

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: P201408

Luminaire Tested: **8LBLED-LD4-12-ASYMW-UNV-L835-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201408
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: 8LBLED-LD4-12-ASYMW-UNV-L835-CD2-U
Description: 8 ft. Low Bay Linear, 8000 lm, Wht Asym lens, 3.5K
Light Source: (616) 3500K CCT, 80 CRI LEDS
2UT217098A8350C, 2UT217056A8350B
Ballast/Driver: OSRAM
(OT85W01250CC), (OT50W0800CC)

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12156.4 lumens
Efficiency: N/A
Efficacy: 125.5 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

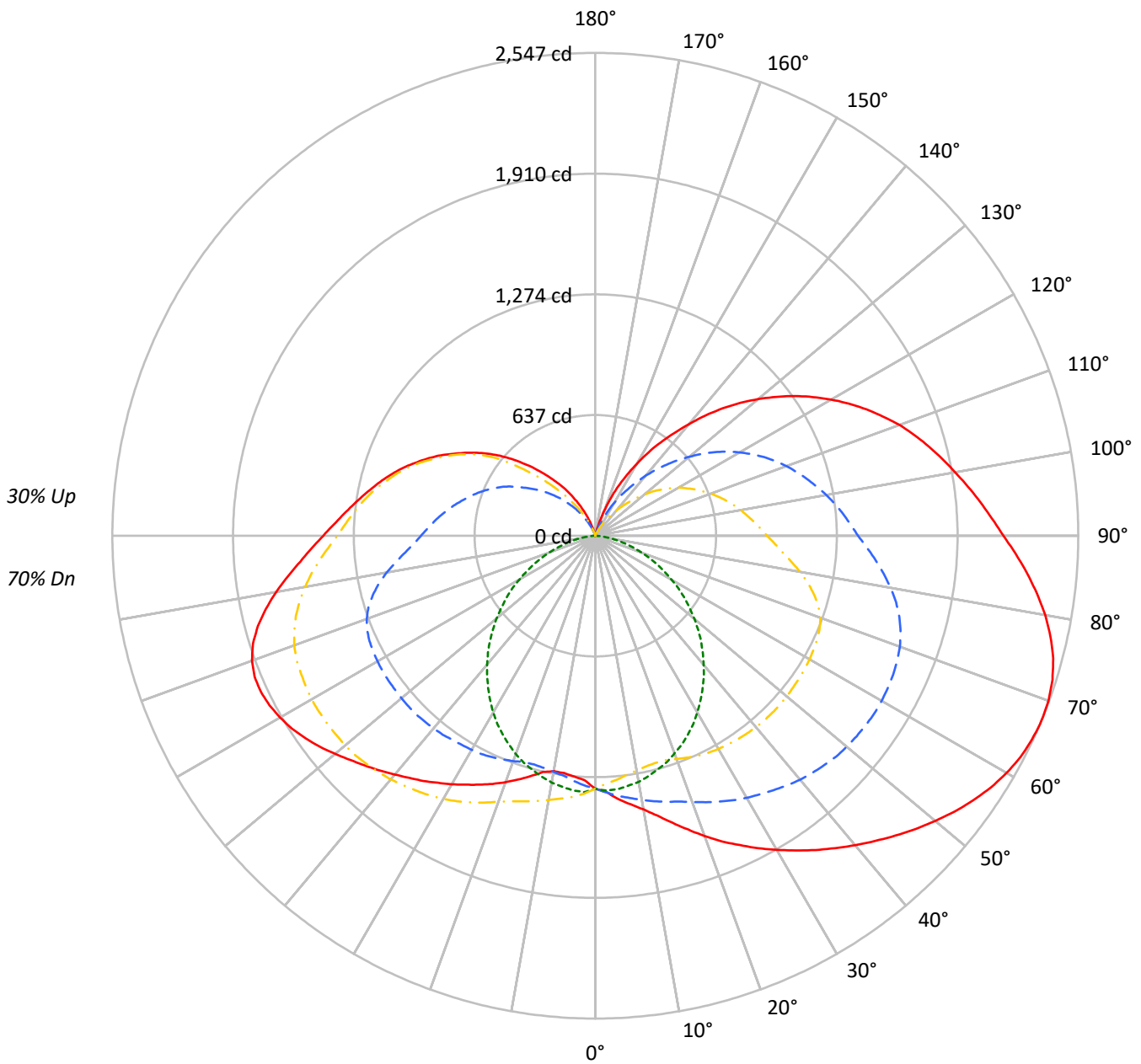
Input Watts (W): 96.83
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	10748	10748	10748	10748
5°	10175	10828	9296	10876
10°	9837	10735	8457	10767
15°	9801	10559	8206	10591
20°	9945	10373	8161	10407
25°	10125	10154	8146	10154
30°	10353	9854	8192	9871
35°	10632	9525	8296	9507
40°	10956	9153	8456	9133
45°	11351	8757	8704	8734
50°	11805	8289	9034	8265
55°	12297	7789	9420	7735
60°	12779	7161	9793	7130
65°	13198	6531	10109	6459
70°	13549	5736	10264	5692
75°	13778	4767	10151	4710
80°	13861	3518	9836	3595
85°	13873	1831	9472	2109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	1.0
10°-20°	383.7	3.2
20°-30°	646.3	5.3
30°-40°	897.4	7.4
40°-50°	1123.4	9.2
50°-60°	1306.4	10.7
60°-70°	1415.9	11.6
70°-80°	1394.6	11.5
80°-90°	1235.7	10.2
90°-100°	1065.7	8.8
100°-110°	897.2	7.4
110°-120°	702.3	5.8
120°-130°	492.2	4.0
130°-140°	290.6	2.4
140°-150°	133.9	1.1
150°-160°	40.1	0.3
160°-170°	3.7	0.0
170°-180°	0.0	0.0
0°-30°	1157.4	9.5
0°-40°	2054.8	16.9
0°-60°	4484.6	36.9
0°-90°	8530.8	70.2
90°-120°	2665.2	21.9
90°-150°	3581.8	29.5
90°-180°	3626.0	29.8
0°-180°	12156.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1334	1334	1334	1334	1334	
5°	1395	1342	1275	1348	1395	135
15°	1567	1275	1312	1279	1567	448
25°	1800	1156	1449	1156	1800	837
35°	2024	986	1579	984	2024	1273
45°	2237	788	1715	786	2237	1734
55°	2433	575	1864	571	2433	2181
65°	2541	362	1947	358	2541	2517
75°	2500	168	1842	166	2500	2634
85°	2286	26	1561	30	2286	1893
90°	2152	0	1435	0	2152	1181
95°	2038	0	1330	0	2038	1642
105°	1820	0	1154	0	1820	1925
115°	1577	0	968	0	1577	1565
125°	1285	0	763	2	1285	1153
135°	951	0	542	2	951	738
145°	601	0	334	2	601	382
155°	288	0	144	2	288	138
165°	46	0	8	2	46	18
175°	0	0	0	2	0	0
180°	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°	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0
2.5°	1353.7	1353.5	1353.3	1353.0	1352.8	1352.6	1352.4	1352.1	1351.9	1351.7	1352.1
5°	1395.2	1393.7	1392.1	1390.6	1389.1	1387.5	1386.0	1384.5	1382.9	1381.4	1381.0
7.5°	1428.8	1426.8	1424.8	1422.9	1420.9	1418.9	1416.9	1415.0	1413.0	1411.0	1409.2
10°	1466.4	1463.5	1460.7	1457.8	1455.0	1452.1	1449.3	1446.4	1443.6	1440.7	1437.8
12.5°	1511.8	1508.1	1504.3	1500.6	1496.9	1493.1	1489.4	1485.7	1481.9	1478.2	1473.4
15°	1567.2	1562.4	1557.5	1552.7	1547.9	1543.0	1538.2	1533.4	1528.5	1523.7	1515.8
17.5°	1624.5	1619.2	1613.9	1608.7	1603.4	1598.1	1592.8	1587.6	1582.3	1577.0	1565.1
20°	1685.7	1678.9	1672.1	1665.3	1658.5	1651.7	1644.9	1638.1	1631.3	1624.5	1610.0
22.5°	1745.0	1737.1	1729.2	1721.3	1713.4	1705.5	1697.6	1689.7	1681.8	1673.9	1657.0
25°	1800.4	1791.8	1783.3	1774.7	1766.1	1757.6	1749.0	1740.4	1731.9	1723.3	1703.8
27.5°	1857.7	1848.0	1838.4	1828.7	1819.0	1809.4	1799.7	1790.0	1780.4	1770.7	1748.7
30°	1913.0	1902.5	1891.9	1881.4	1870.8	1860.3	1849.7	1839.2	1828.6	1818.1	1793.5
32.5°	1968.3	1956.7	1945.0	1933.4	1921.8	1910.1	1898.5	1886.9	1875.2	1863.6	1836.2
35°	2023.7	2011.0	1998.2	1985.5	1972.7	1960.0	1947.2	1934.5	1921.7	1909.0	1878.9
37.5°	2077.0	2063.2	2049.3	2035.5	2021.7	2007.8	1994.0	1980.2	1966.3	1952.5	1920.0
40°	2130.4	2115.5	2100.5	2085.6	2070.7	2055.7	2040.8	2025.9	2010.9	1996.0	1960.9
42.5°	2183.7	2167.7	2151.7	2135.6	2119.6	2103.6	2087.6	2071.5	2055.5	2039.5	2001.3
45°	2237.1	2219.8	2202.4	2185.1	2167.7	2150.4	2133.0	2115.7	2098.3	2081.0	2039.7
47.5°	2290.5	2271.6	2252.7	2233.8	2214.9	2196.1	2177.2	2158.3	2139.4	2120.5	2076.4
50°	2339.9	2320.1	2300.4	2280.6	2260.8	2241.1	2221.3	2201.5	2181.8	2162.0	2114.1
52.5°	2389.3	2368.0	2346.7	2325.4	2304.1	2282.8	2261.5	2240.2	2218.9	2197.6	2146.4
55°	2432.7	2410.7	2388.8	2366.8	2344.9	2322.9	2301.0	2279.0	2257.1	2235.1	2180.2
57.5°	2472.3	2449.5	2426.6	2403.8	2380.9	2358.1	2335.2	2312.4	2289.5	2266.7	2208.7
60°	2503.9	2480.4	2456.9	2433.4	2409.9	2386.4	2362.9	2339.4	2315.9	2292.4	2231.4
62.5°	2527.6	2503.4	2479.3	2455.1	2431.0	2406.8	2382.7	2358.5	2334.4	2310.2	2246.7
65°	2541.4	2517.0	2492.7	2468.3	2443.9	2419.6	2395.2	2370.8	2346.5	2322.1	2256.7
67.5°	2547.4	2522.8	2498.2	2473.6	2449.0	2424.4	2399.8	2375.2	2350.6	2326.0	2259.0
70°	2543.4	2518.8	2494.2	2469.6	2445.0	2420.5	2395.9	2371.3	2346.7	2322.1	2254.0
72.5°	2527.6	2502.8	2478.0	2453.2	2428.4	2403.5	2378.7	2353.9	2329.1	2304.3	2235.8
75°	2499.9	2475.8	2451.6	2427.5	2403.3	2379.2	2355.0	2330.9	2306.7	2282.6	2213.4
77.5°	2458.4	2434.5	2410.5	2386.6	2362.7	2338.7	2314.8	2290.9	2266.9	2243.0	2174.3
80°	2409.0	2384.8	2360.7	2336.5	2312.4	2288.2	2264.1	2239.9	2215.8	2191.6	2123.8
82.5°	2349.7	2326.2	2302.7	2279.2	2255.7	2232.3	2208.8	2185.3	2161.8	2138.3	2071.1
85°	2286.5	2263.2	2239.9	2216.7	2193.4	2170.1	2146.8	2123.6	2100.3	2077.0	2011.1
87.5°	2219.3	2196.5	2173.6	2150.8	2128.0	2105.1	2082.3	2059.5	2036.6	2013.8	1949.2
90°	2152.1	2129.7	2107.3	2084.9	2062.5	2040.1	2017.7	1995.3	1972.9	1950.5	1887.7
92.5°	2092.8	2071.1	2049.3	2027.6	2005.9	1984.1	1962.4	1940.7	1918.9	1897.2	1836.2
95°	2037.5	2016.4	1995.3	1974.3	1953.2	1932.1	1911.0	1890.0	1868.9	1847.8	1788.3
97.5°	1982.2	1961.6	1940.9	1920.3	1899.6	1879.0	1858.3	1837.7	1817.0	1796.4	1738.4
100°	1926.8	1906.6	1886.4	1866.2	1846.0	1825.8	1805.6	1785.4	1765.2	1745.0	1688.6
102.5°	1873.5	1853.7	1834.0	1814.2	1794.4	1774.7	1754.9	1735.1	1715.4	1695.6	1640.0
105°	1820.1	1800.8	1781.5	1762.1	1742.8	1723.5	1704.2	1684.8	1665.5	1646.2	1591.7
107.5°	1764.8	1745.7	1726.6	1707.5	1688.4	1669.2	1650.1	1631.0	1611.9	1592.8	1539.7
110°	1707.5	1688.6	1669.7	1650.8	1631.9	1613.1	1594.2	1575.3	1556.4	1537.5	1485.9



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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°	1642.3	1623.8	1605.4	1586.9	1568.5	1550.0	1531.6	1513.1	1494.7	1476.2	1426.4
115°	1577.0	1559.0	1541.0	1523.0	1505.0	1487.0	1469.0	1451.0	1433.0	1415.0	1366.9
117.5°	1507.9	1490.5	1473.2	1455.8	1438.5	1421.1	1403.8	1386.4	1369.1	1351.7	1304.9
120°	1436.7	1419.8	1402.9	1386.0	1369.1	1352.2	1335.3	1318.4	1301.5	1284.6	1239.6
122.5°	1361.6	1345.4	1329.1	1312.9	1296.6	1280.4	1264.1	1247.9	1231.6	1215.4	1172.1
125°	1284.6	1269.0	1253.4	1237.8	1222.2	1206.6	1191.0	1175.4	1159.8	1144.2	1102.5
127.5°	1203.5	1188.8	1174.1	1159.4	1144.7	1129.9	1115.2	1100.5	1085.8	1071.1	1030.9
130°	1120.5	1106.7	1092.8	1079.0	1065.2	1051.3	1037.5	1023.7	1009.8	996.0	957.4
132.5°	1037.5	1024.3	1011.2	998.0	984.8	971.7	958.5	945.3	932.2	919.0	882.3
135°	950.6	938.1	925.6	913.0	900.5	888.0	875.5	862.9	850.4	837.9	803.6
137.5°	859.7	848.1	836.4	824.8	813.1	801.5	789.8	778.2	766.5	754.9	723.3
140°	768.8	758.3	747.7	737.2	726.6	716.1	705.5	695.0	684.4	673.9	644.9
142.5°	681.8	672.6	663.4	654.1	644.9	635.7	626.5	617.2	608.0	598.8	571.6
145°	600.8	592.5	584.1	575.8	567.4	559.1	550.7	542.4	534.0	525.7	500.7
147.5°	521.7	513.6	505.5	497.3	489.2	481.1	473.0	464.8	456.7	448.6	426.6
150°	438.7	432.1	425.5	418.9	412.3	405.8	399.2	392.6	386.0	379.4	359.4
152.5°	361.7	356.0	350.3	344.6	338.9	333.1	327.4	321.7	316.0	310.3	292.9
155°	288.5	283.5	278.4	273.4	268.3	263.3	258.2	253.2	248.1	243.1	228.2
157.5°	217.4	213.2	209.0	204.9	200.7	196.5	192.3	188.2	184.0	179.8	167.5
160°	150.2	146.9	143.6	140.3	137.0	133.8	130.5	127.2	123.9	120.6	111.6
162.5°	90.9	88.7	86.5	84.3	82.1	79.9	77.7	75.5	73.3	71.1	65.2
165°	45.5	44.2	42.9	41.5	40.2	38.9	37.6	36.2	34.9	33.6	30.5
167.5°	13.8	13.4	12.9	12.5	12.1	11.6	11.2	10.8	10.3	9.9	8.8
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



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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°	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0
2.5°	1352.6	1353.0	1353.5	1353.9	1354.4	1354.8	1355.3	1355.7	1353.5	1351.3	1349.1
5°	1380.5	1380.1	1379.6	1379.2	1378.7	1378.3	1377.8	1377.4	1373.7	1369.9	1366.2
7.5°	1407.5	1405.7	1404.0	1402.2	1400.5	1398.7	1397.0	1395.2	1389.9	1384.7	1379.4
10°	1435.0	1432.1	1429.3	1426.4	1423.6	1420.7	1417.9	1415.0	1407.5	1400.1	1392.6
12.5°	1468.5	1463.7	1458.9	1454.0	1449.2	1444.4	1439.5	1434.7	1424.8	1414.9	1405.1
15°	1507.9	1500.0	1492.1	1484.1	1476.2	1468.3	1460.4	1452.5	1440.0	1427.5	1415.0
17.5°	1553.3	1541.4	1529.6	1517.7	1505.9	1494.0	1482.2	1470.3	1454.9	1439.6	1424.2
20°	1595.5	1581.0	1566.5	1552.0	1537.5	1523.0	1508.5	1494.0	1474.7	1455.4	1436.0
22.5°	1640.1	1623.2	1606.3	1589.3	1572.4	1555.5	1538.6	1521.7	1497.8	1473.8	1449.9
25°	1684.2	1664.7	1645.1	1625.6	1606.0	1586.5	1566.9	1547.4	1519.1	1490.8	1462.4
27.5°	1726.8	1704.8	1682.9	1660.9	1639.0	1617.0	1595.1	1573.1	1540.2	1507.2	1474.3
30°	1768.9	1744.3	1719.7	1695.2	1670.6	1646.0	1621.4	1596.8	1559.3	1521.7	1484.2
32.5°	1808.7	1781.3	1753.8	1726.4	1698.9	1671.5	1644.0	1616.6	1575.3	1534.0	1492.7
35°	1848.8	1818.8	1788.7	1758.6	1728.5	1698.5	1668.4	1638.3	1592.8	1547.4	1501.9
37.5°	1887.5	1855.0	1822.5	1790.0	1757.5	1725.0	1692.5	1660.0	1610.8	1561.6	1512.5
40°	1925.7	1890.6	1855.5	1820.3	1785.2	1750.1	1714.9	1679.8	1627.1	1574.4	1521.7
42.5°	1963.1	1924.9	1886.7	1848.4	1810.2	1772.0	1733.8	1695.6	1639.4	1583.2	1527.0
45°	1998.4	1957.1	1915.8	1874.6	1833.3	1792.0	1750.7	1709.4	1649.9	1590.4	1530.9
47.5°	2032.2	1988.1	1944.0	1899.8	1855.7	1811.6	1767.4	1723.3	1660.3	1597.3	1534.2
50°	2066.3	2018.4	1970.5	1922.7	1874.8	1826.9	1779.1	1731.2	1665.1	1599.0	1532.9
52.5°	2095.3	2044.1	1992.9	1941.8	1890.6	1839.4	1788.3	1737.1	1667.9	1598.8	1529.6
55°	2125.3	2070.4	2015.5	1960.7	1905.8	1850.9	1796.0	1741.1	1669.1	1597.1	1525.0
57.5°	2150.8	2092.8	2034.8	1976.9	1918.9	1860.9	1803.0	1745.0	1669.7	1594.4	1519.1
60°	2170.3	2109.3	2048.2	1987.2	1926.1	1865.1	1804.0	1743.0	1665.3	1587.6	1509.8
62.5°	2183.3	2119.8	2056.4	1992.9	1929.5	1866.0	1802.6	1739.1	1658.7	1578.4	1498.0
65°	2191.2	2125.8	2060.4	1994.9	1929.5	1864.1	1798.6	1733.2	1650.4	1567.6	1484.8
67.5°	2192.1	2125.1	2058.1	1991.2	1924.2	1857.2	1790.3	1723.3	1638.1	1552.9	1467.7
70°	2185.9	2117.9	2049.8	1981.7	1913.6	1845.6	1777.5	1709.4	1622.0	1534.6	1447.2
72.5°	2167.3	2098.8	2030.3	1961.7	1893.2	1824.7	1756.2	1687.7	1599.0	1510.3	1421.6
75°	2144.2	2075.1	2005.9	1936.7	1867.5	1798.4	1729.2	1660.0	1570.2	1480.4	1390.6
77.5°	2105.6	2036.8	1968.1	1899.4	1830.7	1761.9	1693.2	1624.5	1534.5	1444.4	1354.4
80°	2055.9	1988.1	1920.2	1852.4	1784.5	1716.7	1648.8	1581.0	1491.6	1402.3	1312.9
82.5°	2003.9	1936.7	1869.5	1802.4	1735.2	1668.0	1600.8	1533.6	1445.1	1356.6	1268.1
85°	1945.3	1879.4	1813.5	1747.7	1681.8	1615.9	1550.1	1484.2	1397.0	1309.8	1222.7
87.5°	1884.7	1820.1	1755.6	1691.0	1626.5	1561.9	1497.4	1432.8	1347.4	1262.0	1176.5
90°	1824.9	1762.1	1699.3	1636.5	1573.7	1510.9	1448.1	1385.3	1301.4	1217.5	1133.7
92.5°	1775.1	1714.1	1653.0	1592.0	1530.9	1469.9	1408.8	1347.8	1265.7	1183.6	1101.4
95°	1728.8	1669.3	1609.8	1550.2	1490.7	1431.2	1371.7	1312.2	1231.4	1150.6	1069.8
97.5°	1680.5	1622.5	1564.5	1506.6	1448.6	1390.6	1332.7	1274.7	1195.4	1116.2	1036.9
100°	1632.1	1575.7	1519.3	1462.8	1406.4	1350.0	1293.5	1237.1	1159.4	1081.6	1003.9
102.5°	1584.5	1528.9	1473.4	1417.8	1362.3	1306.7	1251.2	1195.6	1119.2	1042.8	966.4
105°	1537.3	1482.8	1428.4	1373.9	1319.5	1265.0	1210.6	1156.1	1080.8	1005.5	930.1
107.5°	1486.5	1433.4	1380.3	1327.1	1274.0	1220.9	1167.7	1114.6	1040.8	967.0	893.3
110°	1434.3	1382.7	1331.1	1279.5	1227.9	1176.3	1124.7	1073.1	1000.9	928.6	856.4



TEST NUMBER: P201408

CATALOG NUMBER: 8LBLED-LD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	1376.5	1326.7	1276.8	1227.0	1177.1	1127.3	1077.4	1027.6	957.1	886.6	816.2
115°	1318.8	1270.7	1222.6	1174.6	1126.5	1078.4	1030.3	982.2	913.5	844.7	776.0
117.5°	1258.2	1211.4	1164.6	1117.9	1071.1	1024.3	977.6	930.8	864.3	797.7	731.2
120°	1194.6	1149.5	1104.5	1059.5	1014.5	969.4	924.4	879.4	814.8	750.3	685.7
122.5°	1128.9	1085.6	1042.4	999.1	955.9	912.6	869.4	826.1	764.2	702.3	640.3
125°	1060.8	1019.1	977.4	935.6	893.9	852.2	810.5	768.8	710.2	651.5	592.9
127.5°	990.7	950.6	910.4	870.2	830.0	789.9	749.7	709.5	654.2	598.8	543.5
130°	918.7	880.1	841.4	802.8	764.1	725.5	686.8	648.2	596.6	545.0	493.4
132.5°	845.6	809.0	772.3	735.6	698.9	662.3	625.6	588.9	540.8	492.7	444.6
135°	769.4	735.1	700.9	666.6	632.4	598.1	563.9	529.6	485.2	440.9	396.5
137.5°	691.7	660.0	628.4	596.8	565.2	533.5	501.9	470.3	429.7	389.1	348.4
140°	615.9	586.9	557.9	529.0	500.0	471.0	442.0	413.0	376.3	339.7	303.0
142.5°	544.3	517.1	489.9	462.6	435.4	408.2	380.9	353.7	321.2	288.7	256.2
145°	475.6	450.6	425.6	400.5	375.5	350.5	325.4	300.4	271.9	243.3	214.8
147.5°	404.7	382.7	360.8	338.8	316.9	294.9	273.0	251.0	226.2	201.4	176.6
150°	339.4	319.5	299.5	279.5	259.5	239.6	219.6	199.6	179.2	158.8	138.3
152.5°	275.6	258.2	240.9	223.5	206.2	188.8	171.5	154.1	137.9	121.6	105.4
155°	213.2	198.3	183.4	168.4	153.5	138.6	123.6	108.7	97.1	85.4	73.8
157.5°	155.2	142.9	130.6	118.4	106.1	93.8	81.5	69.2	61.5	53.8	46.1
160°	102.6	93.6	84.6	75.5	66.5	57.5	48.5	39.5	35.1	30.7	26.3
162.5°	59.3	53.3	47.4	41.5	35.6	29.6	23.7	17.8	15.8	13.8	11.9
165°	27.4	24.4	21.3	18.2	15.1	12.1	9.0	5.9	5.2	4.6	3.9
167.5°	7.7	6.6	5.5	4.4	3.3	2.2	1.1	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: P201408

CATALOG NUMBER: 8LBLED-LD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0
2.5°	1346.9	1344.7	1342.5	1340.3	1338.1	1335.9	1337.0	1338.1	1339.2	1340.3	1341.4
5°	1362.5	1358.7	1355.0	1351.3	1347.5	1343.8	1343.6	1343.4	1343.2	1343.0	1342.7
7.5°	1374.1	1368.9	1363.6	1358.3	1353.1	1347.8	1345.8	1343.8	1341.9	1339.9	1337.9
10°	1385.1	1377.7	1370.2	1362.7	1355.3	1347.8	1344.5	1341.2	1337.9	1334.6	1331.4
12.5°	1395.2	1385.3	1375.4	1365.6	1355.7	1345.8	1340.5	1335.3	1330.0	1324.7	1319.5
15°	1402.5	1389.9	1377.4	1364.9	1352.4	1339.9	1332.7	1325.4	1318.2	1310.9	1303.7
17.5°	1408.8	1393.5	1378.1	1362.7	1347.4	1332.0	1323.2	1314.4	1305.6	1296.8	1288.1
20°	1416.7	1397.4	1378.1	1358.7	1339.4	1320.1	1309.1	1298.1	1287.2	1276.2	1265.2
22.5°	1426.0	1402.0	1378.1	1354.2	1330.2	1306.3	1293.6	1280.8	1268.1	1255.4	1242.6
25°	1434.1	1405.8	1377.5	1349.1	1320.8	1292.5	1277.3	1262.2	1247.0	1231.9	1216.7
27.5°	1441.3	1408.4	1375.4	1342.5	1309.5	1276.6	1259.0	1241.5	1223.9	1206.4	1188.8
30°	1446.6	1409.1	1371.5	1334.0	1296.4	1258.9	1238.5	1218.1	1197.6	1177.2	1156.8
32.5°	1451.4	1410.2	1368.9	1327.6	1286.3	1245.0	1221.3	1197.6	1173.9	1150.2	1126.4
35°	1456.5	1411.0	1365.6	1320.1	1274.7	1229.2	1202.2	1175.2	1148.2	1121.2	1094.1
37.5°	1463.3	1414.1	1364.9	1315.8	1266.6	1217.4	1186.4	1155.5	1124.5	1093.5	1062.6
40°	1469.0	1416.3	1363.6	1310.9	1258.2	1205.5	1170.4	1135.2	1100.1	1065.0	1029.8
42.5°	1470.8	1414.5	1358.3	1302.1	1245.9	1189.7	1150.6	1111.5	1072.4	1033.3	994.3
45°	1471.4	1411.9	1352.4	1292.9	1233.4	1173.9	1131.1	1088.3	1045.4	1002.6	959.8
47.5°	1471.2	1408.2	1345.2	1282.1	1219.1	1156.1	1109.3	1062.6	1015.8	969.0	922.3
50°	1466.8	1400.7	1334.6	1268.5	1202.4	1136.3	1085.8	1035.3	984.8	934.3	883.8
52.5°	1460.4	1391.3	1322.1	1252.9	1183.8	1114.6	1060.4	1006.1	951.9	897.7	843.4
55°	1453.0	1381.0	1309.0	1236.9	1164.9	1092.9	1035.4	977.8	920.3	862.8	805.2
57.5°	1443.8	1368.4	1293.1	1217.8	1142.5	1067.2	1006.6	946.0	885.4	824.8	764.1
60°	1432.1	1354.4	1276.7	1198.9	1121.2	1043.5	979.2	914.8	850.5	786.1	721.8
62.5°	1417.6	1337.3	1256.9	1176.5	1096.2	1015.8	948.6	881.4	814.2	747.0	679.9
65°	1402.0	1319.3	1236.5	1153.7	1070.9	988.1	918.5	848.9	779.3	709.7	640.1
67.5°	1382.5	1297.3	1212.1	1126.9	1041.7	956.5	884.7	812.9	741.1	669.3	597.5
70°	1359.8	1272.5	1185.1	1097.7	1010.3	922.9	849.3	775.8	702.2	628.7	555.1
72.5°	1332.9	1244.1	1155.4	1066.7	978.0	889.3	814.2	739.1	664.0	588.9	513.8
75°	1300.8	1211.0	1121.2	1031.4	941.6	851.8	775.8	699.8	623.9	547.9	471.9
77.5°	1264.4	1174.3	1084.3	994.3	904.2	814.2	737.6	660.9	584.3	507.7	431.0
80°	1223.5	1134.2	1044.8	955.4	866.1	776.7	700.1	623.4	546.8	470.2	393.5
82.5°	1179.6	1091.1	1002.6	914.1	825.6	737.1	661.1	585.2	509.2	433.2	357.3
85°	1135.5	1048.3	961.1	874.0	786.8	699.6	624.7	549.8	475.0	400.1	325.2
87.5°	1091.1	1005.7	920.3	834.8	749.4	664.0	590.9	517.8	444.6	371.5	298.4
90°	1049.8	965.9	882.0	798.2	714.3	630.4	560.4	490.3	420.3	350.2	280.2
92.5°	1019.3	937.2	855.1	772.9	690.8	608.7	541.1	473.4	405.8	338.2	270.5
95°	989.0	908.2	827.4	746.6	665.8	585.0	520.0	455.0	390.0	325.0	260.0
97.5°	957.6	878.4	799.1	719.8	640.6	561.3	498.9	436.6	374.2	311.8	249.5
100°	926.2	848.4	770.7	693.0	615.2	537.5	477.8	418.1	358.3	298.6	238.9
102.5°	890.0	813.5	737.1	660.7	584.3	507.9	451.5	395.0	338.6	282.2	225.7
105°	854.8	779.5	704.2	628.8	553.5	478.2	425.1	371.9	318.8	265.7	212.5
107.5°	819.5	745.7	671.9	598.2	524.4	450.6	400.5	350.5	300.4	250.3	200.3
110°	784.1	711.9	639.6	567.4	495.1	422.9	375.9	328.9	281.9	234.9	188.0



TEST NUMBER: P201408

CATALOG NUMBER: 8LBLED-LD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	745.7	675.2	604.7	534.3	463.8	393.3	349.6	305.9	262.2	218.5	174.8
115°	707.3	638.5	569.8	501.1	432.3	363.6	323.2	282.8	242.4	202.0	161.6
117.5°	664.7	598.1	531.6	465.1	398.5	332.0	295.1	258.2	221.3	184.4	147.6
120°	621.2	556.6	492.1	427.5	363.0	298.4	265.2	232.1	198.9	165.8	132.6
122.5°	578.4	516.5	454.6	392.6	330.7	268.8	238.9	209.1	179.2	149.3	119.5
125°	534.3	475.6	417.0	358.4	299.7	241.1	214.3	187.5	160.7	133.9	107.2
127.5°	488.2	432.8	377.5	322.2	266.8	211.5	188.0	164.5	141.0	117.5	94.0
130°	441.8	390.2	338.6	287.0	235.4	183.8	163.4	143.0	122.5	102.1	81.7
132.5°	396.5	348.5	300.4	252.3	204.2	156.1	138.8	121.4	104.1	86.7	69.4
135°	352.2	307.8	263.5	219.1	174.8	130.4	115.9	101.4	86.9	72.4	58.0
137.5°	307.8	267.2	226.6	185.9	145.3	104.7	93.1	81.4	69.8	58.2	46.5
140°	266.3	229.7	193.0	156.3	119.7	83.0	73.8	64.6	55.3	46.1	36.9
142.5°	223.7	191.3	158.8	126.3	93.8	61.3	54.5	47.7	40.9	34.1	27.2
145°	186.2	157.7	129.1	100.6	72.0	43.5	38.7	33.8	29.0	24.2	19.3
147.5°	151.8	126.9	102.1	77.3	52.5	27.7	24.6	21.5	18.5	15.4	12.3
150°	117.9	97.5	77.1	56.6	36.2	15.8	14.0	12.3	10.5	8.8	7.0
152.5°	89.1	72.9	56.6	40.4	24.1	7.9	7.0	6.1	5.3	4.4	3.5
155°	62.2	50.5	38.9	27.3	15.6	4.0	3.6	3.1	2.7	2.2	1.8
157.5°	38.4	30.8	23.1	15.4	7.7	0.0	0.0	0.0	0.0	0.0	0.0
160°	21.9	17.6	13.2	8.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	9.9	7.9	5.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	3.3	2.6	2.0	1.3	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: P201408

CATALOG NUMBER: 8LBLEDD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0
2.5°	1342.5	1343.6	1344.7	1345.8	1342.9	1340.1	1337.2	1334.4	1331.5	1328.7	1325.8
5°	1342.5	1342.3	1342.1	1341.9	1337.7	1333.5	1329.4	1325.2	1321.0	1316.8	1312.7
7.5°	1335.9	1334.0	1332.0	1330.0	1325.2	1320.3	1315.5	1310.7	1305.8	1301.0	1296.2
10°	1328.1	1324.8	1321.5	1318.2	1312.5	1306.8	1301.1	1295.4	1289.6	1283.9	1278.2
12.5°	1314.2	1308.9	1303.7	1298.4	1292.5	1286.5	1280.6	1274.7	1268.7	1262.8	1256.9
15°	1296.4	1289.2	1281.9	1274.7	1268.8	1262.8	1256.9	1251.0	1245.0	1239.1	1233.2
17.5°	1279.3	1270.5	1261.7	1252.9	1246.8	1240.6	1234.5	1228.3	1222.2	1216.0	1209.9
20°	1254.2	1243.3	1232.3	1221.3	1216.0	1210.8	1205.5	1200.2	1195.0	1189.7	1184.4
22.5°	1229.9	1217.2	1204.4	1191.7	1186.9	1182.0	1177.2	1172.4	1167.5	1162.7	1157.9
25°	1201.6	1186.4	1171.3	1156.1	1152.6	1149.1	1145.6	1142.1	1138.5	1135.0	1131.5
27.5°	1171.3	1153.7	1136.2	1118.6	1116.6	1114.6	1112.7	1110.7	1108.7	1106.7	1104.8
30°	1136.4	1115.9	1095.5	1075.1	1075.3	1075.5	1075.7	1075.9	1076.2	1076.4	1076.6
32.5°	1102.7	1079.0	1055.3	1031.6	1034.7	1037.8	1040.8	1043.9	1047.0	1050.1	1053.1
35°	1067.1	1040.1	1013.1	986.1	992.3	998.4	1004.6	1010.7	1016.9	1023.0	1029.2
37.5°	1031.6	1000.6	969.7	938.7	948.1	957.6	967.0	976.5	985.9	995.4	1004.8
40°	994.7	959.6	924.4	889.3	901.8	914.3	926.9	939.4	951.9	964.4	977.0
42.5°	955.2	916.1	877.0	837.9	853.7	869.5	885.3	901.1	917.0	932.8	948.6
45°	917.0	874.1	831.3	788.5	807.2	825.8	844.5	863.2	881.8	900.5	919.2
47.5°	875.5	828.7	782.0	735.2	757.2	779.1	801.1	823.0	845.0	866.9	888.9
50°	833.3	782.8	732.3	681.8	707.1	732.3	757.6	782.8	808.1	833.3	858.6
52.5°	789.2	735.0	680.7	626.5	654.8	683.1	711.5	739.8	768.1	796.4	824.8
55°	747.7	690.2	632.6	575.1	606.3	637.5	668.6	699.8	731.0	762.2	793.3
57.5°	703.5	642.9	582.3	521.7	555.7	589.8	623.8	657.8	691.9	725.9	759.9
60°	657.4	593.1	528.7	464.4	501.7	539.1	576.4	613.7	651.1	688.4	725.7
62.5°	612.7	545.5	478.3	411.1	451.1	491.0	531.0	570.9	610.9	650.8	690.8
65°	570.5	500.9	431.3	361.7	403.9	446.0	488.2	530.3	572.5	614.6	656.8
67.5°	525.7	453.9	382.1	310.3	354.2	398.1	442.0	485.9	529.9	573.8	617.7
70°	481.6	408.0	334.5	260.9	306.6	352.2	397.9	443.6	489.2	534.9	580.6
72.5°	438.7	363.6	288.5	213.4	260.2	307.0	353.7	400.5	447.3	494.1	540.8
75°	395.9	320.0	244.0	168.0	215.6	263.3	310.9	358.6	406.2	453.9	501.5
77.5°	354.4	277.8	201.1	124.5	172.8	221.1	269.4	317.7	366.1	414.4	462.7
80°	316.9	240.3	163.6	87.0	135.3	183.6	231.9	280.2	328.5	376.8	425.1
82.5°	281.3	205.3	129.4	53.4	100.8	148.2	195.7	243.1	290.5	337.9	385.4
85°	250.3	175.5	100.6	25.7	72.3	118.8	165.4	211.9	258.5	305.0	351.6
87.5°	225.3	152.1	79.0	5.9	51.4	96.8	142.3	187.7	233.2	278.6	324.1
90°	210.1	140.1	70.0	0.0	43.5	87.0	130.4	173.9	217.4	260.9	304.3
92.5°	202.9	135.3	67.6	0.0	41.5	83.0	124.5	166.0	207.5	249.0	290.5
95°	195.0	130.0	65.0	0.0	39.5	79.0	118.6	158.1	197.6	237.1	276.7
97.5°	187.1	124.7	62.4	0.0	37.3	74.7	112.0	149.3	186.7	224.0	261.3
100°	179.2	119.4	59.7	0.0	35.1	70.3	105.4	140.5	175.7	210.8	245.9
102.5°	169.3	112.9	56.4	0.0	32.9	65.9	98.8	131.7	164.7	197.6	230.5
105°	159.4	106.3	53.1	0.0	30.7	61.5	92.2	123.0	153.7	184.5	215.2
107.5°	150.2	100.1	50.1	0.0	28.5	57.1	85.6	114.2	142.7	171.3	199.8
110°	141.0	94.0	47.0	0.0	26.1	52.3	78.4	104.5	130.7	156.8	182.9



TEST NUMBER: P201408

CATALOG NUMBER: 8LBLED-LD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	131.1	87.4	43.7	0.0	23.9	47.9	71.8	95.7	119.7	143.6	167.5
115°	121.2	80.8	40.4	0.0	21.5	43.0	64.6	86.1	107.6	129.1	150.7
117.5°	110.7	73.8	36.9	0.0	19.3	38.6	58.0	77.3	96.6	115.9	135.3
120°	99.5	66.3	33.2	0.0	17.1	34.2	51.4	68.5	85.6	102.7	119.9
122.5°	89.6	59.7	29.9	0.0	14.9	29.9	44.8	59.7	74.7	89.6	104.5
125°	80.4	53.6	26.8	0.0	12.7	25.5	38.2	50.9	63.7	76.4	89.1
127.5°	70.5	47.0	23.5	0.0	10.3	20.6	31.0	41.3	51.6	61.9	72.3
130°	61.3	40.8	20.4	0.0	8.1	16.2	24.4	32.5	40.6	48.7	56.9
132.5°	52.0	34.7	17.3	0.0	6.1	12.3	18.4	24.6	30.7	36.9	43.0
135°	43.5	29.0	14.5	0.0	4.4	8.8	13.2	17.6	21.9	26.3	30.7
137.5°	34.9	23.3	11.6	0.0	3.1	6.2	9.2	12.3	15.4	18.5	21.5
140°	27.7	18.4	9.2	0.0	1.8	3.5	5.3	7.0	8.8	10.5	12.3
142.5°	20.4	13.6	6.8	0.0	0.9	1.8	2.6	3.5	4.4	5.3	6.1
145°	14.5	9.7	4.8	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1
147.5°	9.2	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	5.3	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.3	0.9	0.4	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: P201408

CATALOG NUMBER: 8LBLELD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0
2.5°	1323.0	1320.1	1318.8	1317.5	1316.2	1314.9	1313.5	1312.2	1310.9	1309.6	1308.3
5°	1308.5	1304.3	1303.0	1301.7	1300.4	1299.1	1297.7	1296.4	1295.1	1293.8	1292.5
7.5°	1291.3	1286.5	1284.7	1283.0	1281.2	1279.5	1277.7	1276.0	1274.2	1272.5	1270.7
10°	1272.5	1266.8	1265.7	1264.6	1263.5	1262.4	1261.3	1260.2	1259.1	1258.0	1256.9
12.5°	1250.9	1245.0	1245.0	1245.0	1245.0	1245.0	1245.0	1245.0	1245.0	1245.0	1245.0
15°	1227.2	1221.3	1223.3	1225.3	1227.2	1229.2	1231.2	1233.2	1235.1	1237.1	1239.1
17.5°	1203.7	1197.6	1202.4	1207.3	1212.1	1216.9	1221.8	1226.6	1231.4	1236.3	1241.1
20°	1179.2	1173.9	1182.7	1191.5	1200.2	1209.0	1217.8	1226.6	1235.3	1244.1	1252.9
22.5°	1153.0	1148.2	1161.4	1174.6	1187.7	1200.9	1214.1	1227.3	1240.4	1253.6	1266.8
25°	1128.0	1124.5	1141.8	1159.2	1176.5	1193.9	1211.2	1228.6	1245.9	1263.3	1280.6
27.5°	1102.8	1100.8	1121.9	1143.0	1164.0	1185.1	1206.2	1227.3	1248.3	1269.4	1290.5
30°	1076.8	1077.0	1101.6	1126.2	1150.8	1175.4	1200.0	1224.6	1249.2	1273.8	1298.4
32.5°	1056.2	1059.3	1086.5	1113.7	1141.0	1168.2	1195.4	1222.6	1249.9	1277.1	1304.3
35°	1035.3	1041.5	1071.4	1101.2	1131.1	1160.9	1190.8	1220.6	1250.5	1280.3	1310.2
37.5°	1014.3	1023.7	1056.0	1088.3	1120.5	1152.8	1185.1	1217.4	1249.6	1281.9	1314.2
40°	989.5	1002.0	1037.1	1072.3	1107.4	1142.5	1177.7	1212.8	1247.9	1283.1	1318.2
42.5°	964.4	980.2	1018.0	1055.7	1093.5	1131.3	1169.0	1206.8	1244.6	1282.3	1320.1
45°	937.8	956.5	996.9	1037.3	1077.7	1118.1	1158.5	1198.9	1239.3	1279.7	1320.1
47.5°	910.8	932.8	975.8	1018.9	1061.9	1104.9	1148.0	1191.0	1234.0	1277.1	1320.1
50°	883.8	909.1	954.6	1000.0	1045.5	1090.9	1136.4	1181.8	1227.3	1272.7	1318.2
52.5°	853.1	881.4	929.5	977.6	1025.7	1073.8	1121.8	1169.9	1218.0	1266.1	1314.2
55°	824.5	855.7	906.4	957.1	1007.9	1058.6	1109.3	1160.0	1210.8	1261.5	1312.2
57.5°	794.0	828.0	881.4	934.7	988.1	1041.5	1094.8	1148.2	1201.6	1254.9	1308.3
60°	763.1	800.4	856.4	912.4	968.4	1024.4	1080.3	1136.3	1192.3	1248.3	1304.3
62.5°	730.7	770.7	829.3	888.0	946.6	1005.2	1063.9	1122.5	1181.1	1239.8	1298.4
65°	698.9	741.1	802.1	863.2	924.2	985.3	1046.3	1107.4	1168.4	1229.5	1290.5
67.5°	661.6	705.5	769.4	833.3	897.2	961.1	1025.0	1088.9	1152.8	1216.7	1280.6
70°	626.2	671.9	737.6	803.2	868.9	934.5	1000.2	1065.8	1131.5	1197.1	1262.8
72.5°	587.6	634.4	700.9	767.5	834.0	900.5	967.1	1033.6	1100.1	1166.7	1233.2
75°	549.2	596.8	663.1	729.4	795.7	862.0	928.4	994.7	1061.0	1127.3	1193.6
77.5°	511.0	559.3	624.7	690.2	755.6	821.0	886.5	951.9	1017.3	1082.8	1148.2
80°	473.4	521.7	585.6	649.5	713.4	777.3	841.2	905.1	969.0	1032.9	1096.8
82.5°	432.8	480.2	542.6	604.9	667.3	729.7	792.0	854.4	916.8	979.1	1041.5
85°	398.1	444.7	505.3	565.9	626.5	687.1	747.7	808.3	868.9	929.5	990.1
87.5°	369.5	415.0	474.1	533.1	592.2	651.3	710.3	769.4	828.5	887.5	946.6
90°	347.8	391.3	448.4	505.5	562.6	619.7	676.7	733.8	790.9	848.0	905.1
92.5°	332.0	373.5	428.8	484.2	539.5	594.8	650.2	705.5	760.8	816.2	871.5
95°	316.2	355.7	409.5	463.3	517.1	570.9	624.7	678.5	732.3	786.1	839.9
97.5°	298.7	336.0	388.5	441.0	493.4	545.9	598.4	650.9	703.3	755.8	808.3
100°	281.1	316.2	367.6	419.0	470.3	521.7	573.1	624.5	675.8	727.2	778.6
102.5°	263.5	296.4	346.5	396.5	446.6	496.7	546.7	596.8	646.9	696.9	747.0
105°	246.0	276.7	325.4	374.2	422.9	471.7	520.4	569.2	617.9	666.7	715.4
107.5°	228.4	256.9	304.1	351.3	398.5	445.7	493.0	540.2	587.4	634.6	681.8
110°	209.1	235.2	281.1	327.0	372.9	418.8	464.6	510.5	556.4	602.3	648.2



TEST NUMBER: P201408

CATALOG NUMBER: 8LBLED-LD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	191.5	215.4	259.5	303.7	347.8	391.9	436.1	480.2	524.3	568.5	612.6
115°	172.2	193.7	236.5	279.3	322.1	364.9	407.8	450.6	493.4	536.2	579.0
117.5°	154.6	173.9	214.7	255.6	296.4	337.3	378.1	419.0	459.8	500.7	541.5
120°	137.0	154.1	193.4	232.7	272.0	311.3	350.7	390.0	429.3	468.6	507.9
122.5°	119.5	134.4	171.1	207.7	244.4	281.1	317.7	354.4	391.1	427.7	464.4
125°	101.9	114.6	149.1	183.6	218.0	252.5	287.0	321.5	355.9	390.4	424.9
127.5°	82.6	92.9	125.4	157.9	190.4	222.9	255.4	287.9	320.4	352.9	385.4
130°	65.0	73.1	102.5	131.9	161.4	190.8	220.2	249.6	279.1	308.5	337.9
132.5°	49.2	55.3	81.9	108.5	135.0	161.6	188.2	214.8	241.3	267.9	294.5
135°	35.1	39.5	63.0	86.5	110.0	133.5	157.0	180.5	204.0	227.5	251.0
137.5°	24.6	27.7	48.1	68.5	89.0	109.4	129.8	150.2	170.7	191.1	211.5
140°	14.0	15.8	33.6	51.4	69.2	87.0	104.7	122.5	140.3	158.1	175.9
142.5°	7.0	7.9	22.8	37.8	52.7	67.6	82.6	97.5	112.4	127.4	142.3
145°	3.6	4.0	15.9	27.7	39.6	51.4	63.3	75.1	87.0	98.8	110.7
147.5°	0.0	0.0	9.4	18.9	28.3	37.8	47.2	56.7	66.1	75.6	85.0
150°	0.0	0.0	6.6	13.2	19.8	26.4	32.9	39.5	46.1	52.7	59.3
152.5°	0.0	0.0	4.2	8.3	12.5	16.7	20.8	25.0	29.2	33.3	37.5
155°	0.0	0.0	2.2	4.4	6.6	8.8	11.0	13.2	15.4	17.6	19.8
157.5°	0.0	0.0	0.9	1.8	2.6	3.5	4.4	5.3	6.1	7.0	7.9
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: P201408

CATALOG NUMBER: 8LBLELD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0
2.5°	1307.4	1306.5	1305.7	1304.8	1303.9	1303.0	1302.2	1301.3	1300.4	1299.3	1298.2
5°	1291.0	1289.4	1287.9	1286.3	1284.8	1283.2	1281.7	1280.1	1278.6	1278.2	1277.7
7.5°	1270.0	1269.4	1268.7	1268.1	1267.4	1266.8	1266.1	1265.5	1264.8	1264.6	1264.4
10°	1257.3	1257.8	1258.2	1258.6	1259.1	1259.5	1259.9	1260.4	1260.8	1260.8	1260.8
12.5°	1247.4	1249.8	1252.3	1254.7	1257.1	1259.5	1262.0	1264.4	1266.8	1267.9	1269.0
15°	1244.8	1250.5	1256.2	1261.9	1267.7	1273.4	1279.1	1284.8	1290.5	1292.9	1295.3
17.5°	1250.1	1259.1	1268.1	1277.1	1286.1	1295.1	1304.1	1313.1	1322.1	1325.0	1327.8
20°	1263.9	1274.9	1285.8	1296.8	1307.8	1318.8	1329.7	1340.7	1351.7	1355.2	1358.7
22.5°	1279.1	1291.4	1303.7	1316.0	1328.2	1340.5	1352.8	1365.1	1377.4	1381.8	1386.2
25°	1294.4	1308.3	1322.1	1335.9	1349.8	1363.6	1377.4	1391.3	1405.1	1409.9	1414.8
27.5°	1305.9	1321.2	1336.6	1352.0	1367.3	1382.7	1398.1	1413.4	1428.8	1434.5	1440.2
30°	1315.5	1332.6	1349.8	1366.9	1384.0	1401.1	1418.3	1435.4	1452.5	1459.3	1466.1
32.5°	1323.6	1342.9	1362.3	1381.6	1400.9	1420.2	1439.6	1458.9	1478.2	1485.7	1493.1
35°	1331.5	1352.8	1374.1	1395.4	1416.7	1438.0	1459.3	1480.6	1501.9	1510.5	1519.0
37.5°	1337.3	1360.3	1383.4	1406.4	1429.5	1452.5	1475.6	1498.6	1521.7	1531.6	1541.5
40°	1343.4	1368.7	1393.9	1419.2	1444.4	1469.7	1494.9	1520.2	1545.4	1556.4	1567.4
42.5°	1347.8	1375.4	1403.1	1430.8	1458.4	1486.1	1513.8	1541.4	1569.1	1581.4	1593.7
45°	1350.6	1381.1	1411.7	1442.2	1472.7	1503.2	1533.8	1564.3	1594.8	1608.2	1621.6
47.5°	1353.3	1386.4	1419.6	1452.7	1485.9	1519.0	1552.2	1585.3	1618.5	1633.2	1647.9
50°	1354.4	1390.6	1426.9	1463.1	1499.3	1535.5	1571.8	1608.0	1644.2	1660.5	1676.7
52.5°	1353.7	1393.2	1432.8	1472.3	1511.8	1551.3	1590.9	1630.4	1669.9	1687.7	1705.5
55°	1354.6	1397.0	1439.3	1481.7	1524.1	1566.5	1608.8	1651.2	1693.6	1712.5	1731.4
57.5°	1354.0	1399.6	1445.3	1491.0	1536.6	1582.3	1628.0	1673.6	1719.3	1738.8	1758.4
60°	1352.6	1400.9	1449.2	1497.5	1545.9	1594.2	1642.5	1690.8	1739.1	1759.1	1779.1
62.5°	1348.9	1399.4	1449.9	1500.4	1550.9	1601.4	1651.9	1702.4	1752.9	1773.3	1793.7
65°	1342.8	1395.0	1447.3	1499.5	1551.8	1604.0	1656.3	1708.5	1760.8	1781.4	1802.1
67.5°	1333.7	1386.9	1440.0	1493.2	1546.3	1599.5	1652.6	1705.8	1758.9	1779.5	1800.2
70°	1316.4	1370.0	1423.5	1477.1	1530.7	1584.3	1637.8	1691.4	1745.0	1765.2	1785.4
72.5°	1286.6	1339.9	1393.3	1446.6	1500.0	1553.3	1606.7	1660.0	1713.4	1733.4	1753.4
75°	1246.3	1299.0	1351.7	1404.4	1457.1	1509.8	1562.5	1615.2	1667.9	1687.2	1706.6
77.5°	1199.6	1251.0	1302.3	1353.7	1405.1	1456.5	1507.8	1559.2	1610.6	1629.3	1647.9
80°	1146.4	1196.0	1245.7	1295.3	1344.9	1394.5	1444.2	1493.8	1543.4	1561.8	1580.3
82.5°	1089.4	1137.2	1185.1	1233.0	1280.8	1328.7	1376.6	1424.4	1472.3	1490.3	1508.3
85°	1036.2	1082.3	1128.4	1174.5	1220.7	1266.8	1312.9	1359.0	1405.1	1422.4	1439.8
87.5°	990.3	1034.0	1077.7	1121.4	1165.1	1208.8	1252.5	1296.2	1339.9	1357.2	1374.6
90°	947.5	989.9	1032.2	1074.6	1117.0	1159.4	1201.7	1244.1	1286.5	1303.0	1319.4
92.5°	912.3	953.2	994.0	1034.9	1075.7	1116.6	1157.4	1198.3	1239.1	1254.7	1270.3
95°	879.2	918.5	957.8	997.1	1036.4	1075.7	1115.0	1154.3	1193.6	1208.8	1223.9
97.5°	846.5	884.7	922.9	961.1	999.3	1037.5	1075.7	1113.9	1152.1	1166.6	1181.1
100°	815.7	852.8	889.9	927.0	964.2	1001.3	1038.4	1075.5	1112.6	1126.7	1140.7
102.5°	783.2	819.5	855.7	891.9	928.2	964.4	1000.6	1036.9	1073.1	1086.7	1100.3
105°	750.8	786.1	821.5	856.8	892.2	927.5	962.9	998.2	1033.6	1047.0	1060.4
107.5°	716.3	750.8	785.2	819.7	854.2	888.7	923.1	957.6	992.1	1005.3	1018.4
110°	681.6	715.0	748.3	781.7	815.1	848.5	881.8	915.2	948.6	961.6	974.5



TEST NUMBER: P201408

CATALOG NUMBER: 8LBLED-LD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	644.9	677.2	709.4	741.7	774.0	806.3	838.5	870.8	903.1	915.6	928.1
115°	610.0	640.9	671.9	702.9	733.8	764.8	795.8	826.7	857.7	870.0	882.3
117.5°	571.6	601.7	631.7	661.8	691.9	722.0	752.0	782.1	812.2	824.1	835.9
120°	536.7	565.4	594.2	623.0	651.7	680.5	709.3	738.0	766.8	777.6	788.3
122.5°	492.5	520.6	548.7	576.8	605.0	633.1	661.2	689.3	717.4	728.2	738.9
125°	452.1	479.3	506.6	533.8	561.0	588.2	615.5	642.7	669.9	680.2	690.5
127.5°	411.3	437.2	463.1	489.0	515.0	540.9	566.8	592.7	618.6	628.7	638.8
130°	363.6	389.3	415.0	440.7	466.4	492.1	517.8	543.5	569.2	578.9	588.5
132.5°	319.3	344.1	368.9	393.7	418.6	443.4	468.2	493.0	517.8	526.8	535.8
135°	274.5	298.0	321.5	345.0	368.4	391.9	415.4	438.9	462.4	471.2	480.0
137.5°	233.5	255.4	277.4	299.3	321.3	343.2	365.2	387.1	409.1	417.9	426.7
140°	195.7	215.4	235.2	254.9	274.7	294.4	314.2	333.9	353.7	362.5	371.3
142.5°	159.6	177.0	194.3	211.7	229.0	246.4	263.7	281.1	298.4	307.4	316.4
145°	125.8	141.0	156.1	171.3	186.4	201.6	216.7	231.9	247.0	256.7	266.3
147.5°	97.7	110.5	123.2	135.9	148.7	161.4	174.1	186.9	199.6	209.0	218.5
150°	69.8	80.4	90.9	101.4	112.0	122.5	133.0	143.6	154.1	163.1	172.1
152.5°	46.1	54.6	63.2	71.8	80.3	88.9	97.5	106.0	114.6	122.9	131.3
155°	26.4	33.0	39.5	46.1	52.7	59.3	65.8	72.4	79.0	86.3	93.5
157.5°	12.5	17.1	21.7	26.3	31.0	35.6	40.2	44.8	49.4	55.3	61.3
160°	2.6	5.3	7.9	10.5	13.2	15.8	18.4	21.1	23.7	28.1	32.5
162.5°	0.7	1.3	2.0	2.6	3.3	3.9	4.6	5.2	5.9	8.5	11.2
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: P201408

CATALOG NUMBER: 8LBLELD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0
2.5°	1297.1	1296.0	1294.9	1293.8	1292.7	1291.6	1290.5	1291.4	1292.3	1293.1	1294.0
5°	1277.3	1276.9	1276.4	1276.0	1275.6	1275.1	1274.7	1274.9	1275.1	1275.3	1275.5
7.5°	1264.1	1263.9	1263.7	1263.5	1263.2	1263.0	1262.8	1262.8	1262.8	1262.8	1262.8
10°	1260.8	1260.8	1260.8	1260.8	1260.8	1260.8	1260.8	1260.1	1259.5	1258.8	1258.2
12.5°	1270.1	1271.2	1272.2	1273.3	1274.4	1275.5	1276.6	1274.8	1273.1	1271.3	1269.6
15°	1297.7	1300.1	1302.6	1305.0	1307.4	1309.8	1312.2	1309.6	1306.9	1304.3	1301.7
17.5°	1330.7	1333.5	1336.4	1339.2	1342.1	1344.9	1347.8	1344.3	1340.8	1337.3	1333.8
20°	1362.3	1365.8	1369.3	1372.8	1376.4	1379.9	1383.4	1379.2	1375.0	1370.9	1366.7
22.5°	1390.6	1395.0	1399.4	1403.8	1408.2	1412.6	1417.0	1411.7	1406.4	1401.2	1395.9
25°	1419.6	1424.4	1429.3	1434.1	1438.9	1443.8	1448.6	1442.9	1437.2	1431.5	1425.8
27.5°	1445.9	1451.6	1457.4	1463.1	1468.8	1474.5	1480.2	1473.8	1467.5	1461.1	1454.7
30°	1472.9	1479.7	1486.6	1493.4	1500.2	1507.0	1513.8	1506.3	1498.9	1491.4	1483.9
32.5°	1500.6	1508.1	1515.5	1523.0	1530.5	1537.9	1545.4	1537.3	1529.2	1521.0	1512.9
35°	1527.6	1536.2	1544.7	1553.3	1561.9	1570.4	1579.0	1570.0	1561.0	1552.0	1543.0
37.5°	1551.3	1561.2	1571.1	1581.0	1590.8	1600.7	1610.6	1600.7	1590.8	1581.0	1571.1
40°	1578.3	1589.3	1600.3	1611.3	1622.2	1633.2	1644.2	1633.2	1622.2	1611.3	1600.3
42.5°	1606.0	1618.3	1630.6	1642.9	1655.2	1667.5	1679.8	1667.9	1656.1	1644.2	1632.4
45°	1635.0	1648.4	1661.8	1675.2	1688.6	1702.0	1715.4	1702.4	1689.5	1676.5	1663.6
47.5°	1662.6	1677.3	1692.1	1706.8	1721.5	1736.2	1750.9	1737.1	1723.2	1709.4	1695.6
50°	1693.0	1709.2	1725.5	1741.7	1758.0	1774.2	1790.5	1775.3	1760.2	1745.0	1729.9
52.5°	1723.3	1741.1	1758.8	1776.6	1794.4	1812.2	1830.0	1813.5	1797.1	1780.6	1764.1
55°	1750.3	1769.2	1788.0	1806.9	1825.8	1844.7	1863.6	1846.7	1829.8	1812.9	1796.0
57.5°	1777.9	1797.5	1817.0	1836.6	1856.1	1875.7	1895.2	1877.6	1860.1	1842.5	1824.9
60°	1799.0	1819.0	1839.0	1859.0	1878.9	1898.9	1918.9	1901.1	1883.3	1865.6	1847.8
62.5°	1814.2	1834.6	1855.0	1875.4	1895.9	1916.3	1936.7	1918.3	1899.8	1881.4	1862.9
65°	1822.7	1843.4	1864.0	1884.7	1905.3	1926.0	1946.6	1928.4	1910.2	1891.9	1873.7
67.5°	1820.8	1841.4	1862.1	1882.7	1903.3	1924.0	1944.6	1926.2	1907.7	1889.3	1870.8
70°	1805.6	1825.8	1846.0	1866.2	1886.4	1906.6	1926.8	1908.6	1890.4	1872.1	1853.9
72.5°	1773.3	1793.3	1813.3	1833.3	1853.2	1873.2	1893.2	1875.2	1857.2	1839.2	1821.2
75°	1725.9	1745.2	1764.6	1783.9	1803.2	1822.6	1841.9	1824.5	1807.2	1789.8	1772.5
77.5°	1666.6	1685.3	1703.9	1722.6	1741.3	1759.9	1778.6	1761.5	1744.4	1727.2	1710.1
80°	1598.7	1617.2	1635.6	1654.1	1672.5	1691.0	1709.4	1692.7	1676.0	1659.4	1642.7
82.5°	1526.3	1544.3	1562.3	1580.3	1598.3	1616.3	1634.3	1617.8	1601.4	1584.9	1568.4
85°	1457.1	1474.5	1491.8	1509.2	1526.5	1543.9	1561.2	1545.2	1529.2	1513.1	1497.1
87.5°	1391.9	1409.3	1426.6	1444.0	1461.3	1478.7	1496.0	1480.0	1463.9	1447.9	1431.9
90°	1335.9	1352.4	1368.8	1385.3	1401.8	1418.2	1434.7	1419.3	1404.0	1388.6	1373.2
92.5°	1285.9	1301.5	1317.0	1332.6	1348.2	1363.8	1379.4	1364.9	1350.4	1335.9	1321.4
95°	1239.1	1254.2	1269.4	1284.5	1299.7	1314.8	1330.0	1316.2	1302.3	1288.5	1274.7
97.5°	1195.6	1210.1	1224.6	1239.1	1253.6	1268.1	1282.6	1269.4	1256.2	1243.1	1229.9
100°	1154.8	1168.8	1182.9	1196.9	1211.0	1225.0	1239.1	1226.1	1213.2	1200.2	1187.3
102.5°	1113.9	1127.5	1141.2	1154.8	1168.4	1182.0	1195.6	1182.9	1170.1	1157.4	1144.7
105°	1073.8	1087.2	1100.5	1113.9	1127.3	1140.7	1154.1	1141.6	1129.1	1116.6	1104.1
107.5°	1031.6	1044.8	1057.9	1071.1	1084.3	1097.4	1110.6	1098.3	1086.0	1073.7	1061.4
110°	987.5	1000.4	1013.4	1026.3	1039.3	1052.2	1065.2	1053.1	1041.0	1029.0	1016.9



TEST NUMBER: P201408

CATALOG NUMBER: 8LBLED-LD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	940.7	953.2	965.7	978.2	990.8	1003.3	1015.8	1004.2	992.5	980.9	969.2
115°	894.6	906.9	919.2	931.5	943.8	956.1	968.4	957.0	945.6	934.1	922.7
117.5°	847.8	859.7	871.5	883.4	895.3	907.1	919.0	908.0	897.0	886.0	875.0
120°	799.1	809.8	820.6	831.3	842.1	852.8	863.6	853.5	843.4	833.3	823.2
122.5°	749.7	760.4	771.2	781.9	792.7	803.4	814.2	804.5	794.9	785.2	775.6
125°	700.9	711.2	721.5	731.8	742.2	752.5	762.8	753.4	743.9	734.5	725.0
127.5°	648.9	659.0	669.1	679.2	689.3	699.4	709.5	700.7	691.9	683.1	674.3
130°	598.2	607.8	617.5	627.1	636.8	646.4	656.1	647.5	639.0	630.4	621.8
132.5°	544.8	553.8	562.8	571.8	580.8	589.8	598.8	590.9	583.0	575.1	567.2
135°	488.8	497.6	506.3	515.1	523.9	532.7	541.5	534.0	526.6	519.1	511.6
137.5°	435.4	444.2	453.0	461.8	470.5	479.3	488.1	481.1	474.1	467.0	460.0
140°	380.1	388.9	397.6	406.4	415.2	424.0	432.8	426.9	420.9	415.0	409.1
142.5°	325.4	334.4	343.4	352.4	361.4	370.4	379.4	374.1	368.9	363.6	358.3
145°	276.0	285.7	295.3	305.0	314.7	324.3	334.0	328.7	323.5	318.2	312.9
147.5°	227.9	237.4	246.8	256.3	265.7	275.2	284.6	279.8	274.9	270.1	265.3
150°	181.1	190.1	199.2	208.2	217.2	226.2	235.2	231.2	227.3	223.3	219.4
152.5°	139.6	148.0	156.3	164.7	173.0	181.4	189.7	186.0	182.2	178.5	174.8
155°	100.8	108.0	115.3	122.5	129.8	137.0	144.3	141.2	138.1	135.1	132.0
157.5°	67.2	73.1	79.1	85.0	90.9	96.9	102.8	100.2	97.5	94.9	92.2
160°	36.9	41.3	45.6	50.0	54.4	58.8	63.2	61.4	59.7	57.9	56.2
162.5°	13.8	16.4	19.1	21.7	24.3	27.0	29.6	28.7	27.8	27.0	26.1
165°	2.6	3.5	4.4	5.3	6.1	7.0	7.9	7.9	7.9	7.9	7.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201408

CATALOG NUMBER: 8LBLELD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0
2.5°	1294.9	1295.8	1296.6	1297.5	1298.4	1300.6	1302.8	1305.0	1307.2	1309.4	1311.6
5°	1275.8	1276.0	1276.2	1276.4	1276.6	1279.0	1281.4	1283.9	1286.3	1288.7	1291.1
7.5°	1262.8	1262.8	1262.8	1262.8	1262.8	1264.3	1265.9	1267.4	1268.9	1270.5	1272.0
10°	1257.5	1256.9	1256.2	1255.6	1254.9	1256.0	1257.1	1258.2	1259.3	1260.4	1261.5
12.5°	1267.8	1266.1	1264.3	1262.6	1260.8	1260.1	1259.5	1258.8	1258.2	1257.5	1256.9
15°	1299.0	1296.4	1293.8	1291.1	1288.5	1284.1	1279.7	1275.3	1270.9	1266.6	1262.2
17.5°	1330.2	1326.7	1323.2	1319.7	1316.2	1309.0	1301.7	1294.5	1287.2	1280.0	1272.7
20°	1362.5	1358.3	1354.2	1350.0	1345.8	1336.8	1327.8	1318.8	1309.8	1300.8	1291.8
22.5°	1390.6	1385.3	1380.1	1374.8	1369.5	1359.2	1348.9	1338.5	1328.2	1317.9	1307.6
25°	1420.0	1414.3	1408.6	1402.9	1397.2	1385.1	1373.0	1361.0	1348.9	1336.8	1324.7
27.5°	1448.4	1442.0	1435.6	1429.3	1422.9	1409.1	1395.2	1381.4	1367.6	1353.7	1339.9
30°	1476.5	1469.0	1461.5	1454.1	1446.6	1430.8	1415.0	1399.2	1383.4	1367.5	1351.7
32.5°	1504.8	1496.7	1488.5	1480.4	1472.3	1454.1	1435.9	1417.6	1399.4	1381.2	1363.0
35°	1534.0	1525.0	1516.0	1507.0	1498.0	1477.6	1457.2	1436.7	1416.3	1395.9	1375.5
37.5°	1561.2	1551.3	1541.5	1531.6	1521.7	1499.5	1477.3	1455.2	1433.0	1410.8	1388.6
40°	1589.3	1578.3	1567.4	1556.4	1545.4	1521.0	1496.7	1472.3	1447.9	1423.6	1399.2
42.5°	1620.5	1608.7	1596.8	1585.0	1573.1	1546.1	1519.1	1492.1	1465.1	1438.0	1411.0
45°	1650.6	1637.7	1624.7	1611.8	1598.8	1569.4	1540.0	1510.5	1481.1	1451.7	1422.3
47.5°	1681.7	1667.9	1654.1	1640.2	1626.4	1593.9	1561.4	1528.9	1496.4	1464.0	1431.5
50°	1714.7	1699.6	1684.4	1669.3	1654.1	1618.5	1583.0	1547.4	1511.8	1476.3	1440.7
52.5°	1747.7	1731.2	1714.7	1698.3	1681.8	1642.9	1604.1	1565.2	1526.3	1487.5	1448.6
55°	1779.0	1762.1	1745.2	1728.3	1711.4	1669.2	1627.1	1584.9	1542.8	1500.6	1458.5
57.5°	1807.4	1789.8	1772.2	1754.7	1737.1	1691.9	1646.6	1601.4	1556.2	1510.9	1465.7
60°	1830.0	1812.2	1794.5	1776.7	1758.9	1710.8	1662.7	1614.6	1566.5	1518.5	1470.4
62.5°	1844.5	1826.0	1807.6	1789.1	1770.7	1720.6	1670.6	1620.5	1570.4	1520.4	1470.3
65°	1855.5	1837.3	1819.0	1800.8	1782.6	1730.6	1678.5	1626.5	1574.4	1522.4	1470.3
67.5°	1852.4	1833.9	1815.5	1797.0	1778.6	1725.7	1672.8	1619.8	1566.9	1514.0	1461.1
70°	1835.7	1817.5	1799.2	1781.0	1762.8	1709.4	1656.1	1602.7	1549.4	1496.0	1442.7
72.5°	1803.2	1785.2	1767.2	1749.2	1731.2	1678.3	1625.4	1572.4	1519.5	1466.6	1413.7
75°	1755.1	1737.8	1720.4	1703.1	1685.7	1633.4	1581.2	1528.9	1476.7	1424.4	1372.2
77.5°	1693.0	1675.9	1658.7	1641.6	1624.5	1574.0	1523.5	1473.0	1422.5	1371.9	1321.4
80°	1626.0	1609.3	1592.7	1576.0	1559.3	1510.1	1460.9	1411.7	1362.5	1313.4	1264.2
82.5°	1552.0	1535.5	1519.0	1502.6	1486.1	1438.7	1391.3	1343.8	1296.4	1249.0	1201.6
85°	1481.1	1465.1	1449.0	1433.0	1417.0	1371.3	1325.6	1280.0	1234.3	1188.6	1142.9
87.5°	1415.8	1399.8	1383.8	1367.7	1351.7	1307.8	1263.9	1220.0	1176.1	1132.1	1088.2
90°	1357.9	1342.5	1327.1	1311.8	1296.4	1254.5	1212.5	1170.6	1128.7	1086.7	1044.8
92.5°	1307.0	1292.5	1278.0	1263.5	1249.0	1208.6	1168.2	1127.8	1087.4	1047.0	1006.6
95°	1260.8	1247.0	1233.2	1219.3	1205.5	1166.4	1127.3	1088.2	1049.1	1010.1	971.0
97.5°	1216.7	1203.5	1190.4	1177.2	1164.0	1126.0	1088.0	1050.0	1012.0	974.1	936.1
100°	1174.3	1161.4	1148.4	1135.5	1122.5	1085.4	1048.3	1011.2	974.1	936.9	899.8
102.5°	1131.9	1119.2	1106.5	1093.7	1081.0	1045.0	1009.0	973.0	937.0	900.9	864.9
105°	1091.5	1079.0	1066.5	1054.0	1041.5	1006.1	970.8	935.4	900.1	864.7	829.4
107.5°	1049.2	1036.9	1024.6	1012.3	1000.0	965.7	931.5	897.2	863.0	828.7	794.5
110°	1004.8	992.7	980.7	968.6	956.5	923.6	890.6	857.7	824.8	791.8	758.9



TEST NUMBER: P201408

CATALOG NUMBER: 8LBLED-LD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	957.6	945.9	934.3	922.6	911.0	879.4	847.8	816.2	784.6	752.9	721.3
115°	911.3	899.9	888.4	877.0	865.6	835.3	805.0	774.7	744.4	714.1	683.8
117.5°	864.1	853.1	842.1	831.1	820.1	790.9	761.7	732.5	703.3	674.1	644.9
120°	813.1	803.0	792.9	782.8	772.7	744.6	716.5	688.4	660.3	632.2	604.1
122.5°	765.9	756.3	746.6	737.0	727.3	699.4	671.5	643.6	615.7	587.9	560.0
125°	715.6	706.1	696.7	687.2	677.8	651.2	624.7	598.1	571.5	545.0	518.4
127.5°	665.6	656.8	648.0	639.2	630.4	604.9	579.5	554.0	528.5	503.1	477.6
130°	613.3	604.7	596.1	587.6	579.0	555.7	532.5	509.2	485.9	462.7	439.4
132.5°	559.3	551.4	543.5	535.6	527.7	505.7	483.8	461.8	439.8	417.9	395.9
135°	504.2	496.7	489.2	481.8	474.3	454.3	434.3	414.4	394.4	374.4	354.4
137.5°	453.0	446.0	438.9	431.9	424.9	406.7	388.5	370.2	352.0	333.8	315.6
140°	403.1	397.2	391.3	385.3	379.4	362.1	344.7	327.4	310.0	292.7	275.3
142.5°	353.1	347.8	342.5	337.3	332.0	316.4	300.8	285.2	269.6	254.1	238.5
145°	307.7	302.4	297.1	291.9	286.6	272.3	258.0	243.8	229.5	215.2	200.9
147.5°	260.4	255.6	250.8	245.9	241.1	228.4	215.6	202.9	190.2	177.4	164.7
150°	215.4	211.5	207.5	203.6	199.6	188.2	176.8	165.3	153.9	142.5	131.1
152.5°	171.0	167.3	163.6	159.8	156.1	146.4	136.8	127.1	117.5	107.8	98.2
155°	128.9	125.8	122.8	119.7	116.6	108.5	100.4	92.2	84.1	76.0	67.9
157.5°	89.6	86.9	84.3	81.6	79.0	73.1	67.2	61.2	55.3	49.4	43.5
160°	54.4	52.7	50.9	49.2	47.4	43.5	39.5	35.6	31.6	27.7	23.7
162.5°	25.2	24.3	23.5	22.6	21.7	19.9	18.2	16.4	14.7	12.9	11.2
165°	7.9	7.9	7.9	7.9	7.9	7.2	6.6	5.9	5.3	4.6	4.0
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: P201408

CATALOG NUMBER: 8LBLELD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0
2.5°	1313.8	1316.0	1318.2	1318.6	1319.1	1319.5	1319.9	1320.4	1320.8	1321.2	1321.7
5°	1293.6	1296.0	1298.4	1299.3	1300.2	1301.0	1301.9	1302.8	1303.7	1304.5	1305.4
7.5°	1273.5	1275.1	1276.6	1277.7	1278.8	1279.9	1281.0	1282.1	1283.2	1284.3	1285.4
10°	1262.6	1263.7	1264.8	1265.0	1265.2	1265.5	1265.7	1265.9	1266.1	1266.4	1266.6
12.5°	1256.2	1255.6	1254.9	1253.8	1252.7	1251.6	1250.5	1249.4	1248.3	1247.2	1246.1
15°	1257.8	1253.4	1249.0	1245.9	1242.8	1239.8	1236.7	1233.6	1230.5	1227.5	1224.4
17.5°	1265.5	1258.2	1251.0	1244.8	1238.7	1232.5	1226.4	1220.2	1214.1	1207.9	1201.8
20°	1282.8	1273.8	1264.8	1254.5	1244.2	1233.8	1223.5	1213.2	1202.9	1192.5	1182.2
22.5°	1297.2	1286.9	1276.6	1262.1	1247.6	1233.1	1218.6	1204.2	1189.7	1175.2	1160.7
25°	1312.7	1300.6	1288.5	1270.1	1251.6	1233.2	1214.7	1196.3	1177.8	1159.4	1140.9
27.5°	1326.1	1312.2	1298.4	1276.2	1254.0	1231.9	1209.7	1187.5	1165.3	1143.2	1121.0
30°	1335.9	1320.1	1304.3	1279.0	1253.8	1228.5	1203.3	1178.0	1152.8	1127.5	1102.3
32.5°	1344.7	1326.5	1308.3	1280.6	1253.0	1225.3	1197.6	1170.0	1142.3	1114.6	1087.0
35°	1355.0	1334.6	1314.2	1284.1	1254.0	1224.0	1193.9	1163.8	1133.7	1103.7	1073.6
37.5°	1366.5	1344.3	1322.1	1289.2	1256.2	1223.3	1190.4	1157.4	1124.5	1091.6	1058.6
40°	1374.8	1350.5	1326.1	1290.7	1255.4	1220.0	1184.7	1149.3	1114.0	1078.6	1043.3
42.5°	1384.0	1357.0	1330.0	1292.0	1254.0	1216.0	1178.0	1140.1	1102.1	1064.1	1026.1
45°	1392.8	1363.4	1334.0	1293.2	1252.3	1211.5	1170.6	1129.8	1088.9	1048.1	1007.2
47.5°	1399.0	1366.5	1334.0	1290.7	1247.5	1204.2	1160.9	1117.7	1074.4	1031.1	987.9
50°	1405.1	1369.6	1334.0	1287.9	1241.8	1195.7	1149.6	1103.4	1057.3	1011.2	965.1
52.5°	1409.7	1370.9	1332.0	1283.5	1234.9	1186.4	1137.9	1089.3	1040.8	992.3	943.7
55°	1416.3	1374.2	1332.0	1280.6	1229.2	1177.8	1126.4	1075.1	1023.7	972.3	920.9
57.5°	1420.5	1375.2	1330.0	1276.0	1222.0	1168.0	1114.0	1059.9	1005.9	951.9	897.9
60°	1422.3	1374.2	1326.1	1269.7	1213.2	1156.8	1100.4	1043.9	987.5	931.1	874.6
62.5°	1420.2	1370.2	1320.1	1261.0	1202.0	1142.9	1083.8	1024.8	965.7	906.6	847.6
65°	1418.3	1366.2	1314.2	1252.3	1190.4	1128.4	1066.5	1004.6	942.7	880.7	818.8
67.5°	1408.1	1355.2	1302.3	1238.2	1174.1	1110.0	1045.9	981.7	917.6	853.5	789.4
70°	1389.3	1336.0	1282.6	1216.9	1151.3	1085.6	1020.0	954.3	888.7	823.0	757.4
72.5°	1360.7	1307.8	1254.9	1188.1	1121.4	1054.6	987.9	921.1	854.4	787.6	720.9
75°	1319.9	1267.7	1215.4	1148.9	1082.3	1015.8	949.3	882.7	816.2	749.7	683.1
77.5°	1270.9	1220.4	1169.9	1104.2	1038.6	972.9	907.3	841.6	776.0	710.3	644.7
80°	1215.0	1165.8	1116.6	1052.5	988.4	924.2	860.1	796.0	731.9	667.7	603.6
82.5°	1154.1	1106.7	1059.3	997.6	935.9	874.2	812.5	750.7	689.0	627.3	565.6
85°	1097.3	1051.6	1005.9	945.7	885.6	825.4	765.2	705.1	644.9	584.7	524.6
87.5°	1044.3	1000.4	956.5	898.5	840.6	782.6	724.6	666.7	608.7	550.7	492.8
90°	1002.9	960.9	919.0	862.6	806.1	749.7	693.3	636.8	580.4	524.0	467.5
92.5°	966.2	925.8	885.4	830.7	776.0	721.4	666.7	612.0	557.3	502.7	448.0
95°	931.9	892.8	853.7	800.6	747.4	694.3	641.2	588.0	534.9	481.8	428.6
97.5°	898.1	860.1	822.1	770.3	718.5	666.6	614.8	563.0	511.2	459.3	407.5
100°	862.7	825.6	788.5	738.2	687.9	637.7	587.4	537.1	486.8	436.6	386.3
102.5°	828.9	792.9	756.9	707.7	658.5	609.3	560.1	511.0	461.8	412.6	363.4
105°	794.0	758.7	723.3	675.7	628.0	580.4	532.7	485.1	437.4	389.8	342.1
107.5°	760.2	726.0	691.7	645.1	598.6	552.0	505.5	458.9	412.4	365.8	319.3
110°	726.0	693.0	660.1	614.9	569.6	524.4	479.2	433.9	388.7	343.5	298.2



TEST NUMBER: P201408

CATALOG NUMBER: 8LBLED-LD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	689.7	658.1	626.5	582.6	538.7	494.7	450.8	406.9	363.0	319.0	275.1
115°	653.5	623.2	592.9	550.5	508.1	465.8	423.4	381.0	338.6	296.3	253.9
117.5°	615.7	586.5	557.3	516.7	476.1	435.4	394.8	354.2	313.6	272.9	232.3
120°	576.0	547.9	519.8	481.1	442.5	403.8	365.2	326.5	287.9	249.2	210.6
122.5°	532.1	504.2	476.3	440.3	404.3	368.3	332.3	296.2	260.2	224.2	188.2
125°	491.8	465.3	438.7	404.7	370.6	336.6	302.6	268.5	234.5	200.5	166.4
127.5°	452.1	426.7	401.2	369.4	337.5	305.7	273.8	242.0	210.1	178.3	146.4
130°	416.1	392.9	369.6	339.3	309.0	278.7	248.4	218.0	187.7	157.4	127.1
132.5°	373.9	352.0	330.0	302.1	274.2	246.3	218.4	190.6	162.7	134.8	106.9
135°	334.5	314.5	294.5	268.8	243.1	217.4	191.7	166.0	140.3	114.6	88.9
137.5°	297.3	279.1	260.9	237.2	213.5	189.7	166.0	142.3	118.6	94.8	71.1
140°	258.0	240.6	223.3	202.2	181.1	160.1	139.0	117.9	96.8	75.8	54.7
142.5°	222.9	207.3	191.7	173.0	154.4	135.7	117.0	98.4	79.7	61.0	42.4
145°	186.7	172.4	158.1	142.3	126.5	110.7	94.9	79.0	63.2	47.4	31.6
147.5°	152.0	139.2	126.5	113.8	101.0	88.3	75.6	62.8	50.1	37.4	24.6
150°	119.6	108.2	96.8	86.9	77.0	67.2	57.3	47.4	37.5	27.7	17.8
152.5°	88.5	78.9	69.2	62.2	55.1	48.1	41.1	34.0	27.0	20.0	12.9
155°	59.7	51.6	43.5	39.1	34.7	30.3	25.9	21.6	17.2	12.8	8.4
157.5°	37.5	31.6	25.7	23.1	20.4	17.8	15.2	12.5	9.9	7.3	4.6
160°	19.8	15.8	11.9	10.8	9.7	8.6	7.5	6.4	5.3	4.2	3.1
162.5°	9.4	7.7	5.9	5.2	4.6	3.9	3.3	2.6	2.0	1.3	0.7
165°	3.3	2.7	2.0	1.8	1.6	1.3	1.1	0.9	0.7	0.4	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	0.4	0.7	0.9	1.1	1.3	1.6	1.8
175°	0.0	0.0	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8
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: P201408

CATALOG NUMBER: 8LBLELD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0
2.5°	1322.1	1325.6	1329.1	1332.6	1336.1	1339.7	1343.2	1346.7	1350.2	1353.7	1353.5
5°	1306.3	1310.9	1315.5	1320.1	1324.7	1329.4	1334.0	1338.6	1343.2	1347.8	1349.3
7.5°	1286.5	1292.0	1297.5	1303.0	1308.5	1313.9	1319.4	1324.9	1330.4	1335.9	1339.0
10°	1266.8	1272.9	1279.1	1285.2	1291.4	1297.5	1303.7	1309.8	1316.0	1322.1	1326.7
12.5°	1245.0	1251.4	1257.7	1264.1	1270.5	1276.8	1283.2	1289.6	1295.9	1302.3	1308.7
15°	1221.3	1227.7	1234.0	1240.4	1246.8	1253.1	1259.5	1265.9	1272.2	1278.6	1286.9
17.5°	1195.6	1202.2	1208.8	1215.4	1222.0	1228.5	1235.1	1241.7	1248.3	1254.9	1264.8
20°	1171.9	1177.8	1183.8	1189.7	1195.6	1201.6	1207.5	1213.4	1219.4	1225.3	1237.4
22.5°	1146.2	1151.3	1156.3	1161.4	1166.4	1171.5	1176.5	1181.6	1186.6	1191.7	1206.0
25°	1122.5	1126.2	1130.0	1133.7	1137.4	1141.2	1144.9	1148.6	1152.4	1156.1	1172.3
27.5°	1098.8	1101.0	1103.2	1105.4	1107.6	1109.8	1112.0	1114.2	1116.4	1118.6	1137.3
30°	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1098.5
32.5°	1059.3	1056.2	1053.1	1050.1	1047.0	1043.9	1040.8	1037.8	1034.7	1031.6	1056.2
35°	1043.5	1036.9	1030.3	1023.7	1017.1	1010.6	1004.0	997.4	990.8	984.2	1012.3
37.5°	1025.7	1015.8	1005.9	996.0	986.1	976.3	966.4	956.5	946.6	936.7	968.3
40°	1007.9	994.5	981.1	967.7	954.3	940.9	927.5	914.1	900.7	887.3	922.7
42.5°	988.1	971.4	954.7	938.0	921.3	904.7	888.0	871.3	854.6	837.9	877.0
45°	966.4	946.4	926.4	906.4	886.4	866.5	846.5	826.5	806.5	786.5	829.3
47.5°	944.6	920.9	897.2	873.5	849.8	826.0	802.3	778.6	754.9	731.2	778.0
50°	919.0	892.4	865.8	839.3	812.7	786.1	759.5	733.0	706.4	679.8	729.9
52.5°	895.2	865.1	835.0	805.0	774.9	744.8	714.7	684.7	654.6	624.5	678.3
55°	869.5	836.3	803.2	770.0	736.9	703.7	670.6	637.4	604.3	571.1	628.2
57.5°	843.9	807.9	771.9	735.9	699.9	663.8	627.8	591.8	555.8	519.8	579.7
60°	818.2	778.7	739.1	699.6	660.1	620.5	581.0	541.5	501.9	462.4	525.9
62.5°	788.5	746.3	704.2	662.0	619.9	577.7	535.6	493.4	451.3	409.1	475.0
65°	756.9	712.5	668.2	623.8	579.5	535.1	490.8	446.4	402.1	357.7	426.0
67.5°	725.3	679.0	632.6	586.3	540.0	493.6	447.3	401.0	354.6	308.3	378.6
70°	691.7	643.6	595.5	547.4	499.3	451.3	403.2	355.1	307.0	258.9	330.9
72.5°	654.1	604.9	555.7	506.6	457.4	408.2	359.0	309.9	260.7	211.5	284.8
75°	616.6	566.5	516.5	466.4	416.3	366.3	316.2	266.1	216.1	166.0	240.2
77.5°	579.0	528.5	478.0	427.5	377.0	326.5	276.0	225.5	175.0	124.5	199.2
80°	539.5	489.4	439.4	389.3	339.2	289.2	239.1	189.0	139.0	88.9	163.6
82.5°	503.9	454.1	404.2	354.4	304.5	254.7	204.8	155.0	105.1	55.3	129.1
85°	464.4	416.1	367.8	319.5	271.2	222.8	174.5	126.2	77.9	29.6	102.1
87.5°	434.8	387.6	340.4	293.2	246.0	198.7	151.5	104.3	57.1	9.9	80.6
90°	411.1	365.4	319.7	274.1	228.4	182.7	137.0	91.4	45.7	0.0	68.3
92.5°	393.3	349.6	305.9	262.2	218.5	174.8	131.1	87.4	43.7	0.0	65.4
95°	375.5	333.8	292.1	250.3	208.6	166.9	125.2	83.4	41.7	0.0	63.0
97.5°	355.7	316.2	276.7	237.1	197.6	158.1	118.6	79.0	39.5	0.0	60.2
100°	336.0	298.7	261.3	224.0	186.7	149.3	112.0	74.7	37.3	0.0	57.5
102.5°	314.2	279.3	244.4	209.5	174.6	139.6	104.7	69.8	34.9	0.0	54.0
105°	294.5	261.8	229.1	196.3	163.6	130.9	98.2	65.4	32.7	0.0	51.2
107.5°	272.7	242.4	212.1	181.8	151.5	121.2	90.9	60.6	30.3	0.0	48.3
110°	253.0	224.9	196.8	168.7	140.6	112.4	84.3	56.2	28.1	0.0	45.2



TEST NUMBER: P201408

CATALOG NUMBER: 8LBLED-LD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	231.2	205.5	179.8	154.1	128.4	102.8	77.1	51.4	25.7	0.0	42.2
115°	211.5	188.0	164.5	141.0	117.5	94.0	70.5	47.0	23.5	0.0	38.6
117.5°	191.7	170.6	149.5	128.5	107.4	86.3	65.2	44.2	23.1	2.0	37.1
120°	171.9	153.0	134.1	115.3	96.4	77.5	58.6	39.8	20.9	2.0	33.8
122.5°	152.2	135.3	118.4	101.5	84.6	67.6	50.7	33.8	16.9	0.0	28.8
125°	132.4	117.9	103.4	88.9	74.4	60.0	45.5	31.0	16.5	2.0	27.0
127.5°	114.6	102.1	89.6	77.1	64.6	52.0	39.5	27.0	14.5	2.0	23.1
130°	96.8	86.3	75.7	65.2	54.7	44.1	33.6	23.1	12.5	2.0	19.1
132.5°	79.0	70.4	61.9	53.3	44.8	36.2	27.7	19.1	10.6	2.0	15.8
135°	63.2	56.4	49.6	42.8	36.0	29.2	22.4	15.6	8.8	2.0	12.8
137.5°	47.4	42.4	37.3	32.3	27.2	22.2	17.1	12.1	7.0	2.0	10.1
140°	33.6	30.1	26.6	23.1	19.6	16.0	12.5	9.0	5.5	2.0	7.7
142.5°	23.7	21.3	18.9	16.5	14.1	11.6	9.2	6.8	4.4	2.0	5.9
145°	15.8	14.3	12.7	11.2	9.7	8.1	6.6	5.1	3.5	2.0	4.9
147.5°	11.9	10.8	9.7	8.6	7.5	6.4	5.3	4.2	3.1	2.0	3.8
150°	7.9	7.2	6.6	5.9	5.3	4.6	4.0	3.3	2.7	2.0	3.3
152.5°	5.9	5.5	5.0	4.6	4.2	3.7	3.3	2.9	2.4	2.0	2.9
155°	4.0	3.8	3.6	3.3	3.1	2.9	2.7	2.4	2.2	2.0	2.4
157.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2
160°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
162.5°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.0
165°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	1.8
167.5°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	1.8
170°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	1.8
172.5°	2.0	2.2	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	3.6
175°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.8
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: P201408

CATALOG NUMBER: 8LBLELD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0
2.5°	1353.3	1353.0	1352.8	1352.6	1352.4	1352.1	1351.9	1351.7	1352.8	1353.9	1355.0
5°	1350.9	1352.4	1353.9	1355.5	1357.0	1358.5	1360.1	1361.6	1364.0	1366.4	1368.9
7.5°	1342.1	1345.1	1348.2	1351.3	1354.4	1357.4	1360.5	1363.6	1367.6	1371.5	1375.5
10°	1331.3	1335.9	1340.5	1345.2	1349.8	1354.4	1359.0	1363.6	1369.3	1375.0	1380.7
12.5°	1315.1	1321.4	1327.8	1334.2	1340.6	1346.9	1353.3	1359.7	1367.8	1375.9	1384.1
15°	1295.3	1303.6	1312.0	1320.3	1328.7	1337.0	1345.4	1353.7	1364.5	1375.2	1386.0
17.5°	1274.7	1284.5	1294.4	1304.3	1314.2	1324.0	1333.9	1343.8	1357.6	1371.5	1385.3
20°	1249.5	1261.5	1273.6	1285.7	1297.8	1309.8	1321.9	1334.0	1351.6	1369.1	1386.7
22.5°	1220.2	1234.5	1248.8	1263.0	1277.3	1291.6	1305.8	1320.1	1342.7	1365.3	1388.0
25°	1188.6	1204.8	1221.1	1237.3	1253.6	1269.8	1286.1	1302.3	1330.0	1357.6	1385.3
27.5°	1155.9	1174.6	1193.2	1211.9	1230.5	1249.2	1267.8	1286.5	1319.0	1351.5	1384.0
30°	1120.0	1141.6	1163.1	1184.6	1206.1	1227.7	1249.2	1270.7	1307.6	1344.5	1381.4
32.5°	1080.8	1105.4	1130.0	1154.5	1179.1	1203.7	1228.3	1252.9	1294.2	1335.5	1376.8
35°	1040.4	1068.5	1096.6	1124.7	1152.8	1180.9	1209.0	1237.1	1282.1	1327.1	1372.2
37.5°	999.9	1031.6	1063.2	1094.8	1126.4	1158.1	1189.7	1221.3	1270.0	1318.8	1367.5
40°	958.0	993.4	1028.7	1064.1	1099.4	1134.8	1170.1	1205.5	1258.0	1310.5	1362.9
42.5°	916.1	955.2	994.3	1033.3	1072.4	1111.5	1150.6	1189.7	1245.5	1301.3	1357.0
45°	872.1	915.0	957.8	1000.6	1043.4	1086.3	1129.1	1171.9	1231.0	1290.0	1349.1
47.5°	824.7	871.5	918.3	965.0	1011.8	1058.6	1105.3	1152.1	1214.7	1277.3	1339.9
50°	779.9	830.0	880.1	930.1	980.2	1030.3	1080.3	1130.4	1196.1	1261.7	1327.4
52.5°	732.1	785.9	839.7	893.5	947.3	1001.1	1054.9	1108.7	1177.0	1245.3	1313.6
55°	685.3	742.4	799.5	856.6	913.7	970.8	1027.9	1085.0	1156.4	1227.7	1299.1
57.5°	639.7	699.6	759.6	819.5	879.5	939.4	999.4	1059.3	1133.5	1207.7	1281.9
60°	589.3	652.8	716.3	779.7	843.2	906.7	970.1	1033.6	1110.7	1187.7	1264.8
62.5°	540.9	606.7	672.6	738.5	804.4	870.2	936.1	1002.0	1081.9	1161.8	1241.8
65°	494.3	562.6	630.9	699.1	767.4	835.7	904.0	972.3	1054.6	1137.0	1219.3
67.5°	448.8	519.1	589.4	659.6	729.9	800.2	870.4	940.7	1025.7	1110.7	1195.6
70°	402.9	475.0	547.0	619.0	691.0	763.1	835.1	907.1	994.1	1081.0	1168.0
72.5°	358.2	431.5	504.8	578.2	651.5	724.8	798.2	871.5	959.6	1047.6	1135.7
75°	314.4	388.7	462.9	537.1	611.3	685.6	759.8	834.0	922.9	1011.8	1100.8
77.5°	273.8	348.5	423.1	497.8	572.4	647.1	721.7	796.4	885.3	974.3	1063.2
80°	238.2	312.9	387.6	462.2	536.9	611.6	686.2	760.9	848.9	937.0	1025.0
82.5°	202.9	276.7	350.5	424.2	498.0	571.8	645.6	719.4	807.0	894.6	982.2
85°	174.5	247.0	319.5	391.9	464.4	536.9	609.3	681.8	768.1	854.4	940.7
87.5°	151.3	222.0	292.7	363.4	434.1	504.8	575.5	646.2	730.7	815.3	899.8
90°	136.6	204.9	273.2	341.4	409.7	478.0	546.3	614.6	697.4	780.2	863.0
92.5°	130.9	196.3	261.7	327.2	392.6	458.0	523.5	588.9	670.4	751.8	833.3
95°	126.0	189.1	252.1	315.1	378.1	441.2	504.2	567.2	647.1	727.0	807.0
97.5°	120.3	180.5	240.7	300.8	361.0	421.2	481.3	541.5	620.3	699.2	778.0
100°	115.1	172.6	230.1	287.7	345.2	402.7	460.3	517.8	595.3	672.8	750.3
102.5°	108.0	162.1	216.1	270.1	324.1	378.2	432.2	486.2	562.8	639.5	716.1
105°	102.3	153.5	204.7	255.8	307.0	358.2	409.3	460.5	535.4	610.3	685.1
107.5°	96.6	144.9	193.2	241.6	289.9	338.2	386.5	434.8	508.1	581.5	654.8
110°	90.5	135.7	180.9	226.2	271.4	316.6	361.9	407.1	478.7	550.3	621.9



TEST NUMBER: P201408

CATALOG NUMBER: 8LBLED-LD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	84.3	126.5	168.6	210.8	252.9	295.1	337.2	379.4	448.8	518.2	587.6
115°	77.3	115.9	154.6	193.2	231.9	270.5	309.2	347.8	415.0	482.2	549.4
117.5°	72.3	107.4	142.5	177.7	212.8	247.9	283.1	318.2	383.2	448.2	513.2
120°	65.7	97.5	129.3	161.2	193.0	224.8	256.7	288.5	351.3	414.1	476.9
122.5°	57.5	86.3	115.1	143.8	172.6	201.4	230.1	258.9	319.1	379.2	439.4
125°	52.1	77.1	102.1	127.2	152.2	177.2	202.3	227.3	284.8	342.3	399.9
127.5°	44.2	65.2	86.3	107.4	128.5	149.5	170.6	191.7	245.9	300.2	354.4
130°	36.2	53.4	70.5	87.6	104.7	121.9	139.0	156.1	205.5	254.9	304.3
132.5°	29.7	43.5	57.3	71.2	85.0	98.8	112.7	126.5	170.9	215.2	259.6
135°	23.5	34.3	45.0	55.8	66.5	77.3	88.0	98.8	138.1	177.4	216.7
137.5°	18.2	26.4	34.5	42.6	50.7	58.9	67.0	75.1	110.0	144.9	179.8
140°	13.4	19.1	24.8	30.6	36.3	42.0	47.7	53.4	84.1	114.9	145.6
142.5°	9.9	13.8	17.8	21.7	25.7	29.6	33.6	37.5	63.9	90.2	116.6
145°	7.7	10.6	13.4	16.3	19.1	22.0	24.8	27.7	49.4	71.2	92.9
147.5°	5.5	7.3	9.0	10.8	12.5	14.3	16.0	17.8	35.8	53.8	71.8
150°	4.6	5.9	7.2	8.6	9.9	11.2	12.5	13.8	27.4	41.0	54.7
152.5°	3.8	4.6	5.5	6.4	7.3	8.1	9.0	9.9	19.8	29.7	39.5
155°	2.9	3.3	3.7	4.2	4.6	5.0	5.5	5.9	12.5	19.1	25.7
157.5°	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	7.9	11.9	15.8
160°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.2	6.4	8.6
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	3.3	4.0
165°	1.6	1.3	1.1	0.9	0.7	0.4	0.2	0.0	0.2	0.4	0.7
167.5°	1.6	1.3	1.1	0.9	0.7	0.4	0.2	0.0	0.0	0.0	0.0
170°	1.6	1.3	1.1	0.9	0.7	0.4	0.2	0.0	0.0	0.0	0.0
172.5°	3.1	2.7	2.2	1.8	1.3	0.9	0.4	0.0	0.0	0.0	0.0
175°	1.6	1.3	1.1	0.9	0.7	0.4	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: P201408

CATALOG NUMBER: 8LBLEDD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0
2.5°	1356.1	1357.2	1358.3	1359.4	1360.5	1361.6	1361.8	1362.0	1362.3	1362.5	1362.7
5°	1371.3	1373.7	1376.1	1378.6	1381.0	1383.4	1384.5	1385.6	1386.7	1387.8	1388.8
7.5°	1379.4	1383.4	1387.3	1391.3	1395.2	1399.2	1402.3	1405.3	1408.4	1411.5	1414.5
10°	1386.4	1392.2	1397.9	1403.6	1409.3	1415.0	1420.0	1425.1	1430.1	1435.2	1440.2
12.5°	1392.2	1400.3	1408.4	1416.6	1424.7	1432.8	1439.8	1446.8	1453.9	1460.9	1467.9
15°	1396.8	1407.5	1418.3	1429.1	1439.8	1450.6	1459.8	1469.0	1478.3	1487.5	1496.7
17.5°	1399.1	1413.0	1426.8	1440.6	1454.5	1468.3	1481.5	1494.7	1507.8	1521.0	1534.2
20°	1404.3	1421.8	1439.4	1457.0	1474.5	1492.1	1508.3	1524.6	1540.8	1557.1	1573.3
22.5°	1410.6	1433.2	1455.8	1478.5	1501.1	1523.7	1542.1	1560.6	1579.0	1597.5	1615.9
25°	1413.0	1440.6	1468.3	1496.0	1523.6	1551.3	1572.2	1593.0	1613.9	1634.8	1655.6
27.5°	1416.5	1449.0	1481.5	1514.0	1546.5	1579.0	1602.1	1625.1	1648.2	1671.2	1694.3
30°	1418.3	1455.1	1492.0	1528.9	1565.8	1602.7	1628.0	1653.2	1678.5	1703.7	1729.0
32.5°	1418.1	1459.3	1500.6	1541.9	1583.2	1624.5	1652.4	1680.3	1708.1	1736.0	1763.9
35°	1417.2	1462.2	1507.2	1552.3	1597.3	1642.3	1673.0	1703.8	1734.5	1765.2	1796.0
37.5°	1416.3	1465.0	1513.8	1562.5	1611.3	1660.0	1693.4	1726.8	1760.1	1793.5	1826.9
40°	1415.4	1467.9	1520.4	1572.8	1625.3	1677.8	1713.6	1749.4	1785.2	1821.0	1856.8
42.5°	1412.8	1468.6	1524.4	1580.1	1635.9	1691.7	1730.6	1769.4	1808.3	1847.2	1886.0
45°	1408.2	1467.2	1526.3	1585.4	1644.4	1703.5	1745.2	1786.9	1828.7	1870.4	1912.1
47.5°	1402.5	1465.0	1527.6	1590.2	1652.8	1715.4	1760.4	1805.4	1850.4	1895.4	1940.5
50°	1393.0	1458.7	1524.3	1590.0	1655.6	1721.3	1769.6	1817.9	1866.2	1914.5	1962.9
52.5°	1381.9	1450.1	1518.4	1586.7	1655.0	1723.3	1775.3	1827.4	1879.4	1931.4	1983.5
55°	1370.4	1441.8	1513.1	1584.5	1655.8	1727.2	1782.5	1837.9	1893.2	1948.5	2003.9
57.5°	1356.1	1430.4	1504.6	1578.8	1653.0	1727.2	1785.6	1844.0	1902.4	1960.8	2019.3
60°	1341.9	1418.9	1496.0	1573.1	1650.1	1727.2	1788.2	1849.3	1910.3	1971.4	2032.4
62.5°	1321.7	1401.6	1481.5	1561.5	1641.4	1721.3	1784.8	1848.2	1911.7	1975.1	2038.6
65°	1301.7	1384.0	1466.4	1548.7	1631.1	1713.4	1779.1	1844.7	1910.4	1976.0	2041.7
67.5°	1280.6	1365.6	1450.6	1535.5	1620.5	1705.5	1772.5	1839.4	1906.4	1973.4	2040.3
70°	1254.9	1341.9	1428.8	1515.8	1602.7	1689.7	1757.8	1825.8	1893.9	1962.0	2030.0
72.5°	1223.7	1311.8	1399.8	1487.9	1575.9	1664.0	1733.2	1802.3	1871.5	1940.7	2009.8
75°	1189.7	1278.6	1367.5	1456.5	1545.4	1634.3	1703.9	1773.5	1843.1	1912.7	1982.4
77.5°	1152.1	1241.1	1330.0	1418.9	1507.9	1596.8	1666.2	1735.6	1805.0	1874.4	1943.7
80°	1113.1	1201.1	1289.2	1377.2	1465.3	1553.3	1622.3	1691.2	1760.2	1829.1	1898.1
82.5°	1069.8	1157.5	1245.1	1332.7	1420.3	1507.9	1575.5	1643.2	1710.8	1778.4	1846.1
85°	1027.0	1113.3	1199.6	1285.9	1372.2	1458.5	1525.2	1592.0	1658.7	1725.5	1792.2
87.5°	984.4	1068.9	1153.5	1238.0	1322.6	1407.1	1472.3	1537.5	1602.7	1667.9	1733.2
90°	945.8	1028.5	1111.3	1194.1	1276.9	1359.7	1423.2	1486.6	1550.1	1613.5	1677.0
92.5°	914.8	996.2	1077.7	1159.2	1240.6	1322.1	1384.0	1445.9	1507.9	1569.8	1631.7
95°	886.9	966.8	1046.7	1126.7	1206.6	1286.5	1347.5	1408.6	1469.6	1530.7	1591.7
97.5°	856.8	935.7	1014.5	1093.3	1172.2	1251.0	1309.8	1368.7	1427.5	1486.4	1545.2
100°	827.8	905.4	982.9	1060.4	1137.9	1215.4	1272.9	1330.5	1388.0	1445.5	1503.1
102.5°	792.7	869.4	946.0	1022.6	1099.3	1175.9	1232.5	1289.2	1345.8	1402.5	1459.1
105°	760.0	834.9	909.8	984.6	1059.5	1134.4	1190.2	1245.9	1301.7	1357.5	1413.2
107.5°	728.1	801.5	874.8	948.1	1021.5	1094.8	1149.0	1203.3	1257.5	1311.8	1366.0
110°	693.5	765.0	836.6	908.2	979.8	1051.4	1104.5	1157.7	1210.8	1263.9	1317.1



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CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	657.0	726.3	795.7	865.1	934.5	1003.9	1055.7	1107.5	1159.4	1211.2	1263.0
115°	616.6	683.7	750.9	818.1	885.3	952.5	1003.4	1054.4	1105.3	1156.3	1207.2
117.5°	578.2	643.1	708.1	773.1	838.1	903.1	952.3	1001.5	1050.7	1099.9	1149.0
120°	539.7	602.5	665.3	728.1	790.9	853.7	900.9	948.1	995.3	1042.5	1089.8
122.5°	499.6	559.7	619.9	680.1	740.2	800.4	845.9	891.3	936.8	982.2	1027.7
125°	457.4	514.9	572.4	630.0	687.5	745.0	788.5	832.0	875.4	918.9	962.4
127.5°	408.6	462.9	517.1	571.3	625.6	679.8	722.2	764.6	806.9	849.3	891.7
130°	353.7	403.2	452.6	502.0	551.4	600.8	643.6	686.4	729.2	772.0	814.9
132.5°	303.9	348.3	392.6	437.0	481.3	525.7	568.1	610.5	652.8	695.2	737.6
135°	256.0	295.4	334.7	374.0	413.3	452.6	494.1	535.6	577.1	618.6	660.1
137.5°	214.7	249.7	284.6	319.5	354.4	389.3	427.9	466.6	505.2	543.9	582.5
140°	176.3	207.1	237.8	268.5	299.3	330.0	364.5	399.0	433.4	467.9	502.4
142.5°	142.9	169.3	195.6	222.0	248.3	274.7	305.0	335.3	365.6	395.9	426.2
145°	114.6	136.4	158.1	179.8	201.6	223.3	249.4	275.6	301.7	327.8	354.0
147.5°	89.8	107.8	125.8	143.8	161.8	179.8	201.8	223.7	245.7	267.7	289.6
150°	68.3	81.9	95.5	109.2	122.8	136.4	155.1	173.7	192.4	211.0	229.7
152.5°	49.4	59.3	69.2	79.0	88.9	98.8	114.2	129.5	144.9	160.3	175.6
155°	32.3	38.8	45.4	52.0	58.6	65.2	77.3	89.4	101.4	113.5	125.6
157.5°	19.8	23.7	27.7	31.6	35.6	39.5	48.5	57.5	66.5	75.5	84.6
160°	10.8	12.9	15.1	17.3	19.5	21.7	27.4	33.1	38.8	44.5	50.3
162.5°	4.6	5.3	5.9	6.6	7.2	7.9	11.2	14.5	17.8	21.1	24.3
165°	0.9	1.1	1.3	1.6	1.8	2.0	3.3	4.6	5.9	7.2	8.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.7	0.9	1.1
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: P201408

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CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0	1334.0
2.5°	1362.9	1363.2	1363.4	1363.6	1362.5	1361.4	1360.3	1359.2	1358.1	1357.0	1355.9
5°	1389.9	1391.0	1392.1	1393.2	1393.4	1393.6	1393.9	1394.1	1394.3	1394.5	1394.8
7.5°	1417.6	1420.7	1423.7	1426.8	1427.0	1427.2	1427.5	1427.7	1427.9	1428.1	1428.4
10°	1445.3	1450.3	1455.4	1460.4	1461.1	1461.7	1462.4	1463.1	1463.7	1464.4	1465.1
12.5°	1474.9	1482.0	1489.0	1496.0	1497.8	1499.5	1501.3	1503.0	1504.8	1506.5	1508.3
15°	1505.9	1515.2	1524.4	1533.6	1537.3	1541.1	1544.8	1548.5	1552.3	1556.0	1559.7
17.5°	1547.4	1560.5	1573.7	1586.9	1591.1	1595.3	1599.4	1603.6	1607.8	1612.0	1616.1
20°	1589.6	1605.8	1622.1	1638.3	1643.6	1648.8	1654.1	1659.4	1664.6	1669.9	1675.2
22.5°	1634.4	1652.8	1671.3	1689.7	1695.8	1702.0	1708.1	1714.3	1720.4	1726.6	1732.7
25°	1676.5	1697.4	1718.2	1739.1	1745.9	1752.7	1759.5	1766.3	1773.2	1780.0	1786.8
27.5°	1717.3	1740.4	1763.4	1786.5	1794.4	1802.3	1810.2	1818.1	1826.1	1834.0	1841.9
30°	1754.2	1779.5	1804.7	1830.0	1839.2	1848.4	1857.7	1866.9	1876.1	1885.3	1894.6
32.5°	1791.8	1819.6	1847.5	1875.4	1885.7	1896.0	1906.4	1916.7	1927.0	1937.3	1947.7
35°	1826.7	1857.4	1888.2	1918.9	1930.5	1942.2	1953.8	1965.5	1977.1	1988.8	2000.4
37.5°	1860.3	1893.6	1927.0	1960.4	1973.4	1986.3	1999.3	2012.2	2025.2	2038.1	2051.1
40°	1892.6	1928.4	1964.2	2000.0	2014.5	2029.0	2043.5	2058.0	2072.4	2086.9	2101.4
42.5°	1924.9	1963.8	2002.6	2041.5	2057.3	2073.1	2088.9	2104.7	2120.5	2136.3	2152.1
45°	1953.8	1995.6	2037.3	2079.0	2096.6	2114.1	2131.7	2149.3	2166.8	2184.4	2202.0
47.5°	1985.5	2030.5	2075.5	2120.5	2139.4	2158.3	2177.2	2196.1	2214.9	2233.8	2252.7
50°	2011.2	2059.5	2107.8	2156.1	2176.5	2196.9	2217.4	2237.8	2258.2	2278.6	2299.1
52.5°	2035.5	2087.5	2139.6	2191.6	2213.6	2235.5	2257.5	2279.5	2301.4	2323.4	2345.4
55°	2059.2	2114.5	2169.9	2225.2	2248.3	2271.3	2294.4	2317.4	2340.5	2363.5	2386.6
57.5°	2077.7	2136.1	2194.5	2252.9	2277.3	2301.7	2326.0	2350.4	2374.8	2399.2	2423.5
60°	2093.5	2154.5	2215.6	2276.6	2301.9	2327.1	2352.4	2377.6	2402.9	2428.1	2453.4
62.5°	2102.0	2165.5	2228.9	2292.4	2318.5	2344.7	2370.8	2396.9	2423.1	2449.2	2475.3
65°	2107.3	2173.0	2238.6	2304.3	2330.6	2357.0	2383.3	2409.7	2436.0	2462.4	2488.7
67.5°	2107.3	2174.3	2241.2	2308.2	2334.8	2361.4	2387.9	2414.5	2441.1	2467.7	2494.2
70°	2098.1	2166.2	2234.2	2302.3	2329.1	2355.9	2382.7	2409.5	2436.2	2463.0	2489.8
72.5°	2079.0	2148.2	2217.3	2286.5	2313.3	2340.1	2366.9	2393.7	2420.4	2447.2	2474.0
75°	2052.0	2121.6	2191.2	2260.8	2287.4	2313.9	2340.5	2367.1	2393.6	2420.2	2446.8
77.5°	2013.1	2082.5	2151.9	2221.3	2247.6	2274.0	2300.3	2326.7	2353.0	2379.4	2405.7
80°	1967.0	2036.0	2104.9	2173.9	2200.0	2226.1	2252.3	2278.4	2304.5	2330.6	2356.8
82.5°	1913.7	1981.3	2049.0	2116.6	2142.5	2168.4	2194.3	2220.2	2246.1	2272.0	2297.9
85°	1859.0	1925.7	1992.5	2059.2	2084.5	2109.7	2135.0	2160.2	2185.5	2210.7	2236.0
87.5°	1798.4	1863.6	1928.8	1994.0	2019.0	2044.1	2069.1	2094.1	2119.2	2144.2	2169.2
90°	1740.4	1803.9	1867.3	1930.8	1955.4	1980.0	2004.6	2029.2	2053.7	2078.3	2102.9
92.5°	1693.6	1755.6	1817.5	1879.4	1903.1	1926.8	1950.5	1974.2	1998.0	2021.7	2045.4
95°	1652.8	1713.8	1774.9	1835.9	1858.3	1880.7	1903.1	1925.5	1947.9	1970.3	1992.7
97.5°	1604.1	1662.9	1721.8	1780.6	1803.0	1825.4	1847.8	1870.2	1892.6	1915.0	1937.4
100°	1560.6	1618.1	1675.7	1733.2	1754.7	1776.2	1797.7	1819.2	1840.8	1862.3	1883.8
102.5°	1515.8	1572.4	1629.1	1685.7	1706.6	1727.4	1748.3	1769.2	1790.0	1810.9	1831.8
105°	1469.0	1524.8	1580.5	1636.3	1656.7	1677.1	1697.6	1718.0	1738.4	1758.8	1779.3
107.5°	1420.3	1474.5	1528.8	1583.0	1603.2	1623.4	1643.6	1663.8	1684.0	1704.2	1724.4
110°	1370.2	1423.3	1476.5	1529.6	1549.4	1569.1	1588.9	1608.7	1628.4	1648.2	1668.0



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CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1314.8	1366.7	1418.5	1470.3	1489.4	1508.5	1527.6	1546.7	1565.9	1585.0	1604.1
115°	1258.2	1309.1	1360.1	1411.0	1429.4	1447.9	1466.3	1484.8	1503.2	1521.7	1540.1
117.5°	1198.2	1247.4	1296.6	1345.8	1363.8	1381.8	1399.8	1417.8	1435.9	1453.9	1471.9
120°	1137.0	1184.2	1231.4	1278.6	1296.2	1313.7	1331.3	1348.9	1366.4	1384.0	1401.6
122.5°	1073.1	1118.6	1164.0	1209.5	1226.4	1243.3	1260.2	1277.1	1294.0	1310.9	1327.8
125°	1005.9	1049.3	1092.8	1136.3	1152.8	1169.3	1185.7	1202.2	1218.7	1235.2	1251.6
127.5°	934.1	976.4	1018.8	1061.2	1077.0	1092.8	1108.6	1124.4	1140.3	1156.1	1171.9
130°	857.7	900.5	943.3	986.1	1001.0	1016.0	1030.9	1045.8	1060.8	1075.7	1090.6
132.5°	780.0	822.3	864.7	907.1	921.6	936.1	950.6	965.1	979.5	994.0	1008.5
135°	701.6	743.1	784.6	826.1	839.9	853.8	867.6	881.4	895.3	909.1	922.9
137.5°	621.2	659.8	698.5	737.1	750.7	764.3	778.0	791.6	805.2	818.8	832.5
140°	536.9	571.3	605.8	640.3	654.6	668.9	683.1	697.4	711.7	726.0	740.2
142.5°	456.5	486.8	517.1	547.4	562.3	577.3	592.2	607.1	622.1	637.0	651.9
145°	380.1	406.2	432.4	458.5	474.3	490.1	505.9	521.7	537.6	553.4	569.2
147.5°	311.6	333.6	355.5	377.5	393.5	409.5	425.6	441.6	457.6	473.6	489.7
150°	248.3	267.0	285.6	304.3	319.2	334.2	349.1	364.0	379.0	393.9	408.8
152.5°	191.0	206.4	221.7	237.1	250.9	264.8	278.6	292.5	306.3	320.2	334.0
155°	137.7	149.7	161.8	173.9	186.6	199.4	212.1	224.8	237.6	250.3	263.0
157.5°	93.6	102.6	111.6	120.6	131.4	142.1	152.9	163.6	174.4	185.1	195.9
160°	56.0	61.7	67.4	73.1	81.7	90.2	98.8	107.4	115.9	124.5	133.1
162.5°	27.6	30.9	34.2	37.5	43.4	49.4	55.3	61.2	67.2	73.1	79.0
165°	9.9	11.2	12.5	13.8	17.3	20.8	24.4	27.9	31.4	34.9	38.5
167.5°	1.3	1.6	1.8	2.0	3.3	4.6	5.9	7.2	8.6	9.9	11.2
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: P201408

CATALOG NUMBER: 8LBLED-LD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1334.0	1334.0
2.5°	1354.8	1353.7
5°	1395.0	1395.2
7.5°	1428.6	1428.8
10°	1465.7	1466.4
12.5°	1510.0	1511.8
15°	1563.5	1567.2
17.5°	1620.3	1624.5
20°	1680.4	1685.7
22.5°	1738.9	1745.0
25°	1793.6	1800.4
27.5°	1849.8	1857.7
30°	1903.8	1913.0
32.5°	1958.0	1968.3
35°	2012.1	2023.7
37.5°	2064.0	2077.0
40°	2115.9	2130.4
42.5°	2167.9	2183.7
45°	2219.5	2237.1
47.5°	2271.6	2290.5
50°	2319.5	2339.9
52.5°	2367.3	2389.3
55°	2409.6	2432.7
57.5°	2447.9	2472.3
60°	2478.6	2503.9
62.5°	2501.5	2527.6
65°	2515.1	2541.4
67.5°	2520.8	2547.4
70°	2516.6	2543.4
72.5°	2500.8	2527.6
75°	2473.3	2499.9
77.5°	2432.1	2458.4
80°	2382.9	2409.0
82.5°	2323.8	2349.7
85°	2261.2	2286.5
87.5°	2194.3	2219.3
90°	2127.5	2152.1
92.5°	2069.1	2092.8
95°	2015.1	2037.5
97.5°	1959.8	1982.2
100°	1905.3	1926.8
102.5°	1852.6	1873.5
105°	1799.7	1820.1
107.5°	1744.6	1764.8
110°	1687.7	1707.5



TEST NUMBER: P201408

CATALOG NUMBER: 8LBLED-LD4-12-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1623.2	1642.3
115°	1558.6	1577.0
117.5°	1489.9	1507.9
120°	1419.1	1436.7
122.5°	1344.7	1361.6
125°	1268.1	1284.6
127.5°	1187.7	1203.5
130°	1105.6	1120.5
132.5°	1023.0	1037.5
135°	936.8	950.6
137.5°	846.1	859.7
140°	754.5	768.8
142.5°	666.9	681.8
145°	585.0	600.8
147.5°	505.7	521.7
150°	423.8	438.7
152.5°	347.9	361.7
155°	275.8	288.5
157.5°	206.6	217.4
160°	141.6	150.2
162.5°	85.0	90.9
165°	42.0	45.5
167.5°	12.5	13.8
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)