

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: P201396

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28234)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8LBLELD4-14-ASYMF-UNV-L835-CD2-U
Description: 8 ft. Low Bay Linear, 9000 lm, Frst 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: 15238.3 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 2.02 / 1.17 / 1.78
Luminous Opening: Rectangular w/ Sides (W: 8' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

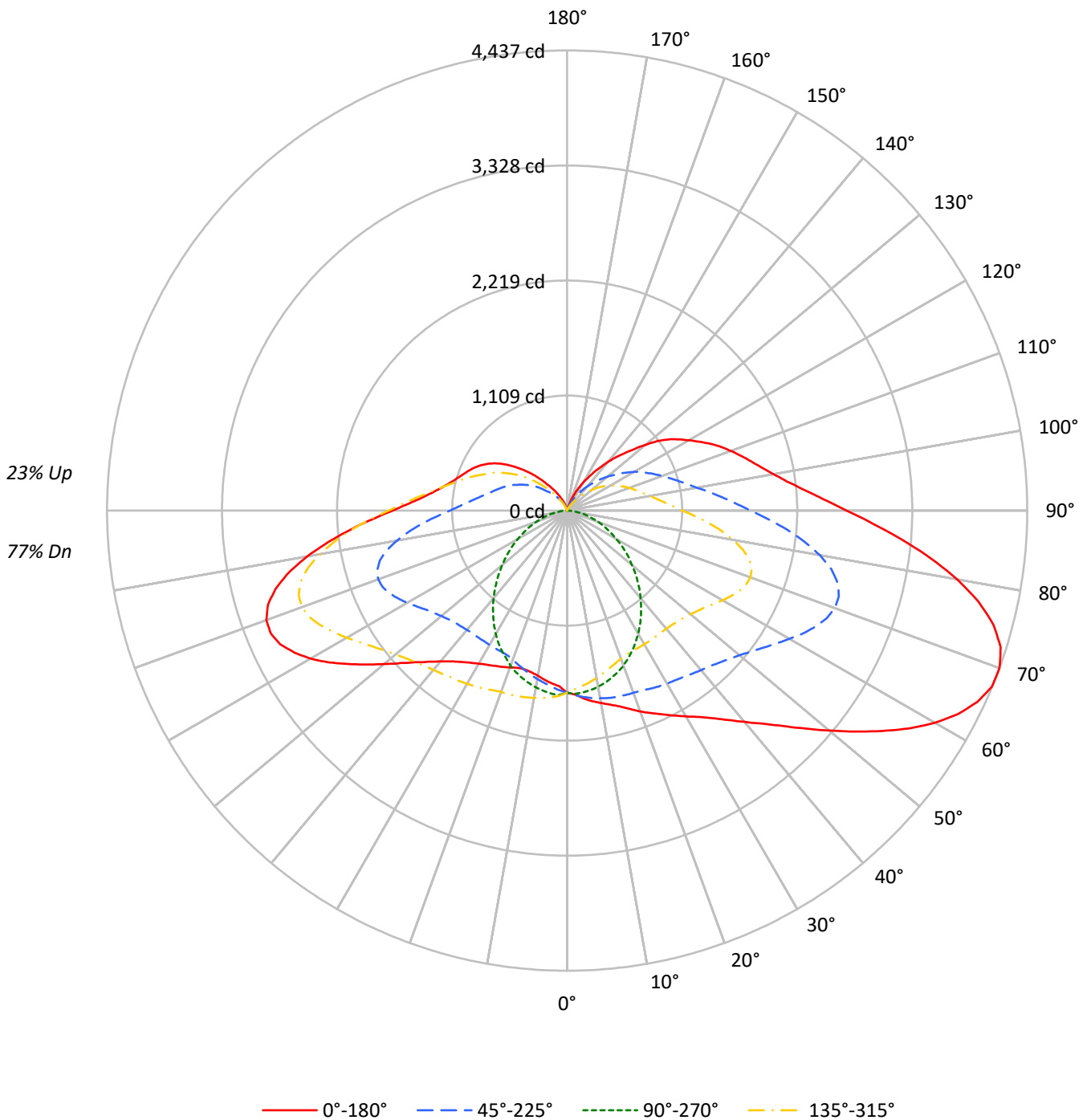
Input Watts (W): 117.46
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	77
1	98	90	84	78	92	86	80	75	77	72	68	69	65	62	62	59	56	52
2	86	75	66	59	81	71	63	56	64	57	51	57	51	46	50	46	42	38
3	77	64	54	46	72	61	51	44	54	46	40	48	42	36	42	37	33	29
4	70	55	45	37	65	52	43	35	47	39	32	41	35	29	37	31	27	23
5	63	49	38	31	59	46	37	29	41	33	27	37	30	24	32	27	22	19
6	58	43	33	26	54	41	32	25	37	29	23	33	26	21	29	23	19	16
7	54	39	29	22	50	37	28	21	33	25	20	29	23	18	26	20	16	14
8	50	35	26	19	47	33	25	19	30	22	17	27	20	16	24	18	14	12
9	46	32	23	17	43	30	22	16	27	20	15	25	18	14	22	17	12	10
10	43	29	21	15	41	28	20	15	25	18	13	23	17	12	20	15	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14141	14141	14141	14141
5°	13261	14200	12202	14295
10°	12636	14046	10847	14103
15°	12220	13802	9908	13860
20°	12163	13496	9498	13536
25°	12186	13072	9291	13093
30°	12398	12569	9219	12612
35°	12835	11981	9356	12003
40°	13671	11345	9760	11370
45°	14891	10656	10497	10656
50°	16647	9901	11618	9929
55°	18726	9254	13036	9254
60°	20889	8371	14571	8444
65°	22665	7691	15847	7734
70°	23636	6945	16443	6945
75°	23460	6044	16031	6044
80°	21975	4921	14637	5014
85°	19679	3499	12708	3670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	1.1
10°-20°	485.9	3.2
20°-30°	783.9	5.1
30°-40°	1063.7	7.0
40°-50°	1368.1	9.0
50°-60°	1754.1	11.5
60°-70°	2145.1	14.1
70°-80°	2186.4	14.3
80°-90°	1706.0	11.2
90°-100°	1188.4	7.8
100°-110°	886.3	5.8
110°-120°	665.3	4.4
120°-130°	451.2	3.0
130°-140°	248.0	1.6
140°-150°	105.5	0.7
150°-160°	31.0	0.2
160°-170°	2.9	0.0
170°-180°	0.0	0.0
0°-30°	1436.3	9.4
0°-40°	2500.1	16.4
0°-60°	5622.2	36.9
0°-90°	11659.6	76.5
90°-120°	2740.0	18.0
90°-150°	3544.7	23.3
90°-180°	3579.0	23.5
0°-180°	15238.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1755	1755	1755	1755	1755	
5°	1818	1760	1673	1772	1818	175
15°	1954	1666	1584	1673	1954	559
25°	2167	1488	1652	1491	2167	1008
35°	2443	1240	1781	1243	2443	1547
45°	2935	960	2069	960	2935	2293
55°	3704	683	2579	683	3704	3328
65°	4364	426	3052	428	4364	4299
75°	4257	213	2909	213	4257	4450
85°	3244	49	2094	52	3244	2769
90°	2694	0	1680	0	2694	1482
95°	2291	0	1406	0	2291	1819
105°	1835	0	1128	0	1835	1948
115°	1524	0	983	2	1524	1512
125°	1198	0	789	2	1198	1068
135°	782	0	517	2	782	615
145°	449	0	276	2	449	289
155°	199	0	126	2	199	96
165°	23	0	21	2	23	10
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1
2.5°	1776.2	1775.9	1775.7	1775.4	1775.2	1774.9	1774.7	1774.4	1774.2	1773.9	1774.7
5°	1818.3	1816.7	1815.2	1813.6	1812.1	1810.5	1809.0	1807.4	1805.9	1804.3	1804.3
7.5°	1853.4	1851.1	1848.7	1846.4	1844.1	1841.7	1839.4	1837.1	1834.7	1832.4	1831.4
10°	1883.8	1880.7	1877.6	1874.5	1871.4	1868.2	1865.1	1862.0	1858.9	1855.8	1853.7
12.5°	1916.6	1913.0	1909.3	1905.7	1902.0	1898.4	1894.7	1891.1	1887.4	1883.8	1880.2
15°	1954.0	1949.8	1945.7	1941.5	1937.4	1933.2	1929.1	1924.9	1920.8	1916.6	1910.1
17.5°	2005.5	1999.8	1994.1	1988.3	1982.6	1976.9	1971.2	1965.4	1959.7	1954.0	1944.1
20°	2061.7	2054.2	2046.6	2039.1	2031.5	2024.0	2016.4	2008.9	2001.3	1993.8	1980.0
22.5°	2113.2	2104.1	2095.0	2085.9	2076.8	2067.7	2058.6	2049.5	2040.4	2031.3	2014.1
25°	2167.0	2157.1	2147.2	2137.4	2127.5	2117.6	2107.7	2097.9	2088.0	2078.1	2057.8
27.5°	2227.8	2216.4	2204.9	2193.5	2182.1	2170.6	2159.2	2147.8	2136.3	2124.9	2101.2
30°	2291.0	2278.3	2265.5	2252.8	2240.1	2227.3	2214.6	2201.9	2189.1	2176.4	2148.6
32.5°	2358.9	2344.1	2329.3	2314.4	2299.6	2284.8	2270.0	2255.1	2240.3	2225.5	2193.8
35°	2443.1	2425.7	2408.3	2390.8	2373.4	2356.0	2338.6	2321.1	2303.7	2286.3	2249.9
37.5°	2543.8	2523.5	2503.2	2482.9	2462.6	2442.4	2422.1	2401.8	2381.5	2361.2	2319.1
40°	2658.4	2635.0	2611.6	2588.2	2564.8	2541.4	2518.0	2494.6	2471.2	2447.8	2398.9
42.5°	2787.1	2760.3	2733.5	2706.8	2680.0	2653.2	2626.4	2599.7	2572.9	2546.1	2489.4
45°	2934.6	2904.4	2874.3	2844.1	2813.9	2783.8	2753.6	2723.4	2693.3	2663.1	2597.6
47.5°	3110.1	3075.5	3040.9	3006.3	2971.7	2937.2	2902.6	2868.0	2833.4	2798.8	2723.1
50°	3299.6	3260.6	3221.6	3182.6	3143.6	3104.6	3065.6	3026.6	2987.6	2948.6	2862.0
52.5°	3498.6	3456.2	3413.8	3371.4	3329.0	3286.7	3244.3	3201.9	3159.5	3117.1	3018.8
55°	3704.5	3659.0	3613.5	3568.0	3522.5	3477.0	3431.5	3386.0	3340.5	3295.0	3185.0
57.5°	3908.1	3860.3	3812.4	3764.6	3716.7	3668.9	3621.0	3573.2	3525.3	3477.5	3356.3
60°	4093.0	4044.6	3996.3	3947.9	3899.5	3851.2	3802.8	3754.4	3706.1	3657.7	3526.1
62.5°	4249.8	4202.0	4154.1	4106.3	4058.4	4010.6	3962.7	3914.9	3867.0	3819.2	3679.8
65°	4364.4	4318.4	4272.4	4226.3	4180.3	4134.3	4088.3	4042.2	3996.2	3950.2	3805.1
67.5°	4434.6	4390.1	4345.7	4301.2	4256.8	4212.3	4167.9	4123.4	4079.0	4034.5	3887.3
70°	4437.0	4395.9	4354.8	4313.7	4272.6	4231.6	4190.5	4149.4	4108.3	4067.2	3920.6
72.5°	4383.1	4343.8	4304.6	4265.3	4226.1	4186.8	4147.6	4108.3	4069.1	4029.8	3887.3
75°	4256.8	4219.6	4182.4	4145.2	4108.0	4070.9	4033.7	3996.5	3959.3	3922.1	3786.4
77.5°	4064.9	4029.5	3994.2	3958.8	3923.4	3888.1	3852.7	3817.3	3782.0	3746.6	3620.2
80°	3819.2	3785.9	3752.6	3719.3	3686.0	3652.8	3619.5	3586.2	3552.9	3519.6	3403.4
82.5°	3540.7	3509.2	3477.8	3446.3	3414.8	3383.4	3351.9	3320.4	3289.0	3257.5	3152.2
85°	3243.5	3214.1	3184.7	3155.3	3125.9	3096.6	3067.2	3037.8	3008.4	2979.0	2884.9
87.5°	2955.6	2927.3	2898.9	2870.6	2842.3	2813.9	2785.6	2757.3	2728.9	2700.6	2616.3
90°	2693.5	2667.0	2640.5	2613.9	2587.4	2560.9	2534.4	2507.8	2481.3	2454.8	2378.4
92.5°	2473.6	2448.9	2424.2	2399.5	2374.8	2350.0	2325.3	2300.6	2275.9	2251.2	2181.3
95°	2291.0	2267.6	2244.2	2220.8	2197.4	2174.0	2150.6	2127.2	2103.8	2080.4	2015.1
97.5°	2138.9	2116.3	2093.7	2071.0	2048.4	2025.8	2003.2	1980.5	1957.9	1935.3	1873.4
100°	2019.6	1997.5	1975.4	1953.3	1931.2	1909.1	1887.0	1864.9	1842.8	1820.7	1759.3
102.5°	1918.9	1896.8	1874.7	1852.6	1830.5	1808.4	1786.3	1764.2	1742.1	1720.0	1660.2
105°	1834.7	1812.6	1790.5	1768.4	1746.3	1724.2	1702.1	1680.0	1657.9	1635.8	1577.0
107.5°	1757.5	1735.7	1713.8	1692.0	1670.1	1648.3	1626.4	1604.6	1582.7	1560.9	1502.9
110°	1680.2	1658.6	1637.0	1615.5	1593.9	1572.3	1550.7	1529.2	1507.6	1486.0	1429.3



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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°	1605.4	1583.6	1561.7	1539.9	1518.0	1496.2	1474.3	1452.5	1430.6	1408.8	1353.9
115°	1523.5	1501.9	1480.3	1458.7	1437.1	1415.6	1394.0	1372.4	1350.8	1329.2	1276.7
117.5°	1436.9	1416.6	1396.3	1376.0	1355.7	1335.5	1315.2	1294.9	1274.6	1254.3	1204.6
120°	1355.0	1335.8	1316.5	1297.3	1278.0	1258.8	1239.5	1220.3	1201.0	1181.8	1133.4
122.5°	1277.7	1259.0	1240.3	1221.5	1202.8	1184.1	1165.4	1146.6	1127.9	1109.2	1061.9
125°	1198.2	1179.7	1161.3	1142.8	1124.3	1105.9	1087.4	1068.9	1050.5	1032.0	986.2
127.5°	1102.2	1084.5	1066.8	1049.2	1031.5	1013.8	996.1	978.5	960.8	943.1	900.7
130°	987.6	972.0	956.4	940.8	925.2	909.5	893.9	878.3	862.7	847.1	809.7
132.5°	877.6	864.3	851.1	837.8	824.5	811.3	798.0	784.7	771.5	758.2	724.7
135°	781.6	770.4	759.2	748.1	736.9	725.7	714.5	703.4	692.2	681.0	650.3
137.5°	697.4	687.0	676.6	666.2	655.8	645.4	635.0	624.6	614.2	603.8	576.0
140°	613.1	603.0	592.8	582.7	572.6	562.4	552.3	542.2	532.0	521.9	497.7
142.5°	524.2	516.1	508.1	500.0	492.0	483.9	475.9	467.8	459.8	451.7	430.4
145°	449.3	442.3	435.3	428.2	421.2	414.2	407.2	400.1	393.1	386.1	367.4
147.5°	379.1	372.9	366.6	360.4	354.1	347.9	341.6	335.4	329.1	322.9	306.8
150°	313.6	308.4	303.2	298.0	292.8	287.6	282.4	277.2	272.0	266.8	252.8
152.5°	255.1	250.4	245.7	241.1	236.4	231.7	227.0	222.4	217.7	213.0	201.0
155°	198.9	195.0	191.1	187.2	183.3	179.4	175.5	171.6	167.7	163.8	153.4
157.5°	145.1	142.0	138.9	135.7	132.6	129.5	126.4	123.2	120.1	117.0	108.7
160°	98.3	95.4	92.6	89.7	86.8	84.0	81.1	78.2	75.4	72.5	67.0
162.5°	53.8	52.2	50.7	49.1	47.6	46.0	44.5	42.9	41.4	39.8	36.4
165°	23.4	22.6	21.8	21.1	20.3	19.5	18.7	18.0	17.2	16.4	14.8
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



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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°	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1
2.5°	1775.5	1776.2	1777.0	1777.8	1778.6	1779.3	1780.1	1780.9	1778.0	1775.2	1772.3
5°	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1799.6	1794.9	1790.2
7.5°	1830.3	1829.3	1828.2	1827.2	1826.1	1825.1	1824.0	1823.0	1816.5	1810.0	1803.5
10°	1851.6	1849.5	1847.4	1845.4	1843.3	1841.2	1839.1	1837.0	1828.4	1819.8	1811.3
12.5°	1876.5	1872.9	1869.3	1865.6	1862.0	1858.4	1854.7	1851.1	1839.9	1828.7	1817.5
15°	1903.6	1897.1	1890.6	1884.1	1877.6	1871.1	1864.6	1858.1	1844.8	1831.6	1818.3
17.5°	1934.2	1924.4	1914.5	1904.6	1894.7	1884.9	1875.0	1865.1	1849.2	1833.4	1817.5
20°	1966.2	1952.5	1938.7	1924.9	1911.1	1897.4	1883.6	1869.8	1850.8	1831.8	1812.9
22.5°	1997.0	1979.8	1962.6	1945.5	1928.3	1911.1	1894.0	1876.8	1854.2	1831.6	1808.9
25°	2037.5	2017.2	1996.9	1976.7	1956.4	1936.1	1915.8	1895.5	1867.4	1839.3	1811.3
27.5°	2077.6	2053.9	2030.2	2006.6	1982.9	1959.2	1935.6	1911.9	1878.4	1844.8	1811.3
30°	2120.8	2092.9	2065.1	2037.3	2009.5	1981.6	1953.8	1926.0	1886.7	1847.5	1808.2
32.5°	2162.1	2130.3	2098.6	2066.9	2035.2	2003.4	1971.7	1940.0	1895.3	1850.6	1805.8
35°	2213.5	2177.1	2140.7	2104.3	2067.9	2031.5	1995.1	1958.7	1908.0	1857.3	1806.6
37.5°	2277.0	2234.8	2192.7	2150.6	2108.5	2066.3	2024.2	1982.1	1925.4	1868.7	1812.1
40°	2350.0	2301.2	2252.3	2203.4	2154.5	2105.7	2056.8	2007.9	1945.2	1882.6	1819.9
42.5°	2432.7	2376.0	2319.3	2262.7	2206.0	2149.3	2092.6	2035.9	1967.0	1898.1	1829.2
45°	2532.1	2466.5	2401.0	2335.5	2270.0	2204.4	2138.9	2073.4	1997.2	1921.0	1844.8
47.5°	2647.5	2571.8	2496.2	2420.5	2344.9	2269.2	2193.6	2117.9	2033.6	1949.4	1865.1
50°	2775.4	2688.8	2602.2	2515.7	2429.1	2342.5	2255.9	2169.3	2076.5	1983.7	1890.8
52.5°	2920.5	2822.2	2723.9	2625.7	2527.4	2429.1	2330.8	2232.5	2129.8	2027.1	1924.4
55°	3075.0	2965.0	2855.0	2745.1	2635.1	2525.1	2415.1	2305.1	2192.0	2078.9	1965.8
57.5°	3235.2	3114.0	2992.8	2871.7	2750.5	2629.3	2508.2	2387.0	2262.4	2137.9	2013.3
60°	3394.6	3263.0	3131.4	2999.9	2868.3	2736.7	2605.2	2473.6	2337.6	2201.6	2065.6
62.5°	3540.4	3401.1	3261.7	3122.3	2982.9	2843.6	2704.2	2564.8	2416.9	2268.9	2121.0
65°	3660.0	3514.9	3369.8	3224.8	3079.7	2934.6	2789.5	2644.4	2485.5	2326.6	2167.8
67.5°	3740.1	3593.0	3445.8	3298.6	3151.4	3004.3	2857.1	2709.9	2541.1	2372.4	2203.6
70°	3773.9	3627.3	3480.6	3334.0	3187.3	3040.7	2894.0	2747.4	2571.6	2395.8	2220.1
72.5°	3744.8	3602.3	3459.8	3317.4	3174.9	3032.4	2889.9	2747.4	2567.7	2388.0	2208.4
75°	3650.7	3514.9	3379.2	3243.5	3107.8	2972.0	2836.3	2700.6	2521.7	2342.8	2163.9
77.5°	3493.9	3367.5	3241.1	3114.8	2988.4	2862.0	2735.7	2609.3	2435.3	2261.4	2087.4
80°	3287.2	3170.9	3054.7	2938.5	2822.3	2706.0	2589.8	2473.6	2308.5	2143.4	1978.3
82.5°	3046.9	2941.6	2836.3	2730.9	2625.6	2520.3	2415.0	2309.7	2155.8	2001.9	1847.9
85°	2790.8	2696.6	2602.5	2508.4	2414.3	2320.1	2226.0	2131.9	1990.4	1849.0	1707.5
87.5°	2532.1	2447.8	2363.6	2279.3	2195.1	2110.8	2026.6	1942.3	1814.4	1686.5	1558.5
90°	2301.9	2225.5	2149.0	2072.6	1996.1	1919.7	1843.2	1766.8	1650.6	1534.4	1418.1
92.5°	2111.3	2041.4	1971.4	1901.5	1831.5	1761.6	1691.6	1621.7	1515.9	1410.1	1304.2
95°	1949.9	1884.6	1819.3	1754.1	1688.8	1623.5	1558.3	1493.0	1395.8	1298.5	1201.3
97.5°	1811.5	1749.7	1687.8	1625.9	1564.0	1502.2	1440.3	1378.4	1287.9	1197.4	1106.9
100°	1698.0	1636.6	1575.2	1513.9	1452.5	1391.1	1329.8	1268.4	1184.9	1101.5	1018.0
102.5°	1600.4	1540.6	1480.8	1421.0	1361.2	1301.4	1241.6	1181.8	1102.8	1023.7	944.7
105°	1518.3	1459.5	1400.7	1342.0	1283.2	1224.4	1165.7	1106.9	1031.5	956.1	880.7
107.5°	1444.9	1386.9	1328.9	1271.0	1213.0	1155.0	1097.0	1039.0	966.7	894.4	822.2
110°	1372.6	1316.0	1259.3	1202.6	1145.9	1089.3	1032.6	975.9	906.5	837.0	767.6



TEST NUMBER: P201396

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-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°	1299.1	1244.2	1189.3	1134.5	1079.6	1024.7	969.9	915.0	849.0	782.9	716.9
115°	1224.2	1171.6	1119.1	1066.6	1014.1	961.5	909.0	856.5	793.3	730.1	666.9
117.5°	1155.0	1105.3	1055.7	1006.0	956.4	906.7	857.1	807.4	746.8	686.2	625.6
120°	1085.1	1036.7	988.3	940.0	891.6	843.2	794.9	746.5	689.8	633.1	576.5
122.5°	1014.6	967.2	919.9	872.6	825.3	777.9	730.6	683.3	631.0	578.8	526.5
125°	940.5	894.7	848.9	803.2	757.4	711.6	665.9	620.1	572.0	523.9	475.8
127.5°	858.3	815.9	773.5	731.2	688.8	646.4	604.0	561.6	517.4	473.2	429.0
130°	772.2	734.8	697.4	659.9	622.5	585.1	547.6	510.2	469.4	428.6	387.7
132.5°	691.1	657.6	624.0	590.5	556.9	523.4	489.8	456.3	418.9	381.4	344.0
135°	619.6	588.9	558.2	527.6	496.9	466.2	435.5	404.8	371.0	337.2	303.4
137.5°	548.2	520.3	492.5	464.7	436.9	409.0	381.2	353.4	323.0	292.6	262.1
140°	473.5	449.3	425.1	401.0	376.8	352.6	328.4	304.2	276.9	249.6	222.3
142.5°	409.1	387.7	366.4	345.1	323.8	302.4	281.1	259.8	235.6	211.4	187.2
145°	348.7	329.9	311.2	292.5	273.8	255.0	236.3	217.6	196.5	175.5	154.4
147.5°	290.7	274.6	258.5	242.3	226.2	210.1	194.0	177.9	160.0	142.0	124.1
150°	238.7	224.7	210.6	196.6	182.5	168.5	154.4	140.4	125.8	111.3	96.7
152.5°	189.1	177.1	165.1	153.2	141.2	129.2	117.3	105.3	94.1	82.9	71.8
155°	143.0	132.6	122.2	111.8	101.4	91.0	80.6	70.2	62.7	55.1	47.6
157.5°	100.4	92.0	83.7	75.4	67.1	58.7	50.4	42.1	37.4	32.7	28.1
160°	61.6	56.1	50.7	45.2	39.8	34.3	28.9	23.4	20.8	18.2	15.6
162.5°	33.0	29.7	26.3	22.9	19.5	16.2	12.8	9.4	8.4	7.3	6.3
165°	13.3	11.7	10.1	8.6	7.0	5.4	3.9	2.3	2.0	1.8	1.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201396

CATALOG NUMBER: 8LBLELD4-14-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1
2.5°	1769.4	1766.6	1763.7	1760.8	1758.0	1755.1	1756.7	1758.2	1759.8	1761.4	1762.9
5°	1785.5	1780.9	1776.2	1771.5	1766.8	1762.1	1761.8	1761.6	1761.3	1761.1	1760.8
7.5°	1797.0	1790.5	1784.0	1777.5	1771.0	1764.5	1762.4	1760.3	1758.3	1756.2	1754.1
10°	1802.7	1794.1	1785.5	1777.0	1768.4	1759.8	1755.9	1752.0	1748.1	1744.2	1740.3
12.5°	1806.3	1795.2	1784.0	1772.8	1761.6	1750.4	1744.7	1739.0	1733.3	1727.6	1721.8
15°	1805.0	1791.8	1778.5	1765.2	1752.0	1738.7	1730.6	1722.6	1714.5	1706.5	1698.4
17.5°	1801.7	1785.8	1770.0	1754.1	1738.3	1722.4	1712.3	1702.1	1692.0	1681.8	1671.7
20°	1793.9	1774.9	1755.9	1737.0	1718.0	1699.0	1686.8	1674.6	1662.3	1650.1	1637.9
22.5°	1786.3	1763.7	1741.1	1718.4	1695.8	1673.2	1658.4	1643.6	1628.7	1613.9	1599.1
25°	1783.2	1755.1	1727.0	1699.0	1670.9	1642.8	1625.6	1608.5	1591.3	1574.1	1557.0
27.5°	1777.7	1744.2	1710.6	1677.1	1643.5	1610.0	1590.0	1570.0	1549.9	1529.9	1509.9
30°	1768.9	1729.7	1690.4	1651.1	1611.9	1572.6	1550.2	1527.9	1505.5	1483.1	1460.8
32.5°	1761.1	1716.4	1671.7	1626.9	1582.2	1537.5	1511.8	1486.0	1460.3	1434.5	1408.8
35°	1755.9	1705.2	1654.5	1603.8	1553.1	1502.4	1473.3	1444.2	1415.0	1385.9	1356.8
37.5°	1755.4	1698.7	1642.0	1585.4	1528.7	1472.0	1438.5	1404.9	1371.4	1337.8	1304.3
40°	1757.2	1694.6	1631.9	1569.2	1506.6	1443.9	1405.9	1368.0	1330.0	1292.0	1254.1
42.5°	1760.3	1691.4	1622.5	1553.6	1484.7	1415.8	1373.2	1330.5	1287.9	1245.2	1202.6
45°	1768.6	1692.5	1616.3	1540.1	1463.9	1387.7	1340.1	1292.5	1245.0	1197.4	1149.8
47.5°	1780.9	1696.6	1612.4	1528.1	1443.9	1359.6	1307.3	1255.1	1202.8	1150.6	1098.3
50°	1798.0	1705.2	1612.4	1519.5	1426.7	1333.9	1276.2	1218.5	1160.7	1103.0	1045.3
52.5°	1821.7	1719.0	1616.3	1513.6	1410.9	1308.2	1246.6	1184.9	1123.3	1061.7	1000.0
55°	1852.7	1739.5	1626.4	1513.3	1400.2	1287.1	1220.0	1152.9	1085.8	1018.7	951.7
57.5°	1888.8	1764.2	1639.7	1515.1	1390.6	1266.0	1194.0	1122.0	1049.9	977.9	905.9
60°	1929.6	1793.7	1657.7	1521.7	1385.7	1249.7	1171.2	1092.6	1014.1	935.6	857.0
62.5°	1973.0	1825.1	1677.1	1529.2	1381.2	1233.3	1150.4	1067.4	984.5	901.5	818.6
65°	2008.9	1850.0	1691.1	1532.3	1373.4	1214.5	1126.9	1039.3	951.6	864.0	776.4
67.5°	2034.9	1866.1	1697.4	1528.6	1359.9	1191.1	1099.8	1008.6	917.3	826.0	734.8
70°	2044.3	1868.5	1692.7	1517.0	1341.2	1165.4	1071.0	976.6	882.2	787.8	693.5
72.5°	2028.7	1849.0	1669.3	1489.7	1310.0	1130.3	1033.8	937.4	840.9	744.4	648.0
75°	1985.0	1806.1	1627.2	1448.3	1269.4	1090.5	993.0	895.5	798.0	700.5	603.0
77.5°	1913.5	1739.5	1565.6	1391.6	1217.7	1043.7	946.2	848.7	751.2	653.7	556.2
80°	1813.2	1648.0	1482.9	1317.8	1152.7	987.6	891.4	795.2	699.0	602.8	506.5
82.5°	1694.0	1540.1	1386.2	1232.2	1078.3	924.4	830.8	737.2	643.6	550.0	456.3
85°	1566.1	1424.6	1283.2	1141.7	1000.3	858.8	768.8	678.9	588.9	498.9	409.0
87.5°	1430.6	1302.7	1174.8	1046.8	918.9	791.0	705.2	619.4	533.6	447.8	361.9
90°	1301.9	1185.7	1069.5	953.2	837.0	720.8	640.7	560.6	480.5	400.4	320.4
92.5°	1198.4	1092.6	986.8	880.9	775.1	669.3	594.9	520.6	446.2	371.8	297.5
95°	1104.0	1006.8	909.5	812.3	715.0	617.8	549.2	480.5	411.9	343.2	274.6
97.5°	1016.4	926.0	835.5	745.0	654.5	564.0	501.3	438.7	376.0	313.3	250.7
100°	934.5	851.1	767.6	684.1	600.7	517.2	459.7	402.3	344.8	287.3	229.9
102.5°	865.6	786.6	707.5	628.5	549.4	470.4	418.1	365.9	313.6	261.3	209.1
105°	805.3	729.9	654.5	579.1	503.7	428.3	380.7	333.1	285.5	237.9	190.4
107.5°	749.9	677.6	605.3	533.1	460.8	388.5	345.3	302.2	259.0	215.8	172.7
110°	698.2	628.7	559.3	489.9	420.4	351.0	312.0	273.0	234.0	195.0	156.0



TEST NUMBER: P201396

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-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°	650.8	584.8	518.7	452.7	386.6	320.6	285.0	249.4	213.7	178.1	142.5
115°	603.7	540.6	477.4	414.2	351.0	287.8	255.8	223.8	191.9	159.9	127.9
117.5°	565.0	504.5	443.9	383.3	322.7	262.1	233.0	203.9	174.7	145.6	116.5
120°	519.8	463.1	406.4	349.8	293.1	236.4	210.1	183.9	157.6	131.3	105.1
122.5°	474.3	422.0	369.8	317.5	265.3	213.0	189.3	165.7	142.0	118.3	94.7
125°	427.7	379.6	331.5	283.4	235.3	187.2	166.4	145.6	124.8	104.0	83.2
127.5°	384.8	340.6	296.4	252.2	208.0	163.8	145.6	127.4	109.2	91.0	72.8
130°	346.9	306.1	265.3	224.4	183.6	142.8	126.9	111.1	95.2	79.3	63.5
132.5°	306.5	269.1	231.6	194.2	156.7	119.3	106.0	92.8	79.5	66.3	53.0
135°	269.6	235.8	202.0	168.2	134.4	100.6	89.4	78.2	67.1	55.9	44.7
137.5°	231.7	201.3	170.9	140.4	110.0	79.6	70.8	61.9	53.1	44.2	35.4
140°	195.0	167.7	140.4	113.1	85.8	58.5	52.0	45.5	39.0	32.5	26.0
142.5°	163.0	138.9	114.7	90.5	66.3	42.1	37.4	32.7	28.1	23.4	18.7
145°	133.4	112.3	91.3	70.2	49.2	28.1	25.0	21.9	18.7	15.6	12.5
147.5°	106.1	88.2	70.2	52.3	34.3	16.4	14.6	12.8	10.9	9.1	7.3
150°	82.2	67.6	53.1	38.5	24.0	9.4	8.4	7.3	6.3	5.2	4.2
152.5°	60.6	49.4	38.2	27.1	15.9	4.7	4.2	3.7	3.1	2.6	2.1
155°	40.0	32.5	24.9	17.4	9.8	2.3	2.0	1.8	1.5	1.3	1.0
157.5°	23.4	18.7	14.0	9.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0
160°	13.0	10.4	7.8	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	5.2	4.2	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.3	1.0	0.8	0.5	0.3	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: P201396

CATALOG NUMBER: 8LBLELD4-14-ASYMF-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°	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1
2.5°	1764.5	1766.1	1767.6	1769.2	1765.3	1761.4	1757.5	1753.6	1749.7	1745.8	1741.9
5°	1760.6	1760.3	1760.1	1759.8	1754.9	1749.9	1745.0	1740.0	1735.1	1730.1	1725.2
7.5°	1752.0	1750.0	1747.9	1745.8	1739.6	1733.3	1727.1	1720.8	1714.6	1708.3	1702.1
10°	1736.4	1732.5	1728.6	1724.7	1717.7	1710.7	1703.6	1696.6	1689.6	1682.6	1675.5
12.5°	1716.1	1710.4	1704.7	1699.0	1690.9	1682.9	1674.8	1666.7	1658.7	1650.6	1642.5
15°	1690.4	1682.3	1674.3	1666.2	1657.9	1649.6	1641.2	1632.9	1624.6	1616.3	1607.9
17.5°	1661.5	1651.4	1641.2	1631.1	1622.5	1613.9	1605.4	1596.8	1588.2	1579.6	1571.1
20°	1625.7	1613.4	1601.2	1589.0	1580.2	1571.3	1562.5	1553.6	1544.8	1535.9	1527.1
22.5°	1584.3	1569.4	1554.6	1539.8	1531.5	1523.2	1514.8	1506.5	1498.2	1489.9	1481.5
25°	1539.8	1522.6	1505.5	1488.3	1480.5	1472.7	1464.9	1457.1	1449.3	1441.5	1433.7
27.5°	1489.9	1469.8	1449.8	1429.8	1423.0	1416.3	1409.5	1402.8	1396.0	1389.3	1382.5
30°	1438.4	1416.0	1393.7	1371.3	1365.1	1358.8	1352.6	1346.4	1340.1	1333.9	1327.7
32.5°	1383.0	1357.3	1331.5	1305.8	1301.4	1297.0	1292.5	1288.1	1283.7	1279.3	1274.8
35°	1327.7	1298.5	1269.4	1240.3	1238.0	1235.6	1233.3	1230.9	1228.6	1226.2	1223.9
37.5°	1270.7	1237.2	1203.6	1170.1	1170.6	1171.1	1171.7	1172.2	1172.7	1173.2	1173.8
40°	1216.1	1178.1	1140.2	1102.2	1106.1	1110.0	1113.9	1117.8	1121.7	1125.6	1129.5
42.5°	1159.9	1117.3	1074.6	1032.0	1040.1	1048.1	1056.2	1064.3	1072.3	1080.4	1088.5
45°	1102.2	1054.7	1007.1	959.5	972.0	984.5	996.9	1009.4	1021.9	1034.4	1046.8
47.5°	1046.1	993.8	941.6	889.3	905.9	922.6	939.2	955.8	972.5	989.1	1005.7
50°	987.6	929.8	872.1	814.4	836.0	857.6	879.1	900.7	922.3	943.9	965.4
52.5°	938.4	876.8	815.1	753.5	779.0	804.5	830.0	855.5	880.9	906.4	931.9
55°	884.6	817.5	750.4	683.3	713.5	743.6	773.8	804.0	834.1	864.3	894.5
57.5°	833.9	761.8	689.8	617.8	652.9	688.0	723.1	758.2	793.3	828.4	863.5
60°	778.5	700.0	621.4	542.9	583.5	624.0	664.6	705.2	745.7	786.3	826.9
62.5°	735.6	652.7	569.7	486.8	531.0	575.2	619.4	663.6	707.8	752.0	796.2
65°	688.8	601.1	513.5	425.9	474.0	522.1	570.2	618.3	666.4	714.5	762.6
67.5°	643.5	552.2	461.0	369.7	421.2	472.7	524.2	575.7	627.1	678.6	730.1
70°	599.1	504.7	410.3	315.9	370.0	424.1	478.2	532.3	586.3	640.4	694.5
72.5°	551.5	455.0	358.6	262.1	318.0	373.9	429.8	485.7	541.6	597.5	653.4
75°	505.5	408.0	310.5	213.0	269.9	326.9	383.8	440.8	497.7	554.7	611.6
77.5°	458.7	361.2	263.7	166.2	223.7	281.1	338.6	396.0	453.5	510.9	568.4
80°	410.3	314.1	217.9	121.7	178.9	236.1	293.3	350.5	407.7	464.9	522.1
82.5°	362.7	269.1	175.5	81.9	138.1	194.2	250.4	306.6	362.7	418.9	475.1
85°	319.0	229.0	139.1	49.1	102.7	156.2	209.8	263.4	316.9	370.5	424.1
87.5°	276.1	190.3	104.5	18.7	70.4	122.2	173.9	225.7	277.4	329.2	380.9
90°	240.3	160.2	80.1	0.0	48.6	97.2	145.9	194.5	243.1	291.7	340.4
92.5°	223.1	148.7	74.4	0.0	45.2	90.5	135.7	181.0	226.2	271.5	316.7
95°	205.9	137.3	68.6	0.0	42.1	84.2	126.4	168.5	210.6	252.7	294.9
97.5°	188.0	125.3	62.7	0.0	38.7	77.5	116.2	155.0	193.7	232.5	271.2
100°	172.4	114.9	57.5	0.0	35.9	71.8	107.6	143.5	179.4	215.3	251.1
102.5°	156.8	104.5	52.3	0.0	33.0	66.0	99.1	132.1	165.1	198.1	231.2
105°	142.8	95.2	47.6	0.0	30.2	60.3	90.5	120.7	150.8	181.0	211.2
107.5°	129.5	86.3	43.2	0.0	27.6	55.1	82.7	110.3	137.8	165.4	193.0
110°	117.0	78.0	39.0	0.0	25.2	50.4	75.7	100.9	126.1	151.3	176.6



TEST NUMBER: P201396

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-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°	106.9	71.2	35.6	0.0	22.9	45.8	68.6	91.5	114.4	137.3	160.1
115°	95.9	64.0	32.0	0.0	20.3	40.6	60.8	81.1	101.4	121.7	141.9
117.5°	87.4	58.2	29.1	0.0	18.2	36.4	54.6	72.8	91.0	109.2	127.4
120°	78.8	52.5	26.3	0.0	16.4	32.8	49.1	65.5	81.9	98.3	114.6
122.5°	71.0	47.3	23.7	0.0	14.6	29.1	43.7	58.2	72.8	87.3	101.9
125°	62.4	41.6	20.8	0.0	13.0	26.0	39.0	52.0	65.0	78.0	91.0
127.5°	54.6	36.4	18.2	0.0	11.2	22.4	33.5	44.7	55.9	67.1	78.2
130°	47.6	31.7	15.9	0.0	9.4	18.7	28.1	37.4	46.8	56.1	65.5
132.5°	39.8	26.5	13.3	0.0	7.8	15.6	23.4	31.2	39.0	46.8	54.6
135°	33.5	22.4	11.2	0.0	6.2	12.5	18.7	25.0	31.2	37.5	43.7
137.5°	26.5	17.7	8.8	0.0	4.7	9.4	14.0	18.7	23.4	28.1	32.7
140°	19.5	13.0	6.5	0.0	3.4	6.8	10.1	13.5	16.9	20.3	23.6
142.5°	14.0	9.4	4.7	0.0	2.1	4.2	6.2	8.3	10.4	12.5	14.5
145°	9.4	6.2	3.1	0.0	1.3	2.6	3.9	5.2	6.5	7.8	9.1
147.5°	5.5	3.6	1.8	0.0	1.0	2.1	3.1	4.2	5.2	6.3	7.3
150°	3.1	2.1	1.0	0.0	0.8	1.6	2.3	3.1	3.9	4.7	5.4
152.5°	1.6	1.0	0.5	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.7
155°	0.8	0.5	0.3	0.0	0.3	0.5	0.8	1.0	1.3	1.5	1.8
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: P201396

CATALOG NUMBER: 8LBLELD4-14-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1
2.5°	1738.0	1734.1	1733.1	1732.0	1731.0	1729.9	1728.9	1727.8	1726.8	1725.7	1724.7
5°	1720.2	1715.3	1713.2	1711.1	1709.1	1707.0	1704.9	1702.8	1700.8	1698.7	1696.6
7.5°	1695.8	1689.6	1687.3	1684.9	1682.6	1680.2	1677.9	1675.5	1673.2	1670.8	1668.5
10°	1668.5	1661.5	1658.9	1656.3	1653.7	1651.1	1648.5	1645.9	1643.3	1640.7	1638.1
12.5°	1634.5	1626.4	1624.1	1621.7	1619.4	1617.1	1614.7	1612.4	1610.1	1607.7	1605.4
15°	1599.6	1591.3	1589.5	1587.7	1585.8	1584.0	1582.2	1580.4	1578.5	1576.7	1574.9
17.5°	1562.5	1553.9	1552.9	1551.8	1550.8	1549.7	1548.7	1547.6	1546.6	1545.5	1544.5
20°	1518.2	1509.4	1510.4	1511.5	1512.5	1513.6	1514.6	1515.7	1516.7	1517.8	1518.8
22.5°	1473.2	1464.9	1468.8	1472.7	1476.6	1480.5	1484.5	1488.4	1492.3	1496.2	1500.1
25°	1425.9	1418.1	1426.2	1434.2	1442.3	1450.4	1458.4	1466.5	1474.6	1482.6	1490.7
27.5°	1375.8	1369.0	1382.5	1396.0	1409.6	1423.1	1436.6	1450.1	1463.7	1477.2	1490.7
30°	1321.4	1315.2	1334.4	1353.7	1372.9	1392.1	1411.4	1430.6	1449.8	1469.1	1488.3
32.5°	1270.4	1266.0	1290.4	1314.9	1339.3	1363.8	1388.2	1412.7	1437.1	1461.6	1486.0
35°	1221.5	1219.2	1248.6	1278.0	1307.4	1336.8	1366.1	1395.5	1424.9	1454.3	1483.7
37.5°	1174.3	1174.8	1209.1	1243.4	1277.8	1312.1	1346.4	1380.7	1415.1	1449.4	1483.7
40°	1133.4	1137.3	1176.3	1215.3	1254.3	1293.3	1332.3	1371.3	1410.3	1449.3	1488.3
42.5°	1096.5	1104.6	1148.0	1191.4	1234.9	1278.3	1321.7	1365.1	1408.6	1452.0	1495.4
45°	1059.3	1071.8	1120.4	1169.0	1217.7	1266.3	1314.9	1363.5	1412.2	1460.8	1509.4
47.5°	1022.4	1039.0	1093.3	1147.7	1202.0	1256.4	1310.7	1365.1	1419.4	1473.8	1528.1
50°	987.0	1008.6	1069.2	1129.8	1190.4	1251.0	1311.5	1372.1	1432.7	1493.3	1553.9
52.5°	957.4	982.9	1050.0	1117.1	1184.1	1251.2	1318.3	1385.4	1452.4	1519.5	1586.6
55°	924.6	954.8	1029.4	1104.0	1178.7	1253.3	1327.9	1402.5	1477.2	1551.8	1626.4
57.5°	898.6	933.7	1016.1	1098.6	1181.0	1263.4	1345.9	1428.3	1510.7	1593.2	1675.6
60°	867.4	908.0	999.3	1090.5	1181.8	1273.1	1364.3	1455.6	1546.9	1638.1	1729.4
62.5°	840.4	884.6	984.4	1084.3	1184.1	1284.0	1383.8	1483.7	1583.5	1683.4	1783.2
65°	810.7	858.8	967.0	1075.2	1183.3	1291.5	1399.7	1507.9	1616.0	1724.2	1832.4
67.5°	781.6	833.1	948.0	1063.0	1177.9	1292.8	1407.8	1522.7	1637.6	1752.6	1867.5
70°	748.6	802.7	922.6	1042.4	1162.3	1282.2	1402.0	1521.9	1641.8	1761.6	1881.5
72.5°	709.3	765.2	887.4	1009.6	1131.8	1254.0	1376.3	1498.5	1620.7	1742.9	1865.1
75°	668.6	725.5	846.7	967.8	1089.0	1210.2	1331.3	1452.5	1573.7	1694.8	1816.0
77.5°	625.8	683.3	800.1	916.8	1033.6	1150.3	1267.1	1383.8	1500.6	1617.3	1734.1
80°	579.3	636.5	746.2	856.0	965.7	1075.4	1185.2	1294.9	1404.6	1514.4	1624.1
82.5°	531.2	587.4	688.8	790.2	891.6	993.0	1094.5	1195.9	1297.3	1398.7	1500.1
85°	477.6	531.2	624.3	717.4	810.5	903.6	996.6	1089.7	1182.8	1275.9	1369.0
87.5°	432.7	484.4	567.6	650.8	734.0	817.2	900.5	983.7	1066.9	1150.1	1233.3
90°	389.0	437.6	512.2	586.8	661.5	736.1	810.7	885.3	960.0	1034.6	1109.2
92.5°	362.0	407.2	474.5	541.9	609.2	676.6	743.9	811.3	878.6	946.0	1013.3
95°	337.0	379.1	441.0	502.9	564.8	626.7	688.5	750.4	812.3	874.2	936.1
97.5°	310.0	348.7	406.4	464.1	521.9	579.6	637.3	695.0	752.8	810.5	868.2
100°	287.0	322.9	377.0	431.1	485.2	539.3	593.3	647.4	701.5	755.6	809.7
102.5°	264.2	297.2	348.7	400.2	451.7	503.2	554.6	606.1	657.6	709.1	760.6
105°	241.3	271.5	320.9	370.3	419.7	469.1	518.5	567.9	617.3	666.7	716.1
107.5°	220.5	248.1	295.7	343.3	390.8	438.4	486.0	533.6	581.1	628.7	676.3
110°	201.8	227.0	272.8	318.5	364.3	410.1	455.8	501.6	547.4	593.1	638.9



TEST NUMBER: P201396

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-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°	183.0	205.9	249.8	293.8	337.7	381.7	425.6	469.6	513.5	557.5	601.4
115°	162.2	182.5	224.1	265.7	307.3	348.9	390.6	432.2	473.8	515.4	557.0
117.5°	145.6	163.8	203.3	242.8	282.4	321.9	361.4	400.9	440.5	480.0	519.5
120°	131.0	147.4	184.3	221.2	258.2	295.1	332.0	368.9	405.9	442.8	479.7
122.5°	116.4	131.0	165.3	199.7	234.0	268.3	302.7	337.0	371.3	405.7	440.0
125°	104.0	117.0	148.5	179.9	211.4	242.9	274.3	305.8	337.3	368.7	400.2
127.5°	89.4	100.6	128.9	157.3	185.6	214.0	242.3	270.7	299.0	327.4	355.7
130°	74.8	84.2	108.9	133.6	158.3	183.0	207.8	232.5	257.2	281.9	306.6
132.5°	62.4	70.2	91.0	111.8	132.6	153.4	174.2	195.0	215.8	236.6	257.4
135°	50.0	56.2	74.4	92.6	110.8	129.0	147.2	165.4	183.6	201.8	220.0
137.5°	37.4	42.1	58.0	73.8	89.7	105.6	121.4	137.3	153.2	169.0	184.9
140°	27.0	30.4	44.2	58.0	71.8	85.6	99.3	113.1	126.9	140.7	154.5
142.5°	16.6	18.7	30.7	42.6	54.6	66.6	78.5	90.5	102.5	114.4	126.4
145°	10.4	11.7	21.6	31.5	41.3	51.2	61.1	71.0	80.8	90.7	100.6
147.5°	8.4	9.4	17.2	25.0	32.8	40.6	48.4	56.2	64.0	71.8	79.6
150°	6.2	7.0	13.0	19.0	24.9	30.9	36.9	42.9	48.8	54.8	60.8
152.5°	4.2	4.7	9.1	13.5	18.0	22.4	26.8	31.2	35.7	40.1	44.5
155°	2.0	2.3	5.2	8.0	10.9	13.8	16.6	19.5	22.4	25.2	28.1
157.5°	0.0	0.0	1.6	3.1	4.7	6.2	7.8	9.3	10.9	12.4	14.0
160°	0.0	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.7	4.2	4.7
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: P201396

CATALOG NUMBER: 8LBLELD4-14-ASYMF-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°	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1
2.5°	1723.4	1722.1	1720.8	1719.5	1718.2	1716.9	1715.6	1714.3	1713.0	1711.2	1709.4
5°	1694.8	1693.0	1691.1	1689.3	1687.5	1685.7	1683.8	1682.0	1680.2	1679.4	1678.6
7.5°	1666.4	1664.3	1662.3	1660.2	1658.1	1656.0	1654.0	1651.9	1649.8	1649.5	1649.3
10°	1636.5	1635.0	1633.4	1631.9	1630.3	1628.8	1627.2	1625.7	1624.1	1623.3	1622.5
12.5°	1604.6	1603.8	1603.0	1602.2	1601.5	1600.7	1599.9	1599.1	1598.3	1598.0	1597.8
15°	1575.2	1575.4	1575.7	1576.0	1576.2	1576.5	1576.8	1577.0	1577.3	1578.1	1578.9
17.5°	1547.4	1550.2	1553.1	1556.0	1558.8	1561.7	1564.6	1567.4	1570.3	1572.4	1574.5
20°	1525.3	1531.8	1538.3	1544.8	1551.3	1557.8	1564.3	1570.8	1577.3	1580.9	1584.6
22.5°	1510.5	1520.9	1531.3	1541.7	1552.1	1562.5	1572.9	1583.3	1593.7	1597.9	1602.0
25°	1504.0	1517.2	1530.5	1543.7	1557.0	1570.2	1583.5	1596.7	1610.0	1614.7	1619.4
27.5°	1505.8	1520.9	1535.9	1551.0	1566.1	1581.2	1596.2	1611.3	1626.4	1631.9	1637.3
30°	1505.5	1522.6	1539.8	1557.0	1574.1	1591.3	1608.5	1625.6	1642.8	1649.6	1656.3
32.5°	1505.8	1525.5	1545.3	1565.1	1584.8	1604.6	1624.4	1644.1	1663.9	1672.2	1680.5
35°	1506.6	1529.5	1552.3	1575.2	1598.1	1621.0	1643.8	1666.7	1689.6	1699.7	1709.9
37.5°	1510.5	1537.3	1564.0	1590.8	1617.6	1644.4	1671.1	1697.9	1724.7	1736.7	1748.6
40°	1519.2	1550.2	1581.1	1612.1	1643.0	1674.0	1704.9	1735.9	1766.8	1781.4	1795.9
42.5°	1531.5	1567.7	1603.8	1640.0	1676.1	1712.3	1748.4	1784.6	1820.7	1838.1	1855.5
45°	1551.3	1593.1	1635.0	1676.9	1718.7	1760.6	1802.5	1844.3	1886.2	1906.5	1926.8
47.5°	1576.7	1625.3	1674.0	1722.6	1771.2	1819.8	1868.5	1917.1	1965.7	1989.1	2012.5
50°	1610.3	1666.7	1723.2	1779.6	1836.0	1892.4	1948.9	2005.3	2061.7	2088.5	2115.3
52.5°	1651.1	1715.6	1780.1	1844.6	1909.0	1973.5	2038.0	2102.5	2167.0	2196.9	2226.8
55°	1699.7	1773.0	1846.4	1919.7	1993.0	2066.3	2139.7	2213.0	2286.3	2318.8	2351.3
57.5°	1757.0	1838.4	1919.7	2001.1	2082.5	2163.9	2245.2	2326.6	2408.0	2443.1	2478.2
60°	1818.3	1907.2	1996.2	2085.1	2174.0	2262.9	2351.9	2440.8	2529.7	2565.8	2602.0
62.5°	1878.6	1974.1	2069.5	2164.9	2260.4	2355.8	2451.2	2546.7	2642.1	2678.0	2713.9
65°	1932.5	2032.6	2132.7	2232.8	2332.9	2433.0	2533.1	2633.2	2733.3	2768.7	2804.0
67.5°	1969.9	2072.4	2174.8	2277.3	2379.7	2482.2	2584.6	2687.1	2789.5	2823.3	2857.1
70°	1983.7	2085.9	2188.1	2290.3	2392.4	2494.6	2596.8	2699.0	2801.2	2832.9	2864.6
72.5°	1964.9	2064.8	2164.6	2264.5	2364.3	2464.2	2564.0	2663.9	2763.7	2792.8	2821.9
75°	1910.9	2005.8	2100.7	2195.6	2290.5	2385.4	2480.3	2575.2	2670.1	2696.6	2723.1
77.5°	1822.2	1910.4	1998.5	2086.7	2174.8	2263.0	2351.1	2439.3	2527.4	2551.8	2576.3
80°	1704.2	1784.3	1864.4	1944.5	2024.5	2104.6	2184.7	2264.8	2344.9	2367.0	2389.1
82.5°	1571.6	1643.1	1714.6	1786.1	1857.6	1929.1	2000.6	2072.1	2143.6	2163.4	2183.1
85°	1432.2	1495.4	1558.6	1621.8	1684.9	1748.1	1811.3	1874.5	1937.7	1955.1	1972.5
87.5°	1288.7	1344.1	1399.4	1454.8	1510.2	1565.6	1620.9	1676.3	1731.7	1747.6	1763.4
90°	1158.1	1207.0	1255.9	1304.8	1353.6	1402.5	1451.4	1500.3	1549.2	1563.8	1578.3
92.5°	1057.2	1101.2	1145.1	1189.1	1233.0	1277.0	1320.9	1364.9	1408.8	1422.1	1435.3
95°	976.1	1016.2	1056.2	1096.3	1136.3	1176.4	1216.4	1256.5	1296.5	1308.7	1320.9
97.5°	905.9	943.6	981.3	1019.0	1056.7	1094.4	1132.1	1169.8	1207.5	1219.2	1230.9
100°	845.8	882.0	918.1	954.3	990.4	1026.6	1062.7	1098.9	1135.0	1146.4	1157.9
102.5°	795.7	830.8	865.9	901.0	936.1	971.2	1006.3	1041.4	1076.5	1087.7	1098.9
105°	750.7	785.3	819.8	854.4	889.0	923.6	958.1	992.7	1027.3	1038.5	1049.7
107.5°	710.9	745.5	780.1	814.7	849.2	883.8	918.4	953.0	987.6	998.8	1010.0
110°	673.0	707.0	741.1	775.1	809.2	843.2	877.3	911.3	945.4	957.1	968.8



TEST NUMBER: P201396

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-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°	635.7	670.0	704.4	738.7	773.0	807.3	841.7	876.0	910.3	922.3	934.2
115°	591.8	626.7	661.5	696.3	731.2	766.0	800.8	835.7	870.5	883.0	895.5
117.5°	553.8	588.1	622.5	656.8	691.1	725.4	759.8	794.1	828.4	841.1	853.9
120°	513.2	546.8	580.3	613.9	647.4	681.0	714.5	748.1	781.6	794.6	807.6
122.5°	472.0	504.0	535.9	567.9	599.9	631.9	663.8	695.8	727.8	741.1	754.3
125°	430.4	460.5	490.7	520.8	551.0	581.1	611.3	641.4	671.6	684.6	697.6
127.5°	384.3	412.9	441.5	470.1	498.7	527.3	555.9	584.5	613.1	625.3	637.5
130°	333.4	360.2	386.9	413.7	440.5	467.3	494.0	520.8	547.6	559.6	571.5
132.5°	283.4	309.4	335.4	361.4	387.4	413.4	439.4	465.4	491.4	502.1	512.7
135°	243.7	267.3	291.0	314.6	338.3	361.9	385.6	409.2	432.9	442.3	451.6
137.5°	205.2	225.5	245.7	266.0	286.3	306.6	326.8	347.1	367.4	377.0	386.6
140°	170.6	186.7	202.8	218.9	235.1	251.2	267.3	283.4	299.5	309.4	319.3
142.5°	140.2	154.0	167.7	181.5	195.3	209.1	222.8	236.6	250.4	258.5	266.5
145°	112.3	124.0	135.7	147.4	159.1	170.8	182.5	194.2	205.9	213.7	221.5
147.5°	89.2	98.8	108.5	118.1	127.7	137.3	147.0	156.6	166.2	173.5	180.8
150°	68.6	76.4	84.2	92.0	99.8	107.6	115.4	123.2	131.0	138.0	145.0
152.5°	50.5	56.5	62.4	68.4	74.4	80.4	86.3	92.3	98.3	104.8	111.3
155°	33.0	38.0	42.9	47.8	52.8	57.7	62.6	67.6	72.5	78.5	84.5
157.5°	17.9	21.8	25.7	29.6	33.5	37.4	41.3	45.2	49.1	54.3	59.5
160°	7.6	10.4	13.3	16.1	19.0	21.8	24.7	27.5	30.4	34.8	39.2
162.5°	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10.4	11.7	15.1	18.5
165°	0.3	0.5	0.8	1.0	1.3	1.5	1.8	2.0	2.3	4.4	6.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201396

CATALOG NUMBER: 8LBLELD4-14-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1
2.5°	1707.5	1705.7	1703.9	1702.1	1700.2	1698.4	1696.6	1698.2	1699.7	1701.3	1702.9
5°	1677.9	1677.1	1676.3	1675.5	1674.8	1674.0	1673.2	1674.0	1674.8	1675.5	1676.3
7.5°	1649.0	1648.8	1648.5	1648.3	1648.0	1647.8	1647.5	1647.8	1648.0	1648.3	1648.5
10°	1621.8	1621.0	1620.2	1619.4	1618.7	1617.9	1617.1	1617.4	1617.6	1617.9	1618.1
12.5°	1597.5	1597.3	1597.0	1596.8	1596.5	1596.3	1596.0	1595.7	1595.5	1595.2	1595.0
15°	1579.6	1580.4	1581.2	1582.0	1582.7	1583.5	1584.3	1583.5	1582.7	1582.0	1581.2
17.5°	1576.5	1578.6	1580.7	1582.8	1584.8	1586.9	1589.0	1586.9	1584.8	1582.8	1580.7
20°	1588.2	1591.8	1595.5	1599.1	1602.7	1606.4	1610.0	1605.8	1601.7	1597.5	1593.4
22.5°	1606.2	1610.3	1614.5	1618.6	1622.8	1626.9	1631.1	1625.9	1620.7	1615.5	1610.3
25°	1624.1	1628.8	1633.4	1638.1	1642.8	1647.5	1652.2	1646.7	1641.3	1635.8	1630.3
27.5°	1642.8	1648.3	1653.7	1659.2	1664.7	1670.1	1675.6	1669.4	1663.1	1656.9	1650.6
30°	1663.1	1669.8	1676.6	1683.3	1690.1	1696.8	1703.6	1696.3	1689.0	1681.8	1674.5
32.5°	1688.8	1697.1	1705.5	1713.8	1722.1	1730.4	1738.7	1730.1	1721.5	1713.0	1704.4
35°	1720.0	1730.2	1740.3	1750.5	1760.6	1770.8	1780.9	1770.8	1760.6	1750.5	1740.3
37.5°	1760.6	1772.6	1784.5	1796.5	1808.5	1820.4	1832.4	1820.4	1808.5	1796.5	1784.5
40°	1810.5	1825.1	1839.6	1854.2	1868.8	1883.3	1897.9	1883.9	1869.8	1855.8	1841.7
42.5°	1872.9	1890.3	1907.8	1925.2	1942.6	1960.0	1977.4	1960.8	1944.1	1927.5	1910.9
45°	1947.0	1967.3	1987.6	2007.9	2028.1	2048.4	2068.7	2050.2	2031.8	2013.3	1994.9
47.5°	2035.9	2059.3	2082.8	2106.2	2129.6	2153.0	2176.4	2155.1	2133.8	2112.4	2091.1
50°	2142.0	2168.8	2195.6	2222.4	2249.1	2275.9	2302.7	2278.0	2253.3	2228.6	2203.9
52.5°	2256.7	2286.6	2316.5	2346.4	2376.3	2406.2	2436.1	2409.1	2382.0	2355.0	2327.9
55°	2383.8	2416.3	2448.9	2481.4	2513.9	2546.4	2578.9	2549.8	2520.7	2491.5	2462.4
57.5°	2513.3	2548.4	2583.6	2618.7	2653.8	2688.9	2724.0	2692.8	2661.6	2630.4	2599.2
60°	2638.1	2674.3	2710.4	2746.6	2782.7	2818.9	2855.0	2823.0	2791.0	2759.1	2727.1
62.5°	2749.7	2785.6	2821.5	2857.4	2893.2	2929.1	2965.0	2933.5	2902.1	2870.6	2839.1
65°	2839.4	2874.8	2910.1	2945.5	2980.9	3016.2	3051.6	3020.9	2990.2	2959.5	2928.8
67.5°	2890.9	2924.7	2958.5	2992.3	3026.1	3059.9	3093.7	3064.3	3034.9	3005.6	2976.2
70°	2896.4	2928.1	2959.8	2991.5	3023.3	3055.0	3086.7	3059.1	3031.6	3004.0	2976.4
72.5°	2851.1	2880.2	2909.3	2938.4	2967.6	2996.7	3025.8	2999.8	2973.8	2947.8	2921.8
75°	2749.7	2776.2	2802.7	2829.2	2855.8	2882.3	2908.8	2884.6	2860.4	2836.3	2812.1
77.5°	2600.7	2625.2	2649.6	2674.1	2698.5	2723.0	2747.4	2724.8	2702.2	2679.5	2656.9
80°	2411.2	2433.3	2455.4	2477.5	2499.6	2521.7	2543.8	2522.5	2501.2	2479.8	2458.5
82.5°	2202.9	2222.7	2242.4	2262.2	2282.0	2301.7	2321.5	2301.2	2280.9	2260.6	2240.3
85°	1990.0	2007.4	2024.8	2042.2	2059.7	2077.1	2094.5	2075.8	2057.1	2038.3	2019.6
87.5°	1779.3	1795.2	1811.0	1826.9	1842.8	1858.6	1874.5	1859.4	1844.3	1829.2	1814.1
90°	1592.9	1607.4	1622.0	1636.5	1651.1	1665.6	1680.2	1666.2	1652.1	1638.1	1624.1
92.5°	1448.6	1461.8	1475.1	1488.3	1501.6	1514.8	1528.1	1514.8	1501.6	1488.3	1475.1
95°	1333.1	1345.3	1357.6	1369.8	1382.0	1394.2	1406.4	1394.4	1382.5	1370.5	1358.6
97.5°	1242.6	1254.3	1266.0	1277.7	1289.4	1301.1	1312.8	1301.4	1289.9	1278.5	1267.1
100°	1169.3	1180.8	1192.2	1203.7	1215.1	1226.6	1238.0	1227.1	1216.2	1205.2	1194.3
102.5°	1110.0	1121.2	1132.4	1143.6	1154.7	1165.9	1177.1	1166.2	1155.3	1144.3	1133.4
105°	1060.9	1072.1	1083.2	1094.4	1105.6	1116.8	1128.0	1117.6	1107.2	1096.8	1086.4
107.5°	1021.1	1032.3	1043.5	1054.7	1065.8	1077.0	1088.2	1077.5	1066.9	1056.2	1045.5
110°	980.5	992.2	1003.9	1015.6	1027.3	1039.0	1050.7	1039.8	1028.9	1018.0	1007.1



TEST NUMBER: P201396

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-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°	946.2	958.2	970.1	982.1	994.1	1006.0	1018.0	1006.8	995.6	984.4	973.2
115°	908.0	920.5	932.9	945.4	957.9	970.4	982.9	971.2	959.5	947.8	936.1
117.5°	866.6	879.4	892.1	904.9	917.6	930.4	943.1	931.1	919.2	907.2	895.2
120°	820.6	833.6	846.6	859.6	872.6	885.6	898.6	886.6	874.7	862.7	850.8
122.5°	767.6	780.8	794.1	807.3	820.6	833.8	847.1	835.1	823.2	811.2	799.3
125°	710.6	723.6	736.6	749.6	762.6	775.6	788.6	776.9	765.2	753.5	741.8
127.5°	649.8	662.0	674.2	686.4	698.7	710.9	723.1	712.2	701.3	690.3	679.4
130°	583.5	595.4	607.4	619.3	631.3	643.2	655.2	644.5	633.9	623.2	612.6
132.5°	523.4	534.1	544.7	555.4	566.1	576.7	587.4	577.8	568.2	558.5	548.9
135°	461.0	470.4	479.7	489.1	498.5	507.8	517.2	509.4	501.6	493.8	486.0
137.5°	396.3	405.9	415.5	425.1	434.8	444.4	454.0	446.5	438.9	431.4	423.8
140°	329.2	339.1	348.9	358.8	368.7	378.6	388.5	381.5	374.5	367.4	360.4
142.5°	274.6	282.6	290.7	298.7	306.8	314.8	322.9	318.2	313.5	308.9	304.2
145°	229.3	237.1	244.9	252.7	260.5	268.3	276.1	272.2	268.3	264.4	260.5
147.5°	188.0	195.3	202.6	209.9	217.1	224.4	231.7	228.6	225.5	222.3	219.2
150°	152.1	159.1	166.1	173.1	180.2	187.2	194.2	191.6	189.0	186.4	183.8
152.5°	117.8	124.3	130.8	137.3	143.8	150.3	156.8	154.7	152.6	150.6	148.5
155°	90.5	96.5	102.4	108.4	114.4	120.4	126.4	124.6	122.8	120.9	119.1
157.5°	64.7	69.9	75.1	80.3	85.5	90.7	95.9	94.6	93.3	92.0	90.7
160°	43.7	48.1	52.5	56.9	61.4	65.8	70.2	68.9	67.6	66.3	65.0
162.5°	21.8	25.2	28.6	32.0	35.3	38.7	42.1	41.3	40.5	39.8	39.0
165°	8.6	10.7	12.7	14.8	16.9	19.0	21.1	21.1	21.1	21.1	21.1
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: P201396

CATALOG NUMBER: 8LBLELD4-14-ASYMF-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°	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1
2.5°	1704.4	1706.0	1707.6	1709.1	1710.7	1713.3	1715.9	1718.5	1721.1	1723.7	1726.3
5°	1677.1	1677.9	1678.6	1679.4	1680.2	1683.1	1685.9	1688.8	1691.7	1694.5	1697.4
7.5°	1648.8	1649.0	1649.3	1649.5	1649.8	1652.7	1655.5	1658.4	1661.3	1664.1	1667.0
10°	1618.4	1618.6	1618.9	1619.1	1619.4	1622.8	1626.2	1629.5	1632.9	1636.3	1639.7
12.5°	1594.7	1594.5	1594.2	1594.0	1593.7	1596.8	1599.9	1603.0	1606.1	1609.3	1612.4
15°	1580.4	1579.6	1578.9	1578.1	1577.3	1578.6	1579.9	1581.2	1582.5	1583.8	1585.1
17.5°	1578.6	1576.5	1574.5	1572.4	1570.3	1569.3	1568.2	1567.2	1566.1	1565.1	1564.0
20°	1589.2	1585.1	1580.9	1576.8	1572.6	1567.9	1563.2	1558.6	1553.9	1549.2	1544.5
22.5°	1605.1	1599.9	1594.7	1589.5	1584.3	1576.0	1567.7	1559.3	1551.0	1542.7	1534.4
25°	1624.9	1619.4	1613.9	1608.5	1603.0	1591.6	1580.1	1568.7	1557.3	1545.8	1534.4
27.5°	1644.4	1638.1	1631.9	1625.6	1619.4	1606.1	1592.9	1579.6	1566.4	1553.1	1539.9
30°	1667.2	1659.9	1652.7	1645.4	1638.1	1622.2	1606.4	1590.5	1574.7	1558.8	1543.0
32.5°	1695.8	1687.2	1678.7	1670.1	1661.5	1642.8	1624.1	1605.3	1586.6	1567.9	1549.2
35°	1730.2	1720.0	1709.9	1699.7	1689.6	1667.8	1645.9	1624.1	1602.2	1580.4	1558.5
37.5°	1772.6	1760.6	1748.6	1736.7	1724.7	1699.2	1673.7	1648.3	1622.8	1597.3	1571.8
40°	1827.7	1813.6	1799.6	1785.5	1771.5	1741.6	1711.7	1681.8	1651.9	1622.0	1592.1
42.5°	1894.2	1877.6	1861.0	1844.3	1827.7	1792.9	1758.0	1723.2	1688.3	1653.5	1618.6
45°	1976.4	1958.0	1939.5	1921.1	1902.6	1861.0	1819.4	1777.8	1736.2	1694.5	1652.9
47.5°	2069.8	2048.5	2027.1	2005.8	1984.5	1936.4	1888.3	1840.2	1792.1	1743.9	1695.8
50°	2179.2	2154.5	2129.8	2105.1	2080.4	2025.0	1969.6	1914.3	1858.9	1803.5	1748.1
52.5°	2300.9	2273.8	2246.8	2219.7	2192.7	2129.0	2065.3	2001.6	1937.9	1874.2	1810.5
55°	2433.3	2404.2	2375.0	2345.9	2316.8	2244.3	2171.7	2099.2	2026.6	1954.1	1881.5
57.5°	2567.9	2536.7	2505.5	2474.3	2443.1	2362.8	2282.4	2202.1	2121.7	2041.4	1961.0
60°	2695.1	2663.1	2631.2	2599.2	2567.2	2479.6	2391.9	2304.3	2216.7	2129.0	2041.4
62.5°	2807.7	2776.2	2744.7	2713.3	2681.8	2587.9	2494.1	2400.2	2306.3	2212.5	2118.6
65°	2898.2	2867.5	2836.8	2806.1	2775.4	2676.9	2578.3	2479.8	2381.2	2282.7	2184.1
67.5°	2946.8	2917.4	2888.1	2858.7	2829.3	2728.9	2628.6	2528.2	2427.8	2327.5	2227.1
70°	2948.9	2921.3	2893.7	2866.2	2838.6	2738.5	2638.4	2538.3	2438.2	2338.1	2238.0
72.5°	2895.8	2869.8	2843.8	2817.8	2791.8	2695.1	2598.4	2501.6	2404.9	2308.2	2211.5
75°	2787.9	2763.7	2739.6	2715.4	2691.2	2599.9	2508.7	2417.4	2326.1	2234.9	2143.6
77.5°	2634.3	2611.7	2589.0	2566.4	2543.8	2459.6	2375.3	2291.1	2206.8	2122.6	2038.3
80°	2437.2	2415.9	2394.5	2373.2	2351.9	2275.7	2199.5	2123.3	2047.1	1971.0	1894.8
82.5°	2220.1	2199.8	2179.5	2159.2	2138.9	2071.8	2004.7	1937.7	1870.6	1803.5	1736.4
85°	2000.9	1982.2	1963.4	1944.7	1926.0	1867.0	1807.9	1748.9	1689.9	1630.8	1571.8
87.5°	1799.1	1784.0	1768.9	1753.8	1738.7	1684.9	1631.1	1577.2	1523.4	1469.6	1415.8
90°	1610.0	1596.0	1582.0	1567.9	1553.9	1506.6	1459.3	1411.9	1364.6	1317.3	1270.0
92.5°	1461.8	1448.6	1435.3	1422.1	1408.8	1366.9	1325.1	1283.2	1241.3	1199.5	1157.6
95°	1346.6	1334.7	1322.7	1310.8	1298.8	1260.3	1221.8	1183.4	1144.9	1106.4	1067.9
97.5°	1255.6	1244.2	1232.8	1221.3	1209.9	1173.8	1137.6	1101.5	1065.3	1029.2	993.0
100°	1183.4	1172.5	1161.5	1150.6	1139.7	1104.9	1070.0	1035.2	1000.3	965.5	930.6
102.5°	1122.5	1111.6	1100.6	1089.7	1078.8	1045.0	1011.2	977.4	943.6	909.8	876.0
105°	1076.0	1065.6	1055.2	1044.8	1034.4	1000.9	967.3	933.8	900.2	866.7	833.1
107.5°	1034.9	1024.2	1013.5	1002.9	992.2	959.2	926.2	893.1	860.1	827.1	794.1
110°	996.1	985.2	974.3	963.4	952.5	919.7	887.0	854.2	821.4	788.7	755.9



TEST NUMBER: P201396

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-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°	962.1	950.9	939.7	928.5	917.3	884.5	851.8	819.0	786.3	753.5	720.8
115°	924.4	912.7	901.0	889.3	877.6	844.8	812.1	779.3	746.5	713.8	681.0
117.5°	883.3	871.3	859.3	847.4	835.4	802.4	769.4	736.3	703.3	670.3	637.3
120°	838.8	826.9	814.9	803.0	791.0	758.5	726.0	693.5	661.0	628.5	596.0
122.5°	787.3	775.4	763.4	751.5	739.5	708.3	677.1	645.9	614.7	583.5	552.3
125°	730.1	718.4	706.7	695.0	683.3	653.7	624.0	594.4	564.8	535.1	505.5
127.5°	668.5	657.6	646.6	635.7	624.8	597.2	569.7	542.1	514.6	487.0	459.5
130°	601.9	591.3	580.6	570.0	559.3	534.6	509.9	485.2	460.5	435.8	411.1
132.5°	539.3	529.7	520.0	510.4	500.8	477.1	453.5	429.8	406.1	382.5	358.8
135°	478.2	470.4	462.6	454.8	447.0	425.7	404.4	383.0	361.7	340.4	319.1
137.5°	416.3	408.7	401.2	393.6	386.1	368.2	350.2	332.3	314.4	296.4	278.5
140°	353.4	346.4	339.3	332.3	325.3	311.0	296.7	282.4	268.1	253.8	239.5
142.5°	299.5	294.8	290.2	285.5	280.8	268.3	255.8	243.4	230.9	218.4	205.9
145°	256.6	252.7	248.8	244.9	241.0	230.3	219.7	209.0	198.4	187.7	177.1
147.5°	216.1	213.0	209.8	206.7	203.6	194.5	185.4	176.3	167.2	158.1	149.0
150°	181.2	178.6	176.0	173.4	170.8	162.7	154.7	146.6	138.6	130.5	122.5
152.5°	146.4	144.3	142.3	140.2	138.1	131.6	125.1	118.6	112.1	105.6	99.1
155°	117.3	115.5	113.6	111.8	110.0	104.5	99.1	93.6	88.1	82.7	77.2
157.5°	89.4	88.1	86.8	85.5	84.2	79.3	74.3	69.4	64.5	59.5	54.6
160°	63.7	62.4	61.1	59.8	58.5	54.9	51.2	47.6	43.9	40.3	36.6
162.5°	38.2	37.4	36.7	35.9	35.1	33.3	31.5	29.6	27.8	26.0	24.2
165°	21.1	21.1	21.1	21.1	21.1	20.1	19.0	18.0	16.9	15.9	14.8
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: P201396

CATALOG NUMBER: 8LBLELD4-14-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1
2.5°	1728.9	1731.5	1734.1	1734.4	1734.6	1734.9	1735.1	1735.4	1735.6	1735.9	1736.1
5°	1700.3	1703.1	1706.0	1707.0	1708.1	1709.1	1710.1	1711.2	1712.2	1713.2	1714.3
7.5°	1669.9	1672.7	1675.6	1677.2	1678.7	1680.3	1681.8	1683.4	1684.9	1686.5	1688.0
10°	1643.0	1646.4	1649.8	1650.6	1651.4	1652.1	1652.9	1653.7	1654.5	1655.2	1656.0
12.5°	1615.5	1618.6	1621.7	1622.0	1622.2	1622.5	1622.8	1623.0	1623.3	1623.6	1623.8
15°	1586.4	1587.7	1589.0	1589.3	1589.5	1589.8	1590.0	1590.3	1590.5	1590.8	1591.0
17.5°	1563.0	1561.9	1560.9	1559.9	1558.8	1557.8	1556.7	1555.7	1554.6	1553.6	1552.5
20°	1539.9	1535.2	1530.5	1528.2	1525.8	1523.5	1521.1	1518.8	1516.4	1514.1	1511.7
22.5°	1526.0	1517.7	1509.4	1503.9	1498.5	1493.0	1487.6	1482.1	1476.7	1471.2	1465.8
25°	1523.0	1511.5	1500.1	1490.5	1480.9	1471.2	1461.6	1452.0	1442.4	1432.7	1423.1
27.5°	1526.6	1513.4	1500.1	1484.8	1469.4	1454.1	1438.7	1423.4	1408.0	1392.7	1377.3
30°	1527.1	1511.3	1495.4	1475.1	1454.8	1434.5	1414.2	1394.0	1373.7	1353.4	1333.1
32.5°	1530.4	1511.7	1493.0	1467.8	1442.6	1417.3	1392.1	1366.9	1341.7	1316.4	1291.2
35°	1536.7	1514.8	1493.0	1462.3	1431.6	1401.0	1370.3	1339.6	1308.9	1278.3	1247.6
37.5°	1546.4	1520.9	1495.4	1459.8	1424.2	1388.5	1352.9	1317.3	1281.7	1246.0	1210.4
40°	1562.2	1532.3	1502.4	1462.4	1422.3	1382.3	1342.2	1302.2	1262.1	1222.1	1182.0
42.5°	1583.8	1548.9	1514.1	1469.1	1424.1	1379.1	1334.1	1289.2	1244.2	1199.2	1154.2
45°	1611.3	1569.7	1528.1	1478.2	1428.3	1378.3	1328.4	1278.5	1228.6	1178.6	1128.7
47.5°	1647.7	1599.6	1551.5	1496.1	1440.7	1385.4	1330.0	1274.6	1219.2	1163.9	1108.5
50°	1692.8	1637.4	1582.0	1520.1	1458.2	1396.3	1334.4	1272.6	1210.7	1148.8	1086.9
52.5°	1746.8	1683.1	1619.4	1550.5	1481.6	1412.7	1343.8	1274.9	1206.0	1137.1	1068.2
55°	1809.0	1736.4	1663.9	1587.7	1511.5	1435.3	1359.1	1283.0	1206.8	1130.6	1054.4
57.5°	1880.7	1800.3	1720.0	1635.0	1550.0	1464.9	1379.9	1294.9	1209.9	1124.8	1039.8
60°	1953.8	1866.1	1778.5	1684.6	1590.8	1496.9	1403.0	1309.2	1215.3	1121.4	1027.6
62.5°	2024.7	1930.9	1837.0	1734.6	1632.1	1529.7	1427.2	1324.8	1222.3	1119.9	1017.4
65°	2085.6	1987.0	1888.5	1778.0	1667.5	1557.0	1446.5	1335.9	1225.4	1114.9	1004.4
67.5°	2126.7	2026.4	1926.0	1808.5	1690.9	1573.4	1455.9	1338.3	1220.8	1103.3	985.7
70°	2137.9	2037.8	1937.7	1815.5	1693.3	1571.1	1448.9	1326.6	1204.4	1082.2	960.0
72.5°	2114.7	2018.0	1921.3	1797.0	1672.7	1548.4	1424.1	1299.9	1175.6	1051.3	927.0
75°	2052.3	1961.1	1869.8	1746.8	1623.8	1500.8	1377.8	1254.9	1131.9	1008.9	885.9
77.5°	1954.1	1869.8	1785.6	1667.0	1548.4	1429.9	1311.3	1192.7	1074.1	955.6	837.0
80°	1818.6	1742.4	1666.2	1555.4	1444.7	1333.9	1223.1	1112.4	1001.6	890.8	780.1
82.5°	1669.4	1602.3	1535.2	1433.3	1331.3	1229.4	1127.5	1025.5	923.6	821.7	719.7
85°	1512.8	1453.7	1394.7	1302.1	1209.6	1117.0	1024.4	931.9	839.3	746.7	654.2
87.5°	1361.9	1308.1	1254.3	1171.6	1088.9	1006.3	923.6	840.9	758.2	675.6	592.9
90°	1222.6	1175.3	1128.0	1053.9	979.8	905.7	831.6	757.4	683.3	609.2	535.1
92.5°	1115.7	1073.9	1032.0	965.2	898.4	831.5	764.7	697.9	631.1	564.2	497.4
95°	1029.5	991.0	952.5	890.9	829.2	767.6	706.0	644.3	582.7	521.1	459.4
97.5°	956.9	920.7	884.6	827.4	770.2	713.0	655.8	598.5	541.3	484.1	426.9
100°	895.8	860.9	826.1	772.3	718.5	664.6	610.8	557.0	503.2	449.3	395.5
102.5°	842.2	808.4	774.6	723.4	672.2	620.9	569.7	518.5	467.3	416.0	364.8
105°	799.6	766.0	732.5	683.1	633.7	584.3	534.9	485.4	436.0	386.6	337.2
107.5°	761.0	728.0	695.0	647.2	599.3	551.5	503.6	455.8	407.9	360.1	312.2
110°	723.1	690.4	657.6	611.6	565.6	519.5	473.5	427.5	381.5	335.4	289.4



TEST NUMBER: P201396

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-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°	688.0	655.3	622.5	577.8	533.1	488.3	443.6	398.9	354.2	309.4	264.7
115°	648.2	615.5	582.7	540.1	497.4	454.8	412.1	369.5	326.8	284.2	241.5
117.5°	604.2	571.2	538.2	498.4	458.6	418.9	379.1	339.3	299.5	259.8	220.0
120°	563.5	531.0	498.5	461.1	423.6	386.2	348.7	311.3	273.8	236.4	198.9
122.5°	521.1	489.9	458.7	424.1	389.5	354.9	320.3	285.8	251.2	216.6	182.0
125°	475.9	446.2	416.6	384.9	353.1	321.4	289.7	257.9	226.2	194.5	162.7
127.5°	431.9	404.4	376.8	347.9	319.1	290.2	261.3	232.5	203.6	174.7	145.9
130°	386.4	361.7	337.0	311.3	285.5	259.8	234.0	208.3	182.5	156.8	131.0
132.5°	335.1	311.5	287.8	266.0	244.1	222.3	200.5	178.6	156.8	135.0	113.1
135°	297.7	276.4	255.1	235.6	216.1	196.6	177.1	157.6	138.1	118.6	99.1
137.5°	260.6	242.6	224.7	207.0	189.3	171.6	153.9	136.3	118.6	100.9	83.2
140°	225.2	210.9	196.6	180.7	164.9	149.0	133.1	117.3	101.4	85.5	69.7
142.5°	193.5	181.0	168.5	154.5	140.4	126.4	112.3	98.3	84.2	70.2	56.1
145°	166.4	155.8	145.1	132.6	120.1	107.7	95.2	82.7	70.2	57.8	45.3
147.5°	139.9	130.8	121.7	111.0	100.4	89.7	79.0	68.4	57.7	47.0	36.4
150°	114.4	106.4	98.3	89.7	81.1	72.6	64.0	55.4	46.8	38.3	29.7
152.5°	92.6	86.1	79.6	72.8	66.1	59.3	52.5	45.8	39.0	32.2	25.5
155°	71.7	66.3	60.8	55.6	50.4	45.2	40.0	34.8	29.6	24.4	19.2
157.5°	49.7	44.7	39.8	36.4	33.0	29.7	26.3	22.9	19.5	16.2	12.8
160°	33.0	29.3	25.7	23.6	21.5	19.5	17.4	15.3	13.2	11.2	9.1
162.5°	22.3	20.5	18.7	17.1	15.6	14.0	12.5	10.9	9.4	7.8	6.3
165°	13.8	12.7	11.7	10.9	10.1	9.4	8.6	7.8	7.0	6.3	5.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201396

CATALOG NUMBER: 8LBLELD4-14-ASYMF-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°	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1
2.5°	1736.4	1741.3	1746.3	1751.2	1756.2	1761.1	1766.1	1771.0	1776.0	1780.9	1780.4
5°	1715.3	1721.5	1727.8	1734.0	1740.3	1746.5	1752.8	1759.0	1765.3	1771.5	1772.8
7.5°	1689.6	1696.6	1703.6	1710.7	1717.7	1724.7	1731.7	1738.8	1745.8	1752.8	1756.2
10°	1656.8	1665.1	1673.4	1681.8	1690.1	1698.4	1706.7	1715.1	1723.4	1731.7	1736.6
12.5°	1624.1	1632.9	1641.8	1650.6	1659.4	1668.3	1677.1	1685.9	1694.8	1703.6	1710.6
15°	1591.3	1600.4	1609.5	1618.6	1627.7	1636.8	1645.9	1655.0	1664.1	1673.2	1682.3
17.5°	1551.5	1560.9	1570.2	1579.6	1589.0	1598.3	1607.7	1617.1	1626.4	1635.8	1647.0
20°	1509.4	1518.8	1528.1	1537.5	1546.9	1556.2	1565.6	1575.0	1584.3	1593.7	1606.7
22.5°	1460.3	1469.1	1478.0	1486.8	1495.6	1504.5	1513.3	1522.1	1531.0	1539.8	1555.9
25°	1413.5	1422.1	1430.7	1439.2	1447.8	1456.4	1465.0	1473.5	1482.1	1490.7	1508.6
27.5°	1362.0	1370.3	1378.6	1387.0	1395.3	1403.6	1411.9	1420.3	1428.6	1436.9	1457.2
30°	1312.8	1319.8	1326.8	1333.9	1340.9	1347.9	1354.9	1362.0	1369.0	1376.0	1398.9
32.5°	1266.0	1270.9	1275.9	1280.8	1285.8	1290.7	1295.7	1300.6	1305.6	1310.5	1336.5
35°	1216.9	1219.8	1222.6	1225.5	1228.3	1231.2	1234.0	1236.9	1239.7	1242.6	1272.0
37.5°	1174.8	1174.8	1174.8	1174.8	1174.8	1174.8	1174.8	1174.8	1174.8	1174.8	1208.1
40°	1142.0	1137.8	1133.7	1129.5	1125.4	1121.2	1117.1	1112.9	1108.8	1104.6	1142.0
42.5°	1109.2	1100.4	1091.5	1082.7	1073.9	1065.0	1056.2	1047.4	1038.5	1029.7	1072.1
45°	1078.8	1065.5	1052.3	1039.0	1025.8	1012.5	999.3	986.0	972.8	959.5	1006.6
47.5°	1053.1	1034.6	1016.2	997.7	979.2	960.8	942.3	923.8	905.4	886.9	938.6
50°	1025.0	1001.9	978.7	955.6	932.4	909.3	886.1	863.0	839.8	816.7	873.4
52.5°	999.3	971.5	943.7	915.8	888.0	860.2	832.4	804.5	776.7	748.9	810.3
55°	978.2	945.4	912.7	879.9	847.1	814.4	781.6	748.8	716.1	683.3	749.3
57.5°	954.8	917.4	879.9	842.5	805.0	767.6	730.1	692.7	655.2	617.8	688.8
60°	933.7	890.8	847.9	805.0	762.1	719.2	676.3	633.4	590.5	547.6	624.3
62.5°	915.0	867.4	819.8	772.3	724.7	677.1	629.5	582.0	534.4	486.8	568.4
65°	893.9	842.2	790.4	738.7	687.0	635.2	583.5	531.8	480.0	428.3	514.4
67.5°	868.2	812.8	757.4	702.0	646.6	591.3	535.9	480.5	425.1	369.7	459.7
70°	837.8	779.8	721.8	663.8	605.8	547.9	489.9	431.9	373.9	315.9	408.7
72.5°	802.7	742.6	682.6	622.5	562.4	502.4	442.3	382.2	322.2	262.1	357.0
75°	762.9	701.8	640.7	579.6	518.5	457.4	396.3	335.2	274.1	213.0	308.9
77.5°	718.4	657.3	596.2	535.1	474.0	412.9	351.8	290.7	229.6	168.5	263.9
80°	669.3	608.7	548.1	487.5	426.9	366.4	305.8	245.2	184.6	124.0	217.9
82.5°	617.8	558.8	499.8	440.7	381.7	322.7	263.7	204.6	145.6	86.6	177.6
85°	561.6	504.9	448.2	391.6	334.9	278.2	221.5	164.9	108.2	51.5	139.1
87.5°	510.2	455.9	401.5	347.2	292.8	238.5	184.1	129.8	75.4	21.1	104.3
90°	461.0	409.8	358.6	307.3	256.1	204.9	153.7	102.4	51.2	0.0	78.0
92.5°	430.6	382.8	334.9	287.1	239.2	191.4	143.5	95.7	47.8	0.0	72.3
95°	397.8	353.6	309.4	265.2	221.0	176.8	132.6	88.4	44.2	0.0	66.6
97.5°	369.7	328.6	287.5	246.5	205.4	164.3	123.2	82.2	41.1	0.0	60.6
100°	341.7	303.7	265.8	227.8	189.8	151.9	113.9	75.9	38.0	0.0	55.4
102.5°	313.6	278.8	243.9	209.1	174.2	139.4	104.5	69.7	34.8	0.0	50.4
105°	287.8	255.8	223.8	191.9	159.9	127.9	95.9	64.0	32.0	0.0	46.0
107.5°	264.4	235.0	205.6	176.3	146.9	117.5	88.1	58.8	29.4	0.0	41.9
110°	243.4	216.4	189.3	162.3	135.2	108.2	81.1	54.1	27.0	0.0	37.7



TEST NUMBER: P201396

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-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°	220.0	195.6	171.1	146.7	122.2	97.8	73.3	48.9	24.4	0.0	34.3
115°	198.9	177.1	155.2	133.4	111.5	89.7	67.8	46.0	24.1	2.3	33.2
117.5°	180.2	160.4	140.7	120.9	101.1	81.4	61.6	41.8	22.1	2.3	30.1
120°	161.5	143.8	126.1	108.4	90.7	73.1	55.4	37.7	20.0	2.3	27.5
122.5°	147.4	131.3	115.2	99.0	82.9	66.8	50.7	34.5	18.4	2.3	24.7
125°	131.0	116.7	102.4	88.1	73.8	59.5	45.2	30.9	16.6	2.3	21.8
127.5°	117.0	104.3	91.5	78.8	66.0	53.3	40.5	27.8	15.0	2.3	18.7
130°	105.3	93.9	82.4	71.0	59.5	48.1	36.6	25.2	13.7	2.3	15.6
132.5°	91.3	81.4	71.5	61.6	51.7	41.9	32.0	22.1	12.2	2.3	13.0
135°	79.6	71.0	62.4	53.8	45.2	36.7	28.1	19.5	10.9	2.3	10.4
137.5°	65.5	58.5	51.5	44.4	37.4	30.4	23.4	16.3	9.3	2.3	8.0
140°	53.8	48.1	42.4	36.6	30.9	25.2	19.5	13.7	8.0	2.3	6.2
142.5°	42.1	37.7	33.3	28.8	24.4	20.0	15.6	11.1	6.7	2.3	4.9
145°	32.8	29.4	26.0	22.6	19.2	15.9	12.5	9.1	5.7	2.3	3.9
147.5°	25.7	23.1	20.5	17.9	15.3	12.7	10.1	7.5	4.9	2.3	3.3
150°	21.1	19.0	16.9	14.8	12.7	10.7	8.6	6.5	4.4	2.3	3.1
152.5°	18.7	16.9	15.1	13.2	11.4	9.6	7.8	5.9	4.1	2.3	2.8
155°	14.0	12.7	11.4	10.1	8.8	7.5	6.2	4.9	3.6	2.3	2.6
157.5°	9.4	8.6	7.8	7.0	6.2	5.5	4.7	3.9	3.1	2.3	2.3
160°	7.0	6.5	6.0	5.4	4.9	4.4	3.9	3.3	2.8	2.3	2.3
162.5°	4.7	4.4	4.2	3.9	3.6	3.4	3.1	2.8	2.6	2.3	2.3
165°	4.7	4.4	4.2	3.9	3.6	3.4	3.1	2.8	2.6	2.3	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	0.0	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: P201396

CATALOG NUMBER: 8LBLELD4-14-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1
2.5°	1779.9	1779.3	1778.8	1778.3	1777.8	1777.2	1776.7	1776.2	1777.5	1778.8	1780.1
5°	1774.1	1775.4	1776.7	1778.0	1779.3	1780.6	1781.9	1783.2	1786.1	1788.9	1791.8
7.5°	1759.6	1762.9	1766.3	1769.7	1773.1	1776.4	1779.8	1783.2	1787.6	1792.0	1796.5
10°	1741.6	1746.5	1751.5	1756.4	1761.4	1766.3	1771.3	1776.2	1782.7	1789.2	1795.7
12.5°	1717.6	1724.7	1731.7	1738.7	1745.7	1752.8	1759.8	1766.8	1775.4	1784.0	1792.6
15°	1691.4	1700.5	1709.6	1718.7	1727.8	1736.9	1746.0	1755.1	1765.8	1776.4	1787.1
17.5°	1658.2	1669.3	1680.5	1691.7	1702.9	1714.0	1725.2	1736.4	1749.9	1763.4	1777.0
20°	1619.7	1632.7	1645.7	1658.7	1671.7	1684.7	1697.7	1710.7	1727.3	1744.0	1760.6
22.5°	1572.0	1588.2	1604.3	1620.4	1636.5	1652.7	1668.8	1684.9	1706.0	1727.0	1748.1
25°	1526.6	1544.5	1562.5	1580.4	1598.4	1616.3	1634.3	1652.2	1679.0	1705.8	1732.5
27.5°	1477.5	1497.7	1518.0	1538.3	1558.6	1578.8	1599.1	1619.4	1651.9	1684.4	1716.9
30°	1421.8	1444.7	1467.6	1490.4	1513.3	1536.2	1559.1	1582.0	1620.5	1659.0	1697.4
32.5°	1362.5	1388.5	1414.5	1440.5	1466.5	1492.5	1518.5	1544.5	1589.2	1633.9	1678.7
35°	1301.4	1330.8	1360.2	1389.5	1418.9	1448.3	1477.7	1507.1	1557.5	1608.0	1658.4
37.5°	1241.4	1274.6	1307.9	1341.2	1374.5	1407.7	1441.0	1474.3	1530.7	1587.1	1643.6
40°	1179.5	1216.9	1254.3	1291.8	1329.2	1366.6	1404.1	1441.5	1504.2	1566.8	1629.5
42.5°	1114.5	1156.8	1199.2	1241.6	1284.0	1326.3	1368.7	1411.1	1480.0	1548.9	1617.8
45°	1053.6	1100.7	1147.7	1194.8	1241.8	1288.9	1335.9	1383.0	1458.9	1534.9	1610.8
47.5°	990.4	1042.1	1093.9	1145.6	1197.4	1249.1	1300.9	1352.6	1436.6	1520.6	1604.6
50°	930.1	986.8	1043.5	1100.1	1156.8	1213.5	1270.2	1326.9	1419.2	1511.5	1603.8
52.5°	871.6	933.0	994.3	1055.7	1117.0	1178.4	1239.7	1301.1	1402.8	1504.4	1606.1
55°	815.4	881.4	947.5	1013.5	1079.6	1145.6	1211.7	1277.7	1389.8	1501.8	1613.9
57.5°	759.8	830.8	901.8	972.7	1043.7	1114.7	1185.7	1256.7	1379.7	1502.7	1625.7
60°	701.0	777.7	854.4	931.2	1007.9	1084.6	1161.3	1238.0	1372.9	1507.9	1642.8
62.5°	650.1	731.7	813.4	895.0	976.7	1058.3	1140.0	1221.6	1368.0	1514.4	1660.8
65°	600.4	686.5	772.5	858.6	944.6	1030.7	1116.7	1202.8	1360.1	1517.4	1674.8
67.5°	549.6	639.6	729.6	819.5	909.5	999.5	1089.4	1179.4	1347.1	1514.8	1682.6
70°	501.6	594.4	687.2	780.1	872.9	965.7	1058.6	1151.4	1325.9	1500.3	1674.8
72.5°	451.9	546.8	641.7	736.7	831.6	926.5	1021.4	1116.3	1293.9	1471.5	1649.1
75°	404.9	500.8	596.8	692.7	788.7	884.6	980.6	1076.5	1252.5	1428.6	1604.6
77.5°	359.3	454.8	550.2	645.6	741.0	836.5	931.9	1027.3	1197.9	1368.5	1539.0
80°	311.7	405.6	499.5	593.3	687.2	781.1	874.9	968.8	1130.3	1291.8	1453.2
82.5°	268.6	359.6	450.6	541.6	632.6	723.6	814.6	905.6	1055.9	1206.2	1356.5
85°	226.7	314.4	402.0	489.6	577.2	664.9	752.5	840.1	977.9	1115.7	1253.5
87.5°	187.5	270.7	353.9	437.1	520.3	603.5	686.7	769.9	894.7	1019.5	1144.3
90°	156.0	234.0	312.0	390.1	468.1	546.1	624.1	702.1	815.2	928.3	1041.4
92.5°	144.6	216.9	289.2	361.4	433.7	506.0	578.3	650.6	753.3	856.0	958.7
95°	133.1	199.7	266.3	332.8	399.4	466.0	532.5	599.1	693.7	788.4	883.0
97.5°	121.2	181.8	242.4	302.9	363.5	424.1	484.7	545.3	633.7	722.1	810.5
100°	110.8	166.2	221.6	276.9	332.3	387.7	443.1	498.5	581.7	664.9	748.1
102.5°	100.9	151.3	201.8	252.2	302.7	353.1	403.6	454.0	532.8	611.6	690.4
105°	92.0	138.1	184.1	230.1	276.1	322.2	368.2	414.2	489.1	564.0	638.9
107.5°	83.7	125.6	167.5	209.3	251.2	293.1	334.9	376.8	449.3	521.9	594.4
110°	75.4	113.1	150.8	188.5	226.2	263.9	301.6	339.3	408.7	478.2	547.6



TEST NUMBER: P201396

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-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°	68.6	103.0	137.3	171.6	205.9	240.3	274.6	308.9	374.7	440.5	506.3
115°	64.2	95.1	126.1	157.0	188.0	218.9	249.9	280.8	343.5	406.1	468.8
117.5°	57.9	85.8	113.6	141.4	169.2	197.1	224.9	252.7	312.5	372.3	432.1
120°	52.7	78.0	103.2	128.4	153.6	178.9	204.1	229.3	284.9	340.6	396.2
122.5°	47.0	69.4	91.8	114.1	136.5	158.9	181.2	203.6	254.8	306.0	357.3
125°	41.3	60.8	80.3	99.9	119.4	138.9	158.4	177.9	225.5	273.1	320.6
127.5°	35.1	51.5	67.9	84.2	100.6	117.0	133.4	149.8	193.7	237.7	281.6
130°	28.8	42.1	55.4	68.6	81.9	95.2	108.4	121.7	161.2	200.7	240.3
132.5°	23.6	34.3	45.0	55.6	66.3	77.0	87.6	98.3	133.1	168.0	202.8
135°	18.4	26.5	34.6	42.6	50.7	58.8	66.8	74.9	105.6	136.3	166.9
137.5°	13.7	19.5	25.2	30.9	36.6	42.4	48.1	53.8	80.6	107.4	134.2
140°	10.1	14.0	17.9	21.8	25.7	29.6	33.5	37.4	60.3	83.2	106.1
142.5°	7.5	10.1	12.7	15.3	17.9	20.5	23.1	25.7	44.9	64.2	83.4
145°	5.4	7.0	8.6	10.1	11.7	13.3	14.8	16.4	32.0	47.6	63.2
147.5°	4.4	5.4	6.5	7.5	8.6	9.6	10.7	11.7	23.9	36.1	48.4
150°	3.9	4.7	5.5	6.2	7.0	7.8	8.6	9.4	18.2	27.1	35.9
152.5°	3.3	3.9	4.4	4.9	5.4	6.0	6.5	7.0	13.2	19.5	25.7
155°	2.8	3.1	3.4	3.6	3.9	4.2	4.4	4.7	8.3	12.0	15.6
157.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.4	6.5	8.6
160°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.9	4.7
162.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
165°	1.8	1.5	1.3	1.0	0.8	0.5	0.3	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: P201396

CATALOG NUMBER: 8LBLELD4-14-ASYMF-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°	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1
2.5°	1781.4	1782.7	1784.0	1785.3	1786.6	1787.9	1788.4	1788.9	1789.5	1790.0	1790.5
5°	1794.7	1797.5	1800.4	1803.3	1806.1	1809.0	1810.6	1812.1	1813.7	1815.2	1816.8
7.5°	1800.9	1805.3	1809.7	1814.2	1818.6	1823.0	1826.1	1829.2	1832.4	1835.5	1838.6
10°	1802.2	1808.7	1815.2	1821.7	1828.2	1834.7	1839.6	1844.6	1849.5	1854.5	1859.4
12.5°	1801.2	1809.7	1818.3	1826.9	1835.5	1844.1	1850.9	1857.6	1864.4	1871.1	1877.9
15°	1797.8	1808.4	1819.1	1829.8	1840.4	1851.1	1859.9	1868.8	1877.6	1886.4	1895.3
17.5°	1790.5	1804.0	1817.5	1831.1	1844.6	1858.1	1870.1	1882.0	1894.0	1905.9	1917.9
20°	1777.2	1793.9	1810.5	1827.1	1843.8	1860.4	1877.3	1894.2	1911.1	1928.0	1944.9
22.5°	1769.2	1790.2	1811.3	1832.4	1853.4	1874.5	1894.8	1915.1	1935.3	1955.6	1975.9
25°	1759.3	1786.1	1812.9	1839.6	1866.4	1893.2	1916.3	1939.5	1962.6	1985.8	2008.9
27.5°	1749.4	1781.9	1814.4	1846.9	1879.4	1911.9	1937.9	1963.9	1989.9	2015.9	2041.9
30°	1735.9	1774.4	1812.9	1851.3	1889.8	1928.3	1957.7	1987.1	2016.4	2045.8	2075.2
32.5°	1723.4	1768.1	1812.8	1857.6	1902.3	1947.0	1980.0	2013.0	2046.1	2079.1	2112.1
35°	1708.9	1759.3	1809.8	1860.2	1910.7	1961.1	1999.3	2037.5	2075.8	2114.0	2152.2
37.5°	1700.0	1756.4	1812.8	1869.3	1925.7	1982.1	2025.5	2068.9	2112.4	2155.8	2199.2
40°	1692.2	1754.8	1817.5	1880.2	1942.8	2005.5	2055.4	2105.3	2155.3	2205.2	2255.1
42.5°	1686.7	1755.7	1824.6	1893.5	1962.4	2031.3	2089.3	2147.3	2205.2	2263.2	2321.2
45°	1686.7	1762.7	1838.6	1914.5	1990.5	2066.4	2133.0	2199.5	2266.1	2332.7	2399.2
47.5°	1688.6	1772.5	1856.5	1940.5	2024.5	2108.5	2184.4	2260.3	2336.3	2412.2	2488.1
50°	1696.1	1788.4	1880.7	1973.0	2065.3	2157.6	2245.8	2333.9	2422.1	2510.2	2598.4
52.5°	1707.8	1809.4	1911.1	2012.8	2114.4	2216.1	2314.4	2412.7	2511.0	2609.3	2707.5
55°	1726.0	1838.0	1950.1	2062.2	2174.2	2286.3	2396.3	2506.3	2616.3	2726.3	2836.2
57.5°	1748.7	1871.6	1994.6	2117.6	2240.6	2363.6	2484.5	2605.4	2726.3	2847.2	2968.2
60°	1777.8	1912.7	2047.7	2182.6	2317.6	2452.5	2584.3	2716.2	2848.0	2979.8	3111.7
62.5°	1807.2	1953.5	2099.9	2246.3	2392.7	2539.1	2677.4	2815.8	2954.1	3092.4	3230.8
65°	1832.1	1989.4	2146.7	2304.1	2461.4	2618.7	2763.0	2907.3	3051.6	3195.9	3340.2
67.5°	1850.3	2018.0	2185.7	2353.5	2521.2	2688.9	2835.0	2981.1	3127.3	3273.4	3419.5
70°	1849.3	2023.7	2198.2	2372.7	2547.1	2721.6	2867.5	3013.4	3159.2	3305.1	3451.0
72.5°	1826.7	2004.2	2181.8	2359.4	2537.0	2714.6	2857.1	2999.6	3142.1	3284.6	3427.0
75°	1780.6	1956.7	2132.7	2308.7	2484.8	2660.8	2797.6	2934.3	3071.1	3207.9	3344.6
77.5°	1709.6	1880.2	2050.8	2221.3	2391.9	2562.5	2690.9	2819.4	2947.8	3076.3	3204.7
80°	1614.7	1776.2	1937.7	2099.1	2260.6	2422.1	2540.4	2658.7	2777.0	2895.3	3013.7
82.5°	1506.8	1657.1	1807.4	1957.7	2108.0	2258.3	2365.7	2473.1	2580.5	2687.9	2795.2
85°	1391.3	1529.2	1667.0	1804.8	1942.6	2080.4	2177.6	2274.9	2372.1	2469.4	2566.6
87.5°	1269.1	1394.0	1518.8	1643.6	1768.4	1893.2	1980.0	2066.9	2153.7	2240.6	2327.4
90°	1154.5	1267.6	1380.7	1493.8	1606.9	1720.0	1798.5	1877.1	1955.6	2034.1	2112.7
92.5°	1061.4	1164.1	1266.8	1369.5	1472.2	1574.9	1647.4	1720.0	1792.5	1865.1	1937.6
95°	977.7	1072.3	1167.0	1261.6	1356.3	1450.9	1519.3	1587.7	1656.1	1724.5	1792.8
97.5°	898.9	987.3	1075.7	1164.1	1252.5	1340.9	1405.1	1469.3	1533.6	1597.8	1662.0
100°	831.3	914.5	997.7	1080.9	1164.1	1247.3	1309.4	1371.6	1433.7	1495.9	1558.0
102.5°	769.2	847.9	926.7	1005.5	1084.3	1163.1	1223.9	1284.8	1345.6	1406.5	1467.3
105°	713.8	788.6	863.5	938.4	1013.3	1088.2	1148.0	1207.8	1267.6	1327.4	1387.2
107.5°	667.0	739.5	812.1	884.6	957.2	1029.7	1087.7	1145.7	1203.6	1261.6	1319.6
110°	617.0	686.5	755.9	825.3	894.8	964.2	1021.4	1078.6	1135.8	1193.0	1250.2



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CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	572.1	637.8	703.6	769.4	835.2	901.0	956.9	1012.8	1068.7	1124.6	1180.5
115°	531.5	594.1	656.8	719.5	782.1	844.8	898.1	951.4	1004.7	1058.0	1111.3
117.5°	491.9	551.8	611.6	671.4	731.2	791.0	842.0	892.9	943.9	994.9	1045.8
120°	451.9	507.5	563.2	618.8	674.5	730.1	779.8	829.4	879.1	928.8	978.4
122.5°	408.5	459.7	510.9	562.2	613.4	664.6	713.5	762.4	811.3	860.2	909.0
125°	368.2	415.8	463.4	510.9	558.5	606.1	652.4	698.7	745.0	791.3	837.5
127.5°	325.6	369.5	413.5	457.4	501.4	545.3	587.9	630.6	673.2	715.8	758.5
130°	279.8	319.3	358.8	398.4	437.9	477.4	516.7	555.9	595.2	634.5	673.7
132.5°	237.7	272.5	307.4	342.2	377.1	411.9	449.1	486.3	523.4	560.6	597.8
135°	197.6	228.3	259.0	289.6	320.3	351.0	386.4	421.7	457.1	492.5	527.8
137.5°	161.0	187.7	214.5	241.3	268.1	294.9	327.4	359.9	392.4	424.9	457.4
140°	129.0	151.8	174.7	197.6	220.5	243.4	271.0	298.5	326.1	353.6	381.2
142.5°	102.7	121.9	141.2	160.4	179.7	198.9	222.3	245.7	269.1	292.5	315.9
145°	78.8	94.4	110.0	125.6	141.2	156.8	176.6	196.3	216.1	235.8	255.6
147.5°	60.6	72.8	85.0	97.3	109.5	121.7	138.1	154.5	170.8	187.2	203.6
150°	44.7	53.6	62.4	71.2	80.1	88.9	102.4	115.9	129.5	143.0	156.5
152.5°	32.0	38.2	44.5	50.7	57.0	63.2	73.6	84.0	94.4	104.8	115.2
155°	19.2	22.9	26.5	30.1	33.8	37.4	45.7	54.0	62.4	70.7	79.0
157.5°	10.7	12.7	14.8	16.9	19.0	21.1	26.8	32.5	38.2	43.9	49.7
160°	5.5	6.2	7.0	7.8	8.6	9.4	12.8	16.2	19.5	22.9	26.3
162.5°	2.3	2.3	2.3	2.3	2.3	2.3	3.9	5.4	7.0	8.6	10.1
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.8	1.0	1.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1	1755.1
2.5°	1791.0	1791.6	1792.1	1792.6	1790.8	1789.0	1787.1	1785.3	1783.5	1781.7	1779.8
5°	1818.3	1819.9	1821.4	1823.0	1822.5	1822.0	1821.4	1820.9	1820.4	1819.9	1819.3
7.5°	1841.7	1844.9	1848.0	1851.1	1851.4	1851.6	1851.9	1852.1	1852.4	1852.6	1852.9
10°	1864.4	1869.3	1874.3	1879.2	1879.7	1880.2	1880.7	1881.2	1881.8	1882.3	1882.8
12.5°	1884.6	1891.4	1898.1	1904.9	1906.2	1907.5	1908.8	1910.1	1911.4	1912.7	1914.0
15°	1904.1	1912.9	1921.8	1930.6	1933.2	1935.8	1938.4	1941.0	1943.6	1946.2	1948.8
17.5°	1929.8	1941.8	1953.7	1965.7	1970.1	1974.5	1979.0	1983.4	1987.8	1992.2	1996.7
20°	1961.8	1978.7	1995.6	2012.5	2018.0	2023.4	2028.9	2034.4	2039.8	2045.3	2050.8
22.5°	1996.2	2016.4	2036.7	2057.0	2063.2	2069.5	2075.7	2082.0	2088.2	2094.5	2100.7
25°	2032.1	2055.2	2078.4	2101.5	2108.8	2116.1	2123.3	2130.6	2137.9	2145.2	2152.4
27.5°	2067.9	2093.9	2119.9	2145.9	2155.0	2164.1	2173.2	2182.3	2191.4	2200.5	2209.6
30°	2104.6	2133.9	2163.3	2192.7	2203.6	2214.5	2225.5	2236.4	2247.3	2258.2	2269.2
32.5°	2145.1	2178.2	2211.2	2244.2	2256.9	2269.7	2282.4	2295.2	2307.9	2320.7	2333.4
35°	2190.4	2228.7	2266.9	2305.1	2320.4	2335.8	2351.1	2366.4	2381.8	2397.1	2412.4
37.5°	2242.6	2286.1	2329.5	2372.9	2391.9	2410.9	2429.9	2448.9	2467.8	2486.8	2505.8
40°	2305.0	2355.0	2404.9	2454.8	2477.4	2500.0	2522.7	2545.3	2567.9	2590.5	2613.2
42.5°	2379.2	2437.1	2495.1	2553.1	2579.1	2605.1	2631.1	2657.1	2683.1	2709.1	2735.1
45°	2465.8	2532.4	2598.9	2665.5	2695.4	2725.3	2755.2	2785.1	2815.0	2844.9	2874.8
47.5°	2564.0	2640.0	2715.9	2791.8	2827.2	2862.5	2897.9	2933.3	2968.6	3004.0	3039.4
50°	2686.5	2774.7	2862.8	2951.0	2989.7	3028.5	3067.2	3105.9	3144.7	3183.4	3222.1
52.5°	2805.8	2904.1	3002.4	3100.7	3144.9	3189.1	3233.3	3277.5	3321.8	3366.0	3410.2
55°	2946.2	3056.2	3166.2	3276.2	3323.8	3371.4	3419.0	3466.6	3514.1	3561.7	3609.3
57.5°	3089.1	3210.0	3330.9	3451.8	3502.5	3553.2	3603.9	3654.6	3705.3	3756.0	3806.7
60°	3243.5	3375.3	3507.2	3639.0	3689.4	3739.9	3790.3	3840.8	3891.2	3941.7	3992.1
62.5°	3369.1	3507.4	3645.8	3784.1	3835.8	3887.6	3939.3	3991.1	4042.8	4094.6	4146.3
65°	3484.5	3628.8	3773.1	3917.4	3967.1	4016.7	4066.4	4116.1	4165.7	4215.4	4265.1
67.5°	3565.6	3711.8	3857.9	4004.0	4051.8	4099.7	4147.5	4195.4	4243.2	4291.1	4338.9
70°	3596.9	3742.7	3888.6	4034.5	4079.2	4123.9	4168.7	4213.4	4258.1	4302.8	4347.6
72.5°	3569.5	3712.0	3854.5	3997.0	4039.9	4082.8	4125.7	4168.6	4211.5	4254.4	4297.3
75°	3481.4	3618.2	3754.9	3891.7	3932.3	3972.8	4013.4	4054.0	4094.5	4135.1	4175.7
77.5°	3333.2	3461.6	3590.1	3718.5	3757.0	3795.5	3834.0	3872.5	3910.9	3949.4	3987.9
80°	3132.0	3250.3	3368.6	3486.9	3523.8	3560.7	3597.7	3634.6	3671.5	3708.4	3745.4
82.5°	2902.6	3010.0	3117.4	3224.8	3259.9	3295.0	3330.1	3365.2	3400.3	3435.4	3470.5
85°	2663.9	2761.1	2858.4	2955.6	2987.6	3019.6	3051.6	3083.6	3115.5	3147.5	3179.5
87.5°	2414.3	2501.1	2588.0	2674.8	2706.0	2737.2	2768.4	2799.6	2830.8	2862.0	2893.2
90°	2191.2	2269.7	2348.3	2426.8	2456.4	2486.1	2515.7	2545.3	2575.0	2604.6	2634.2
92.5°	2010.2	2082.7	2155.3	2227.8	2255.1	2282.4	2309.7	2337.0	2364.4	2391.7	2419.0
95°	1861.2	1929.6	1998.0	2066.4	2091.4	2116.3	2141.3	2166.2	2191.2	2216.1	2241.1
97.5°	1726.2	1790.5	1854.7	1918.9	1943.3	1967.8	1992.2	2016.7	2041.1	2065.6	2090.0
100°	1620.2	1682.3	1744.5	1806.6	1830.3	1853.9	1877.6	1901.3	1924.9	1948.6	1972.3
102.5°	1528.2	1589.0	1649.9	1710.7	1733.8	1757.0	1780.1	1803.2	1826.4	1849.5	1872.6
105°	1447.0	1506.8	1566.6	1626.4	1649.5	1672.7	1695.8	1719.0	1742.1	1765.3	1788.4
107.5°	1377.6	1435.5	1493.5	1551.5	1574.4	1597.3	1620.2	1643.1	1665.9	1688.8	1711.7
110°	1307.4	1364.6	1421.8	1479.0	1501.4	1523.7	1546.1	1568.4	1590.8	1613.1	1635.5



TEST NUMBER: P201396

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-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°	1236.4	1292.3	1348.2	1404.1	1426.5	1448.8	1471.2	1493.6	1515.9	1538.3	1560.7
115°	1164.6	1217.9	1271.2	1324.5	1346.6	1368.7	1390.8	1412.9	1435.1	1457.2	1479.3
117.5°	1096.8	1147.8	1198.7	1249.7	1270.5	1291.3	1312.1	1332.9	1353.7	1374.5	1395.3
120°	1028.1	1077.8	1127.4	1177.1	1196.9	1216.6	1236.4	1256.2	1275.9	1295.7	1315.5
122.5°	957.9	1006.8	1055.7	1104.6	1123.8	1143.1	1162.3	1181.5	1200.8	1220.0	1239.2
125°	883.8	930.1	976.4	1022.7	1042.2	1061.7	1081.2	1100.7	1120.2	1139.7	1159.2
127.5°	801.1	843.7	886.4	929.0	948.2	967.5	986.7	1006.0	1025.2	1044.5	1063.7
130°	713.0	752.3	791.5	830.8	848.2	865.6	883.1	900.5	917.9	935.3	952.8
132.5°	635.0	672.1	709.3	746.5	761.1	775.6	790.2	804.8	819.3	833.9	848.5
135°	563.2	598.6	633.9	669.3	681.8	694.3	706.7	719.2	731.7	744.2	756.6
137.5°	489.9	522.4	554.9	587.4	599.6	611.8	624.1	636.3	648.5	660.7	673.0
140°	408.7	436.3	463.8	491.4	504.9	518.4	532.0	545.5	559.0	572.5	586.1
142.5°	339.3	362.7	386.1	409.5	422.2	435.0	447.7	460.5	473.2	486.0	498.7
145°	275.3	295.1	314.8	334.6	347.3	360.1	372.8	385.6	398.3	411.1	423.8
147.5°	220.0	236.3	252.7	269.1	281.3	293.5	305.8	318.0	330.2	342.4	354.7
150°	170.0	183.6	197.1	210.6	222.0	233.5	244.9	256.4	267.8	279.3	290.7
152.5°	125.6	136.0	146.4	156.8	167.7	178.6	189.6	200.5	211.4	222.3	233.3
155°	87.3	95.7	104.0	112.3	121.9	131.5	141.2	150.8	160.4	170.0	179.7
157.5°	55.4	61.1	66.8	72.5	80.6	88.6	96.7	104.8	112.8	120.9	129.0
160°	29.7	33.0	36.4	39.8	46.3	52.8	59.3	65.8	72.3	78.8	85.3
162.5°	11.7	13.3	14.8	16.4	20.6	24.7	28.9	33.0	37.2	41.3	45.5
165°	1.5	1.8	2.0	2.3	4.6	7.0	9.3	11.7	14.0	16.4	18.7
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: P201396

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

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1755.1	1755.1
2.5°	1778.0	1776.2
5°	1818.8	1818.3
7.5°	1853.1	1853.4
10°	1883.3	1883.8
12.5°	1915.3	1916.6
15°	1951.4	1954.0
17.5°	2001.1	2005.5
20°	2056.2	2061.7
22.5°	2107.0	2113.2
25°	2159.7	2167.0
27.5°	2218.7	2227.8
30°	2280.1	2291.0
32.5°	2346.2	2358.9
35°	2427.8	2443.1
37.5°	2524.8	2543.8
40°	2635.8	2658.4
42.5°	2761.1	2787.1
45°	2904.7	2934.6
47.5°	3074.7	3110.1
50°	3260.9	3299.6
52.5°	3454.4	3498.6
55°	3656.9	3704.5
57.5°	3857.4	3908.1
60°	4042.6	4093.0
62.5°	4198.1	4249.8
65°	4314.7	4364.4
67.5°	4386.8	4434.6
70°	4392.3	4437.0
72.5°	4340.2	4383.1
75°	4216.2	4256.8
77.5°	4026.4	4064.9
80°	3782.3	3819.2
82.5°	3505.6	3540.7
85°	3211.5	3243.5
87.5°	2924.4	2955.6
90°	2663.9	2693.5
92.5°	2446.3	2473.6
95°	2266.0	2291.0
97.5°	2114.5	2138.9
100°	1995.9	2019.6
102.5°	1895.8	1918.9
105°	1811.6	1834.7
107.5°	1734.6	1757.5
110°	1657.8	1680.2



TEST NUMBER: P201396

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

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1583.0	1605.4
115°	1501.4	1523.5
117.5°	1416.1	1436.9
120°	1335.2	1355.0
122.5°	1258.5	1277.7
125°	1178.7	1198.2
127.5°	1083.0	1102.2
130°	970.2	987.6
132.5°	863.0	877.6
135°	769.1	781.6
137.5°	685.2	697.4
140°	599.6	613.1
142.5°	511.5	524.2
145°	436.6	449.3
147.5°	366.9	379.1
150°	302.2	313.6
152.5°	244.2	255.1
155°	189.3	198.9
157.5°	137.0	145.1
160°	91.8	98.3
162.5°	49.6	53.8
165°	21.1	23.4
167.5°	0.0	0.0
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)