

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: P201414

Luminaire Tested: **8LBLED-LD4-16-ASYMW-UNV-L835-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28229)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8LBLEDD4-16-ASYMW-UNV-L835-CD2-U
Description: 8 ft. Low Bay Linear, 10000 lm, Wht Asym lens, 3.5K
Light Source: (616) 3500K CCT, 80 CRI LEDS
2UT217098A8350C, 2UT217056A8350B
Ballast/Driver: OSRAM
(OT85W01800CC), (OT50W01000CC)

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16156.5 lumens
Efficiency: N/A
Efficacy: 120.9 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

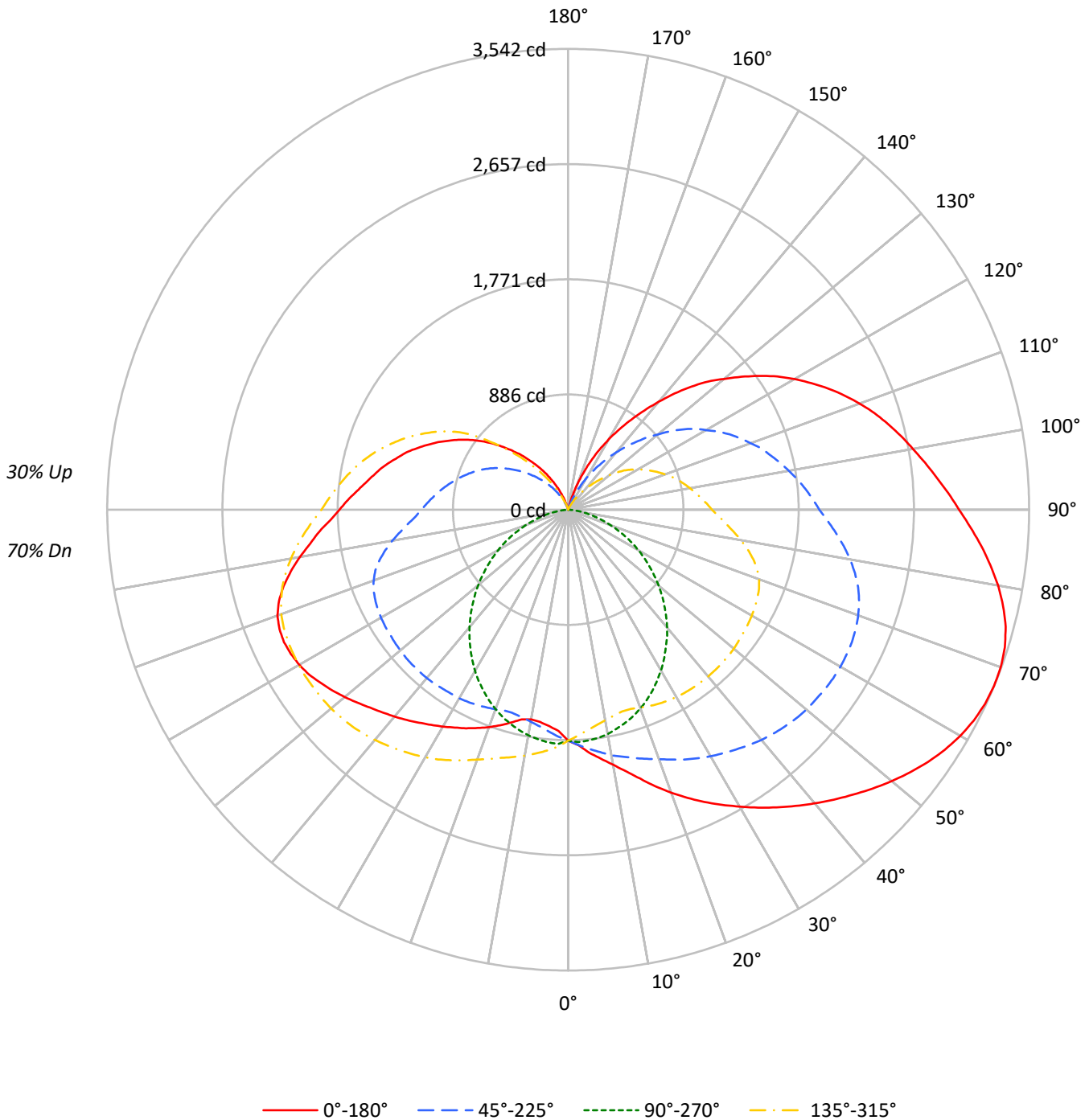
Input Watts (W): 133.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	14298	14298	14298	14298
5°	13678	14368	12179	14480
10°	13349	14260	10977	14340
15°	13385	14046	10592	14127
20°	13653	13798	10493	13848
25°	13937	13470	10425	13505
30°	14257	13078	10417	13114
35°	14671	12600	10497	12638
40°	15154	12164	10672	12144
45°	15714	11611	10921	11566
50°	16372	11028	11307	10981
55°	17073	10358	11738	10278
60°	17752	9598	12174	9569
65°	18351	8707	12511	8707
70°	18845	7605	12665	7561
75°	19181	6280	12471	6280
80°	19297	4553	12042	4715
85°	19329	2252	11643	2672



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	1.0
10°-20°	510.9	3.2
20°-30°	860.2	5.3
30°-40°	1193.8	7.4
40°-50°	1493.3	9.2
50°-60°	1734.7	10.7
60°-70°	1877.3	11.6
70°-80°	1847.1	11.4
80°-90°	1639.3	10.1
90°-100°	1416.3	8.8
100°-110°	1194.4	7.4
110°-120°	935.8	5.8
120°-130°	657.3	4.1
130°-140°	388.8	2.4
140°-150°	179.2	1.1
150°-160°	53.8	0.3
160°-170°	5.0	0.0
170°-180°	0.0	0.0
0°-30°	1540.6	9.5
0°-40°	2734.4	16.9
0°-60°	5962.4	36.9
0°-90°	11326.1	70.1
90°-120°	3546.4	22.0
90°-150°	4771.7	29.5
90°-180°	4830.0	29.9
0°-180°	16156.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1775	1775	1775	1775	1775	
5°	1876	1781	1670	1794	1876	182
15°	2140	1696	1694	1706	2140	613
25°	2478	1534	1854	1538	2478	1151
35°	2792	1304	1998	1308	2792	1758
45°	3097	1046	2152	1042	3097	2401
55°	3378	765	2322	759	3378	3027
65°	3534	482	2409	482	3534	3498
75°	3480	221	2263	221	3480	3667
85°	3186	32	1919	38	3186	2636
90°	3004	0	1757	2	3004	1648
95°	2842	0	1630	2	2842	2291
105°	2544	0	1415	2	2544	2690
115°	2204	0	1184	2	2204	2187
125°	1792	0	937	2	1792	1610
135°	1336	0	666	2	1336	1037
145°	846	0	405	2	846	539
155°	409	0	172	2	409	197
165°	65	0	8	4	65	26
175°	0	0	0	4	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°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1812.3	1811.6	1811.0	1810.3	1809.6	1809.0	1808.3	1807.6	1807.0	1806.3	1806.7
5°	1875.5	1873.3	1871.1	1868.9	1866.7	1864.5	1862.3	1860.1	1857.9	1855.7	1854.6
7.5°	1930.8	1927.9	1925.1	1922.2	1919.4	1916.5	1913.7	1910.8	1908.0	1905.1	1902.3
10°	1990.1	1986.2	1982.2	1978.3	1974.3	1970.4	1966.4	1962.5	1958.5	1954.6	1950.4
12.5°	2059.3	2054.0	2048.8	2043.5	2038.2	2033.0	2027.7	2022.4	2017.2	2011.9	2004.4
15°	2140.3	2133.7	2127.1	2120.5	2113.9	2107.4	2100.8	2094.2	2087.6	2081.0	2069.4
17.5°	2229.3	2221.0	2212.6	2204.3	2195.9	2187.6	2179.2	2170.9	2162.5	2154.2	2137.9
20°	2314.2	2304.1	2294.0	2283.9	2273.8	2263.7	2253.6	2243.5	2233.4	2223.3	2202.9
22.5°	2397.2	2385.6	2373.9	2362.3	2350.7	2339.0	2327.4	2315.8	2304.1	2292.5	2268.8
25°	2478.3	2465.6	2452.8	2440.1	2427.3	2414.6	2401.8	2389.1	2376.3	2363.6	2336.4
27.5°	2557.3	2543.5	2529.6	2515.8	2502.0	2488.1	2474.3	2460.5	2446.6	2432.8	2401.8
30°	2634.4	2619.2	2604.1	2588.9	2573.8	2558.6	2543.5	2528.3	2513.2	2498.0	2463.5
32.5°	2715.4	2698.5	2681.6	2664.7	2647.8	2630.9	2614.0	2597.1	2580.2	2563.3	2525.1
35°	2792.5	2774.1	2755.6	2737.2	2718.7	2700.3	2681.8	2663.4	2644.9	2626.5	2584.6
37.5°	2869.6	2849.6	2829.6	2809.6	2789.6	2769.7	2749.7	2729.7	2709.7	2689.7	2644.2
40°	2946.7	2925.2	2903.7	2882.1	2860.6	2839.1	2817.6	2796.0	2774.5	2753.0	2703.8
42.5°	3021.8	2998.7	2975.7	2952.6	2929.5	2906.5	2883.4	2860.3	2837.3	2814.2	2760.8
45°	3096.9	3072.1	3047.3	3022.4	2997.6	2972.8	2948.0	2923.1	2898.3	2873.5	2816.0
47.5°	3172.0	3145.4	3118.8	3092.3	3065.7	3039.1	3012.5	2986.0	2959.4	2932.8	2870.9
50°	3245.1	3216.8	3188.4	3160.1	3131.8	3103.4	3075.1	3046.8	3018.4	2990.1	2923.3
52.5°	3314.2	3284.1	3254.0	3224.0	3193.9	3163.8	3133.7	3103.7	3073.6	3043.5	2971.7
55°	3377.5	3345.9	3314.3	3282.6	3251.0	3219.4	3187.8	3156.1	3124.5	3092.9	3016.7
57.5°	3432.8	3400.1	3367.4	3334.7	3302.0	3269.2	3236.5	3203.8	3171.1	3138.4	3057.8
60°	3478.3	3444.9	3411.5	3378.2	3344.8	3311.4	3278.0	3244.7	3211.3	3177.9	3093.1
62.5°	3511.9	3477.9	3443.8	3409.8	3375.8	3341.7	3307.7	3273.7	3239.6	3205.6	3117.3
65°	3533.6	3499.3	3465.1	3430.8	3396.6	3362.3	3328.1	3293.8	3259.6	3225.3	3134.2
67.5°	3541.5	3507.2	3473.0	3438.7	3404.5	3370.2	3336.0	3301.7	3267.5	3233.2	3139.7
70°	3537.6	3503.3	3469.1	3434.8	3400.6	3366.3	3332.1	3297.8	3263.6	3229.3	3134.0
72.5°	3517.8	3483.3	3448.8	3414.4	3379.9	3345.4	3310.9	3276.5	3242.0	3207.5	3111.5
75°	3480.3	3446.3	3412.2	3378.2	3344.1	3310.1	3276.0	3242.0	3207.9	3173.9	3077.5
77.5°	3422.9	3389.5	3356.1	3322.8	3289.4	3256.0	3222.6	3189.3	3155.9	3122.5	3026.3
80°	3353.8	3320.9	3287.9	3255.0	3222.0	3189.1	3156.1	3123.2	3090.2	3057.3	2962.0
82.5°	3272.7	3240.2	3207.7	3175.2	3142.7	3110.3	3077.8	3045.3	3012.8	2980.3	2886.3
85°	3185.8	3153.7	3121.7	3089.6	3057.5	3025.5	2993.4	2961.3	2929.3	2897.2	2804.8
87.5°	3092.9	3061.3	3029.7	2998.0	2966.4	2934.8	2903.2	2871.5	2839.9	2808.3	2718.1
90°	3004.0	2972.4	2940.8	2909.1	2877.5	2845.9	2814.3	2782.6	2751.0	2719.4	2631.6
92.5°	2922.9	2892.4	2861.9	2831.3	2800.8	2770.3	2739.8	2709.2	2678.7	2648.2	2562.8
95°	2841.9	2812.5	2783.1	2753.6	2724.2	2694.8	2665.4	2635.9	2606.5	2577.1	2494.1
97.5°	2764.8	2736.0	2707.3	2678.5	2649.7	2621.0	2592.2	2563.4	2534.7	2505.9	2424.9
100°	2689.7	2661.4	2633.1	2604.7	2576.4	2548.1	2519.8	2491.4	2463.1	2434.8	2355.5
102.5°	2618.6	2590.7	2562.8	2534.9	2507.0	2479.2	2451.3	2423.4	2395.5	2367.6	2289.9
105°	2543.5	2516.1	2488.6	2461.2	2433.7	2406.3	2378.8	2351.4	2323.9	2296.5	2220.3
107.5°	2468.4	2441.0	2413.5	2386.1	2358.6	2331.2	2303.7	2276.3	2248.8	2221.4	2147.8
110°	2383.4	2356.4	2329.4	2302.4	2275.4	2248.3	2221.3	2194.3	2167.3	2140.3	2068.5



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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°	2296.5	2271.0	2245.5	2220.1	2194.6	2169.1	2143.6	2118.2	2092.7	2067.2	1996.5
115°	2203.6	2178.8	2154.0	2129.1	2104.3	2079.5	2054.7	2029.8	2005.0	1980.2	1912.4
117.5°	2106.7	2082.5	2058.4	2034.2	2010.1	1985.9	1961.8	1937.6	1913.5	1889.3	1823.9
120°	2007.9	1984.4	1960.9	1937.4	1913.9	1890.5	1867.0	1843.5	1820.0	1796.5	1732.8
122.5°	1905.1	1882.5	1859.9	1837.3	1814.7	1792.0	1769.4	1746.8	1724.2	1701.6	1641.0
125°	1792.5	1771.4	1750.3	1729.3	1708.2	1687.1	1666.0	1645.0	1623.9	1602.8	1544.4
127.5°	1677.9	1658.1	1638.4	1618.6	1598.8	1579.1	1559.3	1539.5	1519.8	1500.0	1443.8
130°	1563.2	1544.5	1525.9	1507.2	1488.6	1469.9	1451.3	1432.6	1414.0	1395.3	1340.0
132.5°	1458.5	1439.4	1420.3	1401.2	1382.1	1363.0	1343.9	1324.8	1305.7	1286.6	1235.0
135°	1336.0	1318.0	1300.0	1282.0	1264.0	1245.9	1227.9	1209.9	1191.9	1173.9	1125.2
137.5°	1211.5	1194.1	1176.8	1159.4	1142.1	1124.7	1107.4	1090.0	1072.7	1055.3	1010.7
140°	1083.0	1067.6	1052.3	1036.9	1021.5	1006.2	990.8	975.4	960.1	944.7	903.6
142.5°	960.5	946.9	933.3	919.6	906.0	892.4	878.8	865.1	851.5	837.9	800.4
145°	845.9	833.8	821.7	809.7	797.6	785.5	773.4	761.4	749.3	737.2	702.1
147.5°	733.2	722.2	711.2	700.3	689.3	678.3	667.3	656.4	645.4	634.4	602.8
150°	624.5	614.8	605.2	595.5	585.9	576.2	566.6	556.9	547.3	537.6	509.0
152.5°	517.8	508.4	498.9	489.5	480.0	470.6	461.1	451.7	442.2	432.8	408.4
155°	409.1	401.4	393.7	386.0	378.3	370.7	363.0	355.3	347.6	339.9	318.8
157.5°	310.3	303.9	297.6	291.2	284.8	278.5	272.1	265.7	259.4	253.0	235.2
160°	217.4	212.1	206.9	201.6	196.3	191.1	185.8	180.5	175.3	170.0	156.8
162.5°	128.5	125.0	121.5	117.9	114.4	110.9	107.4	103.8	100.3	96.8	88.7
165°	65.2	63.0	60.8	58.6	56.4	54.3	52.1	49.9	47.7	45.5	41.3
167.5°	21.7	20.8	19.9	19.1	18.2	17.3	16.4	15.6	14.7	13.8	12.3
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



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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°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1807.2	1807.6	1808.1	1808.5	1809.0	1809.4	1809.9	1810.3	1807.0	1803.7	1800.4
5°	1853.5	1852.4	1851.3	1850.3	1849.2	1848.1	1847.0	1845.9	1840.4	1834.9	1829.4
7.5°	1899.4	1896.6	1893.7	1890.9	1888.0	1885.2	1882.3	1879.5	1871.2	1862.8	1854.5
10°	1946.2	1942.1	1937.9	1933.7	1929.5	1925.4	1921.2	1917.0	1904.9	1892.8	1880.8
12.5°	1997.0	1989.5	1982.0	1974.6	1967.1	1959.6	1952.2	1944.7	1929.5	1914.4	1899.2
15°	2057.7	2046.1	2034.5	2022.8	2011.2	1999.6	1987.9	1976.3	1957.4	1938.5	1919.6
17.5°	2121.7	2105.4	2089.2	2072.9	2056.7	2040.4	2024.2	2007.9	1984.6	1961.3	1938.1
20°	2182.5	2162.0	2141.6	2121.2	2100.8	2080.3	2059.9	2039.5	2011.4	1983.3	1955.2
22.5°	2245.1	2221.4	2197.7	2173.9	2150.2	2126.5	2102.8	2079.1	2045.1	2011.0	1977.0
25°	2309.2	2281.9	2254.7	2227.5	2200.3	2173.0	2145.8	2118.6	2078.2	2037.8	1997.4
27.5°	2370.9	2339.9	2309.0	2278.0	2247.1	2216.1	2185.2	2154.2	2107.9	2061.5	2015.2
30°	2429.1	2394.6	2360.1	2325.7	2291.2	2256.7	2222.3	2187.8	2135.8	2083.7	2031.7
32.5°	2486.9	2448.7	2410.5	2372.2	2334.0	2295.8	2257.6	2219.4	2161.4	2103.4	2045.5
35°	2542.6	2500.7	2458.7	2416.8	2374.8	2332.9	2290.9	2249.0	2186.0	2123.0	2059.9
37.5°	2598.8	2553.3	2507.9	2462.4	2417.0	2371.5	2326.1	2280.6	2212.3	2144.0	2075.7
40°	2654.6	2605.4	2556.2	2507.1	2457.9	2408.7	2359.5	2310.3	2237.0	2163.6	2090.3
42.5°	2707.5	2654.1	2600.8	2547.4	2494.1	2440.7	2387.4	2334.0	2255.8	2177.6	2099.5
45°	2758.4	2700.9	2643.4	2585.8	2528.3	2470.8	2413.2	2355.7	2272.7	2189.7	2106.7
47.5°	2809.0	2747.0	2685.1	2623.2	2561.3	2499.3	2437.4	2375.5	2287.9	2200.3	2112.7
50°	2856.6	2789.8	2723.1	2656.3	2589.6	2522.8	2456.1	2389.3	2297.3	2205.3	2113.3
52.5°	2899.9	2828.1	2756.3	2684.4	2612.6	2540.8	2469.0	2397.2	2301.2	2205.3	2109.3
55°	2940.5	2864.3	2788.1	2711.9	2635.7	2559.5	2483.3	2407.1	2306.8	2206.4	2106.1
57.5°	2977.2	2896.6	2816.0	2735.5	2654.9	2574.3	2493.7	2413.1	2308.4	2203.6	2098.9
60°	3008.4	2923.6	2838.8	2754.1	2669.3	2584.5	2499.8	2415.0	2306.5	2198.0	2089.6
62.5°	3029.0	2940.8	2852.5	2764.2	2675.9	2587.7	2499.4	2411.1	2299.1	2187.1	2075.1
65°	3043.1	2951.9	2860.8	2769.7	2678.6	2587.4	2496.3	2405.2	2289.5	2173.7	2058.0
67.5°	3046.1	2952.6	2859.0	2765.5	2671.9	2578.4	2484.8	2391.3	2272.5	2153.7	2034.9
70°	3038.7	2943.4	2848.1	2752.8	2657.5	2562.2	2466.9	2371.6	2250.2	2128.7	2007.3
72.5°	3015.6	2919.6	2823.7	2727.7	2631.8	2535.8	2439.9	2343.9	2220.5	2097.1	1973.7
75°	2981.1	2884.7	2788.3	2691.9	2595.5	2499.1	2402.7	2306.3	2181.6	2056.9	1932.1
77.5°	2930.1	2834.0	2737.8	2641.6	2545.4	2449.3	2353.1	2256.9	2131.7	2006.6	1881.4
80°	2866.7	2771.4	2676.1	2580.8	2485.5	2390.2	2294.9	2199.6	2075.3	1951.0	1826.7
82.5°	2792.3	2698.3	2604.3	2510.4	2416.4	2322.4	2228.4	2134.4	2011.4	1888.5	1765.5
85°	2712.3	2619.9	2527.4	2435.0	2342.5	2250.1	2157.6	2065.2	1944.0	1822.8	1701.6
87.5°	2627.8	2537.6	2447.3	2357.1	2266.8	2176.6	2086.3	1996.1	1877.3	1758.5	1639.7
90°	2543.7	2455.9	2368.1	2280.2	2192.4	2104.6	2016.7	1928.9	1812.5	1696.1	1579.7
92.5°	2477.4	2392.0	2306.6	2221.1	2135.7	2050.3	1964.9	1879.5	1765.3	1651.1	1536.9
95°	2411.1	2328.1	2245.1	2162.0	2079.0	1996.0	1913.0	1830.0	1717.6	1605.2	1492.7
97.5°	2343.9	2262.8	2181.8	2100.8	2019.8	1938.7	1857.7	1776.7	1666.5	1556.2	1446.0
100°	2276.3	2197.0	2117.7	2038.5	1959.2	1879.9	1800.7	1721.4	1613.4	1505.3	1397.3
102.5°	2212.1	2134.4	2056.7	1978.9	1901.2	1823.5	1745.7	1668.0	1561.9	1455.9	1349.8
105°	2144.1	2067.9	1991.7	1915.5	1839.3	1763.1	1686.9	1610.7	1506.6	1402.5	1298.4
107.5°	2074.3	2000.7	1927.1	1853.6	1780.0	1706.4	1632.9	1559.3	1456.5	1353.8	1251.0
110°	1996.7	1924.9	1853.1	1781.3	1709.5	1637.7	1565.9	1494.1	1394.2	1294.3	1194.4



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLED-LD4-16-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°	1925.8	1855.1	1784.4	1713.6	1642.9	1572.2	1501.5	1430.8	1333.3	1235.8	1138.3
115°	1844.5	1776.7	1708.8	1641.0	1573.1	1505.3	1437.4	1369.6	1274.3	1179.0	1083.7
117.5°	1758.4	1693.0	1627.6	1562.1	1496.7	1431.3	1365.8	1300.4	1207.3	1114.2	1021.1
120°	1669.1	1605.4	1541.7	1478.1	1414.4	1350.7	1287.0	1223.3	1134.2	1045.0	955.9
122.5°	1580.4	1519.8	1459.2	1398.5	1337.9	1277.3	1216.7	1156.1	1069.8	983.5	897.2
125°	1486.0	1427.6	1369.2	1310.7	1252.3	1193.9	1135.5	1077.1	995.0	912.8	830.7
127.5°	1387.6	1331.4	1275.2	1218.9	1162.7	1106.5	1050.3	994.1	916.8	839.5	762.2
130°	1284.6	1229.3	1173.9	1118.6	1063.2	1007.9	952.5	897.2	826.3	755.4	684.4
132.5°	1183.4	1131.8	1080.2	1028.5	976.9	925.3	873.7	822.1	755.3	688.6	621.8
135°	1076.4	1027.7	978.9	930.2	881.4	832.7	783.9	735.2	673.9	612.7	551.4
137.5°	966.2	921.6	877.0	832.5	787.9	743.3	698.8	654.2	598.0	541.8	485.5
140°	862.6	821.5	780.4	739.4	698.3	657.2	616.2	575.1	523.7	472.3	420.9
142.5°	762.8	725.3	687.7	650.2	612.6	575.1	537.5	500.0	452.8	405.6	358.4
145°	666.9	631.8	596.7	561.5	526.4	491.3	456.1	421.0	379.9	338.9	297.8
147.5°	571.2	539.5	507.9	476.3	444.7	413.0	381.4	349.8	314.7	279.5	244.4
150°	480.5	451.9	423.4	394.8	366.3	337.7	309.2	280.6	252.1	223.5	195.0
152.5°	384.0	359.7	335.3	310.9	286.5	262.2	237.8	213.4	191.2	169.0	146.9
155°	297.7	276.7	255.6	234.5	213.4	192.4	171.3	150.2	134.2	118.1	102.1
157.5°	217.4	199.6	181.8	164.1	146.3	128.5	110.7	92.9	82.6	72.3	61.9
160°	143.6	130.5	117.3	104.1	90.9	77.8	64.6	51.4	45.7	40.0	34.3
162.5°	80.6	72.4	64.3	56.2	48.1	39.9	31.8	23.7	21.1	18.4	15.8
165°	37.1	33.0	28.8	24.6	20.4	16.3	12.1	7.9	7.0	6.1	5.3
167.5°	10.7	9.2	7.7	6.1	4.6	3.1	1.5	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: P201414

CATALOG NUMBER: 8LBLELD4-16-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°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1797.1	1793.8	1790.5	1787.2	1783.9	1780.6	1781.5	1782.4	1783.2	1784.1	1785.0
5°	1823.9	1818.5	1813.0	1807.5	1802.0	1796.5	1794.7	1793.0	1791.2	1789.4	1787.7
7.5°	1846.1	1837.8	1829.4	1821.1	1812.7	1804.4	1800.4	1796.5	1792.5	1788.6	1784.6
10°	1868.7	1856.6	1844.5	1832.5	1820.4	1808.3	1801.9	1795.6	1789.2	1782.8	1776.5
12.5°	1884.1	1868.9	1853.8	1838.6	1823.5	1808.3	1798.9	1789.4	1780.0	1770.5	1761.1
15°	1900.7	1881.9	1863.0	1844.1	1825.2	1806.3	1794.0	1781.7	1769.4	1757.1	1744.9
17.5°	1914.8	1891.5	1868.2	1845.0	1821.7	1798.4	1783.5	1768.5	1753.6	1738.7	1723.7
20°	1927.1	1899.0	1870.9	1842.8	1814.7	1786.6	1768.6	1750.6	1732.6	1714.6	1696.5
22.5°	1942.9	1908.9	1874.8	1840.8	1806.7	1772.7	1751.4	1730.1	1708.8	1687.5	1666.2
25°	1957.0	1916.6	1876.2	1835.8	1795.4	1755.0	1730.4	1705.8	1681.2	1656.6	1632.0
27.5°	1968.9	1922.5	1876.2	1829.9	1783.5	1737.2	1708.6	1680.1	1651.5	1623.0	1594.4
30°	1979.6	1927.6	1875.5	1823.5	1771.4	1719.4	1686.9	1654.4	1621.9	1589.4	1556.9
32.5°	1987.5	1929.5	1871.5	1813.6	1755.6	1697.6	1660.9	1624.3	1587.6	1550.9	1514.3
35°	1996.9	1933.9	1870.9	1807.8	1744.8	1681.8	1639.9	1597.9	1556.0	1514.1	1472.1
37.5°	2007.4	1939.2	1870.9	1802.6	1734.3	1666.0	1619.4	1572.9	1526.3	1479.8	1433.2
40°	2016.9	1943.6	1870.2	1796.9	1723.5	1650.2	1598.2	1546.1	1494.1	1442.0	1390.0
42.5°	2021.3	1943.1	1864.9	1786.8	1708.6	1630.4	1573.1	1515.8	1458.5	1401.2	1343.8
45°	2023.7	1940.7	1857.7	1774.7	1691.7	1608.7	1546.1	1483.5	1421.0	1358.4	1295.8
47.5°	2025.1	1937.4	1849.8	1762.2	1674.6	1587.0	1519.1	1451.3	1383.4	1315.6	1247.7
50°	2021.3	1929.3	1837.3	1745.3	1653.3	1561.3	1488.6	1415.9	1343.2	1270.5	1197.9
52.5°	2013.4	1917.4	1821.5	1725.5	1629.6	1533.6	1455.9	1378.1	1300.4	1222.7	1144.9
55°	2005.7	1905.4	1805.0	1704.7	1604.3	1504.0	1421.9	1339.7	1257.6	1175.5	1093.3
57.5°	1994.1	1889.4	1784.6	1679.9	1575.1	1470.4	1384.1	1297.8	1211.5	1125.2	1038.9
60°	1981.1	1872.6	1764.1	1655.7	1547.2	1438.7	1348.0	1257.3	1166.6	1075.9	985.3
62.5°	1963.1	1851.2	1739.2	1627.2	1515.2	1403.2	1308.8	1214.4	1119.9	1025.5	931.1
65°	1942.3	1826.5	1710.8	1595.1	1479.3	1363.6	1265.7	1167.7	1069.8	971.9	873.9
67.5°	1916.1	1797.3	1678.5	1559.7	1440.9	1322.1	1220.9	1119.7	1018.4	917.2	816.0
70°	1885.9	1764.4	1643.0	1521.6	1400.1	1278.7	1175.1	1071.4	967.8	864.1	760.5
72.5°	1850.3	1726.8	1603.4	1480.0	1356.6	1233.2	1127.6	1022.0	916.3	810.7	705.1
75°	1807.4	1682.7	1558.0	1433.2	1308.5	1183.8	1076.9	969.9	863.0	756.0	649.1
77.5°	1756.2	1631.1	1505.9	1380.7	1255.6	1130.4	1023.0	915.6	808.3	700.9	593.5
80°	1702.4	1578.2	1453.9	1329.6	1205.3	1081.0	973.4	865.8	758.2	650.6	543.0
82.5°	1642.5	1519.6	1396.6	1273.6	1150.7	1027.7	921.0	814.3	707.5	600.8	494.1
85°	1580.4	1459.1	1337.9	1216.7	1095.5	974.3	869.6	764.8	660.1	555.3	450.6
87.5°	1520.9	1402.1	1283.3	1164.5	1045.7	926.9	824.4	721.8	619.3	516.7	414.2
90°	1463.3	1347.0	1230.6	1114.2	997.8	881.4	783.5	685.5	587.6	489.7	391.7
92.5°	1422.7	1308.6	1194.4	1080.2	966.0	851.8	757.2	662.5	567.9	473.2	378.6
95°	1380.3	1267.9	1155.5	1043.0	930.6	818.2	727.3	636.4	545.5	454.6	363.6
97.5°	1335.8	1225.5	1115.3	1005.1	894.8	784.6	697.4	610.2	523.1	435.9	348.7
100°	1289.2	1181.2	1073.1	965.1	857.0	749.0	665.8	582.6	499.3	416.1	332.9
102.5°	1243.7	1137.7	1031.6	925.5	819.5	713.4	634.1	554.9	475.6	396.3	317.1
105°	1194.3	1090.3	986.2	882.1	778.0	673.9	599.0	524.1	449.3	374.4	299.5
107.5°	1148.2	1045.5	942.7	839.9	737.2	634.4	563.9	493.4	422.9	352.4	282.0
110°	1094.5	994.5	894.6	794.7	694.8	594.9	528.8	462.7	396.6	330.5	264.4



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLED-LD4-16-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°	1040.8	943.4	845.9	748.4	650.9	553.4	491.9	430.4	368.9	307.4	246.0
115°	988.4	893.1	797.8	702.5	607.2	511.9	455.0	398.1	341.3	284.4	227.5
117.5°	928.0	834.9	741.8	648.7	555.6	462.5	411.1	359.7	308.3	256.9	205.6
120°	866.7	777.6	688.4	599.3	510.1	421.0	374.2	327.4	280.7	233.9	187.1
122.5°	810.9	724.6	638.3	552.0	465.7	379.4	337.2	295.1	252.9	210.8	168.6
125°	748.6	666.4	584.3	502.2	420.0	337.9	300.4	262.8	225.3	187.7	150.2
127.5°	684.9	607.6	530.3	453.0	375.7	298.4	265.2	232.1	198.9	165.8	132.6
130°	613.5	542.6	471.7	400.7	329.8	258.9	230.1	201.4	172.6	143.8	115.1
132.5°	555.1	488.3	421.6	354.8	288.1	221.3	196.7	172.1	147.5	122.9	98.4
135°	490.1	428.9	367.6	306.3	245.1	183.8	163.4	143.0	122.5	102.1	81.7
137.5°	429.3	373.1	316.9	260.6	204.4	148.2	131.7	115.3	98.8	82.3	65.9
140°	369.5	318.2	266.8	215.4	164.0	112.6	100.1	87.6	75.1	62.6	50.0
142.5°	311.2	263.9	216.7	169.5	122.3	75.1	66.8	58.4	50.1	41.7	33.4
145°	256.7	215.7	174.6	133.5	92.5	51.4	45.7	40.0	34.3	28.6	22.8
147.5°	209.3	174.1	139.0	103.9	68.7	33.6	29.9	26.1	22.4	18.7	14.9
150°	166.4	137.9	109.3	80.8	52.2	23.7	21.1	18.4	15.8	13.2	10.5
152.5°	124.7	102.5	80.3	58.2	36.0	13.8	12.3	10.7	9.2	7.7	6.1
155°	86.1	70.0	54.0	38.0	21.9	5.9	5.2	4.6	3.9	3.3	2.6
157.5°	51.6	41.3	31.0	20.6	10.3	0.0	0.0	0.0	0.0	0.0	0.0
160°	28.6	22.8	17.1	11.4	5.7	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	13.2	10.5	7.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
165°	4.4	3.5	2.6	1.8	0.9	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: P201414

CATALOG NUMBER: 8LBLEDD-LD4-16-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°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1785.9	1786.7	1787.6	1788.5	1784.1	1779.7	1775.3	1770.9	1766.6	1762.2	1757.8
5°	1785.9	1784.1	1782.4	1780.6	1774.2	1767.9	1761.5	1755.1	1748.8	1742.4	1736.0
7.5°	1780.7	1776.7	1772.8	1768.8	1760.7	1752.6	1744.4	1736.3	1728.2	1720.1	1711.9
10°	1770.1	1763.7	1757.4	1751.0	1741.6	1732.1	1722.7	1713.2	1703.8	1694.3	1684.9
12.5°	1751.6	1742.2	1732.7	1723.3	1713.4	1703.5	1693.7	1683.8	1673.9	1664.0	1654.2
15°	1732.6	1720.3	1708.0	1695.7	1684.9	1674.2	1663.4	1652.6	1641.9	1631.1	1620.3
17.5°	1708.8	1693.9	1678.9	1664.0	1652.8	1641.6	1630.4	1619.2	1608.0	1596.8	1585.6
20°	1678.5	1660.5	1642.5	1624.5	1614.0	1603.4	1592.9	1582.4	1571.8	1561.3	1550.8
22.5°	1644.9	1623.6	1602.3	1581.0	1571.1	1561.2	1551.4	1541.5	1531.6	1521.7	1511.9
25°	1607.4	1582.8	1558.2	1533.6	1525.0	1516.5	1507.9	1499.3	1490.8	1482.2	1473.6
27.5°	1565.9	1537.3	1508.8	1480.2	1473.8	1467.5	1461.1	1454.7	1448.4	1442.0	1435.6
30°	1524.4	1491.9	1459.4	1426.9	1423.2	1419.4	1415.7	1412.0	1408.2	1404.5	1400.8
32.5°	1477.6	1440.9	1404.3	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6
35°	1430.2	1388.3	1346.3	1304.4	1308.6	1312.7	1316.9	1321.1	1325.2	1329.4	1333.6
37.5°	1386.7	1340.1	1293.6	1247.0	1254.9	1262.8	1270.7	1278.6	1286.6	1294.5	1302.4
40°	1337.9	1285.9	1233.8	1181.8	1193.7	1205.5	1217.4	1229.2	1241.1	1252.9	1264.8
42.5°	1286.5	1229.2	1171.9	1114.6	1130.6	1146.7	1162.7	1178.7	1194.8	1210.8	1226.8
45°	1233.2	1170.7	1108.1	1045.5	1065.7	1085.9	1106.1	1126.3	1146.5	1166.7	1186.9
47.5°	1179.9	1112.0	1044.2	976.3	1000.7	1025.1	1049.4	1073.8	1098.2	1122.6	1146.9
50°	1125.2	1052.5	979.8	907.1	935.4	963.8	992.1	1020.4	1048.8	1077.1	1105.4
52.5°	1067.2	989.5	911.7	834.0	866.5	899.0	931.5	964.0	996.5	1029.0	1061.5
55°	1011.2	929.1	846.9	764.8	801.0	837.3	873.5	909.7	946.0	982.2	1018.4
57.5°	952.6	866.3	780.0	693.7	733.9	774.1	814.2	854.4	894.6	934.8	974.9
60°	894.6	803.9	713.2	622.5	666.0	709.5	752.9	796.4	839.9	883.4	926.8
62.5°	836.7	742.2	647.8	553.4	600.2	646.9	693.7	740.5	787.2	834.0	880.8
65°	776.0	678.1	580.1	482.2	532.3	582.3	632.4	682.5	732.5	782.6	832.7
67.5°	714.8	613.5	512.3	411.1	464.2	517.4	570.5	623.6	676.8	729.9	783.0
70°	656.8	553.2	449.5	345.9	401.2	456.6	511.9	567.2	622.6	677.9	733.2
72.5°	599.5	493.8	388.2	282.6	339.7	396.8	453.9	511.0	568.0	625.1	682.2
75°	542.1	435.2	328.2	221.3	279.9	338.6	397.2	455.8	514.5	573.1	631.7
77.5°	486.1	378.8	271.4	164.0	223.1	282.2	341.2	400.3	459.4	518.5	577.5
80°	435.4	327.8	220.2	112.6	172.1	231.6	291.1	350.6	410.2	469.7	529.2
82.5°	387.4	280.6	173.9	67.2	126.3	185.3	244.4	303.5	362.5	421.6	480.7
85°	345.8	241.1	136.3	31.6	89.8	148.0	206.2	264.4	322.5	380.7	438.9
87.5°	311.6	209.1	106.5	4.0	60.9	117.7	174.6	231.5	288.3	345.2	402.1
90°	293.8	195.9	97.9	0.0	54.0	108.0	162.1	216.1	270.1	324.1	378.2
92.5°	283.9	189.3	94.6	0.0	50.9	101.9	152.8	203.8	254.7	305.7	356.6
95°	272.7	181.8	90.9	0.0	48.3	96.6	144.9	193.2	241.6	289.9	338.2
97.5°	261.5	174.4	87.2	0.0	45.5	90.9	136.4	181.8	227.3	272.7	318.2
100°	249.7	166.4	83.2	0.0	42.8	85.6	128.5	171.3	214.1	256.9	299.8
102.5°	237.8	158.5	79.3	0.0	40.2	80.4	120.6	160.8	200.9	241.1	281.3
105°	224.6	149.8	74.9	0.0	37.3	74.7	112.0	149.3	186.7	224.0	261.3
107.5°	211.5	141.0	70.5	0.0	34.5	69.0	103.4	137.9	172.4	206.9	241.3
110°	198.3	132.2	66.1	0.0	31.8	63.7	95.5	127.4	159.2	191.1	222.9



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLED-LD4-16-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°	184.5	123.0	61.5	0.0	29.0	58.0	87.0	116.0	144.9	173.9	202.9
115°	170.6	113.8	56.9	0.0	26.1	52.3	78.4	104.5	130.7	156.8	182.9
117.5°	154.2	102.8	51.4	0.0	23.3	46.6	69.8	93.1	116.4	139.7	162.9
120°	140.3	93.6	46.8	0.0	20.4	40.8	61.3	81.7	102.1	122.5	143.0
122.5°	126.5	84.3	42.2	0.0	18.0	36.0	54.0	72.0	90.1	108.1	126.1
125°	112.6	75.1	37.5	0.0	15.2	30.3	45.5	60.6	75.8	90.9	106.1
127.5°	99.5	66.3	33.2	0.0	12.3	24.6	36.9	49.2	61.5	73.8	86.1
130°	86.3	57.5	28.8	0.0	9.7	19.3	29.0	38.7	48.3	58.0	67.7
132.5°	73.8	49.2	24.6	0.0	7.2	14.5	21.7	29.0	36.2	43.5	50.7
135°	61.3	40.8	20.4	0.0	5.1	10.1	15.2	20.2	25.3	30.3	35.4
137.5°	49.4	32.9	16.5	0.0	3.3	6.6	9.9	13.2	16.4	19.7	23.0
140°	37.5	25.0	12.5	0.0	1.8	3.5	5.3	7.0	8.8	10.5	12.3
142.5°	25.0	16.7	8.3	0.0	0.9	1.8	2.6	3.5	4.4	5.3	6.1
145°	17.1	11.4	5.7	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6
147.5°	11.2	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	7.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	4.6	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.0	1.3	0.7	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: P201414

CATALOG NUMBER: 8LBLELD4-16-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°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1753.4	1749.0	1747.7	1746.4	1745.1	1743.8	1742.4	1741.1	1739.8	1738.5	1737.2
5°	1729.7	1723.3	1720.9	1718.5	1716.1	1713.7	1711.2	1708.8	1706.4	1704.0	1701.6
7.5°	1703.8	1695.7	1692.8	1690.0	1687.1	1684.3	1681.4	1678.6	1675.7	1672.9	1670.0
10°	1675.4	1666.0	1663.4	1660.7	1658.1	1655.5	1652.8	1650.2	1647.6	1644.9	1642.3
12.5°	1644.3	1634.4	1632.9	1631.3	1629.8	1628.3	1626.7	1625.2	1623.7	1622.1	1620.6
15°	1609.6	1598.8	1599.5	1600.1	1600.8	1601.5	1602.1	1602.8	1603.5	1604.1	1604.8
17.5°	1574.4	1563.2	1567.8	1572.4	1577.1	1581.7	1586.3	1590.9	1595.6	1600.2	1604.8
20°	1540.2	1529.7	1539.6	1549.5	1559.3	1569.2	1579.1	1589.0	1598.8	1608.7	1618.6
22.5°	1502.0	1492.1	1507.7	1523.3	1538.9	1554.5	1570.0	1585.6	1601.2	1616.8	1632.4
25°	1465.1	1456.5	1477.6	1498.7	1519.8	1540.9	1561.9	1583.0	1604.1	1625.2	1646.3
27.5°	1429.3	1422.9	1448.6	1474.3	1500.0	1525.7	1551.4	1577.1	1602.8	1628.5	1654.2
30°	1397.0	1393.3	1423.2	1453.0	1482.9	1512.8	1542.6	1572.5	1602.4	1632.2	1662.1
32.5°	1367.6	1367.6	1401.0	1434.4	1467.7	1501.1	1534.5	1567.9	1601.2	1634.6	1668.0
35°	1337.7	1341.9	1378.4	1414.8	1451.3	1487.7	1524.2	1560.6	1597.1	1633.5	1670.0
37.5°	1310.3	1318.2	1357.5	1396.8	1436.1	1475.4	1514.7	1554.0	1593.3	1632.6	1671.9
40°	1276.6	1288.5	1331.3	1374.1	1417.0	1459.8	1502.6	1545.4	1588.3	1631.1	1673.9
42.5°	1242.9	1258.9	1304.8	1350.7	1396.6	1442.5	1488.3	1534.2	1580.1	1626.0	1671.9
45°	1207.1	1227.3	1276.5	1325.7	1374.9	1424.1	1473.2	1522.4	1571.6	1620.8	1670.0
47.5°	1171.3	1195.7	1248.0	1300.2	1352.5	1404.7	1457.0	1509.2	1561.5	1613.7	1666.0
50°	1133.8	1162.1	1217.7	1273.2	1328.8	1384.3	1439.9	1495.4	1551.0	1606.5	1662.1
52.5°	1094.0	1126.5	1184.9	1243.3	1301.7	1360.1	1418.6	1477.0	1535.4	1593.8	1652.2
55°	1054.7	1090.9	1152.4	1213.9	1275.4	1336.9	1398.3	1459.8	1521.3	1582.8	1644.3
57.5°	1015.1	1055.3	1120.1	1184.9	1249.6	1314.4	1379.2	1444.0	1508.7	1573.5	1638.3
60°	970.3	1013.8	1082.1	1150.4	1218.7	1287.0	1355.3	1423.6	1491.9	1560.2	1628.5
62.5°	927.5	974.3	1045.9	1117.5	1189.1	1260.7	1332.2	1403.8	1475.4	1547.0	1618.6
65°	882.7	932.8	1007.5	1082.1	1156.8	1231.5	1306.1	1380.8	1455.5	1530.1	1604.8
67.5°	836.2	889.3	966.8	1044.3	1121.9	1199.4	1276.9	1354.4	1432.0	1509.5	1587.0
70°	788.6	843.9	923.6	1003.3	1083.0	1162.7	1242.5	1322.2	1401.9	1481.6	1561.3
72.5°	739.3	796.4	877.0	957.6	1038.2	1118.8	1199.3	1279.9	1360.5	1441.1	1521.7
75°	690.4	749.0	829.4	909.7	990.1	1070.5	1150.8	1231.2	1311.6	1391.9	1472.3
77.5°	636.6	695.7	775.4	855.1	934.8	1014.5	1094.3	1174.0	1253.7	1333.4	1413.1
80°	588.7	648.2	725.9	803.7	881.4	959.1	1036.9	1114.6	1192.3	1270.1	1347.8
82.5°	539.7	598.8	674.3	749.9	825.4	901.0	976.5	1052.1	1127.6	1203.2	1278.7
85°	497.1	555.3	628.4	701.5	774.7	847.8	920.9	994.0	1067.2	1140.3	1213.4
87.5°	458.9	515.8	586.9	658.1	729.2	800.4	871.5	942.7	1013.8	1085.0	1156.1
90°	432.2	486.2	554.9	623.6	692.4	761.1	829.8	898.5	967.3	1036.0	1104.7
92.5°	407.6	458.5	525.9	593.3	660.7	728.1	795.6	863.0	930.4	997.8	1065.2
95°	386.5	434.8	500.5	566.1	631.8	697.4	763.1	828.7	894.4	960.0	1025.7
97.5°	363.6	409.1	473.4	537.8	602.1	666.4	730.8	795.1	859.4	923.8	988.1
100°	342.6	385.4	448.2	511.0	573.8	636.6	699.4	762.2	825.0	887.8	950.6
102.5°	321.5	361.7	423.0	484.2	545.5	606.7	668.0	729.2	790.5	851.7	913.0
105°	298.7	336.0	396.2	456.3	516.5	576.7	636.8	697.0	757.2	817.3	877.5
107.5°	275.8	310.3	368.7	427.1	485.5	543.9	602.4	660.8	719.2	777.6	836.0
110°	254.8	286.6	342.8	399.0	455.2	511.4	567.7	623.9	680.1	736.3	792.5



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLED-LD4-16-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°	231.9	260.9	315.4	369.8	424.3	478.7	533.2	587.6	642.1	696.5	751.0
115°	209.1	235.2	287.7	340.2	392.6	445.1	497.6	550.1	602.5	655.0	707.5
117.5°	186.2	209.5	260.0	310.5	361.0	411.5	462.0	512.5	563.0	613.5	664.0
120°	163.4	183.8	232.1	280.4	328.7	377.0	425.4	473.7	522.0	570.3	618.6
122.5°	144.1	162.1	207.8	253.4	299.1	344.8	390.4	436.1	481.8	527.4	573.1
125°	121.2	136.4	179.7	222.9	266.2	309.4	352.7	395.9	439.2	482.4	525.7
127.5°	98.4	110.7	150.4	190.2	229.9	269.7	309.4	349.2	388.9	428.7	468.4
130°	77.3	87.0	123.2	159.4	195.7	231.9	268.1	304.3	340.6	376.8	413.0
132.5°	58.0	65.2	97.5	129.8	162.0	194.3	226.6	258.9	291.1	323.4	355.7
135°	40.4	45.5	74.3	103.0	131.8	160.5	189.3	218.0	246.8	275.5	304.3
137.5°	26.3	29.6	54.6	79.7	104.7	129.7	154.8	179.8	204.8	229.9	254.9
140°	14.0	15.8	37.5	59.3	81.0	102.8	124.5	146.3	168.0	189.8	211.5
142.5°	7.0	7.9	25.9	43.9	61.9	79.9	98.0	116.0	134.0	152.0	170.0
145°	1.8	2.0	16.5	31.0	45.5	60.0	74.4	88.9	103.4	117.9	132.4
147.5°	0.0	0.0	11.0	22.0	32.9	43.9	54.9	65.9	76.8	87.8	98.8
150°	0.0	0.0	7.7	15.4	23.1	30.8	38.4	46.1	53.8	61.5	69.2
152.5°	0.0	0.0	4.6	9.2	13.8	18.4	23.1	27.7	32.3	36.9	41.5
155°	0.0	0.0	2.4	4.8	7.2	9.6	12.1	14.5	16.9	19.3	21.7
157.5°	0.0	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.6	5.2	5.9
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLEDD4-16-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°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1735.2	1733.2	1731.3	1729.3	1727.3	1725.3	1723.4	1721.4	1719.4	1717.4	1715.4
5°	1699.4	1697.2	1695.0	1692.8	1690.6	1688.4	1686.2	1684.0	1681.8	1680.5	1679.2
7.5°	1668.0	1666.0	1664.1	1662.1	1660.1	1658.1	1656.2	1654.2	1652.2	1651.5	1650.9
10°	1642.1	1641.9	1641.6	1641.4	1641.2	1641.0	1640.7	1640.5	1640.3	1639.9	1639.4
12.5°	1622.6	1624.5	1626.5	1628.5	1630.4	1632.4	1634.4	1636.3	1638.3	1639.6	1640.9
15°	1611.2	1617.5	1623.9	1630.3	1636.6	1643.0	1649.4	1655.7	1662.1	1665.6	1669.1
17.5°	1615.3	1625.9	1636.4	1646.9	1657.5	1668.0	1678.5	1689.1	1699.6	1703.8	1708.0
20°	1631.3	1644.1	1656.8	1669.5	1682.3	1695.0	1707.7	1720.5	1733.2	1738.3	1743.3
22.5°	1647.3	1662.3	1677.2	1692.1	1707.1	1722.0	1736.9	1751.9	1766.8	1772.3	1777.8
25°	1663.0	1679.7	1696.4	1713.1	1729.7	1746.4	1763.1	1779.8	1796.5	1802.9	1809.2
27.5°	1673.3	1692.4	1711.5	1730.6	1749.7	1768.8	1787.9	1807.0	1826.1	1832.9	1839.7
30°	1683.2	1704.3	1725.3	1746.4	1767.5	1788.6	1809.6	1830.7	1851.8	1859.9	1868.0
32.5°	1691.3	1714.6	1737.8	1761.1	1784.4	1807.7	1830.9	1854.2	1877.5	1886.7	1895.9
35°	1695.9	1721.8	1747.7	1773.6	1799.6	1825.5	1851.4	1877.3	1903.2	1913.7	1924.3
37.5°	1700.5	1729.0	1757.6	1786.1	1814.7	1843.2	1871.8	1900.3	1928.9	1941.0	1953.1
40°	1705.1	1736.3	1767.5	1798.7	1829.8	1861.0	1892.2	1923.4	1954.6	1968.0	1981.4
42.5°	1705.9	1740.0	1774.0	1808.1	1842.1	1876.2	1910.2	1944.3	1978.3	1993.2	2008.2
45°	1707.3	1744.6	1782.0	1819.3	1856.6	1893.9	1931.3	1968.6	2005.9	2022.2	2038.4
47.5°	1707.1	1748.1	1789.2	1830.3	1871.3	1912.4	1953.5	1994.5	2035.6	2053.4	2071.2
50°	1706.7	1751.3	1795.8	1840.4	1885.0	1929.6	1974.1	2018.7	2063.3	2083.1	2102.8
52.5°	1700.7	1749.2	1797.8	1846.3	1894.8	1943.3	1991.9	2040.4	2088.9	2110.4	2131.9
55°	1697.0	1749.7	1802.4	1855.1	1907.8	1960.5	2013.2	2065.9	2118.6	2141.2	2163.8
57.5°	1694.3	1750.3	1806.3	1862.3	1918.3	1974.3	2030.3	2086.3	2142.3	2166.5	2190.6
60°	1687.8	1747.1	1806.4	1865.7	1924.9	1984.2	2043.5	2102.8	2162.1	2186.9	2211.7
62.5°	1680.5	1742.4	1804.4	1866.3	1928.2	1990.1	2052.1	2114.0	2175.9	2200.9	2226.0
65°	1668.9	1733.0	1797.1	1861.2	1925.4	1989.5	2053.6	2117.7	2181.8	2207.1	2232.3
67.5°	1652.2	1717.4	1782.6	1847.8	1913.1	1978.3	2043.5	2108.7	2173.9	2199.2	2224.4
70°	1627.2	1693.1	1758.9	1824.8	1890.7	1956.6	2022.4	2088.3	2154.2	2179.0	2203.8
72.5°	1587.6	1653.5	1719.3	1785.2	1851.1	1917.0	1982.8	2048.7	2114.6	2138.5	2162.5
75°	1537.1	1601.9	1666.6	1731.4	1796.2	1861.0	1925.7	1990.5	2055.3	2078.4	2101.4
77.5°	1475.9	1538.7	1601.5	1664.3	1727.1	1789.9	1852.7	1915.5	1978.3	2000.9	2023.5
80°	1408.6	1469.5	1530.3	1591.1	1652.0	1712.8	1773.6	1834.5	1895.3	1917.3	1939.2
82.5°	1337.3	1395.9	1454.6	1513.2	1571.8	1630.4	1689.1	1747.7	1806.3	1827.8	1849.3
85°	1270.9	1328.5	1386.0	1443.5	1501.1	1558.6	1616.1	1673.7	1731.2	1752.1	1772.9
87.5°	1210.3	1264.6	1318.8	1373.1	1427.3	1481.6	1535.8	1590.1	1644.3	1664.7	1685.1
90°	1157.8	1211.0	1264.1	1317.3	1370.4	1423.6	1476.7	1529.9	1583.0	1602.3	1621.6
92.5°	1116.6	1168.0	1219.4	1270.8	1322.1	1373.5	1424.9	1476.3	1527.7	1546.4	1565.0
95°	1075.1	1124.5	1173.9	1223.3	1272.8	1322.2	1371.6	1421.0	1470.4	1488.2	1506.0
97.5°	1036.0	1083.9	1131.7	1179.6	1227.5	1275.4	1323.2	1371.1	1419.0	1435.9	1452.8
100°	997.4	1044.1	1090.9	1137.7	1184.4	1231.2	1278.0	1324.7	1371.5	1388.0	1404.5
102.5°	958.7	1004.4	1050.0	1095.7	1141.4	1187.1	1232.7	1278.4	1324.1	1340.6	1357.0
105°	921.6	965.8	1009.9	1054.0	1098.2	1142.3	1186.4	1230.6	1274.7	1290.3	1305.9
107.5°	879.0	922.1	965.1	1008.1	1051.2	1094.2	1137.2	1180.3	1223.3	1238.5	1253.6
110°	834.4	876.4	918.3	960.3	1002.2	1044.2	1086.1	1128.1	1170.0	1185.4	1200.7



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLED-LD4-16-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°	791.4	831.8	872.2	912.6	953.0	993.4	1033.8	1074.2	1114.6	1129.1	1143.6
115°	746.6	785.7	824.8	863.9	902.9	942.0	981.1	1020.2	1059.3	1073.1	1087.0
117.5°	701.6	739.1	776.7	814.2	851.8	889.3	926.9	964.4	1002.0	1015.6	1029.2
120°	654.8	691.1	727.3	763.5	799.8	836.0	872.2	908.5	944.7	957.7	970.6
122.5°	607.8	642.5	677.2	711.9	746.6	781.3	816.0	850.7	885.4	898.1	910.9
125°	559.1	592.5	625.8	659.2	692.6	726.0	759.3	792.7	826.1	838.4	850.7
127.5°	501.3	534.3	567.2	600.1	633.1	666.0	698.9	731.9	764.8	776.7	788.5
130°	445.1	477.1	509.2	541.3	573.3	605.4	637.5	669.5	701.6	713.0	724.4
132.5°	386.9	418.1	449.3	480.5	511.6	542.8	574.0	605.2	636.4	647.4	658.4
135°	334.4	364.5	394.6	424.7	454.7	484.8	514.9	545.0	575.1	585.2	595.3
137.5°	283.0	311.1	339.2	367.3	395.5	423.6	451.7	479.8	507.9	518.0	528.1
140°	236.3	261.1	285.9	310.7	335.6	360.4	385.2	410.0	434.8	446.2	457.6
142.5°	192.0	213.9	235.9	257.8	279.8	301.7	323.7	345.6	367.6	378.8	390.0
145°	151.3	170.2	189.1	208.0	226.8	245.7	264.6	283.5	302.4	313.8	325.2
147.5°	114.8	130.9	146.9	162.9	179.0	195.0	211.0	227.1	243.1	254.5	265.9
150°	82.6	96.0	109.4	122.8	136.1	149.5	162.9	176.3	189.7	200.2	210.8
152.5°	52.5	63.5	74.4	85.4	96.4	107.4	118.3	129.3	140.3	150.0	159.6
155°	29.8	38.0	46.1	54.2	62.4	70.5	78.6	86.8	94.9	103.5	112.0
157.5°	11.4	16.9	22.4	27.9	33.3	38.8	44.3	49.8	55.3	62.6	69.8
160°	2.9	5.7	8.6	11.4	14.3	17.1	20.0	22.8	25.7	31.0	36.2
162.5°	0.4	0.9	1.3	1.8	2.2	2.7	3.1	3.6	4.0	7.3	10.6
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLEDD4-16-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°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1713.5	1711.5	1709.5	1707.5	1705.6	1703.6	1701.6	1703.4	1705.1	1706.9	1708.6
5°	1677.9	1676.6	1675.2	1673.9	1672.6	1671.3	1670.0	1671.1	1672.2	1673.3	1674.4
7.5°	1650.2	1649.6	1648.9	1648.3	1647.6	1647.0	1646.3	1647.0	1647.6	1648.3	1648.9
10°	1639.0	1638.6	1638.1	1637.7	1637.3	1636.8	1636.4	1636.2	1636.0	1635.7	1635.5
12.5°	1642.3	1643.6	1644.9	1646.2	1647.6	1648.9	1650.2	1648.0	1645.8	1643.6	1641.4
15°	1672.6	1676.1	1679.7	1683.2	1686.7	1690.2	1693.7	1690.0	1686.2	1682.5	1678.8
17.5°	1712.1	1716.3	1720.5	1724.7	1728.8	1733.0	1737.2	1733.2	1729.3	1725.3	1721.4
20°	1748.4	1753.4	1758.5	1763.5	1768.6	1773.6	1778.7	1773.2	1767.7	1762.2	1756.7
22.5°	1783.3	1788.8	1794.2	1799.7	1805.2	1810.7	1816.2	1809.8	1803.5	1797.1	1790.7
25°	1815.6	1822.0	1828.3	1834.7	1841.1	1847.4	1853.8	1846.8	1839.7	1832.7	1825.7
27.5°	1846.5	1853.3	1860.2	1867.0	1873.8	1880.6	1887.4	1879.9	1872.5	1865.0	1857.5
30°	1876.2	1884.3	1892.4	1900.5	1908.7	1916.8	1924.9	1916.3	1907.8	1899.2	1890.6
32.5°	1905.2	1914.4	1923.6	1932.8	1942.1	1951.3	1960.5	1950.8	1941.2	1931.5	1921.8
35°	1934.8	1945.3	1955.9	1966.4	1976.9	1987.5	1998.0	1987.2	1976.5	1965.7	1955.0
37.5°	1965.1	1977.2	1989.3	2001.4	2013.4	2025.5	2037.6	2025.7	2013.9	2002.0	1990.1
40°	1994.8	2008.2	2021.5	2034.9	2048.3	2061.7	2075.1	2062.1	2049.2	2036.2	2023.3
42.5°	2023.1	2038.0	2053.0	2067.9	2082.8	2097.8	2112.7	2098.6	2084.6	2070.5	2056.5
45°	2054.7	2070.9	2087.2	2103.4	2119.7	2135.9	2152.2	2137.0	2121.9	2106.7	2091.6
47.5°	2089.0	2106.8	2124.5	2142.3	2160.1	2177.9	2195.7	2179.2	2162.7	2146.3	2129.8
50°	2122.6	2142.3	2162.1	2181.8	2201.6	2221.3	2241.1	2223.1	2205.1	2187.1	2169.1
52.5°	2153.5	2175.0	2196.5	2218.0	2239.6	2261.1	2282.6	2263.3	2244.0	2224.6	2205.3
55°	2186.4	2209.0	2231.7	2254.3	2276.9	2299.5	2322.1	2301.7	2281.3	2260.9	2240.5
57.5°	2214.8	2238.9	2263.1	2287.2	2311.4	2335.5	2359.7	2338.2	2316.7	2295.1	2273.6
60°	2236.5	2261.3	2286.2	2311.0	2335.8	2360.6	2385.4	2363.7	2341.9	2320.2	2298.4
62.5°	2251.0	2276.0	2301.1	2326.1	2351.1	2376.2	2401.2	2379.2	2357.3	2335.3	2313.4
65°	2257.6	2282.8	2308.1	2333.3	2358.6	2383.8	2409.1	2386.7	2364.3	2341.9	2319.5
67.5°	2249.7	2274.9	2300.2	2325.4	2350.7	2375.9	2401.2	2379.2	2357.3	2335.3	2313.4
70°	2228.6	2253.4	2278.3	2303.1	2327.9	2352.7	2377.5	2355.3	2333.1	2311.0	2288.8
72.5°	2186.4	2210.4	2234.3	2258.3	2282.2	2306.2	2330.1	2308.6	2287.1	2265.5	2244.0
75°	2124.5	2147.6	2170.6	2193.7	2216.8	2239.8	2262.9	2242.0	2221.2	2200.3	2179.4
77.5°	2046.1	2068.7	2091.4	2114.0	2136.6	2159.2	2181.8	2161.2	2140.5	2119.9	2099.3
80°	1961.2	1983.1	2005.1	2027.0	2049.0	2070.9	2092.9	2072.7	2052.5	2032.3	2012.1
82.5°	1870.9	1892.4	1913.9	1935.4	1957.0	1978.5	2000.0	1981.3	1962.7	1944.0	1925.3
85°	1793.8	1814.7	1835.5	1856.4	1877.3	1898.1	1919.0	1899.7	1880.4	1861.0	1841.7
87.5°	1705.6	1726.0	1746.4	1766.8	1787.3	1807.7	1828.1	1809.7	1791.2	1772.8	1754.3
90°	1641.0	1660.3	1679.6	1698.9	1718.3	1737.6	1756.9	1738.9	1720.9	1702.9	1684.9
92.5°	1583.7	1602.4	1621.0	1639.7	1658.4	1677.0	1695.7	1678.1	1660.6	1643.0	1625.4
95°	1523.7	1541.5	1559.3	1577.1	1594.8	1612.6	1630.4	1613.9	1597.5	1581.0	1564.5
97.5°	1469.7	1486.6	1503.6	1520.5	1537.4	1554.3	1571.2	1555.6	1540.0	1524.4	1508.8
100°	1420.9	1437.4	1453.9	1470.4	1486.8	1503.3	1519.8	1503.8	1487.7	1471.7	1455.7
102.5°	1373.5	1390.0	1406.4	1422.9	1439.4	1455.8	1472.3	1456.1	1439.8	1423.6	1407.3
105°	1321.5	1337.1	1352.6	1368.2	1383.8	1399.4	1415.0	1399.6	1384.3	1368.9	1353.5
107.5°	1268.8	1283.9	1299.1	1314.2	1329.4	1344.5	1359.7	1344.8	1329.8	1314.9	1300.0
110°	1216.1	1231.5	1246.8	1262.2	1277.6	1292.9	1308.3	1293.1	1278.0	1262.8	1247.7



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLED-LD4-16-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°	1158.1	1172.6	1187.1	1201.6	1216.1	1230.6	1245.1	1230.8	1216.5	1202.3	1188.0
115°	1100.8	1114.6	1128.5	1142.3	1156.1	1170.0	1183.8	1170.2	1156.6	1143.0	1129.4
117.5°	1042.8	1056.4	1070.1	1083.7	1097.3	1110.9	1124.5	1111.3	1098.1	1085.0	1071.8
120°	983.6	996.5	1009.5	1022.4	1035.4	1048.3	1061.3	1048.8	1036.3	1023.7	1011.2
122.5°	923.6	936.3	949.1	961.8	974.5	987.3	1000.0	988.1	976.3	964.4	952.6
125°	863.0	875.3	887.6	899.9	912.2	924.5	936.8	925.4	914.0	902.5	891.1
127.5°	800.4	812.2	824.1	835.9	847.8	859.6	871.5	860.7	850.0	839.2	828.5
130°	735.9	747.3	758.7	770.1	781.6	793.0	804.4	794.1	783.8	773.4	763.1
132.5°	669.3	680.3	691.3	702.3	713.2	724.2	735.2	725.5	715.9	706.2	696.5
135°	605.4	615.5	625.6	635.7	645.8	655.9	666.0	657.2	648.4	639.7	630.9
137.5°	538.2	548.3	558.4	568.5	578.6	588.7	598.8	590.7	582.6	574.4	566.3
140°	469.1	480.5	491.9	503.3	514.8	526.2	537.6	529.5	521.3	513.2	505.1
142.5°	401.2	412.4	423.6	434.8	446.0	457.2	468.4	461.6	454.8	448.0	441.2
145°	336.6	348.0	359.5	370.9	382.3	393.7	405.1	399.0	392.8	386.7	380.5
147.5°	277.4	288.8	300.2	311.6	323.1	334.5	345.9	340.2	334.5	328.8	323.1
150°	221.3	231.9	242.4	253.0	263.5	274.1	284.6	279.8	274.9	270.1	265.3
152.5°	169.3	179.0	188.6	198.3	208.0	217.6	227.3	223.1	218.9	214.8	210.6
155°	120.6	129.1	137.7	146.2	154.8	163.3	171.9	168.8	165.8	162.7	159.6
157.5°	77.1	84.3	91.6	98.8	106.1	113.3	120.6	118.2	115.8	113.3	110.9
160°	41.5	46.8	52.0	57.3	62.6	67.8	73.1	71.3	69.6	67.8	66.1
162.5°	13.9	17.2	20.4	23.7	27.0	30.3	33.6	32.7	31.8	31.0	30.1
165°	2.6	3.5	4.4	5.3	6.1	7.0	7.9	7.9	7.9	7.9	7.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLEDD4-16-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°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1710.4	1712.1	1713.9	1715.6	1717.4	1720.5	1723.6	1726.6	1729.7	1732.8	1735.9
5°	1675.5	1676.6	1677.7	1678.8	1679.9	1683.4	1686.9	1690.4	1693.9	1697.5	1701.0
7.5°	1649.6	1650.2	1650.9	1651.5	1652.2	1655.3	1658.4	1661.4	1664.5	1667.6	1670.7
10°	1635.3	1635.1	1634.8	1634.6	1634.4	1636.6	1638.8	1641.0	1643.2	1645.4	1647.6
12.5°	1639.2	1637.0	1634.8	1632.6	1630.4	1630.8	1631.3	1631.7	1632.2	1632.6	1633.1
15°	1675.0	1671.3	1667.6	1663.8	1660.1	1655.7	1651.3	1646.9	1642.5	1638.2	1633.8
17.5°	1717.4	1713.5	1709.5	1705.6	1701.6	1692.4	1683.2	1673.9	1664.7	1655.5	1646.3
20°	1751.3	1745.8	1740.3	1734.8	1729.3	1718.5	1707.8	1697.0	1686.2	1675.5	1664.7
22.5°	1784.4	1778.0	1771.6	1765.3	1758.9	1746.2	1733.4	1720.7	1708.0	1695.2	1682.5
25°	1818.6	1811.6	1804.6	1797.5	1790.5	1775.6	1760.6	1745.7	1730.8	1715.8	1700.9
27.5°	1850.1	1842.6	1835.1	1827.7	1820.2	1803.1	1785.9	1768.8	1751.7	1734.5	1717.4
30°	1882.1	1873.5	1864.9	1856.4	1847.8	1828.5	1809.2	1789.8	1770.5	1751.2	1731.9
32.5°	1912.2	1902.5	1892.8	1883.2	1873.5	1851.5	1829.6	1807.6	1785.7	1763.7	1741.8
35°	1944.2	1933.5	1922.7	1912.0	1901.2	1876.6	1852.0	1827.4	1802.8	1778.3	1753.7
37.5°	1978.3	1966.4	1954.5	1942.7	1930.8	1903.6	1876.4	1849.1	1821.9	1794.7	1767.5
40°	2010.3	1997.4	1984.4	1971.5	1958.5	1928.6	1898.8	1868.9	1839.0	1809.2	1779.3
42.5°	2042.4	2028.4	2014.3	2000.3	1986.2	1953.3	1920.3	1887.4	1854.4	1821.5	1788.5
45°	2076.4	2061.3	2046.1	2031.0	2015.8	1979.6	1943.3	1907.1	1870.9	1834.6	1798.4
47.5°	2113.3	2096.8	2080.4	2063.9	2047.4	2007.4	1967.5	1927.5	1887.6	1847.6	1807.7
50°	2151.1	2133.1	2115.1	2097.1	2079.1	2035.2	1991.3	1947.3	1903.4	1859.5	1815.6
52.5°	2186.0	2166.7	2147.3	2128.0	2108.7	2060.8	2013.0	1965.1	1917.2	1869.4	1821.5
55°	2220.0	2199.6	2179.2	2158.8	2138.4	2086.6	2034.7	1982.9	1931.1	1879.2	1827.4
57.5°	2252.1	2230.6	2209.0	2187.5	2166.0	2110.7	2055.3	2000.0	1944.7	1889.3	1834.0
60°	2276.7	2254.9	2233.2	2211.4	2189.7	2130.9	2072.0	2013.2	1954.3	1895.5	1836.6
62.5°	2291.4	2269.5	2247.5	2225.6	2203.6	2142.1	2080.6	2019.1	1957.6	1896.2	1834.7
65°	2297.1	2274.7	2252.3	2229.9	2207.5	2144.0	2080.6	2017.1	1953.7	1890.2	1826.8
67.5°	2291.4	2269.5	2247.5	2225.6	2203.6	2138.6	2073.6	2008.6	1943.6	1878.6	1813.6
70°	2266.6	2244.4	2222.3	2200.1	2177.9	2112.7	2047.5	1982.2	1917.0	1851.8	1786.6
72.5°	2222.5	2201.0	2179.4	2157.9	2136.4	2071.6	2006.8	1942.1	1877.3	1812.5	1747.7
75°	2158.6	2137.7	2116.8	2096.0	2075.1	2011.4	1947.7	1884.1	1820.4	1756.7	1693.0
77.5°	2078.6	2058.0	2037.4	2016.7	1996.1	1934.2	1872.2	1810.3	1748.4	1686.4	1624.5
80°	1991.9	1971.7	1951.5	1931.3	1911.1	1851.1	1791.2	1731.2	1671.3	1611.3	1551.4
82.5°	1906.7	1888.0	1869.3	1850.7	1832.0	1772.9	1713.9	1654.8	1595.7	1536.7	1477.6
85°	1822.4	1803.1	1783.7	1764.4	1745.1	1688.2	1631.3	1574.5	1517.6	1460.7	1403.8
87.5°	1735.9	1717.4	1699.0	1680.5	1662.1	1607.6	1553.2	1498.7	1444.2	1389.8	1335.3
90°	1666.9	1648.9	1630.9	1612.9	1594.9	1542.9	1490.8	1438.8	1386.7	1334.7	1282.6
92.5°	1607.9	1590.3	1572.7	1555.2	1537.6	1487.5	1437.5	1387.4	1337.3	1287.3	1237.2
95°	1548.1	1531.6	1515.1	1498.7	1482.2	1433.9	1385.6	1337.3	1289.0	1240.6	1192.3
97.5°	1493.2	1477.6	1462.0	1446.4	1430.8	1384.0	1337.3	1290.5	1243.7	1197.0	1150.2
100°	1439.6	1423.6	1407.6	1391.5	1375.5	1330.5	1285.5	1240.5	1195.5	1150.4	1105.4
102.5°	1391.1	1374.8	1358.6	1342.3	1326.1	1282.2	1238.3	1194.3	1150.4	1106.5	1062.6
105°	1338.2	1322.8	1307.4	1292.1	1276.7	1233.7	1190.6	1147.6	1104.5	1061.5	1018.4
107.5°	1285.0	1270.1	1255.2	1240.2	1225.3	1183.8	1142.3	1100.8	1059.3	1017.8	976.3
110°	1232.5	1217.4	1202.2	1187.1	1171.9	1131.9	1092.0	1052.0	1012.1	972.1	932.2



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLED-LD4-16-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°	1173.7	1159.4	1145.2	1130.9	1116.6	1078.2	1039.8	1001.3	962.9	924.5	886.1
115°	1115.7	1102.1	1088.5	1074.9	1061.3	1024.4	987.5	950.6	913.7	876.9	840.0
117.5°	1058.6	1045.4	1032.3	1019.1	1005.9	970.3	934.8	899.2	863.6	828.1	792.5
120°	998.7	986.2	973.6	961.1	948.6	914.3	880.1	845.8	811.6	777.3	743.1
122.5°	940.7	928.9	917.0	905.2	893.3	859.9	826.5	793.2	759.8	726.4	693.0
125°	879.7	868.3	856.8	845.4	834.0	801.7	769.4	737.2	704.9	672.6	640.3
127.5°	817.7	807.0	796.2	785.5	774.7	744.0	713.2	682.5	651.7	621.0	590.2
130°	752.8	742.5	732.1	721.8	711.5	682.3	653.1	623.9	594.7	565.4	536.2
132.5°	686.9	677.2	667.5	657.9	648.2	621.0	593.8	566.5	539.3	512.1	484.9
135°	622.1	613.3	604.6	595.8	587.0	561.7	536.5	511.2	486.0	460.7	435.5
137.5°	558.2	550.1	541.9	533.8	525.7	502.4	479.1	455.9	432.6	409.3	386.0
140°	496.9	488.8	480.7	472.5	464.4	443.5	422.7	401.8	381.0	360.1	339.3
142.5°	434.3	427.5	420.7	413.9	407.1	388.0	368.9	349.8	330.7	311.6	292.5
145°	374.4	368.2	362.1	355.9	349.8	332.7	315.6	298.4	281.3	264.2	247.1
147.5°	317.3	311.6	305.9	300.2	294.5	279.1	263.7	248.4	233.0	217.6	202.2
150°	260.4	255.6	250.8	245.9	241.1	227.7	214.3	200.9	187.5	174.2	160.8
152.5°	206.4	202.2	198.1	193.9	189.7	178.1	166.4	154.8	143.2	131.5	119.9
155°	156.6	153.5	150.4	147.4	144.3	134.4	124.5	114.6	104.7	94.9	85.0
157.5°	108.5	106.1	103.6	101.2	98.8	91.1	83.4	75.7	68.0	60.4	52.7
160°	64.3	62.6	60.8	59.1	57.3	52.7	48.1	43.5	38.9	34.2	29.6
162.5°	29.2	28.3	27.5	26.6	25.7	23.5	21.3	19.1	16.9	14.7	12.5
165°	7.9	7.9	7.9	7.9	7.9	7.2	6.6	5.9	5.3	4.6	4.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLELD4-16-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°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1738.9	1742.0	1745.1	1746.0	1746.9	1747.7	1748.6	1749.5	1750.4	1751.2	1752.1
5°	1704.5	1708.0	1711.5	1713.5	1715.5	1717.4	1719.4	1721.4	1723.4	1725.3	1727.3
7.5°	1673.7	1676.8	1679.9	1682.1	1684.3	1686.5	1688.7	1690.8	1693.0	1695.2	1697.4
10°	1649.8	1652.0	1654.2	1655.7	1657.3	1658.8	1660.3	1661.9	1663.4	1664.9	1666.5
12.5°	1633.5	1634.0	1634.4	1634.6	1634.8	1635.1	1635.3	1635.5	1635.7	1636.0	1636.2
15°	1629.4	1625.0	1620.6	1618.4	1616.2	1614.0	1611.8	1609.6	1607.4	1605.2	1603.0
17.5°	1637.0	1627.8	1618.6	1612.9	1607.2	1601.5	1595.8	1590.0	1584.3	1578.6	1572.9
20°	1653.9	1643.2	1632.4	1621.2	1610.0	1598.8	1587.6	1576.4	1565.2	1554.0	1542.8
22.5°	1669.8	1657.0	1644.3	1627.8	1611.4	1594.9	1578.4	1562.0	1545.5	1529.0	1512.6
25°	1686.0	1671.0	1656.1	1634.1	1612.2	1590.2	1568.3	1546.3	1524.4	1502.4	1480.5
27.5°	1700.3	1683.1	1666.0	1639.0	1612.0	1585.0	1558.0	1530.9	1503.9	1476.9	1449.9
30°	1712.5	1693.2	1673.9	1642.7	1611.5	1580.4	1549.2	1518.0	1486.8	1455.7	1424.5
32.5°	1719.8	1697.9	1675.9	1641.9	1607.8	1573.8	1539.8	1505.7	1471.7	1437.7	1403.6
35°	1729.1	1704.5	1679.9	1643.0	1606.1	1569.2	1532.3	1495.4	1458.5	1421.6	1384.7
37.5°	1740.2	1713.0	1685.8	1645.4	1605.0	1564.6	1524.2	1483.7	1443.3	1402.9	1362.5
40°	1749.4	1719.6	1689.7	1646.2	1602.7	1559.3	1515.8	1472.3	1428.8	1385.4	1341.9
42.5°	1755.6	1722.6	1689.7	1643.2	1596.6	1550.1	1503.5	1457.0	1410.4	1363.9	1317.3
45°	1762.2	1725.9	1689.7	1639.9	1590.0	1540.2	1490.3	1440.5	1390.6	1340.8	1290.9
47.5°	1767.7	1727.8	1687.8	1634.9	1582.0	1529.0	1476.1	1423.2	1370.3	1317.3	1264.4
50°	1771.6	1727.7	1683.8	1627.6	1571.4	1515.2	1459.0	1402.7	1346.5	1290.3	1234.1
52.5°	1773.6	1725.8	1677.9	1618.6	1559.3	1500.0	1440.7	1381.5	1322.2	1262.9	1203.6
55°	1775.6	1723.7	1671.9	1609.5	1547.2	1484.8	1422.5	1360.1	1297.8	1235.4	1173.1
57.5°	1778.7	1723.3	1668.0	1602.1	1536.2	1470.4	1404.5	1338.6	1272.7	1206.9	1141.0
60°	1777.8	1718.9	1660.1	1590.9	1521.8	1452.6	1383.4	1314.3	1245.1	1175.9	1106.8
62.5°	1773.2	1711.7	1650.2	1578.0	1505.7	1433.5	1361.2	1289.0	1216.7	1144.5	1072.2
65°	1763.3	1699.9	1636.4	1560.6	1484.9	1409.1	1333.4	1257.6	1181.9	1106.1	1030.4
67.5°	1748.6	1683.6	1618.6	1540.2	1461.8	1383.4	1305.0	1226.6	1148.2	1069.8	991.4
70°	1721.3	1656.1	1590.9	1510.8	1430.6	1350.5	1270.3	1190.2	1110.0	1029.9	949.7
72.5°	1683.0	1618.2	1553.4	1472.1	1390.9	1309.6	1228.4	1147.1	1065.9	984.6	903.4
75°	1629.4	1565.7	1502.0	1420.8	1339.5	1258.3	1177.0	1095.8	1014.5	933.3	852.0
77.5°	1562.6	1500.6	1438.7	1359.0	1279.3	1199.6	1119.9	1040.1	960.4	880.7	801.0
80°	1491.4	1431.5	1371.5	1293.8	1216.0	1138.3	1060.6	982.8	905.1	827.4	749.6
82.5°	1418.5	1359.5	1300.4	1225.1	1149.8	1074.4	999.1	923.8	848.5	773.1	697.8
85°	1347.0	1290.1	1233.2	1160.3	1087.4	1014.5	941.6	868.7	795.8	722.9	650.0
87.5°	1280.8	1226.4	1171.9	1101.4	1030.9	960.5	890.0	819.5	749.0	678.6	608.1
90°	1230.6	1178.5	1126.5	1058.0	989.5	921.0	852.5	783.9	715.4	646.9	578.4
92.5°	1187.1	1137.1	1087.0	1020.5	953.9	887.4	820.8	754.3	687.7	621.2	554.6
95°	1144.0	1095.7	1047.4	982.2	917.0	851.8	786.6	721.3	656.1	590.9	525.7
97.5°	1103.4	1056.7	1009.9	946.2	882.5	818.9	755.2	691.5	627.8	564.2	500.5
100°	1060.4	1015.4	970.4	908.3	846.1	784.0	721.8	659.7	597.5	535.4	473.2
102.5°	1018.6	974.7	930.8	870.2	809.6	749.0	688.4	627.8	567.2	506.6	446.0
105°	975.4	932.3	889.3	830.5	771.6	712.8	653.9	595.1	536.2	477.4	418.5
107.5°	934.8	893.3	851.8	794.3	736.7	679.2	621.7	564.1	506.6	449.1	391.5
110°	892.2	852.3	812.3	756.3	700.3	644.3	588.3	532.3	476.3	420.3	364.3



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLED-LD4-16-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°	847.6	809.2	770.8	716.6	662.3	608.1	553.8	499.6	445.3	391.1	336.8
115°	803.1	766.2	729.3	676.8	624.3	571.8	519.3	466.9	414.4	361.9	309.4
117.5°	756.9	721.4	685.8	635.3	584.8	534.3	483.8	433.2	382.7	332.2	281.7
120°	708.8	674.6	640.3	592.2	544.1	496.0	447.9	399.9	351.8	303.7	255.6
122.5°	659.7	626.3	592.9	547.4	502.0	456.5	411.1	365.6	320.2	274.7	229.3
125°	608.1	575.8	543.5	500.9	458.3	415.7	373.1	330.5	287.9	245.3	202.7
127.5°	559.5	528.7	498.0	457.8	417.6	377.5	337.3	297.1	256.9	216.8	176.6
130°	507.0	477.8	448.6	411.5	374.4	337.3	300.2	263.0	225.9	188.8	151.7
132.5°	457.6	430.4	403.2	368.9	334.7	300.4	266.2	231.9	197.7	163.4	129.2
135°	410.2	385.0	359.7	328.1	296.5	264.8	233.2	201.6	170.0	138.3	106.7
137.5°	362.8	339.5	316.2	287.7	259.1	230.6	202.0	173.5	144.9	116.4	87.8
140°	318.4	297.6	276.7	250.6	224.4	198.3	172.2	146.0	119.9	93.8	67.6
142.5°	273.4	254.3	235.2	212.1	189.1	166.0	143.0	119.9	96.9	73.8	50.8
145°	229.9	212.8	195.7	175.9	156.2	136.4	116.6	96.9	77.1	57.3	37.6
147.5°	186.9	171.5	156.1	140.3	124.5	108.7	92.9	77.0	61.2	45.4	29.6
150°	147.4	134.0	120.6	108.3	96.0	83.7	71.4	59.1	46.8	34.5	22.2
152.5°	108.3	96.6	85.0	76.2	67.4	58.6	49.8	41.1	32.3	23.5	14.7
155°	75.1	65.2	55.3	49.6	43.9	38.2	32.5	26.8	21.1	15.4	9.7
157.5°	45.0	37.3	29.6	26.5	23.5	20.4	17.3	14.3	11.2	8.1	5.1
160°	25.0	20.4	15.8	14.3	12.7	11.2	9.7	8.1	6.6	5.1	3.5
162.5°	10.3	8.1	5.9	5.5	5.0	4.6	4.2	3.7	3.3	2.9	2.4
165°	3.3	2.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8
175°	0.0	0.0	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLELD4-16-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°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1753.0	1758.5	1764.0	1769.5	1775.0	1780.4	1785.9	1791.4	1796.9	1802.4	1802.8
5°	1729.3	1736.5	1743.8	1751.0	1758.3	1765.5	1772.8	1780.0	1787.3	1794.5	1797.4
7.5°	1699.6	1708.4	1717.2	1726.0	1734.8	1743.5	1752.3	1761.1	1769.9	1778.7	1784.2
10°	1668.0	1678.3	1688.6	1699.0	1709.3	1719.6	1729.9	1740.3	1750.6	1760.9	1769.0
12.5°	1636.4	1647.4	1658.4	1669.3	1680.3	1691.3	1702.3	1713.2	1724.2	1735.2	1745.7
15°	1600.8	1612.4	1624.1	1635.7	1647.3	1659.0	1670.6	1682.2	1693.9	1705.5	1718.9
17.5°	1567.2	1578.8	1590.5	1602.1	1613.7	1625.4	1637.0	1648.6	1660.3	1671.9	1688.2
20°	1531.6	1542.6	1553.6	1564.5	1575.5	1586.5	1597.5	1608.4	1619.4	1630.4	1649.7
22.5°	1496.1	1506.2	1516.3	1526.4	1536.5	1546.6	1556.7	1566.8	1576.9	1587.0	1609.8
25°	1458.5	1467.3	1476.1	1484.9	1493.7	1502.4	1511.2	1520.0	1528.8	1537.6	1563.7
27.5°	1422.9	1429.9	1437.0	1444.0	1451.0	1458.1	1465.1	1472.1	1479.2	1486.2	1515.8
30°	1393.3	1397.5	1401.6	1405.8	1410.0	1414.1	1418.3	1422.5	1426.6	1430.8	1464.4
32.5°	1369.6	1369.8	1370.0	1370.2	1370.4	1370.7	1370.9	1371.1	1371.3	1371.5	1409.1
35°	1347.8	1343.4	1339.0	1334.6	1330.2	1325.9	1321.5	1317.1	1312.7	1308.3	1350.7
37.5°	1322.1	1313.5	1305.0	1296.4	1287.9	1279.3	1270.8	1262.2	1253.7	1245.1	1292.3
40°	1298.4	1285.2	1272.0	1258.9	1245.7	1232.5	1219.3	1206.2	1193.0	1179.8	1232.1
42.5°	1270.8	1253.0	1235.2	1217.4	1199.6	1181.9	1164.1	1146.3	1128.5	1110.7	1168.2
45°	1241.1	1218.9	1196.7	1174.6	1152.4	1130.2	1108.0	1085.9	1063.7	1041.5	1103.6
47.5°	1211.5	1184.9	1158.3	1131.8	1105.2	1078.6	1052.0	1025.5	998.9	972.3	1039.5
50°	1177.9	1147.4	1116.9	1086.3	1055.8	1025.3	994.8	964.2	933.7	903.2	975.2
52.5°	1144.3	1109.4	1074.5	1039.5	1004.6	969.7	934.8	899.8	864.9	830.0	907.1
55°	1110.7	1071.6	1032.5	993.4	954.3	915.3	876.2	837.1	798.0	758.9	840.4
57.5°	1075.1	1032.3	989.5	946.6	903.8	861.0	818.2	775.3	732.5	689.7	775.1
60°	1037.6	991.3	944.9	898.6	852.3	805.9	759.6	713.3	666.9	620.6	709.7
62.5°	1000.0	950.2	900.3	850.5	800.6	750.8	700.9	651.1	601.2	551.4	644.1
65°	954.6	902.1	849.6	797.1	744.6	692.2	639.7	587.2	534.7	482.2	577.9
67.5°	913.0	857.0	801.0	745.0	689.0	633.1	577.1	521.1	465.1	409.1	508.1
70°	869.6	811.2	752.8	694.4	636.0	577.5	519.1	460.7	402.3	343.9	445.1
72.5°	822.1	761.9	701.8	641.6	581.4	521.3	461.1	400.9	340.8	280.6	383.6
75°	770.8	709.7	648.7	587.6	526.6	465.5	404.5	343.4	282.4	221.3	325.2
77.5°	721.3	659.6	597.9	536.2	474.5	412.8	351.1	289.4	227.7	166.0	270.3
80°	671.9	610.2	548.5	486.8	425.1	363.4	301.7	240.0	178.3	116.6	220.5
82.5°	622.5	561.5	500.4	439.4	378.3	317.3	256.2	195.2	134.1	73.1	175.9
85°	577.1	517.1	457.2	397.2	337.3	277.3	217.4	157.4	97.5	37.5	138.3
87.5°	537.6	479.2	420.8	362.4	304.0	245.5	187.1	128.7	70.3	11.9	110.1
90°	509.9	453.5	397.0	340.6	284.2	227.7	171.3	114.9	58.4	2.0	96.4
92.5°	488.1	433.9	379.6	325.4	271.2	216.9	162.7	108.5	54.2	0.0	91.1
95°	460.5	409.6	358.6	307.7	256.7	205.8	154.8	103.9	52.9	2.0	89.2
97.5°	436.8	388.3	339.7	291.2	242.7	194.1	145.6	97.1	48.5	0.0	83.4
100°	411.1	365.6	320.2	274.7	229.3	183.8	138.4	92.9	47.5	2.0	81.3
102.5°	385.4	342.8	300.2	257.6	215.0	172.4	129.8	87.2	44.6	2.0	78.0
105°	359.7	320.0	280.2	240.5	200.7	161.0	121.2	81.5	41.7	2.0	73.4
107.5°	334.0	297.1	260.2	223.3	186.4	149.6	112.7	75.8	38.9	2.0	69.6
110°	308.3	274.3	240.2	206.2	172.2	138.1	104.1	70.1	36.0	2.0	65.2



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLED-LD4-16-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°	282.6	251.4	220.2	189.1	157.9	126.7	95.5	64.4	33.2	2.0	60.6
115°	256.9	228.6	200.3	171.9	143.6	115.3	87.0	58.6	30.3	2.0	55.8
117.5°	231.2	205.7	180.3	154.8	129.3	103.9	78.4	52.9	27.5	2.0	51.0
120°	207.5	184.7	161.8	139.0	116.2	93.3	70.5	47.7	24.8	2.0	46.4
122.5°	183.8	163.6	143.4	123.2	103.0	82.8	62.6	42.4	22.2	2.0	41.7
125°	160.1	142.5	125.0	107.4	89.8	72.3	54.7	37.1	19.6	2.0	36.9
127.5°	136.4	121.5	106.5	91.6	76.7	61.7	46.8	31.9	16.9	2.0	31.4
130°	114.6	102.1	89.6	77.1	64.6	52.0	39.5	27.0	14.5	2.0	26.4
132.5°	94.9	84.6	74.3	63.9	53.6	43.3	33.0	22.6	12.3	2.0	21.5
135°	75.1	67.0	58.9	50.7	42.6	34.5	26.4	18.2	10.1	2.0	17.1
137.5°	59.3	52.9	46.6	40.2	33.8	27.5	21.1	14.7	8.4	2.0	13.6
140°	41.5	37.1	32.7	28.3	23.9	19.6	15.2	10.8	6.4	2.0	10.1
142.5°	27.7	24.8	22.0	19.1	16.3	13.4	10.6	7.7	4.9	2.0	7.9
145°	17.8	16.0	14.3	12.5	10.8	9.0	7.3	5.5	3.8	2.0	5.7
147.5°	13.8	12.5	11.2	9.9	8.6	7.2	5.9	4.6	3.3	2.0	4.6
150°	9.9	9.0	8.1	7.3	6.4	5.5	4.6	3.8	2.9	2.0	3.8
152.5°	5.9	5.5	5.0	4.6	4.2	3.7	3.3	2.9	2.4	2.0	3.3
155°	4.0	3.8	3.6	3.3	3.1	2.9	2.7	2.4	2.2	2.0	2.9
157.5°	2.0	2.2	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	4.2
160°	2.0	2.2	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	4.0
162.5°	2.0	2.2	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	3.8
165°	2.0	2.2	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	3.6
167.5°	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1	3.6	4.0	3.6
170°	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1	3.6	4.0	3.6
172.5°	2.0	2.2	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	3.6
175°	2.0	2.2	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	3.6
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: P201414

CATALOG NUMBER: 8LBLELD4-16-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°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1803.3	1803.7	1804.1	1804.6	1805.0	1805.4	1805.9	1806.3	1808.1	1809.8	1811.6
5°	1800.2	1803.1	1805.9	1808.8	1811.6	1814.5	1817.3	1820.2	1824.4	1828.5	1832.7
7.5°	1789.7	1795.2	1800.7	1806.1	1811.6	1817.1	1822.6	1828.1	1834.9	1841.7	1848.5
10°	1777.1	1785.3	1793.4	1801.5	1809.6	1817.8	1825.9	1834.0	1843.4	1852.9	1862.3
12.5°	1756.3	1766.8	1777.3	1787.9	1798.4	1808.9	1819.5	1830.0	1843.0	1855.9	1868.9
15°	1732.3	1745.7	1759.1	1772.5	1785.9	1799.3	1812.7	1826.1	1842.6	1859.0	1875.5
17.5°	1704.4	1720.7	1736.9	1753.2	1769.4	1785.7	1801.9	1818.2	1839.3	1860.4	1881.4
20°	1669.1	1688.4	1707.7	1727.1	1746.4	1765.7	1785.1	1804.4	1831.0	1857.5	1884.1
22.5°	1632.7	1655.5	1678.3	1701.2	1724.0	1746.8	1769.7	1792.5	1825.0	1857.5	1890.0
25°	1589.8	1616.0	1642.1	1668.2	1694.3	1720.5	1746.6	1772.7	1811.8	1850.9	1890.0
27.5°	1545.5	1575.1	1604.8	1634.4	1664.1	1693.7	1723.4	1753.0	1798.7	1844.3	1890.0
30°	1498.0	1531.6	1565.2	1598.8	1632.4	1666.0	1699.6	1733.2	1784.8	1836.4	1888.0
32.5°	1446.6	1484.2	1521.7	1559.3	1596.8	1634.4	1671.9	1709.5	1767.0	1824.6	1882.1
35°	1393.1	1435.4	1477.8	1520.2	1562.6	1604.9	1647.3	1689.7	1752.7	1815.7	1878.8
37.5°	1339.5	1386.7	1433.9	1481.2	1528.4	1575.6	1622.8	1670.0	1738.3	1806.6	1874.9
40°	1284.3	1336.6	1388.9	1441.1	1493.4	1545.7	1597.9	1650.2	1723.5	1796.9	1870.2
42.5°	1225.8	1283.3	1340.8	1398.4	1455.9	1513.4	1571.0	1628.5	1706.7	1784.8	1863.0
45°	1165.8	1227.9	1290.1	1352.2	1414.4	1476.5	1538.7	1600.8	1684.2	1767.7	1851.1
47.5°	1106.7	1173.9	1241.1	1308.3	1375.5	1442.7	1509.9	1577.1	1664.7	1752.3	1839.9
50°	1047.2	1119.3	1191.3	1263.3	1335.3	1407.4	1479.4	1551.4	1643.2	1735.0	1826.8
52.5°	984.2	1061.2	1138.3	1215.4	1292.5	1369.5	1446.6	1523.7	1619.2	1714.7	1810.3
55°	921.8	1003.3	1084.8	1166.2	1247.7	1329.2	1410.6	1492.1	1591.6	1691.1	1790.5
57.5°	860.5	946.0	1031.4	1116.8	1202.2	1287.7	1373.1	1458.5	1562.1	1665.8	1769.4
60°	798.9	888.0	977.2	1066.3	1155.5	1244.6	1333.8	1422.9	1530.3	1637.7	1745.0
62.5°	736.7	829.4	922.1	1014.7	1107.4	1200.1	1292.7	1385.4	1496.5	1607.6	1718.7
65°	673.7	769.4	865.2	960.9	1056.7	1152.4	1248.2	1343.9	1458.7	1573.6	1688.4
67.5°	607.2	706.2	805.2	904.3	1003.3	1102.3	1201.4	1300.4	1418.8	1537.1	1655.5
70°	546.3	647.6	748.8	850.0	951.2	1052.5	1153.7	1254.9	1376.1	1497.3	1618.6
72.5°	486.6	589.6	692.6	795.5	898.5	1001.5	1104.5	1207.5	1330.3	1453.0	1575.8
75°	429.0	532.9	636.8	740.6	844.5	948.4	1052.2	1156.1	1280.2	1404.2	1528.3
77.5°	374.6	478.9	583.2	687.5	791.8	896.1	1000.4	1104.7	1228.8	1352.9	1476.9
80°	324.3	428.2	532.1	635.9	739.8	843.7	947.5	1051.4	1174.8	1298.2	1421.6
82.5°	278.6	381.4	484.2	586.9	689.7	792.5	895.2	998.0	1120.3	1242.6	1364.9
85°	239.1	339.9	440.7	541.5	642.3	743.1	843.9	944.7	1065.5	1186.2	1307.0
87.5°	208.2	306.4	404.5	502.7	600.8	699.0	797.1	895.3	1013.9	1132.5	1251.0
90°	190.8	285.3	379.7	474.1	568.5	663.0	757.4	851.8	967.7	1083.7	1199.6
92.5°	182.3	273.4	364.5	455.7	546.8	637.9	729.1	820.2	933.9	1047.7	1161.4
95°	176.4	263.5	350.7	437.9	525.1	612.2	699.4	786.6	898.6	1010.6	1122.6
97.5°	166.9	250.3	333.8	417.2	500.7	584.1	667.6	751.0	861.5	971.9	1082.4
100°	160.5	239.8	319.1	398.3	477.6	556.9	636.1	715.4	824.1	932.8	1041.5
102.5°	154.0	229.9	305.9	381.9	457.9	533.8	609.8	685.8	792.1	898.4	1004.6
105°	144.7	216.1	287.5	358.8	430.2	501.6	572.9	644.3	748.8	853.3	957.9
107.5°	137.3	204.9	272.5	340.2	407.8	475.4	543.1	610.7	712.4	814.0	915.7
110°	128.5	191.7	254.9	318.2	381.4	444.6	507.9	571.1	670.1	769.2	868.2



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLED-LD4-16-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°	119.2	177.9	236.5	295.1	353.7	412.4	471.0	529.6	626.2	722.8	819.5
115°	109.6	163.4	217.2	271.0	324.8	378.6	432.4	486.2	580.4	674.6	768.8
117.5°	99.9	148.9	197.9	246.8	295.8	344.8	393.7	442.7	533.8	625.0	716.1
120°	90.7	135.1	179.4	223.8	268.1	312.5	356.8	401.2	489.3	577.3	665.4
122.5°	81.5	121.2	161.0	200.7	240.5	280.2	320.0	359.7	444.2	528.8	613.3
125°	71.8	106.7	141.6	176.6	211.5	246.4	281.3	316.2	396.8	477.4	558.0
127.5°	60.8	90.3	119.7	149.1	178.5	208.0	237.4	266.8	342.8	418.8	494.7
130°	50.7	75.1	99.5	123.8	148.2	172.6	196.9	221.3	290.3	359.2	428.2
132.5°	41.1	60.6	80.2	99.7	119.3	138.8	158.4	177.9	240.0	302.2	364.3
135°	32.3	47.4	62.6	77.7	92.9	108.0	123.2	138.3	194.1	249.9	305.6
137.5°	25.3	36.9	48.5	60.2	71.8	83.4	95.1	106.7	156.1	205.5	254.9
140°	18.2	26.4	34.5	42.6	50.7	58.9	67.0	75.1	118.4	161.6	204.9
142.5°	13.8	19.8	25.7	31.6	37.5	43.5	49.4	55.3	92.2	129.1	166.0
145°	9.5	13.2	16.9	20.7	24.4	28.1	31.9	35.6	66.8	98.0	129.1
147.5°	7.3	9.9	12.5	15.2	17.8	20.4	23.1	25.7	50.7	75.8	100.8
150°	5.5	7.3	9.0	10.8	12.5	14.3	16.0	17.8	36.9	56.0	75.1
152.5°	4.6	5.9	7.2	8.6	9.9	11.2	12.5	13.8	27.6	41.5	55.3
155°	3.8	4.6	5.5	6.4	7.3	8.1	9.0	9.9	18.7	27.5	36.2
157.5°	4.4	4.6	4.8	5.1	5.3	5.5	5.7	5.9	11.0	16.0	21.1
160°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.6	9.3	11.9
162.5°	3.6	3.3	3.1	2.9	2.7	2.4	2.2	2.0	3.3	4.6	5.9
165°	3.1	2.7	2.2	1.8	1.3	0.9	0.4	0.0	0.4	0.9	1.3
167.5°	3.1	2.7	2.2	1.8	1.3	0.9	0.4	0.0	0.0	0.0	0.0
170°	3.1	2.7	2.2	1.8	1.3	0.9	0.4	0.0	0.0	0.0	0.0
172.5°	3.1	2.7	2.2	1.8	1.3	0.9	0.4	0.0	0.0	0.0	0.0
175°	3.1	2.7	2.2	1.8	1.3	0.9	0.4	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: P201414

CATALOG NUMBER: 8LBLEDD4-16-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°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1813.3	1815.1	1816.8	1818.6	1820.3	1822.1	1823.0	1823.9	1824.7	1825.6	1826.5
5°	1836.9	1841.0	1845.2	1849.4	1853.5	1857.7	1859.9	1862.1	1864.3	1866.5	1868.7
7.5°	1855.3	1862.1	1868.9	1875.7	1882.5	1889.3	1893.5	1897.7	1901.8	1906.0	1910.2
10°	1871.8	1881.2	1890.7	1900.1	1909.6	1919.0	1926.0	1933.0	1940.1	1947.1	1954.1
12.5°	1881.9	1894.8	1907.8	1920.8	1933.7	1946.7	1956.6	1966.5	1976.3	1986.2	1996.1
15°	1892.0	1908.4	1924.9	1941.4	1957.8	1974.3	1987.9	2001.5	2015.1	2028.7	2042.4
17.5°	1902.5	1923.6	1944.7	1965.7	1986.8	2007.9	2026.6	2045.2	2063.9	2082.6	2101.2
20°	1910.7	1937.2	1963.8	1990.4	2016.9	2043.5	2066.3	2089.2	2112.0	2134.8	2157.7
22.5°	1922.5	1955.0	1987.5	2020.0	2052.5	2085.0	2110.9	2136.8	2162.7	2188.6	2214.6
25°	1929.1	1968.1	2007.2	2046.3	2085.4	2124.5	2153.9	2183.3	2212.8	2242.2	2271.6
27.5°	1935.7	1981.3	2027.0	2072.7	2118.3	2164.0	2196.3	2228.6	2260.9	2293.2	2325.4
30°	1939.6	1991.2	2042.8	2094.4	2146.0	2197.6	2233.2	2268.8	2304.3	2339.9	2375.5
32.5°	1939.6	1997.2	2054.7	2112.2	2169.8	2227.3	2266.4	2305.5	2344.6	2383.7	2422.7
35°	1941.8	2004.8	2067.8	2130.9	2193.9	2256.9	2299.7	2342.5	2385.4	2428.2	2471.0
37.5°	1943.2	2011.4	2079.7	2148.0	2216.3	2284.6	2331.2	2377.7	2424.3	2470.8	2517.4
40°	1943.6	2016.9	2090.3	2163.6	2237.0	2310.3	2360.6	2410.9	2461.2	2511.5	2561.7
42.5°	1941.2	2019.3	2097.5	2175.7	2253.8	2332.0	2386.0	2440.0	2494.1	2548.1	2602.1
45°	1934.6	2018.0	2101.5	2184.9	2268.4	2351.8	2410.0	2468.2	2526.4	2584.6	2642.7
47.5°	1927.5	2015.2	2102.8	2190.4	2278.0	2365.6	2428.6	2491.6	2554.7	2617.7	2680.7
50°	1918.6	2010.3	2102.1	2193.9	2285.7	2377.5	2445.1	2512.8	2580.4	2648.0	2715.7
52.5°	1905.8	2001.3	2096.8	2192.4	2287.9	2383.4	2456.3	2529.2	2602.1	2675.0	2747.9
55°	1890.0	1989.5	2089.0	2188.4	2287.9	2387.4	2464.7	2542.0	2619.3	2696.6	2773.8
57.5°	1873.1	1976.7	2080.4	2184.0	2287.7	2391.3	2473.0	2554.7	2636.4	2718.1	2799.7
60°	1852.4	1959.8	2067.2	2174.5	2281.9	2389.3	2474.9	2560.6	2646.2	2731.9	2817.5
62.5°	1829.8	1941.0	2052.1	2163.2	2274.3	2385.4	2474.3	2563.3	2652.2	2741.1	2830.1
65°	1803.3	1918.1	2033.0	2147.8	2262.7	2377.5	2469.1	2560.6	2652.2	2743.8	2835.3
67.5°	1773.8	1892.2	2010.5	2128.9	2247.2	2365.6	2459.1	2552.7	2646.2	2739.8	2833.3
70°	1739.8	1861.0	1982.2	2103.5	2224.7	2345.9	2441.2	2536.5	2631.8	2727.1	2822.4
72.5°	1698.5	1821.3	1944.0	2066.8	2189.5	2312.3	2408.9	2505.5	2602.1	2698.7	2795.4
75°	1652.4	1776.4	1900.5	2024.6	2148.6	2272.7	2370.0	2467.3	2564.5	2661.8	2759.1
77.5°	1601.0	1725.1	1849.2	1973.2	2097.3	2221.4	2318.2	2415.1	2511.9	2608.7	2705.6
80°	1545.0	1668.5	1791.9	1915.3	2038.7	2162.1	2258.1	2354.0	2450.0	2545.9	2641.9
82.5°	1487.2	1609.6	1731.9	1854.2	1976.5	2098.8	2194.1	2289.4	2384.7	2480.0	2575.3
85°	1427.8	1548.5	1669.3	1790.1	1910.8	2031.6	2124.5	2217.4	2310.3	2403.2	2496.0
87.5°	1369.6	1488.2	1606.8	1725.3	1843.9	1962.5	2054.1	2145.6	2237.2	2328.8	2420.3
90°	1315.6	1431.5	1547.5	1663.4	1779.4	1895.3	1984.0	2072.7	2161.4	2250.1	2338.9
92.5°	1275.2	1388.9	1502.7	1616.4	1730.2	1843.9	1930.2	2016.5	2102.8	2189.1	2275.4
95°	1234.6	1346.5	1458.5	1570.5	1682.5	1794.5	1879.5	1964.5	2049.4	2134.4	2219.4
97.5°	1192.8	1303.3	1413.7	1524.2	1634.6	1745.1	1827.9	1910.7	1993.4	2076.2	2159.0
100°	1150.2	1258.9	1367.6	1476.3	1585.0	1693.7	1773.8	1854.0	1934.1	2014.3	2094.4
102.5°	1110.9	1217.2	1323.5	1429.7	1536.0	1642.3	1720.9	1799.5	1878.1	1956.7	2035.4
105°	1062.4	1166.9	1271.4	1376.0	1480.5	1585.0	1662.3	1739.6	1816.9	1894.2	1971.4
107.5°	1017.4	1119.0	1220.7	1322.4	1424.0	1525.7	1601.7	1677.7	1753.6	1829.6	1905.6
110°	967.3	1066.3	1165.4	1264.4	1363.5	1462.5	1536.7	1610.9	1685.1	1759.3	1833.6



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLED-LD4-16-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°	916.1	1012.7	1109.3	1206.0	1302.6	1399.2	1471.4	1543.7	1615.9	1688.2	1760.4
115°	863.0	957.2	1051.4	1145.6	1239.8	1334.0	1404.3	1474.5	1544.8	1615.1	1685.3
117.5°	807.2	898.4	989.5	1080.6	1171.8	1262.9	1331.2	1399.5	1467.8	1536.1	1604.3
120°	753.4	841.5	929.5	1017.6	1105.6	1193.7	1259.1	1324.6	1390.0	1455.4	1520.9
122.5°	697.9	782.4	867.0	951.5	1036.1	1120.6	1183.6	1246.6	1309.7	1372.7	1435.7
125°	638.6	719.1	799.7	880.3	960.9	1041.5	1101.9	1162.3	1222.7	1283.1	1343.4
127.5°	570.7	646.7	722.7	798.6	874.6	950.6	1009.7	1068.7	1127.8	1186.9	1245.9
130°	497.1	566.1	635.0	704.0	772.9	841.9	901.4	960.9	1020.4	1079.9	1139.5
132.5°	426.5	488.6	550.8	612.9	675.1	737.2	796.3	855.3	914.4	973.5	1032.5
135°	361.4	417.2	473.0	528.7	584.5	640.3	697.4	754.5	811.6	868.7	925.8
137.5°	304.3	353.8	403.2	452.6	502.0	551.4	604.3	657.2	710.2	763.1	816.0
140°	248.1	291.4	334.6	377.9	421.1	464.4	512.1	559.7	607.4	655.0	702.7
142.5°	202.9	239.8	276.7	313.6	350.5	387.4	429.6	471.7	513.9	556.0	598.2
145°	160.3	191.5	222.7	253.8	285.0	316.2	352.7	389.1	425.6	462.0	498.5
147.5°	125.8	150.9	175.9	200.9	226.0	251.0	282.2	313.4	344.5	375.7	406.9
150°	94.2	113.3	132.4	151.5	170.6	189.7	215.6	241.5	267.4	293.3	319.3
152.5°	69.1	83.0	96.8	110.6	124.5	138.3	159.4	180.5	201.6	222.7	243.7
155°	45.0	53.8	62.6	71.3	80.1	88.9	105.8	122.7	139.6	156.5	173.5
157.5°	26.1	31.2	36.2	41.3	46.3	51.4	64.1	76.9	89.6	102.3	115.1
160°	14.5	17.2	19.8	22.4	25.1	27.7	35.8	43.9	52.1	60.2	68.3
162.5°	7.2	8.6	9.9	11.2	12.5	13.8	17.8	21.7	25.7	29.6	33.6
165°	1.8	2.2	2.7	3.1	3.6	4.0	5.5	7.1	8.6	10.1	11.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	1.3	1.8	2.2
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLELD4-16-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°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1827.4	1828.2	1829.1	1830.0	1828.0	1826.1	1824.1	1822.1	1820.2	1818.2	1816.2
5°	1870.9	1873.1	1875.3	1877.5	1877.3	1877.1	1876.8	1876.6	1876.4	1876.2	1875.9
7.5°	1914.4	1918.5	1922.7	1926.9	1927.3	1927.8	1928.2	1928.6	1929.1	1929.5	1929.9
10°	1961.1	1968.2	1975.2	1982.2	1983.1	1984.0	1984.8	1985.7	1986.6	1987.5	1988.3
12.5°	2006.0	2015.8	2025.7	2035.6	2038.2	2040.9	2043.5	2046.1	2048.8	2051.4	2054.0
15°	2056.0	2069.6	2083.2	2096.8	2101.6	2106.5	2111.3	2116.1	2121.0	2125.8	2130.6
17.5°	2119.9	2138.6	2157.2	2175.9	2181.8	2187.8	2193.7	2199.6	2205.6	2211.5	2217.4
20°	2180.5	2203.3	2226.2	2249.0	2256.2	2263.5	2270.7	2278.0	2285.2	2292.5	2299.7
22.5°	2240.5	2266.4	2292.3	2318.2	2327.0	2335.8	2344.5	2353.3	2362.1	2370.9	2379.6
25°	2301.0	2330.5	2359.9	2389.3	2399.2	2409.1	2419.0	2428.9	2438.7	2448.6	2458.5
27.5°	2357.7	2390.0	2422.3	2454.6	2466.0	2477.4	2488.8	2500.2	2511.7	2523.1	2534.5
30°	2411.1	2446.6	2482.2	2517.8	2530.8	2543.7	2556.7	2569.6	2582.6	2595.5	2608.5
32.5°	2461.8	2500.9	2540.0	2579.1	2594.2	2609.4	2624.5	2639.7	2654.8	2670.0	2685.1
35°	2513.8	2556.7	2599.5	2642.3	2659.0	2675.7	2692.4	2709.1	2725.7	2742.4	2759.1
37.5°	2563.9	2610.5	2657.0	2703.6	2722.0	2740.5	2758.9	2777.4	2795.8	2814.3	2832.7
40°	2612.0	2662.3	2712.6	2762.9	2783.3	2803.7	2824.2	2844.6	2865.0	2885.4	2905.9
42.5°	2656.1	2710.2	2764.2	2818.2	2840.8	2863.4	2886.1	2908.7	2931.3	2953.9	2976.6
45°	2700.9	2759.1	2817.3	2875.5	2900.1	2924.7	2949.3	2973.9	2998.5	3023.1	3047.7
47.5°	2743.7	2806.8	2869.8	2932.8	2959.4	2986.0	3012.5	3039.1	3065.7	3092.3	3118.8
50°	2783.3	2850.9	2918.6	2986.2	3015.0	3043.7	3072.5	3101.3	3130.0	3158.8	3187.6
52.5°	2820.8	2893.7	2966.6	3039.5	3070.0	3100.5	3131.1	3161.6	3192.1	3222.6	3253.2
55°	2851.1	2928.4	3005.7	3083.0	3115.7	3148.4	3181.2	3213.9	3246.6	3279.3	3312.1
57.5°	2881.4	2963.1	3044.8	3126.5	3160.5	3194.6	3228.6	3262.6	3296.7	3330.7	3364.7
60°	2903.2	2988.8	3074.5	3160.1	3195.5	3230.8	3266.2	3301.5	3336.9	3372.2	3407.6
62.5°	2919.0	3007.9	3096.9	3185.8	3222.0	3258.3	3294.5	3330.7	3367.0	3403.2	3439.4
65°	2926.9	3018.5	3110.0	3201.6	3238.5	3275.4	3312.3	3349.2	3386.0	3422.9	3459.8
67.5°	2926.9	3020.4	3114.0	3207.5	3244.6	3281.7	3318.8	3355.9	3393.1	3430.2	3467.3
70°	2917.7	3013.0	3108.3	3203.6	3240.7	3277.8	3314.9	3352.0	3389.2	3426.3	3463.4
72.5°	2892.0	2988.6	3085.2	3181.8	3219.1	3256.5	3293.8	3331.1	3368.5	3405.8	3443.1
75°	2856.4	2953.6	3050.9	3148.2	3185.1	3222.0	3258.9	3295.8	3332.7	3369.6	3406.5
77.5°	2802.4	2899.2	2996.1	3092.9	3129.6	3166.2	3202.9	3239.6	3276.2	3312.9	3349.6
80°	2737.8	2833.8	2929.7	3025.7	3062.2	3098.6	3135.1	3171.5	3208.0	3244.4	3280.9
82.5°	2670.6	2765.9	2861.2	2956.5	2991.6	3026.8	3061.9	3097.0	3132.2	3167.3	3202.4
85°	2588.9	2681.8	2774.7	2867.6	2903.0	2938.3	2973.7	3009.0	3044.4	3079.7	3115.1
87.5°	2511.9	2603.5	2695.0	2786.6	2820.6	2854.7	2888.7	2922.7	2956.8	2990.8	3024.8
90°	2427.6	2516.3	2605.0	2693.7	2728.2	2762.7	2797.1	2831.6	2866.1	2900.6	2935.0
92.5°	2361.7	2448.0	2534.3	2620.6	2654.2	2687.8	2721.4	2755.0	2788.5	2822.1	2855.7
95°	2304.4	2389.3	2474.3	2559.3	2590.7	2622.1	2653.5	2684.9	2716.3	2747.7	2779.1
97.5°	2241.8	2324.5	2407.3	2490.1	2520.6	2551.1	2581.7	2612.2	2642.7	2673.2	2703.8
100°	2174.6	2254.7	2334.9	2415.0	2445.5	2476.0	2506.6	2537.1	2567.6	2598.1	2628.7
102.5°	2114.0	2192.6	2271.2	2349.8	2379.7	2409.5	2439.4	2469.3	2499.1	2529.0	2558.9
105°	2048.7	2126.0	2203.3	2280.6	2309.8	2339.0	2368.2	2397.4	2426.7	2455.9	2485.1
107.5°	1981.6	2057.5	2133.5	2209.5	2238.3	2267.0	2295.8	2324.6	2353.3	2382.1	2410.9
110°	1907.8	1982.0	2056.2	2130.4	2158.5	2186.6	2214.7	2242.8	2271.0	2299.1	2327.2



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLED-LD4-16-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°	1832.7	1904.9	1977.2	2049.4	2076.9	2104.3	2131.8	2159.2	2186.7	2214.1	2241.6
115°	1755.6	1825.9	1896.1	1966.4	1992.8	2019.1	2045.5	2071.8	2098.2	2124.5	2150.9
117.5°	1672.6	1740.9	1809.2	1877.5	1903.0	1928.4	1953.9	1979.4	2004.8	2030.3	2055.8
120°	1586.3	1651.7	1717.2	1782.6	1807.6	1832.7	1857.7	1882.7	1907.8	1932.8	1957.8
122.5°	1498.7	1561.8	1624.8	1687.8	1711.9	1736.1	1760.2	1784.4	1808.5	1832.7	1856.8
125°	1403.8	1464.2	1524.6	1585.0	1608.1	1631.1	1654.2	1677.2	1700.3	1723.3	1746.4
127.5°	1305.0	1364.1	1423.1	1482.2	1503.9	1525.7	1547.4	1569.2	1590.9	1612.7	1634.4
130°	1199.0	1258.5	1318.0	1377.5	1398.1	1418.8	1439.4	1460.0	1480.7	1501.3	1521.9
132.5°	1091.6	1150.7	1209.7	1268.8	1289.9	1311.0	1332.0	1353.1	1374.2	1395.3	1416.3
135°	982.9	1040.0	1097.1	1154.2	1174.4	1194.6	1214.8	1235.0	1255.2	1275.4	1295.6
137.5°	868.9	921.9	974.8	1027.7	1048.1	1068.5	1089.0	1109.4	1129.8	1150.2	1170.7
140°	750.3	798.0	845.6	893.3	914.4	935.5	956.5	977.6	998.7	1019.8	1040.8
142.5°	640.3	682.5	724.6	766.8	788.3	809.8	831.4	852.9	874.4	895.9	917.5
145°	534.9	571.4	607.8	644.3	666.7	689.1	711.5	733.9	756.3	778.7	801.1
147.5°	438.1	469.2	500.4	531.6	554.0	576.4	598.8	621.2	643.6	666.0	688.4
150°	345.2	371.1	397.0	422.9	445.3	467.7	490.1	512.5	534.9	557.3	579.7
152.5°	264.8	285.9	307.0	328.1	349.2	370.3	391.3	412.4	433.5	454.6	475.6
155°	190.4	207.3	224.2	241.1	259.8	278.4	297.1	315.8	334.4	353.1	371.8
157.5°	127.8	140.5	153.3	166.0	182.0	198.1	214.1	230.1	246.2	262.2	278.2
160°	76.4	84.6	92.7	100.8	113.8	126.7	139.7	152.6	165.6	178.5	191.5
162.5°	37.5	41.5	45.4	49.4	58.2	67.0	75.8	84.6	93.3	102.1	110.9
165°	13.2	14.7	16.3	17.8	23.1	28.3	33.6	38.9	44.1	49.4	54.7
167.5°	2.7	3.1	3.6	4.0	6.0	7.9	9.9	11.9	13.8	15.8	17.8
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLED-LD4-16-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1774.7	1774.7
2.5°	1814.3	1812.3
5°	1875.7	1875.5
7.5°	1930.4	1930.8
10°	1989.2	1990.1
12.5°	2056.7	2059.3
15°	2135.5	2140.3
17.5°	2223.4	2229.3
20°	2307.0	2314.2
22.5°	2388.4	2397.2
25°	2468.4	2478.3
27.5°	2545.9	2557.3
30°	2621.4	2634.4
32.5°	2700.3	2715.4
35°	2775.8	2792.5
37.5°	2851.2	2869.6
40°	2926.3	2946.7
42.5°	2999.2	3021.8
45°	3072.3	3096.9
47.5°	3145.4	3172.0
50°	3216.3	3245.1
52.5°	3283.7	3314.2
55°	3344.8	3377.5
57.5°	3398.8	3432.8
60°	3442.9	3478.3
62.5°	3475.7	3511.9
65°	3496.7	3533.6
67.5°	3504.4	3541.5
70°	3500.5	3537.6
72.5°	3480.5	3517.8
75°	3443.4	3480.3
77.5°	3386.2	3422.9
80°	3317.3	3353.8
82.5°	3237.6	3272.7
85°	3150.4	3185.8
87.5°	3058.9	3092.9
90°	2969.5	3004.0
92.5°	2889.3	2922.9
95°	2810.5	2841.9
97.5°	2734.3	2764.8
100°	2659.2	2689.7
102.5°	2588.7	2618.6
105°	2514.3	2543.5
107.5°	2439.6	2468.4
110°	2355.3	2383.4



TEST NUMBER: P201414

CATALOG NUMBER: 8LBLED-LD4-16-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	2269.0	2296.5
115°	2177.2	2203.6
117.5°	2081.2	2106.7
120°	1982.9	2007.9
122.5°	1881.0	1905.1
125°	1769.4	1792.5
127.5°	1656.2	1677.9
130°	1542.6	1563.2
132.5°	1437.4	1458.5
135°	1315.8	1336.0
137.5°	1191.1	1211.5
140°	1061.9	1083.0
142.5°	939.0	960.5
145°	823.5	845.9
147.5°	710.8	733.2
150°	602.1	624.5
152.5°	496.7	517.8
155°	390.4	409.1
157.5°	294.3	310.3
160°	204.4	217.4
162.5°	119.7	128.5
165°	59.9	65.2
167.5°	19.7	21.7
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)