

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: P201411

Luminaire Tested: **8LBLED-LD4-14-ASYMW-UNV-L835-CD2-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P201411  
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-L835-CD2-U  
Description: 8 ft. Low Bay Linear, 9000 lm, Wht Asym lens, 3.5K  
Light Source: (616) 3500K CCT, 80 CRI LEDS  
2UT217098A8350C, 2UT217056A8350B  
Ballast/Driver: OSRAM  
(OT85W01600CC), (OT50W0880CC)

**Summary**

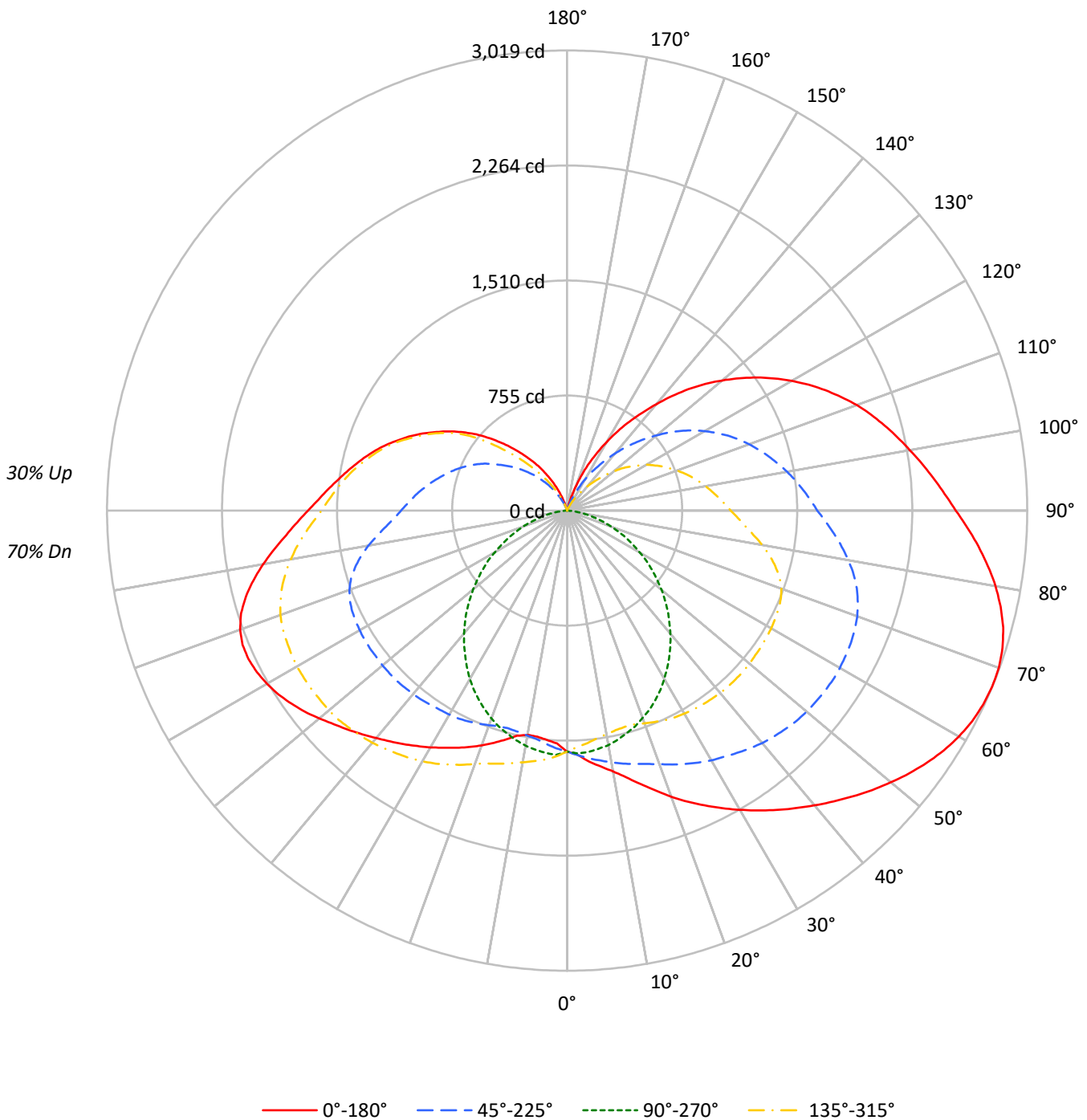
Lumens per Lamp: N/A  
Luminaire Lumens: 14405.1 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Spacing Criteria (0/90/45): 2.07 / 1.2 / 1.84  
Luminous Opening: Rectangular w/ Sides (W: 8' x L: 0.17' x H: 0.21')  
CIE Type: Semi-Direct  
  
Input Watts (W): 117.46  
Input Voltage (V): NR  
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										
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	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°	12735	12735	12735	12735
5°	12057	12831	11016	12887
10°	11656	12721	10022	12759
15°	11613	12512	9725	12550
20°	11785	12292	9671	12332
25°	11997	12033	9653	12033
30°	12268	11676	9707	11698
35°	12598	11288	9830	11265
40°	12983	10847	10020	10823
45°	13451	10377	10314	10350
50°	13989	9822	10705	9794
55°	14573	9230	11163	9166
60°	15143	8485	11605	8450
65°	15640	7738	11979	7654
70°	16055	6796	12163	6745
75°	16327	5650	12029	5582
80°	16426	4165	11656	4262
85°	16439	2166	11224	2501



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.0	1.0
10°-20°	454.7	3.2
20°-30°	765.8	5.3
30°-40°	1063.4	7.4
40°-50°	1331.2	9.2
50°-60°	1548.0	10.7
60°-70°	1677.8	11.6
70°-80°	1652.5	11.5
80°-90°	1464.3	10.2
90°-100°	1262.8	8.8
100°-110°	1063.2	7.4
110°-120°	832.2	5.8
120°-130°	583.2	4.0
130°-140°	344.3	2.4
140°-150°	158.6	1.1
150°-160°	47.6	0.3
160°-170°	4.4	0.0
170°-180°	0.0	0.0
0°-30°	1371.5	9.5
0°-40°	2435.0	16.9
0°-60°	5314.2	36.9
0°-90°	10108.8	70.2
90°-120°	3158.2	21.9
90°-150°	4244.4	29.5
90°-180°	4296.0	29.8
0°-180°	14405.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1581	1581	1581	1581	1581	
5°	1653	1590	1510	1597	1653	160
15°	1857	1510	1555	1515	1857	531
25°	2133	1370	1716	1370	2133	991
35°	2398	1169	1871	1166	2398	1509
45°	2651	934	2033	932	2651	2055
55°	2883	682	2208	677	2883	2584
65°	3012	428	2307	424	3012	2982
75°	2962	199	2183	197	2962	3122
85°	2710	30	1850	35	2710	2243
90°	2550	0	1700	0	2550	1399
95°	2414	0	1576	0	2414	1946
105°	2157	0	1368	0	2157	2281
115°	1869	0	1148	0	1869	1854
125°	1522	0	904	2	1522	1366
135°	1126	0	642	2	1126	874
145°	712	0	396	2	712	453
155°	342	0	171	2	342	164
165°	54	0	9	2	54	22
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°	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7
2.5°	1604.1	1603.8	1603.6	1603.3	1603.1	1602.8	1602.6	1602.3	1602.1	1601.8	1602.3
5°	1653.3	1651.5	1649.7	1647.8	1646.0	1644.2	1642.4	1640.5	1638.7	1636.9	1636.4
7.5°	1693.1	1690.8	1688.4	1686.1	1683.7	1681.4	1679.0	1676.7	1674.3	1672.0	1669.9
10°	1737.6	1734.2	1730.8	1727.5	1724.1	1720.7	1717.3	1714.0	1710.6	1707.2	1703.8
12.5°	1791.5	1787.1	1782.7	1778.2	1773.8	1769.4	1765.0	1760.5	1756.1	1751.7	1746.0
15°	1857.0	1851.3	1845.6	1839.8	1834.1	1828.4	1822.7	1816.9	1811.2	1805.5	1796.1
17.5°	1925.0	1918.8	1912.5	1906.3	1900.0	1893.8	1887.5	1881.3	1875.0	1868.8	1854.7
20°	1997.6	1989.5	1981.5	1973.4	1965.3	1957.3	1949.2	1941.1	1933.1	1925.0	1907.8
22.5°	2067.8	2058.4	2049.1	2039.7	2030.3	2021.0	2011.6	2002.2	1992.9	1983.5	1963.5
25°	2133.4	2123.2	2113.1	2102.9	2092.8	2082.6	2072.5	2062.3	2052.2	2042.0	2018.8
27.5°	2201.3	2189.9	2178.4	2167.0	2155.5	2144.1	2132.6	2121.2	2109.7	2098.3	2072.3
30°	2266.9	2254.4	2241.9	2229.4	2216.9	2204.5	2192.0	2179.5	2167.0	2154.5	2125.4
32.5°	2332.4	2318.6	2304.8	2291.0	2277.2	2263.5	2249.7	2235.9	2222.1	2208.3	2175.8
35°	2398.0	2382.9	2367.8	2352.7	2337.6	2322.6	2307.5	2292.4	2277.3	2262.2	2226.6
37.5°	2461.2	2444.8	2428.4	2412.0	2395.6	2379.3	2362.9	2346.5	2330.1	2313.7	2275.2
40°	2524.5	2506.8	2489.1	2471.4	2453.7	2436.0	2418.3	2400.6	2382.9	2365.2	2323.6
42.5°	2587.7	2568.7	2549.7	2530.7	2511.7	2492.7	2473.7	2454.7	2435.7	2416.7	2371.4
45°	2650.9	2630.3	2609.8	2589.2	2568.7	2548.1	2527.6	2507.0	2486.5	2465.9	2417.0
47.5°	2714.1	2691.7	2669.3	2647.0	2624.6	2602.2	2579.8	2557.5	2535.1	2512.7	2460.4
50°	2777.2	2749.3	2725.9	2702.4	2679.0	2655.6	2632.2	2608.7	2585.3	2561.9	2505.2
52.5°	2831.2	2806.0	2780.7	2755.5	2730.3	2705.0	2679.8	2654.6	2629.3	2604.1	2543.5
55°	2882.8	2856.8	2830.8	2804.7	2778.7	2752.7	2726.7	2700.6	2674.6	2648.6	2583.5
57.5°	2929.6	2902.5	2875.5	2848.4	2821.3	2794.3	2767.2	2740.1	2713.1	2686.0	2617.3
60°	2967.1	2939.3	2911.4	2883.6	2855.7	2827.9	2800.0	2772.2	2744.3	2716.5	2644.2
62.5°	2995.2	2966.6	2938.0	2909.3	2880.7	2852.1	2823.5	2794.8	2766.2	2737.6	2662.4
65°	3011.6	2982.7	2953.8	2924.9	2896.0	2867.2	2838.3	2809.4	2780.5	2751.6	2674.1
67.5°	3018.6	2989.5	2960.3	2931.2	2902.0	2872.9	2843.7	2814.6	2785.4	2756.3	2676.9
70°	3013.9	2984.8	2955.6	2926.5	2897.3	2868.2	2839.0	2809.9	2780.7	2751.6	2670.9
72.5°	2995.2	2965.8	2936.4	2907.0	2877.6	2848.1	2818.7	2789.3	2759.9	2730.5	2649.3
75°	2962.4	2933.8	2905.2	2876.5	2847.9	2819.3	2790.7	2762.0	2733.4	2704.8	2622.8
77.5°	2913.2	2884.8	2856.5	2828.1	2799.7	2771.4	2743.0	2714.6	2686.3	2657.9	2576.5
80°	2854.7	2826.1	2797.5	2768.8	2740.2	2711.6	2683.0	2654.3	2625.7	2597.1	2516.7
82.5°	2784.4	2756.6	2728.7	2700.9	2673.0	2645.2	2617.3	2589.5	2561.6	2533.8	2454.2
85°	2709.5	2681.9	2654.3	2626.7	2599.1	2571.6	2544.0	2516.4	2488.8	2461.2	2383.1
87.5°	2629.8	2602.7	2575.7	2548.6	2521.6	2494.5	2467.5	2440.4	2413.4	2386.3	2309.8
90°	2550.2	2523.7	2497.1	2470.6	2444.1	2417.5	2391.0	2364.5	2337.9	2311.4	2237.0
92.5°	2480.0	2454.2	2428.5	2402.7	2376.9	2351.2	2325.4	2299.6	2273.9	2248.1	2175.8
95°	2414.4	2389.4	2364.4	2339.5	2314.5	2289.5	2264.5	2239.6	2214.6	2189.6	2119.1
97.5°	2348.8	2324.3	2299.9	2275.4	2251.0	2226.5	2202.1	2177.6	2153.2	2128.7	2060.0
100°	2283.3	2259.4	2235.4	2211.5	2187.5	2163.6	2139.6	2115.7	2091.7	2067.8	2000.9
102.5°	2220.0	2196.6	2173.2	2149.8	2126.4	2102.9	2079.5	2056.1	2032.7	2009.3	1943.5
105°	2156.8	2133.9	2111.0	2088.1	2065.2	2042.3	2019.4	1996.5	1973.6	1950.7	1886.2
107.5°	2091.2	2068.6	2045.9	2023.3	2000.7	1978.0	1955.4	1932.8	1910.1	1887.5	1824.5
110°	2023.3	2000.9	1978.5	1956.2	1933.8	1911.4	1889.0	1866.7	1844.3	1821.9	1760.8



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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°	1946.0	1924.1	1902.3	1880.4	1858.6	1836.7	1814.9	1793.0	1771.2	1749.3	1690.2
115°	1868.8	1847.5	1826.1	1804.8	1783.4	1762.1	1740.7	1719.4	1698.0	1676.7	1619.7
117.5°	1786.8	1766.2	1745.7	1725.1	1704.6	1684.0	1663.5	1642.9	1622.4	1601.8	1546.4
120°	1702.5	1682.5	1662.4	1642.4	1622.4	1602.3	1582.3	1562.3	1542.2	1522.2	1468.9
122.5°	1613.5	1594.2	1575.0	1555.7	1536.5	1517.2	1498.0	1478.7	1459.5	1440.2	1388.9
125°	1522.2	1503.7	1485.2	1466.8	1448.3	1429.8	1411.3	1392.9	1374.4	1355.9	1306.5
127.5°	1426.2	1408.8	1391.3	1373.9	1356.5	1339.0	1321.6	1304.2	1286.7	1269.3	1221.7
130°	1327.8	1311.4	1295.0	1278.6	1262.2	1245.9	1229.5	1213.1	1196.7	1180.3	1134.5
132.5°	1229.4	1213.8	1198.2	1182.6	1167.0	1151.3	1135.7	1120.1	1104.5	1088.9	1045.5
135°	1126.4	1111.6	1096.7	1081.9	1067.1	1052.2	1037.4	1022.6	1007.7	992.9	952.3
137.5°	1018.7	1004.9	991.1	977.3	963.5	949.8	936.0	922.2	908.4	894.6	857.1
140°	911.0	898.5	886.0	873.5	861.0	848.6	836.1	823.6	811.1	798.6	764.2
142.5°	807.9	797.0	786.1	775.1	764.2	753.3	742.4	731.4	720.5	709.6	677.3
145°	711.9	702.0	692.1	682.2	672.3	662.5	652.6	642.7	632.8	622.9	593.2
147.5°	618.2	608.6	599.0	589.3	579.7	570.1	560.5	550.8	541.2	531.6	505.6
150°	519.9	512.1	504.3	496.5	488.7	480.8	473.0	465.2	457.4	449.6	425.9
152.5°	428.5	421.7	415.0	408.2	401.5	394.7	388.0	381.2	374.5	367.7	347.1
155°	341.9	335.9	329.9	323.9	317.9	312.0	306.0	300.0	294.0	288.0	270.3
157.5°	257.6	252.7	247.7	242.8	237.8	232.9	227.9	223.0	218.0	213.1	198.5
160°	178.0	174.1	170.2	166.3	162.4	158.4	154.5	150.6	146.7	142.8	132.1
162.5°	107.7	105.1	102.5	99.9	97.3	94.7	92.1	89.5	86.9	84.3	77.3
165°	53.9	52.3	50.8	49.2	47.6	46.1	44.5	42.9	41.4	39.8	36.2
167.5°	16.4	15.9	15.4	14.8	14.3	13.8	13.3	12.7	12.2	11.7	10.4
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



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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°	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7
2.5°	1602.8	1603.4	1603.9	1604.4	1604.9	1605.5	1606.0	1606.5	1603.9	1601.3	1598.7
5°	1635.9	1635.3	1634.8	1634.3	1633.8	1633.2	1632.7	1632.2	1627.8	1623.4	1618.9
7.5°	1667.8	1665.8	1663.7	1661.6	1659.5	1657.5	1655.4	1653.3	1647.1	1640.8	1634.6
10°	1700.4	1697.0	1693.6	1690.3	1686.9	1683.5	1680.1	1676.7	1667.9	1659.0	1650.2
12.5°	1740.2	1734.5	1728.8	1723.0	1717.3	1711.6	1705.8	1700.1	1688.4	1676.7	1665.0
15°	1786.8	1777.4	1768.0	1758.7	1749.3	1739.9	1730.6	1721.2	1706.4	1691.5	1676.7
17.5°	1840.7	1826.6	1812.6	1798.5	1784.5	1770.4	1756.4	1742.3	1724.1	1705.9	1687.7
20°	1890.6	1873.5	1856.3	1839.1	1821.9	1804.8	1787.6	1770.4	1747.5	1724.6	1701.7
22.5°	1943.4	1923.4	1903.4	1883.3	1863.3	1843.3	1823.2	1803.2	1774.8	1746.5	1718.1
25°	1995.7	1972.5	1949.4	1926.2	1903.1	1879.9	1856.8	1833.6	1800.0	1766.5	1732.9
27.5°	2046.3	2020.2	1994.2	1968.2	1942.2	1916.1	1890.1	1864.1	1825.1	1786.0	1747.0
30°	2096.2	2067.1	2037.9	2008.8	1979.6	1950.5	1921.3	1892.2	1847.7	1803.2	1758.7
32.5°	2143.3	2110.7	2078.2	2045.7	2013.2	1980.6	1948.1	1915.6	1866.7	1817.8	1768.8
35°	2190.9	2155.3	2119.6	2084.0	2048.3	2012.7	1977.0	1941.4	1887.5	1833.7	1779.8
37.5°	2236.7	2198.2	2159.7	2121.1	2082.6	2044.1	2005.6	1967.1	1908.8	1850.5	1792.2
40°	2281.9	2240.3	2198.7	2157.0	2115.4	2073.8	2032.1	1990.5	1928.1	1865.6	1803.2
42.5°	2326.2	2280.9	2235.6	2190.4	2145.1	2099.8	2054.6	2009.3	1942.7	1876.1	1809.5
45°	2368.1	2319.2	2270.3	2221.3	2172.4	2123.5	2074.6	2025.7	1955.2	1884.7	1814.1
47.5°	2408.1	2355.8	2303.5	2251.2	2198.9	2146.6	2094.3	2042.0	1967.3	1892.7	1818.0
50°	2448.5	2391.7	2335.0	2278.3	2221.6	2164.8	2108.1	2051.4	1973.1	1894.8	1816.4
52.5°	2482.8	2422.2	2361.6	2300.9	2240.3	2179.7	2119.0	2058.4	1976.4	1894.5	1812.5
55°	2518.5	2453.4	2388.4	2323.3	2258.3	2193.2	2128.2	2063.1	1977.8	1892.4	1807.1
57.5°	2548.6	2479.9	2411.2	2342.6	2273.9	2205.2	2136.5	2067.8	1978.6	1889.3	1800.1
60°	2571.8	2499.5	2427.2	2354.8	2282.5	2210.2	2137.8	2065.5	1973.4	1881.3	1789.2
62.5°	2587.2	2512.0	2436.8	2361.6	2286.4	2211.2	2136.0	2060.8	1965.6	1870.3	1775.1
65°	2596.5	2519.0	2441.5	2363.9	2286.4	2208.9	2131.3	2053.8	1955.7	1857.6	1759.5
67.5°	2597.6	2518.2	2438.8	2359.5	2280.1	2200.7	2121.4	2042.0	1941.0	1840.1	1739.1
70°	2590.3	2509.6	2429.0	2348.3	2267.7	2187.0	2106.4	2025.7	1922.1	1818.6	1715.0
72.5°	2568.1	2487.0	2405.8	2324.6	2243.4	2162.3	2081.1	1999.9	1894.8	1789.7	1684.5
75°	2540.9	2458.9	2376.9	2295.0	2213.0	2131.0	2049.1	1967.1	1860.7	1754.3	1647.8
77.5°	2495.0	2413.6	2332.2	2250.7	2169.3	2087.9	2006.4	1925.0	1818.3	1711.6	1604.9
80°	2436.3	2355.9	2275.5	2195.0	2114.6	2034.2	1953.8	1873.4	1767.5	1661.6	1555.7
82.5°	2374.6	2294.9	2215.3	2135.7	2056.1	1976.4	1896.8	1817.2	1712.3	1607.5	1502.6
85°	2305.1	2227.0	2149.0	2070.9	1992.9	1914.8	1836.8	1758.7	1655.4	1552.1	1448.8
87.5°	2233.3	2156.8	2080.3	2003.8	1927.3	1850.8	1774.3	1697.8	1596.6	1495.4	1394.1
90°	2162.6	2088.1	2013.7	1939.3	1864.9	1790.4	1716.0	1641.6	1542.2	1442.8	1343.4
92.5°	2103.4	2031.1	1958.8	1886.4	1814.1	1741.8	1669.4	1597.1	1499.8	1402.5	1305.2
95°	2048.6	1978.1	1907.6	1837.0	1766.5	1696.0	1625.5	1555.0	1459.2	1363.5	1267.7
97.5°	1991.3	1922.6	1853.9	1785.3	1716.6	1647.9	1579.2	1510.5	1416.6	1322.6	1228.7
100°	1934.1	1867.2	1800.3	1733.5	1666.6	1599.7	1532.9	1466.0	1373.9	1281.8	1189.7
102.5°	1877.6	1811.8	1746.0	1680.1	1614.3	1548.5	1482.6	1416.8	1326.2	1235.7	1145.1
105°	1821.7	1757.1	1692.6	1628.1	1563.6	1499.0	1434.5	1370.0	1280.7	1191.5	1102.2
107.5°	1761.6	1698.6	1635.6	1572.7	1509.7	1446.7	1383.8	1320.8	1233.4	1145.9	1058.5
110°	1699.6	1638.5	1577.3	1516.2	1455.0	1393.9	1332.7	1271.6	1186.0	1100.4	1014.8





TEST NUMBER: P201411

CATALOG NUMBER: 8LBLED-LD4-14-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°	1631.2	1572.1	1513.0	1454.0	1394.9	1335.8	1276.8	1217.7	1134.2	1050.7	967.1
115°	1562.7	1505.8	1448.8	1391.8	1334.8	1277.9	1220.9	1163.9	1082.5	1001.0	919.6
117.5°	1491.0	1435.5	1380.1	1324.7	1269.3	1213.8	1158.4	1103.0	1024.2	945.3	866.5
120°	1415.5	1362.2	1308.8	1255.5	1202.1	1148.8	1095.4	1042.1	965.6	889.1	812.6
122.5°	1337.7	1286.4	1235.2	1183.9	1132.7	1081.4	1030.2	978.9	905.5	832.1	758.8
125°	1257.0	1207.6	1158.2	1108.7	1059.3	1009.9	960.4	911.0	841.5	772.0	702.6
127.5°	1174.1	1126.4	1078.8	1031.2	983.6	935.9	888.3	840.7	775.1	709.6	644.0
130°	1088.7	1042.9	997.1	951.3	905.5	859.7	813.9	768.1	707.0	645.8	584.7
132.5°	1002.0	958.6	915.1	871.7	828.2	784.8	741.3	697.9	640.9	583.9	526.9
135°	911.7	871.1	830.5	790.0	749.4	708.8	668.2	627.6	575.0	522.5	469.9
137.5°	819.6	782.2	744.7	707.2	669.7	632.3	594.8	557.3	509.2	461.0	412.9
140°	729.9	695.5	661.2	626.8	592.5	558.1	523.8	489.4	446.0	402.5	359.1
142.5°	645.1	612.8	580.5	548.3	516.0	483.7	451.5	419.2	380.7	342.2	303.7
145°	563.6	533.9	504.3	474.6	445.0	415.3	385.7	356.0	322.2	288.3	254.5
147.5°	479.6	453.5	427.5	401.5	375.5	349.4	323.4	297.4	268.0	238.6	209.2
150°	402.2	378.6	354.9	331.2	307.5	283.9	260.2	236.5	212.3	188.1	163.9
152.5°	326.6	306.0	285.5	264.9	244.4	223.8	203.3	182.7	163.4	144.2	124.9
155°	252.6	234.9	217.2	199.6	181.9	164.2	146.5	128.8	115.0	101.2	87.4
157.5°	184.0	169.4	154.8	140.3	125.7	111.1	96.6	82.0	72.9	63.8	54.7
160°	121.5	110.8	100.1	89.5	78.8	68.1	57.5	46.8	41.6	36.4	31.2
162.5°	70.3	63.2	56.2	49.2	42.2	35.1	28.1	21.1	18.8	16.4	14.1
165°	32.5	28.9	25.2	21.6	17.9	14.3	10.6	7.0	6.2	5.4	4.7
167.5°	9.1	7.8	6.5	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: P201411

CATALOG NUMBER: 8LBLEDD4-14-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°	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7
2.5°	1596.1	1593.5	1590.9	1588.3	1585.7	1583.1	1584.4	1585.7	1587.0	1588.3	1589.6
5°	1614.5	1610.1	1605.7	1601.2	1596.8	1592.4	1592.1	1591.9	1591.6	1591.4	1591.1
7.5°	1628.3	1622.1	1615.8	1609.6	1603.3	1597.1	1594.8	1592.4	1590.1	1587.7	1585.4
10°	1641.3	1632.5	1623.6	1614.8	1605.9	1597.1	1593.2	1589.3	1585.4	1581.5	1577.6
12.5°	1653.3	1641.6	1629.9	1618.2	1606.5	1594.8	1588.6	1582.3	1576.1	1569.8	1563.6
15°	1661.9	1647.0	1632.2	1617.4	1602.5	1587.7	1579.1	1570.5	1562.0	1553.4	1544.8
17.5°	1669.5	1651.2	1633.0	1614.8	1596.6	1578.4	1568.0	1557.6	1547.2	1536.8	1526.3
20°	1678.8	1655.9	1633.0	1610.1	1587.2	1564.3	1551.3	1538.3	1525.3	1512.3	1499.2
22.5°	1689.7	1661.4	1633.0	1604.6	1576.3	1547.9	1532.8	1517.7	1502.6	1487.5	1472.5
25°	1699.3	1665.8	1632.2	1598.6	1565.1	1531.5	1513.6	1495.6	1477.7	1459.7	1441.8
27.5°	1708.0	1668.9	1629.9	1590.9	1551.8	1512.8	1492.0	1471.2	1450.4	1429.6	1408.7
30°	1714.2	1669.7	1625.2	1580.7	1536.2	1491.7	1467.5	1443.3	1419.1	1394.9	1370.7
32.5°	1719.9	1671.0	1622.1	1573.1	1524.2	1475.3	1447.2	1419.1	1391.0	1362.9	1334.8
35°	1725.9	1672.1	1618.2	1564.3	1510.5	1456.6	1424.6	1392.6	1360.6	1328.6	1296.6
37.5°	1733.9	1675.7	1617.4	1559.1	1500.8	1442.5	1405.8	1369.1	1332.5	1295.8	1259.1
40°	1740.7	1678.3	1615.8	1553.4	1490.9	1428.5	1386.9	1345.2	1303.6	1262.0	1220.3
42.5°	1742.9	1676.2	1609.6	1543.0	1476.4	1409.8	1363.5	1317.2	1270.8	1224.5	1178.2
45°	1743.6	1673.1	1602.6	1532.0	1461.5	1391.0	1340.3	1289.5	1238.8	1188.1	1137.3
47.5°	1743.3	1668.7	1594.0	1519.3	1444.7	1370.0	1314.6	1259.1	1203.7	1148.3	1092.8
50°	1738.1	1659.8	1581.5	1503.1	1424.8	1346.5	1286.7	1226.8	1167.0	1107.1	1047.3
52.5°	1730.6	1648.6	1566.7	1484.7	1402.8	1320.8	1256.5	1192.3	1128.0	1063.7	999.5
55°	1721.7	1636.4	1551.0	1465.7	1380.3	1295.0	1226.8	1158.7	1090.5	1022.3	954.2
57.5°	1710.8	1621.6	1532.3	1443.1	1353.8	1264.6	1192.8	1121.0	1049.1	977.3	905.5
60°	1697.1	1604.9	1512.8	1420.7	1328.6	1236.5	1160.3	1084.0	1007.8	931.5	855.3
62.5°	1679.9	1584.6	1489.4	1394.2	1298.9	1203.7	1124.1	1044.5	964.8	885.2	805.6
65°	1661.4	1563.3	1465.2	1367.1	1269.0	1170.9	1088.4	1005.9	923.4	840.9	758.5
67.5°	1638.2	1537.2	1436.3	1335.3	1234.4	1133.4	1048.3	963.2	878.2	793.1	708.0
70°	1611.4	1507.9	1404.3	1300.7	1197.2	1093.6	1006.4	919.3	832.1	744.9	657.8
72.5°	1579.4	1474.3	1369.2	1264.0	1158.9	1053.8	964.8	875.8	786.8	697.8	608.9
75°	1541.4	1435.0	1328.6	1222.1	1115.7	1009.3	919.3	829.3	739.2	649.2	559.2
77.5°	1498.2	1391.6	1284.9	1178.2	1071.5	964.8	874.0	783.2	692.4	601.6	510.7
80°	1449.8	1343.9	1238.0	1132.1	1026.2	920.3	829.5	738.7	647.9	557.1	466.2
82.5°	1397.8	1292.9	1188.1	1083.2	978.4	873.5	783.5	693.4	603.4	513.4	423.3
85°	1345.5	1242.2	1138.9	1035.6	932.3	829.0	740.3	651.5	562.8	474.1	385.3
87.5°	1292.9	1191.7	1090.5	989.2	888.0	786.8	700.2	613.5	526.9	440.2	353.6
90°	1244.0	1144.6	1045.2	945.8	846.4	747.0	664.0	581.0	498.0	415.0	332.0
92.5°	1207.9	1110.5	1013.2	915.9	818.6	721.3	641.2	561.0	480.9	400.7	320.6
95°	1172.0	1076.2	980.5	884.7	789.0	693.2	616.2	539.2	462.1	385.1	308.1
97.5°	1134.8	1040.8	946.9	853.0	759.0	665.1	591.2	517.3	443.4	369.5	295.6
100°	1097.6	1005.4	913.3	821.2	729.1	637.0	566.2	495.4	424.7	353.9	283.1
102.5°	1054.6	964.0	873.5	782.9	692.4	601.8	534.9	468.1	401.2	334.3	267.5
105°	1013.0	923.7	834.5	745.2	656.0	566.7	503.7	440.8	377.8	314.8	251.9
107.5°	971.1	883.6	796.2	708.8	621.3	533.9	474.6	415.3	355.9	296.6	237.3
110°	929.2	843.5	757.9	672.3	586.7	501.1	445.4	389.7	334.1	278.4	222.7



TEST NUMBER: P201411

CATALOG NUMBER: 8LBLED-LD4-14-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°	883.6	800.1	716.6	633.0	549.5	466.0	414.2	362.4	310.7	258.9	207.1
115°	838.1	756.7	675.2	593.8	512.3	430.9	383.0	335.1	287.3	239.4	191.5
117.5°	787.6	708.8	629.9	551.1	472.2	393.4	349.7	306.0	262.3	218.6	174.8
120°	736.1	659.6	583.1	506.6	430.1	353.6	314.3	275.0	235.7	196.4	157.2
122.5°	685.4	612.0	538.6	465.3	391.9	318.5	283.1	247.7	212.3	176.9	141.6
125°	633.1	563.6	494.1	424.7	355.2	285.7	254.0	222.2	190.5	158.7	127.0
127.5°	578.4	512.9	447.3	381.7	316.2	250.6	222.8	194.9	167.1	139.2	111.4
130°	523.5	462.4	401.2	340.1	278.9	217.8	193.6	169.4	145.2	121.0	96.8
132.5°	469.9	413.0	356.0	299.0	242.0	185.0	164.4	143.9	123.3	102.8	82.2
135°	417.4	364.8	312.3	259.7	207.2	154.6	137.4	120.2	103.1	85.9	68.7
137.5°	364.8	316.6	268.5	220.4	172.2	124.1	110.3	96.5	82.7	68.9	55.2
140°	315.6	272.2	228.7	185.3	141.8	98.4	87.5	76.5	65.6	54.7	43.7
142.5°	265.2	226.6	188.1	149.6	111.1	72.6	64.5	56.5	48.4	40.3	32.3
145°	220.7	186.8	153.0	119.2	85.3	51.5	45.8	40.1	34.3	28.6	22.9
147.5°	179.8	150.4	121.0	91.6	62.2	32.8	29.2	25.5	21.9	18.2	14.6
150°	139.7	115.5	91.3	67.1	42.9	18.7	16.6	14.5	12.5	10.4	8.3
152.5°	105.7	86.4	67.2	47.9	28.7	9.4	8.4	7.3	6.3	5.2	4.2
155°	73.6	59.9	46.1	32.3	18.5	4.7	4.2	3.7	3.1	2.6	2.1
157.5°	45.6	36.4	27.3	18.2	9.1	0.0	0.0	0.0	0.0	0.0	0.0
160°	26.0	20.8	15.6	10.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	11.7	9.4	7.0	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
165°	3.9	3.1	2.3	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: P201411

CATALOG NUMBER: 8LBLEDD4-14-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°	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7
2.5°	1590.9	1592.2	1593.5	1594.8	1591.4	1588.0	1584.6	1581.2	1577.9	1574.5	1571.1
5°	1590.9	1590.6	1590.4	1590.1	1585.2	1580.2	1575.3	1570.3	1565.4	1560.4	1555.5
7.5°	1583.0	1580.7	1578.3	1576.0	1570.3	1564.6	1558.8	1553.1	1547.4	1541.7	1535.9
10°	1573.7	1569.8	1565.9	1562.0	1555.2	1548.5	1541.7	1534.9	1528.2	1521.4	1514.6
12.5°	1557.3	1551.1	1544.8	1538.6	1531.6	1524.5	1517.5	1510.5	1503.4	1496.4	1489.4
15°	1536.2	1527.7	1519.1	1510.5	1503.5	1496.4	1489.4	1482.4	1475.3	1468.3	1461.3
17.5°	1515.9	1505.5	1495.1	1484.7	1477.4	1470.1	1462.8	1455.5	1448.3	1441.0	1433.7
20°	1486.2	1473.2	1460.2	1447.2	1441.0	1434.7	1428.5	1422.2	1416.0	1409.7	1403.5
22.5°	1457.4	1442.3	1427.2	1412.1	1406.4	1400.7	1394.9	1389.2	1383.5	1377.8	1372.0
25°	1423.8	1405.9	1387.9	1370.0	1365.8	1361.7	1357.5	1353.3	1349.2	1345.0	1340.8
27.5°	1387.9	1367.1	1346.3	1325.5	1323.2	1320.8	1318.5	1316.1	1313.8	1311.4	1309.1
30°	1346.5	1322.3	1298.1	1273.9	1274.2	1274.4	1274.7	1275.0	1275.2	1275.5	1275.8
32.5°	1306.7	1278.6	1250.5	1222.4	1226.0	1229.7	1233.3	1237.0	1240.6	1244.3	1247.9
35°	1264.6	1232.6	1200.6	1168.6	1175.9	1183.2	1190.4	1197.7	1205.0	1212.3	1219.5
37.5°	1222.4	1185.8	1149.1	1112.4	1123.6	1134.8	1146.0	1157.2	1168.3	1179.5	1190.7
40°	1178.7	1137.1	1095.4	1053.8	1068.6	1083.5	1098.3	1113.1	1128.0	1142.8	1157.6
42.5°	1131.9	1085.5	1039.2	992.9	1011.6	1030.4	1049.1	1067.8	1086.6	1105.3	1124.0
45°	1086.6	1035.9	985.1	934.4	956.5	978.6	1000.7	1022.8	1045.0	1067.1	1089.2
47.5°	1037.4	982.0	926.5	871.1	897.1	923.1	949.2	975.2	1001.2	1027.2	1053.3
50°	987.4	927.6	867.7	807.9	837.8	867.7	897.7	927.6	957.5	987.4	1017.4
52.5°	935.2	870.9	806.7	742.4	776.0	809.5	843.1	876.6	910.2	943.7	977.3
55°	886.0	817.8	749.7	681.5	718.4	755.4	792.3	829.3	866.2	903.2	940.1
57.5°	833.7	761.8	690.0	618.2	658.5	698.9	739.2	779.5	819.9	860.2	900.5
60°	779.0	702.8	626.5	550.3	594.5	638.8	683.0	727.2	771.5	815.7	859.9
62.5°	726.0	646.3	566.7	487.1	534.5	581.8	629.2	676.5	723.9	771.2	818.6
65°	676.0	593.5	511.0	428.5	478.5	528.4	578.4	628.4	678.3	728.3	778.3
67.5°	622.9	537.9	452.8	367.7	419.7	471.8	523.8	575.8	627.9	679.9	731.9
70°	570.6	483.4	396.3	309.1	363.2	417.3	471.5	525.6	579.7	633.8	688.0
72.5°	519.9	430.9	341.9	252.9	308.3	363.7	419.2	474.6	530.0	585.4	640.9
75°	469.2	379.1	289.1	199.1	255.6	312.0	368.5	424.9	481.4	537.8	594.3
77.5°	419.9	329.1	238.3	147.5	204.7	262.0	319.2	376.5	433.7	491.0	548.2
80°	375.4	284.6	193.8	103.0	160.2	217.5	274.7	332.0	389.2	446.5	503.7
82.5°	333.3	243.3	153.2	63.2	119.4	175.6	231.8	288.0	344.3	400.5	456.7
85°	296.6	207.9	119.1	30.4	85.6	140.7	195.9	251.1	306.2	361.4	416.6
87.5°	266.9	180.3	93.6	7.0	60.9	114.7	168.6	222.5	276.3	330.2	384.1
90°	249.0	166.0	83.0	0.0	51.5	103.0	154.6	206.1	257.6	309.1	360.7
92.5°	240.4	160.3	80.1	0.0	49.2	98.4	147.5	196.7	245.9	295.1	344.2
95°	231.1	154.0	77.0	0.0	46.8	93.7	140.5	187.3	234.2	281.0	327.8
97.5°	221.7	147.8	73.9	0.0	44.2	88.5	132.7	176.9	221.2	265.4	309.6
100°	212.3	141.6	70.8	0.0	41.6	83.3	124.9	166.5	208.2	249.8	291.4
102.5°	200.6	133.7	66.9	0.0	39.0	78.1	117.1	156.1	195.2	234.2	273.2
105°	188.9	125.9	63.0	0.0	36.4	72.9	109.3	145.7	182.2	218.6	255.0
107.5°	178.0	118.6	59.3	0.0	33.8	67.6	101.5	135.3	169.1	202.9	236.8
110°	167.0	111.4	55.7	0.0	31.0	61.9	92.9	123.9	154.8	185.8	216.8



TEST NUMBER: P201411

CATALOG NUMBER: 8LBLED-LD4-14-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°	155.3	103.6	51.8	0.0	28.4	56.7	85.1	113.5	141.8	170.2	198.6
115°	143.6	95.8	47.9	0.0	25.5	51.0	76.5	102.0	127.5	153.0	178.5
117.5°	131.1	87.4	43.7	0.0	22.9	45.8	68.7	91.6	114.5	137.4	160.3
120°	117.9	78.6	39.3	0.0	20.3	40.6	60.9	81.2	101.5	121.8	142.1
122.5°	106.2	70.8	35.4	0.0	17.7	35.4	53.1	70.8	88.4	106.1	123.8
125°	95.2	63.5	31.7	0.0	15.1	30.2	45.3	60.4	75.4	90.5	105.6
127.5°	83.5	55.7	27.8	0.0	12.2	24.5	36.7	48.9	61.2	73.4	85.6
130°	72.6	48.4	24.2	0.0	9.6	19.2	28.9	38.5	48.1	57.7	67.4
132.5°	61.7	41.1	20.6	0.0	7.3	14.6	21.9	29.2	36.4	43.7	51.0
135°	51.5	34.4	17.2	0.0	5.2	10.4	15.6	20.8	26.0	31.2	36.4
137.5°	41.4	27.6	13.8	0.0	3.6	7.3	10.9	14.6	18.2	21.9	25.5
140°	32.8	21.9	10.9	0.0	2.1	4.2	6.2	8.3	10.4	12.5	14.5
142.5°	24.2	16.1	8.1	0.0	1.0	2.1	3.1	4.2	5.2	6.3	7.3
145°	17.2	11.4	5.7	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.7
147.5°	10.9	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	6.2	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	3.1	2.1	1.0	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: P201411

CATALOG NUMBER: 8LBLELD4-14-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°	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7
2.5°	1567.7	1564.3	1562.7	1561.2	1559.6	1558.1	1556.5	1555.0	1553.4	1551.9	1550.3
5°	1550.5	1545.6	1544.0	1542.5	1540.9	1539.3	1537.8	1536.2	1534.6	1533.1	1531.5
7.5°	1530.2	1524.5	1522.4	1520.3	1518.3	1516.2	1514.1	1512.0	1510.0	1507.9	1505.8
10°	1507.9	1501.1	1499.8	1498.5	1497.2	1495.9	1494.6	1493.3	1492.0	1490.7	1489.4
12.5°	1482.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3
15°	1454.2	1447.2	1449.5	1451.9	1454.2	1456.6	1458.9	1461.3	1463.6	1466.0	1468.3
17.5°	1426.4	1419.1	1424.8	1430.5	1436.3	1442.0	1447.7	1453.4	1459.2	1464.9	1470.6
20°	1397.2	1391.0	1401.4	1411.8	1422.2	1432.6	1443.1	1453.5	1463.9	1474.3	1484.7
22.5°	1366.3	1360.6	1376.2	1391.8	1407.4	1423.0	1438.7	1454.3	1469.9	1485.5	1501.1
25°	1336.7	1332.5	1353.1	1373.6	1394.2	1414.7	1435.3	1455.8	1476.4	1496.9	1517.5
27.5°	1306.7	1304.4	1329.4	1354.4	1379.3	1404.3	1429.3	1454.3	1479.2	1504.2	1529.2
30°	1276.0	1276.3	1305.4	1334.6	1363.7	1392.9	1422.0	1451.2	1480.3	1509.5	1538.6
32.5°	1251.6	1255.2	1287.5	1319.7	1352.0	1384.3	1416.5	1448.8	1481.1	1513.3	1545.6
35°	1226.8	1234.1	1269.5	1304.9	1340.3	1375.7	1411.0	1446.4	1481.8	1517.2	1552.6
37.5°	1201.9	1213.1	1251.3	1289.6	1327.8	1366.1	1404.3	1442.6	1480.8	1519.1	1557.3
40°	1172.5	1187.3	1228.9	1270.6	1312.2	1353.8	1395.5	1437.1	1478.7	1520.4	1562.0
42.5°	1142.8	1161.5	1206.3	1251.0	1295.8	1340.5	1385.3	1430.0	1474.8	1519.5	1564.3
45°	1111.3	1133.4	1181.3	1229.2	1277.0	1324.9	1372.8	1420.7	1468.5	1516.4	1564.3
47.5°	1079.3	1105.3	1156.3	1207.3	1258.3	1309.3	1360.3	1411.3	1462.3	1513.3	1564.3
50°	1047.3	1077.2	1131.1	1184.9	1238.8	1292.7	1346.5	1400.4	1454.3	1508.1	1562.0
52.5°	1010.8	1044.4	1101.4	1158.4	1215.4	1272.4	1329.3	1386.3	1443.3	1500.3	1557.3
55°	977.1	1014.0	1074.1	1134.2	1194.3	1254.4	1314.6	1374.7	1434.8	1494.9	1555.0
57.5°	940.9	981.2	1044.4	1107.7	1170.9	1234.1	1297.4	1360.6	1423.8	1487.1	1550.3
60°	904.2	948.4	1014.8	1081.1	1147.5	1213.8	1280.2	1346.5	1412.9	1479.2	1545.6
62.5°	865.9	913.3	982.8	1052.3	1121.7	1191.2	1260.7	1330.2	1399.6	1469.1	1538.6
65°	828.2	878.2	950.5	1022.9	1095.2	1167.5	1239.9	1312.2	1384.5	1456.9	1529.2
67.5°	784.0	836.0	911.7	987.4	1063.2	1138.9	1214.6	1290.3	1366.1	1441.8	1517.5
70°	742.1	796.2	874.0	951.8	1029.6	1107.4	1185.2	1263.0	1340.8	1418.6	1496.4
72.5°	696.3	751.7	830.5	909.4	988.2	1067.1	1145.9	1224.8	1303.6	1382.5	1461.3
75°	650.7	707.2	785.8	864.4	942.9	1021.5	1100.1	1178.7	1257.2	1335.8	1414.4
77.5°	605.5	662.7	740.2	817.8	895.3	972.9	1050.4	1128.0	1205.5	1283.1	1360.6
80°	561.0	618.2	693.9	769.6	845.4	921.1	996.8	1072.5	1148.3	1224.0	1299.7
82.5°	512.9	569.1	643.0	716.9	790.8	864.7	938.5	1012.4	1086.3	1160.2	1234.1
85°	471.7	526.9	598.7	670.5	742.3	814.1	886.0	957.8	1029.6	1101.4	1173.2
87.5°	437.9	491.8	561.8	631.8	701.8	771.8	841.7	911.7	981.7	1051.7	1121.7
90°	412.2	463.7	531.3	599.0	666.6	734.3	801.9	869.6	937.2	1004.9	1072.5
92.5°	393.4	442.6	508.2	573.7	639.3	704.9	770.4	836.0	901.6	967.1	1032.7
95°	374.7	421.5	485.3	549.0	612.8	676.5	740.3	804.0	867.8	931.5	995.3
97.5°	353.9	398.1	460.3	522.5	584.7	646.9	709.0	771.2	833.4	895.6	957.8
100°	333.1	374.7	435.6	496.5	557.4	618.3	679.1	740.0	800.9	861.8	922.7
102.5°	312.3	351.3	410.6	469.9	529.3	588.6	647.9	707.2	766.6	825.9	885.2
105°	291.5	327.9	385.7	443.4	501.2	558.9	616.7	674.4	732.2	789.9	847.7
107.5°	270.6	304.4	360.3	416.3	472.2	528.2	584.1	640.1	696.0	752.0	807.9
110°	247.7	278.7	333.1	387.5	441.8	496.2	550.6	605.0	659.3	713.7	768.1



TEST NUMBER: P201411

CATALOG NUMBER: 8LBLED-LD4-14-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°	226.9	255.3	307.6	359.9	412.2	464.5	516.8	569.1	621.4	673.7	726.0
115°	204.0	229.5	280.2	331.0	381.7	432.4	483.2	533.9	584.6	635.4	686.1
117.5°	183.2	206.1	254.5	302.9	351.3	399.7	448.1	496.5	544.9	593.3	641.7
120°	162.4	182.7	229.3	275.8	322.4	369.0	415.5	462.1	508.7	555.2	601.8
122.5°	141.5	159.2	202.7	246.1	289.6	333.0	376.5	419.9	463.4	506.8	550.3
125°	120.7	135.8	176.7	217.5	258.4	299.2	340.1	380.9	421.8	462.6	503.5
127.5°	97.9	110.1	148.6	187.1	225.6	264.1	302.7	341.2	379.7	418.2	456.7
130°	77.0	86.6	121.5	156.3	191.2	226.1	260.9	295.8	330.7	365.5	400.4
132.5°	58.3	65.6	97.1	128.6	160.0	191.5	223.0	254.5	285.9	317.4	348.9
135°	41.6	46.8	74.6	102.5	130.3	158.2	186.0	213.9	241.7	269.6	297.4
137.5°	29.2	32.8	57.0	81.2	105.4	129.6	153.8	178.0	202.2	226.4	250.6
140°	16.6	18.7	39.8	60.9	81.9	103.0	124.1	145.2	166.2	187.3	208.4
142.5°	8.4	9.4	27.1	44.8	62.5	80.2	97.8	115.5	133.2	150.9	168.6
145°	4.2	4.7	18.7	32.8	46.8	60.9	74.9	89.0	103.0	117.1	131.1
147.5°	0.0	0.0	11.2	22.4	33.6	44.8	55.9	67.1	78.3	89.5	100.7
150°	0.0	0.0	7.8	15.6	23.4	31.2	39.1	46.9	54.7	62.5	70.3
152.5°	0.0	0.0	4.9	9.9	14.8	19.8	24.7	29.7	34.6	39.6	44.5
155°	0.0	0.0	2.6	5.2	7.8	10.4	13.0	15.6	18.2	20.8	23.4
157.5°	0.0	0.0	1.0	2.1	3.1	4.2	5.2	6.3	7.3	8.4	9.4
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: P201411

CATALOG NUMBER: 8LBLELD4-14-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°	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7
2.5°	1549.3	1548.2	1547.2	1546.1	1545.1	1544.0	1543.0	1541.9	1540.9	1539.6	1538.3
5°	1529.7	1527.9	1526.0	1524.2	1522.4	1520.6	1518.7	1516.9	1515.1	1514.6	1514.1
7.5°	1505.0	1504.2	1503.5	1502.7	1501.9	1501.1	1500.4	1499.6	1498.8	1498.5	1498.3
10°	1489.9	1490.4	1491.0	1491.5	1492.0	1492.5	1493.1	1493.6	1494.1	1494.1	1494.1
12.5°	1478.2	1481.0	1483.9	1486.8	1489.6	1492.5	1495.4	1498.2	1501.1	1502.4	1503.7
15°	1475.1	1481.8	1488.6	1495.4	1502.1	1508.9	1515.7	1522.4	1529.2	1532.1	1534.9
17.5°	1481.3	1492.0	1502.6	1513.3	1524.0	1534.7	1545.3	1556.0	1566.7	1570.1	1573.5
20°	1497.7	1510.7	1523.7	1536.7	1549.8	1562.8	1575.8	1588.8	1601.8	1606.0	1610.1
22.5°	1515.7	1530.2	1544.8	1559.4	1573.9	1588.5	1603.1	1617.6	1632.2	1637.4	1642.6
25°	1533.9	1550.3	1566.7	1583.1	1599.4	1615.8	1632.2	1648.6	1665.0	1670.7	1676.4
27.5°	1547.4	1565.6	1583.8	1602.0	1620.3	1638.5	1656.7	1674.9	1693.1	1699.9	1706.6
30°	1558.9	1579.2	1599.5	1619.8	1640.0	1660.3	1680.6	1700.9	1721.2	1729.3	1737.3
32.5°	1568.5	1591.4	1614.3	1637.2	1660.1	1683.0	1705.9	1728.8	1751.7	1760.5	1769.4
35°	1577.8	1603.1	1628.3	1653.6	1678.8	1704.1	1729.3	1754.6	1779.8	1789.9	1800.1
37.5°	1584.6	1611.9	1639.3	1666.6	1693.9	1721.2	1748.6	1775.9	1803.2	1814.9	1826.6
40°	1591.9	1621.8	1651.8	1681.7	1711.6	1741.5	1771.5	1801.4	1831.3	1844.3	1857.3
42.5°	1597.1	1629.9	1662.7	1695.5	1728.2	1761.0	1793.8	1826.6	1859.4	1874.0	1888.5
45°	1600.5	1636.6	1672.8	1709.0	1745.1	1781.3	1817.5	1853.6	1889.8	1905.7	1921.6
47.5°	1603.6	1642.9	1682.2	1721.5	1760.7	1800.0	1839.3	1878.6	1917.9	1935.3	1952.8
50°	1604.9	1647.9	1690.8	1733.7	1776.7	1819.6	1862.5	1905.5	1948.4	1967.7	1986.9
52.5°	1604.1	1651.0	1697.8	1744.6	1791.5	1838.3	1885.1	1932.0	1978.8	1999.9	2021.0
55°	1605.2	1655.4	1705.6	1755.8	1806.1	1856.3	1906.5	1956.7	2006.9	2029.3	2051.7
57.5°	1604.4	1658.5	1712.7	1766.8	1820.9	1875.0	1929.2	1983.3	2037.4	2060.6	2083.7
60°	1602.8	1660.1	1717.3	1774.6	1831.8	1889.1	1946.3	2003.6	2060.8	2084.5	2108.2
62.5°	1598.4	1658.3	1718.1	1778.0	1837.8	1897.7	1957.5	2017.4	2077.2	2101.4	2125.6
65°	1591.1	1653.0	1715.0	1776.9	1838.8	1900.7	1962.7	2024.6	2086.5	2111.0	2135.4
67.5°	1580.5	1643.4	1706.4	1769.4	1832.3	1895.3	1958.3	2021.2	2084.2	2108.7	2133.1
70°	1559.9	1623.4	1686.9	1750.4	1813.8	1877.3	1940.8	2004.3	2067.8	2091.7	2115.7
72.5°	1524.5	1587.7	1651.0	1714.2	1777.4	1840.6	1903.9	1967.1	2030.3	2054.0	2077.7
75°	1476.9	1539.3	1601.8	1664.2	1726.7	1789.1	1851.6	1914.0	1976.5	1999.4	2022.3
77.5°	1421.5	1482.4	1543.3	1604.2	1665.0	1725.9	1786.8	1847.7	1908.6	1930.7	1952.8
80°	1358.5	1417.3	1476.1	1534.9	1593.7	1652.5	1711.3	1770.1	1828.9	1850.8	1872.6
82.5°	1290.8	1347.5	1404.3	1461.0	1517.7	1574.4	1631.2	1687.9	1744.6	1765.9	1787.3
85°	1227.8	1282.5	1337.1	1391.8	1446.4	1501.1	1555.7	1610.4	1665.0	1685.6	1706.1
87.5°	1173.5	1225.3	1277.0	1328.8	1380.6	1432.4	1484.1	1535.9	1587.7	1608.3	1628.8
90°	1122.7	1172.9	1223.2	1273.4	1323.6	1373.8	1424.1	1474.3	1524.5	1544.0	1563.5
92.5°	1081.1	1129.5	1177.9	1226.3	1274.7	1323.1	1371.5	1419.9	1468.3	1486.8	1505.3
95°	1041.9	1088.4	1135.0	1181.6	1228.1	1274.7	1321.3	1367.8	1414.4	1432.4	1450.3
97.5°	1003.1	1048.4	1093.6	1138.9	1184.2	1229.5	1274.7	1320.0	1365.3	1382.5	1399.6
100°	966.7	1010.6	1054.6	1098.6	1142.5	1186.5	1230.5	1274.4	1318.4	1335.1	1351.7
102.5°	928.1	971.1	1014.0	1056.9	1099.9	1142.8	1185.7	1228.7	1271.6	1287.7	1303.9
105°	889.6	931.5	973.4	1015.3	1057.2	1099.1	1141.0	1182.9	1224.8	1240.7	1256.5
107.5°	848.8	889.6	930.5	971.3	1012.2	1053.0	1093.9	1134.7	1175.6	1191.2	1206.8
110°	807.7	847.2	886.8	926.3	965.9	1005.4	1045.0	1084.5	1124.1	1139.4	1154.8





TEST NUMBER: P201411

CATALOG NUMBER: 8LBLED-LD4-14-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°	764.2	802.5	840.7	879.0	917.2	955.5	993.7	1032.0	1070.2	1085.0	1099.9
115°	722.8	759.5	796.2	832.9	869.5	906.2	942.9	979.6	1016.3	1030.9	1045.5
117.5°	677.3	713.0	748.6	784.3	819.9	855.6	891.2	926.9	962.5	976.5	990.6
120°	635.9	670.0	704.1	738.2	772.2	806.3	840.4	874.5	908.6	921.4	934.1
122.5°	583.6	616.9	650.2	683.5	716.9	750.2	783.5	816.8	850.1	862.8	875.6
125°	535.8	568.0	600.3	632.6	664.8	697.1	729.4	761.6	793.9	806.1	818.3
127.5°	487.4	518.1	548.8	579.5	610.2	640.9	671.6	702.3	733.0	745.0	756.9
130°	430.8	461.3	491.7	522.2	552.6	583.1	613.5	644.0	674.4	685.9	697.3
132.5°	378.3	407.7	437.1	466.5	496.0	525.4	554.8	584.2	613.6	624.3	634.9
135°	325.2	353.1	380.9	408.8	436.6	464.5	492.3	520.2	548.0	558.4	568.8
137.5°	276.6	302.6	328.7	354.7	380.7	406.7	432.8	458.8	484.8	495.2	505.6
140°	231.8	255.2	278.7	302.1	325.5	348.9	372.4	395.8	419.2	429.6	440.0
142.5°	189.2	209.7	230.3	250.8	271.4	291.9	312.5	333.0	353.6	364.3	374.9
145°	149.1	167.0	185.0	202.9	220.9	238.8	256.8	274.7	292.7	304.2	315.6
147.5°	115.8	130.9	146.0	161.1	176.1	191.2	206.3	221.4	236.5	247.7	258.9
150°	82.8	95.3	107.8	120.3	132.7	145.2	157.7	170.2	182.7	193.4	204.0
152.5°	54.6	64.8	74.9	85.1	95.2	105.4	115.5	125.7	135.8	145.7	155.6
155°	31.2	39.0	46.8	54.6	62.5	70.3	78.1	85.9	93.7	102.3	110.9
157.5°	14.9	20.3	25.8	31.2	36.7	42.1	47.6	53.0	58.5	65.5	72.6
160°	3.1	6.2	9.4	12.5	15.6	18.7	21.9	25.0	28.1	33.3	38.5
162.5°	0.8	1.6	2.3	3.1	3.9	4.7	5.4	6.2	7.0	10.1	13.2
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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: P201411

CATALOG NUMBER: 8LBLEDD4-14-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°	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7
2.5°	1537.0	1535.7	1534.4	1533.1	1531.8	1530.5	1529.2	1530.2	1531.3	1532.3	1533.4
5°	1513.6	1513.1	1512.5	1512.0	1511.5	1511.0	1510.5	1510.8	1511.0	1511.3	1511.5
7.5°	1498.0	1497.7	1497.5	1497.2	1496.9	1496.7	1496.4	1496.4	1496.4	1496.4	1496.4
10°	1494.1	1494.1	1494.1	1494.1	1494.1	1494.1	1494.1	1493.3	1492.5	1491.7	1490.9
12.5°	1505.0	1506.3	1507.6	1508.9	1510.2	1511.5	1512.8	1510.7	1508.6	1506.6	1504.5
15°	1537.8	1540.7	1543.5	1546.4	1549.3	1552.1	1555.0	1551.9	1548.8	1545.6	1542.5
17.5°	1576.8	1580.2	1583.6	1587.0	1590.3	1593.7	1597.1	1592.9	1588.8	1584.6	1580.4
20°	1614.3	1618.5	1622.6	1626.8	1631.0	1635.1	1639.3	1634.4	1629.4	1624.5	1619.5
22.5°	1647.8	1653.0	1658.3	1663.5	1668.7	1673.9	1679.1	1672.9	1666.6	1660.4	1654.1
25°	1682.2	1687.9	1693.6	1699.3	1705.1	1710.8	1716.5	1709.7	1703.0	1696.2	1689.5
27.5°	1713.4	1720.2	1726.9	1733.7	1740.5	1747.2	1754.0	1746.5	1738.9	1731.4	1723.8
30°	1745.4	1753.5	1761.5	1769.6	1777.7	1785.7	1793.8	1785.0	1776.1	1767.3	1758.4
32.5°	1778.2	1787.1	1795.9	1804.8	1813.6	1822.5	1831.3	1821.7	1812.0	1802.4	1792.8
35°	1810.2	1820.4	1830.5	1840.7	1850.8	1861.0	1871.1	1860.4	1849.8	1839.1	1828.4
37.5°	1838.3	1850.0	1861.8	1873.5	1885.2	1896.9	1908.6	1896.9	1885.2	1873.5	1861.8
40°	1870.3	1883.3	1896.4	1909.4	1922.4	1935.4	1948.4	1935.4	1922.4	1909.4	1896.4
42.5°	1903.1	1917.7	1932.2	1946.8	1961.4	1975.9	1990.5	1976.5	1962.4	1948.4	1934.3
45°	1937.4	1953.3	1969.2	1985.1	2000.9	2016.8	2032.7	2017.3	2002.0	1986.6	1971.3
47.5°	1970.2	1987.6	2005.1	2022.5	2039.9	2057.4	2074.8	2058.4	2042.0	2025.6	2009.2
50°	2006.2	2025.4	2044.7	2063.9	2083.2	2102.4	2121.7	2103.7	2085.8	2067.8	2049.9
52.5°	2042.0	2063.1	2084.2	2105.3	2126.3	2147.4	2168.5	2149.0	2129.5	2110.0	2090.5
55°	2074.0	2096.4	2118.8	2141.2	2163.5	2185.9	2208.3	2188.3	2168.2	2148.2	2128.2
57.5°	2106.9	2130.0	2153.2	2176.3	2199.5	2222.6	2245.8	2225.0	2204.2	2183.3	2162.5
60°	2131.8	2155.5	2179.2	2202.9	2226.5	2250.2	2273.9	2252.8	2231.7	2210.7	2189.6
62.5°	2149.8	2174.0	2198.2	2222.4	2246.6	2270.8	2295.0	2273.1	2251.3	2229.4	2207.6
65°	2159.9	2184.4	2208.8	2233.3	2257.8	2282.2	2306.7	2285.1	2263.5	2241.9	2220.3
67.5°	2157.6	2182.0	2206.5	2230.9	2255.4	2279.8	2304.3	2282.4	2260.6	2238.7	2216.9
70°	2139.6	2163.6	2187.5	2211.5	2235.4	2259.4	2283.3	2261.7	2240.1	2218.5	2196.9
72.5°	2101.3	2125.0	2148.7	2172.4	2196.0	2219.7	2243.4	2222.1	2200.7	2179.4	2158.1
75°	2045.2	2068.1	2091.0	2113.9	2136.8	2159.7	2182.6	2162.0	2141.5	2120.9	2100.4
77.5°	1974.9	1997.0	2019.2	2041.3	2063.4	2085.5	2107.6	2087.3	2067.0	2046.7	2026.4
80°	1894.5	1916.4	1938.2	1960.1	1982.0	2003.8	2025.7	2005.9	1986.1	1966.4	1946.6
82.5°	1808.6	1830.0	1851.3	1872.7	1894.0	1915.4	1936.7	1917.2	1897.7	1878.1	1858.6
85°	1726.7	1747.2	1767.8	1788.3	1808.9	1829.4	1850.0	1831.0	1812.0	1793.0	1774.0
87.5°	1649.4	1669.9	1690.5	1711.0	1731.6	1752.1	1772.7	1753.7	1734.7	1715.7	1696.7
90°	1583.0	1602.5	1622.1	1641.6	1661.1	1680.6	1700.1	1681.9	1663.7	1645.5	1627.3
92.5°	1523.7	1542.2	1560.7	1579.2	1597.6	1616.1	1634.6	1617.4	1600.2	1583.1	1565.9
95°	1468.3	1486.2	1504.2	1522.1	1540.1	1558.0	1576.0	1559.6	1543.2	1526.8	1510.4
97.5°	1416.8	1434.0	1451.1	1468.3	1485.5	1502.6	1519.8	1504.2	1488.6	1473.0	1457.4
100°	1368.4	1385.0	1401.7	1418.3	1435.0	1451.6	1468.3	1452.9	1437.6	1422.2	1406.9
102.5°	1320.0	1336.1	1352.3	1368.4	1384.5	1400.7	1416.8	1401.7	1386.6	1371.5	1356.4
105°	1272.4	1288.3	1304.1	1320.0	1335.9	1351.7	1367.6	1352.8	1337.9	1323.1	1308.3
107.5°	1222.4	1238.0	1253.7	1269.3	1284.9	1300.5	1316.1	1301.5	1287.0	1272.4	1257.8
110°	1170.1	1185.5	1200.8	1216.2	1231.5	1246.9	1262.2	1247.9	1233.6	1219.3	1205.0



TEST NUMBER: P201411

CATALOG NUMBER: 8LBLED-LD4-14-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°	1114.7	1129.5	1144.4	1159.2	1174.0	1188.9	1203.7	1189.9	1176.1	1162.3	1148.5
115°	1060.0	1074.6	1089.2	1103.8	1118.3	1132.9	1147.5	1134.0	1120.4	1106.9	1093.4
117.5°	1004.6	1018.7	1032.7	1046.8	1060.8	1074.9	1088.9	1075.9	1062.9	1049.9	1036.9
120°	946.9	959.6	972.4	985.1	997.9	1010.6	1023.4	1011.4	999.4	987.5	975.5
122.5°	888.3	901.1	913.8	926.6	939.3	952.1	964.8	953.4	941.9	930.5	919.0
125°	830.6	842.8	855.0	867.2	879.5	891.7	903.9	892.7	881.5	870.3	859.1
127.5°	768.9	780.9	792.8	804.8	816.8	828.7	840.7	830.3	819.9	809.5	799.1
130°	708.8	720.2	731.7	743.1	754.6	766.0	777.5	767.3	757.2	747.0	736.9
132.5°	645.6	656.3	666.9	677.6	688.3	698.9	709.6	700.2	690.9	681.5	672.1
135°	579.2	589.6	600.1	610.5	620.9	631.3	641.7	632.8	624.0	615.1	606.3
137.5°	516.0	526.4	536.8	547.2	557.6	568.0	578.4	570.1	561.8	553.4	545.1
140°	450.4	460.8	471.3	481.7	492.1	502.5	512.9	505.9	498.8	491.8	484.8
142.5°	385.6	396.3	406.9	417.6	428.3	438.9	449.6	443.4	437.1	430.9	424.6
145°	327.1	338.5	350.0	361.4	372.9	384.3	395.8	389.6	383.3	377.1	370.8
147.5°	270.1	281.3	292.4	303.6	314.8	326.0	337.2	331.5	325.8	320.0	314.3
150°	214.7	225.4	236.0	246.7	257.4	268.0	278.7	274.0	269.3	264.6	259.9
152.5°	165.5	175.4	185.2	195.1	205.0	214.9	224.8	220.4	216.0	211.5	207.1
155°	119.5	128.1	136.6	145.2	153.8	162.4	171.0	167.4	163.7	160.1	156.4
157.5°	79.6	86.6	93.7	100.7	107.7	114.8	121.8	118.7	115.6	112.4	109.3
160°	43.7	48.9	54.1	59.3	64.5	69.7	74.9	72.8	70.7	68.7	66.6
162.5°	16.4	19.5	22.6	25.7	28.9	32.0	35.1	34.1	33.0	32.0	31.0
165°	3.1	4.2	5.2	6.3	7.3	8.4	9.4	9.4	9.4	9.4	9.4
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201411

CATALOG NUMBER: 8LBLELD4-14-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°	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7
2.5°	1534.4	1535.5	1536.5	1537.6	1538.6	1541.2	1543.8	1546.4	1549.0	1551.6	1554.2
5°	1511.8	1512.0	1512.3	1512.5	1512.8	1515.7	1518.5	1521.4	1524.3	1527.1	1530.0
7.5°	1496.4	1496.4	1496.4	1496.4	1496.4	1498.2	1500.0	1501.9	1503.7	1505.5	1507.3
10°	1490.2	1489.4	1488.6	1487.8	1487.0	1488.3	1489.6	1490.9	1492.2	1493.6	1494.9
12.5°	1502.4	1500.3	1498.3	1496.2	1494.1	1493.3	1492.5	1491.7	1490.9	1490.2	1489.4
15°	1539.4	1536.3	1533.1	1530.0	1526.9	1521.7	1516.5	1511.3	1506.1	1500.8	1495.6
17.5°	1576.3	1572.1	1567.9	1563.8	1559.6	1551.0	1542.4	1533.9	1525.3	1516.7	1508.1
20°	1614.6	1609.6	1604.7	1599.7	1594.8	1584.1	1573.5	1562.8	1552.1	1541.5	1530.8
22.5°	1647.9	1641.6	1635.4	1629.1	1622.9	1610.7	1598.4	1586.2	1574.0	1561.7	1549.5
25°	1682.7	1676.0	1669.2	1662.5	1655.7	1641.4	1627.1	1612.8	1598.5	1584.1	1569.8
27.5°	1716.3	1708.7	1701.2	1693.6	1686.1	1669.7	1653.3	1636.9	1620.5	1604.2	1587.8
30°	1749.6	1740.7	1731.9	1723.0	1714.2	1695.5	1676.7	1658.0	1639.3	1620.5	1601.8
32.5°	1783.1	1773.5	1763.9	1754.2	1744.6	1723.0	1701.4	1679.8	1658.2	1636.7	1615.1
35°	1817.8	1807.1	1796.4	1785.8	1775.1	1750.9	1726.7	1702.5	1678.3	1654.1	1629.9
37.5°	1850.0	1838.3	1826.6	1814.9	1803.2	1776.9	1750.6	1724.4	1698.1	1671.8	1645.5
40°	1883.3	1870.3	1857.3	1844.3	1831.3	1802.4	1773.5	1744.6	1715.7	1686.9	1658.0
42.5°	1920.3	1906.2	1892.2	1878.1	1864.1	1832.1	1800.1	1768.1	1736.1	1704.0	1672.0
45°	1955.9	1940.6	1925.2	1909.9	1894.5	1859.6	1824.8	1789.9	1755.0	1720.2	1685.3
47.5°	1992.9	1976.5	1960.1	1943.7	1927.3	1888.8	1850.3	1811.8	1773.3	1734.7	1696.2
50°	2031.9	2014.0	1996.0	1978.1	1960.1	1917.9	1875.8	1833.6	1791.5	1749.3	1707.2
52.5°	2070.9	2051.4	2031.9	2012.4	1992.9	1946.8	1900.8	1854.7	1808.7	1762.6	1716.6
55°	2108.1	2088.1	2068.1	2048.0	2028.0	1978.0	1928.1	1878.1	1828.2	1778.2	1728.3
57.5°	2141.7	2120.9	2100.0	2079.2	2058.4	2004.8	1951.2	1897.6	1844.0	1790.4	1736.8
60°	2168.5	2147.4	2126.4	2105.3	2084.2	2027.2	1970.2	1913.2	1856.2	1799.3	1742.3
62.5°	2185.7	2163.9	2142.0	2120.2	2098.3	2039.0	1979.6	1920.3	1861.0	1801.6	1742.3
65°	2198.7	2177.1	2155.5	2133.9	2112.3	2050.6	1989.0	1927.3	1865.6	1804.0	1742.3
67.5°	2195.0	2173.2	2151.3	2129.5	2107.6	2044.9	1982.2	1919.5	1856.8	1794.0	1731.3
70°	2175.3	2153.7	2132.1	2110.5	2088.9	2025.7	1962.4	1899.2	1836.0	1772.7	1709.5
72.5°	2136.7	2115.4	2094.1	2072.7	2051.4	1988.7	1926.0	1863.3	1800.6	1737.8	1675.1
75°	2079.8	2059.3	2038.7	2018.2	1997.6	1935.7	1873.7	1811.8	1749.9	1687.9	1626.0
77.5°	2006.2	1985.9	1965.6	1945.3	1925.0	1865.1	1805.3	1745.4	1685.6	1625.7	1565.9
80°	1926.8	1907.0	1887.3	1867.5	1847.7	1789.4	1731.1	1672.8	1614.5	1556.3	1498.0
82.5°	1839.1	1819.6	1800.0	1780.5	1761.0	1704.8	1648.6	1592.4	1536.2	1480.0	1423.8
85°	1755.1	1736.1	1717.1	1698.1	1679.1	1625.0	1570.9	1516.7	1462.6	1408.5	1354.4
87.5°	1677.8	1658.8	1639.8	1620.8	1601.8	1549.8	1497.7	1445.7	1393.6	1341.6	1289.5
90°	1609.0	1590.8	1572.6	1554.4	1536.2	1486.5	1436.8	1387.1	1337.4	1287.7	1238.0
92.5°	1548.7	1531.5	1514.4	1497.2	1480.0	1432.1	1384.2	1336.4	1288.5	1240.6	1192.7
95°	1494.1	1477.7	1461.3	1444.9	1428.5	1382.2	1335.9	1289.6	1243.3	1196.9	1150.6
97.5°	1441.7	1426.1	1410.5	1394.9	1379.3	1334.3	1289.3	1244.3	1199.3	1154.2	1109.2
100°	1391.5	1376.2	1360.8	1345.5	1330.1	1286.1	1242.2	1198.2	1154.2	1110.3	1066.3
102.5°	1341.4	1326.3	1311.2	1296.1	1281.0	1238.3	1195.6	1153.0	1110.3	1067.6	1024.9
105°	1293.4	1278.6	1263.8	1248.9	1234.1	1192.2	1150.3	1108.4	1066.5	1024.7	982.8
107.5°	1243.3	1228.7	1214.1	1199.6	1185.0	1144.4	1103.8	1063.2	1022.6	982.0	941.4
110°	1190.6	1176.3	1162.0	1147.7	1133.4	1094.4	1055.4	1016.3	977.3	938.3	899.3



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CATALOG NUMBER: 8LBLED-LD4-14-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°	1134.8	1121.0	1107.2	1093.4	1079.6	1042.1	1004.7	967.2	929.7	892.3	854.8
115°	1079.8	1066.3	1052.8	1039.2	1025.7	989.8	953.9	918.0	882.1	846.1	810.2
117.5°	1023.8	1010.8	997.8	984.8	971.8	937.2	902.6	868.0	833.4	798.8	764.2
120°	963.5	951.5	939.6	927.6	915.6	882.3	849.0	815.7	782.4	749.1	715.8
122.5°	907.6	896.1	884.7	873.2	861.8	828.8	795.7	762.7	729.6	696.6	663.5
125°	848.0	836.8	825.6	814.4	803.2	771.7	740.2	708.8	677.3	645.8	614.3
127.5°	788.6	778.2	767.8	757.4	747.0	716.8	686.6	656.5	626.3	596.1	565.9
130°	726.7	716.6	706.4	696.3	686.1	658.5	630.9	603.4	575.8	548.2	520.6
132.5°	662.8	653.4	644.0	634.7	625.3	599.3	573.3	547.2	521.2	495.2	469.2
135°	597.4	588.6	579.7	570.9	562.0	538.3	514.6	491.0	467.3	443.6	419.9
137.5°	536.8	528.5	520.1	511.8	503.5	481.9	460.3	438.7	417.1	395.5	373.9
140°	477.7	470.7	463.7	456.6	449.6	429.0	408.5	387.9	367.4	346.8	326.3
142.5°	418.4	412.1	405.9	399.6	393.4	374.9	356.5	338.0	319.5	301.1	282.6
145°	364.6	358.3	352.1	345.8	339.6	322.7	305.8	288.8	271.9	255.0	238.1
147.5°	308.6	302.9	297.1	291.4	285.7	270.6	255.5	240.4	225.3	210.3	195.2
150°	255.3	250.6	245.9	241.2	236.5	223.0	209.4	195.9	182.4	168.8	155.3
152.5°	202.7	198.3	193.8	189.4	185.0	173.6	162.1	150.7	139.2	127.8	116.3
155°	152.8	149.1	145.5	141.8	138.2	128.6	118.9	109.3	99.7	90.0	80.4
157.5°	106.2	103.1	99.9	96.8	93.7	86.7	79.6	72.6	65.6	58.5	51.5
160°	64.5	62.4	60.4	58.3	56.2	51.5	46.8	42.2	37.5	32.8	28.1
162.5°	29.9	28.9	27.9	26.8	25.8	23.7	21.6	19.5	17.4	15.4	13.3
165°	9.4	9.4	9.4	9.4	9.4	8.6	7.8	7.0	6.2	5.5	4.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201411

CATALOG NUMBER: 8LBLELD4-14-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°	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7
2.5°	1556.8	1559.4	1562.0	1562.5	1563.0	1563.6	1564.1	1564.6	1565.1	1565.7	1566.2
5°	1532.9	1535.7	1538.6	1539.6	1540.7	1541.7	1542.7	1543.8	1544.8	1545.8	1546.9
7.5°	1509.2	1511.0	1512.8	1514.1	1515.4	1516.7	1518.0	1519.3	1520.6	1521.9	1523.2
10°	1496.2	1497.5	1498.8	1499.1	1499.3	1499.6	1499.8	1500.1	1500.3	1500.6	1500.8
12.5°	1488.6	1487.8	1487.0	1485.7	1484.4	1483.1	1481.8	1480.5	1479.2	1477.9	1476.6
15°	1490.4	1485.2	1480.0	1476.4	1472.7	1469.1	1465.4	1461.8	1458.1	1454.5	1450.8
17.5°	1499.6	1491.0	1482.4	1475.1	1467.8	1460.5	1453.2	1446.0	1438.7	1431.4	1424.1
20°	1520.1	1509.5	1498.8	1486.6	1474.3	1462.1	1449.9	1437.6	1425.4	1413.2	1400.9
22.5°	1537.3	1525.0	1512.8	1495.6	1478.4	1461.3	1444.1	1426.9	1409.7	1392.6	1375.4
25°	1555.5	1541.2	1526.9	1505.0	1483.2	1461.3	1439.4	1417.6	1395.7	1373.8	1352.0
27.5°	1571.4	1555.0	1538.6	1512.3	1486.0	1459.7	1433.4	1407.2	1380.9	1354.6	1328.3
30°	1583.1	1564.3	1545.6	1515.7	1485.8	1455.8	1425.9	1396.0	1366.1	1336.1	1306.2
32.5°	1593.5	1571.9	1550.3	1517.5	1484.7	1451.9	1419.1	1386.4	1353.6	1320.8	1288.0
35°	1605.7	1581.5	1557.3	1521.7	1486.0	1450.4	1414.7	1379.1	1343.4	1307.8	1272.1
37.5°	1619.3	1593.0	1566.7	1527.7	1488.6	1449.6	1410.6	1371.5	1332.5	1293.5	1254.4
40°	1629.1	1600.2	1571.3	1529.4	1487.5	1445.6	1403.7	1361.9	1320.0	1278.1	1236.2
42.5°	1640.0	1608.0	1576.0	1531.0	1486.0	1441.0	1396.0	1350.9	1305.9	1260.9	1215.9
45°	1650.4	1615.6	1580.7	1532.3	1483.9	1435.5	1387.1	1338.7	1290.3	1241.9	1193.5
47.5°	1657.7	1619.2	1580.7	1529.4	1478.2	1426.9	1375.7	1324.4	1273.2	1221.9	1170.7
50°	1665.0	1622.9	1580.7	1526.1	1471.4	1416.8	1362.1	1307.5	1252.8	1198.2	1143.5
52.5°	1670.5	1624.5	1578.4	1520.9	1463.4	1405.9	1348.4	1290.8	1233.3	1175.8	1118.3
55°	1678.3	1628.4	1578.4	1517.5	1456.6	1395.7	1334.8	1274.0	1213.1	1152.2	1091.3
57.5°	1683.2	1629.6	1576.0	1512.0	1448.0	1384.0	1320.0	1255.9	1191.9	1127.9	1063.9
60°	1685.3	1628.3	1571.3	1504.4	1437.6	1370.7	1303.8	1237.0	1170.1	1103.2	1036.4
62.5°	1683.0	1623.6	1564.3	1494.3	1424.3	1354.3	1284.3	1214.4	1144.4	1074.4	1004.4
65°	1680.6	1619.0	1557.3	1483.9	1410.5	1337.2	1263.8	1190.4	1117.0	1043.7	970.3
67.5°	1668.6	1605.9	1543.2	1467.2	1391.2	1315.3	1239.3	1163.3	1087.3	1011.4	935.4
70°	1646.3	1583.0	1519.8	1442.0	1364.2	1286.4	1208.6	1130.8	1053.0	975.2	897.4
72.5°	1612.4	1549.7	1487.0	1407.9	1328.8	1249.7	1170.6	1091.5	1012.4	933.3	854.2
75°	1564.1	1502.1	1440.2	1361.4	1282.5	1203.7	1124.8	1046.0	967.1	888.3	809.4
77.5°	1506.0	1446.2	1386.3	1308.5	1230.7	1152.9	1075.1	997.3	919.5	841.7	763.9
80°	1439.7	1381.4	1323.1	1247.1	1171.1	1095.2	1019.2	943.2	867.2	791.3	715.3
82.5°	1367.6	1311.4	1255.2	1182.1	1109.0	1035.9	962.8	889.6	816.5	743.4	670.3
85°	1300.2	1246.1	1192.0	1120.7	1049.4	978.1	906.8	835.5	764.2	692.9	621.6
87.5°	1237.5	1185.4	1133.4	1064.7	996.0	927.3	858.6	790.0	721.3	652.6	583.9
90°	1188.3	1138.6	1088.9	1022.0	955.2	888.3	821.4	754.6	687.7	620.8	554.0
92.5°	1144.9	1097.0	1049.1	984.3	919.5	854.7	789.9	725.2	660.4	595.6	530.8
95°	1104.3	1058.0	1011.7	948.7	885.7	822.8	759.8	696.8	633.8	570.9	507.9
97.5°	1064.2	1019.2	974.2	912.8	851.4	790.0	728.6	667.1	605.7	544.3	482.9
100°	1022.3	978.4	934.4	874.8	815.2	755.6	696.0	636.5	576.9	517.3	457.7
102.5°	982.3	939.6	896.9	838.6	780.3	722.0	663.7	605.5	547.2	488.9	430.6
105°	940.9	899.0	857.1	800.6	744.2	687.7	631.2	574.8	518.3	461.8	405.4
107.5°	900.8	860.2	819.6	764.4	709.3	654.1	599.0	543.8	488.7	433.5	378.4
110°	860.2	821.2	782.2	728.6	675.0	621.4	567.8	514.2	460.6	407.0	353.4



TEST NUMBER: P201411

CATALOG NUMBER: 8LBLED-LD4-14-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°	817.3	779.9	742.4	690.4	638.3	586.3	534.2	482.2	430.1	378.1	326.0
115°	774.3	738.4	702.5	652.3	602.1	551.9	501.7	451.4	401.2	351.0	300.8
117.5°	729.6	695.0	660.4	612.3	564.1	516.0	467.9	419.7	371.6	323.5	275.3
120°	682.5	649.2	615.9	570.1	524.3	478.5	432.7	386.9	341.1	295.3	249.5
122.5°	630.5	597.4	564.4	521.7	479.0	436.4	393.7	351.0	308.3	265.7	223.0
125°	582.9	551.4	519.9	479.6	439.2	398.9	358.6	318.2	277.9	237.6	197.2
127.5°	535.8	505.6	475.4	437.7	399.9	362.2	324.5	286.7	249.0	211.3	173.5
130°	493.1	465.5	437.9	402.0	366.1	330.2	294.3	258.3	222.4	186.5	150.6
132.5°	443.1	417.1	391.1	358.1	325.0	292.0	258.9	225.9	192.8	159.8	126.7
135°	396.3	372.6	348.9	318.5	288.0	257.6	227.1	196.7	166.2	135.8	105.3
137.5°	352.3	330.7	309.1	281.0	252.9	224.8	196.7	168.6	140.5	112.4	84.3
140°	305.7	285.2	264.6	239.6	214.6	189.7	164.7	139.7	114.7	89.8	64.8
142.5°	264.1	245.7	227.2	205.1	183.0	160.8	138.7	116.6	94.5	72.3	50.2
145°	221.1	204.2	187.3	168.6	149.8	131.1	112.4	93.6	74.9	56.2	37.4
147.5°	180.1	165.0	149.9	134.8	119.7	104.6	89.5	74.5	59.4	44.3	29.2
150°	141.8	128.2	114.7	103.0	91.3	79.6	67.9	56.2	44.5	32.8	21.1
152.5°	104.9	93.4	82.0	73.7	65.3	57.0	48.7	40.3	32.0	23.7	15.3
155°	70.8	61.1	51.5	46.3	41.1	35.9	30.7	25.5	20.3	15.1	9.9
157.5°	44.5	37.4	30.4	27.3	24.2	21.0	17.9	14.8	11.7	8.5	5.4
160°	23.5	18.8	14.1	12.8	11.5	10.2	8.9	7.5	6.2	4.9	3.6
162.5°	11.2	9.1	7.0	6.2	5.4	4.7	3.9	3.1	2.3	1.6	0.8
165°	3.9	3.1	2.3	2.0	1.8	1.5	1.3	1.0	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	1.0	1.3	1.5	1.8	2.0
175°	0.0	0.0	0.0	0.3	0.5	0.8	1.0	1.3	1.5	1.8	2.0
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: P201411

CATALOG NUMBER: 8LBLEDD4-14-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°	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7
2.5°	1566.7	1570.9	1575.0	1579.2	1583.3	1587.5	1591.6	1595.8	1599.9	1604.1	1603.8
5°	1547.9	1553.4	1558.8	1564.3	1569.8	1575.2	1580.7	1586.2	1591.6	1597.1	1598.9
7.5°	1524.5	1531.0	1537.5	1544.0	1550.5	1557.1	1563.6	1570.1	1576.6	1583.1	1586.7
10°	1501.1	1508.4	1515.7	1523.0	1530.3	1537.5	1544.8	1552.1	1559.4	1566.7	1572.2
12.5°	1475.3	1482.8	1490.4	1497.9	1505.5	1513.0	1520.6	1528.1	1535.7	1543.2	1550.8
15°	1447.2	1454.7	1462.3	1469.8	1477.4	1484.9	1492.5	1500.0	1507.6	1515.1	1525.0
17.5°	1416.8	1424.6	1432.4	1440.2	1448.0	1455.8	1463.6	1471.4	1479.2	1487.0	1498.7
20°	1388.7	1395.7	1402.7	1409.8	1416.8	1423.8	1430.8	1437.9	1444.9	1451.9	1466.2
22.5°	1358.2	1364.2	1370.2	1376.2	1382.2	1388.1	1394.1	1400.1	1406.1	1412.1	1429.0
25°	1330.1	1334.5	1339.0	1343.4	1347.8	1352.3	1356.7	1361.1	1365.6	1370.0	1389.2
27.5°	1302.0	1304.6	1307.2	1309.8	1312.4	1315.1	1317.7	1320.3	1322.9	1325.5	1347.6
30°	1276.3	1276.3	1276.3	1276.3	1276.3	1276.3	1276.3	1276.3	1276.3	1276.3	1301.8
32.5°	1255.2	1251.6	1247.9	1244.3	1240.6	1237.0	1233.3	1229.7	1226.0	1222.4	1251.5
35°	1236.5	1228.7	1220.9	1213.1	1205.3	1197.4	1189.6	1181.8	1174.0	1166.2	1199.5
37.5°	1215.4	1203.7	1192.0	1180.3	1168.6	1156.8	1145.1	1133.4	1121.7	1110.0	1147.5
40°	1194.3	1178.4	1162.6	1146.7	1130.8	1115.0	1099.1	1083.2	1067.4	1051.5	1093.4
42.5°	1170.9	1151.1	1131.3	1111.6	1091.8	1072.0	1052.2	1032.5	1012.7	992.9	1039.2
45°	1145.1	1121.4	1097.7	1074.1	1050.4	1026.7	1003.0	979.4	955.7	932.0	982.7
47.5°	1119.4	1091.3	1063.2	1035.1	1007.0	978.9	950.8	922.7	894.6	866.5	921.9
50°	1088.9	1057.4	1025.9	994.5	963.0	931.5	900.0	868.6	837.1	805.6	864.9
52.5°	1060.8	1025.2	989.5	953.9	918.2	882.6	846.9	811.3	775.6	740.0	803.7
55°	1030.4	991.1	951.8	912.5	873.2	834.0	794.7	755.4	716.1	676.8	744.4
57.5°	999.9	957.2	914.6	871.9	829.2	786.6	743.9	701.2	658.6	615.9	686.9
60°	969.5	922.7	875.8	829.0	782.2	735.3	688.5	641.7	594.8	548.0	623.2
62.5°	934.4	884.4	834.5	784.5	734.6	684.6	634.7	584.7	534.8	484.8	562.9
65°	896.9	844.3	791.8	739.2	686.7	634.1	581.6	529.0	476.5	423.9	504.8
67.5°	859.4	804.5	749.6	694.7	639.8	584.9	530.0	475.1	420.2	365.3	448.6
70°	819.6	762.6	705.6	648.7	591.7	534.7	477.7	420.8	363.8	306.8	392.1
72.5°	775.1	716.8	658.5	600.3	542.0	483.7	425.4	367.2	308.9	250.6	337.5
75°	730.6	671.3	612.0	552.6	493.3	434.0	374.7	315.3	256.0	196.7	284.6
77.5°	686.1	626.3	566.4	506.6	446.7	386.9	327.0	267.2	207.3	147.5	236.0
80°	639.3	580.0	520.7	461.3	402.0	342.7	283.4	224.0	164.7	105.4	193.9
82.5°	597.2	538.1	479.1	420.0	360.9	301.9	242.8	183.7	124.7	65.6	153.0
85°	550.3	493.1	435.8	378.6	321.3	264.1	206.8	149.6	92.3	35.1	121.0
87.5°	515.2	459.3	403.3	347.4	291.4	235.5	179.5	123.6	67.6	11.7	95.5
90°	487.1	433.0	378.9	324.7	270.6	216.5	162.4	108.2	54.1	0.0	80.9
92.5°	466.0	414.2	362.4	310.7	258.9	207.1	155.3	103.6	51.8	0.0	77.5
95°	444.9	395.5	346.0	296.6	247.2	197.7	148.3	98.9	49.4	0.0	74.7
97.5°	421.5	374.7	327.8	281.0	234.2	187.3	140.5	93.7	46.8	0.0	71.3
100°	398.1	353.9	309.6	265.4	221.2	176.9	132.7	88.5	44.2	0.0	68.2
102.5°	372.3	330.9	289.6	248.2	206.8	165.5	124.1	82.7	41.4	0.0	64.0
105°	348.9	310.1	271.4	232.6	193.8	155.1	116.3	77.5	38.8	0.0	60.6
107.5°	323.2	287.3	251.4	215.5	179.6	143.6	107.7	71.8	35.9	0.0	57.2
110°	299.8	266.5	233.2	199.9	166.6	133.2	99.9	66.6	33.3	0.0	53.6





TEST NUMBER: P201411

CATALOG NUMBER: 8LBLED-LD4-14-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°	274.0	243.6	213.1	182.7	152.2	121.8	91.3	60.9	30.4	0.0	50.0
115°	250.6	222.8	194.9	167.1	139.2	111.4	83.5	55.7	27.8	0.0	45.8
117.5°	227.2	202.2	177.2	152.2	127.2	102.3	77.3	52.3	27.3	2.3	43.9
120°	203.7	181.3	158.9	136.6	114.2	91.8	69.4	47.1	24.7	2.3	40.0
122.5°	180.3	160.3	140.2	120.2	100.2	80.1	60.1	40.1	20.0	0.0	34.1
125°	156.9	139.7	122.5	105.4	88.2	71.0	53.8	36.7	19.5	2.3	32.0
127.5°	135.8	121.0	106.1	91.3	76.5	61.6	46.8	32.0	17.1	2.3	27.3
130°	114.7	102.2	89.7	77.2	64.7	52.3	39.8	27.3	14.8	2.3	22.6
132.5°	93.7	83.5	73.4	63.2	53.1	42.9	32.8	22.6	12.5	2.3	18.7
135°	74.9	66.8	58.8	50.7	42.6	34.6	26.5	18.4	10.4	2.3	15.1
137.5°	56.2	50.2	44.2	38.2	32.2	26.3	20.3	14.3	8.3	2.3	11.9
140°	39.8	35.6	31.5	27.3	23.1	19.0	14.8	10.6	6.5	2.3	9.1
142.5°	28.1	25.2	22.4	19.5	16.6	13.8	10.9	8.0	5.2	2.3	7.0
145°	18.7	16.9	15.1	13.2	11.4	9.6	7.8	5.9	4.1	2.3	5.7
147.5°	14.1	12.8	11.5	10.2	8.9	7.5	6.2	4.9	3.6	2.3	4.4
150°	9.4	8.6	7.8	7.0	6.2	5.5	4.7	3.9	3.1	2.3	3.9
152.5°	7.0	6.5	6.0	5.4	4.9	4.4	3.9	3.3	2.8	2.3	3.3
155°	4.7	4.4	4.2	3.9	3.6	3.4	3.1	2.8	2.6	2.3	2.8
157.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.6
160°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
162.5°	0.0	0.3	0.5	0.8	1.0	1.3	1.5	1.8	2.0	2.3	2.3
165°	0.0	0.3	0.5	0.8	1.0	1.3	1.5	1.8	2.0	2.3	2.0
167.5°	0.0	0.3	0.5	0.8	1.0	1.3	1.5	1.8	2.0	2.3	2.0
170°	0.0	0.3	0.5	0.8	1.0	1.3	1.5	1.8	2.0	2.3	2.0
172.5°	2.3	2.6	2.8	3.1	3.4	3.6	3.9	4.2	4.4	4.7	4.2
175°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.0
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: P201411

CATALOG NUMBER: 8LBLELD4-14-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°	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7
2.5°	1603.6	1603.3	1603.1	1602.8	1602.6	1602.3	1602.1	1601.8	1603.1	1604.4	1605.7
5°	1600.7	1602.6	1604.4	1606.2	1608.0	1609.9	1611.7	1613.5	1616.4	1619.2	1622.1
7.5°	1590.4	1594.0	1597.6	1601.3	1604.9	1608.5	1612.2	1615.8	1620.5	1625.2	1629.9
10°	1577.6	1583.1	1588.5	1594.0	1599.4	1604.9	1610.3	1615.8	1622.6	1629.3	1636.1
12.5°	1558.3	1565.9	1573.4	1581.0	1588.5	1596.1	1603.6	1611.2	1620.8	1630.4	1640.1
15°	1534.9	1544.8	1554.7	1564.5	1574.4	1584.3	1594.2	1604.1	1616.9	1629.6	1642.4
17.5°	1510.4	1522.1	1533.8	1545.6	1557.3	1569.0	1580.7	1592.4	1608.8	1625.2	1641.6
20°	1480.5	1494.8	1509.1	1523.5	1537.8	1552.1	1566.4	1580.7	1601.5	1622.3	1643.2
22.5°	1445.9	1462.8	1479.7	1496.7	1513.6	1530.5	1547.4	1564.3	1591.1	1617.9	1644.7
25°	1408.5	1427.7	1447.0	1466.2	1485.5	1504.7	1524.0	1543.2	1576.0	1608.8	1641.6
27.5°	1369.7	1391.8	1413.9	1436.1	1458.2	1480.3	1502.4	1524.5	1563.0	1601.5	1640.0
30°	1327.3	1352.8	1378.3	1403.8	1429.3	1454.8	1480.3	1505.8	1549.5	1593.2	1636.9
32.5°	1280.7	1309.8	1339.0	1368.1	1397.3	1426.4	1455.6	1484.7	1533.6	1582.5	1631.5
35°	1232.8	1266.1	1299.4	1332.8	1366.1	1399.4	1432.7	1466.0	1519.3	1572.7	1626.0
37.5°	1184.9	1222.4	1259.9	1297.3	1334.8	1372.3	1409.7	1447.2	1505.0	1562.7	1620.5
40°	1135.3	1177.2	1219.1	1260.9	1302.8	1344.7	1386.6	1428.5	1490.7	1552.9	1615.1
42.5°	1085.5	1131.9	1178.2	1224.5	1270.8	1317.2	1363.5	1409.8	1475.9	1542.0	1608.1
45°	1033.5	1084.2	1135.0	1185.7	1236.5	1287.2	1338.0	1388.7	1458.7	1528.7	1598.7
47.5°	977.3	1032.8	1088.2	1143.6	1199.0	1254.5	1309.9	1365.3	1439.5	1513.6	1587.8
50°	924.2	983.6	1042.9	1102.2	1161.5	1220.9	1280.2	1339.5	1417.3	1495.1	1572.9
52.5°	867.5	931.2	995.0	1058.7	1122.5	1186.2	1250.0	1313.7	1394.6	1475.5	1556.5
55°	812.1	879.7	947.4	1015.0	1082.7	1150.3	1218.0	1285.6	1370.2	1454.7	1539.3
57.5°	758.0	829.0	900.0	971.1	1042.1	1113.1	1184.2	1255.2	1343.1	1431.1	1519.0
60°	698.4	773.6	848.8	924.0	999.2	1074.4	1149.6	1224.8	1316.1	1407.4	1498.8
62.5°	640.9	719.0	797.0	875.1	953.1	1031.2	1109.2	1187.3	1282.0	1376.7	1471.4
65°	585.7	666.7	747.6	828.5	909.4	990.4	1071.3	1152.2	1249.8	1347.3	1444.9
67.5°	531.8	615.1	698.4	781.6	864.9	948.2	1031.4	1114.7	1215.4	1316.1	1416.8
70°	477.5	562.8	648.2	733.5	818.9	904.2	989.6	1074.9	1177.9	1281.0	1384.0
72.5°	424.4	511.3	598.2	685.1	772.0	858.9	945.8	1032.7	1137.0	1241.4	1345.7
75°	372.6	460.5	548.5	636.4	724.4	812.3	900.3	988.2	1093.6	1199.0	1304.4
77.5°	324.4	412.9	501.4	589.8	678.3	766.8	855.2	943.7	1049.1	1154.5	1259.9
80°	282.3	370.8	459.3	547.7	636.2	724.7	813.1	901.6	1005.9	1110.3	1214.6
82.5°	240.4	327.9	415.3	502.7	590.1	677.6	765.0	852.4	956.2	1060.0	1163.9
85°	206.8	292.7	378.6	464.4	550.3	636.2	722.0	807.9	910.2	1012.4	1114.7
87.5°	179.3	263.1	346.9	430.6	514.4	598.2	682.0	765.8	866.0	966.2	1066.3
90°	161.8	242.8	323.7	404.6	485.5	566.5	647.4	728.3	826.4	924.5	1022.6
92.5°	155.1	232.6	310.2	387.7	465.3	542.8	620.4	697.9	794.4	891.0	987.5
95°	149.4	224.0	298.7	373.4	448.1	522.7	597.4	672.1	766.8	861.5	956.2
97.5°	142.6	213.9	285.2	356.5	427.8	499.1	570.4	641.7	735.1	828.5	921.9
100°	136.4	204.5	272.7	340.9	409.1	477.2	545.4	613.6	705.4	797.3	889.1
102.5°	128.0	192.0	256.0	320.1	384.1	448.1	512.1	576.1	666.9	757.7	848.5
105°	121.2	181.9	242.5	303.1	363.7	424.4	485.0	545.6	634.3	723.1	811.8
107.5°	114.5	171.7	229.0	286.2	343.5	400.7	458.0	515.2	602.1	689.0	775.9
110°	107.2	160.8	214.4	268.0	321.6	375.2	428.8	482.4	567.2	652.0	736.9



TEST NUMBER: P201411

CATALOG NUMBER: 8LBLED-LD4-14-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°	99.9	149.9	199.8	249.8	299.7	349.7	399.6	449.6	531.8	614.0	696.3
115°	91.6	137.4	183.2	229.0	274.8	320.6	366.4	412.2	491.8	571.4	651.0
117.5°	85.6	127.2	168.8	210.5	252.1	293.7	335.4	377.0	454.0	531.0	608.1
120°	77.8	115.5	153.2	191.0	228.7	266.4	304.2	341.9	416.3	490.7	565.2
122.5°	68.2	102.3	136.4	170.4	204.5	238.6	272.7	306.8	378.1	449.4	520.7
125°	61.6	91.3	121.0	150.6	180.3	210.0	239.6	269.3	337.5	405.7	473.8
127.5°	52.3	77.3	102.3	127.2	152.2	177.2	202.2	227.2	291.5	355.7	420.0
130°	42.9	63.2	83.5	103.8	124.1	144.4	164.7	185.0	243.5	302.1	360.6
132.5°	35.1	51.5	67.9	84.3	100.7	117.1	133.5	149.9	202.5	255.0	307.6
135°	27.8	40.6	53.3	66.1	78.8	91.6	104.3	117.1	163.7	210.3	256.8
137.5°	21.6	31.2	40.8	50.5	60.1	69.7	79.4	89.0	130.4	171.7	213.1
140°	15.8	22.6	29.4	36.1	42.9	49.7	56.4	63.2	99.6	136.1	172.5
142.5°	11.7	16.4	21.1	25.7	30.4	35.1	39.8	44.5	75.7	106.9	138.2
145°	9.1	12.5	15.9	19.2	22.6	26.0	29.4	32.8	58.6	84.3	110.1
147.5°	6.5	8.6	10.7	12.7	14.8	16.9	19.0	21.1	42.4	63.8	85.1
150°	5.4	7.0	8.6	10.1	11.7	13.3	14.8	16.4	32.5	48.7	64.8
152.5°	4.4	5.4	6.5	7.5	8.6	9.6	10.7	11.7	23.4	35.1	46.8
155°	3.3	3.9	4.4	4.9	5.4	6.0	6.5	7.0	14.8	22.6	30.4
157.5°	2.8	3.1	3.4	3.6	3.9	4.2	4.4	4.7	9.4	14.1	18.7
160°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.9	7.5	10.1
162.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.9	4.7
165°	1.8	1.5	1.3	1.0	0.8	0.5	0.3	0.0	0.3	0.5	0.8
167.5°	1.8	1.5	1.3	1.0	0.8	0.5	0.3	0.0	0.0	0.0	0.0
170°	1.8	1.5	1.3	1.0	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°	1.8	1.5	1.3	1.0	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: P201411

CATALOG NUMBER: 8LBLEDD4-14-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°	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7
2.5°	1607.0	1608.3	1609.6	1610.9	1612.2	1613.5	1613.8	1614.0	1614.3	1614.5	1614.8
5°	1625.0	1627.8	1630.7	1633.6	1636.4	1639.3	1640.6	1641.9	1643.2	1644.5	1645.8
7.5°	1634.6	1639.2	1643.9	1648.6	1653.3	1658.0	1661.6	1665.3	1668.9	1672.6	1676.2
10°	1642.9	1649.6	1656.4	1663.2	1669.9	1676.7	1682.7	1688.7	1694.7	1700.7	1706.6
12.5°	1649.7	1659.3	1668.9	1678.6	1688.2	1697.8	1706.1	1714.4	1722.8	1731.1	1739.4
15°	1655.1	1667.9	1680.6	1693.4	1706.1	1718.9	1729.8	1740.7	1751.7	1762.6	1773.5
17.5°	1658.0	1674.4	1690.8	1707.2	1723.6	1740.0	1755.6	1771.2	1786.8	1802.4	1818.1
20°	1664.0	1684.8	1705.6	1726.5	1747.3	1768.1	1787.4	1806.6	1825.9	1845.1	1864.4
22.5°	1671.5	1698.3	1725.1	1751.9	1778.7	1805.5	1827.4	1849.2	1871.1	1892.9	1914.8
25°	1674.4	1707.1	1739.9	1772.7	1805.5	1838.3	1863.0	1887.7	1912.5	1937.2	1961.9
27.5°	1678.5	1717.1	1755.6	1794.1	1832.6	1871.1	1898.4	1925.7	1953.1	1980.4	2007.7
30°	1680.6	1724.4	1768.1	1811.8	1855.5	1899.2	1929.1	1959.0	1989.0	2018.9	2048.8
32.5°	1680.4	1729.3	1778.2	1827.2	1876.1	1925.0	1958.0	1991.1	2024.1	2057.2	2090.2
35°	1679.3	1732.7	1786.0	1839.3	1892.7	1946.0	1982.4	2018.9	2055.3	2091.7	2128.2
37.5°	1678.3	1736.0	1793.8	1851.6	1909.3	1967.1	2006.7	2046.2	2085.8	2125.3	2164.9
40°	1677.3	1739.4	1801.6	1863.8	1926.0	1988.2	2030.6	2073.0	2115.4	2157.8	2200.3
42.5°	1674.2	1740.2	1806.3	1872.4	1938.5	2004.6	2050.7	2096.7	2142.8	2188.8	2234.9
45°	1668.7	1738.6	1808.6	1878.6	1948.6	2018.6	2068.0	2117.5	2166.9	2216.4	2265.8
47.5°	1661.9	1736.1	1810.2	1884.4	1958.5	2032.7	2086.0	2139.4	2192.7	2246.0	2299.4
50°	1650.7	1728.5	1806.3	1884.1	1961.9	2039.7	2096.9	2154.2	2211.4	2268.7	2325.9
52.5°	1637.4	1718.3	1799.2	1880.2	1961.1	2042.0	2103.7	2165.4	2227.0	2288.7	2350.4
55°	1623.9	1708.4	1793.0	1877.6	1962.1	2046.7	2112.3	2177.9	2243.4	2309.0	2374.6
57.5°	1607.0	1694.9	1782.9	1870.8	1958.8	2046.7	2115.9	2185.1	2254.4	2323.6	2392.8
60°	1590.1	1681.4	1772.7	1864.1	1955.4	2046.7	2119.0	2191.4	2263.7	2336.1	2408.4
62.5°	1566.1	1660.9	1755.6	1850.3	1945.0	2039.7	2114.9	2190.1	2265.3	2340.5	2415.7
65°	1542.5	1640.0	1737.6	1835.2	1932.7	2030.3	2108.1	2185.9	2263.7	2341.5	2419.3
67.5°	1517.5	1618.2	1718.9	1819.6	1920.3	2021.0	2100.4	2179.7	2259.1	2338.4	2417.8
70°	1487.0	1590.1	1693.1	1796.1	1899.2	2002.2	2082.9	2163.5	2244.2	2324.9	2405.5
72.5°	1450.1	1554.4	1658.8	1763.1	1867.5	1971.8	2053.8	2135.7	2217.7	2299.7	2381.6
75°	1409.8	1515.1	1620.5	1725.9	1831.3	1936.7	2019.2	2101.7	2184.1	2266.6	2349.1
77.5°	1365.3	1470.6	1576.0	1681.4	1786.8	1892.2	1974.4	2056.6	2138.9	2221.1	2303.3
80°	1319.0	1423.3	1527.7	1632.0	1736.4	1840.7	1922.4	2004.1	2085.8	2167.5	2249.2
82.5°	1267.7	1371.5	1475.3	1579.2	1683.0	1786.8	1866.9	1947.1	2027.2	2107.4	2187.5
85°	1216.9	1319.2	1421.4	1523.7	1625.9	1728.2	1807.3	1886.4	1965.5	2044.6	2123.8
87.5°	1166.5	1266.7	1366.9	1467.0	1567.2	1667.4	1744.7	1822.0	1899.2	1976.5	2053.8
90°	1120.7	1218.8	1316.9	1415.0	1513.1	1611.2	1686.4	1761.6	1836.8	1912.0	1987.1
92.5°	1084.0	1180.6	1277.1	1373.6	1470.2	1566.7	1640.1	1713.5	1786.8	1860.2	1933.6
95°	1050.9	1145.7	1240.4	1335.1	1429.8	1524.5	1596.8	1669.2	1741.5	1813.8	1886.2
97.5°	1015.3	1108.8	1202.2	1295.6	1389.0	1482.4	1552.1	1621.9	1691.6	1761.3	1831.1
100°	981.0	1072.8	1164.7	1256.5	1348.4	1440.2	1508.4	1576.6	1644.7	1712.9	1781.1
102.5°	939.3	1030.2	1121.0	1211.8	1302.6	1393.4	1460.5	1527.7	1594.8	1661.9	1729.1
105°	900.5	989.3	1078.0	1166.7	1255.5	1344.2	1410.3	1476.4	1542.5	1608.6	1674.6
107.5°	862.8	949.8	1036.7	1123.6	1210.5	1297.4	1361.7	1425.9	1490.2	1554.5	1618.7
110°	821.7	906.5	991.3	1076.2	1161.0	1245.8	1308.8	1371.8	1434.7	1497.7	1560.7



TEST NUMBER: P201411

CATALOG NUMBER: 8LBLED-LD4-14-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°
112.5°	778.5	860.7	942.9	1025.2	1107.4	1189.6	1251.0	1312.4	1373.8	1435.2	1496.7
115°	730.6	810.3	889.9	969.5	1049.1	1128.7	1189.1	1249.4	1309.8	1370.2	1430.5
117.5°	685.1	762.1	839.1	916.2	993.2	1070.2	1128.5	1186.8	1245.1	1303.4	1361.6
120°	639.6	714.0	788.4	862.9	937.3	1011.7	1067.6	1123.6	1179.5	1235.4	1291.4
122.5°	592.0	663.2	734.5	805.8	877.1	948.4	1002.3	1056.1	1110.0	1163.9	1217.7
125°	542.0	610.2	678.4	746.5	814.7	882.9	934.4	985.9	1037.4	1088.9	1140.5
127.5°	484.3	548.5	612.8	677.1	741.3	805.6	855.8	906.0	956.2	1006.4	1056.7
130°	419.2	477.7	536.3	594.8	653.4	711.9	762.6	813.4	864.1	914.9	965.6
132.5°	360.1	412.7	465.2	517.8	570.3	622.9	673.1	723.3	773.6	823.8	874.0
135°	303.4	350.0	396.6	443.1	489.7	536.3	585.5	634.7	683.8	733.0	782.2
137.5°	254.5	295.8	337.2	378.6	419.9	461.3	507.1	552.9	598.7	644.5	690.3
140°	208.9	245.4	281.8	318.2	354.7	391.1	431.9	472.8	513.6	554.5	595.3
142.5°	169.4	200.6	231.8	263.1	294.3	325.5	361.4	397.3	433.2	469.1	505.1
145°	135.8	161.6	187.3	213.1	238.8	264.6	295.6	326.5	357.5	388.5	419.4
147.5°	106.4	127.8	149.1	170.4	191.8	213.1	239.1	265.1	291.2	317.2	343.2
150°	80.9	97.1	113.2	129.3	145.5	161.6	183.7	205.8	227.9	250.0	272.2
152.5°	58.5	70.3	82.0	93.7	105.4	117.1	135.3	153.5	171.7	189.9	208.2
155°	38.2	46.1	53.9	61.7	69.5	77.3	91.6	105.9	120.2	134.5	148.9
157.5°	23.4	28.1	32.8	37.4	42.1	46.8	57.5	68.1	78.8	89.5	100.1
160°	12.7	15.4	18.0	20.6	23.2	25.8	32.6	39.3	46.1	52.8	59.6
162.5°	5.5	6.2	7.0	7.8	8.6	9.4	13.3	17.2	21.1	25.0	28.9
165°	1.0	1.3	1.5	1.8	2.0	2.3	3.9	5.4	7.0	8.6	10.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.8	1.0	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: P201411

CATALOG NUMBER: 8LBLEDD4-14-ASYMW-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7
2.5°	1615.0	1615.3	1615.5	1615.8	1614.5	1613.2	1611.9	1610.6	1609.3	1608.0	1606.7
5°	1647.1	1648.4	1649.7	1651.0	1651.3	1651.5	1651.8	1652.0	1652.3	1652.5	1652.8
7.5°	1679.9	1683.5	1687.2	1690.8	1691.1	1691.3	1691.6	1691.8	1692.1	1692.3	1692.6
10°	1712.6	1718.6	1724.6	1730.6	1731.4	1732.2	1732.9	1733.7	1734.5	1735.3	1736.0
12.5°	1747.7	1756.1	1764.4	1772.7	1774.8	1776.9	1779.0	1781.1	1783.1	1785.2	1787.3
15°	1784.4	1795.4	1806.3	1817.2	1821.6	1826.0	1830.5	1834.9	1839.3	1843.7	1848.2
17.5°	1833.7	1849.3	1864.9	1880.5	1885.4	1890.4	1895.3	1900.3	1905.2	1910.2	1915.1
20°	1883.6	1902.9	1922.1	1941.4	1947.6	1953.9	1960.1	1966.4	1972.6	1978.9	1985.1
22.5°	1936.6	1958.5	1980.3	2002.2	2009.5	2016.8	2024.1	2031.4	2038.6	2045.9	2053.2
25°	1986.6	2011.4	2036.1	2060.8	2068.9	2076.9	2085.0	2093.1	2101.1	2109.2	2117.3
27.5°	2035.0	2062.4	2089.7	2117.0	2126.4	2135.7	2145.1	2154.5	2163.8	2173.2	2182.6
30°	2078.7	2108.7	2138.6	2168.5	2179.4	2190.4	2201.3	2212.2	2223.2	2234.1	2245.0
32.5°	2123.3	2156.3	2189.4	2222.4	2234.6	2246.8	2259.1	2271.3	2283.5	2295.7	2308.0
35°	2164.6	2201.0	2237.5	2273.9	2287.7	2301.5	2315.3	2329.1	2342.8	2356.6	2370.4
37.5°	2204.4	2244.0	2283.5	2323.1	2338.4	2353.8	2369.1	2384.5	2399.8	2415.2	2430.5
40°	2242.7	2285.1	2327.5	2369.9	2387.1	2404.3	2421.4	2438.6	2455.8	2473.0	2490.1
42.5°	2280.9	2327.0	2373.0	2419.1	2437.8	2456.6	2475.3	2494.0	2512.8	2531.5	2550.2
45°	2315.3	2364.7	2414.2	2463.6	2484.4	2505.2	2526.0	2546.8	2567.7	2588.5	2609.3
47.5°	2352.7	2406.0	2459.4	2512.7	2535.1	2557.5	2579.8	2602.2	2624.6	2647.0	2669.3
50°	2383.2	2440.4	2497.7	2554.9	2579.1	2603.3	2627.5	2651.7	2675.9	2700.1	2724.3
52.5°	2412.1	2473.7	2535.4	2597.1	2623.1	2649.1	2675.1	2701.1	2727.2	2753.2	2779.2
55°	2440.2	2505.7	2571.3	2636.9	2664.2	2691.5	2718.9	2746.2	2773.5	2800.8	2828.2
57.5°	2462.0	2531.3	2600.5	2669.7	2698.6	2727.5	2756.3	2785.2	2814.1	2843.0	2871.8
60°	2480.8	2553.1	2625.5	2697.8	2727.7	2757.6	2787.6	2817.5	2847.4	2877.3	2907.3
62.5°	2490.9	2566.1	2641.3	2716.5	2747.5	2778.4	2809.4	2840.4	2871.3	2902.3	2933.3
65°	2497.1	2574.9	2652.7	2730.5	2761.7	2793.0	2824.2	2855.4	2886.7	2917.9	2949.1
67.5°	2497.1	2576.5	2655.8	2735.2	2766.7	2798.2	2829.7	2861.2	2892.6	2924.1	2955.6
70°	2486.2	2566.9	2647.5	2728.2	2759.9	2791.7	2823.4	2855.2	2886.9	2918.7	2950.4
72.5°	2463.6	2545.6	2627.5	2709.5	2741.2	2773.0	2804.7	2836.5	2868.2	2900.0	2931.7
75°	2431.6	2514.0	2596.5	2679.0	2710.5	2742.0	2773.5	2805.0	2836.4	2867.9	2899.4
77.5°	2385.5	2467.8	2550.0	2632.2	2663.4	2694.6	2725.9	2757.1	2788.3	2819.5	2850.8
80°	2330.9	2412.6	2494.3	2576.0	2607.0	2637.9	2668.9	2699.9	2730.8	2761.8	2792.8
82.5°	2267.7	2347.8	2428.0	2508.1	2538.8	2569.5	2600.2	2630.9	2661.6	2692.3	2723.0
85°	2202.9	2282.0	2361.1	2440.2	2470.1	2500.0	2530.0	2559.9	2589.8	2619.7	2649.7
87.5°	2131.1	2208.3	2285.6	2362.9	2392.6	2422.2	2451.9	2481.5	2511.2	2540.8	2570.5
90°	2062.3	2137.5	2212.7	2287.9	2317.0	2346.2	2375.3	2404.5	2433.6	2462.8	2491.9
92.5°	2007.0	2080.3	2153.7	2227.1	2255.2	2283.3	2311.4	2339.5	2367.6	2395.7	2423.8
95°	1958.5	2030.8	2103.2	2175.5	2202.0	2228.6	2255.1	2281.7	2308.2	2334.8	2361.3
97.5°	1900.8	1970.5	2040.3	2110.0	2136.5	2163.1	2189.6	2216.1	2242.7	2269.2	2295.7
100°	1849.3	1917.4	1985.6	2053.8	2079.3	2104.8	2130.3	2155.8	2181.3	2206.8	2232.3
102.5°	1796.2	1863.3	1930.5	1997.6	2022.3	2047.0	2071.7	2096.4	2121.2	2145.9	2170.6
105°	1740.7	1806.8	1872.9	1939.0	1963.2	1987.4	2011.6	2035.8	2060.0	2084.2	2108.4
107.5°	1683.0	1747.3	1811.5	1875.8	1899.7	1923.7	1947.6	1971.5	1995.5	2019.4	2043.3
110°	1623.7	1686.6	1749.6	1812.6	1836.0	1859.4	1882.8	1906.2	1929.7	1953.1	1976.5



TEST NUMBER: P201411

CATALOG NUMBER: 8LBLED-LD4-14-ASYMW-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1558.1	1619.5	1680.9	1742.3	1764.9	1787.6	1810.2	1832.8	1855.5	1878.1	1900.7
115°	1490.9	1551.3	1611.6	1672.0	1693.9	1715.7	1737.6	1759.5	1781.3	1803.2	1825.1
117.5°	1419.9	1478.2	1536.5	1594.8	1616.1	1637.5	1658.8	1680.1	1701.5	1722.8	1744.1
120°	1347.3	1403.2	1459.2	1515.1	1535.9	1556.7	1577.6	1598.4	1619.2	1640.0	1660.9
122.5°	1271.6	1325.5	1379.3	1433.2	1453.2	1473.3	1493.3	1513.3	1533.4	1553.4	1573.4
125°	1192.0	1243.5	1295.0	1346.5	1366.0	1385.5	1405.1	1424.6	1444.1	1463.6	1483.2
127.5°	1106.9	1157.1	1207.3	1257.5	1276.2	1295.0	1313.7	1332.5	1351.2	1370.0	1388.7
130°	1016.4	1067.1	1117.9	1168.6	1186.3	1204.0	1221.7	1239.4	1257.0	1274.7	1292.4
132.5°	924.2	974.5	1024.7	1074.9	1092.1	1109.2	1126.4	1143.6	1160.7	1177.9	1195.1
135°	831.4	880.5	929.7	978.9	995.3	1011.7	1028.1	1044.5	1060.8	1077.2	1093.6
137.5°	736.1	781.9	827.7	873.5	889.6	905.8	921.9	938.0	954.2	970.3	986.4
140°	636.2	677.0	717.9	758.7	775.6	792.5	809.5	826.4	843.3	860.2	877.2
142.5°	541.0	576.9	612.8	648.7	666.4	684.1	701.8	719.5	737.1	754.8	772.5
145°	450.4	481.4	512.3	543.3	562.0	580.8	599.5	618.2	637.0	655.7	674.4
147.5°	369.2	395.3	421.3	447.3	466.3	485.3	504.3	523.3	542.2	561.2	580.2
150°	294.3	316.4	338.5	360.6	378.3	396.0	413.7	431.4	449.1	466.8	484.5
152.5°	226.4	244.6	262.8	281.0	297.4	313.8	330.2	346.6	362.9	379.3	395.7
155°	163.2	177.5	191.8	206.1	221.2	236.3	251.4	266.5	281.5	296.6	311.7
157.5°	110.8	121.5	132.1	142.8	155.6	168.3	181.1	193.8	206.6	219.3	232.1
160°	66.3	73.1	79.8	86.6	96.8	106.9	117.1	127.2	137.4	147.5	157.7
162.5°	32.8	36.7	40.6	44.5	51.5	58.5	65.6	72.6	79.6	86.6	93.7
165°	11.7	13.3	14.8	16.4	20.6	24.7	28.9	33.1	37.2	41.4	45.6
167.5°	1.5	1.8	2.0	2.3	3.9	5.4	7.0	8.6	10.1	11.7	13.3
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: P201411

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**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	1580.7	1580.7
2.5°	1605.4	1604.1
5°	1653.0	1653.3
7.5°	1692.8	1693.1
10°	1736.8	1737.6
12.5°	1789.4	1791.5
15°	1852.6	1857.0
17.5°	1920.1	1925.0
20°	1991.4	1997.6
22.5°	2060.5	2067.8
25°	2125.3	2133.4
27.5°	2191.9	2201.3
30°	2256.0	2266.9
32.5°	2320.2	2332.4
35°	2384.2	2398.0
37.5°	2445.9	2461.2
40°	2507.3	2524.5
42.5°	2569.0	2587.7
45°	2630.1	2650.9
47.5°	2691.7	2714.1
50°	2748.5	2772.7
52.5°	2805.2	2831.2
55°	2855.5	2882.8
57.5°	2900.7	2929.6
60°	2937.2	2967.1
62.5°	2964.2	2995.2
65°	2980.4	3011.6
67.5°	2987.1	3018.6
70°	2982.2	3013.9
72.5°	2963.5	2995.2
75°	2930.9	2962.4
77.5°	2882.0	2913.2
80°	2823.7	2854.7
82.5°	2753.7	2784.4
85°	2679.6	2709.5
87.5°	2600.1	2629.8
90°	2521.1	2550.2
92.5°	2451.9	2480.0
95°	2387.9	2414.4
97.5°	2322.3	2348.8
100°	2257.8	2283.3
102.5°	2195.3	2220.0
105°	2132.6	2156.8
107.5°	2067.3	2091.2
110°	1999.9	2023.3





TEST NUMBER: P201411

CATALOG NUMBER: 8LBLED-LD4-14-ASYMW-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
112.5°	1923.4	1946.0
115°	1846.9	1868.8
117.5°	1765.5	1786.8
120°	1681.7	1702.5
122.5°	1593.5	1613.5
125°	1502.7	1522.2
127.5°	1407.5	1426.2
130°	1310.1	1327.8
132.5°	1212.2	1229.4
135°	1110.0	1126.4
137.5°	1002.6	1018.7
140°	894.1	911.0
142.5°	790.2	807.9
145°	693.2	711.9
147.5°	599.2	618.2
150°	502.2	519.9
152.5°	412.1	428.5
155°	326.8	341.9
157.5°	244.8	257.6
160°	167.8	178.0
162.5°	100.7	107.7
165°	49.7	53.9
167.5°	14.8	16.4
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)