.6	93.1	114.7	136.2	157.8	179.3	200.9	222.4	244.0
135°	33.8	38.0	56.9	75.8	94.7	113.6	132.4	151.3	170.2	189.1	208.0
137.5°	23.1	26.0	42.4	58.9	75.3	91.8	108.2	124.7	141.1	157.6	174.0
140°	14.2	16.0	30.2	44.4	58.7	72.9	87.1	101.3	115.6	129.8	144.0
142.5°	7.1	8.0	20.2	32.4	44.7	56.9	69.1	81.3	93.6	105.8	118.0
145°	1.8	2.0	12.0	22.0	32.0	42.0	52.0	62.0	72.0	82.0	92.0
147.5°	0.0	0.0	7.8	15.6	23.3	31.1	38.9	46.7	54.4	62.2	70.0
150°	0.0	0.0	5.6	11.1	16.7	22.2	27.8	33.3	38.9	44.4	50.0
152.5°	0.0	0.0	3.8	7.6	11.3	15.1	18.9	22.7	26.4	30.2	34.0
155°	0.0	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0
157.5°	0.0	0.0	0.7	1.3	2.0	2.7	3.3	4.0	4.7	5.3	6.0
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: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1081.0	1080.1	1079.2	1078.3	1077.5	1076.6	1075.7	1074.8	1073.9	1073.0	1072.1
5°	1058.3	1056.8	1055.2	1053.7	1052.1	1050.6	1049.0	1047.5	1045.9	1045.5	1045.0
7.5°	1034.6	1033.2	1031.9	1030.6	1029.2	1027.9	1026.6	1025.2	1023.9	1023.5	1023.0
10°	1013.2	1012.6	1011.9	1011.2	1010.6	1009.9	1009.2	1008.6	1007.9	1007.5	1007.0
12.5°	994.3	994.8	995.2	995.7	996.1	996.6	997.0	997.5	997.9	997.9	997.9
15°	981.9	983.9	985.9	987.9	989.9	991.9	993.9	995.9	997.9	999.5	1001.0
17.5°	975.2	980.6	985.9	991.2	996.6	1001.9	1007.2	1012.6	1017.9	1020.1	1022.3
20°	975.9	983.9	991.9	999.9	1007.9	1015.9	1023.9	1031.9	1039.9	1042.8	1045.7
22.5°	987.2	996.6	1005.9	1015.2	1024.6	1033.9	1043.2	1052.6	1061.9	1065.0	1068.1
25°	998.3	1008.8	1019.2	1029.7	1040.1	1050.6	1061.0	1071.5	1081.9	1085.5	1089.0
27.5°	1007.5	1019.0	1030.6	1042.1	1053.7	1065.2	1076.8	1088.3	1099.9	1103.9	1107.9
30°	1016.6	1029.2	1041.9	1054.6	1067.2	1079.9	1092.6	1105.2	1117.9	1122.3	1126.8
32.5°	1019.9	1033.9	1047.9	1061.9	1075.9	1089.9	1103.9	1117.9	1131.9	1137.5	1143.0
35°	1025.2	1040.6	1055.9	1071.2	1086.6	1101.9	1117.2	1132.6	1147.9	1153.9	1159.9
37.5°	1028.6	1045.2	1061.9	1078.6	1095.2	1111.9	1128.6	1145.2	1161.9	1168.6	1175.2
40°	1030.1	1048.3	1066.6	1084.8	1103.0	1121.2	1139.5	1157.7	1175.9	1183.2	1190.6
42.5°	1031.5	1051.0	1070.6	1090.1	1109.7	1129.2	1148.8	1168.3	1187.9	1195.9	1203.9
45°	1031.0	1052.1	1073.2	1094.3	1115.5	1136.6	1157.7	1178.8	1199.9	1208.8	1217.7
47.5°	1030.6	1053.2	1075.9	1098.6	1121.2	1143.9	1166.6	1189.2	1211.9	1221.5	1231.0
50°	1026.3	1050.8	1075.2	1099.7	1124.1	1148.6	1173.0	1197.5	1221.9	1232.1	1242.3
52.5°	1020.1	1046.3	1072.6	1098.8	1125.0	1151.2	1177.5	1203.7	1229.9	1241.0	1252.1
55°	1013.9	1041.9	1069.9	1097.9	1125.9	1153.9	1181.9	1209.9	1237.9	1249.5	1261.0
57.5°	1007.2	1036.6	1065.9	1095.2	1124.6	1153.9	1183.2	1212.6	1241.9	1253.9	1265.9
60°	998.6	1029.2	1059.9	1090.6	1121.2	1151.9	1182.6	1213.2	1243.9	1256.1	1268.3
62.5°	987.7	1019.5	1051.2	1083.0	1114.8	1146.6	1178.3	1210.1	1241.9	1254.6	1267.2
65°	976.3	1008.8	1041.2	1073.7	1106.1	1138.6	1171.0	1203.5	1235.9	1248.6	1261.2
67.5°	959.2	992.6	1025.9	1059.2	1092.6	1125.9	1159.2	1192.6	1225.9	1238.8	1251.7
70°	941.9	975.9	1009.9	1043.9	1077.9	1111.9	1145.9	1179.9	1213.9	1226.6	1239.2
72.5°	919.9	953.9	987.9	1021.9	1055.9	1089.9	1123.9	1157.9	1191.9	1204.6	1217.2
75°	894.1	928.3	962.6	996.8	1031.0	1065.2	1099.5	1133.7	1167.9	1180.3	1192.8
77.5°	865.9	899.9	933.9	967.9	1001.9	1035.9	1069.9	1103.9	1137.9	1150.1	1162.3
80°	831.7	865.5	899.2	933.0	966.8	1000.6	1034.3	1068.1	1101.9	1113.9	1125.9
82.5°	801.0	834.1	867.2	900.3	933.5	966.6	999.7	1032.8	1065.9	1077.9	1089.9
85°	766.6	799.2	831.9	864.6	897.2	929.9	962.6	995.2	1027.9	1039.7	1051.5
87.5°	735.7	767.5	799.2	831.0	862.8	894.6	926.3	958.1	989.9	1001.7	1013.5
90°	707.0	738.1	769.2	800.3	831.5	862.6	893.7	924.8	955.9	967.5	979.0
92.5°	686.3	716.8	747.2	777.7	808.1	838.6	869.0	899.5	929.9	941.2	952.6
95°	667.7	697.5	727.2	757.0	786.8	816.6	846.3	876.1	905.9	917.0	928.1
97.5°	649.1	678.2	707.3	736.4	765.5	794.6	823.7	852.8	881.9	892.8	903.7
100°	632.4	660.9	689.3	717.7	746.2	774.6	803.0	831.5	859.9	870.3	880.8
102.5°	612.0	640.0	668.0	696.0	723.9	751.9	779.9	807.9	835.9	846.1	856.3
105°	589.5	617.1	644.6	672.2	699.7	727.3	754.8	782.4	809.9	820.3	830.8
107.5°	567.1	594.2	621.3	648.4	675.5	702.6	729.7	756.8	783.9	793.9	803.9
110°	546.0	572.0	598.0	624.0	649.9	675.9	701.9	727.9	753.9	763.9	773.9



TEST NUMBER: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	516.0	542.0	568.0	594.0	619.9	645.9	671.9	697.9	723.9	733.5	743.0
115°	491.3	516.6	542.0	567.3	592.6	617.9	643.3	668.6	693.9	703.2	712.6
117.5°	466.2	490.4	514.6	538.8	563.1	587.3	611.5	635.7	659.9	669.0	678.1
120°	439.3	462.6	486.0	509.3	532.6	555.9	579.3	602.6	625.9	635.0	644.1
122.5°	412.4	434.9	457.3	479.8	502.2	524.7	547.1	569.6	592.0	600.4	608.9
125°	381.8	403.6	425.3	447.1	468.9	490.7	512.4	534.2	556.0	564.2	572.4
127.5°	347.3	368.7	390.0	411.3	432.7	454.0	475.3	496.7	518.0	526.2	534.4
130°	305.1	326.2	347.3	368.4	389.6	410.7	431.8	452.9	474.0	482.2	490.4
132.5°	265.1	286.2	307.3	328.4	349.6	370.7	391.8	412.9	434.0	442.0	450.0
135°	228.4	248.9	269.3	289.8	310.2	330.7	351.1	371.6	392.0	398.9	405.8
137.5°	192.9	211.8	230.7	249.6	268.4	287.3	306.2	325.1	344.0	351.1	358.2
140°	160.9	177.8	194.7	211.6	228.4	245.3	262.2	279.1	296.0	303.1	310.2
142.5°	132.7	147.3	162.0	176.7	191.3	206.0	220.7	235.3	250.0	257.3	264.7
145°	104.7	117.3	130.0	142.7	155.3	168.0	180.7	193.3	206.0	213.6	221.1
147.5°	80.7	91.3	102.0	112.7	123.3	134.0	144.7	155.3	166.0	173.3	180.7
150°	58.9	67.8	76.7	85.6	94.4	103.3	112.2	121.1	130.0	137.1	144.2
152.5°	41.1	48.2	55.3	62.4	69.6	76.7	83.8	90.9	98.0	104.7	111.3
155°	23.6	29.1	34.7	40.2	45.8	51.3	56.9	62.4	68.0	74.2	80.4
157.5°	10.2	14.4	18.7	22.9	27.1	31.3	35.6	39.8	44.0	48.9	53.8
160°	2.4	4.9	7.3	9.8	12.2	14.7	17.1	19.6	22.0	26.0	30.0
162.5°	0.7	1.3	2.0	2.7	3.3	4.0	4.7	5.3	6.0	8.7	11.3
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8
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: P201406

CATALOG NUMBER: 8LBLELD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1071.2	1070.3	1069.5	1068.6	1067.7	1066.8	1065.9	1067.0	1068.1	1069.2	1070.3
5°	1044.6	1044.1	1043.7	1043.2	1042.8	1042.3	1041.9	1042.3	1042.8	1043.2	1043.7
7.5°	1022.6	1022.1	1021.7	1021.2	1020.8	1020.3	1019.9	1020.6	1021.2	1021.9	1022.6
10°	1006.6	1006.1	1005.7	1005.2	1004.8	1004.3	1003.9	1004.1	1004.3	1004.6	1004.8
12.5°	997.9	997.9	997.9	997.9	997.9	997.9	997.9	997.5	997.0	996.6	996.1
15°	1002.6	1004.1	1005.7	1007.2	1008.8	1010.3	1011.9	1010.1	1008.3	1006.6	1004.8
17.5°	1024.6	1026.8	1029.0	1031.2	1033.5	1035.7	1037.9	1035.5	1033.0	1030.6	1028.1
20°	1048.6	1051.5	1054.3	1057.2	1060.1	1063.0	1065.9	1062.6	1059.2	1055.9	1052.6
22.5°	1071.2	1074.3	1077.5	1080.6	1083.7	1086.8	1089.9	1086.1	1082.3	1078.6	1074.8
25°	1092.6	1096.1	1099.7	1103.2	1106.8	1110.3	1113.9	1109.7	1105.5	1101.2	1097.0
27.5°	1111.9	1115.9	1119.9	1123.9	1127.9	1131.9	1135.9	1131.2	1126.6	1121.9	1117.2
30°	1131.2	1135.7	1140.1	1144.6	1149.0	1153.5	1157.9	1152.6	1147.2	1141.9	1136.6
32.5°	1148.6	1154.1	1159.7	1165.2	1170.8	1176.3	1181.9	1175.7	1169.5	1163.2	1157.0
35°	1165.9	1171.9	1177.9	1183.9	1189.9	1195.9	1201.9	1195.2	1188.6	1181.9	1175.2
37.5°	1181.9	1188.6	1195.2	1201.9	1208.6	1215.2	1221.9	1214.8	1207.7	1200.6	1193.5
40°	1197.9	1205.2	1212.6	1219.9	1227.2	1234.6	1241.9	1234.1	1226.3	1218.6	1210.8
42.5°	1211.9	1219.9	1227.9	1235.9	1243.9	1251.9	1259.9	1251.7	1243.5	1235.2	1227.0
45°	1226.6	1235.5	1244.3	1253.2	1262.1	1271.0	1279.9	1271.0	1262.1	1253.2	1244.3
47.5°	1240.6	1250.1	1259.7	1269.2	1278.8	1288.3	1297.9	1288.1	1278.3	1268.6	1258.8
50°	1252.6	1262.8	1273.0	1283.2	1293.5	1303.7	1313.9	1303.7	1293.5	1283.2	1273.0
52.5°	1263.2	1274.3	1285.5	1296.6	1307.7	1318.8	1329.9	1318.8	1307.7	1296.6	1285.5
55°	1272.6	1284.1	1295.7	1307.2	1318.8	1330.3	1341.9	1330.3	1318.8	1307.2	1295.7
57.5°	1277.9	1289.9	1301.9	1313.9	1325.9	1337.9	1349.9	1338.1	1326.3	1314.6	1302.8
60°	1280.6	1292.8	1305.0	1317.2	1329.5	1341.7	1353.9	1342.1	1330.3	1318.6	1306.8
62.5°	1279.9	1292.6	1305.2	1317.9	1330.6	1343.2	1355.9	1343.7	1331.5	1319.2	1307.0
65°	1273.9	1286.6	1299.2	1311.9	1324.6	1337.2	1349.9	1337.7	1325.5	1313.2	1301.0
67.5°	1264.6	1277.5	1290.3	1303.2	1316.1	1329.0	1341.9	1329.5	1317.0	1304.6	1292.1
70°	1251.9	1264.6	1277.2	1289.9	1302.6	1315.2	1327.9	1315.5	1303.0	1290.6	1278.1
72.5°	1229.9	1242.6	1255.2	1267.9	1280.6	1293.2	1305.9	1293.7	1281.5	1269.2	1257.0
75°	1205.2	1217.7	1230.1	1242.6	1255.0	1267.5	1279.9	1267.9	1255.9	1243.9	1231.9
77.5°	1174.6	1186.8	1199.0	1211.2	1223.5	1235.7	1247.9	1235.9	1223.9	1211.9	1199.9
80°	1137.9	1149.9	1161.9	1173.9	1185.9	1197.9	1209.9	1198.1	1186.3	1174.6	1162.8
82.5°	1101.9	1113.9	1125.9	1137.9	1149.9	1161.9	1173.9	1162.1	1150.3	1138.6	1126.8
85°	1063.2	1075.0	1086.8	1098.6	1110.3	1122.1	1133.9	1122.1	1110.3	1098.6	1086.8
87.5°	1025.2	1037.0	1048.8	1060.6	1072.3	1084.1	1095.9	1084.1	1072.3	1060.6	1048.8
90°	990.6	1002.1	1013.7	1025.2	1036.8	1048.3	1059.9	1048.3	1036.8	1025.2	1013.7
92.5°	963.9	975.2	986.6	997.9	1009.2	1020.6	1031.9	1020.6	1009.2	997.9	986.6
95°	939.2	950.3	961.5	972.6	983.7	994.8	1005.9	995.0	984.1	973.2	962.3
97.5°	914.6	925.5	936.3	947.2	958.1	969.0	979.9	969.5	959.0	948.6	938.1
100°	891.2	901.7	912.1	922.6	933.0	943.5	953.9	943.7	933.5	923.2	913.0
102.5°	866.6	876.8	887.0	897.2	907.5	917.7	927.9	917.7	907.5	897.2	887.0
105°	841.2	851.7	862.1	872.6	883.0	893.5	903.9	893.7	883.5	873.2	863.0
107.5°	813.9	823.9	833.9	843.9	853.9	863.9	873.9	863.9	853.9	843.9	833.9
110°	783.9	793.9	803.9	813.9	823.9	833.9	843.9	833.9	823.9	813.9	803.9



TEST NUMBER: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	752.6	762.1	771.7	781.2	790.8	800.3	809.9	800.3	790.8	781.2	771.7
115°	721.9	731.2	740.6	749.9	759.2	768.6	777.9	768.6	759.2	749.9	740.6
117.5°	687.2	696.3	705.5	714.6	723.7	732.8	741.9	732.8	723.7	714.6	705.5
120°	653.2	662.3	671.5	680.6	689.7	698.8	707.9	699.2	690.6	681.9	673.2
122.5°	617.3	625.7	634.2	642.6	651.0	659.5	667.9	659.7	651.5	643.3	635.1
125°	580.6	588.8	597.1	605.3	613.5	621.7	629.9	621.9	613.9	605.9	597.9
127.5°	542.7	550.9	559.1	567.3	575.6	583.8	592.0	584.4	576.9	569.3	561.8
130°	498.7	506.9	515.1	523.3	531.6	539.8	548.0	540.4	532.9	525.3	517.8
132.5°	458.0	466.0	474.0	482.0	490.0	498.0	506.0	498.4	490.9	483.3	475.8
135°	412.7	419.6	426.4	433.3	440.2	447.1	454.0	447.6	441.1	434.7	428.2
137.5°	365.3	372.4	379.6	386.7	393.8	400.9	408.0	401.8	395.6	389.3	383.1
140°	317.3	324.4	331.6	338.7	345.8	352.9	360.0	354.4	348.9	343.3	337.8
142.5°	272.0	279.3	286.7	294.0	301.3	308.7	316.0	311.1	306.2	301.3	296.4
145°	228.7	236.2	243.8	251.3	258.9	266.4	274.0	269.6	265.1	260.7	256.2
147.5°	188.0	195.3	202.7	210.0	217.3	224.7	232.0	228.4	224.9	221.3	217.8
150°	151.3	158.4	165.6	172.7	179.8	186.9	194.0	190.9	187.8	184.7	181.6
152.5°	118.0	124.7	131.3	138.0	144.7	151.3	158.0	155.3	152.7	150.0	147.3
155°	86.7	92.9	99.1	105.3	111.6	117.8	124.0	121.6	119.1	116.7	114.2
157.5°	58.7	63.6	68.4	73.3	78.2	83.1	88.0	86.4	84.9	83.3	81.8
160°	34.0	38.0	42.0	46.0	50.0	54.0	58.0	56.7	55.3	54.0	52.7
162.5°	14.0	16.7	19.3	22.0	24.7	27.3	30.0	29.1	28.2	27.3	26.4
165°	2.7	3.6	4.4	5.3	6.2	7.1	8.0	7.8	7.6	7.3	7.1
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: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1071.5	1072.6	1073.7	1074.8	1075.9	1077.5	1079.0	1080.6	1082.1	1083.7	1085.2
5°	1044.1	1044.6	1045.0	1045.5	1045.9	1048.3	1050.8	1053.2	1055.7	1058.1	1060.6
7.5°	1023.2	1023.9	1024.6	1025.2	1025.9	1028.1	1030.3	1032.6	1034.8	1037.0	1039.2
10°	1005.0	1005.2	1005.5	1005.7	1005.9	1007.9	1009.9	1011.9	1013.9	1015.9	1017.9
12.5°	995.7	995.2	994.8	994.3	993.9	995.2	996.6	997.9	999.2	1000.6	1001.9
15°	1003.0	1001.2	999.5	997.7	995.9	995.2	994.6	993.9	993.2	992.6	991.9
17.5°	1025.7	1023.2	1020.8	1018.3	1015.9	1011.7	1007.5	1003.2	999.0	994.8	990.6
20°	1049.2	1045.9	1042.6	1039.2	1035.9	1029.0	1022.1	1015.2	1008.3	1001.5	994.6
22.5°	1071.0	1067.2	1063.5	1059.7	1055.9	1047.7	1039.5	1031.2	1023.0	1014.8	1006.6
25°	1092.8	1088.6	1084.3	1080.1	1075.9	1066.1	1056.3	1046.6	1036.8	1027.0	1017.2
27.5°	1112.6	1107.9	1103.2	1098.6	1093.9	1082.8	1071.7	1060.6	1049.5	1038.3	1027.2
30°	1131.2	1125.9	1120.6	1115.2	1109.9	1097.7	1085.5	1073.2	1061.0	1048.8	1036.6
32.5°	1150.8	1144.6	1138.3	1132.1	1125.9	1112.1	1098.3	1084.6	1070.8	1057.0	1043.2
35°	1168.6	1161.9	1155.2	1148.6	1141.9	1126.8	1111.7	1096.6	1081.5	1066.3	1051.2
37.5°	1186.3	1179.2	1172.1	1165.0	1157.9	1141.5	1125.0	1108.6	1092.1	1075.7	1059.2
40°	1203.0	1195.2	1187.5	1179.7	1171.9	1154.1	1136.3	1118.6	1100.8	1083.0	1065.2
42.5°	1218.8	1210.6	1202.3	1194.1	1185.9	1166.6	1147.2	1127.9	1108.6	1089.2	1069.9
45°	1235.5	1226.6	1217.7	1208.8	1199.9	1178.8	1157.7	1136.6	1115.5	1094.3	1073.2
47.5°	1249.0	1239.2	1229.5	1219.7	1209.9	1187.2	1164.6	1141.9	1119.2	1096.6	1073.9
50°	1262.8	1252.6	1242.3	1232.1	1221.9	1197.5	1173.0	1148.6	1124.1	1099.7	1075.2
52.5°	1274.3	1263.2	1252.1	1241.0	1229.9	1203.7	1177.5	1151.2	1125.0	1098.8	1072.6
55°	1284.1	1272.6	1261.0	1249.5	1237.9	1210.1	1182.3	1154.6	1126.8	1099.0	1071.2
57.5°	1291.0	1279.2	1267.5	1255.7	1243.9	1214.6	1185.2	1155.9	1126.6	1097.2	1067.9
60°	1295.0	1283.2	1271.5	1259.7	1247.9	1217.0	1186.1	1155.2	1124.3	1093.5	1062.6
62.5°	1294.8	1282.6	1270.3	1258.1	1245.9	1213.9	1181.9	1149.9	1117.9	1085.9	1053.9
65°	1288.8	1276.6	1264.3	1252.1	1239.9	1207.0	1174.1	1141.2	1108.3	1075.5	1042.6
67.5°	1279.7	1267.2	1254.8	1242.3	1229.9	1196.3	1162.8	1129.2	1095.7	1062.1	1028.6
70°	1265.7	1253.2	1240.8	1228.3	1215.9	1181.7	1147.5	1113.2	1079.0	1044.8	1010.6
72.5°	1244.8	1232.6	1220.3	1208.1	1195.9	1161.7	1127.5	1093.2	1059.0	1024.8	990.6
75°	1219.9	1207.9	1195.9	1183.9	1171.9	1137.5	1103.0	1068.6	1034.1	999.7	965.2
77.5°	1187.9	1175.9	1163.9	1151.9	1139.9	1105.7	1071.5	1037.2	1003.0	968.8	934.6
80°	1151.0	1139.2	1127.5	1115.7	1103.9	1070.1	1036.3	1002.6	968.8	935.0	901.2
82.5°	1115.0	1103.2	1091.5	1079.7	1067.9	1034.6	1001.2	967.9	934.6	901.2	867.9
85°	1075.0	1063.2	1051.5	1039.7	1027.9	995.5	963.0	930.6	898.1	865.7	833.2
87.5°	1037.0	1025.2	1013.5	1001.7	989.9	958.6	927.2	895.9	864.6	833.2	801.9
90°	1002.1	990.6	979.0	967.5	955.9	925.2	894.6	863.9	833.2	802.6	771.9
92.5°	975.2	963.9	952.6	941.2	929.9	900.3	870.8	841.2	811.7	782.1	752.6
95°	951.5	940.6	929.7	918.8	907.9	879.0	850.1	821.2	792.3	763.5	734.6
97.5°	927.7	917.2	906.8	896.3	885.9	857.2	828.6	799.9	771.2	742.6	713.9
100°	902.8	892.6	882.3	872.1	861.9	833.7	805.5	777.3	749.1	720.8	692.6
102.5°	876.8	866.6	856.3	846.1	835.9	808.4	780.8	753.3	725.7	698.2	670.6
105°	852.8	842.6	832.3	822.1	811.9	784.8	757.7	730.6	703.5	676.4	649.3
107.5°	823.9	813.9	803.9	793.9	783.9	757.7	731.5	705.3	679.1	652.8	626.6
110°	793.9	783.9	773.9	763.9	753.9	728.6	703.3	677.9	652.6	627.3	602.0



TEST NUMBER: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	762.1	752.6	743.0	733.5	723.9	699.7	675.5	651.3	627.1	602.8	578.6
115°	731.2	721.9	712.6	703.2	693.9	669.7	645.5	621.3	597.1	572.8	548.6
117.5°	696.3	687.2	678.1	669.0	659.9	636.8	613.7	590.6	567.5	544.4	521.3
120°	664.6	655.9	647.2	638.6	629.9	607.2	584.6	561.9	539.3	516.6	494.0
122.5°	626.8	618.6	610.4	602.2	594.0	572.4	550.9	529.3	507.8	486.2	464.7
125°	590.0	582.0	574.0	566.0	558.0	537.1	516.2	495.3	474.4	453.6	432.7
127.5°	554.2	546.7	539.1	531.6	524.0	503.1	482.2	461.3	440.4	419.6	398.7
130°	510.2	502.7	495.1	487.6	480.0	460.2	440.4	420.7	400.9	381.1	361.3
132.5°	468.2	460.7	453.1	445.6	438.0	419.1	400.2	381.3	362.4	343.6	324.7
135°	421.8	415.3	408.9	402.4	396.0	378.7	361.3	344.0	326.7	309.3	292.0
137.5°	376.9	370.7	364.4	358.2	352.0	336.4	320.9	305.3	289.8	274.2	258.7
140°	332.2	326.7	321.1	315.6	310.0	296.0	282.0	268.0	254.0	240.0	226.0
142.5°	291.6	286.7	281.8	276.9	272.0	259.3	246.7	234.0	221.3	208.7	196.0
145°	251.8	247.3	242.9	238.4	234.0	222.7	211.3	200.0	188.7	177.3	166.0
147.5°	214.2	210.7	207.1	203.6	200.0	190.0	180.0	170.0	160.0	150.0	140.0
150°	178.4	175.3	172.2	169.1	166.0	157.3	148.7	140.0	131.3	122.7	114.0
152.5°	144.7	142.0	139.3	136.7	134.0	126.4	118.9	111.3	103.8	96.2	88.7
155°	111.8	109.3	106.9	104.4	102.0	95.6	89.1	82.7	76.2	69.8	63.3
157.5°	80.2	78.7	77.1	75.6	74.0	68.7	63.3	58.0	52.7	47.3	42.0
160°	51.3	50.0	48.7	47.3	46.0	42.2	38.4	34.7	30.9	27.1	23.3
162.5°	25.6	24.7	23.8	22.9	22.0	20.0	18.0	16.0	14.0	12.0	10.0
165°	6.9	6.7	6.4	6.2	6.0	5.3	4.7	4.0	3.3	2.7	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: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1086.8	1088.3	1089.9	1090.6	1091.2	1091.9	1092.6	1093.2	1093.9	1094.6	1095.2
5°	1063.0	1065.5	1067.9	1069.2	1070.6	1071.9	1073.2	1074.6	1075.9	1077.2	1078.6
7.5°	1041.5	1043.7	1045.9	1047.7	1049.5	1051.2	1053.0	1054.8	1056.6	1058.3	1060.1
10°	1019.9	1021.9	1023.9	1026.1	1028.3	1030.6	1032.8	1035.0	1037.2	1039.5	1041.7
12.5°	1003.2	1004.6	1005.9	1007.5	1009.0	1010.6	1012.1	1013.7	1015.2	1016.8	1018.3
15°	991.2	990.6	989.9	990.6	991.2	991.9	992.6	993.2	993.9	994.6	995.2
17.5°	986.3	982.1	977.9	976.8	975.7	974.6	973.5	972.3	971.2	970.1	969.0
20°	987.7	980.8	973.9	970.3	966.8	963.2	959.7	956.1	952.6	949.0	945.5
22.5°	998.3	990.1	981.9	974.6	967.2	959.9	952.6	945.2	937.9	930.6	923.2
25°	1007.5	997.7	987.9	976.8	965.7	954.6	943.5	932.3	921.2	910.1	899.0
27.5°	1016.1	1005.0	993.9	979.2	964.6	949.9	935.2	920.6	905.9	891.2	876.6
30°	1024.3	1012.1	999.9	981.9	963.9	945.9	927.9	909.9	891.9	873.9	855.9
32.5°	1029.5	1015.7	1001.9	981.0	960.1	939.2	918.3	897.5	876.6	855.7	834.8
35°	1036.1	1021.0	1005.9	982.6	959.2	935.9	912.6	889.2	865.9	842.6	819.2
37.5°	1042.8	1026.3	1009.9	984.3	958.8	933.2	907.7	882.1	856.6	831.0	805.5
40°	1047.5	1029.7	1011.9	984.6	957.2	929.9	902.6	875.2	847.9	820.6	793.2
42.5°	1050.6	1031.2	1011.9	982.8	953.7	924.6	895.5	866.3	837.2	808.1	779.0
45°	1052.1	1031.0	1009.9	979.2	948.6	917.9	887.2	856.6	825.9	795.2	764.6
47.5°	1051.2	1028.6	1005.9	973.5	941.0	908.6	876.1	843.7	811.2	778.8	746.3
50°	1050.8	1026.3	1001.9	967.9	933.9	899.9	865.9	831.9	797.9	763.9	729.9
52.5°	1046.3	1020.1	993.9	958.6	923.2	887.9	852.6	817.2	781.9	746.6	711.2
55°	1043.5	1015.7	987.9	951.0	914.1	877.2	840.3	803.5	766.6	729.7	692.8
57.5°	1038.6	1009.2	979.9	941.5	903.0	864.6	826.1	787.7	749.2	710.8	672.3
60°	1031.7	1000.8	969.9	930.1	890.4	850.6	810.8	771.1	731.3	691.5	651.8
62.5°	1021.9	989.9	957.9	916.8	875.7	834.6	793.5	752.4	711.3	670.2	629.1
65°	1009.7	976.8	943.9	901.7	859.5	817.3	775.1	732.8	690.6	648.4	606.2
67.5°	995.0	961.5	927.9	884.6	841.3	797.9	754.6	711.3	668.0	624.6	581.3
70°	976.3	942.1	907.9	863.9	819.9	775.9	731.9	688.0	644.0	600.0	556.0
72.5°	956.3	922.1	887.9	842.6	797.3	751.9	706.6	661.3	616.0	570.6	525.3
75°	930.8	896.3	861.9	816.6	771.3	725.9	680.6	635.3	590.0	544.6	499.3
77.5°	900.3	866.1	831.9	786.8	741.7	696.6	651.5	606.4	561.3	516.2	471.1
80°	867.5	833.7	799.9	755.2	710.6	665.9	621.3	576.6	532.0	487.3	442.7
82.5°	834.6	801.2	767.9	723.9	679.9	635.9	591.9	548.0	504.0	460.0	416.0
85°	800.8	768.3	735.9	692.6	649.3	605.9	562.6	519.3	476.0	432.6	389.3
87.5°	770.6	739.2	707.9	665.2	622.6	579.9	537.3	494.6	452.0	409.3	366.7
90°	741.2	710.6	679.9	638.4	596.8	555.3	513.7	472.2	430.6	389.1	347.5
92.5°	723.0	693.5	663.9	623.0	582.1	541.3	500.4	459.5	418.6	377.8	336.9
95°	705.7	676.8	647.9	607.5	567.0	526.6	486.2	445.7	405.3	364.9	324.4
97.5°	685.2	656.6	627.9	588.4	548.8	509.3	469.7	430.2	390.6	351.1	311.5
100°	664.4	636.2	608.0	569.3	530.7	492.0	453.3	414.7	376.0	337.3	298.7
102.5°	643.1	615.5	588.0	550.0	512.0	474.0	436.0	398.0	360.0	322.0	284.0
105°	622.2	595.1	568.0	530.7	493.3	456.0	418.7	381.3	344.0	306.7	269.3
107.5°	600.4	574.2	548.0	511.3	474.7	438.0	401.3	364.7	328.0	291.3	254.7
110°	576.6	551.3	526.0	490.0	454.0	418.0	382.0	346.0	310.0	274.0	238.0



TEST NUMBER: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	554.4	530.2	506.0	470.2	434.4	398.7	362.9	327.1	291.3	255.6	219.8
115°	524.4	500.2	476.0	441.6	407.1	372.7	338.2	303.8	269.3	234.9	200.4
117.5°	498.2	475.1	452.0	418.2	384.4	350.7	316.9	283.1	249.3	215.6	181.8
120°	471.3	448.7	426.0	393.3	360.7	328.0	295.3	262.7	230.0	197.3	164.7
122.5°	443.1	421.6	400.0	368.7	337.3	306.0	274.7	243.3	212.0	180.7	149.3
125°	411.8	390.9	370.0	340.4	310.9	281.3	251.8	222.2	192.7	163.1	133.6
127.5°	377.8	356.9	336.0	308.7	281.3	254.0	226.7	199.3	172.0	144.7	117.3
130°	341.6	321.8	302.0	276.9	251.8	226.7	201.6	176.4	151.3	126.2	101.1
132.5°	305.8	286.9	268.0	245.6	223.1	200.7	178.2	155.8	133.3	110.9	88.4
135°	274.7	257.3	240.0	219.3	198.7	178.0	157.3	136.7	116.0	95.3	74.7
137.5°	243.1	227.6	212.0	193.1	174.2	155.3	136.4	117.6	98.7	79.8	60.9
140°	212.0	198.0	184.0	167.1	150.2	133.3	116.4	99.6	82.7	65.8	48.9
142.5°	183.3	170.7	158.0	143.1	128.2	113.3	98.4	83.6	68.7	53.8	38.9
145°	154.7	143.3	132.0	119.1	106.2	93.3	80.4	67.6	54.7	41.8	28.9
147.5°	130.0	120.0	110.0	98.9	87.8	76.7	65.6	54.4	43.3	32.2	21.1
150°	105.3	96.7	88.0	78.9	69.8	60.7	51.6	42.4	33.3	24.2	15.1
152.5°	81.1	73.6	66.0	58.9	51.8	44.7	37.6	30.4	23.3	16.2	9.1
155°	56.9	50.4	44.0	39.3	34.7	30.0	25.3	20.7	16.0	11.3	6.7
157.5°	36.7	31.3	26.0	23.1	20.2	17.3	14.4	11.6	8.7	5.8	2.9
160°	19.6	15.8	12.0	10.7	9.3	8.0	6.7	5.3	4.0	2.7	1.3
162.5°	8.0	6.0	4.0	3.6	3.1	2.7	2.2	1.8	1.3	0.9	0.4
165°	1.3	0.7	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: P201406

CATALOG NUMBER: 8LBLEDD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1095.9	1099.5	1103.0	1106.6	1110.1	1113.7	1117.2	1120.8	1124.3	1127.9	1127.7
5°	1079.9	1084.6	1089.2	1093.9	1098.6	1103.2	1107.9	1112.6	1117.2	1121.9	1123.2
7.5°	1061.9	1067.7	1073.5	1079.2	1085.0	1090.8	1096.6	1102.3	1108.1	1113.9	1116.8
10°	1043.9	1050.3	1056.8	1063.2	1069.7	1076.1	1082.6	1089.0	1095.5	1101.9	1106.6
12.5°	1019.9	1027.0	1034.1	1041.2	1048.3	1055.5	1062.6	1069.7	1076.8	1083.9	1090.6
15°	995.9	1003.9	1011.9	1019.9	1027.9	1035.9	1043.9	1051.9	1059.9	1067.9	1076.1
17.5°	967.9	976.6	985.2	993.9	1002.6	1011.2	1019.9	1028.6	1037.2	1045.9	1056.1
20°	941.9	950.6	959.2	967.9	976.6	985.2	993.9	1002.6	1011.2	1019.9	1032.6
22.5°	915.9	924.6	933.2	941.9	950.6	959.2	967.9	976.6	985.2	993.9	1009.0
25°	887.9	896.3	904.8	913.2	921.7	930.1	938.6	947.0	955.5	963.9	981.5
27.5°	861.9	869.7	877.5	885.2	893.0	900.8	908.6	916.3	924.1	931.9	952.1
30°	837.9	844.6	851.2	857.9	864.6	871.2	877.9	884.6	891.2	897.9	921.0
32.5°	813.9	819.0	824.1	829.2	834.3	839.5	844.6	849.7	854.8	859.9	886.3
35°	795.9	798.8	801.7	804.6	807.5	810.3	813.2	816.1	819.0	821.9	851.7
37.5°	779.9	780.1	780.3	780.6	780.8	781.0	781.2	781.5	781.7	781.9	815.0
40°	765.9	763.2	760.6	757.9	755.2	752.6	749.9	747.2	744.6	741.9	778.3
42.5°	749.9	744.1	738.3	732.6	726.8	721.0	715.2	709.5	703.7	697.9	737.7
45°	733.9	725.2	716.6	707.9	699.2	690.6	681.9	673.2	664.6	655.9	698.8
47.5°	713.9	702.6	691.3	679.9	668.6	657.3	646.0	634.6	623.3	612.0	658.2
50°	695.9	681.5	667.0	652.6	638.2	623.7	609.3	594.9	580.4	566.0	615.5
52.5°	675.9	658.8	641.7	624.6	607.5	590.4	573.3	556.2	539.1	522.0	574.4
55°	655.9	635.7	615.5	595.3	575.1	554.8	534.6	514.4	494.2	474.0	529.8
57.5°	633.9	611.2	588.6	565.9	543.3	520.6	498.0	475.3	452.7	430.0	488.4
60°	612.0	586.9	561.8	536.7	511.6	486.4	461.3	436.2	411.1	386.0	447.3
62.5°	588.0	560.9	533.8	506.7	479.6	452.4	425.3	398.2	371.1	344.0	407.5
65°	564.0	534.7	505.3	476.0	446.7	417.3	388.0	358.7	329.3	300.0	365.8
67.5°	538.0	506.9	475.8	444.7	413.6	382.4	351.3	320.2	289.1	258.0	325.3
70°	512.0	479.1	446.2	413.3	380.4	347.6	314.7	281.8	248.9	216.0	285.1
72.5°	480.0	446.2	412.4	378.7	344.9	311.1	277.3	243.6	209.8	176.0	246.0
75°	454.0	418.9	383.8	348.7	313.6	278.4	243.3	208.2	173.1	138.0	208.4
77.5°	426.0	390.2	354.4	318.7	282.9	247.1	211.3	175.6	139.8	104.0	174.4
80°	398.0	361.8	325.6	289.3	253.1	216.9	180.7	144.4	108.2	72.0	141.8
82.5°	372.0	335.6	299.1	262.7	226.2	189.8	153.3	116.9	80.4	44.0	112.7
85°	346.0	310.0	274.0	238.0	202.0	166.0	130.0	94.0	58.0	22.0	89.1
87.5°	324.0	288.9	253.8	218.7	183.6	148.4	113.3	78.2	43.1	8.0	72.9
90°	306.0	272.0	238.0	204.0	170.0	136.0	102.0	68.0	34.0	0.0	62.4
92.5°	296.0	263.3	230.7	198.0	165.3	132.7	100.0	67.3	34.7	2.0	61.6
95°	284.0	252.7	221.3	190.0	158.7	127.3	96.0	64.7	33.3	2.0	58.7
97.5°	272.0	242.0	212.0	182.0	152.0	122.0	92.0	62.0	32.0	2.0	55.1
100°	260.0	231.3	202.7	174.0	145.3	116.7	88.0	59.3	30.7	2.0	52.0
102.5°	246.0	218.7	191.3	164.0	136.7	109.3	82.0	54.7	27.3	0.0	46.9
105°	232.0	206.4	180.9	155.3	129.8	104.2	78.7	53.1	27.6	2.0	45.3
107.5°	218.0	194.0	170.0	146.0	122.0	98.0	74.0	50.0	26.0	2.0	42.0
110°	202.0	179.8	157.6	135.3	113.1	90.9	68.7	46.4	24.2	2.0	38.7



TEST NUMBER: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	184.0	163.8	143.6	123.3	103.1	82.9	62.7	42.4	22.2	2.0	35.3
115°	166.0	147.8	129.6	111.3	93.1	74.9	56.7	38.4	20.2	2.0	32.0
117.5°	148.0	131.8	115.6	99.3	83.1	66.9	50.7	34.4	18.2	2.0	28.7
120°	132.0	117.6	103.1	88.7	74.2	59.8	45.3	30.9	16.4	2.0	25.6
122.5°	118.0	105.1	92.2	79.3	66.4	53.6	40.7	27.8	14.9	2.0	22.7
125°	104.0	92.7	81.3	70.0	58.7	47.3	36.0	24.7	13.3	2.0	19.8
127.5°	90.0	80.2	70.4	60.7	50.9	41.1	31.3	21.6	11.8	2.0	16.9
130°	76.0	67.8	59.6	51.3	43.1	34.9	26.7	18.4	10.2	2.0	14.2
132.5°	66.0	58.9	51.8	44.7	37.6	30.4	23.3	16.2	9.1	2.0	12.0
135°	54.0	48.2	42.4	36.7	30.9	25.1	19.3	13.6	7.8	2.0	9.8
137.5°	42.0	37.6	33.1	28.7	24.2	19.8	15.3	10.9	6.4	2.0	7.8
140°	32.0	28.7	25.3	22.0	18.7	15.3	12.0	8.7	5.3	2.0	6.2
142.5°	24.0	21.6	19.1	16.7	14.2	11.8	9.3	6.9	4.4	2.0	4.9
145°	16.0	14.4	12.9	11.3	9.8	8.2	6.7	5.1	3.6	2.0	4.2
147.5°	10.0	9.1	8.2	7.3	6.4	5.6	4.7	3.8	2.9	2.0	3.8
150°	6.0	5.6	5.1	4.7	4.2	3.8	3.3	2.9	2.4	2.0	3.3
152.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.1
155°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7
157.5°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.4
160°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.2
162.5°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.0
165°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	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: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1127.5	1127.2	1127.0	1126.8	1126.6	1126.3	1126.1	1125.9	1127.0	1128.1	1129.2
5°	1124.6	1125.9	1127.2	1128.6	1129.9	1131.2	1132.6	1133.9	1136.6	1139.2	1141.9
7.5°	1119.7	1122.6	1125.5	1128.3	1131.2	1134.1	1137.0	1139.9	1144.1	1148.3	1152.6
10°	1111.2	1115.9	1120.6	1125.2	1129.9	1134.6	1139.2	1143.9	1150.1	1156.3	1162.6
12.5°	1097.2	1103.9	1110.6	1117.2	1123.9	1130.6	1137.2	1143.9	1152.6	1161.2	1169.9
15°	1084.3	1092.6	1100.8	1109.0	1117.2	1125.5	1133.7	1141.9	1153.5	1165.0	1176.6
17.5°	1066.3	1076.6	1086.8	1097.0	1107.2	1117.5	1127.7	1137.9	1153.0	1168.1	1183.2
20°	1045.2	1057.9	1070.6	1083.2	1095.9	1108.6	1121.2	1133.9	1153.0	1172.1	1191.2
22.5°	1024.1	1039.2	1054.3	1069.5	1084.6	1099.7	1114.8	1129.9	1152.8	1175.7	1198.6
25°	999.0	1016.6	1034.1	1051.7	1069.2	1086.8	1104.3	1121.9	1148.8	1175.7	1202.6
27.5°	972.3	992.6	1012.8	1033.0	1053.2	1073.5	1093.7	1113.9	1144.8	1175.7	1206.6
30°	944.1	967.2	990.3	1013.5	1036.6	1059.7	1082.8	1105.9	1140.6	1175.2	1209.9
32.5°	912.8	939.2	965.7	992.1	1018.6	1045.0	1071.5	1097.9	1135.9	1173.9	1211.9
35°	881.5	911.2	941.0	970.8	1000.6	1030.3	1060.1	1089.9	1131.2	1172.6	1213.9
37.5°	848.1	881.2	914.3	947.5	980.6	1013.7	1046.8	1079.9	1124.8	1169.7	1214.6
40°	814.8	851.2	887.7	924.1	960.6	997.0	1033.5	1069.9	1118.1	1166.3	1214.6
42.5°	777.5	817.2	857.0	896.8	936.6	976.3	1016.1	1055.9	1107.7	1159.5	1211.2
45°	741.7	784.6	827.5	870.3	913.2	956.1	999.0	1041.9	1097.2	1152.6	1207.9
47.5°	704.4	750.6	796.8	843.1	889.3	935.5	981.7	1027.9	1086.6	1145.2	1203.9
50°	665.1	714.6	764.2	813.7	863.3	912.8	962.4	1011.9	1073.9	1135.9	1197.9
52.5°	626.9	679.3	731.7	784.2	836.6	889.0	941.5	993.9	1059.2	1124.6	1189.9
55°	585.5	641.3	697.1	752.8	808.6	864.4	920.1	975.9	1045.0	1114.1	1183.2
57.5°	546.9	605.3	663.7	722.2	780.6	839.0	897.5	955.9	1028.8	1101.7	1174.6
60°	508.6	570.0	631.3	692.6	753.9	815.3	876.6	937.9	1014.6	1091.2	1167.9
62.5°	471.1	534.6	598.2	661.7	725.3	788.8	852.4	915.9	996.3	1076.8	1157.2
65°	431.5	497.3	563.1	628.8	694.6	760.4	826.1	891.9	976.1	1060.3	1144.6
67.5°	392.6	460.0	527.3	594.6	661.9	729.3	796.6	863.9	951.7	1039.5	1127.2
70°	354.2	423.3	492.4	561.5	630.6	699.7	768.8	837.9	928.1	1018.3	1108.6
72.5°	316.0	386.0	456.0	525.9	595.9	665.9	735.9	805.9	897.7	989.5	1081.2
75°	278.9	349.3	419.7	490.2	560.6	631.0	701.5	771.9	863.9	955.9	1047.9
77.5°	244.9	315.3	385.7	456.2	526.6	597.0	667.5	737.9	829.0	920.1	1011.2
80°	211.5	281.3	351.1	420.8	490.6	560.4	630.1	699.9	789.0	878.1	967.2
82.5°	181.3	250.0	318.6	387.3	455.9	524.6	593.2	661.9	748.8	835.7	922.6
85°	156.2	223.3	290.4	357.5	424.6	491.7	558.8	625.9	709.7	793.5	877.2
87.5°	137.8	202.7	267.6	332.4	397.3	462.2	527.1	592.0	672.9	753.8	834.6
90°	124.9	187.3	249.8	312.2	374.7	437.1	499.6	562.0	640.0	718.0	796.0
92.5°	121.1	180.7	240.2	299.8	359.3	418.9	478.4	538.0	613.5	689.1	764.6
95°	115.3	172.0	228.7	285.3	342.0	398.7	455.3	512.0	585.3	658.6	732.0
97.5°	108.2	161.3	214.4	267.6	320.7	373.8	426.9	480.0	552.0	624.0	696.0
100°	102.0	152.0	202.0	252.0	302.0	352.0	402.0	452.0	522.7	593.3	664.0
102.5°	93.8	140.7	187.6	234.4	281.3	328.2	375.1	422.0	491.1	560.2	629.3
105°	88.7	132.0	175.3	218.7	262.0	305.3	348.7	392.0	459.3	526.6	594.0
107.5°	82.0	122.0	162.0	202.0	242.0	282.0	322.0	362.0	427.5	493.1	558.6
110°	75.3	112.0	148.7	185.3	222.0	258.7	295.3	332.0	395.8	459.5	523.3



TEST NUMBER: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	68.7	102.0	135.3	168.7	202.0	235.3	268.7	302.0	364.0	426.0	488.0
115°	62.0	92.0	122.0	152.0	182.0	212.0	242.0	272.0	331.8	391.5	451.3
117.5°	55.3	82.0	108.7	135.3	162.0	188.7	215.3	242.0	299.8	357.5	415.3
120°	49.1	72.7	96.2	119.8	143.3	166.9	190.4	214.0	269.3	324.6	380.0
122.5°	43.3	64.0	84.7	105.3	126.0	146.7	167.3	188.0	240.2	292.4	344.6
125°	37.6	55.3	73.1	90.9	108.7	126.4	144.2	162.0	210.9	259.8	308.7
127.5°	31.8	46.7	61.6	76.4	91.3	106.2	121.1	136.0	180.9	225.8	270.7
130°	26.4	38.7	50.9	63.1	75.3	87.6	99.8	112.0	151.1	190.2	229.3
132.5°	22.0	32.0	42.0	52.0	62.0	72.0	82.0	92.0	126.0	160.0	194.0
135°	17.6	25.3	33.1	40.9	48.7	56.4	64.2	72.0	101.3	130.7	160.0
137.5°	13.6	19.3	25.1	30.9	36.7	42.4	48.2	54.0	79.3	104.7	130.0
140°	10.4	14.7	18.9	23.1	27.3	31.6	35.8	40.0	61.6	83.1	104.7
142.5°	7.8	10.7	13.6	16.4	19.3	22.2	25.1	28.0	46.2	64.4	82.7
145°	6.4	8.7	10.9	13.1	15.3	17.6	19.8	22.0	36.9	51.8	66.7
147.5°	5.6	7.3	9.1	10.9	12.7	14.4	16.2	18.0	29.8	41.6	53.3
150°	4.7	6.0	7.3	8.7	10.0	11.3	12.7	14.0	22.9	31.8	40.7
152.5°	4.2	5.3	6.4	7.6	8.7	9.8	10.9	12.0	18.2	24.4	30.7
155°	3.3	4.0	4.7	5.3	6.0	6.7	7.3	8.0	12.2	16.4	20.7
157.5°	2.9	3.3	3.8	4.2	4.7	5.1	5.6	6.0	8.4	10.9	13.3
160°	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	5.3	6.7	8.0
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	3.3	4.0
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.4	2.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201406

CATALOG NUMBER: 8LBLELD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1130.3	1131.5	1132.6	1133.7	1134.8	1135.9	1136.1	1136.3	1136.6	1136.8	1137.0
5°	1144.6	1147.2	1149.9	1152.6	1155.2	1157.9	1159.2	1160.6	1161.9	1163.2	1164.6
7.5°	1156.8	1161.0	1165.2	1169.5	1173.7	1177.9	1180.8	1183.7	1186.6	1189.5	1192.3
10°	1168.8	1175.0	1181.2	1187.5	1193.7	1199.9	1204.6	1209.2	1213.9	1218.6	1223.2
12.5°	1178.6	1187.2	1195.9	1204.6	1213.2	1221.9	1229.0	1236.1	1243.2	1250.3	1257.5
15°	1188.1	1199.7	1211.2	1222.8	1234.3	1245.9	1255.7	1265.5	1275.2	1285.0	1294.8
17.5°	1198.3	1213.5	1228.6	1243.7	1258.8	1273.9	1286.6	1299.2	1311.9	1324.6	1337.2
20°	1210.3	1229.5	1248.6	1267.7	1286.8	1305.9	1320.8	1335.7	1350.6	1365.5	1380.3
22.5°	1221.5	1244.3	1267.2	1290.1	1313.0	1335.9	1353.0	1370.1	1387.2	1404.3	1421.5
25°	1229.5	1256.3	1283.2	1310.1	1337.0	1363.9	1383.7	1403.5	1423.2	1443.0	1462.8
27.5°	1237.5	1268.3	1299.2	1330.1	1361.0	1391.9	1413.5	1435.0	1456.6	1478.1	1499.7
30°	1244.6	1279.2	1313.9	1348.6	1383.2	1417.9	1441.7	1465.5	1489.2	1513.0	1536.8
32.5°	1249.9	1287.9	1325.9	1363.9	1401.9	1439.9	1466.3	1492.8	1519.2	1545.7	1572.1
35°	1255.2	1296.6	1337.9	1379.2	1420.6	1461.9	1491.2	1520.6	1549.9	1579.2	1608.6
37.5°	1259.5	1304.3	1349.2	1394.1	1439.0	1483.9	1515.7	1547.5	1579.2	1611.0	1642.8
40°	1262.8	1311.0	1359.2	1407.5	1455.7	1503.9	1538.8	1573.7	1608.6	1643.5	1678.3
42.5°	1263.0	1314.8	1366.6	1418.3	1470.1	1521.9	1559.9	1597.9	1635.9	1673.9	1711.9
45°	1263.2	1318.6	1373.9	1429.2	1484.6	1539.9	1581.4	1623.0	1664.5	1706.1	1747.6
47.5°	1262.6	1321.2	1379.9	1438.6	1497.2	1555.9	1601.2	1646.5	1691.9	1737.2	1782.5
50°	1259.9	1321.9	1383.9	1445.9	1507.9	1569.9	1619.9	1669.9	1719.9	1769.9	1819.8
52.5°	1255.2	1320.6	1385.9	1451.2	1516.6	1581.9	1636.3	1690.8	1745.2	1799.6	1854.1
55°	1252.3	1321.5	1390.6	1459.7	1528.8	1597.9	1656.6	1715.2	1773.9	1832.5	1891.2
57.5°	1247.5	1320.3	1393.2	1466.1	1539.0	1611.9	1675.0	1738.1	1801.2	1864.3	1927.4
60°	1244.6	1321.2	1397.9	1474.6	1551.2	1627.9	1694.3	1760.8	1827.2	1893.6	1960.1
62.5°	1237.7	1318.1	1398.6	1479.0	1559.5	1639.9	1709.7	1779.4	1849.2	1919.0	1988.7
65°	1228.8	1313.0	1397.2	1481.5	1565.7	1649.9	1722.1	1794.3	1866.5	1938.7	2011.0
67.5°	1215.0	1302.8	1390.6	1478.3	1566.1	1653.9	1728.1	1802.3	1876.5	1950.7	2025.0
70°	1198.8	1289.0	1379.2	1469.5	1559.7	1649.9	1725.0	1800.1	1875.2	1950.3	2025.4
72.5°	1173.0	1264.8	1356.6	1448.3	1540.1	1631.9	1707.2	1782.5	1857.9	1933.2	2008.5
75°	1139.9	1231.9	1323.9	1415.9	1507.9	1599.9	1674.6	1749.2	1823.9	1898.5	1973.2
77.5°	1102.3	1193.5	1284.6	1375.7	1466.8	1557.9	1630.6	1703.2	1775.9	1848.5	1921.2
80°	1056.3	1145.5	1234.6	1323.7	1412.8	1501.9	1572.3	1642.8	1713.2	1783.6	1854.1
82.5°	1009.5	1096.3	1183.2	1270.1	1357.0	1443.9	1511.7	1579.4	1647.2	1715.0	1782.7
85°	961.0	1044.8	1128.6	1212.3	1296.1	1379.9	1445.2	1510.5	1575.9	1641.2	1706.5
87.5°	915.5	996.4	1077.3	1158.1	1239.0	1319.9	1382.6	1445.2	1507.9	1570.5	1633.2
90°	874.0	951.9	1029.9	1107.9	1185.9	1263.9	1323.9	1383.9	1443.9	1503.9	1563.9
92.5°	840.2	915.7	991.3	1066.8	1142.4	1217.9	1275.5	1333.0	1390.6	1448.1	1505.7
95°	805.3	878.6	951.9	1025.3	1098.6	1171.9	1227.7	1283.5	1339.2	1395.0	1450.8
97.5°	768.0	839.9	911.9	983.9	1055.9	1127.9	1181.5	1235.0	1288.6	1342.1	1395.7
100°	734.6	805.3	875.9	946.6	1017.2	1087.9	1139.7	1191.5	1243.2	1295.0	1346.8
102.5°	698.4	767.5	836.6	905.7	974.8	1043.9	1094.3	1144.8	1195.2	1245.7	1296.1
105°	661.3	728.6	795.9	863.3	930.6	997.9	1047.5	1097.0	1146.6	1196.1	1245.7
107.5°	624.2	689.7	755.3	820.8	886.4	951.9	1000.1	1048.3	1096.6	1144.8	1193.0
110°	587.1	650.8	714.6	778.4	842.1	905.9	952.8	999.7	1046.6	1093.5	1140.3



TEST NUMBER: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	550.0	611.9	673.9	735.9	797.9	859.9	905.0	950.1	995.2	1040.3	1085.5
115°	511.1	570.8	630.6	690.4	750.1	809.9	853.5	897.0	940.6	984.1	1027.7
117.5°	473.1	530.8	588.6	646.4	704.1	761.9	803.7	845.5	887.2	929.0	970.8
120°	435.3	490.6	545.9	601.3	656.6	711.9	751.9	791.9	831.9	871.9	911.9
122.5°	396.8	449.1	501.3	553.5	605.7	657.9	696.3	734.8	773.2	811.7	850.1
125°	357.6	406.4	455.3	504.2	553.1	602.0	639.3	676.6	714.0	751.3	788.6
127.5°	315.6	360.4	405.3	450.2	495.1	540.0	576.7	613.3	650.0	686.6	723.3
130°	268.4	307.6	346.7	385.8	424.9	464.0	501.1	538.2	575.3	612.4	649.5
132.5°	228.0	262.0	296.0	330.0	364.0	398.0	434.7	471.3	508.0	544.6	581.3
135°	189.3	218.7	248.0	277.3	306.7	336.0	371.3	406.6	442.0	477.3	512.6
137.5°	155.3	180.7	206.0	231.3	256.7	282.0	314.4	346.9	379.3	411.8	444.2
140°	126.2	147.8	169.3	190.9	212.4	234.0	261.1	288.2	315.3	342.4	369.6
142.5°	100.9	119.1	137.3	155.6	173.8	192.0	215.8	239.6	263.3	287.1	310.9
145°	81.6	96.4	111.3	126.2	141.1	156.0	175.6	195.1	214.7	234.2	253.8
147.5°	65.1	76.9	88.7	100.4	112.2	124.0	140.0	156.0	172.0	188.0	204.0
150°	49.6	58.4	67.3	76.2	85.1	94.0	106.7	119.3	132.0	144.7	157.3
152.5°	36.9	43.1	49.3	55.6	61.8	68.0	78.2	88.4	98.7	108.9	119.1
155°	24.9	29.1	33.3	37.6	41.8	46.0	54.0	62.0	70.0	78.0	86.0
157.5°	15.8	18.2	20.7	23.1	25.6	28.0	33.8	39.6	45.3	51.1	56.9
160°	9.3	10.7	12.0	13.3	14.7	16.0	19.6	23.1	26.7	30.2	33.8
162.5°	4.7	5.3	6.0	6.7	7.3	8.0	9.8	11.6	13.3	15.1	16.9
165°	2.9	3.1	3.3	3.6	3.8	4.0	4.7	5.3	6.0	6.7	7.3
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: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1137.2	1137.5	1137.7	1137.9	1136.8	1135.7	1134.6	1133.5	1132.3	1131.2	1130.1
5°	1165.9	1167.2	1168.6	1169.9	1169.7	1169.5	1169.2	1169.0	1168.8	1168.6	1168.3
7.5°	1195.2	1198.1	1201.0	1203.9	1204.8	1205.7	1206.6	1207.5	1208.3	1209.2	1210.1
10°	1227.9	1232.6	1237.2	1241.9	1243.0	1244.1	1245.2	1246.3	1247.5	1248.6	1249.7
12.5°	1264.6	1271.7	1278.8	1285.9	1288.1	1290.3	1292.6	1294.8	1297.0	1299.2	1301.5
15°	1304.6	1314.3	1324.1	1333.9	1337.7	1341.5	1345.2	1349.0	1352.8	1356.6	1360.3
17.5°	1349.9	1362.6	1375.2	1387.9	1392.3	1396.8	1401.2	1405.7	1410.1	1414.6	1419.0
20°	1395.2	1410.1	1425.0	1439.9	1445.0	1450.1	1455.2	1460.3	1465.5	1470.6	1475.7
22.5°	1438.6	1455.7	1472.8	1489.9	1495.9	1501.9	1507.9	1513.9	1519.9	1525.9	1531.9
25°	1482.6	1502.3	1522.1	1541.9	1548.3	1554.8	1561.2	1567.7	1574.1	1580.6	1587.0
27.5°	1521.2	1542.8	1564.3	1585.9	1593.0	1600.1	1607.2	1614.3	1621.5	1628.6	1635.7
30°	1560.6	1584.3	1608.1	1631.9	1640.1	1648.3	1656.6	1664.8	1673.0	1681.2	1689.5
32.5°	1598.6	1625.0	1651.5	1677.9	1687.5	1697.0	1706.6	1716.1	1725.7	1735.2	1744.8
35°	1637.9	1667.2	1696.6	1725.9	1736.6	1747.2	1757.9	1768.6	1779.2	1789.9	1800.6
37.5°	1674.6	1706.3	1738.1	1769.9	1782.3	1794.8	1807.2	1819.6	1832.1	1844.5	1856.9
40°	1713.2	1748.1	1783.0	1817.9	1831.9	1845.9	1859.9	1873.9	1887.8	1901.8	1915.8
42.5°	1749.9	1787.9	1825.9	1863.9	1879.7	1895.4	1911.2	1927.0	1942.7	1958.5	1974.3
45°	1789.2	1830.7	1872.3	1913.8	1931.1	1948.5	1965.8	1983.1	2000.5	2017.8	2035.1
47.5°	1827.8	1873.2	1918.5	1963.8	1983.4	2002.9	2022.5	2042.0	2061.6	2081.1	2100.7
50°	1869.8	1919.8	1969.8	2019.8	2040.9	2062.0	2083.1	2104.2	2125.4	2146.5	2167.6
52.5°	1908.5	1962.9	2017.4	2071.8	2094.9	2118.0	2141.1	2164.2	2187.4	2210.5	2233.6
55°	1949.8	2008.5	2067.1	2125.8	2150.7	2175.6	2200.5	2225.4	2250.2	2275.1	2300.0
57.5°	1990.5	2053.6	2116.7	2179.8	2205.8	2231.8	2257.8	2283.8	2309.8	2335.8	2361.8
60°	2026.5	2092.9	2159.4	2225.8	2252.9	2280.0	2307.1	2334.2	2361.4	2388.5	2415.6
62.5°	2058.5	2128.3	2198.0	2267.8	2295.4	2322.9	2350.5	2378.0	2405.6	2433.1	2460.7
65°	2083.2	2155.4	2227.6	2299.8	2327.6	2355.4	2383.1	2410.9	2438.7	2466.5	2494.2
67.5°	2099.2	2173.4	2247.6	2321.8	2349.6	2377.4	2405.1	2432.9	2460.7	2488.5	2516.2
70°	2100.5	2175.6	2250.7	2325.8	2353.6	2381.4	2409.1	2436.9	2464.7	2492.5	2520.2
72.5°	2083.8	2159.2	2234.5	2309.8	2337.1	2364.5	2391.8	2419.1	2446.5	2473.8	2501.1
75°	2047.8	2122.5	2197.1	2271.8	2298.7	2325.6	2352.5	2379.4	2406.2	2433.1	2460.0
77.5°	1993.8	2066.5	2139.1	2211.8	2237.8	2263.8	2289.8	2315.8	2341.8	2367.8	2393.8
80°	1924.5	1994.9	2065.4	2135.8	2160.9	2186.0	2211.1	2236.2	2261.4	2286.5	2311.6
82.5°	1850.5	1918.3	1986.0	2053.8	2078.0	2102.2	2126.5	2150.7	2174.9	2199.1	2223.4
85°	1771.8	1837.2	1902.5	1967.8	1991.6	2015.4	2039.1	2062.9	2086.7	2110.5	2134.2
87.5°	1695.8	1758.5	1821.1	1883.8	1906.9	1930.0	1953.1	1976.2	1999.4	2022.5	2045.6
90°	1623.9	1683.9	1743.9	1803.9	1826.3	1848.8	1871.2	1893.6	1916.1	1938.5	1960.9
92.5°	1563.2	1620.8	1678.3	1735.9	1757.4	1779.0	1800.5	1822.1	1843.6	1865.2	1886.7
95°	1506.6	1562.3	1618.1	1673.9	1693.9	1713.9	1733.9	1753.9	1773.9	1793.9	1813.9
97.5°	1449.2	1502.8	1556.3	1609.9	1629.2	1648.6	1667.9	1687.2	1706.6	1725.9	1745.2
100°	1398.6	1450.3	1502.1	1553.9	1572.3	1590.8	1609.2	1627.7	1646.1	1664.6	1683.0
102.5°	1346.6	1397.0	1447.5	1497.9	1515.9	1533.9	1551.9	1569.9	1587.9	1605.9	1623.9
105°	1295.2	1344.8	1394.3	1443.9	1461.2	1478.6	1495.9	1513.2	1530.6	1547.9	1565.2
107.5°	1241.2	1289.5	1337.7	1385.9	1403.2	1420.6	1437.9	1455.2	1472.6	1489.9	1507.2
110°	1187.2	1234.1	1281.0	1327.9	1345.0	1362.1	1379.2	1396.3	1413.5	1430.6	1447.7



TEST NUMBER: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1130.6	1175.7	1220.8	1265.9	1282.6	1299.2	1315.9	1332.6	1349.2	1365.9	1382.6
115°	1071.2	1114.8	1158.3	1201.9	1217.9	1233.9	1249.9	1265.9	1281.9	1297.9	1313.9
117.5°	1012.6	1054.3	1096.1	1137.9	1153.2	1168.6	1183.9	1199.2	1214.6	1229.9	1245.2
120°	951.9	991.9	1031.9	1071.9	1086.8	1101.7	1116.6	1131.5	1146.3	1161.2	1176.1
122.5°	888.6	927.0	965.5	1003.9	1017.7	1031.5	1045.2	1059.0	1072.8	1086.6	1100.3
125°	825.9	863.3	900.6	937.9	951.9	965.9	979.9	993.9	1007.9	1021.9	1035.9
127.5°	759.9	796.6	833.2	869.9	883.2	896.6	909.9	923.2	936.6	949.9	963.2
130°	686.6	723.7	760.8	797.9	810.1	822.3	834.6	846.8	859.0	871.2	883.5
132.5°	617.9	654.6	691.2	727.9	739.2	750.6	761.9	773.2	784.6	795.9	807.2
135°	547.9	583.3	618.6	653.9	665.5	677.0	688.6	700.1	711.7	723.2	734.8
137.5°	476.7	509.1	541.6	574.0	585.5	597.1	608.6	620.2	631.7	643.3	654.8
140°	396.7	423.8	450.9	478.0	491.1	504.2	517.3	530.4	543.6	556.7	569.8
142.5°	334.7	358.4	382.2	406.0	419.6	433.1	446.7	460.2	473.8	487.3	500.9
145°	273.3	292.9	312.4	332.0	345.1	358.2	371.3	384.4	397.6	410.7	423.8
147.5°	220.0	236.0	252.0	268.0	280.9	293.8	306.7	319.6	332.4	345.3	358.2
150°	170.0	182.7	195.3	208.0	220.4	232.9	245.3	257.8	270.2	282.7	295.1
152.5°	129.3	139.6	149.8	160.0	171.3	182.7	194.0	205.3	216.7	228.0	239.3
155°	94.0	102.0	110.0	118.0	128.0	138.0	148.0	158.0	168.0	178.0	188.0
157.5°	62.7	68.4	74.2	80.0	88.7	97.3	106.0	114.7	123.3	132.0	140.7
160°	37.3	40.9	44.4	48.0	54.4	60.9	67.3	73.8	80.2	86.7	93.1
162.5°	18.7	20.4	22.2	24.0	28.0	32.0	36.0	40.0	44.0	48.0	52.0
165°	8.0	8.7	9.3	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0
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: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1107.9	1107.9
2.5°	1129.0	1127.9
5°	1168.1	1167.9
7.5°	1211.0	1211.9
10°	1250.8	1251.9
12.5°	1303.7	1305.9
15°	1364.1	1367.9
17.5°	1423.5	1427.9
20°	1480.8	1485.9
22.5°	1537.9	1543.9
25°	1593.5	1599.9
27.5°	1642.8	1649.9
30°	1697.7	1705.9
32.5°	1754.3	1763.9
35°	1811.2	1821.9
37.5°	1869.4	1881.8
40°	1929.8	1943.8
42.5°	1990.0	2005.8
45°	2052.5	2069.8
47.5°	2120.2	2139.8
50°	2188.7	2209.8
52.5°	2256.7	2279.8
55°	2324.9	2349.8
57.5°	2387.8	2413.8
60°	2442.7	2469.8
62.5°	2488.2	2515.8
65°	2522.0	2549.8
67.5°	2544.0	2571.8
70°	2548.0	2575.8
72.5°	2528.5	2555.8
75°	2486.9	2513.8
77.5°	2419.8	2445.8
80°	2336.7	2361.8
82.5°	2247.6	2271.8
85°	2158.0	2181.8
87.5°	2068.7	2091.8
90°	1983.4	2005.8
92.5°	1908.3	1929.8
95°	1833.9	1853.9
97.5°	1764.6	1783.9
100°	1701.5	1719.9
102.5°	1641.9	1659.9
105°	1582.6	1599.9
107.5°	1524.6	1541.9
110°	1464.8	1481.9



TEST NUMBER: P201406

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1399.2	1415.9
115°	1329.9	1345.9
117.5°	1260.6	1275.9
120°	1191.0	1205.9
122.5°	1114.1	1127.9
125°	1049.9	1063.9
127.5°	976.6	989.9
130°	895.7	907.9
132.5°	818.6	829.9
135°	746.3	757.9
137.5°	666.4	677.9
140°	582.9	596.0
142.5°	514.4	528.0
145°	436.9	450.0
147.5°	371.1	384.0
150°	307.6	320.0
152.5°	250.7	262.0
155°	198.0	208.0
157.5°	149.3	158.0
160°	99.6	106.0
162.5°	56.0	60.0
165°	26.0	28.0
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)