

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: P201407

Luminaire Tested: **8LBLED-LD4-10-ASYMW-UNV-L850-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201407
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-L850-CD2-U
Description: 8 ft. Low Bay Linear, 7000 lm, Wht Asym lens, 5K
Light Source: (616) 5000K CCT, 80 CRI LEDS
2UT217098A8504C, 2UT217056A8504B
Ballast/Driver: OSRAM
(OT50W01080CC), (OT30W0600CC)

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10697.8 lumens
Efficiency: N/A
Efficacy: 142.1 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

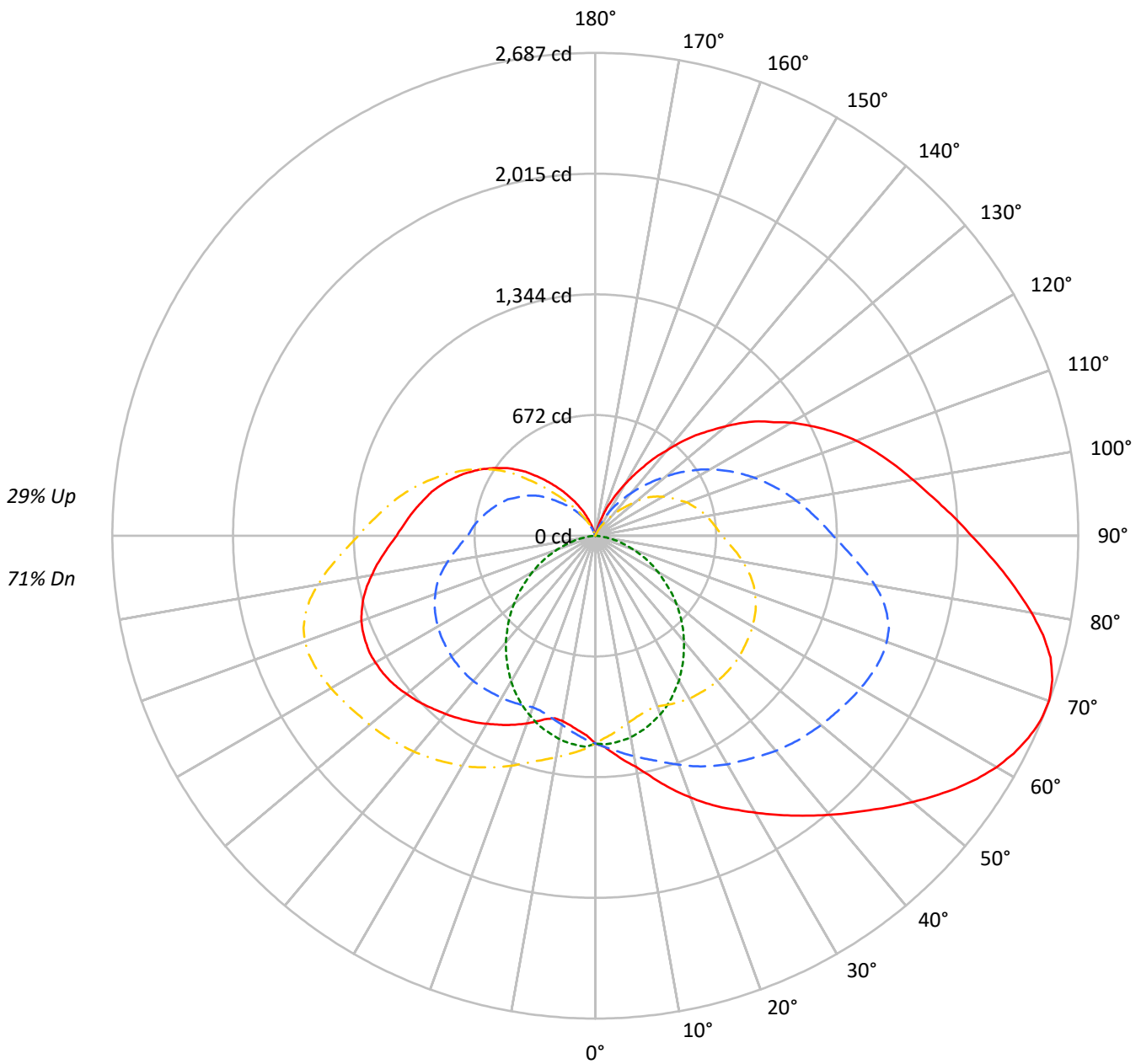
Input Watts (W): 75.28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9310	9310	9310	9310
5°	8884	9342	7926	9443
10°	8759	9275	7025	9360
15°	8923	9141	6601	9227
20°	9144	8983	6559	9036
25°	9385	8776	6534	8831
30°	9629	8528	6536	8585
35°	9984	8221	6587	8281
40°	10427	7901	6662	7966
45°	10955	7552	6774	7598
50°	11629	7151	6915	7177
55°	12390	6639	7075	6696
60°	13148	6175	7207	6208
65°	13812	5688	7312	5650
70°	14313	5000	7379	4953
75°	14451	4143	7358	4083
80°	14175	3037	7261	3037
85°	13808	1489	7176	1632



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	1.0
10°-20°	331.4	3.1
20°-30°	560.1	5.2
30°-40°	781.8	7.3
40°-50°	985.9	9.2
50°-60°	1157.6	10.8
60°-70°	1270.5	11.9
70°-80°	1259.5	11.8
80°-90°	1107.1	10.3
90°-100°	942.5	8.8
100°-110°	784.9	7.3
110°-120°	605.6	5.7
120°-130°	418.4	3.9
130°-140°	240.8	2.3
140°-150°	107.0	1.0
150°-160°	31.7	0.3
160°-170°	2.7	0.0
170°-180°	0.0	0.0
0°-30°	1001.8	9.4
0°-40°	1783.6	16.7
0°-60°	3927.1	36.7
0°-90°	7564.2	70.7
90°-120°	2333.0	21.8
90°-150°	3099.2	29.0
90°-180°	3134.0	29.3
0°-180°	10697.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1156	1156	1156	1156	1156	
5°	1218	1158	1087	1170	1218	119
15°	1427	1104	1056	1114	1427	408
25°	1669	999	1162	1005	1669	774
35°	1900	851	1254	857	1900	1198
45°	2159	680	1335	684	2159	1678
55°	2451	490	1400	494	2451	2198
65°	2660	315	1408	313	2660	2631
75°	2622	146	1335	144	2622	2754
85°	2276	21	1183	23	2276	1897
90°	2092	0	1106	0	2092	1148
95°	1934	0	1049	2	1934	1552
105°	1669	0	943	2	1669	1767
115°	1404	0	811	2	1404	1395
125°	1110	0	657	2	1110	994
135°	791	0	474	2	791	613
145°	469	0	286	2	469	302
155°	217	0	129	2	217	104
165°	29	0	8	2	29	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°	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6
2.5°	1176.5	1176.3	1176.0	1175.8	1175.6	1175.3	1175.1	1174.9	1174.6	1174.4	1174.6
5°	1218.2	1216.8	1215.4	1214.0	1212.6	1211.3	1209.9	1208.5	1207.1	1205.7	1204.8
7.5°	1264.1	1261.8	1259.5	1257.1	1254.8	1252.5	1250.2	1247.8	1245.5	1243.2	1240.9
10°	1305.8	1302.8	1299.8	1296.8	1293.8	1290.7	1287.7	1284.7	1281.7	1278.7	1275.0
12.5°	1362.1	1357.7	1353.3	1348.9	1344.5	1340.1	1335.7	1331.3	1326.9	1322.5	1316.7
15°	1426.8	1421.7	1416.6	1411.5	1406.4	1401.3	1396.2	1391.1	1386.0	1380.9	1371.4
17.5°	1489.4	1483.6	1477.8	1472.0	1466.2	1460.4	1454.6	1448.8	1443.0	1437.2	1424.7
20°	1549.9	1542.7	1535.5	1528.3	1521.1	1514.0	1506.8	1499.6	1492.4	1485.2	1470.8
22.5°	1610.4	1602.1	1593.7	1585.4	1577.0	1568.7	1560.3	1552.0	1543.6	1535.3	1518.8
25°	1668.8	1659.8	1650.7	1641.7	1632.6	1623.6	1614.5	1605.5	1596.4	1587.4	1568.4
27.5°	1720.9	1711.6	1702.4	1693.1	1683.8	1674.6	1665.3	1656.0	1646.8	1637.5	1615.9
30°	1779.3	1768.9	1758.5	1748.0	1737.6	1727.2	1716.8	1706.3	1695.9	1685.5	1661.4
32.5°	1839.8	1828.0	1816.2	1804.4	1792.6	1780.7	1768.9	1757.1	1745.3	1733.5	1706.4
35°	1900.3	1887.3	1874.3	1861.4	1848.4	1835.4	1822.4	1809.5	1796.5	1783.5	1753.4
37.5°	1962.9	1948.5	1934.2	1919.8	1905.4	1891.1	1876.7	1862.3	1848.0	1833.6	1800.7
40°	2027.6	2011.8	1996.1	1980.3	1964.5	1948.8	1933.0	1917.2	1901.5	1885.7	1849.8
42.5°	2092.2	2075.1	2057.9	2040.8	2023.6	2006.5	1989.3	1972.2	1955.0	1937.9	1898.5
45°	2159.0	2140.5	2121.9	2103.4	2084.8	2066.3	2047.7	2029.2	2010.6	1992.1	1949.0
47.5°	2232.0	2211.4	2190.8	2170.1	2149.5	2128.9	2108.3	2087.6	2067.0	2046.4	1999.1
50°	2305.0	2282.5	2260.0	2237.6	2215.1	2192.6	2170.1	2147.7	2125.2	2102.7	2051.2
52.5°	2378.0	2353.9	2329.8	2305.7	2281.6	2257.5	2233.4	2209.3	2185.2	2161.1	2104.8
55°	2451.0	2425.3	2399.6	2373.8	2348.1	2322.4	2296.7	2270.9	2245.2	2219.5	2158.5
57.5°	2517.8	2491.1	2464.5	2437.8	2411.2	2384.5	2357.9	2331.2	2304.6	2277.9	2212.3
60°	2576.2	2548.8	2521.5	2494.1	2466.8	2439.4	2412.1	2384.7	2357.4	2330.0	2260.2
62.5°	2624.2	2596.4	2568.6	2540.8	2513.0	2485.1	2457.3	2429.5	2401.7	2373.9	2300.7
65°	2659.6	2631.8	2604.0	2576.2	2548.4	2520.5	2492.7	2464.9	2437.1	2409.3	2333.3
67.5°	2682.6	2654.6	2626.5	2598.5	2570.4	2542.4	2514.3	2486.3	2458.2	2430.2	2352.3
70°	2686.8	2659.0	2631.2	2603.3	2575.5	2547.7	2519.9	2492.0	2464.2	2436.4	2357.4
72.5°	2665.9	2638.5	2611.2	2583.8	2556.5	2529.1	2501.8	2474.4	2447.1	2419.7	2341.1
75°	2622.1	2595.4	2568.8	2542.1	2515.5	2488.8	2462.2	2435.5	2408.9	2382.2	2304.1
77.5°	2551.2	2525.5	2499.7	2474.0	2448.3	2422.5	2396.8	2371.1	2345.3	2319.6	2243.8
80°	2463.6	2438.8	2414.0	2389.2	2364.4	2339.6	2314.8	2290.0	2265.2	2240.4	2166.9
82.5°	2369.7	2345.6	2321.5	2297.4	2273.3	2249.1	2225.0	2200.9	2176.8	2152.7	2081.5
85°	2275.8	2252.2	2228.5	2204.9	2181.2	2157.6	2133.9	2110.3	2086.6	2063.0	1994.4
87.5°	2181.9	2158.3	2134.6	2111.0	2087.4	2063.7	2040.1	2016.5	1992.8	1969.2	1903.8
90°	2092.2	2069.5	2046.8	2024.1	2001.4	1978.6	1955.9	1933.2	1910.5	1887.8	1825.0
92.5°	2013.0	1991.4	1969.9	1948.3	1926.8	1905.2	1883.7	1862.1	1840.6	1819.0	1758.5
95°	1933.7	1913.1	1892.5	1871.8	1851.2	1830.6	1810.0	1789.3	1768.7	1748.1	1690.2
97.5°	1860.7	1841.0	1821.3	1801.6	1781.9	1762.2	1742.5	1722.8	1703.1	1683.4	1627.5
100°	1793.9	1774.4	1755.0	1735.5	1716.0	1696.6	1677.1	1657.6	1638.2	1618.7	1564.7
102.5°	1731.4	1712.9	1694.3	1675.8	1657.2	1638.7	1620.1	1601.6	1583.0	1564.5	1511.4
105°	1668.8	1650.7	1632.6	1614.6	1596.5	1578.4	1560.3	1542.3	1524.2	1506.1	1454.2
107.5°	1608.3	1589.5	1570.7	1552.0	1533.2	1514.4	1495.6	1476.9	1458.1	1439.3	1389.5
110°	1545.7	1526.9	1508.2	1489.4	1470.6	1451.9	1433.1	1414.3	1395.6	1376.8	1328.6



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	1476.9	1459.1	1441.2	1423.4	1405.5	1387.7	1369.8	1352.0	1334.1	1316.3	1269.2
115°	1403.9	1386.0	1368.2	1350.3	1332.5	1314.6	1296.8	1278.9	1261.1	1243.2	1198.7
117.5°	1330.9	1314.2	1297.5	1280.8	1264.1	1247.5	1230.8	1214.1	1197.4	1180.7	1137.4
120°	1257.9	1241.9	1225.9	1209.9	1193.9	1177.9	1161.9	1145.9	1129.9	1113.9	1072.2
122.5°	1176.5	1161.9	1147.3	1132.7	1118.1	1103.5	1088.9	1074.3	1059.7	1045.1	1005.0
125°	1109.7	1094.9	1080.0	1065.2	1050.4	1035.5	1020.7	1005.9	991.0	976.2	937.5
127.5°	1032.6	1018.5	1004.3	990.2	976.0	961.9	947.7	933.6	919.4	905.3	868.2
130°	947.0	934.3	921.5	908.8	896.0	883.3	870.5	857.8	845.0	832.3	796.6
132.5°	865.7	853.9	842.1	830.2	818.4	806.6	794.8	782.9	771.1	759.3	725.9
135°	790.6	779.0	767.4	755.8	744.2	732.7	721.1	709.5	697.9	686.3	655.0
137.5°	707.1	696.4	685.8	675.1	664.5	653.8	643.2	632.5	621.9	611.2	583.4
140°	621.6	612.6	603.5	594.5	585.5	576.4	567.4	558.4	549.3	540.3	514.3
142.5°	550.7	541.2	531.7	522.2	512.7	503.2	493.7	484.2	474.7	465.2	443.2
145°	469.3	461.7	454.0	446.4	438.7	431.1	423.4	415.8	408.1	400.5	381.0
147.5°	400.5	393.8	387.1	380.3	373.6	366.9	360.2	353.4	346.7	340.0	323.1
150°	333.8	328.2	322.7	317.1	311.5	306.0	300.4	294.8	289.3	283.7	268.6
152.5°	273.3	268.4	263.6	258.7	253.8	249.0	244.1	239.2	234.4	229.5	216.3
155°	216.9	212.7	208.6	204.4	200.2	196.1	191.9	187.7	183.6	179.4	167.8
157.5°	164.8	160.9	156.9	153.0	149.0	145.1	141.1	137.2	133.2	129.3	119.8
160°	110.6	107.6	104.6	101.5	98.5	95.5	92.5	89.4	86.4	83.4	76.9
162.5°	62.6	60.5	58.4	56.3	54.2	52.2	50.1	48.0	45.9	43.8	40.3
165°	29.2	28.3	27.4	26.4	25.5	24.6	23.7	22.7	21.8	20.9	19.0
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



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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°	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6
2.5°	1174.9	1175.1	1175.3	1175.6	1175.8	1176.0	1176.3	1176.5	1174.4	1172.3	1170.2
5°	1203.9	1202.9	1202.0	1201.1	1200.2	1199.2	1198.3	1197.4	1193.9	1190.4	1187.0
7.5°	1238.6	1236.3	1234.0	1231.6	1229.3	1227.0	1224.7	1222.4	1216.8	1211.3	1205.7
10°	1271.3	1267.6	1263.9	1260.1	1256.4	1252.7	1249.0	1245.3	1237.7	1230.0	1222.4
12.5°	1310.9	1305.1	1299.3	1293.6	1287.8	1282.0	1276.2	1270.4	1260.0	1249.5	1239.1
15°	1361.9	1352.4	1342.9	1333.4	1323.9	1314.4	1304.9	1295.4	1282.2	1269.0	1255.8
17.5°	1412.2	1399.7	1387.2	1374.6	1362.1	1349.6	1337.1	1324.6	1307.7	1290.8	1273.8
20°	1456.5	1442.1	1427.7	1413.4	1399.0	1384.6	1370.3	1355.9	1335.0	1314.2	1293.3
22.5°	1502.4	1485.9	1469.5	1453.0	1436.6	1420.1	1403.7	1387.2	1362.2	1337.1	1312.1
25°	1549.4	1530.4	1511.4	1492.4	1473.4	1454.4	1435.4	1416.4	1387.4	1358.4	1329.5
27.5°	1594.4	1572.8	1551.3	1529.7	1508.2	1486.6	1465.1	1443.5	1410.6	1377.7	1344.8
30°	1637.3	1613.2	1589.1	1564.9	1540.8	1516.7	1492.6	1468.5	1431.9	1395.3	1358.6
32.5°	1679.3	1652.1	1625.0	1597.9	1570.8	1543.6	1516.5	1489.4	1449.8	1410.1	1370.5
35°	1723.2	1693.1	1663.0	1632.8	1602.7	1572.6	1542.4	1512.3	1469.2	1426.1	1383.0
37.5°	1767.8	1734.9	1702.0	1669.0	1636.1	1603.2	1570.3	1537.4	1490.6	1443.8	1396.9
40°	1813.9	1777.9	1742.0	1706.1	1670.2	1634.2	1598.3	1562.4	1511.9	1461.4	1410.8
42.5°	1859.1	1819.7	1780.3	1740.9	1701.5	1662.1	1622.7	1583.3	1529.1	1474.8	1420.6
45°	1905.9	1862.8	1819.7	1776.5	1733.4	1690.3	1647.2	1604.1	1546.2	1488.2	1430.3
47.5°	1951.8	1904.5	1857.2	1810.0	1762.7	1715.4	1668.1	1620.8	1559.4	1498.0	1436.5
50°	1999.8	1948.3	1896.9	1845.4	1794.0	1742.5	1691.1	1639.6	1574.2	1508.9	1443.5
52.5°	2048.5	1992.1	1935.8	1879.5	1823.2	1766.8	1710.5	1654.2	1585.1	1516.1	1447.0
55°	2097.6	2036.6	1975.7	1914.7	1853.8	1792.8	1731.9	1670.9	1598.1	1525.3	1452.6
57.5°	2146.7	2081.1	2015.5	1950.0	1884.4	1818.8	1753.2	1687.6	1610.9	1534.2	1457.4
60°	2190.5	2120.7	2051.0	1981.2	1911.5	1841.7	1772.0	1702.2	1621.5	1540.9	1460.2
62.5°	2227.4	2154.2	2080.9	2007.7	1934.4	1861.2	1787.9	1714.7	1630.3	1546.0	1461.6
65°	2257.3	2181.2	2105.2	2029.2	1953.2	1877.1	1801.1	1725.1	1636.8	1548.5	1460.2
67.5°	2274.4	2196.6	2118.7	2040.8	1962.9	1885.1	1807.2	1729.3	1637.7	1546.2	1454.6
70°	2278.3	2199.3	2120.3	2041.2	1962.2	1883.2	1804.1	1725.1	1630.5	1536.0	1441.4
72.5°	2262.6	2184.0	2105.4	2026.9	1948.3	1869.7	1791.2	1712.6	1615.9	1519.3	1422.6
75°	2226.0	2147.9	2069.8	1991.6	1913.5	1835.4	1757.3	1679.2	1582.6	1485.9	1389.3
77.5°	2168.0	2092.2	2016.4	1940.7	1864.9	1789.1	1713.3	1637.5	1541.3	1445.1	1348.9
80°	2093.4	2020.0	1946.5	1873.0	1799.5	1726.1	1652.6	1579.1	1484.8	1390.4	1296.1
82.5°	2010.4	1939.2	1868.1	1796.9	1725.8	1654.6	1583.5	1512.3	1421.2	1330.1	1239.0
85°	1925.8	1857.2	1788.6	1720.0	1651.4	1582.8	1514.2	1445.6	1357.5	1269.4	1181.4
87.5°	1838.5	1773.1	1707.7	1642.4	1577.0	1511.6	1446.3	1380.9	1296.1	1211.3	1126.4
90°	1762.2	1699.4	1636.6	1573.7	1510.9	1448.1	1385.3	1322.5	1240.7	1158.9	1077.1
92.5°	1698.0	1637.5	1577.0	1516.5	1456.0	1395.5	1335.0	1274.5	1195.2	1116.0	1036.7
95°	1632.2	1574.3	1516.3	1458.4	1400.4	1342.5	1284.5	1226.6	1149.6	1072.7	995.7
97.5°	1571.7	1515.8	1460.0	1404.1	1348.3	1292.4	1236.6	1180.7	1105.1	1029.6	954.0
100°	1510.7	1456.7	1402.7	1348.7	1294.7	1240.7	1186.7	1132.7	1059.2	985.7	912.3
102.5°	1458.3	1405.3	1352.2	1299.1	1246.0	1193.0	1139.9	1086.8	1015.2	943.6	871.9
105°	1402.3	1350.3	1298.4	1246.5	1194.6	1142.6	1090.7	1038.8	969.3	899.7	830.2
107.5°	1339.6	1289.8	1240.0	1190.1	1140.3	1090.5	1040.6	990.8	923.1	855.4	787.8
110°	1280.4	1232.2	1184.0	1135.7	1087.5	1039.3	991.1	942.9	877.3	811.7	746.1



TEST NUMBER: P201407

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	1222.2	1175.1	1128.1	1081.0	1034.0	986.9	939.9	892.8	829.1	765.3	701.6
115°	1154.2	1109.7	1065.2	1020.7	976.2	931.7	887.2	842.7	781.1	719.4	657.8
117.5°	1094.0	1050.7	1007.3	964.0	920.6	877.3	833.9	790.6	731.3	671.9	612.6
120°	1030.5	988.7	947.0	905.3	863.6	821.8	780.1	738.4	681.9	625.3	568.8
122.5°	964.9	924.8	884.7	844.6	804.5	764.4	724.3	684.2	630.7	577.1	523.6
125°	898.8	860.1	821.4	782.7	744.0	705.3	666.6	627.9	577.8	527.8	477.7
127.5°	831.1	794.1	757.0	719.9	682.8	645.8	608.7	571.6	525.2	478.9	432.5
130°	760.9	725.2	689.5	653.9	618.2	582.5	546.8	511.1	468.9	426.7	384.5
132.5°	692.5	659.2	625.8	592.4	559.0	525.7	492.3	458.9	420.2	381.5	342.8
135°	623.7	592.4	561.1	529.9	498.6	467.3	436.0	404.7	369.7	334.7	299.7
137.5°	555.6	527.8	500.0	472.1	444.3	416.5	388.7	360.9	328.4	296.0	263.5
140°	488.4	462.4	436.4	410.5	384.5	358.5	332.6	306.6	278.1	249.6	221.1
142.5°	421.2	399.1	377.1	355.1	333.1	311.0	289.0	267.0	241.3	215.6	189.8
145°	361.6	342.1	322.6	303.2	283.7	264.2	244.8	225.3	202.8	180.3	157.8
147.5°	306.2	289.2	272.3	255.4	238.5	221.5	204.6	187.7	168.7	149.7	130.7
150°	253.6	238.5	223.4	208.4	193.3	178.2	163.2	148.1	132.8	117.5	102.2
152.5°	203.1	189.9	176.7	163.4	150.2	137.0	123.8	110.6	99.0	87.4	75.8
155°	156.2	144.6	133.0	121.5	109.9	98.3	86.7	75.1	67.0	58.9	50.8
157.5°	110.3	100.8	91.3	81.8	72.3	62.8	53.3	43.8	38.9	34.1	29.2
160°	70.4	63.9	57.4	51.0	44.5	38.0	31.5	25.0	22.2	19.4	16.7
162.5°	36.8	33.4	29.9	26.4	22.9	19.5	16.0	12.5	11.1	9.7	8.3
165°	17.2	15.3	13.5	11.6	9.8	7.9	6.1	4.2	3.7	3.3	2.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201407

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6
2.5°	1168.1	1166.1	1164.0	1161.9	1159.8	1157.7	1158.2	1158.6	1159.1	1159.6	1160.0
5°	1183.5	1180.0	1176.5	1173.1	1169.6	1166.1	1165.2	1164.2	1163.3	1162.4	1161.4
7.5°	1200.1	1194.6	1189.0	1183.4	1177.9	1172.3	1169.8	1167.2	1164.7	1162.1	1159.6
10°	1214.7	1207.1	1199.4	1191.8	1184.1	1176.5	1172.3	1168.1	1164.0	1159.8	1155.6
12.5°	1228.7	1218.2	1207.8	1197.4	1186.9	1176.5	1170.5	1164.5	1158.4	1152.4	1146.4
15°	1242.6	1229.3	1216.1	1202.9	1189.7	1176.5	1168.4	1160.3	1152.2	1144.1	1135.9
17.5°	1256.9	1240.0	1223.1	1206.1	1189.2	1172.3	1162.1	1151.9	1141.7	1131.5	1121.3
20°	1272.5	1251.6	1230.8	1209.9	1189.1	1168.2	1155.9	1143.6	1131.3	1119.0	1106.8
22.5°	1287.1	1262.0	1237.0	1212.0	1186.9	1161.9	1147.3	1132.7	1118.1	1103.5	1088.9
25°	1300.5	1271.5	1242.5	1213.6	1184.6	1155.6	1138.2	1120.8	1103.5	1086.1	1068.7
27.5°	1311.9	1278.9	1246.0	1213.1	1180.2	1147.3	1126.9	1106.5	1086.1	1065.7	1045.3
30°	1322.0	1285.4	1248.8	1212.1	1175.5	1138.9	1115.7	1092.6	1069.4	1046.2	1023.1
32.5°	1330.9	1291.2	1251.6	1212.0	1172.3	1132.7	1105.8	1078.9	1052.0	1025.1	998.3
35°	1339.9	1296.7	1253.6	1210.5	1167.4	1124.3	1093.9	1063.6	1033.2	1002.9	972.5
37.5°	1350.1	1303.3	1256.5	1209.6	1162.8	1116.0	1081.9	1047.9	1013.8	979.7	945.7
40°	1360.3	1309.8	1259.3	1208.7	1158.2	1107.7	1069.9	1032.1	994.3	956.5	918.8
42.5°	1366.3	1312.1	1257.8	1203.6	1149.3	1095.1	1053.8	1012.6	971.3	930.1	888.8
45°	1372.3	1314.4	1256.4	1198.5	1140.5	1082.6	1037.9	993.1	948.4	903.7	858.9
47.5°	1375.1	1313.7	1252.3	1190.8	1129.4	1068.0	1019.8	971.6	923.4	875.2	826.9
50°	1378.1	1312.8	1247.4	1182.0	1116.7	1051.3	999.8	948.4	896.9	845.5	794.0
52.5°	1377.9	1308.9	1239.8	1170.7	1101.7	1032.6	978.1	923.7	869.2	814.7	760.3
55°	1379.8	1307.0	1234.2	1161.5	1088.7	1015.9	957.5	899.1	840.7	782.3	723.8
57.5°	1380.7	1304.0	1227.3	1150.5	1073.8	997.1	935.7	874.3	812.8	751.4	690.0
60°	1379.5	1298.9	1218.2	1137.5	1056.9	976.2	912.2	848.3	784.3	720.3	656.4
62.5°	1377.2	1292.9	1208.5	1124.1	1039.8	955.4	889.1	822.8	756.5	690.2	624.0
65°	1371.9	1283.6	1195.3	1107.0	1018.7	930.4	862.0	793.6	725.3	656.9	588.5
67.5°	1363.1	1271.5	1180.0	1088.4	996.9	905.3	834.4	763.5	692.5	621.6	550.7
70°	1346.8	1252.3	1157.7	1063.1	968.6	874.0	802.2	730.3	658.5	586.6	514.8
72.5°	1326.0	1229.3	1132.7	1036.0	939.4	842.7	769.7	696.7	623.7	550.7	477.7
75°	1292.6	1196.0	1099.3	1002.7	906.0	809.4	735.7	662.0	588.3	514.6	440.8
77.5°	1252.7	1156.6	1060.4	964.2	868.0	771.8	698.1	624.4	550.7	477.0	403.3
80°	1201.8	1107.4	1013.1	918.8	824.4	730.1	657.3	584.5	511.8	439.0	366.2
82.5°	1147.9	1056.9	965.8	874.7	783.6	692.5	620.4	548.3	476.3	404.2	332.1
85°	1093.3	1005.2	917.1	829.1	741.0	652.9	582.7	512.5	442.2	372.0	301.8
87.5°	1041.6	956.8	872.0	787.1	702.3	617.5	549.4	481.2	413.1	344.9	276.8
90°	995.3	913.4	831.6	749.8	668.0	586.2	521.1	455.9	390.8	325.7	260.5
92.5°	957.4	878.2	798.9	719.6	640.4	561.1	498.8	436.4	374.1	311.7	249.4
95°	918.8	841.8	764.9	687.9	611.0	534.0	474.7	415.3	356.0	296.7	237.3
97.5°	878.4	802.9	727.3	651.7	576.2	500.6	445.0	389.4	333.7	278.1	222.5
100°	838.8	765.3	691.8	618.4	544.9	471.4	419.0	366.6	314.3	261.9	209.5
102.5°	800.3	728.7	657.1	585.4	513.8	442.2	393.1	343.9	294.8	245.7	196.5
105°	760.7	691.1	621.6	552.1	482.5	413.0	367.1	321.2	275.3	229.4	183.6
107.5°	720.1	652.4	584.7	517.1	449.4	381.7	339.3	296.9	254.5	212.1	169.6
110°	680.5	614.9	549.3	483.7	418.1	352.5	313.3	274.2	235.0	195.8	156.7



TEST NUMBER: P201407

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	637.9	574.1	510.4	446.7	382.9	319.2	283.7	248.3	212.8	177.3	141.9
115°	596.1	534.5	472.8	411.2	349.5	287.9	255.9	223.9	191.9	159.9	128.0
117.5°	553.3	493.9	434.6	375.3	315.9	256.6	228.1	199.6	171.1	142.6	114.0
120°	512.2	455.7	399.1	342.6	286.0	229.5	204.0	178.5	153.0	127.5	102.0
122.5°	470.0	416.5	362.9	309.4	255.8	202.3	179.8	157.3	134.9	112.4	89.9
125°	427.6	377.6	327.5	277.4	227.4	177.3	157.6	137.9	118.2	98.5	78.8
127.5°	386.2	339.8	293.5	247.1	200.8	154.4	137.2	120.1	102.9	85.8	68.6
130°	342.3	300.2	258.0	215.8	173.6	131.4	116.8	102.2	87.6	73.0	58.4
132.5°	304.1	265.4	226.7	188.0	149.3	110.6	98.3	86.0	73.7	61.4	49.2
135°	264.7	229.7	194.7	159.7	124.7	89.7	79.7	69.8	59.8	49.8	39.9
137.5°	231.1	198.6	166.2	133.7	101.3	68.8	61.2	53.5	45.9	38.2	30.6
140°	192.6	164.1	135.6	107.1	78.6	50.1	44.5	39.0	33.4	27.8	22.3
142.5°	164.1	138.4	112.7	86.9	61.2	35.5	31.6	27.6	23.7	19.7	15.8
145°	135.3	112.9	90.4	67.9	45.4	22.9	20.4	17.8	15.3	12.7	10.2
147.5°	111.7	92.7	73.7	54.7	35.7	16.7	14.8	13.0	11.1	9.3	7.4
150°	86.9	71.6	56.3	41.0	25.7	10.4	9.2	8.1	6.9	5.8	4.6
152.5°	64.2	52.7	41.1	29.5	17.9	6.3	5.6	4.9	4.2	3.5	2.8
155°	42.7	34.5	26.4	18.3	10.2	2.1	1.9	1.6	1.4	1.2	0.9
157.5°	24.3	19.5	14.6	9.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	13.9	11.1	8.3	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	6.9	5.6	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.3	1.9	1.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201407

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6
2.5°	1160.5	1161.0	1161.4	1161.9	1159.3	1156.8	1154.2	1151.7	1149.1	1146.6	1144.0
5°	1160.5	1159.6	1158.6	1157.7	1153.8	1149.8	1145.9	1142.0	1138.0	1134.1	1130.2
7.5°	1157.0	1154.5	1151.9	1149.4	1144.3	1139.2	1134.1	1129.0	1123.9	1118.8	1113.7
10°	1151.4	1147.3	1143.1	1138.9	1132.6	1126.4	1120.1	1113.9	1107.6	1101.4	1095.1
12.5°	1140.4	1134.3	1128.3	1122.3	1115.3	1108.4	1101.4	1094.5	1087.5	1080.6	1073.6
15°	1127.8	1119.7	1111.6	1103.5	1095.8	1088.2	1080.5	1072.9	1065.2	1057.6	1049.9
17.5°	1111.1	1100.9	1090.7	1080.5	1072.6	1064.7	1056.9	1049.0	1041.1	1033.2	1025.4
20°	1094.5	1082.2	1069.9	1057.6	1049.3	1040.9	1032.6	1024.2	1015.9	1007.5	999.2
22.5°	1074.3	1059.7	1045.1	1030.5	1022.4	1014.3	1006.2	998.1	989.9	981.8	973.7
25°	1051.3	1034.0	1016.6	999.2	991.3	983.4	975.6	967.7	959.8	951.9	944.1
27.5°	1024.9	1004.5	984.1	963.7	956.7	949.8	942.8	935.9	928.9	922.0	915.0
30°	999.9	976.7	953.6	930.4	924.6	918.8	913.0	907.2	901.4	895.6	889.8
32.5°	971.4	944.5	917.6	890.7	886.5	882.4	878.2	874.0	869.9	865.7	861.5
35°	942.2	911.8	881.5	851.1	849.5	847.9	846.2	844.6	843.0	841.4	839.7
37.5°	911.6	877.5	843.5	809.4	810.8	812.2	813.6	815.0	816.3	817.7	819.1
40°	881.0	843.2	805.4	767.6	771.8	776.0	780.1	784.3	788.5	792.7	796.8
42.5°	847.6	806.3	765.1	723.8	731.0	738.2	745.4	752.6	759.7	766.9	774.1
45°	814.2	769.5	724.7	680.0	690.0	699.9	709.9	719.9	729.8	739.8	749.8
47.5°	778.7	730.5	682.3	634.1	647.1	660.1	673.1	686.1	699.0	712.0	725.0
50°	742.6	691.1	639.7	588.2	604.0	619.7	635.5	651.3	667.0	682.8	698.6
52.5°	705.8	651.3	596.9	542.4	560.9	579.5	598.0	616.5	635.1	653.6	672.1
55°	665.4	607.0	548.6	490.2	512.2	534.2	556.3	578.3	600.3	622.3	644.4
57.5°	628.6	567.1	505.7	444.3	468.9	493.4	518.0	542.6	567.1	591.7	616.3
60°	592.4	528.4	464.5	400.5	427.4	454.3	481.2	508.1	534.9	561.8	588.7
62.5°	557.7	491.4	425.1	358.8	387.5	416.3	445.0	473.8	502.5	531.3	560.0
65°	520.1	451.8	383.4	315.0	345.6	376.2	406.8	437.4	467.9	498.5	529.1
67.5°	479.8	408.8	337.9	267.0	299.9	332.8	365.7	398.6	431.6	464.5	497.4
70°	442.9	371.1	299.2	227.4	261.7	296.0	330.3	364.6	398.9	433.2	467.5
72.5°	404.7	331.7	258.7	185.7	220.9	256.1	291.4	326.6	361.8	397.0	432.3
75°	367.1	293.4	219.7	146.0	182.4	218.8	255.2	291.6	327.9	364.3	400.7
77.5°	329.6	255.9	182.2	108.5	145.8	183.1	220.4	257.7	295.1	332.4	369.7
80°	293.4	220.7	147.9	75.1	113.1	151.1	189.1	227.1	265.2	303.2	341.2
82.5°	260.0	188.0	115.9	43.8	82.0	120.3	158.5	196.8	235.0	273.3	311.5
85°	231.6	161.3	91.1	20.9	58.7	96.5	134.2	172.0	209.8	247.6	285.3
87.5°	208.6	140.5	72.3	4.2	41.0	77.9	114.7	151.6	188.4	225.3	262.1
90°	195.4	130.3	65.1	0.0	35.0	70.0	105.0	140.0	175.0	210.0	245.0
92.5°	187.0	124.7	62.3	0.0	33.8	67.7	101.5	135.4	169.2	203.1	236.9
95°	178.0	118.7	59.3	0.0	32.2	64.4	96.7	128.9	161.1	193.3	225.6
97.5°	166.9	111.2	55.6	0.0	30.8	61.6	92.5	123.3	154.1	184.9	215.8
100°	157.1	104.8	52.4	0.0	29.4	58.9	88.3	117.7	147.2	176.6	206.0
102.5°	147.4	98.3	49.1	0.0	27.8	55.6	83.4	111.2	139.1	166.9	194.7
105°	137.7	91.8	45.9	0.0	26.4	52.8	79.3	105.7	132.1	158.5	185.0
107.5°	127.2	84.8	42.4	0.0	24.8	49.6	74.4	99.2	124.0	148.8	173.6
110°	117.5	78.3	39.2	0.0	22.9	45.9	68.8	91.8	114.7	137.7	160.6



TEST NUMBER: P201407

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	106.4	70.9	35.5	0.0	21.1	42.2	63.3	84.4	105.4	126.5	147.6
115°	96.0	64.0	32.0	0.0	19.0	38.0	57.0	76.0	95.1	114.1	133.1
117.5°	85.5	57.0	28.5	0.0	17.2	34.3	51.5	68.6	85.8	102.9	120.1
120°	76.5	51.0	25.5	0.0	15.1	30.1	45.2	60.3	75.3	90.4	105.5
122.5°	67.4	45.0	22.5	0.0	13.2	26.4	39.6	52.8	66.1	79.3	92.5
125°	59.1	39.4	19.7	0.0	11.4	22.7	34.1	45.4	56.8	68.1	79.5
127.5°	51.5	34.3	17.2	0.0	9.3	18.5	27.8	37.1	46.3	55.6	64.9
130°	43.8	29.2	14.6	0.0	7.4	14.8	22.3	29.7	37.1	44.5	52.0
132.5°	36.9	24.6	12.3	0.0	5.8	11.6	17.4	23.2	28.9	34.7	40.5
135°	29.9	19.9	10.0	0.0	4.4	8.8	13.2	17.6	22.0	26.4	30.8
137.5°	22.9	15.3	7.6	0.0	3.0	6.0	9.0	12.0	15.1	18.1	21.1
140°	16.7	11.1	5.6	0.0	1.9	3.7	5.6	7.4	9.3	11.1	13.0
142.5°	11.8	7.9	3.9	0.0	0.9	1.8	2.8	3.7	4.6	5.5	6.5
145°	7.6	5.1	2.5	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6
147.5°	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.1	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.7	0.5	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: P201407

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6
2.5°	1141.5	1138.9	1137.7	1136.6	1135.4	1134.3	1133.1	1132.0	1130.8	1129.7	1128.5
5°	1126.2	1122.3	1120.4	1118.6	1116.7	1114.9	1113.0	1111.2	1109.3	1107.5	1105.6
7.5°	1108.6	1103.5	1100.9	1098.4	1095.8	1093.3	1090.7	1088.2	1085.6	1083.1	1080.5
10°	1088.9	1082.6	1079.8	1077.0	1074.3	1071.5	1068.7	1065.9	1063.2	1060.4	1057.6
12.5°	1066.7	1059.7	1057.1	1054.6	1052.0	1049.5	1046.9	1044.4	1041.8	1039.3	1036.7
15°	1042.3	1034.6	1033.2	1031.8	1030.4	1029.0	1027.7	1026.3	1024.9	1023.5	1022.1
17.5°	1017.5	1009.6	1009.8	1010.1	1010.3	1010.5	1010.8	1011.0	1011.2	1011.5	1011.7
20°	990.8	982.5	985.5	988.5	991.5	994.5	997.6	1000.6	1003.6	1006.6	1009.6
22.5°	965.6	957.5	964.4	971.4	978.3	985.3	992.2	999.2	1006.1	1013.1	1020.0
25°	936.2	928.3	939.7	951.0	962.4	973.7	985.1	996.4	1007.8	1019.1	1030.5
27.5°	908.1	901.1	916.4	931.7	947.0	962.3	977.6	992.9	1008.2	1023.5	1038.8
30°	884.0	878.2	897.0	915.8	934.5	953.3	972.1	990.9	1009.6	1028.4	1047.2
32.5°	857.4	853.2	875.0	896.8	918.6	940.4	962.1	983.9	1005.7	1027.5	1049.3
35°	838.1	836.5	860.6	884.7	908.8	932.9	957.0	981.1	1005.2	1029.3	1053.4
37.5°	820.5	821.9	847.9	873.8	899.8	925.7	951.7	977.6	1003.6	1029.5	1055.5
40°	801.0	805.2	833.0	860.8	888.6	916.4	944.3	972.1	999.9	1027.7	1055.5
42.5°	781.3	788.5	818.2	847.8	877.5	907.2	936.8	966.5	996.2	1025.8	1055.5
45°	759.7	769.7	801.2	832.7	864.3	895.8	927.3	958.8	990.4	1021.9	1053.4
47.5°	738.0	751.0	784.4	817.7	851.1	884.5	917.8	951.2	984.6	1017.9	1051.3
50°	714.3	730.1	765.1	800.1	835.1	870.1	905.1	940.1	975.1	1010.1	1045.1
52.5°	690.7	709.2	745.6	782.0	818.4	854.8	891.1	927.5	963.9	1000.3	1036.7
55°	666.4	688.4	726.2	764.0	801.7	839.5	877.3	915.1	952.8	990.6	1028.4
57.5°	640.8	665.4	704.8	744.2	783.6	823.0	862.4	901.8	941.2	980.6	1020.0
60°	615.6	642.5	683.3	724.1	764.9	805.7	846.4	887.2	928.0	968.8	1009.6
62.5°	588.8	617.5	659.7	701.9	744.0	786.2	828.4	870.6	912.7	954.9	997.1
65°	559.7	590.3	634.1	677.9	721.7	765.5	809.4	853.2	897.0	940.8	984.6
67.5°	530.3	563.2	607.9	652.7	697.4	742.1	786.9	831.6	876.3	921.1	965.8
70°	501.8	536.1	581.8	627.4	673.1	718.7	764.4	810.0	855.7	901.3	947.0
72.5°	467.5	502.7	549.5	596.3	643.2	690.0	736.8	783.6	830.5	877.3	924.1
75°	437.1	473.5	520.6	567.6	614.7	661.7	708.8	755.8	802.9	849.9	897.0
77.5°	407.0	444.3	491.4	538.4	585.5	632.5	679.6	726.6	773.7	820.7	867.8
80°	379.2	417.2	463.3	509.4	555.6	601.7	647.8	693.9	740.1	786.2	832.3
82.5°	349.8	388.0	433.9	479.8	525.7	571.6	617.4	663.3	709.2	755.1	801.0
85°	323.1	360.9	405.9	450.8	495.8	540.8	585.7	630.7	675.7	720.6	765.6
87.5°	299.0	335.8	380.1	424.4	468.6	512.9	557.2	601.5	645.7	690.0	734.3
90°	280.0	315.0	358.3	401.7	445.0	488.4	531.7	575.1	618.4	661.8	705.1
92.5°	270.8	304.6	346.8	389.0	431.1	473.3	515.5	557.7	599.8	642.0	684.2
95°	257.8	290.0	331.7	373.4	415.1	456.8	498.6	540.3	582.0	623.7	665.4
97.5°	246.6	277.4	318.4	359.5	400.5	441.5	482.6	523.6	564.6	605.7	646.7
100°	235.5	264.9	305.5	346.0	386.6	427.2	467.7	508.3	548.9	589.4	630.0
102.5°	222.5	250.3	290.2	330.0	369.9	409.8	449.6	489.5	529.4	569.2	609.1
105°	211.4	237.8	276.5	315.2	353.9	392.6	431.4	470.1	508.8	547.5	586.2
107.5°	198.4	223.2	261.0	298.8	336.5	374.3	412.1	449.9	487.6	525.4	563.2
110°	183.6	206.5	243.8	281.1	318.5	355.8	393.1	430.4	467.8	505.1	542.4



TEST NUMBER: P201407

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	168.7	189.8	225.5	261.2	296.9	332.6	368.3	404.0	439.7	475.4	511.1
115°	152.1	171.1	206.1	241.1	276.1	311.1	346.0	381.0	416.0	451.0	486.0
117.5°	137.2	154.4	188.5	222.5	256.6	290.7	324.7	358.8	392.9	426.9	461.0
120°	120.5	135.6	168.7	201.9	235.0	268.2	301.3	334.5	367.6	400.8	433.9
122.5°	105.7	118.9	150.9	182.9	214.9	246.9	278.8	310.8	342.8	374.8	406.8
125°	90.8	102.2	132.6	162.9	193.3	223.7	254.0	284.4	314.8	345.1	375.5
127.5°	74.1	83.4	111.9	140.4	168.9	197.4	226.0	254.5	283.0	311.5	340.0
130°	59.4	66.8	92.3	117.8	143.3	168.8	194.2	219.7	245.2	270.7	296.2
132.5°	46.3	52.1	74.6	97.1	119.6	142.1	164.5	187.0	209.5	232.0	254.5
135°	35.2	39.6	59.3	79.0	98.7	118.4	138.1	157.8	177.5	197.2	216.9
137.5°	24.1	27.1	44.3	61.4	78.6	95.7	112.9	130.0	147.2	164.3	181.5
140°	14.8	16.7	31.5	46.4	61.2	76.0	90.9	105.7	120.5	135.4	150.2
142.5°	7.4	8.3	21.1	33.8	46.6	59.3	72.1	84.8	97.6	110.3	123.1
145°	1.9	2.1	12.5	23.0	33.4	43.8	54.3	64.7	75.1	85.6	96.0
147.5°	0.0	0.0	8.1	16.2	24.3	32.4	40.6	48.7	56.8	64.9	73.0
150°	0.0	0.0	5.8	11.6	17.4	23.2	28.9	34.7	40.5	46.3	52.1
152.5°	0.0	0.0	3.9	7.9	11.8	15.8	19.7	23.7	27.6	31.6	35.5
155°	0.0	0.0	2.1	4.2	6.3	8.4	10.4	12.5	14.6	16.7	18.8
157.5°	0.0	0.0	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3
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: P201407

CATALOG NUMBER: 8LBLELD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6
2.5°	1127.6	1126.7	1125.7	1124.8	1123.9	1123.0	1122.0	1121.1	1120.2	1119.3	1118.3
5°	1104.0	1102.4	1100.7	1099.1	1097.5	1095.9	1094.2	1092.6	1091.0	1090.5	1090.1
7.5°	1079.1	1077.7	1076.3	1074.9	1073.6	1072.2	1070.8	1069.4	1068.0	1067.5	1067.1
10°	1056.9	1056.2	1055.5	1054.8	1054.1	1053.4	1052.7	1052.0	1051.3	1050.8	1050.4
12.5°	1037.2	1037.6	1038.1	1038.6	1039.0	1039.5	1040.0	1040.4	1040.9	1040.9	1040.9
15°	1024.2	1026.3	1028.4	1030.5	1032.5	1034.6	1036.7	1038.8	1040.9	1042.5	1044.1
17.5°	1017.3	1022.8	1028.4	1034.0	1039.5	1045.1	1050.7	1056.2	1061.8	1064.1	1066.4
20°	1017.9	1026.3	1034.6	1043.0	1051.3	1059.7	1068.0	1076.4	1084.7	1087.7	1090.7
22.5°	1029.7	1039.5	1049.2	1059.0	1068.7	1078.5	1088.2	1098.0	1107.7	1110.9	1114.2
25°	1041.4	1052.3	1063.2	1074.1	1084.9	1095.8	1106.7	1117.6	1128.5	1132.2	1135.9
27.5°	1050.9	1062.9	1075.0	1087.0	1099.1	1111.1	1123.2	1135.2	1147.3	1151.5	1155.6
30°	1060.4	1073.6	1086.8	1100.0	1113.3	1126.5	1139.7	1152.9	1166.1	1170.7	1175.4
32.5°	1063.9	1078.5	1093.1	1107.7	1122.3	1136.9	1151.5	1166.1	1180.7	1186.5	1192.3
35°	1069.4	1085.4	1101.4	1117.4	1133.4	1149.4	1165.4	1181.4	1197.4	1203.7	1209.9
37.5°	1072.9	1090.3	1107.7	1125.1	1142.4	1159.8	1177.2	1194.6	1212.0	1218.9	1225.9
40°	1074.5	1093.5	1112.5	1131.5	1150.6	1169.6	1188.6	1207.6	1226.6	1234.2	1241.9
42.5°	1075.9	1096.3	1116.7	1137.1	1157.5	1177.9	1198.3	1218.7	1239.1	1247.4	1255.8
45°	1075.4	1097.4	1119.5	1141.5	1163.5	1185.5	1207.6	1229.6	1251.6	1260.9	1270.1
47.5°	1074.9	1098.6	1122.2	1145.9	1169.5	1193.2	1216.8	1240.5	1264.1	1274.1	1284.0
50°	1070.6	1096.1	1121.6	1147.1	1172.5	1198.0	1223.5	1249.0	1274.5	1285.2	1295.8
52.5°	1064.1	1091.4	1118.8	1146.1	1173.5	1200.8	1228.2	1255.5	1282.9	1294.5	1306.1
55°	1057.6	1086.8	1116.0	1145.2	1174.4	1203.6	1232.8	1262.0	1291.2	1303.3	1315.3
57.5°	1050.6	1081.2	1111.8	1142.4	1173.0	1203.6	1234.2	1264.8	1295.4	1307.9	1320.4
60°	1041.6	1073.6	1105.6	1137.6	1169.5	1201.5	1233.5	1265.5	1297.5	1310.2	1323.0
62.5°	1030.2	1063.4	1096.5	1129.7	1162.8	1196.0	1229.1	1262.3	1295.4	1308.6	1321.8
65°	1018.4	1052.3	1086.1	1119.9	1153.8	1187.6	1221.4	1255.3	1289.1	1302.3	1315.5
67.5°	1000.6	1035.3	1070.1	1104.9	1139.6	1174.4	1209.2	1243.9	1278.7	1292.1	1305.6
70°	982.5	1017.9	1053.4	1088.9	1124.3	1159.8	1195.3	1230.7	1266.2	1279.4	1292.6
72.5°	959.6	995.0	1030.5	1065.9	1101.4	1136.8	1172.3	1207.7	1243.2	1256.4	1269.6
75°	932.7	968.4	1004.1	1039.8	1075.4	1111.1	1146.8	1182.5	1218.2	1231.2	1244.2
77.5°	903.3	938.7	974.2	1009.6	1045.1	1080.5	1116.0	1151.4	1186.9	1199.7	1212.4
80°	867.5	902.8	938.0	973.2	1008.5	1043.7	1078.9	1114.2	1149.4	1161.9	1174.4
82.5°	835.5	870.1	904.6	939.1	973.7	1008.2	1042.7	1077.3	1111.8	1124.3	1136.8
85°	799.7	833.7	867.8	901.9	935.9	970.0	1004.1	1038.1	1072.2	1084.5	1096.8
87.5°	767.4	800.6	833.7	866.9	900.0	933.2	966.3	999.5	1032.6	1044.9	1057.2
90°	737.5	770.0	802.4	834.9	867.3	899.8	932.2	964.7	997.1	1009.2	1021.2
92.5°	716.0	747.7	779.5	811.2	843.0	874.7	906.5	938.2	970.0	981.8	993.6
95°	696.5	727.5	758.6	789.7	820.7	851.8	882.9	913.9	945.0	956.6	968.2
97.5°	677.1	707.4	737.8	768.1	798.5	828.8	859.2	889.5	919.9	931.3	942.6
100°	659.7	689.3	719.0	748.7	778.3	808.0	837.7	867.3	897.0	907.9	918.8
102.5°	638.3	667.5	696.7	725.9	755.1	784.3	813.5	842.7	871.9	882.6	893.2
105°	614.9	643.7	672.4	701.1	729.9	758.6	787.3	816.1	844.8	855.7	866.6
107.5°	591.5	619.8	648.0	676.3	704.6	732.9	761.1	789.4	817.7	828.1	838.6
110°	569.5	596.6	623.7	650.8	678.0	705.1	732.2	759.3	786.4	796.8	807.3



TEST NUMBER: P201407

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	538.2	565.3	592.4	619.5	646.7	673.8	700.9	728.0	755.1	765.1	775.0
115°	512.4	538.8	565.3	591.7	618.1	644.5	671.0	697.4	723.8	733.5	743.3
117.5°	486.3	511.5	536.8	562.1	587.3	612.6	637.9	663.1	688.4	697.9	707.4
120°	458.2	482.6	506.9	531.2	555.6	579.9	604.2	628.6	652.9	662.4	671.9
122.5°	430.2	453.6	477.0	500.4	523.9	547.3	570.7	594.1	617.5	626.3	635.1
125°	398.2	420.9	443.6	466.3	489.1	511.8	534.5	557.2	579.9	588.5	597.1
127.5°	362.3	384.5	406.8	429.0	451.3	473.5	495.8	518.0	540.3	548.9	557.5
130°	318.2	340.2	362.3	384.3	406.3	428.3	450.4	472.4	494.4	503.0	511.6
132.5°	276.5	298.5	320.6	342.6	364.6	386.6	408.7	430.7	452.7	461.0	469.4
135°	238.2	259.6	280.9	302.2	323.6	344.9	366.2	387.6	408.9	416.1	423.3
137.5°	201.2	220.9	240.6	260.3	280.0	299.7	319.4	339.1	358.8	366.2	373.6
140°	167.8	185.4	203.0	220.6	238.3	255.9	273.5	291.1	308.7	316.1	323.5
142.5°	138.4	153.7	169.0	184.3	199.5	214.8	230.1	245.4	260.7	268.4	276.0
145°	109.2	122.4	135.6	148.8	162.1	175.3	188.5	201.7	214.9	222.8	230.7
147.5°	84.1	95.2	106.4	117.5	128.6	139.7	150.9	162.0	173.1	180.8	188.4
150°	61.4	70.7	79.9	89.2	98.5	107.8	117.0	126.3	135.6	143.0	150.4
152.5°	42.9	50.3	57.7	65.1	72.6	80.0	87.4	94.8	102.2	109.2	116.1
155°	24.6	30.4	36.2	42.0	47.7	53.5	59.3	65.1	70.9	77.4	83.9
157.5°	10.7	15.1	19.5	23.9	28.3	32.7	37.1	41.5	45.9	51.0	56.1
160°	2.5	5.1	7.6	10.2	12.7	15.3	17.8	20.4	22.9	27.1	31.3
162.5°	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	9.1	11.9
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: P201407

CATALOG NUMBER: 8LBLELD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6
2.5°	1117.4	1116.5	1115.5	1114.6	1113.7	1112.7	1111.8	1113.0	1114.1	1115.3	1116.5
5°	1089.6	1089.1	1088.7	1088.2	1087.7	1087.3	1086.8	1087.3	1087.7	1088.2	1088.7
7.5°	1066.6	1066.2	1065.7	1065.3	1064.8	1064.4	1063.9	1064.6	1065.3	1066.0	1066.7
10°	1049.9	1049.5	1049.0	1048.6	1048.1	1047.7	1047.2	1047.4	1047.7	1047.9	1048.1
12.5°	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9	1040.4	1040.0	1039.5	1039.0
15°	1045.8	1047.4	1049.0	1050.6	1052.3	1053.9	1055.5	1053.6	1051.8	1049.9	1048.1
17.5°	1068.7	1071.0	1073.4	1075.7	1078.0	1080.3	1082.6	1080.1	1077.5	1075.0	1072.4
20°	1093.7	1096.7	1099.8	1102.8	1105.8	1108.8	1111.8	1108.3	1104.8	1101.4	1097.9
22.5°	1117.4	1120.7	1123.9	1127.2	1130.4	1133.7	1136.9	1133.0	1129.0	1125.1	1121.1
25°	1139.6	1143.3	1147.1	1150.8	1154.5	1158.2	1161.9	1157.5	1153.1	1148.7	1144.3
27.5°	1159.8	1164.0	1168.1	1172.3	1176.5	1180.6	1184.8	1179.9	1175.1	1170.2	1165.3
30°	1180.0	1184.6	1189.3	1193.9	1198.5	1203.2	1207.8	1202.2	1196.7	1191.1	1185.5
32.5°	1198.1	1203.9	1209.6	1215.4	1221.2	1227.0	1232.8	1226.3	1219.8	1213.3	1206.8
35°	1216.2	1222.4	1228.7	1234.9	1241.2	1247.4	1253.7	1246.7	1239.8	1232.8	1225.9
37.5°	1232.8	1239.8	1246.7	1253.7	1260.6	1267.6	1274.5	1267.1	1259.7	1252.3	1244.9
40°	1249.5	1257.2	1264.8	1272.5	1280.1	1287.8	1295.4	1287.3	1279.2	1271.1	1263.0
42.5°	1264.1	1272.5	1280.8	1289.2	1297.5	1305.9	1314.2	1305.6	1297.0	1288.5	1279.9
45°	1279.4	1288.7	1297.9	1307.2	1316.5	1325.7	1335.0	1325.7	1316.5	1307.2	1297.9
47.5°	1294.0	1304.0	1313.9	1323.9	1333.9	1343.8	1353.8	1343.6	1333.4	1323.2	1313.0
50°	1306.5	1317.2	1327.8	1338.5	1349.2	1359.8	1370.5	1359.8	1349.2	1338.5	1327.8
52.5°	1317.7	1329.3	1340.8	1352.4	1364.0	1375.6	1387.2	1375.6	1364.0	1352.4	1340.8
55°	1327.4	1339.4	1351.5	1363.5	1375.6	1387.6	1399.7	1387.6	1375.6	1363.5	1351.5
57.5°	1332.9	1345.4	1358.0	1370.5	1383.0	1395.5	1408.0	1395.7	1383.4	1371.2	1358.9
60°	1335.7	1348.5	1361.2	1374.0	1386.7	1399.5	1412.2	1399.9	1387.6	1375.4	1363.1
62.5°	1335.0	1348.2	1361.5	1374.7	1387.9	1401.1	1414.3	1401.6	1388.8	1376.1	1363.3
65°	1328.7	1341.9	1355.2	1368.4	1381.6	1394.8	1408.0	1395.3	1382.5	1369.8	1357.0
67.5°	1319.0	1332.5	1345.9	1359.4	1372.8	1386.3	1399.7	1386.7	1373.7	1360.8	1347.8
70°	1305.8	1319.0	1332.3	1345.5	1358.7	1371.9	1385.1	1372.1	1359.1	1346.2	1333.2
72.5°	1282.8	1296.0	1309.3	1322.5	1335.7	1348.9	1362.1	1349.4	1336.6	1323.9	1311.1
75°	1257.1	1270.1	1283.1	1296.1	1309.0	1322.0	1335.0	1322.5	1310.0	1297.5	1285.0
77.5°	1225.2	1237.9	1250.7	1263.4	1276.2	1288.9	1301.7	1289.2	1276.7	1264.1	1251.6
80°	1186.9	1199.4	1212.0	1224.5	1237.0	1249.5	1262.0	1249.7	1237.4	1225.2	1212.9
82.5°	1149.4	1161.9	1174.4	1186.9	1199.5	1212.0	1224.5	1212.2	1199.9	1187.6	1175.3
85°	1109.1	1121.4	1133.6	1145.9	1158.2	1170.5	1182.8	1170.5	1158.2	1145.9	1133.6
87.5°	1069.4	1081.7	1094.0	1106.3	1118.5	1130.8	1143.1	1130.8	1118.5	1106.3	1094.0
90°	1033.3	1045.3	1057.4	1069.4	1081.5	1093.5	1105.6	1093.5	1081.5	1069.4	1057.4
92.5°	1005.5	1017.3	1029.1	1040.9	1052.8	1064.6	1076.4	1064.6	1052.8	1040.9	1029.1
95°	979.8	991.4	1002.9	1014.5	1026.1	1037.7	1049.3	1037.9	1026.6	1015.2	1003.8
97.5°	954.0	965.3	976.7	988.0	999.4	1010.7	1022.1	1011.2	1000.3	989.4	978.5
100°	929.7	940.6	951.4	962.3	973.2	984.1	995.0	984.3	973.7	963.0	952.4
102.5°	903.9	914.6	925.2	935.9	946.6	957.2	967.9	957.2	946.6	935.9	925.2
105°	877.5	888.4	899.3	910.2	921.1	932.0	942.9	932.2	921.6	910.9	900.2
107.5°	849.0	859.4	869.9	880.3	890.7	901.2	911.6	901.2	890.7	880.3	869.9
110°	817.7	828.1	838.6	849.0	859.4	869.9	880.3	869.9	859.4	849.0	838.6



TEST NUMBER: P201407

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	785.0	795.0	804.9	814.9	824.9	834.8	844.8	834.8	824.9	814.9	804.9
115°	753.0	762.7	772.5	782.2	791.9	801.7	811.4	801.7	791.9	782.2	772.5
117.5°	716.9	726.4	735.9	745.4	754.9	764.4	773.9	764.4	754.9	745.4	735.9
120°	681.4	690.9	700.4	709.9	719.4	728.9	738.4	729.4	720.3	711.3	702.3
122.5°	643.9	652.7	661.5	670.3	679.1	687.9	696.7	688.1	679.5	671.0	662.4
125°	605.6	614.2	622.8	631.4	639.9	648.5	657.1	648.8	640.4	632.1	623.7
127.5°	566.0	574.6	583.2	591.8	600.3	608.9	617.5	609.6	601.7	593.8	585.9
130°	520.1	528.7	537.3	545.9	554.4	563.0	571.6	563.7	555.8	547.9	540.0
132.5°	477.7	486.1	494.4	502.8	511.1	519.5	527.8	519.9	512.0	504.1	496.2
135°	430.4	437.6	444.8	452.0	459.1	466.3	473.5	466.8	460.1	453.3	446.6
137.5°	381.0	388.4	395.9	403.3	410.7	418.1	425.5	419.0	412.5	406.0	399.5
140°	331.0	338.4	345.8	353.2	360.7	368.1	375.5	369.7	363.9	358.1	352.3
142.5°	283.7	291.3	299.0	306.6	314.3	321.9	329.6	324.5	319.4	314.3	309.2
145°	238.5	246.4	254.3	262.2	270.0	277.9	285.8	281.2	276.5	271.9	267.3
147.5°	196.1	203.7	211.4	219.0	226.7	234.3	242.0	238.3	234.6	230.9	227.2
150°	157.8	165.2	172.7	180.1	187.5	194.9	202.3	199.1	195.8	192.6	189.3
152.5°	123.1	130.0	137.0	143.9	150.9	157.8	164.8	162.0	159.2	156.5	153.7
155°	90.4	96.9	103.3	109.8	116.3	122.8	129.3	126.8	124.2	121.7	119.1
157.5°	61.2	66.3	71.4	76.5	81.6	86.7	91.8	90.2	88.6	86.9	85.3
160°	35.4	39.6	43.8	48.0	52.1	56.3	60.5	59.1	57.7	56.3	54.9
162.5°	14.6	17.4	20.2	23.0	25.7	28.5	31.3	30.4	29.4	28.5	27.6
165°	2.8	3.7	4.6	5.5	6.5	7.4	8.3	8.1	7.9	7.6	7.4
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: P201407

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6
2.5°	1117.6	1118.8	1120.0	1121.1	1122.3	1123.9	1125.5	1127.2	1128.8	1130.4	1132.0
5°	1089.1	1089.6	1090.1	1090.5	1091.0	1093.5	1096.1	1098.6	1101.2	1103.7	1106.3
7.5°	1067.3	1068.0	1068.7	1069.4	1070.1	1072.4	1074.7	1077.1	1079.4	1081.7	1084.0
10°	1048.4	1048.6	1048.8	1049.1	1049.3	1051.4	1053.5	1055.5	1057.6	1059.7	1061.8
12.5°	1038.6	1038.1	1037.6	1037.2	1036.7	1038.1	1039.5	1040.9	1042.3	1043.7	1045.1
15°	1046.2	1044.4	1042.5	1040.7	1038.8	1038.1	1037.4	1036.7	1036.0	1035.4	1034.7
17.5°	1069.9	1067.3	1064.8	1062.2	1059.7	1055.3	1050.9	1046.5	1042.1	1037.6	1033.2
20°	1094.4	1090.9	1087.5	1084.0	1080.5	1073.3	1066.1	1059.0	1051.8	1044.6	1037.4
22.5°	1117.2	1113.2	1109.3	1105.3	1101.4	1092.8	1084.2	1075.7	1067.1	1058.5	1049.9
25°	1139.9	1135.5	1131.1	1126.7	1122.3	1112.1	1101.9	1091.7	1081.5	1071.3	1061.1
27.5°	1160.5	1155.6	1150.7	1145.9	1141.0	1129.4	1117.8	1106.2	1094.6	1083.1	1071.5
30°	1180.0	1174.4	1168.8	1163.3	1157.7	1145.0	1132.2	1119.5	1106.7	1094.0	1081.2
32.5°	1200.4	1193.9	1187.4	1180.9	1174.4	1160.0	1145.7	1131.3	1116.9	1102.6	1088.2
35°	1218.9	1212.0	1205.0	1198.1	1191.1	1175.3	1159.6	1143.8	1128.1	1112.3	1096.6
37.5°	1237.4	1230.0	1222.6	1215.2	1207.8	1190.6	1173.5	1156.3	1139.2	1122.0	1104.9
40°	1254.8	1246.7	1238.6	1230.5	1222.4	1203.9	1185.3	1166.8	1148.2	1129.7	1111.1
42.5°	1271.3	1262.7	1254.2	1245.6	1237.0	1216.8	1196.7	1176.5	1156.3	1136.2	1116.0
45°	1288.7	1279.4	1270.1	1260.9	1251.6	1229.6	1207.6	1185.5	1163.5	1141.5	1119.5
47.5°	1302.8	1292.6	1282.4	1272.2	1262.0	1238.4	1214.7	1191.1	1167.5	1143.8	1120.2
50°	1317.2	1306.5	1295.8	1285.2	1274.5	1249.0	1223.5	1198.0	1172.5	1147.1	1121.6
52.5°	1329.3	1317.7	1306.1	1294.5	1282.9	1255.5	1228.2	1200.8	1173.5	1146.1	1118.8
55°	1339.4	1327.4	1315.3	1303.3	1291.2	1262.2	1233.3	1204.3	1175.3	1146.4	1117.4
57.5°	1346.6	1334.3	1322.1	1309.8	1297.5	1266.9	1236.3	1205.7	1175.1	1144.5	1113.9
60°	1350.8	1338.5	1326.3	1314.0	1301.7	1269.5	1237.3	1205.0	1172.8	1140.6	1108.4
62.5°	1350.6	1337.8	1325.1	1312.3	1299.6	1266.2	1232.8	1199.5	1166.1	1132.7	1099.3
65°	1344.3	1331.5	1318.8	1306.0	1293.3	1259.0	1224.7	1190.4	1156.1	1121.8	1087.5
67.5°	1334.8	1321.8	1308.9	1295.9	1282.9	1247.9	1212.9	1177.9	1142.9	1107.9	1072.9
70°	1320.2	1307.2	1294.3	1281.3	1268.3	1232.6	1196.9	1161.2	1125.5	1089.8	1054.1
72.5°	1298.4	1285.6	1272.9	1260.1	1247.4	1211.7	1176.0	1140.3	1104.6	1069.0	1033.3
75°	1272.4	1259.9	1247.4	1234.9	1222.4	1186.5	1150.6	1114.6	1078.7	1042.8	1006.9
77.5°	1239.1	1226.6	1214.0	1201.5	1189.0	1153.3	1117.6	1081.9	1046.2	1010.6	974.9
80°	1200.6	1188.3	1176.1	1163.8	1151.5	1116.3	1081.0	1045.8	1010.6	975.3	940.1
82.5°	1163.1	1150.8	1138.5	1126.2	1113.9	1079.1	1044.4	1009.6	974.8	940.1	905.3
85°	1121.4	1109.1	1096.8	1084.5	1072.2	1038.4	1004.5	970.7	936.8	903.0	869.1
87.5°	1081.7	1069.4	1057.2	1044.9	1032.6	999.9	967.2	934.5	901.8	869.2	836.5
90°	1045.3	1033.3	1021.2	1009.2	997.1	965.1	933.1	901.1	869.1	837.2	805.2
92.5°	1017.3	1005.5	993.6	981.8	970.0	939.2	908.3	877.5	846.7	815.8	785.0
95°	992.5	981.1	969.7	958.4	947.0	916.9	886.8	856.6	826.5	796.4	766.3
97.5°	967.7	956.8	945.9	935.0	924.1	894.2	864.3	834.4	804.5	774.6	744.7
100°	941.7	931.1	920.4	909.8	899.1	869.7	840.2	810.8	781.3	751.9	722.4
102.5°	914.6	903.9	893.2	882.6	871.9	843.2	814.4	785.7	757.0	728.2	699.5
105°	889.6	878.9	868.2	857.6	846.9	818.6	790.3	762.1	733.8	705.5	677.2
107.5°	859.4	849.0	838.6	828.1	817.7	790.4	763.0	735.7	708.3	681.0	653.6
110°	828.1	817.7	807.3	796.8	786.4	760.0	733.6	707.1	680.7	654.3	627.9



TEST NUMBER: P201407

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	795.0	785.0	775.0	765.1	755.1	729.8	704.6	679.3	654.1	628.8	603.6
115°	762.7	753.0	743.3	733.5	723.8	698.5	673.3	648.0	622.8	597.5	572.3
117.5°	726.4	716.9	707.4	697.9	688.4	664.3	640.2	616.1	592.0	567.8	543.7
120°	693.2	684.2	675.2	666.1	657.1	633.5	609.8	586.2	562.5	538.9	515.2
122.5°	653.8	645.2	636.7	628.1	619.5	597.0	574.5	552.1	529.6	507.1	484.6
125°	615.4	607.0	598.7	590.3	582.0	560.2	538.4	516.6	494.8	473.1	451.3
127.5°	578.1	570.2	562.3	554.4	546.5	524.7	502.9	481.1	459.3	437.6	415.8
130°	532.2	524.3	516.4	508.5	500.6	480.0	459.4	438.7	418.1	397.5	376.9
132.5°	488.4	480.5	472.6	464.7	456.8	437.1	417.4	397.7	378.0	358.3	338.6
135°	439.9	433.2	426.4	419.7	413.0	394.9	376.8	358.8	340.7	322.6	304.5
137.5°	393.1	386.6	380.1	373.6	367.1	350.9	334.7	318.4	302.2	286.0	269.8
140°	346.5	340.7	334.9	329.1	323.3	308.7	294.1	279.5	264.9	250.3	235.7
142.5°	304.1	299.0	293.9	288.8	283.7	270.5	257.3	244.1	230.9	217.6	204.4
145°	262.6	258.0	253.4	248.7	244.1	232.3	220.5	208.6	196.8	185.0	173.2
147.5°	223.4	219.7	216.0	212.3	208.6	198.2	187.7	177.3	166.9	156.4	146.0
150°	186.1	182.8	179.6	176.3	173.1	164.1	155.0	146.0	137.0	127.9	118.9
152.5°	150.9	148.1	145.4	142.6	139.8	131.9	124.0	116.1	108.2	100.4	92.5
155°	116.6	114.0	111.5	108.9	106.4	99.7	93.0	86.2	79.5	72.8	66.1
157.5°	83.7	82.1	80.4	78.8	77.2	71.6	66.1	60.5	54.9	49.4	43.8
160°	53.6	52.2	50.8	49.4	48.0	44.1	40.1	36.2	32.2	28.3	24.3
162.5°	26.6	25.7	24.8	23.8	22.9	20.8	18.7	16.7	14.6	12.5	10.4
165°	7.2	7.0	6.7	6.5	6.3	5.6	4.9	4.2	3.5	2.8	2.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201407

CATALOG NUMBER: 8LBLELD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6
2.5°	1133.7	1135.3	1136.9	1137.6	1138.3	1139.0	1139.7	1140.3	1141.0	1141.7	1142.4
5°	1108.8	1111.4	1113.9	1115.3	1116.7	1118.1	1119.5	1120.8	1122.2	1123.6	1125.0
7.5°	1086.4	1088.7	1091.0	1092.9	1094.7	1096.6	1098.4	1100.3	1102.1	1104.0	1105.8
10°	1063.8	1065.9	1068.0	1070.3	1072.6	1075.0	1077.3	1079.6	1081.9	1084.3	1086.6
12.5°	1046.5	1047.9	1049.3	1050.9	1052.5	1054.2	1055.8	1057.4	1059.0	1060.7	1062.3
15°	1034.0	1033.3	1032.6	1033.3	1034.0	1034.7	1035.4	1036.0	1036.7	1037.4	1038.1
17.5°	1028.8	1024.4	1020.0	1018.8	1017.7	1016.5	1015.4	1014.2	1013.1	1011.9	1010.8
20°	1030.3	1023.1	1015.9	1012.2	1008.5	1004.8	1001.1	997.3	993.6	989.9	986.2
22.5°	1041.4	1032.8	1024.2	1016.6	1008.9	1001.3	993.6	986.0	978.3	970.7	963.0
25°	1050.9	1040.7	1030.5	1018.9	1007.3	995.7	984.1	972.6	961.0	949.4	937.8
27.5°	1059.9	1048.3	1036.7	1021.4	1006.1	990.8	975.5	960.3	945.0	929.7	914.4
30°	1068.5	1055.7	1043.0	1024.2	1005.4	986.7	967.9	949.1	930.3	911.6	892.8
32.5°	1073.8	1059.5	1045.1	1023.3	1001.5	979.7	957.9	936.2	914.4	892.6	870.8
35°	1080.8	1065.1	1049.3	1025.0	1000.6	976.3	951.9	927.6	903.2	878.9	854.5
37.5°	1087.7	1070.6	1053.4	1026.7	1000.1	973.4	946.8	920.1	893.5	866.8	840.2
40°	1092.6	1074.0	1055.5	1027.0	998.5	970.0	941.5	912.9	884.4	855.9	827.4
42.5°	1095.8	1075.7	1055.5	1025.1	994.8	964.4	934.0	903.7	873.3	842.9	812.6
45°	1097.4	1075.4	1053.4	1021.4	989.4	957.5	925.5	893.5	861.5	829.6	797.6
47.5°	1096.6	1072.9	1049.3	1015.5	981.6	947.8	913.9	880.1	846.2	812.4	778.5
50°	1096.1	1070.6	1045.1	1009.6	974.2	938.7	903.2	867.8	832.3	796.8	761.4
52.5°	1091.4	1064.1	1036.7	999.9	963.0	926.2	889.3	852.5	815.6	778.8	741.9
55°	1088.4	1059.5	1030.5	992.0	953.5	915.1	876.6	838.1	799.6	761.2	722.7
57.5°	1083.3	1052.7	1022.1	982.0	941.9	901.8	861.7	821.7	781.6	741.5	701.4
60°	1076.1	1043.9	1011.7	970.2	928.7	887.2	845.7	804.3	762.8	721.3	679.8
62.5°	1066.0	1032.6	999.2	956.3	913.4	870.6	827.7	784.8	741.9	699.1	656.2
65°	1053.2	1018.9	984.6	940.6	896.5	852.5	808.4	764.4	720.3	676.3	632.2
67.5°	1037.9	1002.9	967.9	922.7	877.5	832.3	787.1	741.9	696.7	651.5	606.3
70°	1018.4	982.7	947.0	901.1	855.2	809.3	763.4	717.6	671.7	625.8	579.9
72.5°	997.6	961.9	926.2	878.9	831.6	784.3	737.0	689.8	642.5	595.2	547.9
75°	970.9	935.0	899.1	851.8	804.5	757.2	709.9	662.7	615.4	568.1	520.8
77.5°	939.2	903.5	867.8	820.7	773.7	726.6	679.6	632.5	585.5	538.4	491.4
80°	904.9	869.6	834.4	787.8	741.2	694.6	648.0	601.5	554.9	508.3	461.7
82.5°	870.5	835.8	801.0	755.1	709.2	663.3	617.4	571.6	525.7	479.8	433.9
85°	835.3	801.4	767.6	722.4	677.2	632.0	586.8	541.7	496.5	451.3	406.1
87.5°	803.8	771.1	738.4	693.9	649.4	604.9	560.4	515.9	471.4	426.9	382.4
90°	773.2	741.2	709.2	665.9	622.5	579.2	535.9	492.5	449.2	405.9	362.5
92.5°	754.2	723.3	692.5	649.9	607.2	564.6	521.9	479.3	436.6	394.0	351.3
95°	736.1	706.0	675.9	633.7	591.5	549.3	507.1	465.0	422.8	380.6	338.4
97.5°	714.8	684.9	655.0	613.7	572.5	531.2	490.0	448.7	407.5	366.2	325.0
100°	693.0	663.5	634.1	593.8	553.5	513.1	472.8	432.5	392.2	351.8	311.5
102.5°	670.8	642.0	613.3	573.7	534.0	494.4	454.8	415.1	375.5	335.9	296.2
105°	649.0	620.7	592.4	553.5	514.5	475.6	436.7	397.7	358.8	319.9	280.9
107.5°	626.3	598.9	571.6	533.4	495.1	456.9	418.6	380.4	342.1	303.9	265.6
110°	601.4	575.0	548.6	511.1	473.5	436.0	398.4	360.9	323.3	285.8	248.2



TEST NUMBER: P201407

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	578.3	553.1	527.8	490.5	453.2	415.8	378.5	341.2	303.9	266.5	229.2
115°	547.0	521.8	496.5	460.6	424.6	388.7	352.8	316.8	280.9	245.0	209.0
117.5°	519.6	495.5	471.4	436.2	401.0	365.7	330.5	295.3	260.1	224.8	189.6
120°	491.6	467.9	444.3	410.2	376.2	342.1	308.0	274.0	239.9	205.8	171.8
122.5°	462.2	439.7	417.2	384.5	351.8	319.2	286.5	253.8	221.1	188.5	155.8
125°	429.5	407.7	385.9	355.1	324.3	293.4	262.6	231.8	201.0	170.1	139.3
127.5°	394.0	372.2	350.4	321.9	293.4	264.9	236.4	207.9	179.4	150.9	122.4
130°	356.2	335.6	315.0	288.8	262.6	236.4	210.2	184.1	157.9	131.7	105.5
132.5°	318.9	299.2	279.5	256.1	232.7	209.3	185.9	162.4	139.0	115.6	92.2
135°	286.5	268.4	250.3	228.7	207.2	185.6	164.1	142.5	121.0	99.4	77.9
137.5°	253.5	237.3	221.1	201.4	181.7	162.0	142.3	122.6	102.9	83.2	63.5
140°	221.1	206.5	191.9	174.3	156.7	139.1	121.5	103.8	86.2	68.6	51.0
142.5°	191.2	178.0	164.8	149.3	133.7	118.2	102.7	87.1	71.6	56.1	40.5
145°	161.3	149.5	137.7	124.3	110.8	97.4	83.9	70.5	57.0	43.6	30.1
147.5°	135.6	125.1	114.7	103.1	91.5	79.9	68.3	56.8	45.2	33.6	22.0
150°	109.9	100.8	91.8	82.3	72.8	63.3	53.8	44.3	34.8	25.3	15.8
152.5°	84.6	76.7	68.8	61.4	54.0	46.6	39.2	31.7	24.3	16.9	9.5
155°	59.3	52.6	45.9	41.0	36.2	31.3	26.4	21.6	16.7	11.8	7.0
157.5°	38.2	32.7	27.1	24.1	21.1	18.1	15.1	12.0	9.0	6.0	3.0
160°	20.4	16.4	12.5	11.1	9.7	8.3	6.9	5.6	4.2	2.8	1.4
162.5°	8.4	6.3	4.2	3.7	3.3	2.8	2.3	1.9	1.4	0.9	0.5
165°	1.4	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: P201407

CATALOG NUMBER: 8LBLELD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6
2.5°	1143.1	1146.8	1150.5	1154.2	1157.9	1161.7	1165.4	1169.1	1172.8	1176.5	1176.3
5°	1126.4	1131.3	1136.1	1141.0	1145.9	1150.7	1155.6	1160.5	1165.3	1170.2	1171.6
7.5°	1107.7	1113.7	1119.7	1125.8	1131.8	1137.8	1143.8	1149.9	1155.9	1161.9	1164.9
10°	1088.9	1095.6	1102.3	1109.1	1115.8	1122.5	1129.2	1136.0	1142.7	1149.4	1154.3
12.5°	1063.9	1071.3	1078.7	1086.1	1093.5	1101.0	1108.4	1115.8	1123.2	1130.6	1137.6
15°	1038.8	1047.1	1055.5	1063.8	1072.2	1080.5	1088.9	1097.2	1105.6	1113.9	1122.5
17.5°	1009.6	1018.6	1027.7	1036.7	1045.8	1054.8	1063.9	1072.9	1082.0	1091.0	1101.7
20°	982.5	991.5	1000.6	1009.6	1018.7	1027.7	1036.8	1045.8	1054.9	1063.9	1077.1
22.5°	955.4	964.4	973.5	982.5	991.5	1000.6	1009.6	1018.6	1027.7	1036.7	1052.5
25°	926.2	935.0	943.8	952.6	961.4	970.2	979.0	987.8	996.6	1005.4	1023.7
27.5°	899.1	907.2	915.3	923.4	931.5	939.7	947.8	955.9	964.0	972.1	993.2
30°	874.0	881.0	887.9	894.9	901.8	908.8	915.7	922.7	929.6	936.6	960.7
32.5°	849.0	854.3	859.7	865.0	870.3	875.7	881.0	886.3	891.7	897.0	924.6
35°	830.2	833.2	836.2	839.2	842.2	845.3	848.3	851.3	854.3	857.3	888.4
37.5°	813.5	813.7	814.0	814.2	814.4	814.7	814.9	815.1	815.4	815.6	850.1
40°	798.9	796.1	793.3	790.6	787.8	785.0	782.2	779.5	776.7	773.9	811.9
42.5°	782.2	776.2	770.2	764.1	758.1	752.1	746.1	740.0	734.0	728.0	769.5
45°	765.6	756.6	747.5	738.5	729.4	720.4	711.3	702.3	693.2	684.2	728.9
47.5°	744.7	732.9	721.1	709.2	697.4	685.6	673.8	661.9	650.1	638.3	686.5
50°	725.9	710.8	695.8	680.7	665.6	650.6	635.5	620.4	605.4	590.3	642.0
52.5°	705.1	687.2	669.4	651.5	633.7	615.8	598.0	580.1	562.3	544.4	599.1
55°	684.2	663.1	642.0	620.9	599.8	578.8	557.7	536.6	515.5	494.4	552.6
57.5°	661.3	637.7	614.0	590.4	566.7	543.1	519.4	495.8	472.1	448.5	509.5
60°	638.3	612.1	585.9	559.7	533.5	507.4	481.2	455.0	428.8	402.6	466.6
62.5°	613.3	585.0	556.7	528.5	500.2	471.9	443.6	415.4	387.1	358.8	425.1
65°	588.2	557.6	527.0	496.4	465.8	435.3	404.7	374.1	343.5	312.9	381.5
67.5°	561.1	528.7	496.2	463.8	431.3	398.9	366.4	334.0	301.5	269.1	339.3
70°	534.0	499.7	465.4	431.1	396.8	362.5	328.2	293.9	259.6	225.3	297.4
72.5°	500.6	465.4	430.2	394.9	359.7	324.5	289.3	254.0	218.8	183.6	256.6
75°	473.5	436.9	400.3	363.6	327.0	290.4	253.8	217.1	180.5	143.9	217.4
77.5°	444.3	407.0	369.7	332.4	295.1	257.7	220.4	183.1	145.8	108.5	182.0
80°	415.1	377.3	339.5	301.8	264.0	226.2	188.4	150.7	112.9	75.1	147.9
82.5°	388.0	350.0	312.0	274.0	236.0	197.9	159.9	121.9	83.9	45.9	117.5
85°	360.9	323.3	285.8	248.2	210.7	173.1	135.6	98.0	60.5	22.9	92.9
87.5°	337.9	301.3	264.7	228.0	191.4	154.8	118.2	81.5	44.9	8.3	76.0
90°	319.2	283.7	248.3	212.8	177.3	141.9	106.4	70.9	35.5	0.0	65.1
92.5°	308.7	274.6	240.6	206.5	172.4	138.4	104.3	70.2	36.2	2.1	64.2
95°	296.2	263.5	230.8	198.2	165.5	132.8	100.1	67.5	34.8	2.1	61.2
97.5°	283.7	252.4	221.1	189.8	158.5	127.3	96.0	64.7	33.4	2.1	57.5
100°	271.2	241.3	211.4	181.5	151.6	121.7	91.8	61.9	32.0	2.1	54.2
102.5°	256.6	228.1	199.6	171.1	142.6	114.0	85.5	57.0	28.5	0.0	48.9
105°	242.0	215.3	188.7	162.0	135.4	108.7	82.1	55.4	28.8	2.1	47.3
107.5°	227.4	202.4	177.3	152.3	127.3	102.2	77.2	52.2	27.1	2.1	43.8
110°	210.7	187.5	164.3	141.2	118.0	94.8	71.6	48.5	25.3	2.1	40.3



TEST NUMBER: P201407

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	191.9	170.8	149.7	128.6	107.5	86.5	65.4	44.3	23.2	2.1	36.9
115°	173.1	154.1	135.1	116.1	97.1	78.1	59.1	40.1	21.1	2.1	33.4
117.5°	154.4	137.5	120.6	103.6	86.7	69.8	52.9	35.9	19.0	2.1	29.9
120°	137.7	122.6	107.6	92.5	77.4	62.4	47.3	32.2	17.2	2.1	26.7
122.5°	123.1	109.7	96.2	82.8	69.3	55.9	42.4	29.0	15.5	2.1	23.7
125°	108.5	96.7	84.9	73.0	61.2	49.4	37.6	25.7	13.9	2.1	20.6
127.5°	93.9	83.7	73.5	63.3	53.1	42.9	32.7	22.5	12.3	2.1	17.6
130°	79.3	70.7	62.1	53.6	45.0	36.4	27.8	19.3	10.7	2.1	14.8
132.5°	68.8	61.4	54.0	46.6	39.2	31.7	24.3	16.9	9.5	2.1	12.5
135°	56.3	50.3	44.3	38.2	32.2	26.2	20.2	14.1	8.1	2.1	10.2
137.5°	43.8	39.2	34.5	29.9	25.3	20.6	16.0	11.4	6.7	2.1	8.1
140°	33.4	29.9	26.4	23.0	19.5	16.0	12.5	9.1	5.6	2.1	6.5
142.5°	25.0	22.5	19.9	17.4	14.8	12.3	9.7	7.2	4.6	2.1	5.1
145°	16.7	15.1	13.5	11.8	10.2	8.6	7.0	5.3	3.7	2.1	4.4
147.5°	10.4	9.5	8.6	7.6	6.7	5.8	4.9	3.9	3.0	2.1	4.0
150°	6.3	5.8	5.4	4.9	4.4	4.0	3.5	3.0	2.6	2.1	3.5
152.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.3
155°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8
157.5°	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	2.6
160°	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	2.3
162.5°	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	2.1
165°	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	2.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201407

CATALOG NUMBER: 8LBLELD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6
2.5°	1176.0	1175.8	1175.6	1175.3	1175.1	1174.9	1174.6	1174.4	1175.6	1176.7	1177.9
5°	1173.0	1174.4	1175.8	1177.2	1178.6	1180.0	1181.4	1182.8	1185.6	1188.4	1191.1
7.5°	1167.9	1170.9	1173.9	1177.0	1180.0	1183.0	1186.0	1189.0	1193.4	1197.8	1202.2
10°	1159.1	1164.0	1168.9	1173.7	1178.6	1183.5	1188.3	1193.2	1199.7	1206.2	1212.7
12.5°	1144.5	1151.5	1158.4	1165.4	1172.3	1179.3	1186.2	1193.2	1202.2	1211.3	1220.3
15°	1131.1	1139.6	1148.2	1156.8	1165.4	1173.9	1182.5	1191.1	1203.2	1215.2	1227.3
17.5°	1112.3	1123.0	1133.6	1144.3	1154.9	1165.6	1176.2	1186.9	1202.7	1218.4	1234.2
20°	1090.3	1103.5	1116.7	1130.0	1143.2	1156.4	1169.6	1182.8	1202.7	1222.6	1242.6
22.5°	1068.2	1084.0	1099.8	1115.5	1131.3	1147.1	1162.8	1178.6	1202.5	1226.3	1250.2
25°	1042.0	1060.3	1078.6	1097.0	1115.3	1133.6	1151.9	1170.2	1198.2	1226.3	1254.3
27.5°	1014.3	1035.4	1056.5	1077.5	1098.6	1119.7	1140.8	1161.9	1194.1	1226.3	1258.5
30°	984.8	1008.9	1033.0	1057.2	1081.3	1105.4	1129.5	1153.6	1189.8	1225.9	1262.1
32.5°	952.2	979.7	1007.3	1034.9	1062.5	1090.0	1117.6	1145.2	1184.8	1224.5	1264.1
35°	919.4	950.5	981.6	1012.6	1043.7	1074.8	1105.8	1136.9	1180.0	1223.1	1266.2
37.5°	884.7	919.2	953.7	988.3	1022.8	1057.3	1091.9	1126.4	1173.2	1220.0	1266.9
40°	849.9	887.9	925.9	964.0	1002.0	1040.0	1078.0	1116.0	1166.3	1216.6	1266.9
42.5°	811.0	852.5	894.0	935.4	976.9	1018.4	1059.9	1101.4	1155.4	1209.4	1263.4
45°	773.7	818.4	863.1	907.9	952.6	997.3	1042.1	1086.8	1144.5	1202.2	1259.9
47.5°	734.7	782.9	831.1	879.4	927.6	975.8	1024.0	1072.2	1133.4	1194.6	1255.8
50°	693.7	745.4	797.1	848.7	900.4	952.1	1003.8	1055.5	1120.2	1184.8	1249.5
52.5°	653.8	708.5	763.2	817.9	872.6	927.3	982.0	1036.7	1104.8	1173.0	1241.1
55°	610.8	668.9	727.1	785.3	843.5	901.6	959.8	1018.0	1090.1	1162.2	1234.2
57.5°	570.4	631.4	692.3	753.3	814.2	875.2	936.1	997.1	1073.1	1149.1	1225.2
60°	530.5	594.5	658.5	722.4	786.4	850.4	914.3	978.3	1058.3	1138.2	1218.2
62.5°	491.4	557.7	624.0	690.2	756.5	822.8	889.1	955.4	1039.3	1123.2	1207.1
65°	450.1	518.7	587.3	656.0	724.6	793.2	861.8	930.4	1018.2	1106.1	1193.9
67.5°	409.5	479.8	550.0	620.2	690.4	760.7	830.9	901.1	992.7	1084.2	1175.8
70°	369.5	441.5	513.6	585.7	657.8	729.8	801.9	874.0	968.1	1062.2	1156.3
72.5°	329.6	402.6	475.6	548.7	621.7	694.7	767.7	840.7	936.4	1032.1	1127.9
75°	290.9	364.3	437.8	511.3	584.8	658.2	731.7	805.2	901.2	997.1	1093.1
77.5°	255.4	328.9	402.4	475.8	549.3	622.8	696.2	769.7	864.7	959.8	1054.8
80°	220.7	293.4	366.2	439.0	511.8	584.5	657.3	730.1	823.0	916.0	1008.9
82.5°	189.1	260.8	332.4	404.0	475.6	547.3	618.9	690.5	781.1	871.7	962.4
85°	162.9	232.9	302.9	372.9	442.9	512.9	582.9	652.9	740.3	827.7	915.0
87.5°	143.7	211.4	279.1	346.7	414.4	482.1	549.8	617.5	701.9	786.2	870.6
90°	130.3	195.4	260.5	325.7	390.8	455.9	521.1	586.2	667.5	748.9	830.2
92.5°	126.3	188.4	250.5	312.7	374.8	436.9	499.0	561.1	639.9	718.7	797.5
95°	120.3	179.4	238.5	297.6	356.7	415.8	474.9	534.0	610.5	687.0	763.5
97.5°	112.9	168.3	223.7	279.0	334.4	389.8	445.2	500.6	575.7	650.8	725.9
100°	106.4	158.5	210.7	262.8	315.0	367.1	419.3	471.4	545.1	618.8	692.5
102.5°	97.8	146.7	195.6	244.5	293.4	342.3	391.2	440.1	512.2	584.3	656.4
105°	92.5	137.7	182.9	228.1	273.3	318.5	363.7	408.9	479.1	549.3	619.6
107.5°	85.5	127.3	169.0	210.7	252.4	294.2	335.9	377.6	446.0	514.3	582.7
110°	78.6	116.8	155.1	193.3	231.6	269.8	308.1	346.3	412.8	479.3	545.9



TEST NUMBER: P201407

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	71.6	106.4	141.2	175.9	210.7	245.5	280.2	315.0	379.7	444.3	509.0
115°	64.7	96.0	127.3	158.5	189.8	221.1	252.4	283.7	346.0	408.4	470.7
117.5°	57.7	85.5	113.3	141.2	169.0	196.8	224.6	252.4	312.7	372.9	433.2
120°	51.2	75.8	100.4	124.9	149.5	174.1	198.6	223.2	280.9	338.6	396.3
122.5°	45.2	66.8	88.3	109.9	131.4	153.0	174.5	196.1	250.6	305.0	359.5
125°	39.2	57.7	76.3	94.8	113.4	131.9	150.5	169.0	220.0	271.0	322.0
127.5°	33.1	48.7	64.2	79.7	95.2	110.8	126.3	141.8	188.6	235.4	282.3
130°	27.6	40.3	53.1	65.8	78.6	91.3	104.1	116.8	157.6	198.4	239.2
132.5°	23.0	33.4	43.8	54.3	64.7	75.1	85.6	96.0	131.5	166.9	202.4
135°	18.3	26.4	34.5	42.7	50.8	58.9	67.0	75.1	105.7	136.3	166.9
137.5°	14.1	20.2	26.2	32.2	38.2	44.3	50.3	56.3	82.7	109.1	135.6
140°	10.9	15.3	19.7	24.1	28.5	32.9	37.3	41.7	64.2	86.7	109.2
142.5°	8.1	11.1	14.1	17.2	20.2	23.2	26.2	29.2	48.2	67.2	86.2
145°	6.7	9.0	11.3	13.7	16.0	18.3	20.6	22.9	38.4	54.0	69.5
147.5°	5.8	7.7	9.5	11.4	13.2	15.1	16.9	18.8	31.1	43.4	55.6
150°	4.9	6.3	7.7	9.0	10.4	11.8	13.2	14.6	23.9	33.1	42.4
152.5°	4.4	5.6	6.7	7.9	9.0	10.2	11.3	12.5	19.0	25.5	32.0
155°	3.5	4.2	4.9	5.5	6.2	6.9	7.6	8.3	12.7	17.1	21.5
157.5°	3.0	3.5	4.0	4.4	4.9	5.4	5.8	6.3	8.8	11.4	13.9
160°	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	5.6	7.0	8.4
162.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	3.5	4.2
165°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.6	2.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201407

CATALOG NUMBER: 8LBLEDD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6
2.5°	1179.0	1180.2	1181.3	1182.5	1183.6	1184.8	1185.0	1185.3	1185.5	1185.7	1186.0
5°	1193.9	1196.7	1199.5	1202.2	1205.0	1207.8	1209.2	1210.6	1212.0	1213.4	1214.7
7.5°	1206.6	1211.0	1215.4	1219.8	1224.2	1228.6	1231.6	1234.6	1237.7	1240.7	1243.7
10°	1219.2	1225.6	1232.1	1238.6	1245.1	1251.6	1256.5	1261.3	1266.2	1271.1	1275.9
12.5°	1229.3	1238.4	1247.4	1256.4	1265.5	1274.5	1281.9	1289.3	1296.8	1304.2	1311.6
15°	1239.3	1251.4	1263.4	1275.5	1287.5	1299.6	1309.8	1320.0	1330.2	1340.4	1350.6
17.5°	1250.0	1265.7	1281.5	1297.3	1313.0	1328.8	1342.0	1355.2	1368.4	1381.6	1394.9
20°	1262.5	1282.4	1302.3	1322.3	1342.2	1362.1	1377.6	1393.2	1408.7	1424.2	1439.8
22.5°	1274.1	1297.9	1321.8	1345.7	1369.5	1393.4	1411.3	1429.1	1447.0	1464.8	1482.7
25°	1282.4	1310.4	1338.5	1366.5	1394.6	1422.6	1443.2	1463.9	1484.5	1505.1	1525.8
27.5°	1290.7	1323.0	1355.2	1387.4	1419.6	1451.8	1474.3	1496.8	1519.3	1541.8	1564.2
30°	1298.2	1334.4	1370.5	1406.7	1442.8	1479.0	1503.8	1528.6	1553.4	1578.2	1603.0
32.5°	1303.7	1343.4	1383.0	1422.6	1462.3	1501.9	1529.5	1557.1	1584.6	1612.2	1639.8
35°	1309.3	1352.5	1395.6	1438.7	1481.8	1524.9	1555.5	1586.1	1616.7	1647.3	1677.8
37.5°	1313.7	1360.5	1407.3	1454.2	1501.0	1547.8	1580.9	1614.1	1647.2	1680.4	1713.5
40°	1317.2	1367.5	1417.8	1468.1	1518.4	1568.7	1605.1	1641.5	1677.9	1714.3	1750.6
42.5°	1317.4	1371.4	1425.4	1479.4	1533.4	1587.4	1627.0	1666.7	1706.3	1745.9	1785.6
45°	1317.6	1375.4	1433.1	1490.8	1548.5	1606.2	1649.5	1692.9	1736.2	1779.6	1822.9
47.5°	1317.0	1378.1	1439.3	1500.5	1561.7	1622.9	1670.2	1717.5	1764.7	1812.0	1859.3
50°	1314.2	1378.8	1443.5	1508.2	1572.8	1637.5	1689.6	1741.8	1793.9	1846.1	1898.2
52.5°	1309.3	1377.4	1445.6	1513.7	1581.9	1650.0	1706.8	1763.6	1820.4	1877.2	1933.9
55°	1306.3	1378.4	1450.5	1522.5	1594.6	1666.7	1727.9	1789.1	1850.3	1911.5	1972.6
57.5°	1301.2	1377.2	1453.2	1529.3	1605.3	1681.3	1747.1	1812.9	1878.8	1944.6	2010.4
60°	1298.2	1378.1	1458.1	1538.1	1618.0	1698.0	1767.3	1836.6	1905.9	1975.2	2044.5
62.5°	1291.0	1374.9	1458.8	1542.7	1626.6	1710.5	1783.3	1856.1	1928.8	2001.6	2074.4
65°	1281.7	1369.6	1457.4	1545.2	1633.1	1720.9	1796.2	1871.6	1946.9	2022.2	2097.6
67.5°	1267.3	1358.9	1450.4	1542.0	1633.5	1725.1	1802.5	1879.9	1957.3	2034.7	2112.2
70°	1250.4	1344.5	1438.6	1532.7	1626.8	1720.9	1799.2	1877.6	1955.9	2034.3	2112.6
72.5°	1223.6	1319.3	1415.0	1510.8	1606.5	1702.2	1780.8	1859.3	1937.9	2016.5	2095.0
75°	1189.0	1285.0	1380.9	1476.9	1572.8	1668.8	1746.7	1824.6	1902.4	1980.3	2058.2
77.5°	1149.8	1244.9	1339.9	1434.9	1530.0	1625.0	1700.8	1776.6	1852.4	1928.2	2003.9
80°	1101.9	1194.8	1287.8	1380.7	1473.7	1566.6	1640.1	1713.5	1787.0	1860.5	1933.9
82.5°	1053.0	1143.6	1234.2	1324.9	1415.5	1506.1	1576.8	1647.5	1718.2	1788.9	1859.5
85°	1002.4	1089.8	1177.2	1264.5	1351.9	1439.3	1507.4	1575.6	1643.7	1711.9	1780.0
87.5°	955.0	1039.3	1123.7	1208.1	1292.4	1376.8	1442.2	1507.5	1572.9	1638.2	1703.6
90°	911.6	992.9	1074.3	1155.6	1237.0	1318.3	1380.9	1443.5	1506.1	1568.7	1631.2
92.5°	876.3	955.2	1034.0	1112.8	1191.6	1270.4	1330.4	1390.4	1450.5	1510.5	1570.5
95°	840.0	916.4	992.9	1069.4	1145.9	1222.4	1280.6	1338.8	1396.9	1455.1	1513.3
97.5°	801.0	876.1	951.2	1026.3	1101.4	1176.5	1232.4	1288.2	1344.1	1399.9	1455.8
100°	766.2	840.0	913.7	987.4	1061.1	1134.8	1188.8	1242.8	1296.8	1350.8	1404.8
102.5°	728.5	800.5	872.6	944.7	1016.8	1088.9	1141.5	1194.1	1246.7	1299.3	1352.0
105°	689.8	760.0	830.2	900.5	970.7	1040.9	1092.6	1144.3	1196.0	1247.7	1299.3
107.5°	651.1	719.4	787.8	856.2	924.5	992.9	1043.2	1093.5	1143.8	1194.1	1244.4
110°	612.4	678.9	745.4	812.0	878.5	945.0	993.9	1042.8	1091.7	1140.6	1189.5



TEST NUMBER: P201407

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	573.7	638.3	703.0	767.7	832.3	897.0	944.0	991.1	1038.1	1085.2	1132.2
115°	533.1	595.4	657.8	720.1	782.5	844.8	890.2	935.7	981.1	1026.5	1072.0
117.5°	493.5	553.7	614.0	674.3	734.5	794.8	838.4	881.9	925.5	969.1	1012.6
120°	454.0	511.8	569.5	627.2	684.9	742.6	784.3	826.0	867.8	909.5	951.2
122.5°	414.0	468.4	522.9	577.4	631.8	686.3	726.4	766.5	806.6	846.7	886.8
125°	373.0	423.9	474.9	525.9	576.9	627.9	666.8	705.8	744.7	783.6	822.6
127.5°	329.1	375.9	422.7	469.6	516.4	563.2	601.4	639.7	677.9	716.2	754.4
130°	280.0	320.7	361.5	402.3	443.1	483.9	522.6	561.3	600.0	638.7	677.5
132.5°	237.8	273.3	308.7	344.2	379.6	415.1	453.3	491.6	529.8	568.1	606.3
135°	197.5	228.0	258.6	289.2	319.8	350.4	387.3	424.1	461.0	497.8	534.7
137.5°	162.0	188.4	214.8	241.3	267.7	294.1	327.9	361.8	395.6	429.5	463.3
140°	131.7	154.1	176.6	199.1	221.6	244.1	272.4	300.7	328.9	357.2	385.5
142.5°	105.2	124.3	143.3	162.3	181.3	200.3	225.1	249.9	274.7	299.5	324.3
145°	85.0	100.6	116.1	131.6	147.2	162.7	183.1	203.5	223.9	244.3	264.7
147.5°	67.9	80.2	92.5	104.7	117.0	129.3	146.0	162.7	179.4	196.1	212.7
150°	51.7	60.9	70.2	79.5	88.7	98.0	111.2	124.4	137.6	150.8	164.1
152.5°	38.5	44.9	51.4	57.9	64.4	70.9	81.6	92.2	102.9	113.6	124.2
155°	25.9	30.4	34.8	39.2	43.6	48.0	56.3	64.7	73.0	81.4	89.7
157.5°	16.5	19.0	21.6	24.1	26.7	29.2	35.2	41.2	47.3	53.3	59.3
160°	9.8	11.1	12.5	13.9	15.3	16.7	20.4	24.1	27.8	31.5	35.3
162.5°	4.9	5.5	6.2	6.9	7.6	8.3	10.2	12.0	13.9	15.7	17.6
165°	3.0	3.3	3.5	3.7	4.0	4.2	4.9	5.6	6.3	7.0	7.6
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: P201407

CATALOG NUMBER: 8LBLELD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6	1155.6
2.5°	1186.2	1186.4	1186.7	1186.9	1185.7	1184.6	1183.4	1182.3	1181.1	1180.0	1178.8
5°	1216.1	1217.5	1218.9	1220.3	1220.1	1219.8	1219.6	1219.4	1219.1	1218.9	1218.7
7.5°	1246.7	1249.8	1252.8	1255.8	1256.7	1257.6	1258.6	1259.5	1260.4	1261.3	1262.3
10°	1280.8	1285.7	1290.5	1295.4	1296.6	1297.7	1298.9	1300.0	1301.2	1302.3	1303.5
12.5°	1319.0	1326.5	1333.9	1341.3	1343.6	1345.9	1348.2	1350.5	1352.9	1355.2	1357.5
15°	1360.8	1371.0	1381.2	1391.4	1395.3	1399.3	1403.2	1407.1	1411.1	1415.0	1418.9
17.5°	1408.1	1421.3	1434.5	1447.7	1452.3	1457.0	1461.6	1466.2	1470.9	1475.5	1480.1
20°	1455.3	1470.8	1486.4	1501.9	1507.2	1512.6	1517.9	1523.2	1528.6	1533.9	1539.2
22.5°	1500.5	1518.4	1536.2	1554.1	1560.4	1566.6	1572.9	1579.1	1585.4	1591.6	1597.9
25°	1546.4	1567.0	1587.7	1608.3	1615.0	1621.7	1628.5	1635.2	1641.9	1648.6	1655.4
27.5°	1586.7	1609.2	1631.7	1654.2	1661.6	1669.0	1676.4	1683.8	1691.3	1698.7	1706.1
30°	1627.8	1652.6	1677.4	1702.2	1710.8	1719.3	1727.9	1736.5	1745.0	1753.6	1762.2
32.5°	1667.4	1694.9	1722.5	1750.1	1760.1	1770.0	1780.0	1790.0	1799.9	1809.9	1819.9
35°	1708.4	1739.0	1769.6	1800.2	1811.3	1822.4	1833.6	1844.7	1855.8	1866.9	1878.1
37.5°	1746.7	1779.8	1813.0	1846.1	1859.1	1872.1	1885.0	1898.0	1911.0	1924.0	1936.9
40°	1787.0	1823.4	1859.8	1896.2	1910.8	1925.4	1940.0	1954.6	1969.2	1983.8	1998.4
42.5°	1825.2	1864.8	1904.5	1944.1	1960.6	1977.0	1993.5	2009.9	2026.4	2042.8	2059.3
45°	1866.3	1909.6	1953.0	1996.3	2014.4	2032.5	2050.5	2068.6	2086.7	2104.8	2122.8
47.5°	1906.6	1953.8	2001.1	2048.4	2068.8	2089.2	2109.6	2130.0	2150.4	2170.8	2191.2
50°	1950.4	2002.5	2054.7	2106.8	2128.8	2150.8	2172.9	2194.9	2216.9	2238.9	2261.0
52.5°	1990.7	2047.5	2104.3	2161.1	2185.2	2209.3	2233.4	2257.5	2281.6	2305.7	2329.8
55°	2033.8	2095.0	2156.2	2217.4	2243.4	2269.3	2295.3	2321.2	2347.2	2373.1	2399.1
57.5°	2076.2	2142.1	2207.9	2273.7	2300.8	2327.9	2355.1	2382.2	2409.3	2436.4	2463.6
60°	2113.8	2183.1	2252.4	2321.7	2350.0	2378.3	2406.5	2434.8	2463.1	2491.4	2519.6
62.5°	2147.2	2219.9	2292.7	2365.5	2394.2	2423.0	2451.7	2480.5	2509.2	2538.0	2566.7
65°	2172.9	2248.2	2323.6	2398.9	2427.9	2456.8	2485.8	2514.8	2543.7	2572.7	2601.7
67.5°	2189.6	2267.0	2344.4	2421.8	2450.8	2479.8	2508.7	2537.7	2566.7	2595.7	2624.6
70°	2191.0	2269.3	2347.7	2426.0	2455.0	2484.0	2512.9	2541.9	2570.9	2599.9	2628.8
72.5°	2173.6	2252.2	2330.7	2409.3	2437.8	2466.3	2494.8	2523.3	2551.9	2580.4	2608.9
75°	2136.1	2213.9	2291.8	2369.7	2397.7	2425.8	2453.8	2481.9	2509.9	2538.0	2566.0
77.5°	2079.7	2155.5	2231.3	2307.1	2334.2	2361.3	2388.5	2415.6	2442.7	2469.8	2497.0
80°	2007.4	2080.9	2154.3	2227.8	2254.0	2280.2	2306.4	2332.6	2358.8	2385.0	2411.2
82.5°	1930.2	2000.9	2071.6	2142.3	2167.6	2192.8	2218.1	2243.4	2268.6	2293.9	2319.2
85°	1848.2	1916.3	1984.5	2052.6	2077.4	2102.2	2127.0	2151.8	2176.6	2201.4	2226.2
87.5°	1768.9	1834.3	1899.6	1965.0	1989.1	2013.2	2037.3	2061.4	2085.5	2109.6	2133.7
90°	1693.8	1756.4	1819.0	1881.6	1905.0	1928.4	1951.8	1975.2	1998.6	2022.0	2045.4
92.5°	1630.5	1690.6	1750.6	1810.6	1833.1	1855.6	1878.1	1900.6	1923.0	1945.5	1968.0
95°	1571.5	1629.6	1687.8	1746.0	1766.9	1787.7	1808.6	1829.4	1850.3	1871.1	1892.0
97.5°	1511.6	1567.5	1623.3	1679.2	1699.4	1719.5	1739.7	1759.9	1780.0	1800.2	1820.4
100°	1458.8	1512.8	1566.8	1620.8	1640.0	1659.3	1678.5	1697.7	1717.0	1736.2	1755.4
102.5°	1404.6	1457.2	1509.8	1562.4	1581.2	1600.0	1618.7	1637.5	1656.3	1675.1	1693.8
105°	1351.0	1402.7	1454.4	1506.1	1524.2	1542.3	1560.3	1578.4	1596.5	1614.6	1632.6
107.5°	1294.7	1345.0	1395.3	1445.6	1463.7	1481.8	1499.8	1517.9	1536.0	1554.1	1572.1
110°	1238.4	1287.3	1336.2	1385.1	1402.9	1420.8	1438.6	1456.5	1474.3	1492.2	1510.0



TEST NUMBER: P201407

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1179.3	1226.3	1273.4	1320.4	1337.8	1355.2	1372.6	1390.0	1407.3	1424.7	1442.1
115°	1117.4	1162.8	1208.3	1253.7	1270.4	1287.1	1303.8	1320.5	1337.1	1353.8	1370.5
117.5°	1056.2	1099.8	1143.3	1186.9	1202.9	1218.9	1234.9	1250.9	1266.9	1282.9	1298.9
120°	992.9	1034.7	1076.4	1118.1	1133.6	1149.2	1164.7	1180.2	1195.8	1211.3	1226.8
122.5°	926.9	967.0	1007.1	1047.2	1061.6	1075.9	1090.3	1104.7	1119.0	1133.4	1147.8
125°	861.5	900.4	939.4	978.3	992.9	1007.5	1022.1	1036.7	1051.3	1065.9	1080.5
127.5°	792.7	830.9	869.2	907.4	921.3	935.2	949.1	963.0	977.0	990.9	1004.8
130°	716.2	754.9	793.6	832.3	845.0	857.8	870.5	883.3	896.0	908.8	921.5
132.5°	644.6	682.8	721.1	759.3	771.1	782.9	794.8	806.6	818.4	830.2	842.1
135°	571.5	608.4	645.2	682.1	694.2	706.2	718.3	730.3	742.4	754.4	766.5
137.5°	497.2	531.0	564.9	598.7	610.7	622.8	634.8	646.9	658.9	671.0	683.0
140°	413.8	442.0	470.3	498.6	512.3	525.9	539.6	553.3	566.9	580.6	594.3
142.5°	349.1	373.9	398.7	423.5	437.6	451.8	465.9	480.0	494.2	508.3	522.4
145°	285.1	305.5	325.9	346.3	360.0	373.6	387.3	401.0	414.6	428.3	442.0
147.5°	229.4	246.1	262.8	279.5	292.9	306.4	319.8	333.3	346.7	360.2	373.6
150°	177.3	190.5	203.7	216.9	229.9	242.9	255.9	268.9	281.8	294.8	307.8
152.5°	134.9	145.6	156.2	166.9	178.7	190.5	202.4	214.2	226.0	237.8	249.7
155°	98.1	106.4	114.8	123.1	133.5	143.9	154.4	164.8	175.2	185.6	196.1
157.5°	65.3	71.4	77.4	83.4	92.4	101.5	110.5	119.6	128.6	137.7	146.7
160°	39.0	42.7	46.4	50.1	56.8	63.5	70.3	77.0	83.7	90.4	97.2
162.5°	19.4	21.3	23.1	25.0	29.2	33.4	37.5	41.7	45.9	50.1	54.2
165°	8.3	9.0	9.7	10.4	12.5	14.6	16.7	18.8	20.8	22.9	25.0
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: P201407

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1155.6	1155.6
2.5°	1177.7	1176.5
5°	1218.4	1218.2
7.5°	1263.2	1264.1
10°	1304.6	1305.8
12.5°	1359.8	1362.1
15°	1422.9	1426.8
17.5°	1484.8	1489.4
20°	1544.6	1549.9
22.5°	1604.1	1610.4
25°	1662.1	1668.8
27.5°	1713.5	1720.9
30°	1770.7	1779.3
32.5°	1829.8	1839.8
35°	1889.2	1900.3
37.5°	1949.9	1962.9
40°	2013.0	2027.6
42.5°	2075.7	2092.2
45°	2140.9	2159.0
47.5°	2211.6	2232.0
50°	2283.0	2305.0
52.5°	2353.9	2378.0
55°	2425.0	2451.0
57.5°	2490.7	2517.8
60°	2547.9	2576.2
62.5°	2595.5	2624.2
65°	2630.6	2659.6
67.5°	2653.6	2682.6
70°	2657.8	2686.8
72.5°	2637.4	2665.9
75°	2594.1	2622.1
77.5°	2524.1	2551.2
80°	2437.4	2463.6
82.5°	2344.4	2369.7
85°	2251.0	2275.8
87.5°	2157.8	2181.9
90°	2068.8	2092.2
92.5°	1990.5	2013.0
95°	1912.8	1933.7
97.5°	1840.5	1860.7
100°	1774.7	1793.9
102.5°	1712.6	1731.4
105°	1650.7	1668.8
107.5°	1590.2	1608.3
110°	1527.9	1545.7



TEST NUMBER: P201407

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1459.5	1476.9
115°	1387.2	1403.9
117.5°	1314.9	1330.9
120°	1242.4	1257.9
122.5°	1162.1	1176.5
125°	1095.1	1109.7
127.5°	1018.7	1032.6
130°	934.3	947.0
132.5°	853.9	865.7
135°	778.5	790.6
137.5°	695.1	707.1
140°	607.9	621.6
142.5°	536.6	550.7
145°	455.6	469.3
147.5°	387.1	400.5
150°	320.8	333.8
152.5°	261.5	273.3
155°	206.5	216.9
157.5°	155.8	164.8
160°	103.9	110.6
162.5°	58.4	62.6
165°	27.1	29.2
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)