

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: P201410

Luminaire Tested: **8LBLED-LD4-12-ASYMW-UNV-L850-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28228)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8LBLEDD4-12-ASYMW-UNV-L850-CD2-U
Description: 8 ft. Low Bay Linear, 8000 lm, Wht Asym lens, 5K
Light Source: (616) 5000K CCT, 80 CRI LEDS
2UT217098A8504C, 2UT217056A8504B
Ballast/Driver: OSRAM
(OT85W01250CC), (OT50W0800CC)

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12831.9 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 2.07 / 1.2 / 1.84
Luminous Opening: Rectangular w/ Sides (W: 8' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

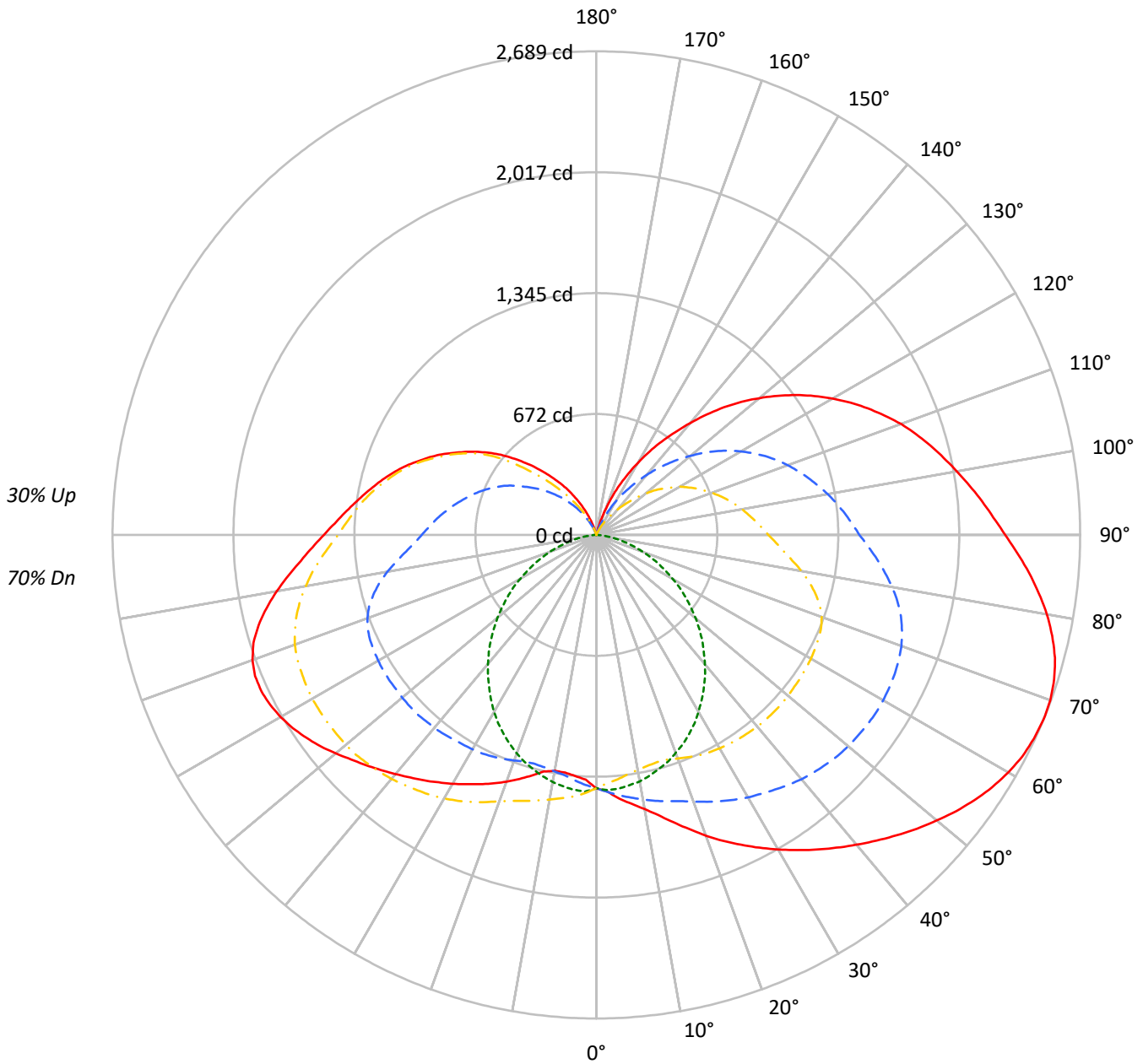
Input Watts (W): 96.83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLEDD4-12-ASYMW-UNV-L850-CD2-U

Luminous Intensity Polar Plot



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



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLED-LD4-12-ASYMW-UNV-L850-CD2-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	84	84	84	75	75	75	70
1	97	90	84	79	91	85	80	75	75	71	67	66	63	60	58	55	53	48
2	86	76	68	60	81	72	64	57	63	57	51	55	50	46	48	44	40	36
3	78	65	56	48	72	61	53	46	54	47	41	47	41	36	41	36	32	28
4	70	57	47	39	65	53	44	37	47	39	33	41	35	30	35	30	26	23
5	64	50	40	33	60	47	38	31	41	34	28	36	30	25	31	26	22	19
6	59	44	35	28	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	21	29	23	18	25	20	16	14
8	50	36	27	21	47	34	26	20	30	23	18	27	21	16	23	18	14	12
9	47	33	24	18	44	31	23	18	27	21	16	24	18	14	21	16	13	10
10	44	30	22	16	41	28	21	16	25	19	14	22	17	13	20	15	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11345	11345	11345	11345
5°	10741	11429	9813	11480
10°	10383	11331	8928	11365
15°	10345	11145	8662	11180
20°	10498	10950	8614	10986
25°	10687	10718	8599	10718
30°	10928	10401	8647	10420
35°	11222	10055	8757	10035
40°	11565	9662	8926	9640
45°	11982	9243	9188	9220
50°	12461	8750	9536	8724
55°	12981	8221	9944	8166
60°	13489	7559	10338	7526
65°	13932	6892	10671	6818
70°	14302	6055	10835	6009
75°	14544	5031	10715	4971
80°	14632	3712	10382	3797
85°	14644	1931	9999	2231



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLED-LD4-12-ASYMW-UNV-L850-CD2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	1.0
10°-20°	405.1	3.2
20°-30°	682.2	5.3
30°-40°	947.3	7.4
40°-50°	1185.8	9.2
50°-60°	1379.0	10.7
60°-70°	1494.5	11.6
70°-80°	1472.1	11.5
80°-90°	1304.4	10.2
90°-100°	1124.9	8.8
100°-110°	947.1	7.4
110°-120°	741.3	5.8
120°-130°	519.5	4.0
130°-140°	306.7	2.4
140°-150°	141.3	1.1
150°-160°	42.4	0.3
160°-170°	3.9	0.0
170°-180°	0.0	0.0
0°-30°	1221.7	9.5
0°-40°	2169.0	16.9
0°-60°	4733.8	36.9
0°-90°	9004.8	70.2
90°-120°	2813.3	21.9
90°-150°	3780.8	29.5
90°-180°	3827.0	29.8
0°-180°	12831.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1408	1408	1408	1408	1408	
5°	1473	1416	1346	1423	1473	143
15°	1654	1346	1385	1350	1654	473
25°	1900	1220	1529	1220	1900	883
35°	2136	1041	1667	1039	2136	1344
45°	2361	832	1811	830	2361	1831
55°	2568	607	1967	603	2568	2302
65°	2683	382	2055	378	2683	2656
75°	2639	177	1944	175	2639	2781
85°	2414	27	1648	31	2414	1998
90°	2272	0	1514	0	2272	1246
95°	2151	0	1404	0	2151	1733
105°	1921	0	1218	0	1921	2032
115°	1665	0	1022	0	1665	1652
125°	1356	0	805	2	1356	1217
135°	1003	0	572	2	1003	779
145°	634	0	352	2	634	403
155°	305	0	152	2	305	146
165°	48	0	8	2	48	19
175°	0	0	0	2	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLELD4-12-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1
2.5°	1428.9	1428.7	1428.5	1428.2	1428.0	1427.8	1427.6	1427.3	1427.1	1426.9	1427.4
5°	1472.8	1471.2	1469.6	1467.9	1466.3	1464.7	1463.1	1461.4	1459.8	1458.2	1457.7
7.5°	1508.2	1506.1	1504.0	1501.9	1499.8	1497.8	1495.7	1493.6	1491.5	1489.4	1487.6
10°	1547.9	1544.9	1541.9	1538.8	1535.8	1532.8	1529.8	1526.7	1523.7	1520.7	1517.7
12.5°	1595.8	1591.9	1587.9	1584.0	1580.1	1576.1	1572.2	1568.3	1564.3	1560.4	1555.3
15°	1654.2	1649.1	1644.0	1638.9	1633.8	1628.7	1623.6	1618.5	1613.4	1608.3	1600.0
17.5°	1714.7	1709.1	1703.6	1698.0	1692.5	1686.9	1681.4	1675.8	1670.3	1664.7	1652.2
20°	1779.4	1772.2	1765.0	1757.8	1750.6	1743.5	1736.3	1729.1	1721.9	1714.7	1699.4
22.5°	1842.0	1833.7	1825.3	1817.0	1808.6	1800.3	1791.9	1783.6	1775.2	1766.9	1749.1
25°	1900.4	1891.4	1882.3	1873.3	1864.2	1855.2	1846.1	1837.1	1828.0	1819.0	1798.4
27.5°	1960.9	1950.7	1940.5	1930.3	1920.1	1909.9	1899.7	1889.5	1879.3	1869.1	1845.9
30°	2019.3	2008.2	1997.1	1985.9	1974.8	1963.7	1952.6	1941.4	1930.3	1919.2	1893.2
32.5°	2077.7	2065.4	2053.1	2040.8	2028.5	2016.3	2004.0	1991.7	1979.4	1967.1	1938.1
35°	2136.1	2122.7	2109.2	2095.8	2082.3	2068.9	2055.4	2042.0	2028.5	2015.1	1983.3
37.5°	2192.4	2177.8	2163.2	2148.6	2134.0	2119.4	2104.8	2090.2	2075.6	2061.0	2026.7
40°	2248.8	2233.0	2217.3	2201.5	2185.7	2170.0	2154.2	2138.4	2122.7	2106.9	2069.8
42.5°	2305.1	2288.2	2271.3	2254.3	2237.4	2220.5	2203.6	2186.6	2169.7	2152.8	2112.5
45°	2361.4	2343.1	2324.8	2306.5	2288.2	2269.8	2251.5	2233.2	2214.9	2196.6	2153.0
47.5°	2417.7	2397.8	2377.8	2357.9	2338.0	2318.0	2298.1	2278.2	2258.2	2238.3	2191.7
50°	2469.9	2449.0	2428.2	2407.3	2386.4	2365.6	2344.7	2323.8	2303.0	2282.1	2231.6
52.5°	2522.0	2499.5	2477.0	2454.6	2432.1	2409.6	2387.1	2364.7	2342.2	2319.7	2265.7
55°	2567.9	2544.7	2521.5	2498.4	2475.2	2452.0	2428.8	2405.7	2382.5	2359.3	2301.4
57.5°	2609.7	2585.6	2561.5	2537.4	2513.3	2489.1	2465.0	2440.9	2416.8	2392.7	2331.5
60°	2643.0	2618.2	2593.4	2568.6	2543.8	2519.0	2494.2	2469.4	2444.6	2419.8	2355.4
62.5°	2668.1	2642.6	2617.1	2591.6	2566.1	2540.6	2515.1	2489.6	2464.1	2438.6	2371.6
65°	2682.7	2657.0	2631.2	2605.5	2579.8	2554.0	2528.3	2502.6	2476.8	2451.1	2382.0
67.5°	2688.9	2662.9	2637.0	2611.0	2585.1	2559.1	2533.2	2507.2	2481.3	2455.3	2384.6
70°	2684.8	2658.8	2632.9	2606.9	2580.9	2555.0	2529.0	2503.0	2477.1	2451.1	2379.2
72.5°	2668.1	2641.9	2615.7	2589.5	2563.3	2537.1	2510.9	2484.7	2458.5	2432.3	2360.0
75°	2638.9	2613.4	2587.9	2562.4	2536.9	2511.4	2485.9	2460.4	2434.9	2409.4	2336.4
77.5°	2595.1	2569.8	2544.6	2519.3	2494.0	2468.8	2443.5	2418.2	2393.0	2367.7	2295.1
80°	2542.9	2517.4	2491.9	2466.4	2440.9	2415.4	2389.9	2364.4	2338.9	2313.4	2241.8
82.5°	2480.3	2455.5	2430.7	2405.9	2381.1	2356.3	2331.5	2306.7	2281.9	2257.1	2186.2
85°	2413.6	2389.0	2364.4	2339.9	2315.3	2290.7	2266.1	2241.6	2217.0	2192.4	2122.9
87.5°	2342.6	2318.5	2294.4	2270.3	2246.2	2222.1	2198.0	2173.9	2149.8	2125.7	2057.6
90°	2271.7	2248.1	2224.4	2200.8	2177.1	2153.5	2129.8	2106.2	2082.5	2058.9	1992.6
92.5°	2209.1	2186.2	2163.2	2140.3	2117.3	2094.4	2071.4	2048.5	2025.5	2002.6	1938.2
95°	2150.7	2128.5	2106.2	2084.0	2061.7	2039.5	2017.2	1995.0	1972.7	1950.5	1887.7
97.5°	2092.3	2070.5	2048.7	2026.9	2005.1	1983.4	1961.6	1939.8	1918.0	1896.2	1835.0
100°	2033.9	2012.6	1991.3	1969.9	1948.6	1927.3	1906.0	1884.6	1863.3	1842.0	1782.4
102.5°	1977.6	1956.7	1935.9	1915.0	1894.1	1873.3	1852.4	1831.5	1810.7	1789.8	1731.2
105°	1921.3	1900.9	1880.5	1860.1	1839.7	1819.3	1798.9	1778.5	1758.1	1737.7	1680.2
107.5°	1862.8	1842.6	1822.5	1802.3	1782.2	1762.0	1741.9	1721.7	1701.6	1681.4	1625.3
110°	1802.4	1782.5	1762.5	1742.6	1722.7	1702.7	1682.8	1662.9	1642.9	1623.0	1568.5



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLED-LD4-12-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	1733.5	1714.0	1694.6	1675.1	1655.6	1636.2	1616.7	1597.2	1577.8	1558.3	1505.7
115°	1664.7	1645.7	1626.7	1607.7	1588.7	1569.6	1550.6	1531.6	1512.6	1493.6	1442.8
117.5°	1591.7	1573.4	1555.1	1536.8	1518.5	1500.1	1481.8	1463.5	1445.2	1426.9	1377.5
120°	1516.6	1498.7	1480.9	1463.0	1445.2	1427.3	1409.5	1391.6	1373.8	1355.9	1308.4
122.5°	1437.3	1420.1	1403.0	1385.8	1368.7	1351.5	1334.4	1317.2	1300.1	1282.9	1237.2
125°	1355.9	1339.4	1323.0	1306.5	1290.1	1273.6	1257.2	1240.7	1224.3	1207.8	1163.8
127.5°	1270.4	1254.9	1239.3	1223.8	1208.3	1192.7	1177.2	1161.7	1146.1	1130.6	1088.2
130°	1182.8	1168.2	1153.6	1139.0	1124.4	1109.8	1095.2	1080.6	1066.0	1051.4	1010.6
132.5°	1095.2	1081.3	1067.4	1053.5	1039.6	1025.6	1011.7	997.8	983.9	970.0	931.3
135°	1003.4	990.2	977.0	963.8	950.6	937.3	924.1	910.9	897.7	884.5	848.3
137.5°	907.4	895.1	882.8	870.6	858.3	846.0	833.7	821.5	809.2	796.9	763.5
140°	811.5	800.4	789.2	778.1	767.0	755.8	744.7	733.6	722.4	711.3	680.7
142.5°	719.7	710.0	700.2	690.5	680.8	671.0	661.3	651.6	641.8	632.1	603.4
145°	634.2	625.4	616.6	607.8	599.0	590.1	581.3	572.5	563.7	554.9	528.5
147.5°	550.7	542.1	533.5	525.0	516.4	507.8	499.2	490.7	482.1	473.5	450.3
150°	463.1	456.1	449.2	442.2	435.3	428.3	421.4	414.4	407.5	400.5	379.4
152.5°	381.7	375.7	369.7	363.6	357.6	351.6	345.6	339.5	333.5	327.5	309.2
155°	304.6	299.3	293.9	288.6	283.3	277.9	272.6	267.3	261.9	256.6	240.8
157.5°	229.5	225.1	220.7	216.3	211.9	207.4	203.0	198.6	194.2	189.8	176.8
160°	158.5	155.0	151.5	148.1	144.6	141.1	137.6	134.2	130.7	127.2	117.7
162.5°	96.0	93.7	91.4	89.0	86.7	84.4	82.1	79.7	77.4	75.1	68.8
165°	48.0	46.6	45.2	43.8	42.4	41.1	39.7	38.3	36.9	35.5	32.3
167.5°	14.6	14.1	13.7	13.2	12.7	12.3	11.8	11.3	10.9	10.4	9.2
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: P201410

CATALOG NUMBER: 8LBLEDD4-12-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°
0°	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1
2.5°	1427.8	1428.3	1428.7	1429.2	1429.6	1430.1	1430.5	1431.0	1428.7	1426.4	1424.1
5°	1457.3	1456.8	1456.3	1455.9	1455.4	1454.9	1454.5	1454.0	1450.1	1446.1	1442.2
7.5°	1485.7	1483.9	1482.0	1480.2	1478.3	1476.5	1474.6	1472.8	1467.2	1461.7	1456.1
10°	1514.7	1511.7	1508.7	1505.6	1502.6	1499.6	1496.6	1493.6	1485.7	1477.8	1470.0
12.5°	1550.2	1545.1	1540.0	1534.9	1529.8	1524.7	1519.6	1514.5	1504.1	1493.6	1483.2
15°	1591.6	1583.3	1575.0	1566.6	1558.3	1550.0	1541.6	1533.3	1520.1	1506.9	1493.6
17.5°	1639.7	1627.1	1614.6	1602.1	1589.6	1577.0	1564.5	1552.0	1535.8	1519.6	1503.3
20°	1684.1	1668.8	1653.5	1638.3	1623.0	1607.7	1592.4	1577.1	1556.7	1536.3	1515.9
22.5°	1731.2	1713.4	1695.5	1677.7	1659.8	1642.0	1624.1	1606.3	1581.0	1555.8	1530.5
25°	1777.8	1757.1	1736.5	1715.9	1695.3	1674.6	1654.0	1633.4	1603.5	1573.6	1543.7
27.5°	1822.7	1799.6	1776.4	1753.2	1730.0	1706.9	1683.7	1660.5	1625.7	1591.0	1556.2
30°	1867.3	1841.3	1815.3	1789.4	1763.4	1737.4	1711.5	1685.5	1645.9	1606.2	1566.6
32.5°	1909.2	1880.2	1851.2	1822.3	1793.3	1764.3	1735.4	1706.4	1662.8	1619.2	1575.7
35°	1951.6	1919.8	1888.1	1856.3	1824.6	1792.8	1761.1	1729.3	1681.3	1633.3	1585.4
37.5°	1992.4	1958.1	1923.8	1889.5	1855.2	1820.9	1786.6	1752.3	1700.4	1648.5	1596.5
40°	2032.7	1995.6	1958.5	1921.5	1884.4	1847.3	1810.2	1773.1	1717.5	1661.9	1606.2
42.5°	2072.1	2031.8	1991.5	1951.1	1910.8	1870.5	1830.1	1789.8	1730.5	1671.1	1611.8
45°	2109.4	2065.9	2022.3	1978.7	1935.1	1891.6	1848.0	1804.4	1741.6	1678.8	1616.0
47.5°	2145.1	2098.5	2051.9	2005.4	1958.8	1912.2	1865.6	1819.0	1752.5	1686.0	1619.4
50°	2181.1	2130.5	2080.0	2029.5	1979.0	1928.4	1877.9	1827.4	1757.6	1687.9	1618.1
52.5°	2211.7	2157.7	2103.7	2049.6	1995.6	1941.6	1887.6	1833.6	1760.6	1687.6	1614.6
55°	2243.4	2185.5	2127.5	2069.6	2011.6	1953.7	1895.7	1837.8	1761.8	1685.8	1609.7
57.5°	2270.3	2209.1	2147.9	2086.8	2025.6	1964.4	1903.2	1842.0	1762.5	1683.0	1603.5
60°	2290.9	2226.5	2162.1	2097.6	2033.2	1968.8	1904.3	1839.9	1757.8	1675.8	1593.7
62.5°	2304.6	2237.6	2170.6	2103.7	2036.7	1969.7	1902.7	1835.7	1750.9	1666.0	1581.2
65°	2313.0	2243.9	2174.8	2105.8	2036.7	1967.6	1898.6	1829.5	1742.1	1654.7	1567.3
67.5°	2313.9	2243.2	2172.5	2101.8	2031.1	1960.4	1889.7	1819.0	1729.1	1639.2	1549.2
70°	2307.4	2235.5	2163.7	2091.8	2020.0	1948.1	1876.3	1804.4	1712.2	1619.9	1527.7
72.5°	2287.7	2215.4	2143.1	2070.7	1998.4	1926.1	1853.8	1781.5	1687.9	1594.2	1500.6
75°	2263.4	2190.4	2117.4	2044.3	1971.3	1898.3	1825.3	1752.3	1657.5	1562.7	1467.9
77.5°	2222.6	2150.0	2077.5	2004.9	1932.4	1859.8	1787.3	1714.7	1619.7	1524.7	1429.6
80°	2170.2	2098.5	2026.9	1955.3	1883.7	1812.0	1740.4	1668.8	1574.5	1480.1	1385.8
82.5°	2115.3	2044.3	1973.4	1902.5	1831.6	1760.6	1689.7	1618.8	1525.4	1432.0	1338.6
85°	2053.3	1983.8	1914.3	1844.7	1775.2	1705.7	1636.1	1566.6	1474.6	1382.6	1290.6
87.5°	1989.4	1921.3	1853.1	1785.0	1716.8	1648.7	1580.5	1512.4	1422.2	1332.1	1241.9
90°	1926.3	1860.0	1793.7	1727.5	1661.2	1594.9	1528.6	1462.3	1373.8	1285.2	1196.7
92.5°	1873.7	1809.3	1744.9	1680.4	1616.0	1551.6	1487.1	1422.7	1336.0	1249.3	1162.6
95°	1824.9	1762.0	1699.2	1636.4	1573.6	1510.7	1447.9	1385.1	1299.8	1214.5	1129.2
97.5°	1773.8	1712.6	1651.4	1590.3	1529.1	1467.9	1406.7	1345.5	1261.8	1178.1	1094.5
100°	1722.9	1663.3	1603.7	1544.2	1484.6	1425.0	1365.5	1305.9	1223.8	1141.8	1059.7
102.5°	1672.5	1613.9	1555.3	1496.6	1438.0	1379.4	1320.7	1262.1	1181.4	1100.8	1020.1
105°	1622.7	1565.2	1507.7	1450.3	1392.8	1335.3	1277.8	1220.3	1140.8	1061.3	981.8
107.5°	1569.2	1513.1	1457.0	1400.9	1344.8	1288.7	1232.6	1176.5	1098.6	1020.7	942.9
110°	1514.0	1459.6	1405.1	1350.6	1296.1	1241.7	1187.2	1132.7	1056.4	980.2	903.9



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLED-LD4-12-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°	1453.1	1400.4	1347.8	1295.2	1242.6	1189.9	1137.3	1084.7	1010.3	935.9	861.5
115°	1392.1	1341.3	1290.6	1239.8	1189.1	1138.3	1087.6	1036.8	964.2	891.7	819.1
117.5°	1328.1	1278.8	1229.4	1180.0	1130.6	1081.3	1031.9	982.5	912.3	842.1	771.8
120°	1260.9	1213.4	1165.9	1118.3	1070.8	1023.3	975.8	928.3	860.2	792.0	723.9
122.5°	1191.6	1145.9	1100.3	1054.6	1009.0	963.3	917.7	872.0	806.6	741.3	675.9
125°	1119.7	1075.7	1031.7	987.6	943.6	899.6	855.5	811.5	749.6	687.7	625.8
127.5°	1045.8	1003.4	961.0	918.5	876.1	833.7	791.3	748.9	690.5	632.1	573.7
130°	969.8	929.0	888.2	847.4	806.6	765.8	725.0	684.2	629.7	575.3	520.8
132.5°	892.6	853.9	815.2	776.4	737.7	699.0	660.3	621.6	570.8	520.1	469.3
135°	812.2	776.0	739.9	703.7	667.6	631.4	595.3	559.1	512.3	465.5	418.6
137.5°	730.1	696.8	663.4	630.0	596.6	563.3	529.9	496.5	453.6	410.7	367.9
140°	650.1	619.5	588.9	558.4	527.8	497.2	466.6	436.0	397.3	358.6	319.9
142.5°	574.6	545.9	517.1	488.4	459.6	430.9	402.1	373.4	339.1	304.8	270.5
145°	502.1	475.6	449.2	422.8	396.4	369.9	343.5	317.1	287.0	256.8	226.7
147.5°	427.1	404.0	380.8	357.6	334.4	311.3	288.1	264.9	238.7	212.5	186.3
150°	358.3	337.2	316.1	295.1	274.0	252.9	231.8	210.7	189.1	167.6	146.0
152.5°	290.9	272.6	254.3	235.9	217.6	199.3	181.0	162.7	145.5	128.4	111.2
155°	225.1	209.3	193.5	177.8	162.0	146.2	130.5	114.7	102.4	90.1	77.9
157.5°	163.8	150.9	137.9	124.9	111.9	99.0	86.0	73.0	64.9	56.8	48.7
160°	108.2	98.7	89.2	79.7	70.2	60.7	51.2	41.7	37.1	32.4	27.8
162.5°	62.6	56.3	50.1	43.8	37.6	31.3	25.1	18.8	16.7	14.6	12.5
165°	29.0	25.8	22.5	19.3	16.0	12.8	9.5	6.3	5.6	4.9	4.2
167.5°	8.1	6.9	5.8	4.6	3.5	2.3	1.2	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: P201410

CATALOG NUMBER: 8LBLELD4-12-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°	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1
2.5°	1421.8	1419.4	1417.1	1414.8	1412.5	1410.2	1411.4	1412.5	1413.7	1414.8	1416.0
5°	1438.2	1434.3	1430.3	1426.4	1422.4	1418.5	1418.3	1418.0	1417.8	1417.6	1417.3
7.5°	1450.5	1445.0	1439.4	1433.8	1428.3	1422.7	1420.6	1418.5	1416.4	1414.3	1412.3
10°	1462.1	1454.2	1446.3	1438.5	1430.6	1422.7	1419.2	1415.7	1412.3	1408.8	1405.3
12.5°	1472.8	1462.3	1451.9	1441.5	1431.0	1420.6	1415.0	1409.5	1403.9	1398.3	1392.8
15°	1480.4	1467.2	1454.0	1440.7	1427.5	1414.3	1406.7	1399.0	1391.4	1383.7	1376.1
17.5°	1487.1	1470.9	1454.7	1438.4	1422.2	1406.0	1396.7	1387.5	1378.2	1368.9	1359.7
20°	1495.5	1475.1	1454.7	1434.3	1413.9	1393.5	1381.9	1370.3	1358.7	1347.1	1335.6
22.5°	1505.2	1480.0	1454.7	1429.4	1404.2	1378.9	1365.5	1352.0	1338.6	1325.1	1311.7
25°	1513.8	1483.9	1454.0	1424.1	1394.2	1364.3	1348.3	1332.3	1316.3	1300.3	1284.3
27.5°	1521.4	1486.7	1451.9	1417.1	1382.4	1347.6	1329.1	1310.5	1292.0	1273.4	1254.9
30°	1527.0	1487.3	1447.7	1408.1	1368.4	1328.8	1307.2	1285.7	1264.1	1242.6	1221.0
32.5°	1532.1	1488.5	1444.9	1401.4	1357.8	1314.2	1289.2	1264.1	1239.1	1214.1	1189.0
35°	1537.4	1489.4	1441.4	1393.5	1345.5	1297.5	1269.0	1240.5	1212.0	1183.5	1154.9
37.5°	1544.6	1492.7	1440.8	1388.8	1336.9	1285.0	1252.3	1219.6	1187.0	1154.3	1121.6
40°	1550.6	1495.0	1439.4	1383.7	1328.1	1272.5	1235.4	1198.3	1161.2	1124.1	1087.1
42.5°	1552.5	1493.1	1433.8	1374.5	1315.1	1255.8	1214.5	1173.3	1132.0	1090.8	1049.5
45°	1553.2	1490.3	1427.5	1364.7	1301.9	1239.1	1193.9	1148.7	1103.5	1058.3	1013.1
47.5°	1552.9	1486.4	1419.9	1353.3	1286.8	1220.3	1170.9	1121.6	1072.2	1022.8	973.5
50°	1548.3	1478.6	1408.8	1339.0	1269.3	1199.5	1146.2	1092.9	1039.6	986.3	932.9
52.5°	1541.6	1468.5	1395.5	1322.5	1249.5	1176.5	1119.3	1062.0	1004.8	947.5	890.3
55°	1533.7	1457.7	1381.7	1305.6	1229.6	1153.6	1092.9	1032.1	971.4	910.7	849.9
57.5°	1524.0	1444.5	1365.0	1285.5	1206.0	1126.5	1062.5	998.5	934.6	870.6	806.6
60°	1511.7	1429.6	1347.6	1265.5	1183.5	1101.4	1033.5	965.6	897.7	829.8	761.8
62.5°	1496.4	1411.5	1326.7	1241.9	1157.0	1072.2	1001.3	930.4	859.4	788.5	717.6
65°	1479.9	1392.6	1305.2	1217.8	1130.4	1043.0	969.5	896.0	822.6	749.1	675.6
67.5°	1459.3	1369.4	1279.5	1189.5	1099.6	1009.7	933.9	858.1	782.3	706.5	630.7
70°	1435.4	1343.2	1250.9	1158.7	1066.4	974.2	896.6	818.9	741.3	663.6	586.0
72.5°	1406.9	1313.3	1219.6	1126.0	1032.3	938.7	859.4	780.2	700.9	621.6	542.4
75°	1373.1	1278.3	1183.5	1088.7	993.9	899.1	818.9	738.7	658.5	578.3	498.1
77.5°	1334.6	1239.6	1144.6	1049.5	954.5	859.5	778.6	697.7	616.8	535.9	455.0
80°	1291.5	1197.1	1102.8	1008.5	914.1	819.8	738.9	658.0	577.1	496.2	415.4
82.5°	1245.2	1151.7	1058.3	964.9	871.5	778.1	697.9	617.7	537.5	457.3	377.1
85°	1198.6	1106.5	1014.5	922.5	830.5	738.5	659.5	580.4	501.4	422.3	343.3
87.5°	1151.7	1061.6	971.4	881.2	791.1	700.9	623.7	546.5	469.4	392.2	315.0
90°	1108.2	1019.6	931.1	842.6	754.0	665.5	591.6	517.6	443.7	369.7	295.8
92.5°	1075.9	989.3	902.6	815.9	729.2	642.5	571.1	499.7	428.3	356.9	285.6
95°	1043.9	958.7	873.4	788.1	702.8	617.5	548.9	480.3	411.7	343.1	274.4
97.5°	1010.8	927.1	843.4	759.8	676.1	592.4	526.6	460.8	394.9	329.1	263.3
100°	977.7	895.6	813.6	731.5	649.5	567.4	504.4	441.3	378.3	315.2	252.2
102.5°	939.4	858.8	778.1	697.4	616.8	536.1	476.5	417.0	357.4	297.8	238.3
105°	902.3	822.8	743.3	663.8	584.3	504.8	448.7	392.6	336.5	280.4	224.4
107.5°	865.0	787.1	709.2	631.4	553.5	475.6	422.8	369.9	317.1	264.2	211.4
110°	827.7	751.4	675.2	598.9	522.7	446.4	396.8	347.2	297.6	248.0	198.4



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLED-LD4-12-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°	787.1	712.7	638.3	563.9	489.5	415.1	369.0	322.9	276.7	230.6	184.5
115°	746.6	674.0	601.5	528.9	456.4	383.8	341.2	298.5	255.9	213.2	170.6
117.5°	701.6	631.4	561.2	490.9	420.7	350.5	311.6	272.6	233.7	194.7	155.8
120°	655.7	587.6	519.4	451.3	383.1	315.0	280.0	245.0	210.0	175.0	140.0
122.5°	610.5	545.2	479.8	414.4	349.1	283.7	252.2	220.7	189.1	157.6	126.1
125°	563.9	502.1	440.2	378.3	316.4	254.5	226.2	197.9	169.7	141.4	113.1
127.5°	515.3	456.8	398.4	340.0	281.6	223.2	198.4	173.6	148.8	124.0	99.2
130°	466.3	411.9	357.4	302.9	248.5	194.0	172.4	150.9	129.3	107.8	86.2
132.5°	418.6	367.8	317.1	266.3	215.6	164.8	146.5	128.2	109.9	91.6	73.2
135°	371.8	325.0	278.2	231.3	184.5	137.7	122.4	107.1	91.8	76.5	61.2
137.5°	325.0	282.1	239.2	196.4	153.5	110.6	98.3	86.0	73.7	61.4	49.2
140°	281.2	242.4	203.7	165.0	126.3	87.6	77.9	68.1	58.4	48.7	38.9
142.5°	236.2	201.9	167.6	133.3	99.0	64.7	57.5	50.3	43.1	35.9	28.8
145°	196.6	166.4	136.3	106.2	76.0	45.9	40.8	35.7	30.6	25.5	20.4
147.5°	160.1	134.0	107.8	81.6	55.4	29.2	26.0	22.7	19.5	16.2	13.0
150°	124.5	102.9	81.4	59.8	38.3	16.7	14.8	13.0	11.1	9.3	7.4
152.5°	94.1	76.9	59.8	42.6	25.5	8.3	7.4	6.5	5.5	4.6	3.7
155°	65.6	53.3	41.0	28.8	16.5	4.2	3.7	3.3	2.8	2.3	1.9
157.5°	40.6	32.4	24.3	16.2	8.1	0.0	0.0	0.0	0.0	0.0	0.0
160°	23.2	18.5	13.9	9.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	10.4	8.4	6.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
165°	3.5	2.8	2.1	1.4	0.7	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: P201410

CATALOG NUMBER: 8LBLELD4-12-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°	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1
2.5°	1417.1	1418.3	1419.4	1420.6	1417.6	1414.6	1411.6	1408.6	1405.5	1402.5	1399.5
5°	1417.1	1416.9	1416.6	1416.4	1412.0	1407.6	1403.2	1398.8	1394.4	1390.0	1385.6
7.5°	1410.2	1408.1	1406.0	1403.9	1398.8	1393.7	1388.6	1383.5	1378.4	1373.3	1368.2
10°	1401.8	1398.4	1394.9	1391.4	1385.4	1379.4	1373.3	1367.3	1361.3	1355.3	1349.2
12.5°	1387.2	1381.6	1376.1	1370.5	1364.2	1358.0	1351.7	1345.5	1339.2	1333.0	1326.7
15°	1368.4	1360.8	1353.1	1345.5	1339.2	1333.0	1326.7	1320.5	1314.2	1308.0	1301.7
17.5°	1350.4	1341.1	1331.9	1322.6	1316.1	1309.6	1303.1	1296.6	1290.1	1283.6	1277.1
20°	1324.0	1312.4	1300.8	1289.2	1283.6	1278.1	1272.5	1266.9	1261.4	1255.8	1250.2
22.5°	1298.2	1284.8	1271.3	1257.9	1252.8	1247.7	1242.6	1237.5	1232.4	1227.3	1222.2
25°	1268.3	1252.3	1236.3	1220.3	1216.6	1212.9	1209.2	1205.5	1201.8	1198.1	1194.4
27.5°	1236.3	1217.8	1199.2	1180.7	1178.6	1176.5	1174.4	1172.3	1170.3	1168.2	1166.1
30°	1199.5	1177.9	1156.4	1134.8	1135.0	1135.3	1135.5	1135.7	1136.0	1136.2	1136.4
32.5°	1164.0	1139.0	1113.9	1088.9	1092.1	1095.4	1098.6	1101.9	1105.1	1108.4	1111.6
35°	1126.4	1097.9	1069.4	1040.9	1047.4	1053.9	1060.4	1066.9	1073.4	1079.9	1086.4
37.5°	1088.9	1056.3	1023.6	990.9	1000.9	1010.8	1020.8	1030.8	1040.7	1050.7	1060.7
40°	1050.0	1012.9	975.8	938.7	951.9	965.1	978.3	991.5	1004.8	1018.0	1031.2
42.5°	1008.3	967.0	925.8	884.5	901.2	917.9	934.6	951.3	967.9	984.6	1001.3
45°	967.9	922.7	877.5	832.3	852.0	871.7	891.4	911.1	930.9	950.6	970.3
47.5°	924.1	874.7	825.4	776.0	799.2	822.4	845.5	868.7	891.9	915.1	938.2
50°	879.6	826.3	773.0	719.7	746.4	773.0	799.7	826.3	853.0	879.6	906.3
52.5°	833.0	775.8	718.5	661.3	691.2	721.1	751.0	780.9	810.8	840.7	870.6
55°	789.2	728.5	667.7	607.0	639.9	672.8	705.8	738.7	771.6	804.5	837.5
57.5°	742.6	678.7	614.7	550.7	586.6	622.6	658.5	694.4	730.4	766.3	802.2
60°	693.9	626.0	558.1	490.2	529.6	569.0	608.4	647.8	687.3	726.7	766.1
62.5°	646.7	575.7	504.8	433.9	476.1	518.3	560.5	602.7	644.8	687.0	729.2
65°	602.1	528.7	455.2	381.7	426.2	470.7	515.2	559.7	604.3	648.8	693.3
67.5°	554.9	479.1	403.3	327.5	373.9	420.2	466.6	512.9	559.3	605.6	652.0
70°	508.3	430.7	353.0	275.4	323.6	371.8	420.0	468.2	516.5	564.7	612.9
72.5°	463.1	383.8	304.6	225.3	274.7	324.0	373.4	422.8	472.1	521.5	570.9
75°	417.9	337.7	257.5	177.3	227.6	277.9	328.2	378.5	428.8	479.1	529.4
77.5°	374.1	293.2	212.3	131.4	182.4	233.4	284.4	335.4	386.4	437.4	488.4
80°	334.5	253.6	172.7	91.8	142.8	193.8	244.8	295.8	346.7	397.7	448.7
82.5°	296.9	216.7	136.5	56.3	106.4	156.4	206.5	256.6	306.6	356.7	406.8
85°	264.2	185.2	106.1	27.1	76.2	125.4	174.5	223.7	272.8	322.0	371.1
87.5°	237.8	160.7	83.5	6.3	54.3	102.3	150.2	198.2	246.2	294.2	342.1
90°	221.8	147.9	73.9	0.0	45.9	91.8	137.7	183.6	229.4	275.3	321.2
92.5°	214.2	142.8	71.4	0.0	43.8	87.6	131.4	175.2	219.1	262.9	306.7
95°	205.8	137.2	68.6	0.0	41.7	83.4	125.2	166.9	208.6	250.3	292.1
97.5°	197.5	131.6	65.8	0.0	39.4	78.8	118.2	157.6	197.0	236.4	275.8
100°	189.1	126.1	63.0	0.0	37.1	74.2	111.3	148.4	185.4	222.5	259.6
102.5°	178.7	119.1	59.6	0.0	34.8	69.5	104.3	139.1	173.8	208.6	243.4
105°	168.3	112.2	56.1	0.0	32.4	64.9	97.3	129.8	162.2	194.7	227.1
107.5°	158.5	105.7	52.8	0.0	30.1	60.3	90.4	120.5	150.7	180.8	210.9
110°	148.8	99.2	49.6	0.0	27.6	55.2	82.7	110.3	137.9	165.5	193.0



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLED-LD4-12-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°	138.4	92.2	46.1	0.0	25.3	50.5	75.8	101.1	126.3	151.6	176.9
115°	127.9	85.3	42.6	0.0	22.7	45.4	68.1	90.8	113.6	136.3	159.0
117.5°	116.8	77.9	38.9	0.0	20.4	40.8	61.2	81.6	102.0	122.4	142.8
120°	105.0	70.0	35.0	0.0	18.1	36.2	54.2	72.3	90.4	108.5	126.5
122.5°	94.6	63.0	31.5	0.0	15.8	31.5	47.3	63.1	78.8	94.6	110.4
125°	84.8	56.6	28.3	0.0	13.4	26.9	40.3	53.8	67.2	80.7	94.1
127.5°	74.4	49.6	24.8	0.0	10.9	21.8	32.7	43.6	54.4	65.3	76.2
130°	64.7	43.1	21.6	0.0	8.6	17.2	25.7	34.3	42.9	51.5	60.0
132.5°	54.9	36.6	18.3	0.0	6.5	13.0	19.5	26.0	32.4	38.9	45.4
135°	45.9	30.6	15.3	0.0	4.6	9.3	13.9	18.5	23.2	27.8	32.4
137.5°	36.9	24.6	12.3	0.0	3.2	6.5	9.7	13.0	16.2	19.5	22.7
140°	29.2	19.5	9.7	0.0	1.9	3.7	5.6	7.4	9.3	11.1	13.0
142.5°	21.6	14.4	7.2	0.0	0.9	1.8	2.8	3.7	4.6	5.5	6.5
145°	15.3	10.2	5.1	0.0	0.5	0.9	1.4	1.9	2.3	2.8	3.3
147.5°	9.7	6.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	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: P201410

CATALOG NUMBER: 8LBLELD4-12-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°	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1
2.5°	1396.5	1393.5	1392.1	1390.7	1389.3	1387.9	1386.6	1385.2	1383.8	1382.4	1381.0
5°	1381.2	1376.8	1375.4	1374.0	1372.6	1371.2	1369.9	1368.5	1367.1	1365.7	1364.3
7.5°	1363.1	1358.0	1356.1	1354.3	1352.4	1350.6	1348.7	1346.9	1345.0	1343.2	1341.3
10°	1343.2	1337.2	1336.0	1334.9	1333.7	1332.5	1331.4	1330.2	1329.0	1327.9	1326.7
12.5°	1320.5	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2
15°	1295.5	1289.2	1291.3	1293.4	1295.5	1297.6	1299.6	1301.7	1303.8	1305.9	1308.0
17.5°	1270.6	1264.1	1269.2	1274.3	1279.4	1284.5	1289.6	1294.7	1299.8	1304.9	1310.0
20°	1244.7	1239.1	1248.4	1257.7	1266.9	1276.2	1285.5	1294.8	1304.0	1313.3	1322.6
22.5°	1217.1	1212.0	1225.9	1239.8	1253.7	1267.6	1281.6	1295.5	1309.4	1323.3	1337.2
25°	1190.7	1187.0	1205.3	1223.6	1241.9	1260.2	1278.6	1296.9	1315.2	1333.5	1351.8
27.5°	1164.0	1161.9	1184.2	1206.4	1228.7	1250.9	1273.2	1295.4	1317.7	1339.9	1362.2
30°	1136.7	1136.9	1162.9	1188.8	1214.8	1240.7	1266.7	1292.6	1318.6	1344.5	1370.5
32.5°	1114.9	1118.1	1146.8	1175.6	1204.3	1233.1	1261.8	1290.6	1319.3	1348.1	1376.8
35°	1092.9	1099.4	1130.9	1162.4	1194.0	1225.5	1257.0	1288.5	1320.1	1351.6	1383.1
37.5°	1070.6	1080.6	1114.7	1148.7	1182.8	1216.9	1250.9	1285.0	1319.1	1353.1	1387.2
40°	1044.4	1057.6	1094.7	1131.8	1168.9	1206.0	1243.0	1280.1	1317.2	1354.3	1391.4
42.5°	1018.0	1034.7	1074.6	1114.4	1154.3	1194.2	1234.0	1273.9	1313.8	1353.6	1393.5
45°	990.0	1009.7	1052.3	1095.0	1137.6	1180.3	1222.9	1265.6	1308.2	1350.9	1393.5
47.5°	961.4	984.6	1030.0	1075.5	1120.9	1166.3	1211.8	1257.2	1302.6	1348.1	1393.5
50°	932.9	959.6	1007.6	1055.6	1103.5	1151.5	1199.5	1247.5	1295.4	1343.4	1391.4
52.5°	900.5	930.4	981.2	1031.9	1082.7	1133.4	1184.2	1234.9	1285.7	1336.4	1387.2
55°	870.4	903.3	956.8	1010.4	1063.9	1117.4	1171.0	1224.5	1278.0	1331.6	1385.1
57.5°	838.2	874.1	930.4	986.7	1043.1	1099.4	1155.7	1212.0	1268.4	1324.7	1381.0
60°	805.5	844.9	904.0	963.1	1022.2	1081.3	1140.4	1199.5	1258.6	1317.7	1376.8
62.5°	771.4	813.6	875.5	937.4	999.2	1061.1	1123.0	1184.9	1246.7	1308.6	1370.5
65°	737.8	782.3	846.7	911.2	975.6	1040.0	1104.5	1168.9	1233.3	1297.8	1362.2
67.5°	698.3	744.7	812.2	879.6	947.1	1014.5	1082.0	1149.4	1216.9	1284.3	1351.8
70°	661.1	709.3	778.6	847.9	917.2	986.5	1055.8	1125.1	1194.4	1263.7	1333.0
72.5°	620.2	669.6	739.8	810.1	880.3	950.5	1020.8	1091.0	1161.2	1231.5	1301.7
75°	579.7	630.0	700.0	770.0	840.0	910.0	980.0	1050.0	1120.0	1190.0	1260.0
77.5°	539.4	590.4	659.5	728.5	797.6	866.7	935.7	1004.8	1073.9	1142.9	1212.0
80°	499.7	550.7	618.2	685.6	753.1	820.5	888.0	955.4	1022.9	1090.3	1157.8
82.5°	456.8	506.9	572.7	638.6	704.4	770.2	836.1	901.9	967.7	1033.6	1099.4
85°	420.3	469.4	533.4	597.3	661.3	725.3	789.2	853.2	917.2	981.1	1045.1
87.5°	390.1	438.1	500.4	562.8	625.1	687.5	749.8	812.2	874.5	936.9	999.2
90°	367.1	413.0	473.3	533.5	593.8	654.1	714.3	774.6	834.9	895.1	955.4
92.5°	350.5	394.3	452.7	511.1	569.5	627.9	686.4	744.8	803.2	861.6	920.0
95°	333.8	375.5	432.3	489.1	545.9	602.7	659.4	716.2	773.0	829.8	886.6
97.5°	315.2	354.6	410.0	465.4	520.8	576.2	631.6	687.0	742.4	797.8	853.2
100°	296.7	333.8	388.0	442.3	496.5	550.7	605.0	659.2	713.4	767.7	821.9
102.5°	278.1	312.9	365.7	418.6	471.4	524.3	577.1	630.0	682.8	735.7	788.5
105°	259.6	292.0	343.5	394.9	446.4	497.9	549.3	600.8	652.3	703.7	755.2
107.5°	241.1	271.2	321.0	370.9	420.7	470.5	520.4	570.2	620.0	669.9	719.7
110°	220.6	248.2	296.6	345.1	393.5	442.0	490.4	538.9	587.3	635.8	684.2



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLED-LD4-12-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°	202.1	227.4	274.0	320.6	367.2	413.8	460.3	506.9	553.5	600.1	646.7
115°	181.7	204.4	249.6	294.8	340.0	385.2	430.4	475.6	520.8	566.0	611.2
117.5°	163.2	183.6	226.7	269.8	312.9	356.0	399.2	442.3	485.4	528.5	571.6
120°	144.6	162.7	204.2	245.7	287.2	328.7	370.1	411.6	453.1	494.6	536.1
122.5°	126.1	141.9	180.6	219.3	258.0	296.7	335.4	374.1	412.8	451.5	490.2
125°	107.6	121.0	157.4	193.8	230.2	266.6	302.9	339.3	375.7	412.1	448.5
127.5°	87.1	98.0	132.3	166.6	200.9	235.2	269.6	303.9	338.2	372.5	406.8
130°	68.6	77.2	108.3	139.3	170.4	201.4	232.5	263.5	294.6	325.6	356.7
132.5°	51.9	58.4	86.4	114.5	142.5	170.6	198.6	226.7	254.7	282.8	310.8
135°	37.1	41.7	66.5	91.3	116.1	140.9	165.7	190.5	215.3	240.1	264.9
137.5°	26.0	29.2	50.8	72.3	93.9	115.4	137.0	158.5	180.1	201.6	223.2
140°	14.8	16.7	35.5	54.3	73.0	91.8	110.6	129.4	148.1	166.9	185.7
142.5°	7.4	8.3	24.1	39.8	55.6	71.4	87.1	102.9	118.7	134.4	150.2
145°	3.7	4.2	16.7	29.2	41.7	54.2	66.8	79.3	91.8	104.3	116.8
147.5°	0.0	0.0	10.0	19.9	29.9	39.9	49.8	59.8	69.8	79.7	89.7
150°	0.0	0.0	7.0	13.9	20.9	27.8	34.8	41.7	48.7	55.6	62.6
152.5°	0.0	0.0	4.4	8.8	13.2	17.6	22.0	26.4	30.8	35.2	39.6
155°	0.0	0.0	2.3	4.6	7.0	9.3	11.6	13.9	16.3	18.6	20.9
157.5°	0.0	0.0	0.9	1.8	2.8	3.7	4.6	5.5	6.5	7.4	8.3
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: P201410

CATALOG NUMBER: 8LBLEDD4-12-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°	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1
2.5°	1380.1	1379.1	1378.2	1377.3	1376.3	1375.4	1374.5	1373.5	1372.6	1371.4	1370.3
5°	1362.7	1361.1	1359.4	1357.8	1356.2	1354.6	1352.9	1351.3	1349.7	1349.2	1348.8
7.5°	1340.6	1339.9	1339.2	1338.5	1337.9	1337.2	1336.5	1335.8	1335.1	1334.9	1334.6
10°	1327.2	1327.6	1328.1	1328.6	1329.0	1329.5	1330.0	1330.4	1330.9	1330.9	1330.9
12.5°	1316.8	1319.3	1321.9	1324.4	1327.0	1329.5	1332.1	1334.6	1337.2	1338.4	1339.5
15°	1314.0	1320.0	1326.1	1332.1	1338.1	1344.1	1350.2	1356.2	1362.2	1364.7	1367.3
17.5°	1319.5	1329.0	1338.5	1348.0	1357.6	1367.1	1376.6	1386.1	1395.6	1398.6	1401.6
20°	1334.2	1345.8	1357.4	1369.0	1380.5	1392.1	1403.7	1415.3	1426.9	1430.6	1434.3
22.5°	1350.2	1363.2	1376.1	1389.1	1402.1	1415.1	1428.0	1441.0	1454.0	1458.6	1463.3
25°	1366.4	1381.0	1395.6	1410.2	1424.8	1439.4	1454.0	1468.6	1483.2	1488.3	1493.4
27.5°	1378.4	1394.6	1410.9	1427.1	1443.3	1459.5	1475.8	1492.0	1508.2	1514.2	1520.3
30°	1388.6	1406.7	1424.8	1442.9	1460.9	1479.0	1497.1	1515.2	1533.3	1540.5	1547.7
32.5°	1397.2	1417.6	1438.0	1458.4	1478.8	1499.2	1519.6	1540.0	1560.4	1568.3	1576.2
35°	1405.6	1428.1	1450.5	1473.0	1495.5	1518.0	1540.4	1562.9	1585.4	1594.4	1603.5
37.5°	1411.5	1435.9	1460.2	1484.6	1508.9	1533.3	1557.6	1582.0	1606.3	1616.7	1627.1
40°	1418.1	1444.7	1471.4	1498.0	1524.7	1551.3	1578.0	1604.6	1631.3	1642.9	1654.5
42.5°	1422.7	1451.9	1481.1	1510.3	1539.5	1568.7	1597.9	1627.1	1656.3	1669.3	1682.3
45°	1425.7	1457.9	1490.1	1522.3	1554.6	1586.8	1619.0	1651.2	1683.4	1697.5	1711.7
47.5°	1428.5	1463.5	1498.5	1533.5	1568.5	1603.5	1638.5	1673.5	1708.5	1724.0	1739.5
50°	1429.6	1467.9	1506.1	1544.4	1582.6	1620.9	1659.1	1697.4	1735.6	1752.8	1769.9
52.5°	1428.9	1470.6	1512.4	1554.1	1595.8	1637.5	1679.3	1721.0	1762.7	1781.5	1800.3
55°	1429.8	1474.6	1519.3	1564.0	1608.8	1653.5	1698.2	1743.0	1787.7	1807.6	1827.6
57.5°	1429.2	1477.4	1525.6	1573.8	1622.1	1670.3	1718.5	1766.7	1814.9	1835.5	1856.1
60°	1427.8	1478.8	1529.8	1580.8	1631.7	1682.7	1733.7	1784.7	1835.7	1856.8	1877.9
62.5°	1423.8	1477.1	1530.4	1583.7	1637.1	1690.4	1743.7	1797.0	1850.3	1871.9	1893.4
65°	1417.4	1472.5	1527.7	1582.9	1638.0	1693.2	1748.4	1803.5	1858.7	1880.5	1902.3
67.5°	1407.9	1464.0	1520.1	1576.2	1632.2	1688.3	1744.4	1800.5	1856.6	1878.4	1900.2
70°	1389.6	1446.1	1502.7	1559.2	1615.8	1672.3	1728.9	1785.4	1842.0	1863.3	1884.6
72.5°	1358.0	1414.3	1470.7	1527.0	1583.3	1639.6	1696.0	1752.3	1808.6	1829.7	1850.8
75°	1315.6	1371.2	1426.9	1482.5	1538.1	1593.7	1649.4	1705.0	1760.6	1781.0	1801.4
77.5°	1266.2	1320.5	1374.7	1428.9	1483.2	1537.4	1591.6	1645.9	1700.1	1719.8	1739.5
80°	1210.2	1262.6	1314.9	1367.3	1419.7	1472.1	1524.4	1576.8	1629.2	1648.7	1668.1
82.5°	1149.9	1200.4	1251.0	1301.5	1352.0	1402.5	1453.1	1503.6	1554.1	1573.1	1592.1
85°	1093.8	1142.5	1191.1	1239.8	1288.5	1337.2	1385.8	1434.5	1483.2	1501.5	1519.8
87.5°	1045.3	1091.4	1137.6	1183.7	1229.8	1275.9	1322.1	1368.2	1414.3	1432.6	1450.9
90°	1000.1	1044.9	1089.6	1134.3	1179.1	1223.8	1268.5	1313.3	1358.0	1375.4	1392.8
92.5°	963.1	1006.2	1049.3	1092.4	1135.6	1178.7	1221.8	1264.9	1308.0	1324.5	1340.9
95°	928.1	969.6	1011.1	1052.6	1094.0	1135.5	1177.0	1218.5	1260.0	1276.0	1292.0
97.5°	893.5	933.9	974.2	1014.5	1054.9	1095.2	1135.5	1175.9	1216.2	1231.5	1246.8
100°	861.1	900.2	939.4	978.6	1017.7	1056.9	1096.1	1135.2	1174.4	1189.2	1204.1
102.5°	826.7	865.0	903.2	941.5	979.7	1018.0	1056.2	1094.5	1132.7	1147.1	1161.5
105°	792.5	829.8	867.1	904.4	941.8	979.1	1016.4	1053.7	1091.0	1105.1	1119.3
107.5°	756.1	792.5	828.9	865.3	901.6	938.0	974.4	1010.8	1047.2	1061.1	1075.0
110°	719.4	754.7	789.9	825.1	860.4	895.6	930.8	966.1	1001.3	1015.0	1028.7



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLED-LD4-12-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°	680.8	714.8	748.9	783.0	817.0	851.1	885.2	919.2	953.3	966.5	979.7
115°	643.9	676.6	709.2	741.9	774.6	807.3	839.9	872.6	905.3	918.3	931.3
117.5°	603.4	635.1	666.9	698.6	730.4	762.1	793.9	825.6	857.4	869.9	882.4
120°	566.5	596.8	627.2	657.6	687.9	718.3	748.7	779.0	809.4	820.8	832.1
122.5°	519.9	549.5	579.2	608.9	638.5	668.2	697.9	727.5	757.2	768.6	779.9
125°	477.2	506.0	534.7	563.5	592.2	621.0	649.7	678.5	707.2	718.1	729.0
127.5°	434.1	461.5	488.8	516.2	543.5	570.9	598.2	625.6	652.9	663.6	674.2
130°	383.8	410.9	438.1	465.2	492.3	519.4	546.6	573.7	600.8	611.0	621.2
132.5°	337.0	363.2	389.4	415.6	441.7	467.9	494.1	520.3	546.5	556.0	565.5
135°	289.7	314.5	339.3	364.1	388.9	413.7	438.5	463.3	488.1	497.4	506.7
137.5°	246.4	269.6	292.7	315.9	339.1	362.3	385.4	408.6	431.8	441.1	450.4
140°	206.6	227.4	248.3	269.1	290.0	310.8	331.7	352.5	373.4	382.7	391.9
142.5°	168.5	186.8	205.1	223.4	241.8	260.1	278.4	296.7	315.0	324.5	334.0
145°	132.8	148.8	164.8	180.8	196.8	212.8	228.8	244.8	260.8	271.0	281.2
147.5°	103.1	116.6	130.0	143.5	156.9	170.4	183.8	197.3	210.7	220.7	230.6
150°	73.7	84.8	96.0	107.1	118.2	129.3	140.5	151.6	162.7	172.2	181.7
152.5°	48.6	57.7	66.7	75.8	84.8	93.9	102.9	112.0	121.0	129.8	138.6
155°	27.8	34.8	41.7	48.7	55.6	62.6	69.5	76.5	83.4	91.1	98.7
157.5°	13.2	18.1	22.9	27.8	32.7	37.6	42.4	47.3	52.2	58.5	64.7
160°	2.8	5.6	8.3	11.1	13.9	16.7	19.4	22.2	25.0	29.6	34.3
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: P201410

CATALOG NUMBER: 8LBLELD4-12-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°	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1
2.5°	1369.1	1368.0	1366.8	1365.7	1364.5	1363.4	1362.2	1363.1	1364.0	1365.0	1365.9
5°	1348.3	1347.8	1347.4	1346.9	1346.4	1346.0	1345.5	1345.7	1346.0	1346.2	1346.4
7.5°	1334.4	1334.2	1333.9	1333.7	1333.5	1333.2	1333.0	1333.0	1333.0	1333.0	1333.0
10°	1330.9	1330.9	1330.9	1330.9	1330.9	1330.9	1330.9	1330.2	1329.5	1328.8	1328.1
12.5°	1340.7	1341.8	1343.0	1344.1	1345.3	1346.4	1347.6	1345.7	1343.9	1342.0	1340.2
15°	1369.8	1372.4	1374.9	1377.5	1380.0	1382.6	1385.1	1382.3	1379.5	1376.8	1374.0
17.5°	1404.6	1407.6	1410.7	1413.7	1416.7	1419.7	1422.7	1419.0	1415.3	1411.6	1407.9
20°	1438.0	1441.7	1445.4	1449.1	1452.8	1456.5	1460.2	1455.8	1451.4	1447.0	1442.6
22.5°	1467.9	1472.5	1477.2	1481.8	1486.4	1491.1	1495.7	1490.1	1484.6	1479.0	1473.4
25°	1498.5	1503.6	1508.7	1513.8	1518.9	1524.0	1529.1	1523.1	1517.0	1511.0	1505.0
27.5°	1526.3	1532.3	1538.4	1544.4	1550.4	1556.5	1562.5	1555.8	1549.1	1542.3	1535.6
30°	1554.8	1562.0	1569.2	1576.4	1583.5	1590.7	1597.9	1590.0	1582.1	1574.3	1566.4
32.5°	1584.0	1591.9	1599.8	1607.7	1615.5	1623.4	1631.3	1622.7	1614.1	1605.6	1597.0
35°	1612.5	1621.6	1630.6	1639.7	1648.7	1657.8	1666.8	1657.3	1647.8	1638.3	1628.8
37.5°	1637.6	1648.0	1658.4	1668.8	1679.3	1689.7	1700.1	1689.7	1679.3	1668.8	1658.4
40°	1666.1	1677.7	1689.2	1700.8	1712.4	1724.0	1735.6	1724.0	1712.4	1700.8	1689.2
42.5°	1695.2	1708.2	1721.2	1734.2	1747.1	1760.1	1773.1	1760.6	1748.1	1735.6	1723.1
45°	1725.8	1740.0	1754.1	1768.3	1782.4	1796.6	1810.7	1797.0	1783.3	1769.7	1756.0
47.5°	1755.1	1770.6	1786.1	1801.6	1817.2	1832.7	1848.2	1833.6	1819.0	1804.4	1789.8
50°	1787.1	1804.2	1821.4	1838.5	1855.7	1872.8	1890.0	1874.0	1858.0	1842.0	1826.0
52.5°	1819.0	1837.8	1856.6	1875.4	1894.1	1912.9	1931.7	1914.3	1896.9	1879.5	1862.1
55°	1847.5	1867.4	1887.4	1907.3	1927.2	1947.2	1967.1	1949.3	1931.4	1913.6	1895.7
57.5°	1876.8	1897.4	1918.0	1938.6	1959.3	1979.9	2000.5	1982.0	1963.4	1944.9	1926.3
60°	1899.0	1920.1	1941.2	1962.3	1983.4	2004.5	2025.6	2006.8	1988.0	1969.3	1950.5
62.5°	1915.0	1936.5	1958.1	1979.6	2001.2	2022.7	2044.3	2024.8	2005.4	1985.9	1966.4
65°	1924.1	1945.9	1967.6	1989.4	2011.2	2033.0	2054.8	2035.6	2016.3	1997.1	1977.8
67.5°	1922.0	1943.8	1965.5	1987.3	2009.1	2030.9	2052.7	2033.2	2013.7	1994.3	1974.8
70°	1906.0	1927.3	1948.6	1969.9	1991.3	2012.6	2033.9	2014.7	1995.4	1976.2	1957.0
72.5°	1871.9	1893.0	1914.0	1935.1	1956.2	1977.3	1998.4	1979.4	1960.4	1941.4	1922.4
75°	1821.8	1842.2	1862.6	1883.0	1903.4	1923.8	1944.2	1925.9	1907.6	1889.3	1871.0
77.5°	1759.2	1778.9	1798.6	1818.3	1838.0	1857.7	1877.4	1859.3	1841.2	1823.2	1805.1
80°	1687.6	1707.1	1726.5	1746.0	1765.5	1784.9	1804.4	1786.8	1769.2	1751.6	1734.0
82.5°	1611.1	1630.1	1649.2	1668.2	1687.2	1706.2	1725.2	1707.8	1690.4	1673.0	1655.6
85°	1538.1	1556.4	1574.8	1593.1	1611.4	1629.7	1648.0	1631.1	1614.2	1597.2	1580.3
87.5°	1469.2	1487.5	1505.9	1524.2	1542.5	1560.8	1579.1	1562.2	1545.3	1528.4	1511.5
90°	1410.2	1427.6	1444.9	1462.3	1479.7	1497.1	1514.5	1498.3	1482.1	1465.8	1449.6
92.5°	1357.4	1373.8	1390.3	1406.7	1423.2	1439.6	1456.1	1440.8	1425.5	1410.2	1394.9
95°	1308.0	1324.0	1339.9	1355.9	1371.9	1387.9	1403.9	1389.3	1374.7	1360.1	1345.5
97.5°	1262.1	1277.4	1292.6	1307.9	1323.2	1338.5	1353.8	1339.9	1326.0	1312.1	1298.2
100°	1218.9	1233.8	1248.6	1263.5	1278.3	1293.2	1308.0	1294.3	1280.6	1267.0	1253.3
102.5°	1175.8	1190.2	1204.6	1219.0	1233.3	1247.7	1262.1	1248.7	1235.2	1221.8	1208.3
105°	1133.4	1147.6	1161.7	1175.9	1190.0	1204.2	1218.3	1205.1	1191.9	1178.7	1165.5
107.5°	1088.9	1102.8	1116.8	1130.7	1144.6	1158.5	1172.4	1159.4	1146.4	1133.4	1120.4
110°	1042.3	1056.0	1069.7	1083.4	1097.0	1110.7	1124.4	1111.7	1098.9	1086.2	1073.4



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLED-LD4-12-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°	992.9	1006.1	1019.4	1032.6	1045.8	1059.0	1072.2	1059.9	1047.6	1035.4	1023.1
115°	944.3	957.3	970.2	983.2	996.2	1009.2	1022.2	1010.1	998.1	986.0	974.0
117.5°	894.9	907.4	920.0	932.5	945.0	957.5	970.0	958.4	946.8	935.2	923.6
120°	843.5	854.8	866.2	877.5	888.9	900.2	911.6	900.9	890.3	879.6	868.9
122.5°	791.3	802.7	814.0	825.4	836.8	848.1	859.5	849.3	839.1	828.9	818.7
125°	739.9	750.8	761.6	772.5	783.4	794.3	805.2	795.2	785.3	775.3	765.3
127.5°	684.9	695.6	706.2	716.9	727.6	738.2	748.9	739.6	730.4	721.1	711.8
130°	631.4	641.6	651.8	662.0	672.2	682.4	692.6	683.6	674.5	665.5	656.4
132.5°	575.0	584.5	594.1	603.6	613.1	622.6	632.1	623.8	615.4	607.1	598.7
135°	515.9	525.2	534.5	543.8	553.0	562.3	571.6	563.7	555.8	548.0	540.1
137.5°	459.6	468.9	478.2	487.5	496.7	506.0	515.3	507.9	500.5	493.0	485.6
140°	401.2	410.5	419.7	429.0	438.3	447.5	456.8	450.5	444.3	438.0	431.8
142.5°	343.5	353.0	362.5	372.0	381.5	391.0	400.5	394.9	389.4	383.8	378.3
145°	291.4	301.6	311.7	321.9	332.1	342.3	352.5	346.9	341.4	335.8	330.3
147.5°	240.6	250.6	260.5	270.5	280.5	290.4	300.4	295.3	290.2	285.1	280.0
150°	191.2	200.7	210.2	219.7	229.2	238.7	248.2	244.0	239.9	235.7	231.5
152.5°	147.4	156.2	165.1	173.9	182.7	191.5	200.3	196.4	192.4	188.5	184.5
155°	106.4	114.0	121.7	129.3	137.0	144.6	152.3	149.1	145.8	142.6	139.3
157.5°	71.0	77.2	83.5	89.7	96.0	102.2	108.5	105.7	102.9	100.1	97.3
160°	38.9	43.6	48.2	52.9	57.5	62.2	66.8	64.9	63.1	61.2	59.4
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	8.3	8.3	8.3	8.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLEDD4-12-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°	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1
2.5°	1366.8	1367.7	1368.7	1369.6	1370.5	1372.8	1375.1	1377.5	1379.8	1382.1	1384.4
5°	1346.7	1346.9	1347.1	1347.4	1347.6	1350.1	1352.7	1355.2	1357.8	1360.3	1362.9
7.5°	1333.0	1333.0	1333.0	1333.0	1333.0	1334.6	1336.2	1337.9	1339.5	1341.1	1342.7
10°	1327.4	1326.7	1326.0	1325.3	1324.6	1325.8	1326.9	1328.1	1329.3	1330.4	1331.6
12.5°	1338.3	1336.5	1334.6	1332.8	1330.9	1330.2	1329.5	1328.8	1328.1	1327.4	1326.7
15°	1371.2	1368.4	1365.7	1362.9	1360.1	1355.5	1350.8	1346.2	1341.6	1336.9	1332.3
17.5°	1404.1	1400.4	1396.7	1393.0	1389.3	1381.7	1374.0	1366.4	1358.7	1351.1	1343.4
20°	1438.2	1433.8	1429.4	1425.0	1420.6	1411.1	1401.6	1392.1	1382.6	1373.1	1363.6
22.5°	1467.9	1462.3	1456.7	1451.2	1445.6	1434.7	1423.8	1412.9	1402.0	1391.2	1380.3
25°	1498.9	1492.9	1486.9	1480.8	1474.8	1462.1	1449.3	1436.6	1423.8	1411.1	1398.3
27.5°	1528.9	1522.2	1515.4	1508.7	1502.0	1487.4	1472.8	1458.2	1443.6	1428.9	1414.3
30°	1558.5	1550.6	1542.8	1534.9	1527.0	1510.3	1493.6	1476.9	1460.2	1443.6	1426.9
32.5°	1588.4	1579.8	1571.3	1562.7	1554.1	1534.9	1515.6	1496.4	1477.2	1457.9	1438.7
35°	1619.2	1609.7	1600.2	1590.7	1581.2	1559.6	1538.1	1516.5	1495.0	1473.4	1451.9
37.5°	1648.0	1637.6	1627.1	1616.7	1606.3	1582.9	1559.5	1536.1	1512.7	1489.2	1465.8
40°	1677.7	1666.1	1654.5	1642.9	1631.3	1605.6	1579.8	1554.1	1528.4	1502.6	1476.9
42.5°	1710.5	1698.0	1685.5	1673.0	1660.5	1632.0	1603.5	1575.0	1546.5	1517.9	1489.4
45°	1742.3	1728.6	1715.0	1701.3	1687.6	1656.5	1625.5	1594.4	1563.4	1532.3	1501.3
47.5°	1775.2	1760.6	1746.0	1731.4	1716.8	1682.5	1648.2	1613.9	1579.6	1545.3	1511.0
50°	1810.0	1794.0	1778.0	1762.0	1746.0	1708.5	1670.9	1633.4	1595.8	1558.3	1520.7
52.5°	1844.8	1827.4	1810.0	1792.6	1775.2	1734.2	1693.2	1652.1	1611.1	1570.1	1529.1
55°	1877.9	1860.0	1842.2	1824.3	1806.5	1762.0	1717.5	1673.0	1628.5	1584.0	1539.5
57.5°	1907.8	1889.2	1870.7	1852.1	1833.6	1785.9	1738.1	1690.4	1642.6	1594.9	1547.1
60°	1931.7	1912.9	1894.2	1875.4	1856.6	1805.8	1755.1	1704.3	1653.5	1602.8	1552.0
62.5°	1947.0	1927.5	1908.0	1888.6	1869.1	1816.3	1763.4	1710.6	1657.7	1604.9	1552.0
65°	1958.6	1939.3	1920.1	1900.8	1881.6	1826.7	1771.7	1716.8	1661.9	1606.9	1552.0
67.5°	1955.3	1935.8	1916.4	1896.9	1877.4	1821.5	1765.7	1709.8	1654.0	1598.1	1542.3
70°	1937.7	1918.5	1899.3	1880.0	1860.8	1804.5	1748.1	1691.8	1635.5	1579.1	1522.8
72.5°	1903.4	1884.4	1865.4	1846.4	1827.4	1771.5	1715.7	1659.8	1603.9	1548.1	1492.2
75°	1852.6	1834.3	1816.0	1797.7	1779.4	1724.2	1669.1	1613.9	1558.7	1503.6	1448.4
77.5°	1787.0	1768.9	1750.9	1732.8	1714.7	1661.4	1608.1	1554.8	1501.5	1448.1	1394.8
80°	1716.3	1698.7	1681.1	1663.5	1645.9	1594.0	1542.1	1490.1	1438.2	1386.3	1334.4
82.5°	1638.3	1620.9	1603.5	1586.1	1568.7	1518.6	1468.6	1418.5	1368.4	1318.4	1268.3
85°	1563.4	1546.5	1529.5	1512.6	1495.7	1447.5	1399.3	1351.1	1302.9	1254.6	1206.4
87.5°	1494.5	1477.6	1460.7	1443.8	1426.9	1380.5	1334.2	1287.8	1241.5	1195.1	1148.8
90°	1433.4	1417.2	1400.9	1384.7	1368.5	1324.2	1279.9	1235.7	1191.4	1147.1	1102.8
92.5°	1379.6	1364.3	1349.0	1333.7	1318.4	1275.8	1233.1	1190.5	1147.8	1105.2	1062.5
95°	1330.9	1316.3	1301.7	1287.1	1272.5	1231.2	1190.0	1148.7	1107.5	1066.2	1025.0
97.5°	1284.3	1270.4	1256.5	1242.6	1228.7	1188.6	1148.5	1108.4	1068.3	1028.2	988.1
100°	1239.6	1225.9	1212.3	1198.6	1184.9	1145.7	1106.5	1067.4	1028.2	989.0	949.8
102.5°	1194.9	1181.4	1168.0	1154.5	1141.1	1103.1	1065.1	1027.1	989.1	951.0	913.0
105°	1152.2	1139.0	1125.8	1112.6	1099.4	1062.1	1024.8	987.4	950.1	912.8	875.5
107.5°	1107.5	1094.5	1081.5	1068.5	1055.5	1019.3	983.2	947.0	910.9	874.7	838.6
110°	1060.7	1047.9	1035.2	1022.4	1009.7	974.9	940.1	905.4	870.6	835.8	801.0



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLELD-4-12-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°	1010.8	998.5	986.3	974.0	961.7	928.3	894.9	861.6	828.2	794.8	761.4
115°	961.9	949.9	937.8	925.8	913.7	881.7	849.7	817.7	785.7	753.8	721.8
117.5°	912.1	900.5	888.9	877.3	865.7	834.9	804.1	773.2	742.4	711.6	680.8
120°	858.3	847.6	836.9	826.3	815.6	785.9	756.3	726.6	696.9	667.3	637.6
122.5°	808.5	798.3	788.1	777.9	767.7	738.3	708.8	679.4	649.9	620.5	591.0
125°	755.4	745.4	735.4	725.5	715.5	687.5	659.4	631.4	603.3	575.3	547.2
127.5°	702.6	693.3	684.0	674.8	665.5	638.6	611.7	584.8	557.9	531.1	504.2
130°	647.4	638.3	629.3	620.2	611.2	586.6	562.1	537.5	512.9	488.4	463.8
132.5°	590.4	582.0	573.7	565.3	557.0	533.8	510.6	487.5	464.3	441.1	417.9
135°	532.2	524.3	516.5	508.6	500.7	479.6	458.5	437.4	416.3	395.2	374.1
137.5°	478.2	470.8	463.3	455.9	448.5	429.3	410.0	390.8	371.6	352.3	333.1
140°	425.5	419.3	413.0	406.8	400.5	382.2	363.9	345.6	327.3	308.9	290.6
142.5°	372.7	367.2	361.6	356.1	350.5	334.0	317.6	301.1	284.6	268.2	251.7
145°	324.7	319.2	313.6	308.1	302.5	287.4	272.4	257.3	242.2	227.2	212.1
147.5°	274.9	269.8	264.7	259.6	254.5	241.1	227.6	214.2	200.7	187.3	173.8
150°	227.4	223.2	219.0	214.9	210.7	198.6	186.6	174.5	162.5	150.4	138.4
152.5°	180.6	176.6	172.7	168.7	164.8	154.6	144.4	134.2	124.0	113.8	103.6
155°	136.1	132.8	129.6	126.3	123.1	114.5	105.9	97.4	88.8	80.2	71.6
157.5°	94.6	91.8	89.0	86.2	83.4	77.1	70.9	64.6	58.4	52.1	45.9
160°	57.5	55.7	53.8	52.0	50.1	45.9	41.7	37.6	33.4	29.2	25.0
162.5°	26.6	25.7	24.8	23.8	22.9	21.1	19.2	17.4	15.5	13.7	11.8
165°	8.3	8.3	8.3	8.3	8.3	7.6	6.9	6.2	5.5	4.9	4.2
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



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLEDD4-12-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°	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1
2.5°	1386.8	1389.1	1391.4	1391.9	1392.3	1392.8	1393.3	1393.7	1394.2	1394.7	1395.1
5°	1365.4	1368.0	1370.5	1371.4	1372.4	1373.3	1374.2	1375.2	1376.1	1377.0	1378.0
7.5°	1344.4	1346.0	1347.6	1348.8	1349.9	1351.1	1352.2	1353.4	1354.5	1355.7	1356.8
10°	1332.8	1333.9	1335.1	1335.3	1335.6	1335.8	1336.0	1336.3	1336.5	1336.7	1337.0
12.5°	1326.0	1325.3	1324.6	1323.4	1322.3	1321.1	1320.0	1318.8	1317.7	1316.5	1315.4
15°	1327.7	1323.0	1318.4	1315.2	1311.9	1308.7	1305.4	1302.2	1298.9	1295.7	1292.4
17.5°	1335.8	1328.1	1320.5	1314.0	1307.5	1301.0	1294.5	1288.1	1281.6	1275.1	1268.6
20°	1354.1	1344.6	1335.1	1324.2	1313.3	1302.4	1291.5	1280.6	1269.7	1258.8	1247.9
22.5°	1369.4	1358.5	1347.6	1332.3	1317.0	1301.7	1286.4	1271.1	1255.8	1240.5	1225.2
25°	1385.6	1372.8	1360.1	1340.6	1321.2	1301.7	1282.2	1262.8	1243.3	1223.8	1204.4
27.5°	1399.7	1385.1	1370.5	1347.1	1323.7	1300.3	1276.9	1253.4	1230.0	1206.6	1183.2
30°	1410.2	1393.5	1376.8	1350.1	1323.5	1296.8	1270.2	1243.5	1216.9	1190.2	1163.6
32.5°	1419.5	1400.2	1381.0	1351.8	1322.6	1293.4	1264.2	1234.9	1205.7	1176.5	1147.3
35°	1430.3	1408.8	1387.2	1355.4	1323.7	1291.9	1260.2	1228.4	1196.7	1164.9	1133.2
37.5°	1442.4	1419.0	1395.6	1360.8	1326.1	1291.3	1256.5	1221.8	1187.0	1152.2	1117.5
40°	1451.2	1425.4	1399.7	1362.4	1325.1	1287.8	1250.5	1213.1	1175.8	1138.5	1101.2
42.5°	1460.9	1432.4	1403.9	1363.8	1323.7	1283.6	1243.5	1203.4	1163.3	1123.2	1083.1
45°	1470.2	1439.2	1408.1	1365.0	1321.9	1278.8	1235.7	1192.5	1149.4	1106.3	1063.2
47.5°	1476.7	1442.4	1408.1	1362.4	1316.8	1271.1	1225.4	1179.8	1134.1	1088.4	1042.8
50°	1483.2	1445.6	1408.1	1359.4	1310.7	1262.1	1213.4	1164.7	1116.0	1067.4	1018.7
52.5°	1488.0	1447.0	1406.0	1354.8	1303.6	1252.3	1201.1	1149.9	1098.7	1047.4	996.2
55°	1495.0	1450.5	1406.0	1351.8	1297.5	1243.3	1189.1	1134.8	1080.6	1026.4	972.1
57.5°	1499.4	1451.6	1403.9	1346.9	1289.9	1232.8	1175.8	1118.8	1061.8	1004.7	947.7
60°	1501.2	1450.5	1399.7	1340.1	1280.6	1221.0	1161.4	1101.9	1042.3	982.7	923.2
62.5°	1499.2	1446.3	1393.5	1331.1	1268.8	1206.4	1144.1	1081.7	1019.4	957.0	894.7
65°	1497.1	1442.1	1387.2	1321.8	1256.5	1191.1	1125.8	1060.4	995.1	929.7	864.4
67.5°	1486.4	1430.6	1374.7	1307.0	1239.3	1171.7	1104.0	1036.3	968.6	901.0	833.3
70°	1466.5	1410.1	1353.8	1284.5	1215.2	1145.9	1076.6	1007.3	938.0	868.7	799.4
72.5°	1436.3	1380.5	1324.6	1254.1	1183.7	1113.2	1042.8	972.3	901.9	831.4	761.0
75°	1393.2	1338.1	1282.9	1212.7	1142.4	1072.2	1002.0	931.7	861.5	791.3	721.0
77.5°	1341.5	1288.2	1234.9	1165.6	1096.3	1027.0	957.7	888.4	819.1	749.8	680.5
80°	1282.4	1230.5	1178.6	1110.9	1043.2	975.6	907.9	840.2	772.5	704.9	637.2
82.5°	1218.2	1168.2	1118.1	1053.0	987.8	922.7	857.6	792.4	727.3	662.2	597.0
85°	1158.2	1110.0	1061.8	998.3	934.8	871.3	807.8	744.2	680.7	617.2	553.7
87.5°	1102.4	1056.1	1009.7	948.5	887.3	826.1	764.9	703.7	642.5	581.3	520.1
90°	1058.6	1014.3	970.0	910.4	850.9	791.3	731.7	672.2	612.6	553.0	493.5
92.5°	1019.9	977.2	934.6	876.9	819.2	761.4	703.7	646.0	588.3	530.5	472.8
95°	983.7	942.5	901.2	845.1	789.0	732.9	676.8	620.8	564.7	508.6	452.5
97.5°	948.0	907.9	867.8	813.1	758.4	703.7	649.0	594.3	539.6	484.9	430.2
100°	910.7	871.5	832.3	779.2	726.1	673.1	620.0	566.9	513.8	460.8	407.7
102.5°	875.0	837.0	799.0	747.1	695.2	643.2	591.3	539.4	487.5	435.5	383.6
105°	838.1	800.8	763.5	713.2	662.9	612.6	562.3	512.0	461.7	411.4	361.1
107.5°	802.4	766.3	730.1	681.0	631.8	582.7	533.6	484.4	435.3	386.2	337.0
110°	766.3	731.5	696.7	649.0	601.2	553.5	505.7	458.0	410.2	362.5	314.7



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLED-LD4-12-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°	728.1	694.7	661.3	614.9	568.6	522.2	475.9	429.5	383.2	336.8	290.5
115°	689.8	657.8	625.8	581.1	536.3	491.6	446.9	402.1	357.4	312.7	267.9
117.5°	649.9	619.1	588.3	545.4	502.5	459.6	416.7	373.9	331.0	288.1	245.2
120°	607.9	578.3	548.6	507.8	467.0	426.2	385.4	344.7	303.9	263.1	222.3
122.5°	561.6	532.1	502.7	464.7	426.7	388.7	350.7	312.6	274.6	236.6	198.6
125°	519.2	491.1	463.1	427.2	391.3	355.3	319.4	283.5	247.6	211.6	175.7
127.5°	477.3	450.4	423.5	389.9	356.3	322.7	289.1	255.4	221.8	188.2	154.6
130°	439.2	414.7	390.1	358.1	326.1	294.1	262.1	230.2	198.2	166.2	134.2
132.5°	394.8	371.6	348.4	319.0	289.5	260.1	230.6	201.2	171.7	142.3	112.8
135°	353.0	331.9	310.8	283.7	256.6	229.5	202.4	175.2	148.1	121.0	93.9
137.5°	313.9	294.6	275.4	250.4	225.3	200.3	175.3	150.2	125.2	100.2	75.1
140°	272.3	254.0	235.7	213.5	191.2	169.0	146.7	124.5	102.2	80.0	57.7
142.5°	235.2	218.8	202.3	182.6	162.9	143.2	123.5	103.8	84.1	64.4	44.7
145°	197.0	182.0	166.9	150.2	133.5	116.8	100.1	83.5	66.8	50.1	33.4
147.5°	160.4	146.9	133.5	120.1	106.6	93.2	79.7	66.3	52.8	39.4	25.9
150°	126.3	114.3	102.2	91.8	81.3	70.9	60.5	50.0	39.6	29.2	18.7
152.5°	93.4	83.2	73.0	65.6	58.2	50.8	43.4	35.9	28.5	21.1	13.7
155°	63.1	54.5	45.9	41.3	36.6	32.0	27.4	22.7	18.1	13.5	8.8
157.5°	39.6	33.4	27.1	24.3	21.5	18.8	16.0	13.2	10.4	7.7	4.9
160°	20.9	16.7	12.5	11.3	10.2	9.0	7.9	6.7	5.6	4.4	3.3
162.5°	10.0	8.1	6.3	5.6	4.9	4.2	3.5	2.8	2.1	1.4	0.7
165°	3.5	2.8	2.1	1.9	1.6	1.4	1.2	0.9	0.7	0.5	0.2
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	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9
175°	0.0	0.0	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9
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: P201410

CATALOG NUMBER: 8LBLED-LD4-12-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°	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1
2.5°	1395.6	1399.3	1403.0	1406.7	1410.4	1414.1	1417.8	1421.5	1425.2	1428.9	1428.7
5°	1378.9	1383.8	1388.6	1393.5	1398.4	1403.2	1408.1	1413.0	1417.8	1422.7	1424.3
7.5°	1358.0	1363.8	1369.6	1375.4	1381.2	1387.0	1392.8	1398.6	1404.4	1410.2	1413.4
10°	1337.2	1343.7	1350.2	1356.7	1363.2	1369.6	1376.1	1382.6	1389.1	1395.6	1400.5
12.5°	1314.2	1320.9	1327.6	1334.4	1341.1	1347.8	1354.5	1361.3	1368.0	1374.7	1381.4
15°	1289.2	1295.9	1302.6	1309.4	1316.1	1322.8	1329.5	1336.3	1343.0	1349.7	1358.5
17.5°	1262.1	1269.0	1276.0	1282.9	1289.9	1296.8	1303.8	1310.7	1317.7	1324.6	1335.0
20°	1237.0	1243.3	1249.5	1255.8	1262.1	1268.3	1274.6	1280.9	1287.1	1293.4	1306.1
22.5°	1209.9	1215.2	1220.6	1225.9	1231.2	1236.6	1241.9	1247.2	1252.6	1257.9	1273.0
25°	1184.9	1188.8	1192.8	1196.7	1200.6	1204.6	1208.5	1212.4	1216.4	1220.3	1237.5
27.5°	1159.8	1162.1	1164.4	1166.8	1169.1	1171.4	1173.7	1176.1	1178.4	1180.7	1200.4
30°	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1159.6
32.5°	1118.1	1114.9	1111.6	1108.4	1105.1	1101.9	1098.6	1095.4	1092.1	1088.9	1114.9
35°	1101.4	1094.5	1087.5	1080.6	1073.6	1066.7	1059.7	1052.8	1045.8	1038.9	1068.6
37.5°	1082.7	1072.3	1061.8	1051.4	1041.0	1030.5	1020.1	1009.7	999.2	988.8	1022.2
40°	1063.9	1049.8	1035.6	1021.5	1007.3	993.2	979.0	964.9	950.7	936.6	973.9
42.5°	1043.0	1025.4	1007.8	990.2	972.6	954.9	937.3	919.7	902.1	884.5	925.8
45°	1020.1	999.0	977.9	956.8	935.7	914.6	893.5	872.4	851.3	830.2	875.4
47.5°	997.1	972.1	947.0	922.0	897.0	871.9	846.9	821.9	796.8	771.8	821.2
50°	970.0	942.0	913.9	885.9	857.8	829.8	801.7	773.7	745.6	717.6	770.4
52.5°	945.0	913.2	881.5	849.7	818.0	786.2	754.5	722.7	691.0	659.2	716.0
55°	917.9	882.9	847.9	812.9	777.9	742.9	707.9	672.9	637.9	602.9	663.2
57.5°	890.7	852.7	814.7	776.7	738.7	700.6	662.6	624.6	586.6	548.6	611.9
60°	863.6	821.9	780.2	738.4	696.7	655.0	613.3	571.5	529.8	488.1	555.1
62.5°	832.3	787.8	743.3	698.8	654.3	609.8	565.3	520.8	476.3	431.8	501.3
65°	799.0	752.2	705.4	658.5	611.7	564.9	518.1	471.2	424.4	377.6	449.7
67.5°	765.6	716.7	667.8	618.9	570.0	521.0	472.1	423.2	374.3	325.4	399.6
70°	730.1	679.3	628.6	577.8	527.1	476.3	425.6	374.8	324.1	273.3	349.3
72.5°	690.5	638.6	586.7	534.7	482.8	430.9	379.0	327.0	275.1	223.2	300.6
75°	650.8	598.0	545.1	492.3	439.4	386.6	333.7	280.9	228.0	175.2	253.5
77.5°	611.2	557.9	504.6	451.3	398.0	344.6	291.3	238.0	184.7	131.4	210.2
80°	569.5	516.7	463.8	411.0	358.1	305.3	252.4	199.6	146.7	93.9	172.7
82.5°	531.9	479.3	426.7	374.1	321.5	268.8	216.2	163.6	111.0	58.4	136.3
85°	490.2	439.2	388.2	337.2	286.2	235.3	184.3	133.3	82.3	31.3	107.8
87.5°	458.9	409.1	359.2	309.4	259.6	209.7	159.9	110.1	60.2	10.4	85.0
90°	433.9	385.7	337.5	289.3	241.1	192.8	144.6	96.4	48.2	0.0	72.1
92.5°	415.1	369.0	322.9	276.7	230.6	184.5	138.4	92.2	46.1	0.0	69.1
95°	396.4	352.4	308.3	264.3	220.2	176.2	132.1	88.1	44.0	0.0	66.5
97.5°	375.5	333.8	292.1	250.3	208.6	166.9	125.2	83.4	41.7	0.0	63.5
100°	354.6	315.2	275.8	236.4	197.0	157.6	118.2	78.8	39.4	0.0	60.7
102.5°	331.7	294.8	258.0	221.1	184.3	147.4	110.6	73.7	36.9	0.0	57.0
105°	310.8	276.3	241.7	207.2	172.7	138.1	103.6	69.1	34.5	0.0	54.0
107.5°	287.9	255.9	223.9	191.9	159.9	128.0	96.0	64.0	32.0	0.0	51.0
110°	267.0	237.3	207.7	178.0	148.3	118.7	89.0	59.3	29.7	0.0	47.7



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLED-LD4-12-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°	244.1	217.0	189.9	162.7	135.6	108.5	81.4	54.2	27.1	0.0	44.5
115°	223.2	198.4	173.6	148.8	124.0	99.2	74.4	49.6	24.8	0.0	40.8
117.5°	202.3	180.1	157.8	135.6	113.3	91.1	68.8	46.6	24.3	2.1	39.2
120°	181.5	161.6	141.6	121.7	101.8	81.8	61.9	42.0	22.0	2.1	35.7
122.5°	160.6	142.8	124.9	107.1	89.2	71.4	53.5	35.7	17.8	0.0	30.4
125°	139.8	124.5	109.2	93.9	78.6	63.3	48.0	32.7	17.4	2.1	28.5
127.5°	121.0	107.8	94.6	81.4	68.2	54.9	41.7	28.5	15.3	2.1	24.3
130°	102.2	91.1	80.0	68.8	57.7	46.6	35.5	24.3	13.2	2.1	20.2
132.5°	83.4	74.4	65.3	56.3	47.3	38.2	29.2	20.2	11.1	2.1	16.7
135°	66.8	59.6	52.4	45.2	38.0	30.9	23.7	16.5	9.3	2.1	13.5
137.5°	50.1	44.8	39.4	34.1	28.8	23.4	18.1	12.8	7.4	2.1	10.7
140°	35.5	31.8	28.1	24.4	20.7	16.9	13.2	9.5	5.8	2.1	8.1
142.5°	25.0	22.5	19.9	17.4	14.8	12.3	9.7	7.2	4.6	2.1	6.3
145°	16.7	15.1	13.5	11.8	10.2	8.6	7.0	5.3	3.7	2.1	5.1
147.5°	12.5	11.3	10.2	9.0	7.9	6.7	5.6	4.4	3.3	2.1	4.0
150°	8.3	7.6	6.9	6.2	5.5	4.9	4.2	3.5	2.8	2.1	3.5
152.5°	6.3	5.8	5.4	4.9	4.4	4.0	3.5	3.0	2.6	2.1	3.0
155°	4.2	4.0	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	2.6
157.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
160°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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	1.9
167.5°	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	1.9
170°	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	1.9
172.5°	2.1	2.3	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	3.7
175°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.9
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: P201410

CATALOG NUMBER: 8LBLELD4-12-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°	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1
2.5°	1428.5	1428.2	1428.0	1427.8	1427.6	1427.3	1427.1	1426.9	1428.1	1429.2	1430.4
5°	1425.9	1427.6	1429.2	1430.8	1432.4	1434.1	1435.7	1437.3	1439.8	1442.4	1444.9
7.5°	1416.7	1419.9	1423.2	1426.4	1429.7	1432.9	1436.2	1439.4	1443.6	1447.7	1451.9
10°	1405.3	1410.2	1415.1	1419.9	1424.8	1429.7	1434.5	1439.4	1445.4	1451.4	1457.5
12.5°	1388.1	1394.9	1401.6	1408.3	1415.0	1421.8	1428.5	1435.2	1443.8	1452.4	1460.9
15°	1367.3	1376.1	1384.9	1393.7	1402.5	1411.3	1420.1	1428.9	1440.3	1451.6	1463.0
17.5°	1345.5	1355.9	1366.3	1376.8	1387.2	1397.6	1408.1	1418.5	1433.1	1447.7	1462.3
20°	1318.9	1331.6	1344.4	1357.1	1369.9	1382.6	1395.4	1408.1	1426.6	1445.2	1463.7
22.5°	1288.0	1303.1	1318.2	1333.2	1348.3	1363.4	1378.4	1393.5	1417.4	1441.2	1465.1
25°	1254.6	1271.8	1288.9	1306.1	1323.2	1340.4	1357.5	1374.7	1403.9	1433.1	1462.3
27.5°	1220.1	1239.8	1259.5	1279.2	1298.9	1318.6	1338.3	1358.0	1392.3	1426.6	1460.9
30°	1182.3	1205.0	1227.7	1250.5	1273.2	1295.9	1318.6	1341.3	1380.2	1419.2	1458.1
32.5°	1140.8	1166.8	1192.8	1218.7	1244.7	1270.7	1296.6	1322.6	1366.2	1409.7	1453.3
35°	1098.2	1127.9	1157.6	1187.2	1216.9	1246.6	1276.2	1305.9	1353.4	1400.9	1448.4
37.5°	1055.6	1088.9	1122.3	1155.7	1189.1	1222.4	1255.8	1289.2	1340.7	1392.1	1443.6
40°	1011.2	1048.6	1085.9	1123.2	1160.5	1197.9	1235.2	1272.5	1327.9	1383.3	1438.7
42.5°	967.0	1008.3	1049.5	1090.8	1132.0	1173.3	1214.5	1255.8	1314.7	1373.6	1432.4
45°	920.6	965.8	1011.0	1056.2	1101.4	1146.6	1191.8	1237.0	1299.4	1361.7	1424.1
47.5°	870.6	919.9	969.3	1018.7	1068.1	1117.4	1166.8	1216.2	1282.3	1348.3	1414.4
50°	823.3	876.1	929.0	981.8	1034.7	1087.5	1140.4	1193.2	1262.5	1331.8	1401.1
52.5°	772.8	829.6	886.4	943.1	999.9	1056.7	1113.5	1170.3	1242.4	1314.5	1386.5
55°	723.4	783.7	843.9	904.2	964.4	1024.7	1084.9	1145.2	1220.5	1295.9	1371.2
57.5°	675.2	738.4	801.7	865.0	928.3	991.5	1054.8	1118.1	1196.4	1274.8	1353.1
60°	622.1	689.1	756.1	823.0	890.0	957.0	1024.0	1091.0	1172.4	1253.7	1335.1
62.5°	570.9	640.4	709.9	779.5	849.0	918.5	988.1	1057.6	1142.0	1226.4	1310.7
65°	521.8	593.8	665.9	738.0	810.1	882.1	954.2	1026.3	1113.2	1200.1	1287.1
67.5°	473.8	547.9	622.1	696.3	770.5	844.6	918.8	993.0	1082.7	1172.4	1262.1
70°	425.3	501.4	577.4	653.4	729.4	805.5	881.5	957.5	1049.3	1141.1	1232.9
72.5°	378.0	455.5	532.9	610.3	687.7	765.2	842.6	920.0	1012.9	1105.9	1198.8
75°	331.9	410.2	488.6	566.9	645.3	723.6	802.0	880.3	974.2	1068.1	1161.9
77.5°	289.0	367.8	446.6	525.5	604.3	683.1	761.9	840.7	934.6	1028.4	1122.3
80°	251.5	330.3	409.1	487.9	566.7	645.5	724.3	803.1	896.0	989.0	1081.9
82.5°	214.2	292.0	369.9	447.8	525.7	603.5	681.4	759.3	851.8	944.3	1036.8
85°	184.3	260.8	337.3	413.7	490.2	566.7	643.2	719.7	810.8	901.9	993.0
87.5°	159.7	234.3	308.9	383.6	458.2	532.8	607.5	682.1	771.3	860.6	949.8
90°	144.2	216.3	288.4	360.4	432.5	504.6	576.7	648.8	736.2	823.6	910.9
92.5°	138.1	207.2	276.3	345.3	414.4	483.5	552.5	621.6	707.6	793.6	879.6
95°	133.0	199.6	266.1	332.6	399.1	465.7	532.2	598.7	683.1	767.4	851.8
97.5°	127.0	190.5	254.0	317.6	381.1	444.6	508.1	571.6	654.8	738.0	821.2
100°	121.4	182.2	242.9	303.6	364.3	425.1	485.8	546.5	628.3	710.1	792.0
102.5°	114.0	171.1	228.1	285.1	342.1	399.2	456.2	513.2	594.1	675.0	755.9
105°	108.0	162.0	216.0	270.1	324.1	378.1	432.1	486.1	565.1	644.2	723.2
107.5°	102.0	153.0	204.0	254.9	305.9	356.9	407.9	458.9	536.3	613.7	691.2
110°	95.5	143.2	191.0	238.7	286.5	334.2	382.0	429.7	505.3	580.8	656.4



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLED-LD4-12-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°	89.0	133.5	178.0	222.5	267.0	311.5	356.0	400.5	473.7	547.0	620.2
115°	81.6	122.4	163.2	203.9	244.7	285.5	326.3	367.1	438.0	509.0	579.9
117.5°	76.3	113.4	150.5	187.5	224.6	261.7	298.8	335.9	404.5	473.1	541.7
120°	69.3	102.9	136.5	170.2	203.8	237.4	271.0	304.6	370.9	437.2	503.5
122.5°	60.7	91.1	121.5	151.8	182.2	212.6	242.9	273.3	336.8	400.3	463.8
125°	54.9	81.4	107.8	134.2	160.6	187.1	213.5	239.9	300.6	361.3	422.1
127.5°	46.6	68.8	91.1	113.3	135.6	157.8	180.1	202.3	259.6	316.8	374.1
130°	38.3	56.3	74.4	92.5	110.6	128.6	146.7	164.8	217.0	269.1	321.3
132.5°	31.3	45.9	60.5	75.1	89.7	104.3	118.9	133.5	180.3	227.1	274.0
135°	24.8	36.2	47.5	58.9	70.2	81.6	92.9	104.3	145.8	187.3	228.8
137.5°	19.3	27.8	36.4	45.0	53.6	62.1	70.7	79.3	116.2	153.0	189.9
140°	14.1	20.2	26.2	32.2	38.2	44.3	50.3	56.3	88.8	121.2	153.7
142.5°	10.4	14.6	18.8	22.9	27.1	31.3	35.4	39.6	67.4	95.2	123.1
145°	8.1	11.1	14.1	17.2	20.2	23.2	26.2	29.2	52.1	75.1	98.0
147.5°	5.8	7.7	9.5	11.4	13.2	15.1	16.9	18.8	37.8	56.8	75.8
150°	4.9	6.3	7.7	9.0	10.4	11.8	13.2	14.6	29.0	43.3	57.7
152.5°	3.9	4.9	5.8	6.7	7.6	8.6	9.5	10.4	20.8	31.3	41.7
155°	3.0	3.5	4.0	4.4	4.9	5.4	5.8	6.3	13.2	20.2	27.1
157.5°	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	8.4	12.5	16.7
160°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.4	6.7	9.0
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°	1.6	1.4	1.2	0.9	0.7	0.5	0.2	0.0	0.2	0.5	0.7
167.5°	1.6	1.4	1.2	0.9	0.7	0.5	0.2	0.0	0.0	0.0	0.0
170°	1.6	1.4	1.2	0.9	0.7	0.5	0.2	0.0	0.0	0.0	0.0
172.5°	3.3	2.8	2.3	1.9	1.4	0.9	0.5	0.0	0.0	0.0	0.0
175°	1.6	1.4	1.2	0.9	0.7	0.5	0.2	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: P201410

CATALOG NUMBER: 8LBLELD4-12-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°	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1
2.5°	1431.5	1432.7	1433.8	1435.0	1436.1	1437.3	1437.5	1437.8	1438.0	1438.2	1438.5
5°	1447.5	1450.0	1452.6	1455.1	1457.7	1460.2	1461.4	1462.5	1463.7	1464.9	1466.0
7.5°	1456.1	1460.2	1464.4	1468.6	1472.7	1476.9	1480.1	1483.4	1486.6	1489.9	1493.1
10°	1463.5	1469.5	1475.5	1481.6	1487.6	1493.6	1498.9	1504.3	1509.6	1514.9	1520.3
12.5°	1469.5	1478.1	1486.7	1495.2	1503.8	1512.4	1519.8	1527.2	1534.6	1542.0	1549.5
15°	1474.4	1485.7	1497.1	1508.5	1519.8	1531.2	1540.9	1550.7	1560.4	1570.1	1579.9
17.5°	1476.9	1491.5	1506.1	1520.7	1535.3	1549.9	1563.8	1577.7	1591.6	1605.5	1619.5
20°	1482.3	1500.8	1519.4	1537.9	1556.5	1575.0	1592.1	1609.3	1626.4	1643.6	1660.7
22.5°	1489.0	1512.8	1536.7	1560.6	1584.4	1608.3	1627.8	1647.3	1666.7	1686.2	1705.7
25°	1491.5	1520.8	1550.0	1579.2	1608.4	1637.6	1659.6	1681.6	1703.6	1725.6	1747.7
27.5°	1495.2	1529.6	1563.9	1598.2	1632.5	1666.8	1691.1	1715.5	1739.8	1764.1	1788.5
30°	1497.1	1536.0	1575.0	1613.9	1652.9	1691.8	1718.5	1745.1	1771.8	1798.4	1825.1
32.5°	1496.9	1540.4	1584.0	1627.6	1671.1	1714.7	1744.1	1773.6	1803.0	1832.5	1861.9
35°	1495.9	1543.5	1591.0	1638.5	1686.0	1733.5	1766.0	1798.4	1830.9	1863.3	1895.8
37.5°	1495.0	1546.5	1597.9	1649.4	1700.8	1752.3	1787.5	1822.8	1858.0	1893.2	1928.5
40°	1494.1	1549.5	1604.9	1660.3	1715.7	1771.1	1808.9	1846.7	1884.4	1922.2	1960.0
42.5°	1491.3	1550.2	1609.1	1667.9	1726.8	1785.7	1826.7	1867.7	1908.8	1949.8	1990.8
45°	1486.4	1548.8	1611.1	1673.5	1735.8	1798.2	1842.2	1886.3	1930.3	1974.3	2018.4
47.5°	1480.4	1546.5	1612.5	1678.6	1744.6	1810.7	1858.2	1905.7	1953.2	2000.7	2048.3
50°	1470.4	1539.8	1609.1	1678.4	1747.7	1817.0	1868.0	1919.0	1970.0	2021.0	2071.9
52.5°	1458.6	1530.7	1602.8	1674.8	1746.9	1819.0	1873.9	1928.9	1983.8	2038.7	2093.7
55°	1446.5	1521.9	1597.2	1672.5	1747.9	1823.2	1881.6	1940.0	1998.4	2056.8	2115.3
57.5°	1431.5	1509.8	1588.2	1666.5	1744.9	1823.2	1884.9	1946.5	2008.2	2069.8	2131.5
60°	1416.4	1497.8	1579.1	1660.5	1741.8	1823.2	1887.6	1952.1	2016.5	2080.9	2145.4
62.5°	1395.1	1479.5	1563.9	1648.2	1732.6	1817.0	1884.0	1951.0	2017.9	2084.9	2151.9
65°	1374.0	1460.9	1547.8	1634.8	1721.7	1808.6	1877.9	1947.2	2016.5	2085.8	2155.1
67.5°	1351.8	1441.5	1531.2	1620.9	1710.6	1800.3	1871.0	1941.7	2012.4	2083.1	2153.7
70°	1324.7	1416.4	1508.2	1600.0	1691.8	1783.6	1855.5	1927.3	1999.2	2071.0	2142.9
72.5°	1291.8	1384.7	1477.7	1570.6	1663.6	1756.5	1829.5	1902.5	1975.5	2048.5	2121.6
75°	1255.8	1349.7	1443.6	1537.4	1631.3	1725.2	1798.7	1872.1	1945.6	2019.1	2092.5
77.5°	1216.2	1310.0	1403.9	1497.8	1591.6	1685.5	1758.7	1832.0	1905.2	1978.5	2051.7
80°	1174.9	1267.8	1360.8	1453.7	1546.7	1639.6	1712.4	1785.2	1858.0	1930.8	2003.5
82.5°	1129.3	1221.7	1314.2	1406.7	1499.2	1591.7	1663.1	1734.5	1805.9	1877.3	1948.6
85°	1084.1	1175.1	1266.2	1357.3	1448.4	1539.5	1610.0	1680.4	1750.9	1821.4	1891.8
87.5°	1039.1	1128.3	1217.6	1306.8	1396.1	1485.3	1554.1	1623.0	1691.8	1760.6	1829.5
90°	998.3	1085.7	1173.1	1260.4	1347.8	1435.2	1502.2	1569.2	1636.2	1703.2	1770.1
92.5°	965.6	1051.6	1137.6	1223.6	1309.6	1395.6	1461.0	1526.3	1591.7	1657.0	1722.4
95°	936.2	1020.5	1104.9	1189.3	1273.6	1358.0	1422.4	1486.9	1551.3	1615.7	1680.2
97.5°	904.4	987.7	1070.9	1154.1	1237.3	1320.5	1382.6	1444.7	1506.8	1568.9	1631.1
100°	873.8	955.6	1037.4	1119.3	1201.1	1282.9	1343.6	1404.4	1465.1	1525.8	1586.6
102.5°	836.8	917.6	998.5	1079.4	1160.3	1241.2	1301.0	1360.8	1420.6	1480.4	1540.2
105°	802.2	881.3	960.3	1039.3	1118.4	1197.4	1256.3	1315.2	1374.0	1432.9	1491.8
107.5°	768.6	846.0	923.4	1000.9	1078.3	1155.7	1212.9	1270.2	1327.4	1384.7	1441.9
110°	732.0	807.5	883.1	958.7	1034.2	1109.8	1165.9	1222.0	1278.1	1334.2	1390.2



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLED-LD4-12-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°	693.5	766.7	840.0	913.2	986.5	1059.7	1114.4	1169.1	1223.8	1278.5	1333.2
115°	650.8	721.8	792.7	863.6	934.6	1005.5	1059.3	1113.0	1166.8	1220.6	1274.3
117.5°	610.3	678.9	747.5	816.1	884.7	953.3	1005.2	1057.1	1109.1	1161.0	1212.9
120°	569.8	636.0	702.3	768.6	834.9	901.2	951.0	1000.9	1050.7	1100.5	1150.4
122.5°	527.3	590.9	654.4	717.9	781.4	844.9	892.9	940.9	988.8	1036.8	1084.8
125°	482.8	543.5	604.2	665.0	725.7	786.4	832.3	878.2	924.1	970.0	1015.9
127.5°	431.3	488.6	545.8	603.1	660.3	717.6	762.3	807.1	851.8	896.5	941.3
130°	373.4	425.6	477.7	529.9	582.0	634.2	679.4	724.6	769.8	815.0	860.1
132.5°	320.8	367.6	414.4	461.3	508.1	554.9	599.6	644.4	689.1	733.8	778.6
135°	270.3	311.7	353.2	394.7	436.2	477.7	521.5	565.3	609.1	652.9	696.8
137.5°	226.7	263.6	300.4	337.3	374.1	411.0	451.8	492.6	533.4	574.2	614.9
140°	186.1	218.6	251.0	283.5	315.9	348.4	384.8	421.2	457.6	494.0	530.3
142.5°	150.9	178.7	206.5	234.4	262.2	290.0	322.0	354.0	385.9	417.9	449.9
145°	121.0	143.9	166.9	189.8	212.8	235.7	263.3	290.9	318.5	346.1	373.6
147.5°	94.8	113.8	132.8	151.8	170.8	189.8	213.0	236.2	259.3	282.5	305.7
150°	72.1	86.4	100.8	115.2	129.5	143.9	163.6	183.3	203.0	222.7	242.5
152.5°	52.1	62.6	73.0	83.4	93.9	104.3	120.5	136.7	153.0	169.2	185.4
155°	34.1	41.0	48.0	54.9	61.9	68.8	81.6	94.3	107.1	119.8	132.6
157.5°	20.9	25.0	29.2	33.4	37.5	41.7	51.2	60.7	70.2	79.7	89.2
160°	11.3	13.7	16.0	18.3	20.6	22.9	28.9	35.0	41.0	47.0	53.1
162.5°	4.9	5.5	6.2	6.9	7.6	8.3	11.8	15.3	18.7	22.2	25.7
165°	0.9	1.2	1.4	1.6	1.9	2.1	3.5	4.9	6.3	7.7	9.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.7	0.9	1.2
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: P201410

CATALOG NUMBER: 8LBLELD4-12-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°	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1
2.5°	1438.7	1438.9	1439.2	1439.4	1438.2	1437.1	1435.9	1434.7	1433.6	1432.4	1431.2
5°	1467.2	1468.4	1469.5	1470.7	1470.9	1471.2	1471.4	1471.6	1471.9	1472.1	1472.3
7.5°	1496.4	1499.6	1502.9	1506.1	1506.3	1506.6	1506.8	1507.0	1507.3	1507.5	1507.7
10°	1525.6	1530.9	1536.3	1541.6	1542.3	1543.0	1543.7	1544.4	1545.1	1545.8	1546.5
12.5°	1556.9	1564.3	1571.7	1579.1	1581.0	1582.8	1584.7	1586.5	1588.4	1590.2	1592.1
15°	1589.6	1599.3	1609.1	1618.8	1622.7	1626.7	1630.6	1634.5	1638.5	1642.4	1646.3
17.5°	1633.4	1647.3	1661.2	1675.1	1679.5	1683.9	1688.3	1692.7	1697.1	1701.5	1705.9
20°	1677.9	1695.0	1712.2	1729.3	1734.9	1740.4	1746.0	1751.6	1757.1	1762.7	1768.3
22.5°	1725.2	1744.6	1764.1	1783.6	1790.1	1796.6	1803.1	1809.6	1816.0	1822.5	1829.0
25°	1769.7	1791.7	1813.7	1835.7	1842.9	1850.1	1857.3	1864.5	1871.6	1878.8	1886.0
27.5°	1812.8	1837.1	1861.5	1885.8	1894.1	1902.5	1910.8	1919.2	1927.5	1935.9	1944.2
30°	1851.7	1878.4	1905.0	1931.7	1941.4	1951.2	1960.9	1970.6	1980.4	1990.1	1999.8
32.5°	1891.4	1920.8	1950.3	1979.7	1990.6	2001.5	2012.4	2023.3	2034.1	2045.0	2055.9
35°	1928.2	1960.7	1993.1	2025.6	2037.9	2050.2	2062.4	2074.7	2087.0	2099.3	2111.5
37.5°	1963.7	1998.9	2034.2	2069.4	2083.1	2096.7	2110.4	2124.1	2137.7	2151.4	2165.1
40°	1997.8	2035.5	2073.3	2111.1	2126.4	2141.7	2157.0	2172.3	2187.6	2202.9	2218.2
42.5°	2031.8	2072.9	2113.9	2154.9	2171.6	2188.3	2205.0	2221.7	2238.3	2255.0	2271.7
45°	2062.4	2106.4	2150.5	2194.5	2213.0	2231.6	2250.1	2268.7	2287.2	2305.8	2324.3
47.5°	2095.8	2143.3	2190.8	2238.3	2258.2	2278.2	2298.1	2318.0	2338.0	2357.9	2377.8
50°	2122.9	2173.9	2224.9	2275.9	2297.5	2319.0	2340.6	2362.1	2383.7	2405.2	2426.8
52.5°	2148.6	2203.5	2258.5	2313.4	2336.6	2359.8	2382.9	2406.1	2429.3	2452.5	2475.6
55°	2173.7	2232.1	2290.5	2348.9	2373.2	2397.6	2421.9	2446.2	2470.6	2494.9	2519.2
57.5°	2193.1	2254.8	2316.4	2378.1	2403.8	2429.6	2455.3	2481.0	2506.8	2532.5	2558.2
60°	2209.8	2274.2	2338.7	2403.1	2429.8	2456.4	2483.1	2509.7	2536.4	2563.0	2589.7
62.5°	2218.9	2285.8	2352.8	2419.8	2447.4	2475.0	2502.6	2530.2	2557.7	2585.3	2612.9
65°	2224.4	2293.7	2363.0	2432.3	2460.1	2487.9	2515.8	2543.6	2571.4	2599.2	2627.1
67.5°	2224.4	2295.1	2365.8	2436.5	2464.5	2492.6	2520.6	2548.7	2576.7	2604.8	2632.8
70°	2214.7	2286.6	2358.4	2430.3	2458.6	2486.9	2515.1	2543.4	2571.7	2600.0	2628.2
72.5°	2194.6	2267.6	2340.6	2413.6	2441.9	2470.2	2498.4	2526.7	2555.0	2583.3	2611.5
75°	2166.0	2239.5	2312.9	2386.4	2414.5	2442.5	2470.6	2498.6	2526.7	2554.7	2582.8
77.5°	2125.0	2198.2	2271.5	2344.7	2372.5	2400.3	2428.2	2456.0	2483.8	2511.6	2539.5
80°	2076.3	2149.1	2221.9	2294.7	2322.3	2349.9	2377.4	2405.0	2432.6	2460.2	2487.7
82.5°	2020.0	2091.4	2162.8	2234.2	2261.5	2288.9	2316.2	2343.6	2370.9	2398.3	2425.6
85°	1962.3	2032.8	2103.2	2173.7	2200.4	2227.0	2253.7	2280.3	2307.0	2333.6	2360.3
87.5°	1898.3	1967.1	2036.0	2104.8	2131.2	2157.6	2184.1	2210.5	2236.9	2263.3	2289.8
90°	1837.1	1904.1	1971.1	2038.1	2064.1	2090.0	2116.0	2141.9	2167.9	2193.8	2219.8
92.5°	1787.7	1853.1	1918.4	1983.8	2008.8	2033.9	2058.9	2083.9	2109.0	2134.0	2159.0
95°	1744.6	1809.0	1873.5	1937.9	1961.5	1985.2	2008.8	2032.5	2056.1	2079.8	2103.4
97.5°	1693.2	1755.3	1817.4	1879.5	1903.1	1926.8	1950.4	1974.1	1997.7	2021.4	2045.0
100°	1647.3	1708.0	1768.8	1829.5	1852.2	1874.9	1897.6	1920.3	1943.1	1965.8	1988.5
102.5°	1600.0	1659.8	1719.6	1779.4	1801.4	1823.4	1845.5	1867.5	1889.5	1911.5	1933.6
105°	1550.7	1609.5	1668.4	1727.3	1748.9	1770.4	1792.0	1813.5	1835.1	1856.6	1878.2
107.5°	1499.2	1556.4	1613.7	1670.9	1692.2	1713.5	1734.9	1756.2	1777.5	1798.8	1820.2
110°	1446.3	1502.4	1558.5	1614.6	1635.5	1656.3	1677.2	1698.1	1718.9	1739.8	1760.7



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLED-LD4-12-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°	1387.9	1442.6	1497.3	1552.0	1572.2	1592.3	1612.5	1632.7	1652.8	1673.0	1693.2
115°	1328.1	1381.9	1435.6	1489.4	1508.9	1528.4	1547.8	1567.3	1586.8	1606.3	1625.7
117.5°	1264.8	1316.8	1368.7	1420.6	1439.6	1458.6	1477.6	1496.6	1515.7	1534.7	1553.7
120°	1200.2	1250.0	1299.9	1349.7	1368.2	1386.8	1405.3	1423.9	1442.4	1461.0	1479.5
122.5°	1132.8	1180.7	1228.7	1276.7	1294.5	1312.4	1330.2	1348.1	1365.9	1383.8	1401.6
125°	1061.8	1107.7	1153.6	1199.5	1216.9	1234.3	1251.6	1269.0	1286.4	1303.8	1321.1
127.5°	986.0	1030.7	1075.5	1120.2	1136.9	1153.6	1170.3	1187.0	1203.6	1220.3	1237.0
130°	905.3	950.5	995.7	1040.9	1056.7	1072.4	1088.2	1104.0	1119.7	1135.5	1151.3
132.5°	823.3	868.0	912.8	957.5	972.8	988.1	1003.4	1018.7	1034.0	1049.3	1064.6
135°	740.6	784.4	828.2	872.0	886.6	901.2	915.8	930.4	945.0	959.6	974.2
137.5°	655.7	696.5	737.3	778.1	792.5	806.8	821.2	835.6	849.9	864.3	878.7
140°	566.7	603.1	639.5	675.9	691.0	706.0	721.1	736.2	751.2	766.3	781.4
142.5°	481.9	513.8	545.8	577.8	593.6	609.3	625.1	640.9	656.6	672.4	688.2
145°	401.2	428.8	456.4	484.0	500.7	517.4	534.1	550.8	567.4	584.1	600.8
147.5°	328.9	352.0	375.2	398.4	415.3	432.2	449.2	466.1	483.0	499.9	516.9
150°	262.2	281.9	301.6	321.3	337.1	352.8	368.6	384.3	400.1	415.8	431.6
152.5°	201.6	217.9	234.1	250.3	264.9	279.5	294.1	308.7	323.3	337.9	352.5
155°	145.3	158.1	170.8	183.6	197.0	210.5	223.9	237.4	250.8	264.3	277.7
157.5°	98.7	108.2	117.7	127.2	138.6	149.9	161.3	172.7	184.0	195.4	206.8
160°	59.1	65.1	71.2	77.2	86.2	95.3	104.3	113.3	122.4	131.4	140.4
162.5°	29.2	32.6	36.1	39.6	45.9	52.1	58.4	64.7	70.9	77.2	83.5
165°	10.4	11.8	13.2	14.6	18.3	22.0	25.7	29.4	33.2	36.9	40.6
167.5°	1.4	1.6	1.9	2.1	3.5	4.9	6.3	7.7	9.0	10.4	11.8
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: P201410

CATALOG NUMBER: 8LBLED-LD4-12-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1408.1	1408.1
2.5°	1430.1	1428.9
5°	1472.6	1472.8
7.5°	1508.0	1508.2
10°	1547.2	1547.9
12.5°	1593.9	1595.8
15°	1650.3	1654.2
17.5°	1710.3	1714.7
20°	1773.8	1779.4
22.5°	1835.5	1842.0
25°	1893.2	1900.4
27.5°	1952.6	1960.9
30°	2009.6	2019.3
32.5°	2066.8	2077.7
35°	2123.8	2136.1
37.5°	2178.7	2192.4
40°	2233.5	2248.8
42.5°	2288.4	2305.1
45°	2342.9	2361.4
47.5°	2397.8	2417.7
50°	2448.3	2469.9
52.5°	2498.8	2522.0
55°	2543.6	2567.9
57.5°	2584.0	2609.7
60°	2616.3	2643.0
62.5°	2640.5	2668.1
65°	2654.9	2682.7
67.5°	2660.9	2688.9
70°	2656.5	2684.8
72.5°	2639.8	2668.1
75°	2610.8	2638.9
77.5°	2567.3	2595.1
80°	2515.3	2542.9
82.5°	2453.0	2480.3
85°	2386.9	2413.6
87.5°	2316.2	2342.6
90°	2245.7	2271.7
92.5°	2184.1	2209.1
95°	2127.1	2150.7
97.5°	2068.7	2092.3
100°	2011.2	2033.9
102.5°	1955.6	1977.6
105°	1899.7	1921.3
107.5°	1841.5	1862.8
110°	1781.5	1802.4



TEST NUMBER: P201410

CATALOG NUMBER: 8LBLED-LD4-12-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1713.3	1733.5
115°	1645.2	1664.7
117.5°	1572.7	1591.7
120°	1498.1	1516.6
122.5°	1419.5	1437.3
125°	1338.5	1355.9
127.5°	1253.7	1270.4
130°	1167.0	1182.8
132.5°	1079.9	1095.2
135°	988.8	1003.4
137.5°	893.0	907.4
140°	796.4	811.5
142.5°	703.9	719.7
145°	617.5	634.2
147.5°	533.8	550.7
150°	447.3	463.1
152.5°	367.1	381.7
155°	291.2	304.6
157.5°	218.1	229.5
160°	149.5	158.5
162.5°	89.7	96.0
165°	44.3	48.0
167.5°	13.2	14.6
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)