

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: P201412

Luminaire Tested: **8LBLED-LD4-14-ASYMW-UNV-L840-CD2-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P201412  
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: 8LBLELD4-14-ASYMW-UNV-L840-CD2-U  
Description: 8 ft. Low Bay Linear, 9000 lm, Wht Asym lens, 4K  
Light Source: (616) 4000K CCT, 80 CRI LEDS  
2UT217098A8404C, 2UT217056A8404B  
Ballast/Driver: OSRAM  
(OT85W01600CC), (OT50W0880CC)

**Summary**

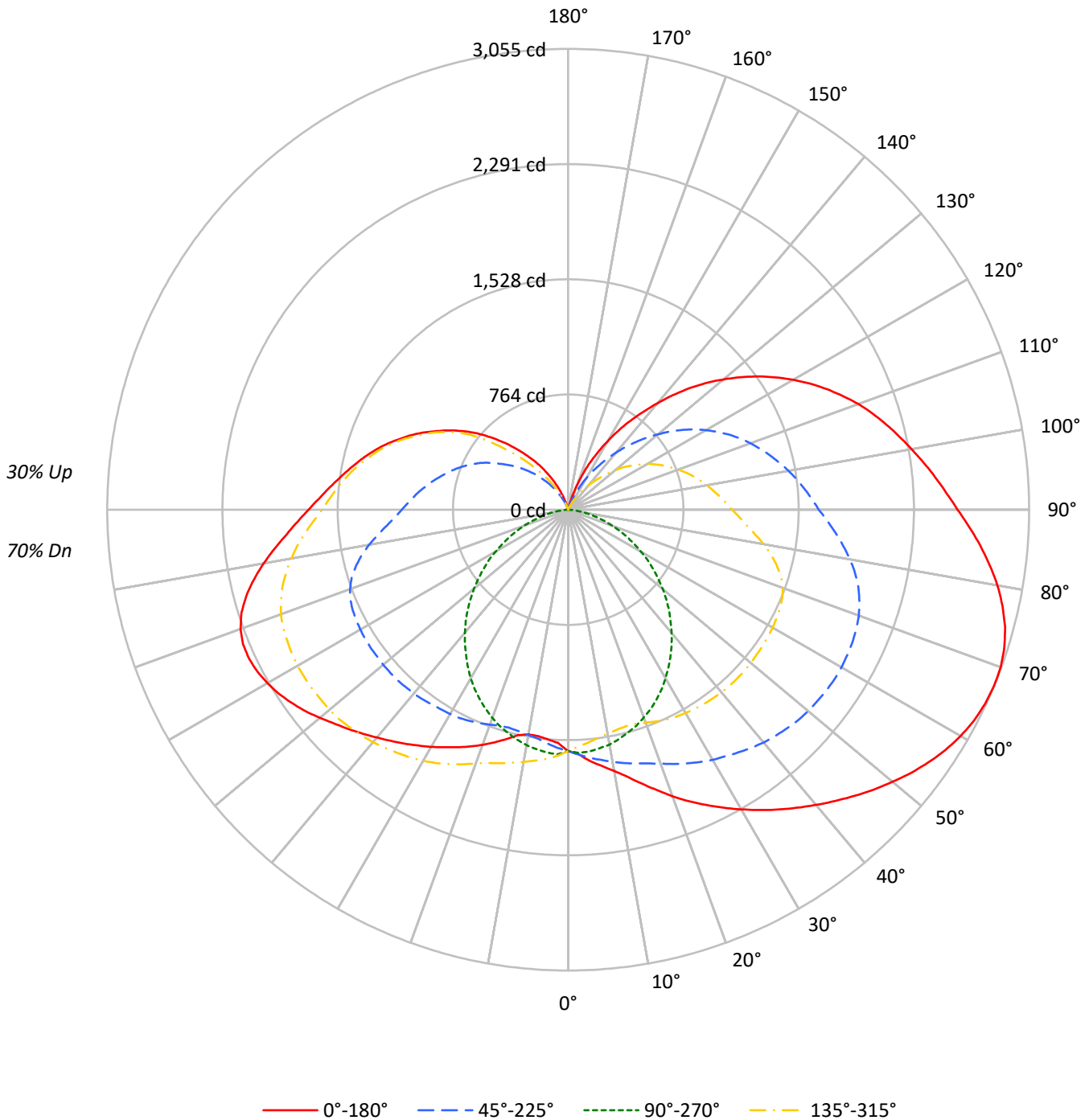
Lumens per Lamp: N/A  
Luminaire Lumens: 14577.6 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Spacing Criteria (0/90/45): 2.07 / 1.2 / 1.84  
Luminous Opening: Rectangular w/ Sides (W: 8' x L: 0.17' x H: 0.21')  
CIE Type: Semi-Direct  
  
Input Watts (W): 117.46  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	12888	12888	12888	12888
5°	12202	12984	11147	13042
10°	11795	12873	10142	12911
15°	11753	12661	9841	12701
20°	11926	12440	9787	12480
25°	12141	12177	9769	12177
30°	12414	11816	9824	11838
35°	12749	11424	9948	11400
40°	13138	10976	10140	10953
45°	13612	10501	10438	10475
50°	14157	9940	10833	9911
55°	14747	9340	11297	9276
60°	15324	8587	11744	8550
65°	15827	7831	12122	7745
70°	16248	6877	12309	6824
75°	16522	5715	12173	5650
80°	16622	4217	11795	4310
85°	16636	2195	11359	2530



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.8	1.0
10°-20°	460.2	3.2
20°-30°	775.0	5.3
30°-40°	1076.2	7.4
40°-50°	1347.1	9.2
50°-60°	1566.6	10.7
60°-70°	1697.8	11.6
70°-80°	1672.3	11.5
80°-90°	1481.9	10.2
90°-100°	1277.9	8.8
100°-110°	1075.9	7.4
110°-120°	842.2	5.8
120°-130°	590.2	4.0
130°-140°	348.5	2.4
140°-150°	160.5	1.1
150°-160°	48.1	0.3
160°-170°	4.4	0.0
170°-180°	0.0	0.0
0°-30°	1387.9	9.5
0°-40°	2464.1	16.9
0°-60°	5377.8	36.9
0°-90°	10229.8	70.2
90°-120°	3196.0	21.9
90°-150°	4295.2	29.5
90°-180°	4348.0	29.8
0°-180°	14577.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1600	1600	1600	1600	1600	
5°	1673	1609	1528	1616	1673	162
15°	1879	1528	1574	1533	1879	537
25°	2159	1386	1737	1386	2159	1003
35°	2427	1183	1894	1180	2427	1527
45°	2683	946	2057	943	2683	2080
55°	2917	690	2235	685	2917	2615
65°	3048	434	2334	429	3048	3018
75°	2998	201	2209	199	2998	3159
85°	2742	31	1872	36	2742	2270
90°	2581	0	1720	0	2581	1416
95°	2443	0	1595	0	2443	1969
105°	2183	0	1384	0	2183	2308
115°	1891	0	1161	0	1891	1877
125°	1540	0	915	2	1540	1383
135°	1140	0	649	2	1140	885
145°	720	0	400	2	720	458
155°	346	0	173	2	346	166
165°	54	0	10	2	54	22
175°	0	0	0	2	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6
2.5°	1623.3	1623.0	1622.8	1622.5	1622.3	1622.0	1621.8	1621.5	1621.3	1621.0	1621.5
5°	1673.1	1671.3	1669.4	1667.6	1665.7	1663.9	1662.0	1660.2	1658.3	1656.5	1656.0
7.5°	1713.4	1711.0	1708.7	1706.3	1703.9	1701.6	1699.2	1696.8	1694.5	1692.1	1690.0
10°	1758.4	1755.0	1751.6	1748.1	1744.7	1741.3	1737.9	1734.4	1731.0	1727.6	1724.2
12.5°	1812.9	1808.4	1803.9	1799.5	1795.0	1790.5	1786.0	1781.6	1777.1	1772.6	1766.8
15°	1879.3	1873.5	1867.7	1861.9	1856.1	1850.3	1844.5	1838.7	1832.9	1827.1	1817.6
17.5°	1948.0	1941.7	1935.4	1929.0	1922.7	1916.4	1910.1	1903.7	1897.4	1891.1	1876.9
20°	2021.5	2013.3	2005.2	1997.0	1988.8	1980.7	1972.5	1964.3	1956.2	1948.0	1930.6
22.5°	2092.6	2083.1	2073.6	2064.2	2054.7	2045.2	2035.7	2026.3	2016.8	2007.3	1987.0
25°	2158.9	2148.6	2138.4	2128.1	2117.8	2107.6	2097.3	2087.0	2076.8	2066.5	2043.1
27.5°	2227.7	2216.1	2204.5	2192.9	2181.3	2169.8	2158.2	2146.6	2135.0	2123.4	2097.1
30°	2294.0	2281.4	2268.7	2256.1	2243.5	2230.8	2218.2	2205.6	2192.9	2180.3	2150.8
32.5°	2360.4	2346.4	2332.5	2318.5	2304.6	2290.6	2276.7	2262.7	2248.8	2234.8	2201.9
35°	2426.7	2411.4	2396.2	2380.9	2365.6	2350.4	2335.1	2319.8	2304.6	2289.3	2253.2
37.5°	2490.7	2474.1	2457.5	2440.9	2424.3	2407.8	2391.2	2374.6	2358.0	2341.4	2302.4
40°	2554.7	2536.8	2518.9	2501.0	2483.1	2465.1	2447.2	2429.3	2411.4	2393.5	2351.4
42.5°	2618.7	2599.5	2580.3	2561.0	2541.8	2522.6	2503.4	2484.1	2464.9	2445.7	2399.9
45°	2682.7	2661.9	2641.1	2620.3	2599.5	2578.6	2557.8	2537.0	2516.2	2495.4	2445.9
47.5°	2746.6	2724.0	2701.3	2678.7	2656.0	2633.4	2610.7	2588.1	2565.4	2542.8	2489.9
50°	2805.9	2782.2	2758.5	2734.8	2711.1	2687.4	2663.7	2640.0	2616.3	2592.6	2535.2
52.5°	2865.1	2839.6	2814.0	2788.5	2763.0	2737.4	2711.9	2686.4	2660.8	2635.3	2573.9
55°	2917.3	2891.0	2864.6	2838.3	2812.0	2785.6	2759.3	2733.0	2706.6	2680.3	2614.5
57.5°	2964.7	2937.3	2909.9	2882.5	2855.1	2827.8	2800.4	2773.0	2745.6	2718.2	2648.7
60°	3002.6	2974.4	2946.2	2918.1	2889.9	2861.7	2833.5	2805.4	2777.2	2749.0	2675.8
62.5°	3031.0	3002.0	2973.1	2944.1	2915.1	2886.2	2857.2	2828.2	2799.3	2770.3	2694.2
65°	3047.6	3018.4	2989.2	2959.9	2930.7	2901.5	2872.3	2843.0	2813.8	2784.6	2706.1
67.5°	3054.7	3025.2	2995.7	2966.2	2936.7	2907.3	2877.8	2848.3	2818.8	2789.3	2709.0
70°	3050.0	3020.5	2991.0	2961.5	2932.0	2902.6	2873.1	2843.6	2814.1	2784.6	2703.0
72.5°	3031.0	3001.2	2971.5	2941.7	2912.0	2882.2	2852.5	2822.7	2793.0	2763.2	2681.0
75°	2997.9	2968.9	2940.0	2911.0	2882.0	2853.1	2824.1	2795.1	2766.2	2737.2	2654.3
77.5°	2948.1	2919.4	2890.7	2862.0	2833.3	2804.6	2775.9	2747.2	2718.5	2689.8	2607.4
80°	2888.8	2859.8	2830.9	2801.9	2773.0	2744.0	2715.1	2686.1	2657.2	2628.2	2546.8
82.5°	2817.7	2789.5	2761.4	2733.2	2705.0	2676.9	2648.7	2620.5	2592.4	2564.2	2483.6
85°	2741.9	2714.0	2686.1	2658.2	2630.3	2602.3	2574.4	2546.5	2518.6	2490.7	2411.7
87.5°	2661.3	2633.9	2606.5	2579.2	2551.8	2524.4	2497.0	2469.7	2442.3	2414.9	2337.5
90°	2580.8	2553.9	2527.1	2500.2	2473.3	2446.5	2419.6	2392.7	2365.9	2339.0	2263.7
92.5°	2509.7	2483.6	2457.6	2431.5	2405.4	2379.4	2353.3	2327.2	2301.2	2275.1	2201.9
95°	2443.3	2418.0	2392.7	2367.5	2342.2	2316.9	2291.6	2266.4	2241.1	2215.8	2144.4
97.5°	2377.0	2352.2	2327.5	2302.7	2278.0	2253.2	2228.5	2203.7	2179.0	2154.2	2084.7
100°	2310.6	2286.4	2262.2	2237.9	2213.7	2189.5	2165.3	2141.0	2116.8	2092.6	2024.9
102.5°	2246.6	2222.9	2199.2	2175.5	2151.8	2128.1	2104.4	2080.7	2057.0	2033.3	1966.7
105°	2182.6	2159.4	2136.3	2113.1	2089.9	2066.8	2043.6	2020.4	1997.3	1974.1	1908.8
107.5°	2116.3	2093.4	2070.5	2047.6	2024.7	2001.7	1978.8	1955.9	1933.0	1910.1	1846.4
110°	2047.5	2024.9	2002.2	1979.6	1956.9	1934.3	1911.6	1889.0	1866.3	1843.7	1781.8



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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°	1969.3	1947.2	1925.1	1903.0	1880.9	1858.7	1836.6	1814.5	1792.4	1770.3	1710.5
115°	1891.1	1869.5	1847.9	1826.3	1804.7	1783.2	1761.6	1740.0	1718.4	1696.8	1639.1
117.5°	1808.2	1787.4	1766.6	1745.8	1725.0	1704.2	1683.4	1662.6	1641.8	1621.0	1564.9
120°	1722.9	1702.6	1682.3	1662.1	1641.8	1621.5	1601.2	1581.0	1560.7	1540.4	1486.4
122.5°	1632.8	1613.3	1593.8	1574.4	1554.9	1535.4	1515.9	1496.5	1477.0	1457.5	1405.6
125°	1540.4	1521.7	1503.0	1484.3	1465.6	1446.9	1428.2	1409.5	1390.8	1372.1	1322.1
127.5°	1443.2	1425.6	1407.9	1390.3	1372.7	1355.0	1337.4	1319.8	1302.1	1284.5	1236.3
130°	1343.7	1327.1	1310.5	1293.9	1277.3	1260.8	1244.2	1227.6	1211.0	1194.4	1148.1
132.5°	1244.2	1228.4	1212.6	1196.8	1181.0	1165.2	1149.4	1133.6	1117.8	1102.0	1058.0
135°	1139.9	1124.9	1109.9	1094.9	1079.9	1064.8	1049.8	1034.8	1019.8	1004.8	963.7
137.5°	1030.9	1016.9	1003.0	989.0	975.1	961.1	947.2	933.2	919.3	905.3	867.4
140°	921.9	909.3	896.6	884.0	871.3	858.7	846.0	833.4	820.7	808.1	773.3
142.5°	817.6	806.5	795.5	784.4	773.4	762.3	751.3	740.2	729.2	718.1	685.4
145°	720.4	710.4	700.4	690.4	680.4	670.4	660.4	650.4	640.4	630.4	600.4
147.5°	625.6	615.9	606.1	596.4	586.7	576.9	567.2	557.5	547.7	538.0	511.7
150°	526.1	518.2	510.3	502.4	494.5	486.6	478.7	470.8	462.9	455.0	431.0
152.5°	433.7	426.9	420.0	413.2	406.3	399.5	392.6	385.8	378.9	372.1	351.3
155°	346.0	339.9	333.9	327.8	321.8	315.7	309.7	303.6	297.6	291.5	273.6
157.5°	260.7	255.7	250.7	245.7	240.7	235.7	230.7	225.7	220.7	215.7	200.9
160°	180.1	176.2	172.2	168.3	164.3	160.4	156.4	152.5	148.5	144.6	133.8
162.5°	109.0	106.4	103.7	101.1	98.5	95.8	93.2	90.6	87.9	85.3	78.2
165°	54.5	52.9	51.3	49.8	48.2	46.6	45.0	43.5	41.9	40.3	36.6
167.5°	16.6	16.1	15.5	15.0	14.5	13.9	13.4	12.9	12.3	11.8	10.5
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°	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6
2.5°	1622.0	1622.6	1623.1	1623.6	1624.1	1624.7	1625.2	1625.7	1623.1	1620.4	1617.8
5°	1655.5	1654.9	1654.4	1653.9	1653.4	1652.8	1652.3	1651.8	1647.3	1642.8	1638.4
7.5°	1687.9	1685.8	1683.7	1681.5	1679.4	1677.3	1675.2	1673.1	1666.8	1660.5	1654.1
10°	1720.8	1717.3	1713.9	1710.5	1707.1	1703.6	1700.2	1696.8	1687.8	1678.9	1669.9
12.5°	1761.0	1755.2	1749.4	1743.7	1737.9	1732.1	1726.3	1720.5	1708.7	1696.8	1685.0
15°	1808.1	1798.7	1789.2	1779.7	1770.2	1760.8	1751.3	1741.8	1726.8	1711.8	1696.8
17.5°	1862.7	1848.5	1834.3	1820.0	1805.8	1791.6	1777.4	1763.2	1744.8	1726.3	1707.9
20°	1913.2	1895.9	1878.5	1861.1	1843.7	1826.4	1809.0	1791.6	1768.4	1745.3	1722.1
22.5°	1966.7	1946.5	1926.2	1905.9	1885.6	1865.4	1845.1	1824.8	1796.1	1767.4	1738.7
25°	2019.6	1996.2	1972.8	1949.3	1925.9	1902.5	1879.0	1855.6	1821.6	1787.7	1753.7
27.5°	2070.7	2044.4	2018.1	1991.7	1965.4	1939.1	1912.7	1886.4	1846.9	1807.4	1767.9
30°	2121.3	2091.8	2062.3	2032.8	2003.3	1973.8	1944.3	1914.8	1869.8	1824.8	1779.7
32.5°	2169.0	2136.0	2103.1	2070.2	2037.3	2004.3	1971.4	1938.5	1889.0	1839.5	1790.0
35°	2217.1	2181.1	2145.0	2108.9	2072.8	2036.8	2000.7	1964.6	1910.1	1855.6	1801.1
37.5°	2263.5	2224.5	2185.5	2146.6	2107.6	2068.6	2029.7	1990.7	1931.7	1872.7	1813.7
40°	2309.3	2267.1	2225.0	2182.9	2140.8	2098.6	2056.5	2014.4	1951.2	1888.0	1824.8
42.5°	2354.1	2308.2	2262.4	2216.6	2170.8	2124.9	2079.1	2033.3	1965.9	1898.5	1831.1
45°	2396.4	2346.9	2297.4	2247.9	2198.4	2148.9	2099.4	2049.9	1978.5	1907.2	1835.8
47.5°	2437.0	2384.0	2331.1	2278.2	2225.3	2172.3	2119.4	2066.5	1990.9	1915.4	1839.8
50°	2477.8	2420.4	2363.0	2305.6	2248.2	2190.8	2133.4	2076.0	1996.7	1917.5	1838.2
52.5°	2512.6	2451.2	2389.9	2328.5	2267.2	2205.8	2144.5	2083.1	2000.2	1917.2	1834.3
55°	2548.6	2482.8	2417.0	2351.1	2285.3	2219.5	2153.6	2087.8	2001.4	1915.1	1828.7
57.5°	2579.2	2509.7	2440.2	2370.6	2301.1	2231.6	2162.1	2092.6	2002.3	1912.0	1821.6
60°	2602.6	2529.4	2456.2	2383.0	2309.8	2236.6	2163.4	2090.2	1997.0	1903.8	1810.6
62.5°	2618.1	2542.0	2465.9	2389.9	2313.8	2237.7	2161.6	2085.5	1989.1	1892.7	1796.4
65°	2627.7	2549.2	2470.7	2392.3	2313.8	2235.3	2156.9	2078.4	1979.1	1879.8	1780.6
67.5°	2628.7	2548.4	2468.1	2387.7	2307.4	2227.1	2146.8	2066.5	1964.3	1862.2	1760.0
70°	2621.3	2539.7	2458.1	2376.4	2294.8	2213.2	2131.5	2049.9	1945.1	1840.3	1735.5
72.5°	2598.9	2516.7	2434.6	2352.4	2270.3	2188.1	2106.0	2023.8	1917.4	1811.0	1704.7
75°	2571.3	2488.4	2405.4	2322.5	2239.5	2156.6	2073.6	1990.7	1883.0	1775.3	1667.6
77.5°	2525.0	2442.5	2360.1	2277.7	2195.3	2112.8	2030.4	1948.0	1840.0	1732.1	1624.1
80°	2465.5	2384.1	2302.7	2221.4	2140.0	2058.6	1977.3	1895.9	1788.7	1681.5	1574.4
82.5°	2403.0	2322.5	2241.9	2161.3	2080.7	2000.2	1919.6	1839.0	1732.9	1626.8	1520.7
85°	2332.7	2253.7	2174.7	2095.8	2016.8	1937.8	1858.8	1779.8	1675.3	1570.7	1466.2
87.5°	2260.1	2182.6	2105.2	2027.8	1950.4	1872.9	1795.5	1718.1	1615.7	1513.3	1410.8
90°	2188.4	2113.1	2037.8	1962.5	1887.2	1811.9	1736.6	1661.3	1560.7	1460.1	1359.5
92.5°	2128.7	2055.5	1982.3	1909.0	1835.8	1762.6	1689.4	1616.2	1517.7	1419.2	1320.8
95°	2073.1	2001.7	1930.4	1859.0	1787.7	1716.3	1645.0	1573.6	1476.7	1379.8	1282.9
97.5°	2015.2	1945.6	1876.1	1806.6	1737.1	1667.5	1598.0	1528.5	1433.4	1338.4	1243.3
100°	1957.2	1889.6	1821.9	1754.2	1686.5	1618.9	1551.2	1483.5	1390.3	1297.1	1203.9
102.5°	1900.1	1833.5	1766.9	1700.2	1633.6	1567.0	1500.4	1433.8	1342.2	1250.5	1158.9
105°	1843.5	1778.2	1712.9	1647.6	1582.3	1517.0	1451.7	1386.4	1296.1	1205.8	1115.4
107.5°	1782.7	1718.9	1655.2	1591.5	1527.8	1464.0	1400.3	1336.6	1248.1	1159.6	1071.2
110°	1719.9	1658.1	1596.2	1534.3	1472.4	1410.6	1348.7	1286.8	1200.2	1113.5	1026.9





TEST NUMBER: P201412

CATALOG NUMBER: 8LBLED-LD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	1650.7	1591.0	1531.2	1471.4	1411.6	1351.9	1292.1	1232.3	1147.8	1063.3	978.7
115°	1581.5	1523.8	1466.1	1408.5	1350.8	1293.1	1235.5	1177.8	1095.4	1013.0	930.6
117.5°	1508.8	1452.7	1396.6	1340.6	1284.5	1228.4	1172.3	1116.2	1036.4	956.6	876.8
120°	1432.4	1378.5	1324.5	1270.5	1216.5	1162.6	1108.6	1054.6	977.2	899.8	822.3
122.5°	1353.7	1301.9	1250.0	1198.1	1146.2	1094.4	1042.5	990.6	916.3	842.1	767.8
125°	1272.1	1222.0	1172.0	1122.0	1072.0	1021.9	971.9	921.9	851.6	781.3	711.0
127.5°	1188.1	1139.9	1091.7	1043.6	995.4	947.2	899.0	850.8	784.4	718.1	651.7
130°	1101.7	1055.4	1009.0	962.7	916.3	870.0	823.6	777.3	715.4	653.5	591.7
132.5°	1014.0	970.1	926.1	882.1	838.1	794.2	750.2	706.2	648.5	590.9	533.2
135°	922.6	881.6	840.5	799.4	758.3	717.3	676.2	635.1	581.9	528.7	475.5
137.5°	829.5	791.5	753.6	715.7	677.8	639.8	601.9	564.0	515.3	466.6	417.9
140°	738.6	703.8	669.1	634.3	599.6	564.8	530.1	495.3	451.3	407.3	363.4
142.5°	652.8	620.1	587.5	554.8	522.2	489.5	456.9	424.2	385.2	346.3	307.3
145°	570.4	540.3	510.3	480.3	450.3	420.2	390.2	360.2	326.0	291.7	257.5
147.5°	485.3	459.0	432.7	406.3	380.0	353.7	327.3	301.0	271.2	241.5	211.7
150°	407.1	383.1	359.2	335.2	311.3	287.3	263.4	239.4	214.9	190.4	165.9
152.5°	330.5	309.7	288.9	268.0	247.2	226.4	205.6	184.8	165.3	145.8	126.4
155°	255.7	237.8	219.9	201.9	184.0	166.1	148.2	130.3	116.3	102.4	88.4
157.5°	186.2	171.4	156.7	141.9	127.2	112.4	97.7	82.9	73.7	64.5	55.3
160°	123.0	112.2	101.4	90.6	79.8	69.0	58.2	47.4	42.1	36.9	31.6
162.5°	71.1	64.0	56.9	49.7	42.6	35.5	28.4	21.3	18.9	16.6	14.2
165°	32.9	29.2	25.5	21.9	18.2	14.5	10.8	7.1	6.3	5.5	4.7
167.5°	9.2	7.9	6.6	5.2	3.9	2.6	1.3	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: P201412

CATALOG NUMBER: 8LBLELD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6
2.5°	1615.2	1612.5	1609.9	1607.3	1604.6	1602.0	1603.3	1604.6	1606.0	1607.3	1608.6
5°	1633.9	1629.4	1624.9	1620.5	1616.0	1611.5	1611.2	1611.0	1610.7	1610.4	1610.2
7.5°	1647.8	1641.5	1635.2	1628.8	1622.5	1616.2	1613.8	1611.5	1609.1	1606.7	1604.4
10°	1661.0	1652.0	1643.1	1634.1	1625.2	1616.2	1612.3	1608.3	1604.4	1600.4	1596.5
12.5°	1673.1	1661.3	1649.4	1637.6	1625.7	1613.9	1607.6	1601.3	1594.9	1588.6	1582.3
15°	1681.8	1666.8	1651.8	1636.8	1621.8	1606.8	1598.1	1589.4	1580.7	1572.0	1563.3
17.5°	1689.5	1671.0	1652.6	1634.2	1615.7	1597.3	1586.8	1576.2	1565.7	1555.2	1544.6
20°	1698.9	1675.8	1652.6	1629.4	1606.3	1583.1	1569.9	1556.8	1543.6	1530.4	1517.3
22.5°	1710.0	1681.3	1652.6	1623.9	1595.2	1566.5	1551.2	1535.9	1520.7	1505.4	1490.1
25°	1719.7	1685.8	1651.8	1617.8	1583.9	1549.9	1531.7	1513.6	1495.4	1477.2	1459.1
27.5°	1728.4	1688.9	1649.4	1609.9	1570.4	1530.9	1509.8	1488.8	1467.7	1446.6	1425.6
30°	1734.7	1689.7	1644.7	1599.6	1554.6	1509.6	1485.1	1460.6	1436.1	1411.6	1387.2
32.5°	1740.5	1691.0	1641.5	1592.0	1542.5	1493.0	1464.6	1436.1	1407.7	1379.3	1350.8
35°	1746.6	1692.0	1637.5	1583.0	1528.5	1474.0	1441.6	1409.2	1376.9	1344.5	1312.1
37.5°	1754.7	1695.8	1636.8	1577.8	1518.8	1459.8	1422.7	1385.6	1348.4	1311.3	1274.2
40°	1761.6	1698.4	1635.2	1572.0	1508.8	1445.6	1403.5	1361.3	1319.2	1277.1	1234.9
42.5°	1763.7	1696.2	1628.8	1561.4	1494.0	1426.6	1379.7	1332.9	1286.0	1239.1	1192.3
45°	1764.5	1693.1	1621.8	1550.4	1479.1	1407.7	1356.4	1305.0	1253.7	1202.3	1151.0
47.5°	1764.2	1688.7	1613.1	1537.5	1462.0	1386.4	1330.3	1274.2	1218.1	1162.0	1106.0
50°	1759.0	1679.7	1600.5	1521.2	1442.0	1362.7	1302.1	1241.6	1181.0	1120.4	1059.9
52.5°	1751.3	1668.4	1585.4	1502.5	1419.5	1336.6	1271.6	1206.5	1141.5	1076.4	1011.4
55°	1742.3	1656.0	1569.6	1483.2	1396.9	1310.5	1241.5	1172.5	1103.5	1034.5	965.6
57.5°	1731.3	1641.0	1550.7	1460.3	1370.0	1279.7	1207.0	1134.3	1061.7	989.0	916.3
60°	1717.4	1624.1	1530.9	1437.7	1344.5	1251.3	1174.1	1097.0	1019.8	942.7	865.5
62.5°	1700.0	1603.6	1507.2	1410.9	1314.5	1218.1	1137.5	1056.9	976.4	895.8	815.2
65°	1681.3	1582.0	1482.7	1383.5	1284.2	1184.9	1101.4	1018.0	934.5	851.0	767.6
67.5°	1657.8	1555.7	1453.5	1351.3	1249.2	1147.0	1060.9	974.8	888.7	802.6	716.5
70°	1630.7	1525.9	1421.1	1316.3	1211.5	1106.7	1018.5	930.3	842.1	753.9	665.6
72.5°	1598.3	1491.9	1385.5	1279.2	1172.8	1066.4	976.3	886.3	796.2	706.2	616.1
75°	1559.9	1452.2	1344.5	1236.8	1129.1	1021.4	930.3	839.2	748.1	657.0	565.8
77.5°	1516.2	1408.2	1300.3	1192.3	1084.4	976.4	884.5	792.6	700.7	608.8	516.9
80°	1467.2	1360.0	1252.8	1145.7	1038.5	931.3	839.4	747.5	655.6	563.7	471.9
82.5°	1414.6	1308.4	1202.3	1096.2	990.1	884.0	792.9	701.8	610.7	519.6	428.4
85°	1361.6	1257.1	1152.5	1048.0	943.4	838.9	749.1	659.3	569.5	479.7	390.0
87.5°	1308.4	1206.0	1103.6	1001.1	898.7	796.3	708.6	620.9	533.2	445.5	357.9
90°	1258.9	1158.4	1057.8	957.2	856.6	756.0	672.0	588.0	504.0	420.0	336.0
92.5°	1222.3	1123.8	1025.3	926.9	828.4	729.9	648.8	567.7	486.6	405.5	324.4
95°	1186.0	1089.1	992.2	895.3	798.4	701.5	623.6	545.6	467.7	389.7	311.8
97.5°	1148.3	1053.2	958.2	863.1	768.1	673.0	598.2	523.4	448.7	373.9	299.1
100°	1110.7	1017.4	924.2	831.0	737.8	644.6	573.0	501.4	429.7	358.1	286.5
102.5°	1067.2	975.6	883.9	792.3	700.6	609.0	541.3	473.7	406.0	338.3	270.7
105°	1025.1	934.8	844.5	754.1	663.8	573.5	509.8	446.1	382.3	318.6	254.9
107.5°	982.7	894.2	805.7	717.3	628.8	540.3	480.3	420.2	360.2	300.2	240.1
110°	940.3	853.6	767.0	680.4	593.7	507.1	450.8	394.4	338.1	281.7	225.4



TEST NUMBER: P201412

CATALOG NUMBER: 8LBLED-LD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	894.2	809.7	725.2	640.6	556.1	471.6	419.2	366.8	314.4	262.0	209.6
115°	848.2	765.7	683.3	600.9	518.5	436.1	387.6	339.2	290.7	242.3	193.8
117.5°	797.0	717.3	637.5	557.7	477.9	398.1	353.9	309.6	265.4	221.2	176.9
120°	744.9	667.5	590.1	512.6	435.2	357.8	318.0	278.3	238.5	198.8	159.0
122.5°	693.6	619.3	545.1	470.8	396.6	322.3	286.5	250.7	214.9	179.1	143.2
125°	640.7	570.3	500.0	429.7	359.4	289.1	257.0	224.9	192.7	160.6	128.5
127.5°	585.4	519.0	452.7	386.3	320.0	253.6	225.4	197.2	169.1	140.9	112.7
130°	529.8	467.9	406.0	344.2	282.3	220.4	195.9	171.4	146.9	122.4	98.0
132.5°	475.5	417.9	360.2	302.5	244.9	187.2	166.4	145.6	124.8	104.0	83.2
135°	422.3	369.2	316.0	262.8	209.6	156.4	139.0	121.6	104.3	86.9	69.5
137.5°	369.2	320.4	271.7	223.0	174.3	125.6	111.6	97.7	83.7	69.8	55.8
140°	319.4	275.4	231.4	187.5	143.5	99.5	88.4	77.4	66.3	55.3	44.2
142.5°	268.3	229.4	190.4	151.4	112.5	73.5	65.3	57.2	49.0	40.8	32.7
145°	223.3	189.0	154.8	120.6	86.3	52.1	46.3	40.5	34.7	28.9	23.2
147.5°	182.0	152.2	122.5	92.7	63.0	33.2	29.5	25.8	22.1	18.4	14.8
150°	141.4	117.0	92.5	68.0	43.5	19.0	16.9	14.8	12.7	10.6	8.4
152.5°	106.9	87.4	67.9	48.5	29.0	9.5	8.4	7.4	6.3	5.3	4.2
155°	74.5	60.5	46.6	32.6	18.7	4.7	4.2	3.7	3.1	2.6	2.1
157.5°	46.1	36.8	27.6	18.4	9.2	0.0	0.0	0.0	0.0	0.0	0.0
160°	26.3	21.1	15.8	10.5	5.3	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	11.8	9.5	7.1	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
165°	3.9	3.2	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201412

CATALOG NUMBER: 8LBLELD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6
2.5°	1609.9	1611.3	1612.6	1613.9	1610.5	1607.1	1603.6	1600.2	1596.8	1593.4	1589.9
5°	1609.9	1609.6	1609.4	1609.1	1604.1	1599.1	1594.1	1589.1	1584.1	1579.1	1574.1
7.5°	1602.0	1599.6	1597.3	1594.9	1589.1	1583.3	1577.5	1571.7	1566.0	1560.2	1554.4
10°	1592.5	1588.6	1584.6	1580.7	1573.9	1567.0	1560.2	1553.3	1546.5	1539.6	1532.8
12.5°	1576.0	1569.6	1563.3	1557.0	1549.9	1542.8	1535.7	1528.6	1521.4	1514.3	1507.2
15°	1554.6	1545.9	1537.2	1528.5	1521.4	1514.3	1507.2	1500.1	1493.0	1485.9	1478.8
17.5°	1534.1	1523.6	1513.0	1502.5	1495.1	1487.7	1480.4	1473.0	1465.6	1458.2	1450.9
20°	1504.1	1490.9	1477.8	1464.6	1458.3	1452.0	1445.6	1439.3	1433.0	1426.7	1420.3
22.5°	1474.8	1459.6	1444.3	1429.0	1423.2	1417.4	1411.6	1405.8	1400.1	1394.3	1388.5
25°	1440.9	1422.7	1404.6	1386.4	1382.2	1378.0	1373.7	1369.5	1365.3	1361.1	1356.8
27.5°	1404.5	1383.4	1362.4	1341.3	1338.9	1336.6	1334.2	1331.8	1329.5	1327.1	1324.7
30°	1362.7	1338.2	1313.7	1289.2	1289.5	1289.7	1290.0	1290.3	1290.5	1290.8	1291.1
32.5°	1322.4	1294.0	1265.5	1237.1	1240.8	1244.5	1248.1	1251.8	1255.5	1259.2	1262.8
35°	1279.7	1247.4	1215.0	1182.6	1190.0	1197.3	1204.7	1212.1	1219.4	1226.8	1234.2
37.5°	1237.1	1199.9	1162.8	1125.7	1137.0	1148.3	1159.7	1171.0	1182.3	1193.6	1205.0
40°	1192.8	1150.7	1108.5	1066.4	1081.4	1096.4	1111.4	1126.4	1141.5	1156.5	1171.5
42.5°	1145.4	1098.5	1051.7	1004.8	1023.8	1042.7	1061.7	1080.6	1099.6	1118.5	1137.5
45°	1099.6	1048.3	996.9	945.6	968.0	990.4	1012.7	1035.1	1057.5	1079.9	1102.2
47.5°	1049.9	993.8	937.7	881.6	907.9	934.3	960.6	986.9	1013.3	1039.6	1065.9
50°	999.3	938.7	878.2	817.6	847.9	878.2	908.4	938.7	969.0	999.3	1029.5
52.5°	946.3	881.3	816.2	751.2	785.2	819.2	853.1	887.1	921.1	955.1	989.0
55°	896.6	827.6	758.6	689.6	727.0	764.4	801.8	839.2	876.5	913.9	951.3
57.5°	843.6	771.0	698.3	625.6	666.4	707.2	748.1	788.9	829.7	870.5	911.4
60°	788.4	711.2	634.1	556.9	601.7	646.4	691.2	736.0	780.7	825.5	870.3
62.5°	734.6	654.1	573.5	492.9	540.8	588.7	636.7	684.6	732.5	780.4	828.4
65°	684.1	600.6	517.2	433.7	484.3	534.8	585.4	635.9	686.5	737.0	787.6
67.5°	630.4	544.3	458.2	372.1	424.8	477.4	530.1	582.7	635.4	688.0	740.7
70°	577.4	489.2	401.0	312.8	367.6	422.3	477.1	531.9	586.6	641.4	696.2
72.5°	526.1	436.0	346.0	255.9	312.0	368.1	424.2	480.3	536.3	592.4	648.5
75°	474.7	383.6	292.5	201.4	258.5	315.7	372.8	430.0	487.1	544.3	601.4
77.5°	425.0	333.1	241.2	149.3	207.2	265.2	323.1	381.0	439.0	496.9	554.8
80°	380.0	288.1	196.2	104.3	162.2	220.1	278.1	336.0	393.9	451.8	509.8
82.5°	337.3	246.2	155.1	64.0	120.9	177.8	234.6	291.5	348.4	405.3	462.1
85°	300.2	210.4	120.6	30.8	86.6	142.4	198.3	254.1	309.9	365.7	421.6
87.5°	270.2	182.5	94.8	7.1	61.6	116.1	170.6	225.1	279.7	334.2	388.7
90°	252.0	168.0	84.0	0.0	52.1	104.3	156.4	208.5	260.7	312.8	364.9
92.5°	243.3	162.2	81.1	0.0	49.8	99.5	149.3	199.1	248.8	298.6	348.4
95°	233.8	155.9	77.9	0.0	47.4	94.8	142.2	189.6	237.0	284.4	331.8
97.5°	224.3	149.6	74.8	0.0	44.8	89.5	134.3	179.1	223.8	268.6	313.4
100°	214.9	143.2	71.6	0.0	42.1	84.3	126.4	168.5	210.7	252.8	294.9
102.5°	203.0	135.3	67.7	0.0	39.5	79.0	118.5	158.0	197.5	237.0	276.5
105°	191.2	127.4	63.7	0.0	36.9	73.7	110.6	147.5	184.3	221.2	258.1
107.5°	180.1	120.1	60.0	0.0	34.2	68.5	102.7	136.9	171.2	205.4	239.6
110°	169.0	112.7	56.3	0.0	31.3	62.7	94.0	125.3	156.7	188.0	219.3



TEST NUMBER: P201412

CATALOG NUMBER: 8LBLED-LD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	157.2	104.8	52.4	0.0	28.7	57.4	86.1	114.8	143.5	172.2	200.9
115°	145.4	96.9	48.5	0.0	25.8	51.6	77.4	103.2	129.0	154.8	180.6
117.5°	132.7	88.5	44.2	0.0	23.2	46.3	69.5	92.7	115.8	139.0	162.2
120°	119.3	79.5	39.8	0.0	20.5	41.1	61.6	82.1	102.7	123.2	143.7
122.5°	107.4	71.6	35.8	0.0	17.9	35.8	53.7	71.6	89.5	107.4	125.3
125°	96.4	64.2	32.1	0.0	15.3	30.6	45.8	61.1	76.4	91.7	106.9
127.5°	84.5	56.4	28.2	0.0	12.4	24.8	37.1	49.5	61.9	74.3	86.6
130°	73.5	49.0	24.5	0.0	9.7	19.5	29.2	39.0	48.7	58.5	68.2
132.5°	62.4	41.6	20.8	0.0	7.4	14.8	22.1	29.5	36.9	44.3	51.6
135°	52.1	34.8	17.4	0.0	5.3	10.5	15.8	21.1	26.3	31.6	36.9
137.5°	41.9	27.9	14.0	0.0	3.7	7.4	11.1	14.8	18.4	22.1	25.8
140°	33.2	22.1	11.1	0.0	2.1	4.2	6.3	8.4	10.6	12.7	14.8
142.5°	24.5	16.3	8.2	0.0	1.1	2.1	3.2	4.2	5.3	6.3	7.4
145°	17.4	11.6	5.8	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.7
147.5°	11.1	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	6.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.6	1.0	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: P201412

CATALOG NUMBER: 8LBLELD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6
2.5°	1586.5	1583.1	1581.5	1579.9	1578.3	1576.7	1575.2	1573.6	1572.0	1570.4	1568.8
5°	1569.1	1564.1	1562.5	1560.9	1559.4	1557.8	1556.2	1554.6	1553.1	1551.5	1549.9
7.5°	1548.6	1542.8	1540.7	1538.6	1536.5	1534.4	1532.2	1530.1	1528.0	1525.9	1523.8
10°	1525.9	1519.1	1517.8	1516.5	1515.1	1513.8	1512.5	1511.2	1509.8	1508.5	1507.2
12.5°	1500.1	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0
15°	1471.7	1464.6	1467.0	1469.3	1471.7	1474.1	1476.4	1478.8	1481.2	1483.5	1485.9
17.5°	1443.5	1436.1	1441.9	1447.7	1453.5	1459.3	1465.1	1470.9	1476.7	1482.5	1488.3
20°	1414.0	1407.7	1418.2	1428.8	1439.3	1449.8	1460.4	1470.9	1481.4	1492.0	1502.5
22.5°	1382.7	1376.9	1392.7	1408.5	1424.3	1440.1	1455.9	1471.7	1487.5	1503.3	1519.1
25°	1352.6	1348.4	1369.2	1390.0	1410.8	1431.6	1452.5	1473.3	1494.1	1514.9	1535.7
27.5°	1322.4	1320.0	1345.3	1370.6	1395.8	1421.1	1446.4	1471.7	1496.9	1522.2	1547.5
30°	1291.3	1291.6	1321.1	1350.6	1380.1	1409.6	1439.0	1468.5	1498.0	1527.5	1557.0
32.5°	1266.5	1270.2	1302.9	1335.5	1368.2	1400.8	1433.5	1466.1	1498.8	1531.4	1564.1
35°	1241.5	1248.9	1284.7	1320.5	1356.3	1392.1	1428.0	1463.8	1499.6	1535.4	1571.2
37.5°	1216.3	1227.6	1266.3	1305.0	1343.7	1382.4	1421.1	1459.8	1498.5	1537.2	1575.9
40°	1186.5	1201.5	1243.6	1285.8	1327.9	1370.0	1412.2	1454.3	1496.4	1538.6	1580.7
42.5°	1156.4	1175.4	1220.7	1266.0	1311.3	1356.6	1401.9	1447.2	1492.5	1537.8	1583.1
45°	1124.6	1147.0	1195.5	1243.9	1292.4	1340.8	1389.3	1437.7	1486.2	1534.6	1583.1
47.5°	1092.3	1118.6	1170.2	1221.8	1273.4	1325.0	1376.7	1428.3	1479.9	1531.5	1583.1
50°	1059.8	1090.1	1144.6	1199.1	1253.6	1308.1	1362.7	1417.2	1471.7	1526.2	1580.7
52.5°	1023.0	1057.0	1114.7	1172.3	1230.0	1287.6	1345.3	1402.9	1460.6	1518.2	1575.9
55°	988.7	1026.1	1086.9	1147.8	1208.6	1269.4	1330.3	1391.1	1451.9	1512.8	1573.6
57.5°	952.2	993.0	1057.0	1121.0	1184.9	1248.9	1312.9	1376.9	1440.8	1504.8	1568.8
60°	915.0	959.8	1026.9	1094.1	1161.2	1228.4	1295.5	1362.7	1429.8	1497.0	1564.1
62.5°	876.3	924.2	994.5	1064.8	1135.1	1205.4	1275.8	1346.1	1416.4	1486.7	1557.0
65°	838.1	888.7	961.9	1035.1	1108.3	1181.5	1254.7	1327.9	1401.1	1474.3	1547.5
67.5°	793.3	846.0	922.6	999.3	1075.9	1152.5	1229.2	1305.8	1382.4	1459.1	1535.7
70°	750.9	805.7	884.4	963.2	1041.9	1120.6	1199.4	1278.1	1356.8	1435.6	1514.3
72.5°	704.6	760.7	840.5	920.3	1000.1	1079.9	1159.6	1239.4	1319.2	1399.0	1478.8
75°	658.6	715.7	795.2	874.7	954.3	1033.8	1113.3	1192.8	1272.4	1351.9	1431.4
77.5°	612.8	670.7	749.2	827.6	906.1	984.6	1063.0	1141.5	1220.0	1298.4	1376.9
80°	567.7	625.6	702.2	778.9	855.5	932.1	1008.8	1085.4	1162.0	1238.7	1315.3
82.5°	519.0	575.9	650.7	725.5	800.2	875.0	949.8	1024.6	1099.3	1174.1	1248.9
85°	477.4	533.2	605.9	678.6	751.2	823.9	896.6	969.3	1041.9	1114.6	1187.3
87.5°	443.2	497.7	568.5	639.4	710.2	781.0	851.9	922.7	993.5	1064.4	1135.2
90°	417.1	469.2	537.7	606.1	674.6	743.1	811.5	880.0	948.5	1016.9	1085.4
92.5°	398.1	447.9	514.3	580.6	647.0	713.3	779.7	846.0	912.4	978.7	1045.1
95°	379.2	426.6	491.1	555.6	620.1	684.6	749.2	813.7	878.2	942.7	1007.2
97.5°	358.1	402.9	465.8	528.8	591.7	654.6	717.6	780.5	843.4	906.4	969.3
100°	337.1	379.2	440.8	502.4	564.0	625.6	687.3	748.9	810.5	872.1	933.7
102.5°	316.0	355.5	415.5	475.6	535.6	595.6	655.7	715.7	775.7	835.8	895.8
105°	294.9	331.8	390.3	448.7	507.2	565.6	624.1	682.5	741.0	799.4	857.9
107.5°	273.9	308.1	364.7	421.3	477.9	534.5	591.2	647.8	704.4	761.0	817.6
110°	250.7	282.0	337.0	392.1	447.1	502.1	557.2	612.2	667.2	722.3	777.3



TEST NUMBER: P201412

CATALOG NUMBER: 8LBLED-LD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	229.6	258.3	311.2	364.2	417.1	470.0	523.0	575.9	628.8	681.8	734.7
115°	206.4	232.2	283.6	334.9	386.3	437.6	489.0	540.3	591.7	643.0	694.4
117.5°	185.3	208.5	257.5	306.5	355.4	404.4	453.4	502.4	551.3	600.3	649.3
120°	164.3	184.8	231.9	279.1	326.2	373.3	420.5	467.6	514.7	561.9	609.0
122.5°	143.2	161.1	205.1	249.1	293.0	337.0	381.0	425.0	468.9	512.9	556.9
125°	122.2	137.5	178.8	220.2	261.5	302.8	344.2	385.5	426.8	468.2	509.5
127.5°	99.0	111.4	150.4	189.3	228.3	267.3	306.2	345.2	384.2	423.1	462.1
130°	78.0	87.7	123.0	158.3	193.5	228.8	264.1	299.4	334.6	369.9	405.2
132.5°	59.0	66.4	98.3	130.1	162.0	193.8	225.7	257.5	289.4	321.2	353.1
135°	42.1	47.4	75.6	103.8	131.9	160.1	188.3	216.5	244.6	272.8	301.0
137.5°	29.5	33.2	57.7	82.2	106.7	131.2	155.6	180.1	204.6	229.1	253.6
140°	16.9	19.0	40.3	61.6	83.0	104.3	125.6	146.9	168.3	189.6	210.9
142.5°	8.4	9.5	27.4	45.3	63.2	81.1	99.0	116.9	134.8	152.7	170.6
145°	4.2	4.7	18.9	33.1	47.4	61.6	75.8	90.0	104.3	118.5	132.7
147.5°	0.0	0.0	11.3	22.6	34.0	45.3	56.6	67.9	79.3	90.6	101.9
150°	0.0	0.0	7.9	15.8	23.7	31.6	39.5	47.4	55.3	63.2	71.1
152.5°	0.0	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
155°	0.0	0.0	2.6	5.3	7.9	10.5	13.2	15.8	18.4	21.1	23.7
157.5°	0.0	0.0	1.1	2.1	3.2	4.2	5.3	6.3	7.4	8.4	9.5
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: P201412

CATALOG NUMBER: 8LBLELD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6
2.5°	1567.8	1566.7	1565.7	1564.6	1563.6	1562.5	1561.5	1560.4	1559.4	1558.1	1556.8
5°	1548.1	1546.2	1544.4	1542.5	1540.7	1538.8	1537.0	1535.1	1533.3	1532.8	1532.2
7.5°	1523.0	1522.2	1521.4	1520.6	1519.9	1519.1	1518.3	1517.5	1516.7	1516.4	1516.2
10°	1507.7	1508.3	1508.8	1509.3	1509.9	1510.4	1510.9	1511.5	1512.0	1512.0	1512.0
12.5°	1495.9	1498.8	1501.7	1504.6	1507.5	1510.4	1513.3	1516.2	1519.1	1520.4	1521.7
15°	1492.7	1499.6	1506.4	1513.3	1520.1	1527.0	1533.8	1540.7	1547.5	1550.4	1553.3
17.5°	1499.1	1509.9	1520.7	1531.5	1542.2	1553.0	1563.8	1574.6	1585.4	1588.8	1592.2
20°	1515.7	1528.8	1542.0	1555.2	1568.3	1581.5	1594.7	1607.8	1621.0	1625.2	1629.4
22.5°	1533.8	1548.6	1563.3	1578.1	1592.8	1607.6	1622.3	1637.1	1651.8	1657.1	1662.3
25°	1552.3	1568.9	1585.5	1602.1	1618.6	1635.2	1651.8	1668.4	1685.0	1690.8	1696.6
27.5°	1565.9	1584.4	1602.8	1621.2	1639.7	1658.1	1676.5	1695.0	1713.4	1720.2	1727.1
30°	1577.5	1598.1	1618.6	1639.1	1659.7	1680.2	1700.7	1721.3	1741.8	1750.0	1758.1
32.5°	1587.3	1610.4	1633.6	1656.8	1679.9	1703.1	1726.3	1749.4	1772.6	1781.6	1790.5
35°	1596.7	1622.3	1647.8	1673.4	1698.9	1724.5	1750.0	1775.6	1801.1	1811.4	1821.6
37.5°	1603.6	1631.2	1658.9	1686.5	1714.2	1741.8	1769.5	1797.1	1824.8	1836.6	1848.5
40°	1611.0	1641.3	1671.5	1701.8	1732.1	1762.4	1792.6	1822.9	1853.2	1866.4	1879.5
42.5°	1616.3	1649.5	1682.6	1715.8	1749.0	1782.2	1815.3	1848.5	1881.7	1896.4	1911.2
45°	1619.7	1656.3	1692.9	1729.5	1766.1	1802.7	1839.3	1875.9	1912.5	1928.6	1944.6
47.5°	1622.9	1662.6	1702.4	1742.1	1781.9	1821.6	1861.4	1901.1	1940.9	1958.5	1976.2
50°	1624.1	1667.6	1711.0	1754.5	1797.9	1841.4	1884.8	1928.3	1971.7	1991.2	2010.7
52.5°	1623.3	1670.7	1718.1	1765.5	1812.9	1860.3	1907.7	1955.1	2002.5	2023.8	2045.2
55°	1624.4	1675.2	1726.1	1776.9	1827.7	1878.5	1929.4	1980.2	2031.0	2053.6	2076.3
57.5°	1623.6	1678.4	1733.1	1787.9	1842.7	1897.5	1952.2	2007.0	2061.8	2085.2	2108.7
60°	1622.0	1680.0	1737.9	1795.8	1853.8	1911.7	1969.6	2027.6	2085.5	2109.5	2133.4
62.5°	1617.6	1678.1	1738.7	1799.3	1859.8	1920.4	1981.0	2041.5	2102.1	2126.6	2151.1
65°	1610.2	1672.8	1735.5	1798.2	1860.8	1923.5	1986.2	2048.8	2111.5	2136.3	2161.0
67.5°	1599.4	1663.1	1726.9	1790.6	1854.3	1918.0	1981.8	2045.5	2109.2	2133.9	2158.7
70°	1578.6	1642.8	1707.1	1771.3	1835.6	1899.8	1964.1	2028.3	2092.6	2116.8	2141.0
72.5°	1542.8	1606.8	1670.8	1734.8	1798.7	1862.7	1926.7	1990.7	2054.7	2078.7	2102.6
75°	1494.6	1557.8	1621.0	1684.2	1747.3	1810.5	1873.7	1936.9	2000.1	2023.3	2046.5
77.5°	1438.5	1500.1	1561.7	1623.3	1685.0	1746.6	1808.2	1869.8	1931.4	1953.8	1976.2
80°	1374.8	1434.3	1493.8	1553.3	1612.8	1672.3	1731.8	1791.3	1850.8	1872.9	1895.0
82.5°	1306.3	1363.7	1421.1	1478.5	1535.9	1593.3	1650.7	1708.1	1765.5	1787.1	1808.7
85°	1242.6	1297.9	1353.2	1408.5	1463.8	1519.1	1574.4	1629.7	1685.0	1705.8	1726.6
87.5°	1187.6	1240.0	1292.4	1344.8	1397.2	1449.6	1502.0	1554.4	1606.8	1627.6	1648.4
90°	1136.2	1187.0	1237.9	1288.7	1339.5	1390.3	1441.2	1492.0	1542.8	1562.5	1582.3
92.5°	1094.1	1143.1	1192.0	1241.0	1290.0	1339.0	1387.9	1436.9	1485.9	1504.6	1523.3
95°	1054.3	1101.5	1148.6	1195.7	1242.9	1290.0	1337.1	1384.3	1431.4	1449.6	1467.7
97.5°	1015.1	1060.9	1106.7	1152.5	1198.4	1244.2	1290.0	1335.8	1381.6	1399.0	1416.4
100°	978.2	1022.7	1067.2	1111.7	1156.2	1200.7	1245.2	1289.7	1334.2	1351.1	1367.9
102.5°	939.2	982.7	1026.1	1069.6	1113.0	1156.5	1199.9	1243.4	1286.8	1303.1	1319.5
105°	900.3	942.7	985.1	1027.5	1069.8	1112.2	1154.6	1197.0	1239.4	1255.5	1271.5
107.5°	858.9	900.3	941.6	983.0	1024.3	1065.7	1107.0	1148.4	1189.7	1205.5	1221.3
110°	817.3	857.3	897.4	937.4	977.4	1017.4	1057.5	1097.5	1137.5	1153.0	1168.6





TEST NUMBER: P201412

CATALOG NUMBER: 8LBLED-LD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	773.4	812.1	850.8	889.5	928.2	966.9	1005.6	1044.3	1083.0	1098.0	1113.0
115°	731.5	768.6	805.8	842.9	880.0	917.1	954.3	991.4	1028.5	1043.2	1058.0
117.5°	685.4	721.5	757.5	793.6	829.7	865.8	901.8	937.9	974.0	988.2	1002.4
120°	643.5	678.0	712.5	747.0	781.5	816.0	850.5	885.0	919.5	932.4	945.3
122.5°	590.6	624.3	658.0	691.7	725.5	759.2	792.9	826.6	860.3	873.2	886.1
125°	542.2	574.8	607.5	640.1	672.8	705.4	738.1	770.7	803.4	815.8	828.2
127.5°	493.2	524.3	555.3	586.4	617.5	648.6	679.6	710.7	741.8	753.9	766.0
130°	436.0	466.8	497.6	528.4	559.3	590.1	620.9	651.7	682.5	694.1	705.7
132.5°	382.9	412.6	442.4	472.1	501.9	531.6	561.4	591.1	620.9	631.7	642.5
135°	329.2	357.3	385.5	413.7	441.8	470.0	498.2	526.3	554.5	565.0	575.6
137.5°	279.9	306.3	332.6	358.9	385.3	411.6	437.9	464.3	490.6	501.1	511.7
140°	234.6	258.3	282.0	305.7	329.4	353.1	376.8	400.5	424.2	434.7	445.3
142.5°	191.4	212.2	233.0	253.8	274.6	295.4	316.2	337.0	357.8	368.6	379.4
145°	150.9	169.0	187.2	205.4	223.5	241.7	259.9	278.0	296.2	307.8	319.4
147.5°	117.2	132.5	147.7	163.0	178.3	193.6	208.8	224.1	239.4	250.7	262.0
150°	83.7	96.4	109.0	121.6	134.3	146.9	159.5	172.2	184.8	195.6	206.4
152.5°	55.3	65.6	75.8	86.1	96.4	106.7	116.9	127.2	137.5	147.5	157.5
155°	31.6	39.5	47.4	55.3	63.2	71.1	79.0	86.9	94.8	103.5	112.2
157.5°	15.0	20.5	26.1	31.6	37.1	42.6	48.2	53.7	59.2	66.3	73.4
160°	3.2	6.3	9.5	12.6	15.8	18.9	22.1	25.2	28.4	33.7	38.9
162.5°	0.8	1.6	2.4	3.2	3.9	4.7	5.5	6.3	7.1	10.3	13.4
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201412

CATALOG NUMBER: 8LBLEDD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6
2.5°	1555.4	1554.1	1552.8	1551.5	1550.1	1548.8	1547.5	1548.6	1549.6	1550.7	1551.7
5°	1531.7	1531.2	1530.6	1530.1	1529.6	1529.0	1528.5	1528.8	1529.0	1529.3	1529.6
7.5°	1515.9	1515.6	1515.4	1515.1	1514.8	1514.6	1514.3	1514.3	1514.3	1514.3	1514.3
10°	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1512.0	1511.2	1510.4	1509.6	1508.8
12.5°	1523.0	1524.3	1525.7	1527.0	1528.3	1529.6	1530.9	1528.8	1526.7	1524.6	1522.5
15°	1556.2	1559.1	1562.0	1564.9	1567.8	1570.7	1573.6	1570.4	1567.3	1564.1	1560.9
17.5°	1595.7	1599.1	1602.5	1605.9	1609.4	1612.8	1616.2	1612.0	1607.8	1603.6	1599.4
20°	1633.6	1637.8	1642.1	1646.3	1650.5	1654.7	1658.9	1653.9	1648.9	1643.9	1638.9
22.5°	1667.6	1672.9	1678.1	1683.4	1688.7	1693.9	1699.2	1692.9	1686.6	1680.2	1673.9
25°	1702.4	1708.2	1713.9	1719.7	1725.5	1731.3	1737.1	1730.3	1723.4	1716.6	1709.7
27.5°	1733.9	1740.8	1747.6	1754.5	1761.3	1768.2	1775.0	1767.4	1759.7	1752.1	1744.5
30°	1766.3	1774.5	1782.6	1790.8	1799.0	1807.1	1815.3	1806.3	1797.4	1788.4	1779.5
32.5°	1799.5	1808.4	1817.4	1826.3	1835.3	1844.2	1853.2	1843.5	1833.7	1824.0	1814.2
35°	1831.9	1842.2	1852.4	1862.7	1873.0	1883.2	1893.5	1882.7	1871.9	1861.1	1850.3
37.5°	1860.3	1872.2	1884.0	1895.9	1907.7	1919.6	1931.4	1919.6	1907.7	1895.9	1884.0
40°	1892.7	1905.9	1919.0	1932.2	1945.4	1958.5	1971.7	1958.5	1945.4	1932.2	1919.0
42.5°	1925.9	1940.7	1955.4	1970.2	1984.9	1999.7	2014.4	2000.2	1986.0	1971.7	1957.5
45°	1960.7	1976.7	1992.8	2008.8	2024.9	2040.9	2057.0	2041.5	2025.9	2010.4	1994.9
47.5°	1993.8	2011.5	2029.1	2046.8	2064.4	2082.1	2099.7	2083.1	2066.5	2049.9	2033.3
50°	2030.2	2049.7	2069.1	2088.6	2108.1	2127.6	2147.1	2128.9	2110.8	2092.6	2074.4
52.5°	2066.5	2087.8	2109.2	2130.5	2151.8	2173.2	2194.5	2174.7	2155.0	2135.2	2115.5
55°	2098.9	2121.6	2144.2	2166.9	2189.5	2212.2	2234.8	2214.5	2194.2	2174.0	2153.7
57.5°	2132.1	2155.5	2179.0	2202.4	2225.8	2249.3	2272.7	2251.6	2230.6	2209.5	2188.4
60°	2157.4	2181.3	2205.3	2229.2	2253.2	2277.1	2301.1	2279.8	2258.5	2237.1	2215.8
62.5°	2175.5	2200.0	2224.5	2249.0	2273.4	2297.9	2322.4	2300.3	2278.2	2256.1	2234.0
65°	2185.8	2210.5	2235.3	2260.0	2284.8	2309.5	2334.3	2312.4	2290.6	2268.7	2246.9
67.5°	2183.4	2208.2	2232.9	2257.7	2282.4	2307.2	2331.9	2309.8	2287.7	2265.6	2243.5
70°	2165.3	2189.5	2213.7	2237.9	2262.2	2286.4	2310.6	2288.7	2266.9	2245.0	2223.2
72.5°	2126.6	2150.5	2174.5	2198.4	2222.4	2246.3	2270.3	2248.7	2227.1	2205.5	2183.9
75°	2069.6	2092.8	2116.0	2139.2	2162.3	2185.5	2208.7	2187.9	2167.1	2146.3	2125.5
77.5°	1998.6	2021.0	2043.3	2065.7	2088.1	2110.5	2132.9	2112.4	2091.8	2071.3	2050.7
80°	1917.2	1939.3	1961.4	1983.5	2005.7	2027.8	2049.9	2029.9	2009.9	1989.9	1969.9
82.5°	1830.3	1851.9	1873.5	1895.1	1916.7	1938.3	1959.9	1940.1	1920.4	1900.6	1880.9
85°	1747.4	1768.2	1789.0	1809.8	1830.6	1851.4	1872.2	1853.0	1833.8	1814.5	1795.3
87.5°	1669.2	1690.0	1710.8	1731.6	1752.4	1773.2	1794.0	1774.8	1755.6	1736.3	1717.1
90°	1602.0	1621.8	1641.5	1661.3	1681.0	1700.8	1720.5	1702.1	1683.6	1665.2	1646.8
92.5°	1542.0	1560.7	1579.4	1598.1	1616.8	1635.5	1654.2	1636.8	1619.4	1602.0	1584.6
95°	1485.9	1504.1	1522.2	1540.4	1558.6	1576.7	1594.9	1578.3	1561.7	1545.1	1528.5
97.5°	1433.7	1451.1	1468.5	1485.9	1503.2	1520.6	1538.0	1522.2	1506.4	1490.6	1474.8
100°	1384.8	1401.6	1418.5	1435.3	1452.2	1469.0	1485.9	1470.4	1454.8	1439.3	1423.8
102.5°	1335.8	1352.1	1368.5	1384.8	1401.1	1417.5	1433.8	1418.5	1403.2	1388.0	1372.7
105°	1287.6	1303.7	1319.7	1335.8	1351.9	1367.9	1384.0	1369.0	1354.0	1339.0	1324.0
107.5°	1237.1	1252.9	1268.7	1284.5	1300.3	1316.1	1331.9	1317.1	1302.4	1287.6	1272.9
110°	1184.1	1199.6	1215.2	1230.7	1246.2	1261.8	1277.3	1262.8	1248.3	1233.9	1219.4



TEST NUMBER: P201412

CATALOG NUMBER: 8LBLED-LD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	1128.0	1143.0	1158.1	1173.1	1188.1	1203.1	1218.1	1204.1	1190.2	1176.2	1162.3
115°	1072.7	1087.5	1102.2	1117.0	1131.7	1146.5	1161.2	1147.5	1133.8	1120.1	1106.4
117.5°	1016.7	1030.9	1045.1	1059.3	1073.6	1087.8	1102.0	1088.8	1075.7	1062.5	1049.3
120°	958.2	971.1	984.0	996.9	1009.8	1022.7	1035.6	1023.5	1011.4	999.3	987.2
122.5°	899.0	911.9	924.8	937.7	950.6	963.5	976.4	964.8	953.2	941.6	930.0
125°	840.5	852.9	865.3	877.7	890.0	902.4	914.8	903.5	892.2	880.8	869.5
127.5°	778.1	790.2	802.4	814.5	826.6	838.7	850.8	840.3	829.7	819.2	808.7
130°	717.3	728.9	740.4	752.0	763.6	775.2	786.8	776.5	766.3	756.0	745.7
132.5°	653.3	664.1	674.9	685.7	696.5	707.3	718.1	708.6	699.1	689.6	680.1
135°	586.1	596.6	607.2	617.7	628.2	638.8	649.3	640.4	631.4	622.5	613.5
137.5°	522.2	532.7	543.3	553.8	564.3	574.9	585.4	577.0	568.5	560.1	551.7
140°	455.8	466.3	476.9	487.4	497.9	508.5	519.0	511.9	504.8	497.7	490.6
142.5°	390.2	401.0	411.8	422.6	433.4	444.2	455.0	448.7	442.4	436.0	429.7
145°	331.0	342.6	354.1	365.7	377.3	388.9	400.5	394.2	387.9	381.5	375.2
147.5°	273.4	284.7	296.0	307.3	318.7	330.0	341.3	335.5	329.7	323.9	318.1
150°	217.2	228.0	238.8	249.6	260.4	271.2	282.0	277.3	272.5	267.8	263.1
152.5°	167.5	177.5	187.5	197.5	207.5	217.5	227.5	223.0	218.5	214.1	209.6
155°	120.9	129.6	138.2	146.9	155.6	164.3	173.0	169.3	165.6	161.9	158.2
157.5°	80.5	87.6	94.8	101.9	109.0	116.1	123.2	120.0	116.9	113.7	110.6
160°	44.2	49.5	54.7	60.0	65.3	70.5	75.8	73.7	71.6	69.5	67.4
162.5°	16.6	19.7	22.9	26.0	29.2	32.3	35.5	34.5	33.4	32.4	31.3
165°	3.2	4.2	5.3	6.3	7.4	8.4	9.5	9.5	9.5	9.5	9.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201412

CATALOG NUMBER: 8LBLELD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6
2.5°	1552.8	1553.8	1554.9	1555.9	1557.0	1559.6	1562.3	1564.9	1567.5	1570.2	1572.8
5°	1529.8	1530.1	1530.4	1530.6	1530.9	1533.8	1536.7	1539.6	1542.5	1545.4	1548.3
7.5°	1514.3	1514.3	1514.3	1514.3	1514.3	1516.1	1518.0	1519.8	1521.7	1523.5	1525.4
10°	1508.1	1507.3	1506.5	1505.7	1504.9	1506.2	1507.5	1508.8	1510.1	1511.5	1512.8
12.5°	1520.4	1518.3	1516.2	1514.1	1512.0	1511.2	1510.4	1509.6	1508.8	1508.1	1507.3
15°	1557.8	1554.6	1551.4	1548.3	1545.1	1539.8	1534.6	1529.3	1524.0	1518.8	1513.5
17.5°	1595.1	1590.9	1586.7	1582.5	1578.3	1569.6	1560.9	1552.2	1543.5	1534.9	1526.2
20°	1633.9	1628.9	1623.9	1618.9	1613.9	1603.1	1592.3	1581.5	1570.7	1559.9	1549.1
22.5°	1667.6	1661.3	1654.9	1648.6	1642.3	1629.9	1617.5	1605.2	1592.8	1580.4	1568.0
25°	1702.9	1696.0	1689.2	1682.3	1675.5	1661.0	1646.5	1632.0	1617.5	1603.1	1588.6
27.5°	1736.8	1729.2	1721.6	1713.9	1706.3	1689.7	1673.1	1656.5	1639.9	1623.4	1606.8
30°	1770.5	1761.6	1752.6	1743.7	1734.7	1715.7	1696.8	1677.8	1658.9	1639.9	1621.0
32.5°	1804.5	1794.7	1785.0	1775.2	1765.5	1743.6	1721.8	1699.9	1678.1	1656.2	1634.4
35°	1839.5	1828.7	1817.9	1807.1	1796.3	1771.8	1747.3	1722.8	1698.3	1673.9	1649.4
37.5°	1872.2	1860.3	1848.5	1836.6	1824.8	1798.2	1771.6	1745.0	1718.4	1691.8	1665.2
40°	1905.9	1892.7	1879.5	1866.4	1853.2	1824.0	1794.8	1765.5	1736.3	1707.1	1677.9
42.5°	1943.3	1929.1	1914.8	1900.6	1886.4	1854.0	1821.6	1789.2	1756.8	1724.5	1692.1
45°	1979.3	1963.8	1948.3	1932.7	1917.2	1881.9	1846.6	1811.3	1776.0	1740.8	1705.5
47.5°	2016.8	2000.2	1983.6	1967.0	1950.4	1911.4	1872.4	1833.5	1794.5	1755.5	1716.5
50°	2056.3	2038.1	2019.9	2001.8	1983.6	1940.9	1898.3	1855.6	1812.9	1770.3	1727.6
52.5°	2095.7	2076.0	2056.2	2036.5	2016.7	1970.1	1923.5	1876.9	1830.3	1783.7	1737.1
55°	2133.4	2113.1	2092.9	2072.6	2052.3	2001.7	1951.2	1900.6	1850.1	1799.5	1749.0
57.5°	2167.4	2146.3	2125.2	2104.2	2083.1	2028.9	1974.6	1920.4	1866.1	1811.9	1757.6
60°	2194.5	2173.2	2151.8	2130.5	2109.2	2051.5	1993.9	1936.2	1878.5	1820.9	1763.2
62.5°	2211.8	2189.7	2167.6	2145.5	2123.4	2063.4	2003.3	1943.3	1883.3	1823.2	1763.2
65°	2225.0	2203.2	2181.3	2159.5	2137.6	2075.2	2012.8	1950.4	1888.0	1825.5	1763.1
67.5°	2221.3	2199.2	2177.1	2155.0	2132.9	2069.4	2006.0	1942.5	1879.0	1815.6	1752.1
70°	2201.3	2179.5	2157.6	2135.8	2113.9	2049.9	1985.9	1921.9	1857.9	1794.0	1730.0
72.5°	2162.4	2140.8	2119.2	2097.6	2076.0	2012.5	1949.1	1885.6	1822.2	1758.7	1695.3
75°	2104.7	2083.9	2063.1	2042.3	2021.5	1958.8	1896.2	1833.5	1770.8	1708.2	1645.5
77.5°	2030.2	2009.6	1989.1	1968.5	1948.0	1887.4	1826.9	1766.3	1705.7	1645.2	1584.6
80°	1949.8	1929.8	1909.8	1889.8	1869.8	1810.8	1751.8	1692.9	1633.9	1574.9	1515.9
82.5°	1861.1	1841.4	1821.6	1801.9	1782.1	1725.2	1668.3	1611.5	1554.6	1497.7	1440.8
85°	1776.1	1756.9	1737.6	1718.4	1699.2	1644.4	1589.7	1534.9	1480.1	1425.4	1370.6
87.5°	1697.9	1678.7	1659.4	1640.2	1621.0	1568.3	1515.7	1463.0	1410.3	1357.7	1305.0
90°	1628.3	1609.9	1591.5	1573.0	1554.6	1504.3	1454.0	1403.7	1353.4	1303.2	1252.9
92.5°	1567.3	1549.9	1532.5	1515.1	1497.7	1449.3	1400.8	1352.4	1303.9	1255.5	1207.0
95°	1512.0	1495.4	1478.8	1462.2	1445.6	1398.7	1351.9	1305.0	1258.1	1211.3	1164.4
97.5°	1459.0	1443.2	1427.4	1411.6	1395.8	1350.3	1304.7	1259.2	1213.6	1168.1	1122.5
100°	1408.2	1392.7	1377.2	1361.6	1346.1	1301.6	1257.1	1212.6	1168.1	1123.6	1079.1
102.5°	1357.4	1342.1	1326.9	1311.6	1296.3	1253.1	1209.9	1166.8	1123.6	1080.4	1037.2
105°	1308.9	1293.9	1278.9	1263.9	1248.9	1206.5	1164.1	1121.7	1079.3	1037.0	994.6
107.5°	1258.1	1243.4	1228.6	1213.9	1199.1	1158.0	1116.9	1075.9	1034.8	993.7	952.6
110°	1204.9	1190.4	1176.0	1161.5	1147.0	1107.5	1068.0	1028.5	989.0	949.5	910.0



TEST NUMBER: P201412

CATALOG NUMBER: 8LBLED-LD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	1148.3	1134.4	1120.4	1106.5	1092.5	1054.6	1016.7	978.7	940.8	902.9	865.0
115°	1092.8	1079.1	1065.4	1051.7	1038.0	1001.7	965.3	929.0	892.7	856.3	820.0
117.5°	1036.2	1023.0	1009.8	996.7	983.5	948.5	913.5	878.4	843.4	808.4	773.4
120°	975.0	962.9	950.8	938.7	926.6	892.9	859.2	825.5	791.8	758.1	724.4
122.5°	918.5	906.9	895.3	883.7	872.1	838.7	805.2	771.8	738.3	704.9	671.4
125°	858.2	846.9	835.5	824.2	812.9	781.0	749.2	717.3	685.4	653.6	621.7
127.5°	798.1	787.6	777.1	766.5	756.0	725.5	694.9	664.4	633.8	603.3	572.7
130°	735.5	725.2	714.9	704.7	694.4	666.5	638.6	610.7	582.8	554.8	526.9
132.5°	670.7	661.2	651.7	642.2	632.7	606.4	580.1	553.7	527.4	501.1	474.8
135°	604.6	595.6	586.7	577.7	568.8	544.8	520.9	496.9	472.9	449.0	425.0
137.5°	543.2	534.8	526.4	517.9	509.5	487.6	465.8	443.9	422.1	400.2	378.4
140°	483.4	476.3	469.2	462.1	455.0	434.2	413.4	392.6	371.8	351.0	330.2
142.5°	423.4	417.1	410.7	404.4	398.1	379.4	360.7	342.0	323.3	304.7	286.0
145°	368.9	362.6	356.2	349.9	343.6	326.5	309.4	292.3	275.2	258.0	240.9
147.5°	312.3	306.5	300.7	294.9	289.1	273.8	258.6	243.3	228.0	212.8	197.5
150°	258.3	253.6	248.9	244.1	239.4	225.7	212.0	198.3	184.6	170.9	157.2
152.5°	205.1	200.6	196.2	191.7	187.2	175.6	164.0	152.4	140.8	129.3	117.7
155°	154.6	150.9	147.2	143.5	139.8	130.1	120.3	110.6	100.8	91.1	81.3
157.5°	107.4	104.3	101.1	98.0	94.8	87.7	80.6	73.5	66.4	59.2	52.1
160°	65.3	63.2	61.1	59.0	56.9	52.2	47.4	42.7	37.9	33.2	28.4
162.5°	30.3	29.2	28.2	27.1	26.1	24.0	21.9	19.8	17.7	15.5	13.4
165°	9.5	9.5	9.5	9.5	9.5	8.7	7.9	7.1	6.3	5.6	4.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201412

CATALOG NUMBER: 8LBLELD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6
2.5°	1575.4	1578.1	1580.7	1581.2	1581.7	1582.3	1582.8	1583.3	1583.8	1584.4	1584.9
5°	1551.2	1554.1	1557.0	1558.1	1559.1	1560.2	1561.2	1562.3	1563.3	1564.4	1565.4
7.5°	1527.2	1529.1	1530.9	1532.2	1533.5	1534.9	1536.2	1537.5	1538.8	1540.2	1541.5
10°	1514.1	1515.4	1516.7	1517.0	1517.2	1517.5	1517.8	1518.0	1518.3	1518.6	1518.8
12.5°	1506.5	1505.7	1504.9	1503.6	1502.3	1500.9	1499.6	1498.3	1497.0	1495.6	1494.3
15°	1508.2	1503.0	1497.7	1494.0	1490.3	1486.7	1483.0	1479.3	1475.6	1472.0	1468.3
17.5°	1517.5	1508.8	1500.1	1492.7	1485.4	1478.0	1470.6	1463.3	1455.9	1448.5	1441.2
20°	1538.3	1527.5	1516.7	1504.3	1491.9	1479.6	1467.2	1454.8	1442.4	1430.1	1417.7
22.5°	1555.7	1543.3	1530.9	1513.5	1496.1	1478.8	1461.4	1444.0	1426.6	1409.3	1391.9
25°	1574.1	1559.6	1545.1	1523.0	1500.9	1478.8	1456.7	1434.5	1412.4	1390.3	1368.2
27.5°	1590.2	1573.6	1557.0	1530.4	1503.8	1477.2	1450.6	1424.0	1397.4	1370.8	1344.2
30°	1602.0	1583.1	1564.1	1533.8	1503.5	1473.3	1443.0	1412.7	1382.4	1352.2	1321.9
32.5°	1612.5	1590.7	1568.8	1535.6	1502.4	1469.3	1436.1	1402.9	1369.7	1336.6	1303.4
35°	1624.9	1600.4	1575.9	1539.8	1503.8	1467.7	1431.6	1395.6	1359.5	1323.4	1287.4
37.5°	1638.6	1612.0	1585.4	1545.9	1506.4	1466.9	1427.4	1387.9	1348.4	1308.9	1269.4
40°	1648.6	1619.4	1590.2	1547.8	1505.4	1463.0	1420.6	1378.2	1335.8	1293.4	1251.0
42.5°	1659.7	1627.3	1594.9	1549.3	1503.8	1458.2	1412.7	1367.1	1321.6	1276.0	1230.5
45°	1670.2	1634.9	1599.6	1550.6	1501.7	1452.7	1403.7	1354.8	1305.8	1256.8	1207.9
47.5°	1677.6	1638.6	1599.6	1547.7	1495.9	1444.0	1392.1	1340.3	1288.4	1236.5	1184.7
50°	1684.9	1642.3	1599.6	1544.3	1489.0	1433.7	1378.4	1323.2	1267.9	1212.6	1157.3
52.5°	1690.5	1643.9	1597.3	1539.1	1480.9	1422.7	1364.5	1306.3	1248.1	1189.9	1131.7
55°	1698.4	1647.9	1597.3	1535.7	1474.1	1412.4	1350.8	1289.2	1227.6	1165.9	1104.3
57.5°	1703.4	1649.1	1594.9	1530.1	1465.3	1400.6	1335.8	1271.0	1206.2	1141.5	1076.7
60°	1705.5	1647.9	1590.2	1522.5	1454.8	1387.2	1319.5	1251.8	1184.1	1116.5	1048.8
62.5°	1703.2	1643.1	1583.1	1512.3	1441.4	1370.6	1299.8	1228.9	1158.1	1087.3	1016.4
65°	1700.7	1638.3	1575.9	1501.7	1427.4	1353.2	1278.9	1204.7	1130.4	1056.2	981.9
67.5°	1688.6	1625.2	1561.7	1484.8	1407.9	1331.0	1254.1	1177.3	1100.4	1023.5	946.6
70°	1666.0	1602.0	1538.0	1459.3	1380.5	1301.8	1223.1	1144.3	1065.6	986.9	908.1
72.5°	1631.8	1568.4	1504.9	1424.8	1344.8	1264.7	1184.7	1104.6	1024.6	944.5	864.5
75°	1582.8	1520.2	1457.5	1377.7	1297.9	1218.1	1138.3	1058.6	978.8	899.0	819.2
77.5°	1524.0	1463.5	1402.9	1324.2	1245.5	1166.7	1088.0	1009.3	930.6	851.8	773.1
80°	1457.0	1398.0	1339.0	1262.1	1185.2	1108.3	1031.4	954.6	877.7	800.8	723.9
82.5°	1384.0	1327.1	1270.2	1196.2	1122.2	1048.2	974.2	900.3	826.3	752.3	678.3
85°	1315.8	1261.1	1206.3	1134.1	1062.0	989.8	917.7	845.5	773.4	701.2	629.1
87.5°	1252.3	1199.7	1147.0	1077.5	1008.0	938.5	869.0	799.4	729.9	660.4	590.9
90°	1202.6	1152.3	1102.0	1034.3	966.6	899.0	831.3	763.6	695.9	628.3	560.6
92.5°	1158.6	1110.1	1061.7	996.1	930.6	865.0	799.4	733.9	668.3	602.7	537.2
95°	1117.5	1070.7	1023.8	960.1	896.4	832.6	768.9	705.2	641.5	577.7	514.0
97.5°	1077.0	1031.4	985.9	923.8	861.6	799.5	737.3	675.2	613.0	550.9	488.7
100°	1034.6	990.1	945.6	885.3	825.0	764.7	704.4	644.1	583.8	523.5	463.2
102.5°	994.1	950.9	907.7	848.7	789.7	730.7	671.7	612.8	553.8	494.8	435.8
105°	952.2	909.8	867.4	810.3	753.1	696.0	638.8	581.7	524.5	467.4	410.2
107.5°	911.6	870.5	829.4	773.6	717.8	661.9	606.1	550.3	494.5	438.6	382.8
110°	870.5	831.0	791.5	737.3	683.0	628.8	574.5	520.3	466.0	411.8	357.5



TEST NUMBER: P201412

CATALOG NUMBER: 8LBLED-LD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	827.0	789.1	751.2	698.5	645.9	593.2	540.6	487.9	435.3	382.6	330.0
115°	783.7	747.3	711.0	660.2	609.4	558.5	507.7	456.9	406.1	355.2	304.4
117.5°	738.3	703.3	668.3	619.6	570.9	522.2	473.5	424.7	376.0	327.3	278.6
120°	690.7	657.0	623.3	577.0	530.6	484.3	437.9	391.6	345.2	298.9	252.5
122.5°	638.0	604.5	571.1	527.9	484.7	441.6	398.4	355.2	312.0	268.9	225.7
125°	589.8	558.0	526.1	485.3	444.5	403.7	362.9	322.0	281.2	240.4	199.6
127.5°	542.2	511.6	481.1	442.9	404.7	366.6	328.4	290.2	252.0	213.9	175.7
130°	499.0	471.1	443.2	406.9	370.5	334.2	297.8	261.5	225.1	188.8	152.4
132.5°	448.4	422.1	395.8	362.4	328.9	295.5	262.0	228.6	195.1	161.7	128.2
135°	401.0	377.1	353.1	322.3	291.5	260.7	229.9	199.0	168.2	137.4	106.6
137.5°	356.5	334.7	312.8	284.4	255.9	227.5	199.1	170.6	142.2	113.8	85.3
140°	309.4	288.6	267.8	242.5	217.2	192.0	166.7	141.4	116.1	90.9	65.6
142.5°	267.3	248.6	229.9	207.5	185.1	162.7	140.3	118.0	95.6	73.2	50.8
145°	223.8	206.7	189.6	170.6	151.7	132.7	113.8	94.8	75.9	56.9	38.0
147.5°	182.2	167.0	151.7	136.4	121.1	105.9	90.6	75.3	60.0	44.8	29.5
150°	143.5	129.8	116.1	104.3	92.4	80.6	68.7	56.9	45.0	33.2	21.3
152.5°	106.1	94.5	82.9	74.5	66.1	57.6	49.2	40.8	32.4	23.9	15.5
155°	71.6	61.8	52.1	46.8	41.6	36.3	31.0	25.8	20.5	15.2	10.0
157.5°	45.0	37.9	30.8	27.6	24.5	21.3	18.2	15.0	11.9	8.7	5.6
160°	23.7	18.9	14.2	12.9	11.6	10.3	9.0	7.6	6.3	5.0	3.7
162.5°	11.3	9.2	7.1	6.3	5.5	4.7	3.9	3.2	2.4	1.6	0.8
165°	4.0	3.2	2.4	2.1	1.9	1.6	1.3	1.1	0.8	0.5	0.3
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	0.3	0.5	0.8	1.1	1.3	1.6	1.9	2.1
175°	0.0	0.0	0.0	0.3	0.5	0.8	1.1	1.3	1.6	1.9	2.1
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: P201412

CATALOG NUMBER: 8LBLELD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6
2.5°	1585.4	1589.6	1593.8	1598.0	1602.2	1606.5	1610.7	1614.9	1619.1	1623.3	1623.0
5°	1566.5	1572.0	1577.5	1583.1	1588.6	1594.1	1599.6	1605.2	1610.7	1616.2	1618.0
7.5°	1542.8	1549.4	1556.0	1562.5	1569.1	1575.7	1582.3	1588.8	1595.4	1602.0	1605.7
10°	1519.1	1526.5	1533.8	1541.2	1548.6	1555.9	1563.3	1570.7	1578.0	1585.4	1590.9
12.5°	1493.0	1500.6	1508.3	1515.9	1523.5	1531.2	1538.8	1546.4	1554.1	1561.7	1569.3
15°	1464.6	1472.2	1479.9	1487.5	1495.1	1502.8	1510.4	1518.0	1525.7	1533.3	1543.3
17.5°	1433.8	1441.7	1449.6	1457.5	1465.4	1473.3	1481.2	1489.1	1497.0	1504.9	1516.7
20°	1405.3	1412.4	1419.5	1426.6	1433.7	1440.9	1448.0	1455.1	1462.2	1469.3	1483.8
22.5°	1374.5	1380.6	1386.6	1392.7	1398.7	1404.8	1410.8	1416.9	1422.9	1429.0	1446.1
25°	1346.1	1350.6	1355.1	1359.5	1364.0	1368.5	1373.0	1377.4	1381.9	1386.4	1405.9
27.5°	1317.6	1320.2	1322.9	1325.5	1328.1	1330.8	1333.4	1336.0	1338.7	1341.3	1363.7
30°	1291.6	1291.6	1291.6	1291.6	1291.6	1291.6	1291.6	1291.6	1291.6	1291.6	1317.4
32.5°	1270.2	1266.5	1262.8	1259.2	1255.5	1251.8	1248.1	1244.5	1240.8	1237.1	1266.6
35°	1251.3	1243.4	1235.5	1227.6	1219.7	1211.8	1203.9	1196.0	1188.1	1180.2	1213.9
37.5°	1229.9	1218.1	1206.2	1194.4	1182.5	1170.7	1158.8	1147.0	1135.1	1123.3	1161.2
40°	1208.6	1192.5	1176.5	1160.4	1144.4	1128.3	1112.3	1096.2	1080.2	1064.1	1106.5
42.5°	1184.9	1164.9	1144.9	1124.9	1104.9	1084.8	1064.8	1044.8	1024.8	1004.8	1051.7
45°	1158.9	1134.9	1111.0	1087.0	1063.0	1039.1	1015.1	991.1	967.2	943.2	994.5
47.5°	1132.8	1104.4	1075.9	1047.5	1019.0	990.6	962.1	933.7	905.2	876.8	932.9
50°	1102.0	1070.1	1038.3	1006.4	974.5	942.7	910.8	878.9	847.1	815.2	875.2
52.5°	1073.5	1037.4	1001.4	965.3	929.2	893.2	857.1	821.0	785.0	748.9	813.4
55°	1042.7	1002.9	963.2	923.4	883.7	843.9	804.2	764.4	724.7	684.9	753.4
57.5°	1011.9	968.7	925.5	882.4	839.2	796.0	752.8	709.7	666.5	623.3	695.2
60°	981.1	933.7	886.3	838.9	791.5	744.1	696.7	649.3	601.9	554.5	630.6
62.5°	945.6	895.0	844.5	793.9	743.4	692.8	642.3	591.7	541.2	490.6	569.6
65°	907.7	854.5	801.3	748.1	694.9	641.7	588.5	535.3	482.1	428.9	510.8
67.5°	869.7	814.1	758.6	703.0	647.5	591.9	536.4	480.8	425.3	369.7	454.0
70°	829.4	771.7	714.1	656.4	598.7	541.1	483.4	425.7	368.1	310.4	396.8
72.5°	784.4	725.4	666.4	607.5	548.5	489.5	430.5	371.6	312.6	253.6	341.5
75°	739.4	679.4	619.3	559.3	499.3	439.2	379.2	319.2	259.1	199.1	288.1
77.5°	694.4	633.8	573.3	512.7	452.1	391.6	331.0	270.4	209.9	149.3	238.8
80°	647.0	587.0	526.9	466.9	406.8	346.8	286.7	226.7	166.6	106.6	196.1
82.5°	604.3	544.5	484.8	425.0	365.2	305.5	245.7	185.9	126.2	66.4	154.9
85°	556.9	499.0	441.0	383.1	325.2	267.2	209.3	151.4	93.4	35.5	122.4
87.5°	521.4	464.8	408.2	351.5	294.9	238.3	181.7	125.0	68.4	11.8	96.6
90°	492.9	438.1	383.4	328.6	273.8	219.1	164.3	109.5	54.8	0.0	81.9
92.5°	471.6	419.2	366.8	314.4	262.0	209.6	157.2	104.8	52.4	0.0	78.5
95°	450.3	400.3	350.2	300.2	250.2	200.1	150.1	100.1	50.0	0.0	75.6
97.5°	426.6	379.2	331.8	284.4	237.0	189.6	142.2	94.8	47.4	0.0	72.1
100°	402.9	358.1	313.4	268.6	223.8	179.1	134.3	89.5	44.8	0.0	69.0
102.5°	376.8	334.9	293.1	251.2	209.3	167.5	125.6	83.7	41.9	0.0	64.8
105°	353.1	313.9	274.6	235.4	196.2	156.9	117.7	78.5	39.2	0.0	61.4
107.5°	327.0	290.7	254.3	218.0	181.7	145.3	109.0	72.7	36.3	0.0	57.9
110°	303.3	269.6	235.9	202.2	168.5	134.8	101.1	67.4	33.7	0.0	54.2





TEST NUMBER: P201412

CATALOG NUMBER: 8LBLED-LD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	277.3	246.5	215.7	184.9	154.1	123.2	92.4	61.6	30.8	0.0	50.6
115°	253.6	225.4	197.2	169.1	140.9	112.7	84.5	56.4	28.2	0.0	46.3
117.5°	229.9	204.6	179.3	154.1	128.8	103.5	78.2	53.0	27.7	2.4	44.5
120°	206.2	183.6	160.9	138.3	115.6	93.0	70.3	47.7	25.0	2.4	40.6
122.5°	182.5	162.2	141.9	121.7	101.4	81.1	60.8	40.6	20.3	0.0	34.5
125°	158.8	141.4	124.0	106.7	89.3	71.9	54.5	37.2	19.8	2.4	32.4
127.5°	137.5	122.5	107.5	92.5	77.5	62.4	47.4	32.4	17.4	2.4	27.7
130°	116.1	103.5	90.8	78.2	65.6	52.9	40.3	27.7	15.0	2.4	22.9
132.5°	94.8	84.5	74.3	64.0	53.7	43.5	33.2	22.9	12.7	2.4	19.0
135°	75.8	67.6	59.5	51.3	43.2	35.0	26.9	18.7	10.6	2.4	15.3
137.5°	56.9	50.8	44.8	38.7	32.7	26.6	20.6	14.5	8.5	2.4	12.1
140°	40.3	36.1	31.9	27.7	23.5	19.2	15.0	10.8	6.6	2.4	9.2
142.5°	28.4	25.5	22.6	19.7	16.8	14.0	11.1	8.2	5.3	2.4	7.1
145°	19.0	17.2	15.3	13.5	11.6	9.8	7.9	6.1	4.2	2.4	5.8
147.5°	14.2	12.9	11.6	10.3	9.0	7.6	6.3	5.0	3.7	2.4	4.5
150°	9.5	8.7	7.9	7.1	6.3	5.6	4.8	4.0	3.2	2.4	4.0
152.5°	7.1	6.6	6.1	5.5	5.0	4.5	4.0	3.4	2.9	2.4	3.4
155°	4.7	4.4	4.2	3.9	3.7	3.4	3.2	2.9	2.7	2.4	2.9
157.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.7
160°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
162.5°	0.0	0.3	0.5	0.8	1.1	1.3	1.6	1.9	2.1	2.4	2.4
165°	0.0	0.3	0.5	0.8	1.1	1.3	1.6	1.9	2.1	2.4	2.1
167.5°	0.0	0.3	0.5	0.8	1.1	1.3	1.6	1.9	2.1	2.4	2.1
170°	0.0	0.3	0.5	0.8	1.1	1.3	1.6	1.9	2.1	2.4	2.1
172.5°	2.4	2.7	2.9	3.2	3.4	3.7	3.9	4.2	4.4	4.7	4.2
175°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.1
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: P201412

CATALOG NUMBER: 8LBLELD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6
2.5°	1622.8	1622.5	1622.3	1622.0	1621.8	1621.5	1621.3	1621.0	1622.3	1623.6	1624.9
5°	1619.9	1621.7	1623.6	1625.4	1627.3	1629.1	1631.0	1632.8	1635.7	1638.6	1641.5
7.5°	1609.4	1613.1	1616.8	1620.4	1624.1	1627.8	1631.5	1635.2	1639.9	1644.7	1649.4
10°	1596.5	1602.0	1607.5	1613.1	1618.6	1624.1	1629.7	1635.2	1642.0	1648.9	1655.7
12.5°	1577.0	1584.6	1592.3	1599.9	1607.6	1615.2	1622.9	1630.5	1640.2	1650.0	1659.7
15°	1553.3	1563.3	1573.3	1583.3	1593.3	1603.3	1613.3	1623.3	1636.2	1649.1	1662.0
17.5°	1528.6	1540.4	1552.3	1564.1	1576.0	1587.8	1599.7	1611.5	1628.1	1644.7	1661.3
20°	1498.3	1512.7	1527.2	1541.7	1556.2	1570.6	1585.1	1599.6	1620.7	1641.7	1662.8
22.5°	1463.2	1480.4	1497.5	1514.6	1531.7	1548.9	1566.0	1583.1	1610.2	1637.3	1664.4
25°	1425.4	1444.8	1464.3	1483.8	1503.3	1522.7	1542.2	1561.7	1594.9	1628.1	1661.2
27.5°	1386.1	1408.5	1430.9	1453.2	1475.6	1498.0	1520.4	1542.8	1581.8	1620.7	1659.7
30°	1343.2	1369.0	1394.8	1420.6	1446.4	1472.2	1498.0	1523.8	1568.0	1612.3	1656.5
32.5°	1296.1	1325.6	1355.1	1384.5	1414.0	1443.5	1473.0	1502.5	1552.0	1601.5	1651.0
35°	1247.6	1281.3	1315.0	1348.7	1382.4	1416.1	1449.8	1483.5	1537.5	1591.5	1645.4
37.5°	1199.1	1237.1	1275.0	1312.9	1350.8	1388.8	1426.7	1464.6	1523.1	1581.5	1640.0
40°	1148.9	1191.3	1233.7	1276.0	1318.4	1360.8	1403.2	1445.6	1508.5	1571.5	1634.4
42.5°	1098.5	1145.4	1192.3	1239.1	1286.0	1332.9	1379.7	1426.6	1493.5	1560.4	1627.3
45°	1045.9	1097.2	1148.6	1199.9	1251.3	1302.6	1354.0	1405.3	1476.1	1547.0	1617.8
47.5°	989.0	1045.1	1101.2	1157.2	1213.3	1269.4	1325.5	1381.6	1456.6	1531.7	1606.7
50°	935.3	995.3	1055.4	1115.4	1175.5	1235.5	1295.6	1355.6	1434.3	1513.0	1591.8
52.5°	877.9	942.4	1006.9	1071.5	1136.0	1200.5	1265.0	1329.5	1411.4	1493.3	1575.2
55°	821.8	890.3	958.7	1027.2	1095.6	1164.1	1232.5	1301.0	1386.6	1472.2	1557.7
57.5°	767.1	838.9	910.8	982.7	1054.6	1126.4	1198.3	1270.2	1359.2	1448.2	1537.2
60°	706.7	782.8	858.9	935.0	1011.1	1087.2	1163.3	1239.4	1331.8	1424.2	1516.7
62.5°	648.6	727.6	806.6	885.5	964.5	1043.5	1122.5	1201.5	1297.3	1393.2	1489.0
65°	592.7	674.6	756.5	838.4	920.3	1002.2	1084.1	1166.0	1264.7	1363.5	1462.2
67.5°	538.2	622.5	706.7	791.0	875.2	959.5	1043.7	1128.0	1229.9	1331.8	1433.7
70°	483.2	569.5	655.9	742.3	828.7	915.0	1001.4	1087.8	1192.1	1296.3	1400.6
72.5°	429.5	517.4	605.4	693.3	781.3	869.2	957.2	1045.1	1150.7	1256.3	1361.9
75°	377.1	466.1	555.1	644.1	733.1	822.1	911.1	1000.1	1106.7	1213.4	1320.0
77.5°	328.3	417.9	507.4	596.9	686.4	776.0	865.5	955.0	1061.6	1168.3	1274.9
80°	285.7	375.2	464.7	554.3	643.8	733.3	822.9	912.4	1018.0	1123.6	1229.2
82.5°	243.3	331.8	420.3	508.7	597.2	685.7	774.1	862.6	967.7	1072.7	1177.8
85°	209.3	296.2	383.1	470.0	556.9	643.8	730.7	817.6	921.1	1024.6	1128.0
87.5°	181.4	266.2	351.0	435.7	520.5	605.3	690.1	774.9	876.3	977.7	1079.0
90°	163.8	245.7	327.6	409.4	491.3	573.2	655.1	737.0	836.3	935.6	1034.8
92.5°	156.9	235.4	313.9	392.3	470.8	549.3	627.7	706.2	803.9	901.6	999.3
95°	151.1	226.7	302.3	377.8	453.4	529.0	604.5	680.1	776.0	871.8	967.7
97.5°	144.3	216.4	288.6	360.7	432.9	505.0	577.2	649.3	743.8	838.4	932.9
100°	138.0	207.0	276.0	344.9	413.9	482.9	551.9	620.9	713.9	806.8	899.8
102.5°	129.6	194.3	259.1	323.9	388.7	453.4	518.2	583.0	674.9	766.8	858.7
105°	122.7	184.1	245.4	306.8	368.1	429.5	490.8	552.2	642.0	731.8	821.6
107.5°	115.9	173.8	231.7	289.7	347.6	405.5	463.5	521.4	609.3	697.3	785.2
110°	108.5	162.7	217.0	271.2	325.5	379.7	434.0	488.2	574.0	659.9	745.7



TEST NUMBER: P201412

CATALOG NUMBER: 8LBLED-LD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	101.1	151.7	202.2	252.8	303.3	353.9	404.4	455.0	538.2	621.4	704.6
115°	92.7	139.0	185.4	231.7	278.1	324.4	370.8	417.1	497.7	578.3	658.8
117.5°	86.6	128.8	170.9	213.0	255.1	297.3	339.4	381.5	459.4	537.4	615.3
120°	78.8	116.9	155.1	193.3	231.5	269.6	307.8	346.0	421.3	496.6	571.9
122.5°	69.0	103.5	138.0	172.4	206.9	241.4	275.9	310.4	382.6	454.7	526.9
125°	62.4	92.4	122.4	152.5	182.5	212.5	242.5	272.5	341.5	410.5	479.5
127.5°	53.0	78.2	103.5	128.8	154.1	179.3	204.6	229.9	294.9	360.0	425.0
130°	43.5	64.0	84.5	105.1	125.6	146.1	166.7	187.2	246.4	305.7	364.9
132.5°	35.6	52.2	68.8	85.3	101.9	118.5	135.1	151.7	204.9	258.1	311.3
135°	28.2	41.1	54.0	66.9	79.8	92.7	105.6	118.5	165.6	212.8	259.9
137.5°	21.9	31.6	41.4	51.1	60.9	70.6	80.4	90.1	132.0	173.8	215.7
140°	16.1	22.9	29.8	36.6	43.5	50.3	57.2	64.0	100.9	137.7	174.6
142.5°	11.9	16.6	21.3	26.1	30.8	35.5	40.3	45.0	76.6	108.2	139.8
145°	9.2	12.7	16.1	19.5	22.9	26.4	29.8	33.2	59.3	85.3	111.4
147.5°	6.6	8.7	10.8	12.9	15.0	17.1	19.2	21.3	42.9	64.5	86.1
150°	5.6	7.1	8.7	10.3	11.9	13.4	15.0	16.6	32.9	49.2	65.6
152.5°	4.5	5.5	6.6	7.6	8.7	9.7	10.8	11.8	23.7	35.5	47.4
155°	3.4	4.0	4.5	5.0	5.5	6.1	6.6	7.1	15.0	22.9	30.8
157.5°	2.9	3.2	3.4	3.7	3.9	4.2	4.4	4.7	9.4	14.2	18.9
160°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	5.0	7.7	10.3
162.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.2	4.0	4.8
165°	1.9	1.6	1.3	1.1	0.8	0.5	0.3	0.0	0.3	0.5	0.8
167.5°	1.9	1.6	1.3	1.1	0.8	0.5	0.3	0.0	0.0	0.0	0.0
170°	1.9	1.6	1.3	1.1	0.8	0.5	0.3	0.0	0.0	0.0	0.0
172.5°	3.7	3.1	2.6	2.1	1.6	1.0	0.5	0.0	0.0	0.0	0.0
175°	1.9	1.6	1.3	1.1	0.8	0.5	0.3	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: P201412

CATALOG NUMBER: 8LBLEDD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6
2.5°	1626.2	1627.6	1628.9	1630.2	1631.5	1632.8	1633.1	1633.3	1633.6	1633.9	1634.1
5°	1644.4	1647.3	1650.2	1653.1	1656.0	1658.9	1660.2	1661.5	1662.8	1664.1	1665.5
7.5°	1654.1	1658.9	1663.6	1668.3	1673.1	1677.8	1681.5	1685.2	1688.9	1692.6	1696.2
10°	1662.6	1669.4	1676.3	1683.1	1690.0	1696.8	1702.9	1708.9	1715.0	1721.0	1727.1
12.5°	1669.4	1679.2	1688.9	1698.6	1708.4	1718.1	1726.5	1735.0	1743.4	1751.8	1760.3
15°	1674.9	1687.9	1700.8	1713.7	1726.6	1739.5	1750.6	1761.6	1772.7	1783.7	1794.8
17.5°	1677.9	1694.4	1711.0	1727.6	1744.2	1760.8	1776.6	1792.4	1808.2	1824.0	1839.8
20°	1683.9	1704.9	1726.0	1747.1	1768.1	1789.2	1808.7	1828.2	1847.7	1867.2	1886.6
22.5°	1691.5	1718.7	1745.8	1772.9	1800.0	1827.1	1849.2	1871.3	1893.5	1915.6	1937.7
25°	1694.4	1727.6	1760.8	1793.9	1827.1	1860.3	1885.3	1910.3	1935.4	1960.4	1985.4
27.5°	1698.7	1737.6	1776.6	1815.6	1854.5	1893.5	1921.1	1948.8	1976.4	2004.1	2031.7
30°	1700.7	1745.0	1789.2	1833.4	1877.7	1921.9	1952.2	1982.5	2012.8	2043.1	2073.3
32.5°	1700.5	1750.0	1799.5	1849.0	1898.5	1948.0	1981.4	2014.9	2048.3	2081.8	2115.2
35°	1699.4	1753.4	1807.4	1861.3	1915.3	1969.3	2006.2	2043.0	2079.9	2116.8	2153.6
37.5°	1698.4	1756.9	1815.3	1873.8	1932.2	1990.7	2030.7	2070.7	2110.8	2150.8	2190.8
40°	1697.3	1760.3	1823.2	1886.1	1949.1	2012.0	2054.9	2097.8	2140.8	2183.7	2226.6
42.5°	1694.2	1761.0	1827.9	1894.8	1961.7	2028.6	2075.2	2121.8	2168.4	2215.0	2261.6
45°	1688.6	1759.5	1830.3	1901.1	1972.0	2042.8	2092.8	2142.9	2192.9	2242.9	2293.0
47.5°	1681.8	1756.8	1831.9	1906.9	1982.0	2057.0	2111.0	2165.0	2218.9	2272.9	2326.9
50°	1670.5	1749.2	1827.9	1906.7	1985.4	2064.1	2122.0	2180.0	2237.9	2295.8	2353.8
52.5°	1657.1	1738.9	1820.8	1902.7	1984.6	2066.5	2128.9	2191.3	2253.7	2316.1	2378.6
55°	1643.3	1728.9	1814.5	1900.0	1985.6	2071.2	2137.6	2203.9	2270.3	2336.6	2403.0
57.5°	1626.2	1715.2	1804.2	1893.2	1982.2	2071.2	2141.2	2211.3	2281.3	2351.4	2421.4
60°	1609.1	1701.5	1793.9	1886.4	1978.8	2071.2	2144.4	2217.6	2290.8	2364.0	2437.3
62.5°	1584.9	1680.7	1776.6	1872.4	1968.3	2064.1	2140.2	2216.3	2292.4	2368.5	2444.6
65°	1561.0	1659.7	1758.5	1857.2	1956.0	2054.7	2133.4	2212.1	2290.9	2369.6	2448.3
67.5°	1535.6	1637.6	1739.5	1841.4	1943.3	2045.2	2125.5	2205.8	2286.1	2366.4	2446.8
70°	1504.9	1609.1	1713.4	1817.7	1921.9	2026.2	2107.8	2189.5	2271.1	2352.7	2434.4
72.5°	1467.5	1573.0	1678.6	1784.2	1889.8	1995.4	2078.3	2161.3	2244.2	2327.2	2410.1
75°	1426.7	1533.3	1640.0	1746.6	1853.3	1959.9	2043.4	2126.8	2210.3	2293.8	2377.2
77.5°	1381.6	1488.2	1594.9	1701.5	1808.2	1914.8	1998.0	2081.2	2164.4	2247.6	2330.9
80°	1334.8	1440.3	1545.9	1651.5	1757.1	1862.7	1945.4	2028.1	2110.7	2193.4	2276.1
82.5°	1282.9	1387.9	1493.0	1598.1	1703.1	1808.2	1889.3	1970.4	2051.5	2132.6	2213.7
85°	1231.5	1335.0	1438.5	1541.9	1645.4	1748.9	1829.0	1909.0	1989.1	2069.1	2149.2
87.5°	1180.4	1281.8	1383.2	1484.5	1585.9	1687.3	1765.5	1843.7	1921.9	2000.1	2078.4
90°	1134.1	1233.4	1332.7	1431.9	1531.2	1630.5	1706.6	1782.7	1858.8	1934.9	2010.9
92.5°	1097.0	1194.6	1292.3	1390.0	1487.7	1585.4	1659.7	1733.9	1808.2	1882.4	1956.7
95°	1063.5	1159.4	1255.2	1351.1	1446.9	1542.8	1616.0	1689.2	1762.4	1835.6	1908.8
97.5°	1027.4	1122.0	1216.5	1311.0	1405.6	1500.1	1570.7	1641.2	1711.8	1782.4	1852.9
100°	992.7	1085.7	1178.6	1271.6	1364.5	1457.5	1526.5	1595.5	1664.5	1733.5	1802.4
102.5°	950.6	1042.5	1134.4	1226.3	1318.2	1410.1	1478.0	1546.0	1613.9	1681.8	1749.8
105°	911.4	1001.1	1090.9	1180.7	1270.5	1360.3	1427.2	1494.1	1560.9	1627.8	1694.7
107.5°	873.2	961.1	1049.1	1137.0	1225.0	1312.9	1377.9	1443.0	1508.0	1573.0	1638.1
110°	831.6	917.4	1003.3	1089.1	1175.0	1260.8	1324.5	1388.2	1452.0	1515.7	1579.4



TEST NUMBER: P201412

CATALOG NUMBER: 8LBLED-LD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	787.8	871.1	954.3	1037.5	1120.7	1203.9	1266.0	1328.2	1390.3	1452.5	1514.6
115°	739.4	820.0	900.6	981.1	1061.7	1142.3	1203.4	1264.5	1325.6	1386.7	1447.7
117.5°	693.3	771.2	849.2	927.1	1005.1	1083.0	1142.0	1201.0	1260.0	1319.0	1377.9
120°	647.2	722.6	797.9	873.2	948.5	1023.8	1080.4	1137.0	1193.6	1250.2	1306.9
122.5°	599.0	671.2	743.3	815.5	887.6	959.8	1014.3	1068.8	1123.3	1177.8	1232.3
125°	548.5	617.4	686.4	755.4	824.4	893.4	945.5	997.7	1049.8	1102.0	1154.1
127.5°	490.0	555.1	620.1	685.1	750.2	815.2	866.0	916.8	967.7	1018.5	1069.3
130°	424.2	483.4	542.7	601.9	661.2	720.4	771.8	823.1	874.5	925.8	977.2
132.5°	364.5	417.6	470.8	524.0	577.2	630.4	681.2	732.0	782.9	833.7	884.5
135°	307.0	354.2	401.3	448.4	495.6	542.7	592.5	642.2	692.0	741.8	791.5
137.5°	257.6	299.4	341.3	383.2	425.0	466.9	513.2	559.6	605.9	652.3	698.6
140°	211.5	248.3	285.2	322.1	358.9	395.8	437.1	478.5	519.8	561.1	602.5
142.5°	171.4	203.0	234.6	266.2	297.8	329.4	365.7	402.1	438.4	474.7	511.1
145°	137.5	163.5	189.6	215.7	241.7	267.8	299.1	330.5	361.8	393.1	424.5
147.5°	107.7	129.3	150.9	172.5	194.1	215.7	242.0	268.3	294.7	321.0	347.3
150°	81.9	98.2	114.5	130.9	147.2	163.5	185.9	208.3	230.7	253.1	275.4
152.5°	59.2	71.1	82.9	94.8	106.6	118.5	136.9	155.4	173.8	192.2	210.7
155°	38.7	46.6	54.5	62.4	70.3	78.2	92.7	107.2	121.6	136.1	150.6
157.5°	23.7	28.4	33.2	37.9	42.7	47.4	58.2	69.0	79.8	90.6	101.4
160°	12.9	15.6	18.2	20.8	23.5	26.1	32.9	39.8	46.6	53.5	60.3
162.5°	5.6	6.3	7.1	7.9	8.7	9.5	13.4	17.4	21.3	25.3	29.2
165°	1.1	1.3	1.6	1.9	2.1	2.4	4.0	5.6	7.1	8.7	10.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.8	1.1	1.3
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: P201412

CATALOG NUMBER: 8LBLEDD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6	1599.6
2.5°	1634.4	1634.7	1634.9	1635.2	1633.9	1632.6	1631.2	1629.9	1628.6	1627.3	1625.9
5°	1666.8	1668.1	1669.4	1670.7	1671.0	1671.2	1671.5	1671.8	1672.0	1672.3	1672.6
7.5°	1699.9	1703.6	1707.3	1711.0	1711.3	1711.5	1711.8	1712.1	1712.3	1712.6	1712.9
10°	1733.1	1739.2	1745.2	1751.3	1752.1	1752.9	1753.7	1754.5	1755.2	1756.0	1756.8
12.5°	1768.7	1777.1	1785.6	1794.0	1796.1	1798.2	1800.3	1802.4	1804.5	1806.6	1808.7
15°	1805.8	1816.9	1827.9	1839.0	1843.5	1848.0	1852.4	1856.9	1861.4	1865.9	1870.3
17.5°	1855.6	1871.4	1887.2	1903.0	1908.0	1913.0	1918.0	1923.0	1928.0	1933.0	1938.0
20°	1906.1	1925.6	1945.1	1964.6	1970.9	1977.2	1983.6	1989.9	1996.2	2002.5	2008.9
22.5°	1959.8	1982.0	2004.1	2026.2	2033.6	2041.0	2048.3	2055.7	2063.1	2070.5	2077.8
25°	2010.4	2035.5	2060.5	2085.5	2093.7	2101.8	2110.0	2118.1	2126.3	2134.4	2142.6
27.5°	2059.4	2087.0	2114.7	2142.3	2151.8	2161.3	2170.8	2180.3	2189.7	2199.2	2208.7
30°	2103.6	2133.9	2164.2	2194.5	2205.6	2216.6	2227.7	2238.7	2249.8	2260.8	2271.9
32.5°	2148.7	2182.1	2215.6	2249.0	2261.4	2273.8	2286.1	2298.5	2310.9	2323.3	2335.6
35°	2190.5	2227.4	2264.2	2301.1	2315.1	2329.0	2343.0	2356.9	2370.9	2384.8	2398.8
37.5°	2230.8	2270.9	2310.9	2350.9	2366.4	2382.0	2397.5	2413.0	2428.6	2444.1	2459.6
40°	2269.5	2312.5	2355.4	2398.3	2415.7	2433.1	2450.4	2467.8	2485.2	2502.6	2519.9
42.5°	2308.2	2354.8	2401.4	2448.0	2467.0	2485.9	2504.9	2523.9	2542.8	2561.8	2580.8
45°	2343.0	2393.0	2443.1	2493.1	2514.2	2535.2	2556.3	2577.4	2598.4	2619.5	2640.6
47.5°	2380.9	2434.8	2488.8	2542.8	2565.4	2588.1	2610.7	2633.4	2656.0	2678.7	2701.3
50°	2411.7	2469.6	2527.6	2585.5	2610.0	2634.5	2659.0	2683.5	2707.9	2732.4	2756.9
52.5°	2441.0	2503.4	2565.8	2628.2	2654.5	2680.8	2707.2	2733.5	2759.8	2786.1	2812.5
55°	2469.3	2535.7	2602.0	2668.4	2696.1	2723.7	2751.4	2779.0	2806.7	2834.3	2862.0
57.5°	2491.5	2561.5	2631.6	2701.6	2730.8	2760.1	2789.3	2818.5	2847.8	2877.0	2906.2
60°	2510.5	2583.7	2656.9	2730.1	2760.4	2790.7	2820.9	2851.2	2881.5	2911.8	2942.0
62.5°	2520.7	2596.8	2672.9	2749.0	2780.3	2811.7	2843.0	2874.3	2905.7	2937.0	2968.3
65°	2527.0	2605.8	2684.5	2763.2	2794.8	2826.4	2858.0	2889.6	2921.2	2952.8	2984.4
67.5°	2527.1	2607.4	2687.7	2768.0	2799.9	2831.7	2863.6	2895.4	2927.3	2959.1	2991.0
70°	2516.0	2597.6	2679.3	2760.9	2793.0	2825.1	2857.3	2889.4	2921.5	2953.6	2985.8
72.5°	2493.1	2576.0	2659.0	2741.9	2774.0	2806.1	2838.3	2870.4	2902.5	2934.6	2966.8
75°	2460.7	2544.2	2627.6	2711.1	2743.0	2774.8	2806.7	2838.6	2870.4	2902.3	2934.2
77.5°	2414.1	2497.3	2580.5	2663.7	2695.3	2726.9	2758.5	2790.1	2821.7	2853.3	2884.9
80°	2358.8	2441.4	2524.1	2606.8	2638.1	2669.5	2700.8	2732.1	2763.5	2794.8	2826.1
82.5°	2294.8	2375.9	2457.0	2538.1	2569.2	2600.2	2631.3	2662.4	2693.4	2724.5	2755.6
85°	2229.2	2309.3	2389.3	2469.4	2499.7	2530.0	2560.2	2590.5	2620.8	2651.1	2681.3
87.5°	2156.6	2234.8	2313.0	2391.2	2421.2	2451.2	2481.2	2511.2	2541.3	2571.3	2601.3
90°	2087.0	2163.1	2239.2	2315.3	2344.8	2374.3	2403.8	2433.3	2462.8	2492.3	2521.8
92.5°	2030.9	2105.2	2179.4	2253.7	2282.1	2310.6	2339.0	2367.5	2395.9	2424.4	2452.8
95°	1982.0	2055.2	2128.4	2201.6	2228.5	2255.3	2282.2	2309.0	2335.9	2362.7	2389.6
97.5°	1923.5	1994.1	2064.6	2135.2	2162.1	2188.9	2215.8	2242.7	2269.5	2296.4	2323.3
100°	1871.4	1940.4	2009.4	2078.4	2104.2	2130.0	2155.8	2181.6	2207.4	2233.2	2259.0
102.5°	1817.7	1885.6	1953.6	2021.5	2046.5	2071.5	2096.5	2121.5	2146.6	2171.6	2196.6
105°	1761.6	1828.4	1895.3	1962.2	1986.7	2011.2	2035.7	2060.2	2084.6	2109.1	2133.6
107.5°	1703.1	1768.1	1833.2	1898.2	1922.4	1946.7	1970.9	1995.1	2019.4	2043.6	2067.8
110°	1643.1	1706.9	1770.6	1834.3	1858.0	1881.7	1905.4	1929.1	1952.7	1976.4	2000.1



TEST NUMBER: P201412

CATALOG NUMBER: 8LBLED-LD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1576.8	1638.9	1701.1	1763.2	1786.1	1809.0	1831.9	1854.8	1877.7	1900.6	1923.5
115°	1508.8	1569.9	1631.0	1692.1	1714.2	1736.3	1758.4	1780.5	1802.7	1824.8	1846.9
117.5°	1436.9	1495.9	1554.9	1613.9	1635.5	1657.1	1678.7	1700.3	1721.8	1743.4	1765.0
120°	1363.5	1420.1	1476.7	1533.3	1554.4	1575.4	1596.5	1617.6	1638.6	1659.7	1680.8
122.5°	1286.8	1341.3	1395.8	1450.3	1470.6	1490.9	1511.1	1531.4	1551.7	1572.0	1592.2
125°	1206.3	1258.4	1310.6	1362.7	1382.4	1402.2	1421.9	1441.7	1461.4	1481.2	1500.9
127.5°	1120.1	1171.0	1221.8	1272.6	1291.6	1310.5	1329.5	1348.4	1367.4	1386.3	1405.3
130°	1028.5	1079.9	1131.2	1182.6	1200.5	1218.4	1236.3	1254.2	1272.1	1290.0	1307.9
132.5°	935.3	986.2	1037.0	1087.8	1105.2	1122.6	1139.9	1157.3	1174.7	1192.1	1209.4
135°	841.3	891.1	940.8	990.6	1007.2	1023.8	1040.4	1057.0	1073.5	1090.1	1106.7
137.5°	745.0	791.3	837.7	884.0	900.3	916.6	933.0	949.3	965.6	981.9	998.3
140°	643.8	685.1	726.5	767.8	784.9	802.0	819.2	836.3	853.4	870.5	887.7
142.5°	547.4	583.7	620.1	656.4	674.3	692.2	710.1	728.0	746.0	763.9	781.8
145°	455.8	487.1	518.5	549.8	568.8	587.7	606.7	625.6	644.6	663.5	682.5
147.5°	373.6	400.0	426.3	452.6	471.8	491.0	510.3	529.5	548.7	567.9	587.2
150°	297.8	320.2	342.6	365.0	382.9	400.8	418.7	436.6	454.5	472.4	490.3
152.5°	229.1	247.5	266.0	284.4	301.0	317.6	334.2	350.8	367.3	383.9	400.5
155°	165.1	179.5	194.0	208.5	223.8	239.1	254.3	269.6	284.9	300.2	315.4
157.5°	112.2	123.0	133.8	144.6	157.5	170.4	183.3	196.2	209.1	222.0	234.9
160°	67.2	74.0	80.9	87.7	98.0	108.2	118.5	128.8	139.0	149.3	159.6
162.5°	33.2	37.1	41.1	45.0	52.1	59.2	66.3	73.4	80.6	87.7	94.8
165°	11.9	13.4	15.0	16.6	20.8	25.0	29.2	33.4	37.7	41.9	46.1
167.5°	1.6	1.9	2.1	2.4	4.0	5.6	7.1	8.7	10.3	11.9	13.4
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: P201412

CATALOG NUMBER: 8LBLED-LD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	1599.6	1599.6
2.5°	1624.6	1623.3
5°	1672.8	1673.1
7.5°	1713.1	1713.4
10°	1757.6	1758.4
12.5°	1810.8	1812.9
15°	1874.8	1879.3
17.5°	1943.0	1948.0
20°	2015.2	2021.5
22.5°	2085.2	2092.6
25°	2150.7	2158.9
27.5°	2218.2	2227.7
30°	2282.9	2294.0
32.5°	2348.0	2360.4
35°	2412.7	2426.7
37.5°	2475.2	2490.7
40°	2537.3	2554.7
42.5°	2599.7	2618.7
45°	2661.6	2682.7
47.5°	2724.0	2746.6
50°	2781.4	2805.9
52.5°	2838.8	2865.1
55°	2889.6	2917.3
57.5°	2935.5	2964.7
60°	2972.3	3002.6
62.5°	2999.7	3031.0
65°	3016.0	3047.6
67.5°	3022.8	3054.7
70°	3017.9	3050.0
72.5°	2998.9	3031.0
75°	2966.0	2997.9
77.5°	2916.5	2948.1
80°	2857.5	2888.8
82.5°	2786.6	2817.7
85°	2711.6	2741.9
87.5°	2631.3	2661.3
90°	2551.3	2580.8
92.5°	2481.3	2509.7
95°	2416.4	2443.3
97.5°	2350.1	2377.0
100°	2284.8	2310.6
102.5°	2221.6	2246.6
105°	2158.1	2182.6
107.5°	2092.1	2116.3
110°	2023.8	2047.5





TEST NUMBER: P201412

CATALOG NUMBER: 8LBLED-LD4-14-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
112.5°	1946.4	1969.3
115°	1869.0	1891.1
117.5°	1786.6	1808.2
120°	1701.8	1722.9
122.5°	1612.5	1632.8
125°	1520.7	1540.4
127.5°	1424.2	1443.2
130°	1325.8	1343.7
132.5°	1226.8	1244.2
135°	1123.3	1139.9
137.5°	1014.6	1030.9
140°	904.8	921.9
142.5°	799.7	817.6
145°	701.4	720.4
147.5°	606.4	625.6
150°	508.2	526.1
152.5°	417.1	433.7
155°	330.7	346.0
157.5°	247.8	260.7
160°	169.8	180.1
162.5°	101.9	109.0
165°	50.3	54.5
167.5°	15.0	16.6
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)