

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: P201398

Luminaire Tested: **8LBLED-LD4-14-ASYMF-UNV-L850-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201398
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-L850-CD2-U
Description: 8 ft. Low Bay Linear, 9000 lm, Frst Asym lens, 5K
Light Source: (616) 5000K CCT, 80 CRI LEDS
2UT217098A8504C, 2UT217056A8504B
Ballast/Driver: OSRAM
(OT85W01600CC), (OT50W0880CC)

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16085.1 lumens
Efficiency: N/A
Efficacy: 136.9 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

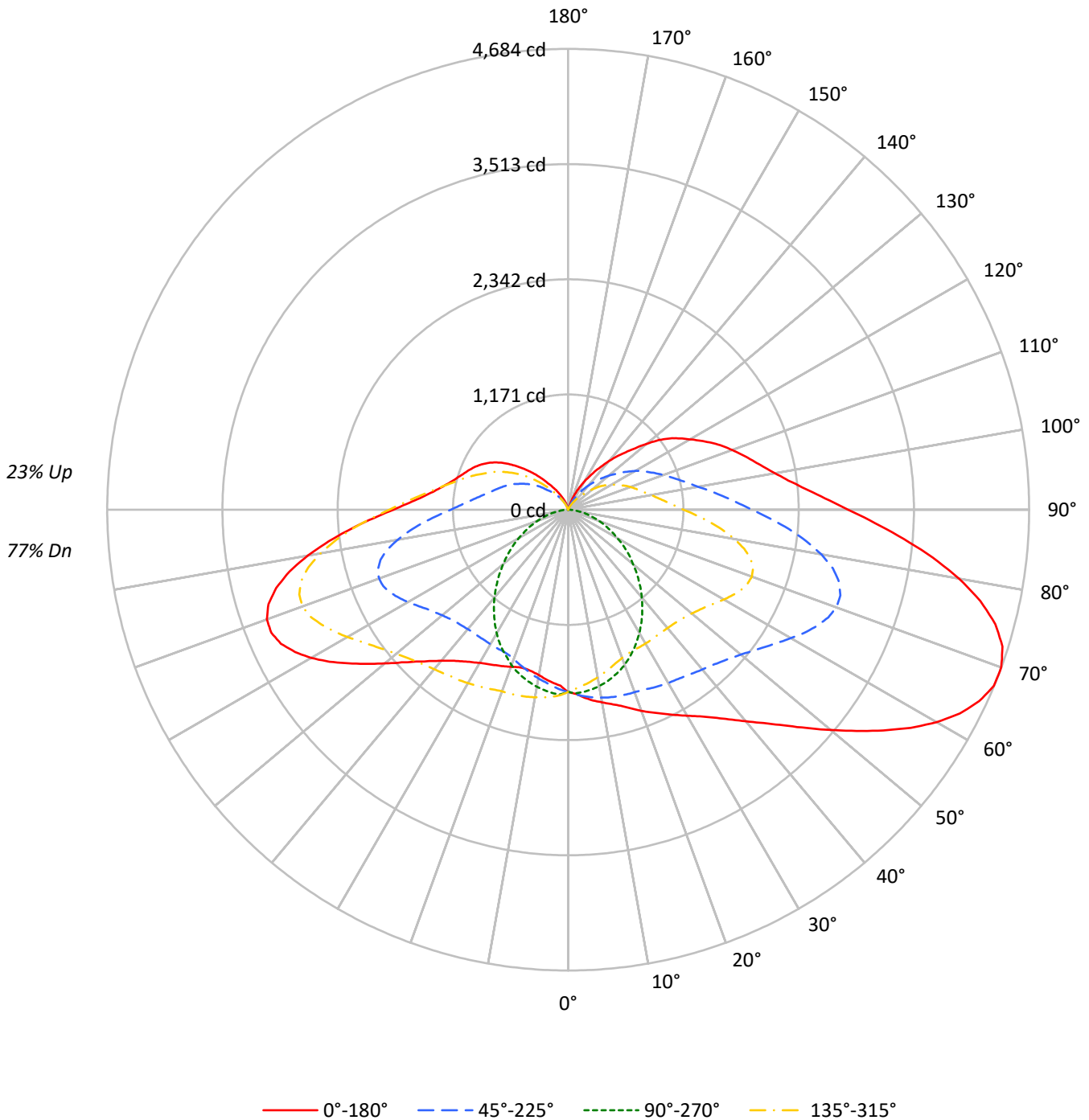
Input Watts (W): 117.46
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	14927	14927	14927	14927
5°	13998	14989	12881	15089
10°	13339	14826	11450	14887
15°	12899	14569	10458	14630
20°	12839	14246	10026	14288
25°	12863	13799	9808	13820
30°	13087	13267	9732	13313
35°	13549	12646	9876	12671
40°	14432	11976	10302	12000
45°	15718	11247	11080	11247
50°	17573	10451	12264	10481
55°	19767	9769	13761	9769
60°	22050	8837	15381	8912
65°	23925	8119	16728	8162
70°	24950	7332	17357	7332
75°	24764	6379	16922	6379
80°	23196	5196	15450	5293
85°	20772	3699	13413	3870



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	1.1
10°-20°	512.9	3.2
20°-30°	827.4	5.1
30°-40°	1122.8	7.0
40°-50°	1444.1	9.0
50°-60°	1851.6	11.5
60°-70°	2264.3	14.1
70°-80°	2307.9	14.3
80°-90°	1800.8	11.2
90°-100°	1254.4	7.8
100°-110°	935.6	5.8
110°-120°	702.3	4.4
120°-130°	476.3	3.0
130°-140°	261.8	1.6
140°-150°	111.3	0.7
150°-160°	32.7	0.2
160°-170°	3.1	0.0
170°-180°	0.0	0.0
0°-30°	1516.2	9.4
0°-40°	2639.0	16.4
0°-60°	5934.7	36.9
0°-90°	12307.6	76.5
90°-120°	2892.3	18.0
90°-150°	3741.7	23.3
90°-180°	3778.0	23.5
0°-180°	16085.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1853	1853	1853	1853	1853	
5°	1919	1858	1766	1870	1919	185
15°	2063	1759	1672	1766	2063	590
25°	2287	1571	1744	1574	2287	1064
35°	2579	1309	1880	1312	2579	1633
45°	3098	1013	2184	1013	3098	2421
55°	3910	721	2722	721	3910	3513
65°	4607	450	3221	452	4607	4538
75°	4493	225	3070	225	4493	4697
85°	3424	52	2211	54	3424	2923
90°	2843	0	1774	0	2843	1565
95°	2418	0	1485	0	2418	1920
105°	1937	0	1191	0	1937	2056
115°	1608	0	1038	2	1608	1596
125°	1265	0	832	2	1265	1128
135°	825	0	546	2	825	649
145°	474	0	292	2	474	305
155°	210	0	133	2	210	101
165°	25	0	22	2	25	11
175°	0	0	0	0	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°	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7
2.5°	1874.9	1874.6	1874.3	1874.1	1873.8	1873.5	1873.2	1873.0	1872.7	1872.4	1873.2
5°	1919.4	1917.7	1916.1	1914.4	1912.8	1911.1	1909.5	1907.8	1906.2	1904.5	1904.5
7.5°	1956.4	1953.9	1951.5	1949.0	1946.5	1944.1	1941.6	1939.1	1936.7	1934.2	1933.1
10°	1988.5	1985.2	1981.9	1978.6	1975.3	1972.1	1968.8	1965.5	1962.2	1958.9	1956.7
12.5°	2023.1	2019.3	2015.4	2011.6	2007.7	2003.9	2000.0	1996.2	1992.3	1988.5	1984.7
15°	2062.6	2058.2	2053.8	2049.4	2045.0	2040.7	2036.3	2031.9	2027.5	2023.1	2016.2
17.5°	2117.0	2111.0	2104.9	2098.9	2092.8	2086.8	2080.7	2074.7	2068.6	2062.6	2052.2
20°	2176.3	2168.3	2160.4	2152.4	2144.4	2136.5	2128.5	2120.5	2112.6	2104.6	2090.1
22.5°	2230.6	2221.0	2211.4	2201.8	2192.2	2182.5	2172.9	2163.3	2153.7	2144.1	2126.0
25°	2287.4	2277.0	2266.6	2256.1	2245.7	2235.3	2224.9	2214.4	2204.0	2193.6	2172.2
27.5°	2351.6	2339.5	2327.5	2315.4	2303.3	2291.3	2279.2	2267.1	2255.1	2243.0	2218.0
30°	2418.3	2404.9	2391.4	2378.0	2364.5	2351.1	2337.6	2324.2	2310.7	2297.3	2267.9
32.5°	2490.0	2474.4	2458.7	2443.1	2427.4	2411.8	2396.1	2380.5	2364.8	2349.2	2315.7
35°	2578.9	2560.5	2542.1	2523.7	2505.3	2487.0	2468.6	2450.2	2431.8	2413.4	2375.0
37.5°	2685.1	2663.7	2642.3	2620.9	2599.5	2578.0	2556.6	2535.2	2513.8	2492.4	2447.9
40°	2806.2	2781.5	2756.8	2732.1	2707.4	2682.6	2657.9	2633.2	2608.5	2583.8	2532.2
42.5°	2942.0	2913.7	2885.5	2857.2	2828.9	2800.7	2772.4	2744.1	2715.9	2687.6	2627.8
45°	3097.7	3065.9	3034.0	3002.2	2970.3	2938.5	2906.6	2874.8	2842.9	2811.1	2741.9
47.5°	3282.9	3246.4	3209.9	3173.4	3136.9	3100.4	3063.9	3027.4	2990.9	2954.4	2874.5
50°	3483.0	3441.8	3400.7	3359.5	3318.3	3277.2	3236.0	3194.8	3153.7	3112.5	3021.1
52.5°	3693.0	3648.3	3603.5	3558.8	3514.0	3469.3	3424.5	3379.8	3335.0	3290.3	3186.6
55°	3910.4	3862.4	3814.3	3766.3	3718.3	3670.2	3622.2	3574.2	3526.1	3478.1	3362.0
57.5°	4125.3	4074.8	4024.3	3973.8	3923.3	3872.7	3822.2	3771.7	3721.2	3670.7	3542.8
60°	4320.4	4269.3	4218.3	4167.2	4116.2	4065.1	4014.1	3963.0	3912.0	3860.9	3722.0
62.5°	4485.9	4435.4	4384.9	4334.4	4283.9	4233.4	4182.9	4132.4	4081.9	4031.4	3884.3
65°	4607.0	4558.4	4509.8	4461.2	4412.6	4364.1	4315.5	4266.9	4218.3	4169.7	4016.5
67.5°	4681.1	4634.2	4587.2	4540.3	4493.4	4446.4	4399.5	4352.6	4305.6	4258.7	4103.3
70°	4683.5	4640.1	4596.8	4553.4	4510.0	4466.7	4423.3	4379.9	4336.6	4293.2	4138.4
72.5°	4626.7	4585.3	4543.8	4502.4	4460.9	4419.5	4378.0	4336.6	4295.1	4253.7	4103.3
75°	4493.3	4454.1	4414.8	4375.6	4336.3	4297.1	4257.8	4218.6	4179.3	4140.1	3996.8
77.5°	4290.8	4253.5	4216.1	4178.8	4141.5	4104.1	4066.8	4029.5	3992.1	3954.8	3821.4
80°	4031.4	3996.3	3961.1	3926.0	3890.9	3855.7	3820.6	3785.5	3750.3	3715.2	3592.5
82.5°	3737.4	3704.2	3671.0	3637.8	3604.6	3571.3	3538.1	3504.9	3471.7	3438.5	3327.3
85°	3423.7	3392.7	3361.7	3330.7	3299.7	3268.6	3237.6	3206.6	3175.6	3144.6	3045.2
87.5°	3119.9	3090.0	3060.1	3030.1	3000.2	2970.3	2940.4	2910.4	2880.5	2850.6	2761.7
90°	2843.2	2815.2	2787.2	2759.2	2731.2	2703.3	2675.3	2647.3	2619.3	2591.3	2510.6
92.5°	2611.0	2584.9	2558.8	2532.8	2506.7	2480.6	2454.5	2428.5	2402.4	2376.3	2302.5
95°	2418.3	2393.6	2368.9	2344.2	2319.5	2294.8	2270.1	2245.4	2220.7	2196.0	2127.1
97.5°	2257.8	2233.9	2210.0	2186.2	2162.3	2138.4	2114.5	2090.7	2066.8	2042.9	1977.6
100°	2131.8	2108.5	2085.1	2061.8	2038.5	2015.1	1991.8	1968.5	1945.1	1921.8	1857.0
102.5°	2025.6	2002.3	1978.9	1955.6	1932.3	1908.9	1885.6	1862.3	1838.9	1815.6	1752.5
105°	1936.6	1913.3	1890.0	1866.6	1843.3	1820.0	1796.7	1773.3	1750.0	1726.7	1664.7
107.5°	1855.1	1832.0	1809.0	1785.9	1762.9	1739.8	1716.8	1693.7	1670.7	1647.6	1586.4
110°	1773.6	1750.8	1728.0	1705.3	1682.5	1659.7	1636.9	1614.2	1591.4	1568.6	1508.8



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	1694.6	1671.5	1648.5	1625.4	1602.4	1579.3	1556.3	1533.2	1510.2	1487.1	1429.2
115°	1608.1	1585.3	1562.5	1539.8	1517.0	1494.2	1471.4	1448.7	1425.9	1403.1	1347.7
117.5°	1516.7	1495.3	1473.9	1452.5	1431.1	1409.6	1388.2	1366.8	1345.4	1324.0	1271.6
120°	1430.3	1410.0	1389.7	1369.4	1349.1	1328.7	1308.4	1288.1	1267.8	1247.5	1196.4
122.5°	1348.7	1328.9	1309.2	1289.4	1269.7	1249.9	1230.2	1210.4	1190.7	1170.9	1120.9
125°	1264.8	1245.3	1225.8	1206.3	1186.8	1167.4	1147.9	1128.4	1108.9	1089.4	1041.1
127.5°	1163.5	1144.8	1126.2	1107.5	1088.8	1070.2	1051.5	1032.8	1014.2	995.5	950.8
130°	1042.4	1025.9	1009.5	993.0	976.5	960.1	943.6	927.1	910.7	894.2	854.7
132.5°	926.3	912.3	898.3	884.3	870.3	856.4	842.4	828.4	814.4	800.4	765.0
135°	825.1	813.3	801.5	789.7	777.9	766.0	754.2	742.4	730.6	718.8	686.4
137.5°	736.1	725.1	714.1	703.2	692.2	681.2	670.2	659.3	648.3	637.3	607.9
140°	647.2	636.5	625.8	615.1	604.4	593.7	583.0	572.3	561.6	550.9	525.4
142.5°	553.3	544.8	536.3	527.8	519.3	510.8	502.3	493.8	485.3	476.8	454.3
145°	474.3	466.9	459.5	452.1	444.7	437.2	429.8	422.4	415.0	407.6	387.8
147.5°	400.2	393.6	387.0	380.4	373.8	367.3	360.7	354.1	347.5	340.9	323.9
150°	331.0	325.5	320.0	314.5	309.0	303.6	298.1	292.6	287.1	281.6	266.8
152.5°	269.3	264.4	259.4	254.5	249.5	244.6	239.6	234.7	229.7	224.8	212.2
155°	210.0	205.9	201.8	197.6	193.5	189.4	185.3	181.1	177.0	172.9	161.9
157.5°	153.2	149.9	146.6	143.3	140.0	136.7	133.4	130.1	126.8	123.5	114.7
160°	103.7	100.7	97.7	94.7	91.7	88.6	85.6	82.6	79.6	76.6	70.8
162.5°	56.8	55.2	53.5	51.9	50.2	48.6	46.9	45.3	43.6	42.0	38.4
165°	24.7	23.9	23.1	22.2	21.4	20.6	19.8	18.9	18.1	17.3	15.7
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



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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°	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7
2.5°	1874.0	1874.9	1875.7	1876.5	1877.3	1878.2	1879.0	1879.8	1876.8	1873.8	1870.8
5°	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1899.6	1894.6	1889.7
7.5°	1932.0	1930.9	1929.8	1928.7	1927.6	1926.5	1925.4	1924.3	1917.4	1910.6	1903.7
10°	1954.5	1952.3	1950.1	1947.9	1945.7	1943.5	1941.3	1939.1	1930.0	1921.0	1911.9
12.5°	1980.8	1977.0	1973.1	1969.3	1965.4	1961.6	1957.7	1953.9	1942.1	1930.3	1918.5
15°	2009.4	2002.5	1995.7	1988.8	1982.0	1975.1	1968.3	1961.4	1947.4	1933.4	1919.4
17.5°	2041.8	2031.3	2020.9	2010.5	2000.1	1989.6	1979.2	1968.8	1952.1	1935.3	1918.6
20°	2075.5	2061.0	2046.4	2031.9	2017.3	2002.8	1988.2	1973.7	1953.7	1933.6	1913.6
22.5°	2107.9	2089.8	2071.7	2053.5	2035.4	2017.3	1999.2	1981.1	1957.2	1933.3	1909.5
25°	2150.8	2129.4	2108.0	2086.5	2065.1	2043.7	2022.3	2000.9	1971.3	1941.6	1912.0
27.5°	2193.0	2168.1	2143.1	2118.1	2093.1	2068.2	2043.2	2018.2	1982.8	1947.4	1912.0
30°	2238.6	2209.2	2179.8	2150.5	2121.1	2091.7	2062.4	2033.0	1991.6	1950.1	1908.7
32.5°	2282.2	2248.7	2215.2	2181.8	2148.3	2114.8	2081.3	2047.8	2000.6	1953.4	1906.2
35°	2336.6	2298.1	2259.7	2221.3	2182.9	2144.4	2106.0	2067.6	2014.1	1960.6	1907.0
37.5°	2403.5	2359.0	2314.6	2270.1	2225.7	2181.2	2136.8	2092.3	2032.5	1972.6	1912.8
40°	2480.6	2429.0	2377.4	2325.8	2274.2	2222.6	2171.0	2119.4	2053.3	1987.1	1921.0
42.5°	2567.9	2508.1	2448.3	2388.4	2328.6	2268.8	2208.9	2149.1	2076.4	2003.6	1930.9
45°	2672.8	2603.6	2534.4	2465.3	2396.1	2326.9	2257.8	2188.6	2108.2	2027.8	1947.3
47.5°	2794.6	2714.8	2634.9	2555.0	2475.1	2395.3	2315.4	2235.5	2146.6	2057.7	1968.7
50°	2929.7	2838.3	2746.9	2655.5	2564.1	2472.7	2381.3	2289.9	2191.9	2093.9	1995.9
52.5°	3082.8	2979.1	2875.3	2771.6	2667.8	2564.1	2460.3	2356.6	2248.2	2139.8	2031.4
55°	3245.9	3129.8	3013.7	2897.6	2781.5	2665.4	2549.3	2433.2	2313.8	2194.4	2075.0
57.5°	3414.9	3287.0	3159.1	3031.2	2903.3	2775.4	2647.5	2519.6	2388.1	2256.7	2125.2
60°	3583.1	3444.3	3305.4	3166.5	3027.6	2888.8	2749.9	2611.0	2467.5	2323.9	2180.4
62.5°	3737.2	3590.1	3443.0	3295.8	3148.7	3001.6	2854.5	2707.4	2551.2	2395.0	2238.9
65°	3863.4	3710.2	3557.1	3403.9	3250.8	3097.6	2944.5	2791.3	2623.6	2455.9	2288.2
67.5°	3948.0	3792.6	3637.3	3481.9	3326.6	3171.2	3015.9	2860.5	2682.4	2504.2	2326.1
70°	3983.6	3828.8	3674.0	3519.2	3364.4	3209.6	3054.8	2900.0	2714.5	2528.9	2343.4
72.5°	3952.9	3802.5	3652.1	3501.6	3351.2	3200.8	3050.4	2900.0	2710.3	2520.7	2331.0
75°	3853.5	3710.3	3567.0	3423.7	3280.4	3137.2	2993.9	2850.6	2661.8	2472.9	2284.1
77.5°	3688.0	3554.6	3421.2	3287.9	3154.5	3021.1	2887.7	2754.3	2570.7	2387.1	2203.4
80°	3469.8	3347.1	3224.4	3101.8	2979.1	2856.4	2733.7	2611.0	2436.7	2262.4	2088.1
82.5°	3216.2	3105.0	2993.9	2882.7	2771.6	2660.4	2549.3	2438.1	2275.6	2113.1	1950.6
85°	2945.9	2846.5	2747.2	2647.8	2548.5	2449.1	2349.8	2250.4	2101.1	1951.8	1802.5
87.5°	2672.8	2583.8	2494.9	2406.0	2317.1	2228.1	2139.2	2050.3	1915.3	1780.2	1645.2
90°	2429.9	2349.2	2268.5	2187.8	2107.1	2026.4	1945.7	1865.0	1742.3	1619.6	1496.9
92.5°	2228.7	2154.8	2081.0	2007.2	1933.4	1859.5	1785.7	1711.9	1600.2	1488.5	1376.8
95°	2058.2	1989.3	1920.4	1851.6	1782.7	1713.8	1644.9	1576.0	1473.3	1370.7	1268.0
97.5°	1912.3	1846.9	1781.6	1716.3	1651.0	1585.6	1520.3	1455.0	1359.5	1264.0	1168.4
100°	1792.3	1727.5	1662.7	1598.0	1533.2	1468.4	1403.7	1338.9	1250.8	1162.7	1074.6
102.5°	1689.4	1626.2	1563.1	1500.0	1436.9	1373.7	1310.6	1247.5	1164.1	1080.6	997.2
105°	1602.6	1540.6	1478.6	1416.5	1354.5	1292.5	1230.4	1168.4	1088.8	1009.2	929.6
107.5°	1525.2	1464.0	1402.8	1341.6	1280.4	1219.2	1158.0	1096.8	1020.5	944.2	867.9
110°	1448.9	1389.1	1329.3	1269.4	1209.6	1149.8	1089.9	1030.1	956.8	883.5	810.2



TEST NUMBER: P201398

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	1371.3	1313.4	1255.5	1197.5	1139.6	1081.7	1023.8	965.9	896.2	826.5	756.7
115°	1292.2	1236.8	1181.3	1125.9	1070.4	1015.0	959.5	904.1	837.4	770.7	704.0
117.5°	1219.2	1166.7	1114.3	1061.9	1009.5	957.0	904.6	852.2	788.3	724.3	660.4
120°	1145.4	1094.3	1043.3	992.2	941.2	890.1	839.1	788.0	728.2	668.3	608.5
122.5°	1071.0	1021.0	971.1	921.1	871.2	821.2	771.3	721.3	666.1	611.0	555.8
125°	992.8	944.5	896.2	847.8	799.5	751.2	702.9	654.6	603.8	553.0	502.3
127.5°	906.0	861.3	816.6	771.8	727.1	682.4	637.6	592.9	546.2	499.6	452.9
130°	815.2	775.6	736.1	696.6	657.1	617.5	578.0	538.5	495.4	452.3	409.2
132.5°	729.6	694.2	658.8	623.3	587.9	552.5	517.1	481.7	442.2	402.7	363.1
135°	654.0	621.6	589.2	556.9	524.5	492.1	459.7	427.3	391.6	355.9	320.3
137.5°	578.6	549.2	519.8	490.5	461.1	431.7	402.4	373.0	340.9	308.8	276.7
140°	499.8	474.3	448.8	423.2	397.7	372.2	346.6	321.1	292.3	263.5	234.7
142.5°	431.8	409.3	386.8	364.2	341.7	319.2	296.7	274.2	248.7	223.2	197.6
145°	368.1	348.3	328.5	308.8	289.0	269.2	249.5	229.7	207.5	185.2	163.0
147.5°	306.9	289.8	272.8	255.8	238.8	221.7	204.7	187.7	168.8	149.8	130.9
150°	252.0	237.1	222.3	207.5	192.7	177.8	163.0	148.2	132.8	117.5	102.1
152.5°	199.6	186.9	174.3	161.7	149.1	136.4	123.8	111.2	99.4	87.6	75.8
155°	150.9	140.0	129.0	118.0	107.0	96.1	85.1	74.1	66.1	58.2	50.2
157.5°	105.9	97.2	88.4	79.6	70.8	62.1	53.3	44.5	39.6	34.6	29.7
160°	65.1	59.3	53.5	47.8	42.0	36.2	30.5	24.7	22.0	19.2	16.5
162.5°	34.9	31.3	27.7	24.2	20.6	17.0	13.5	9.9	8.8	7.7	6.6
165°	14.0	12.4	10.7	9.1	7.4	5.8	4.1	2.5	2.2	1.9	1.7
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: P201398

CATALOG NUMBER: 8LBLELD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7
2.5°	1867.8	1864.7	1861.7	1858.7	1855.7	1852.7	1854.3	1856.0	1857.6	1859.3	1860.9
5°	1884.8	1879.8	1874.9	1870.0	1865.0	1860.1	1859.8	1859.5	1859.3	1859.0	1858.7
7.5°	1896.8	1890.0	1883.1	1876.2	1869.4	1862.5	1860.3	1858.1	1855.9	1853.7	1851.6
10°	1902.9	1893.8	1884.8	1875.7	1866.7	1857.6	1853.5	1849.4	1845.2	1841.1	1837.0
12.5°	1906.7	1894.9	1883.1	1871.3	1859.5	1847.7	1841.7	1835.6	1829.6	1823.6	1817.5
15°	1905.4	1891.4	1877.4	1863.4	1849.4	1835.4	1826.9	1818.4	1809.9	1801.4	1792.8
17.5°	1901.8	1885.1	1868.3	1851.6	1834.8	1818.1	1807.4	1796.7	1786.0	1775.3	1764.5
20°	1893.6	1873.5	1853.5	1833.5	1813.4	1793.4	1780.5	1767.6	1754.7	1741.8	1728.9
22.5°	1885.6	1861.7	1837.8	1814.0	1790.1	1766.2	1750.6	1734.9	1719.3	1703.6	1688.0
25°	1882.3	1852.7	1823.0	1793.4	1763.7	1734.1	1716.0	1697.9	1679.8	1661.7	1643.5
27.5°	1876.6	1841.1	1805.7	1770.3	1734.9	1699.5	1678.4	1657.2	1636.1	1615.0	1593.8
30°	1867.2	1825.8	1784.3	1742.9	1701.4	1660.0	1636.4	1612.8	1589.2	1565.6	1541.9
32.5°	1859.0	1811.7	1764.5	1717.3	1670.1	1622.9	1595.7	1568.6	1541.4	1514.2	1487.1
35°	1853.5	1800.0	1746.5	1692.9	1639.4	1585.9	1555.2	1524.4	1493.7	1462.9	1432.2
37.5°	1853.0	1793.1	1733.3	1673.5	1613.6	1553.8	1518.4	1483.0	1447.6	1412.2	1376.7
40°	1854.8	1788.7	1722.5	1656.4	1590.2	1524.1	1484.0	1444.0	1403.9	1363.8	1323.8
42.5°	1858.2	1785.4	1712.7	1640.0	1567.2	1494.5	1449.5	1404.5	1359.5	1314.5	1269.4
45°	1866.9	1786.5	1706.1	1625.6	1545.2	1464.8	1414.6	1364.4	1314.1	1263.9	1213.7
47.5°	1879.8	1790.9	1702.0	1613.0	1524.1	1435.2	1380.0	1324.9	1269.7	1214.5	1159.4
50°	1897.9	1800.0	1702.0	1604.0	1506.0	1408.0	1347.1	1286.1	1225.2	1164.3	1103.3
52.5°	1923.0	1814.5	1706.1	1597.7	1489.3	1380.9	1315.8	1250.8	1185.7	1120.7	1055.6
55°	1955.6	1836.2	1716.8	1597.4	1478.0	1358.6	1287.8	1217.0	1146.2	1075.4	1004.5
57.5°	1993.7	1862.3	1730.8	1599.3	1467.9	1336.4	1260.4	1184.3	1108.3	1032.3	956.2
60°	2036.8	1893.3	1749.7	1606.2	1462.6	1319.1	1236.2	1153.3	1070.4	987.5	904.7
62.5°	2082.7	1926.5	1770.3	1614.2	1458.0	1301.8	1214.2	1126.7	1039.1	951.6	864.0
65°	2120.5	1952.8	1785.1	1617.4	1449.7	1282.0	1189.5	1097.0	1004.5	912.0	819.6
67.5°	2148.0	1969.8	1791.7	1613.6	1435.4	1257.3	1161.0	1064.6	968.3	872.0	775.6
70°	2157.9	1972.3	1786.8	1601.3	1415.7	1230.2	1130.6	1030.9	931.3	831.7	732.0
72.5°	2141.4	1951.7	1762.1	1572.4	1382.8	1193.1	1091.3	989.5	887.6	785.8	684.0
75°	2095.3	1906.4	1717.6	1528.8	1339.9	1151.1	1048.2	945.3	842.3	739.4	636.5
77.5°	2019.8	1836.2	1652.6	1468.9	1285.3	1101.7	998.8	895.9	792.9	690.0	587.1
80°	1913.8	1739.6	1565.3	1391.0	1216.7	1042.4	940.9	839.3	737.8	636.2	534.7
82.5°	1788.1	1625.7	1463.2	1300.7	1138.2	975.7	876.9	778.1	679.3	580.5	481.7
85°	1653.2	1503.8	1354.5	1205.2	1055.9	906.6	811.6	716.7	621.7	526.7	431.8
87.5°	1510.1	1375.1	1240.0	1105.0	969.9	834.9	744.3	653.8	563.2	472.6	382.1
90°	1374.2	1251.6	1128.9	1006.2	883.5	760.8	676.3	591.7	507.2	422.7	338.1
92.5°	1265.1	1153.3	1041.6	929.9	818.2	706.5	628.0	549.5	471.0	392.5	314.0
95°	1165.4	1062.7	960.1	857.4	754.8	652.1	579.6	507.2	434.7	362.3	289.8
97.5°	1072.9	977.4	881.9	786.3	690.8	595.3	529.2	463.0	396.9	330.7	264.6
100°	986.5	898.3	810.2	722.1	634.0	545.9	485.2	424.6	363.9	303.3	242.6
102.5°	913.7	830.3	746.8	663.4	579.9	496.5	441.3	386.2	331.0	275.8	220.7
105°	850.0	770.4	690.8	611.2	531.6	452.0	401.8	351.6	301.3	251.1	200.9
107.5°	791.6	715.3	639.0	562.7	486.4	410.1	364.5	319.0	273.4	227.8	182.3
110°	736.9	663.7	590.4	517.1	443.8	370.5	329.3	288.2	247.0	205.8	164.7



TEST NUMBER: P201398

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	687.0	617.3	547.6	477.8	408.1	338.4	300.8	263.2	225.6	188.0	150.4
115°	637.3	570.6	503.9	437.2	370.5	303.8	270.0	236.3	202.5	168.8	135.0
117.5°	596.4	532.5	468.5	404.6	340.6	276.7	246.0	215.2	184.5	153.7	123.0
120°	548.7	488.8	429.0	369.2	309.3	249.5	221.8	194.1	166.3	138.6	110.9
122.5°	500.6	445.5	390.3	335.1	280.0	224.8	199.8	174.8	149.9	124.9	99.9
125°	451.5	400.7	349.9	299.2	248.4	197.6	175.6	153.7	131.7	109.8	87.8
127.5°	406.2	359.6	312.9	266.2	219.6	172.9	153.7	134.5	115.3	96.1	76.8
130°	366.1	323.1	280.0	236.9	193.8	150.7	134.0	117.2	100.5	83.7	67.0
132.5°	323.6	284.1	244.6	205.0	165.5	126.0	112.0	98.0	84.0	70.0	56.0
135°	284.6	248.9	213.2	177.6	141.9	106.2	94.4	82.6	70.8	59.0	47.2
137.5°	244.6	212.4	180.3	148.2	116.1	84.0	74.7	65.3	56.0	46.7	37.3
140°	205.9	177.0	148.2	119.4	90.6	61.8	54.9	48.1	41.2	34.3	27.5
142.5°	172.1	146.6	121.1	95.5	70.0	44.5	39.6	34.6	29.7	24.7	19.8
145°	140.8	118.5	96.3	74.1	51.8	29.6	26.3	23.0	19.7	16.4	13.2
147.5°	112.0	93.0	74.1	55.2	36.2	17.3	15.4	13.5	11.5	9.6	7.7
150°	86.7	71.4	56.0	40.6	25.3	9.9	8.8	7.7	6.6	5.5	4.4
152.5°	64.0	52.1	40.3	28.5	16.7	4.9	4.4	3.8	3.3	2.7	2.2
155°	42.3	34.3	26.4	18.4	10.5	2.5	2.2	1.9	1.7	1.4	1.1
157.5°	24.7	19.8	14.8	9.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	13.7	11.0	8.2	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	5.5	4.4	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.4	1.1	0.8	0.6	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: P201398

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7
2.5°	1862.6	1864.2	1865.9	1867.5	1863.4	1859.3	1855.1	1851.0	1846.9	1842.8	1838.6
5°	1858.4	1858.2	1857.9	1857.6	1852.4	1847.2	1842.0	1836.8	1831.5	1826.3	1821.1
7.5°	1849.4	1847.2	1845.0	1842.8	1836.2	1829.6	1823.0	1816.4	1809.9	1803.3	1796.7
10°	1832.9	1828.7	1824.6	1820.5	1813.1	1805.7	1798.3	1790.9	1783.5	1776.1	1768.7
12.5°	1811.5	1805.5	1799.4	1793.4	1784.9	1776.4	1767.9	1759.4	1750.8	1742.3	1733.8
15°	1784.3	1775.8	1767.3	1758.8	1750.0	1741.2	1732.4	1723.6	1714.9	1706.1	1697.3
17.5°	1753.8	1743.1	1732.4	1721.7	1712.6	1703.6	1694.5	1685.5	1676.4	1667.4	1658.3
20°	1716.0	1703.1	1690.2	1677.3	1668.0	1658.6	1649.3	1640.0	1630.6	1621.3	1612.0
22.5°	1672.3	1656.7	1641.0	1625.4	1616.6	1607.8	1599.1	1590.3	1581.5	1572.7	1564.0
25°	1625.4	1607.3	1589.2	1571.1	1562.9	1554.6	1546.4	1538.2	1529.9	1521.7	1513.5
27.5°	1572.7	1551.6	1530.4	1509.3	1502.2	1495.0	1487.9	1480.8	1473.6	1466.5	1459.4
30°	1518.3	1494.7	1471.1	1447.5	1440.9	1434.3	1427.8	1421.2	1414.6	1408.0	1401.5
32.5°	1459.9	1432.7	1405.6	1378.4	1373.7	1369.1	1364.4	1359.7	1355.1	1350.4	1345.7
35°	1401.4	1370.7	1339.9	1309.2	1306.7	1304.3	1301.8	1299.3	1296.9	1294.4	1291.9
37.5°	1341.3	1305.9	1270.5	1235.1	1235.6	1236.2	1236.7	1237.3	1237.8	1238.4	1238.9
40°	1283.7	1243.6	1203.6	1163.5	1167.6	1171.7	1175.8	1179.9	1184.1	1188.2	1192.3
42.5°	1224.4	1179.4	1134.4	1089.4	1097.9	1106.4	1114.9	1123.4	1131.9	1140.4	1148.9
45°	1163.5	1113.2	1063.0	1012.8	1026.0	1039.2	1052.3	1065.5	1078.7	1091.9	1105.0
47.5°	1104.2	1049.0	993.9	938.7	956.3	973.8	991.4	1009.0	1026.5	1044.1	1061.7
50°	1042.4	981.5	920.5	859.6	882.4	905.2	928.0	950.8	973.5	996.3	1019.1
52.5°	990.6	925.5	860.5	795.4	822.3	849.2	876.1	903.0	929.9	956.8	983.7
55°	933.7	862.9	792.1	721.3	753.1	785.0	816.8	848.6	880.5	912.3	944.1
57.5°	880.2	804.2	728.1	652.1	689.2	726.2	763.3	800.3	837.4	874.4	911.5
60°	821.8	738.9	656.0	573.1	615.9	658.7	701.5	744.3	787.2	830.0	872.8
62.5°	776.5	688.9	601.4	513.8	560.5	607.1	653.8	700.4	747.1	793.7	840.4
65°	727.1	634.6	542.1	449.6	500.4	551.2	601.9	652.7	703.5	754.3	805.0
67.5°	679.3	583.0	486.6	390.3	444.6	499.0	553.3	607.7	662.0	716.4	770.7
70°	632.4	532.8	433.1	333.5	390.6	447.7	504.8	561.9	618.9	676.0	733.1
72.5°	582.2	480.3	378.5	276.7	335.7	394.7	453.7	512.7	571.8	630.8	689.8
75°	533.6	430.6	327.7	224.8	284.9	345.0	405.1	465.2	525.4	585.5	645.6
77.5°	484.2	381.2	278.3	175.4	236.1	296.7	357.4	418.0	478.7	539.3	600.0
80°	433.1	331.6	230.0	128.5	188.9	249.3	309.6	370.0	430.4	490.8	551.1
82.5°	382.9	284.1	185.3	86.5	145.8	205.1	264.3	323.6	382.9	442.2	501.4
85°	336.8	241.8	146.9	51.9	108.4	165.0	221.5	278.0	334.6	391.1	447.6
87.5°	291.5	200.9	110.4	19.8	74.4	129.0	183.6	238.2	292.9	347.5	402.1
90°	253.6	169.1	84.5	0.0	51.3	102.6	154.0	205.3	256.6	307.9	359.3
92.5°	235.5	157.0	78.5	0.0	47.8	95.5	143.3	191.0	238.8	286.5	334.3
95°	217.4	144.9	72.5	0.0	44.5	88.9	133.4	177.9	222.3	266.8	311.3
97.5°	198.4	132.3	66.1	0.0	40.9	81.8	122.7	163.6	204.5	245.4	286.3
100°	182.0	121.3	60.7	0.0	37.9	75.8	113.6	151.5	189.4	227.3	265.1
102.5°	165.5	110.3	55.2	0.0	34.9	69.7	104.6	139.4	174.3	209.1	244.0
105°	150.7	100.4	50.2	0.0	31.8	63.7	95.5	127.3	159.2	191.0	222.8
107.5°	136.7	91.1	45.6	0.0	29.1	58.2	87.3	116.4	145.4	174.5	203.6
110°	123.5	82.3	41.2	0.0	26.6	53.2	79.9	106.5	133.1	159.7	186.4



TEST NUMBER: P201398

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	112.8	75.2	37.6	0.0	24.2	48.3	72.5	96.6	120.8	144.9	169.1
115°	101.3	67.5	33.8	0.0	21.4	42.8	64.2	85.6	107.1	128.5	149.9
117.5°	92.2	61.5	30.7	0.0	19.2	38.4	57.6	76.8	96.1	115.3	134.5
120°	83.2	55.4	27.7	0.0	17.3	34.6	51.9	69.2	86.4	103.7	121.0
122.5°	74.9	50.0	25.0	0.0	15.4	30.7	46.1	61.5	76.8	92.2	107.6
125°	65.9	43.9	22.0	0.0	13.7	27.4	41.2	54.9	68.6	82.3	96.1
127.5°	57.6	38.4	19.2	0.0	11.8	23.6	35.4	47.2	59.0	70.8	82.6
130°	50.2	33.5	16.7	0.0	9.9	19.8	29.6	39.5	49.4	59.3	69.1
132.5°	42.0	28.0	14.0	0.0	8.2	16.5	24.7	32.9	41.2	49.4	57.6
135°	35.4	23.6	11.8	0.0	6.6	13.2	19.8	26.4	32.9	39.5	46.1
137.5°	28.0	18.7	9.3	0.0	4.9	9.9	14.8	19.8	24.7	29.7	34.6
140°	20.6	13.7	6.9	0.0	3.6	7.1	10.7	14.3	17.8	21.4	25.0
142.5°	14.8	9.9	4.9	0.0	2.2	4.4	6.6	8.8	11.0	13.2	15.4
145°	9.9	6.6	3.3	0.0	1.4	2.8	4.1	5.5	6.9	8.3	9.6
147.5°	5.8	3.8	1.9	0.0	1.1	2.2	3.3	4.4	5.5	6.6	7.7
150°	3.3	2.2	1.1	0.0	0.8	1.6	2.5	3.3	4.1	4.9	5.8
152.5°	1.6	1.1	0.5	0.0	0.5	1.1	1.6	2.2	2.7	3.3	3.8
155°	0.8	0.6	0.3	0.0	0.3	0.6	0.8	1.1	1.4	1.7	1.9
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: P201398

CATALOG NUMBER: 8LBLEDD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7
2.5°	1834.5	1830.4	1829.3	1828.2	1827.1	1826.0	1824.9	1823.8	1822.7	1821.6	1820.5
5°	1815.9	1810.7	1808.5	1806.3	1804.1	1801.9	1799.7	1797.5	1795.3	1793.1	1790.9
7.5°	1790.1	1783.5	1781.0	1778.6	1776.1	1773.6	1771.2	1768.7	1766.2	1763.8	1761.3
10°	1761.3	1753.9	1751.2	1748.4	1745.7	1742.9	1740.2	1737.4	1734.7	1731.9	1729.2
12.5°	1725.3	1716.8	1714.3	1711.9	1709.4	1706.9	1704.5	1702.0	1699.5	1697.1	1694.6
15°	1688.5	1679.7	1677.8	1675.9	1674.0	1672.1	1670.1	1668.2	1666.3	1664.4	1662.5
17.5°	1649.3	1640.2	1639.1	1638.0	1636.9	1635.8	1634.7	1633.6	1632.5	1631.4	1630.3
20°	1602.6	1593.3	1594.4	1595.5	1596.6	1597.7	1598.8	1599.9	1601.0	1602.1	1603.2
22.5°	1555.2	1546.4	1550.5	1554.6	1558.7	1562.8	1567.0	1571.1	1575.2	1579.3	1583.4
25°	1505.2	1497.0	1505.5	1514.0	1522.5	1531.0	1539.5	1548.0	1556.5	1565.0	1573.5
27.5°	1452.2	1445.1	1459.4	1473.6	1487.9	1502.2	1516.4	1530.7	1545.0	1559.2	1573.5
30°	1394.9	1388.3	1408.6	1428.9	1449.2	1469.5	1489.9	1510.2	1530.5	1550.8	1571.1
32.5°	1341.1	1336.4	1362.2	1388.0	1413.8	1439.6	1465.4	1491.2	1517.0	1542.8	1568.6
35°	1289.5	1287.0	1318.0	1349.0	1380.0	1411.0	1442.1	1473.1	1504.1	1535.1	1566.1
37.5°	1239.5	1240.0	1276.2	1312.5	1348.7	1384.9	1421.2	1457.4	1493.6	1529.9	1566.1
40°	1196.4	1200.5	1241.7	1282.9	1324.0	1365.2	1406.4	1447.6	1488.7	1529.9	1571.1
42.5°	1157.4	1165.9	1211.7	1257.6	1303.4	1349.3	1395.1	1441.0	1486.8	1532.7	1578.5
45°	1118.2	1131.4	1182.7	1234.0	1285.4	1336.7	1388.0	1439.3	1490.7	1542.0	1593.3
47.5°	1079.2	1096.8	1154.2	1211.5	1268.9	1326.3	1383.6	1441.0	1498.4	1555.7	1613.1
50°	1041.9	1064.7	1128.6	1192.6	1256.5	1320.5	1384.4	1448.4	1512.3	1576.3	1640.2
52.5°	1010.6	1037.5	1108.3	1179.1	1249.9	1320.7	1391.6	1462.4	1533.2	1604.0	1674.8
55°	976.0	1007.8	1086.6	1165.4	1244.1	1322.9	1401.7	1480.5	1559.2	1638.0	1716.8
57.5°	948.5	985.6	1072.6	1159.6	1246.6	1333.6	1420.7	1507.7	1594.7	1681.7	1768.7
60°	915.6	958.4	1054.7	1151.1	1247.4	1343.8	1440.1	1536.5	1632.8	1729.2	1825.5
62.5°	887.0	933.7	1039.1	1144.5	1249.9	1355.3	1460.7	1566.1	1671.5	1776.9	1882.3
65°	855.8	906.6	1020.8	1135.0	1249.1	1363.3	1477.5	1591.7	1705.8	1820.0	1934.2
67.5°	825.1	879.4	1000.7	1122.0	1243.3	1364.6	1486.0	1607.3	1728.6	1849.9	1971.2
70°	790.2	847.3	973.8	1100.4	1226.9	1353.4	1480.0	1606.5	1733.0	1859.6	1986.1
72.5°	748.8	807.8	936.8	1065.8	1194.8	1323.8	1452.8	1581.8	1710.8	1839.8	1968.8
75°	705.7	765.8	893.7	1021.6	1149.5	1277.4	1405.3	1533.2	1661.1	1789.0	1916.9
77.5°	660.6	721.3	844.5	967.8	1091.0	1214.2	1337.5	1460.7	1583.9	1707.2	1830.4
80°	611.5	671.9	787.7	903.5	1019.4	1135.2	1251.0	1366.8	1482.7	1598.5	1714.3
82.5°	560.7	620.0	727.0	834.1	941.1	1048.2	1155.2	1262.3	1369.3	1476.4	1583.4
85°	504.2	560.7	659.0	757.2	855.5	953.8	1052.0	1150.3	1248.6	1346.8	1445.1
87.5°	456.7	511.3	599.1	687.0	774.8	862.6	950.5	1038.3	1126.1	1214.0	1301.8
90°	410.6	461.9	540.7	619.5	698.2	777.0	855.8	934.6	1013.3	1092.1	1170.9
92.5°	382.0	429.8	500.9	572.0	643.1	714.2	785.2	856.3	927.4	998.5	1069.6
95°	355.7	400.2	465.5	530.8	596.2	661.5	726.8	792.1	857.5	922.8	988.1
97.5°	327.2	368.1	429.0	490.0	550.9	611.8	672.8	733.7	794.6	855.6	916.5
100°	303.0	340.9	398.0	455.1	512.2	569.3	626.3	683.4	740.5	797.6	854.7
102.5°	278.8	313.7	368.0	422.4	476.7	531.1	585.4	639.8	694.1	748.5	802.8
105°	254.7	286.5	338.7	390.8	443.0	495.1	547.3	599.4	651.6	703.7	755.9
107.5°	232.7	261.8	312.0	362.3	412.5	462.7	513.0	563.2	613.4	663.7	713.9
110°	213.0	239.6	287.9	336.2	384.5	432.8	481.2	529.5	577.8	626.1	674.4



TEST NUMBER: P201398

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	193.2	217.4	263.8	310.2	356.5	402.9	449.3	495.7	542.0	588.4	634.8
115°	171.3	192.7	236.6	280.5	324.4	368.3	412.3	456.2	500.1	544.0	587.9
117.5°	153.7	172.9	214.6	256.3	298.1	339.8	381.5	423.2	465.0	506.7	548.4
120°	138.3	155.6	194.6	233.6	272.5	311.5	350.5	389.5	428.4	467.4	506.4
122.5°	122.9	138.3	174.5	210.8	247.0	283.2	319.5	355.7	391.9	428.2	464.4
125°	109.8	123.5	156.7	189.9	223.1	256.3	289.6	322.8	356.0	389.2	422.4
127.5°	94.4	106.2	136.1	166.0	196.0	225.9	255.8	285.7	315.7	345.6	375.5
130°	79.0	88.9	115.0	141.1	167.1	193.2	219.3	245.4	271.4	297.5	323.6
132.5°	65.9	74.1	96.1	118.0	140.0	161.9	183.9	205.8	227.8	249.7	271.7
135°	52.7	59.3	78.5	97.7	116.9	136.1	155.4	174.6	193.8	213.0	232.2
137.5°	39.6	44.5	61.2	78.0	94.7	111.4	128.2	144.9	161.6	178.4	195.1
140°	28.5	32.1	46.6	61.2	75.7	90.3	104.8	119.4	133.9	148.5	163.0
142.5°	17.6	19.8	32.4	45.0	57.7	70.3	82.9	95.5	108.2	120.8	133.4
145°	11.0	12.4	22.8	33.2	43.7	54.1	64.5	74.9	85.4	95.8	106.2
147.5°	8.8	9.9	18.1	26.4	34.6	42.8	51.1	59.3	67.5	75.8	84.0
150°	6.6	7.4	13.7	20.0	26.3	32.6	39.0	45.3	51.6	57.9	64.2
152.5°	4.4	4.9	9.6	14.2	18.9	23.6	28.2	32.9	37.6	42.2	46.9
155°	2.2	2.5	5.5	8.5	11.5	14.5	17.6	20.6	23.6	26.6	29.6
157.5°	0.0	0.0	1.6	3.3	4.9	6.6	8.2	9.9	11.5	13.2	14.8
160°	0.0	0.0	0.5	1.1	1.6	2.2	2.7	3.3	3.8	4.4	4.9
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: P201398

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7
2.5°	1819.1	1817.8	1816.4	1815.0	1813.7	1812.3	1810.9	1809.6	1808.2	1806.3	1804.4
5°	1789.0	1787.1	1785.1	1783.2	1781.3	1779.4	1777.4	1775.5	1773.6	1772.8	1772.0
7.5°	1759.1	1756.9	1754.7	1752.5	1750.3	1748.1	1745.9	1743.7	1741.5	1741.2	1740.9
10°	1727.5	1725.9	1724.2	1722.6	1720.9	1719.3	1717.6	1716.0	1714.3	1713.5	1712.7
12.5°	1693.8	1693.0	1692.1	1691.3	1690.5	1689.7	1688.8	1688.0	1687.2	1686.9	1686.6
15°	1662.8	1663.0	1663.3	1663.6	1663.8	1664.1	1664.4	1664.6	1664.9	1665.7	1666.5
17.5°	1633.3	1636.3	1639.4	1642.4	1645.4	1648.4	1651.5	1654.5	1657.5	1659.7	1661.9
20°	1610.1	1616.9	1623.8	1630.6	1637.5	1644.3	1651.2	1658.0	1664.9	1668.7	1672.6
22.5°	1594.4	1605.4	1616.3	1627.3	1638.3	1649.3	1660.2	1671.2	1682.2	1686.6	1691.0
25°	1587.5	1601.5	1615.5	1629.5	1643.5	1657.5	1671.5	1685.5	1699.5	1704.4	1709.4
27.5°	1589.4	1605.3	1621.3	1637.2	1653.1	1669.0	1685.0	1700.9	1716.8	1722.6	1728.3
30°	1589.2	1607.3	1625.4	1643.5	1661.7	1679.8	1697.9	1716.0	1734.1	1741.2	1748.4
32.5°	1589.5	1610.3	1631.2	1652.0	1672.9	1693.7	1714.6	1735.4	1756.3	1765.1	1773.9
35°	1590.3	1614.4	1638.6	1662.7	1686.9	1711.0	1735.2	1759.3	1783.5	1794.2	1804.9
37.5°	1594.4	1622.6	1650.9	1679.2	1707.4	1735.7	1764.0	1792.2	1820.5	1833.1	1845.8
40°	1603.8	1636.4	1669.1	1701.7	1734.4	1767.0	1799.7	1832.3	1865.0	1880.4	1895.7
42.5°	1616.6	1654.8	1692.9	1731.1	1769.2	1807.4	1845.5	1883.7	1921.8	1940.2	1958.6
45°	1637.5	1681.7	1725.9	1770.1	1814.2	1858.4	1902.6	1946.8	1991.0	2012.4	2033.8
47.5°	1664.4	1715.7	1767.1	1818.4	1869.7	1921.0	1972.4	2023.7	2075.0	2099.7	2124.4
50°	1699.8	1759.3	1818.9	1878.5	1938.0	1997.6	2057.2	2116.7	2176.3	2204.6	2232.8
52.5°	1742.9	1810.9	1879.0	1947.1	2015.1	2083.2	2151.3	2219.3	2287.4	2319.0	2350.5
55°	1794.2	1871.6	1949.0	2026.4	2103.8	2181.2	2258.6	2336.0	2413.4	2447.7	2482.0
57.5°	1854.6	1940.5	2026.4	2112.3	2198.3	2284.2	2370.1	2456.0	2541.9	2578.9	2616.0
60°	1919.4	2013.2	2107.1	2201.0	2294.8	2388.7	2482.6	2576.4	2670.3	2708.5	2746.6
62.5°	1983.0	2083.8	2184.5	2285.2	2386.0	2486.7	2587.4	2688.2	2788.9	2826.8	2864.7
65°	2039.9	2145.5	2251.2	2356.9	2462.5	2568.2	2673.9	2779.5	2885.2	2922.5	2959.9
67.5°	2079.3	2187.5	2295.6	2403.8	2511.9	2620.1	2728.2	2836.4	2944.5	2980.2	3015.9
70°	2094.0	2201.8	2309.7	2417.5	2525.4	2633.2	2741.1	2848.9	2956.8	2990.3	3023.8
72.5°	2074.2	2179.6	2285.0	2390.4	2495.7	2601.1	2706.5	2811.9	2917.3	2948.0	2978.8
75°	2017.1	2117.3	2217.4	2317.6	2417.8	2518.0	2618.1	2718.3	2818.5	2846.5	2874.5
77.5°	1923.4	2016.5	2109.5	2202.6	2295.6	2388.7	2481.7	2574.8	2667.8	2693.6	2719.4
80°	1798.8	1883.4	1967.9	2052.5	2137.0	2221.6	2306.1	2390.7	2475.2	2498.5	2521.8
82.5°	1658.9	1734.4	1809.8	1885.3	1960.8	2036.3	2111.7	2187.2	2262.7	2283.6	2304.4
85°	1511.8	1578.5	1645.2	1711.9	1778.5	1845.2	1911.9	1978.6	2045.3	2063.7	2082.1
87.5°	1360.3	1418.7	1477.2	1535.7	1594.1	1652.6	1711.1	1769.5	1828.0	1844.7	1861.5
90°	1222.5	1274.1	1325.7	1377.3	1428.9	1480.5	1532.1	1583.7	1635.3	1650.7	1666.0
92.5°	1116.0	1162.4	1208.8	1255.2	1301.5	1347.9	1394.3	1440.7	1487.1	1501.1	1515.1
95°	1030.4	1072.6	1114.9	1157.2	1199.4	1241.7	1284.0	1326.2	1368.5	1381.4	1394.3
97.5°	956.3	996.1	1035.9	1075.7	1115.4	1155.2	1195.0	1234.8	1274.6	1287.0	1299.3
100°	892.9	931.0	969.2	1007.3	1045.5	1083.6	1121.8	1159.9	1198.1	1210.2	1222.2
102.5°	839.9	876.9	914.0	951.0	988.1	1025.1	1062.2	1099.2	1136.3	1148.1	1159.9
105°	792.4	828.9	865.4	901.9	938.4	974.9	1011.4	1047.9	1084.4	1096.2	1108.0
107.5°	750.4	786.9	823.4	859.9	896.4	932.9	969.4	1005.9	1042.4	1054.2	1066.0
110°	710.4	746.3	782.3	818.2	854.2	890.1	926.1	962.0	998.0	1010.3	1022.7



TEST NUMBER: P201398

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	671.0	707.3	743.5	779.7	816.0	852.2	888.4	924.7	960.9	973.5	986.1
115°	624.7	661.5	698.2	735.0	771.8	808.6	845.3	882.1	918.9	932.1	945.3
117.5°	584.6	620.9	657.1	693.3	729.6	765.8	802.0	838.3	874.5	887.9	901.4
120°	541.8	577.2	612.6	648.0	683.5	718.9	754.3	789.7	825.1	838.8	852.5
122.5°	498.2	531.9	565.7	599.4	633.2	666.9	700.7	734.4	768.2	782.2	796.2
125°	454.2	486.1	517.9	549.8	581.6	613.5	645.3	677.2	709.0	722.7	736.4
127.5°	405.7	435.9	466.1	496.3	526.4	556.6	586.8	617.0	647.2	660.1	673.0
130°	351.9	380.1	408.4	436.7	464.9	493.2	521.5	549.7	578.0	590.6	603.3
132.5°	299.1	326.6	354.0	381.5	408.9	436.4	463.8	491.3	518.7	530.0	541.2
135°	257.2	282.2	307.1	332.1	357.1	382.1	407.0	432.0	457.0	466.9	476.8
137.5°	216.5	237.9	259.3	280.7	302.2	323.6	345.0	366.4	387.8	398.0	408.1
140°	180.0	197.0	214.1	231.1	248.1	265.1	282.2	299.2	316.2	326.6	337.1
142.5°	147.9	162.5	177.0	191.6	206.1	220.7	235.2	249.8	264.3	272.8	281.3
145°	118.6	130.9	143.3	155.6	168.0	180.3	192.7	205.0	217.4	225.6	233.9
147.5°	94.2	104.3	114.5	124.6	134.8	144.9	155.1	165.2	175.4	183.1	190.8
150°	72.4	80.7	88.9	97.1	105.4	113.6	121.8	130.1	138.3	145.7	153.1
152.5°	53.2	59.5	65.8	72.1	78.5	84.8	91.1	97.4	103.7	110.6	117.4
155°	34.8	40.0	45.3	50.5	55.7	60.9	66.2	71.4	76.6	82.9	89.2
157.5°	18.9	23.0	27.2	31.3	35.4	39.5	43.7	47.8	51.9	57.4	62.9
160°	7.9	10.9	14.0	17.0	20.0	23.0	26.1	29.1	32.1	36.8	41.4
162.5°	1.4	2.8	4.1	5.5	6.9	8.3	9.6	11.0	12.4	16.0	19.5
165°	0.3	0.6	0.8	1.1	1.4	1.7	1.9	2.2	2.5	4.7	6.9
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: P201398

CATALOG NUMBER: 8LBLELD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7
2.5°	1802.4	1800.5	1798.6	1796.7	1794.7	1792.8	1790.9	1792.5	1794.2	1795.8	1797.5
5°	1771.1	1770.3	1769.5	1768.7	1767.8	1767.0	1766.2	1767.0	1767.8	1768.7	1769.5
7.5°	1740.7	1740.4	1740.1	1739.8	1739.6	1739.3	1739.0	1739.3	1739.6	1739.8	1740.1
10°	1711.8	1711.0	1710.2	1709.4	1708.5	1707.7	1706.9	1707.2	1707.5	1707.7	1708.0
12.5°	1686.4	1686.1	1685.8	1685.5	1685.3	1685.0	1684.7	1684.4	1684.1	1683.9	1683.6
15°	1667.4	1668.2	1669.0	1669.8	1670.7	1671.5	1672.3	1671.5	1670.7	1669.8	1669.0
17.5°	1664.1	1666.3	1668.5	1670.7	1672.9	1675.1	1677.3	1675.1	1672.9	1670.7	1668.5
20°	1676.4	1680.3	1684.1	1688.0	1691.8	1695.7	1699.5	1695.1	1690.7	1686.3	1681.9
22.5°	1695.4	1699.8	1704.1	1708.5	1712.9	1717.3	1721.7	1716.2	1710.7	1705.2	1699.7
25°	1714.3	1719.3	1724.2	1729.2	1734.1	1739.1	1744.0	1738.2	1732.5	1726.7	1720.9
27.5°	1734.1	1739.9	1745.6	1751.4	1757.2	1762.9	1768.7	1762.1	1755.5	1748.9	1742.3
30°	1755.5	1762.6	1769.8	1776.9	1784.0	1791.2	1798.3	1790.6	1782.9	1775.3	1767.6
32.5°	1782.7	1791.5	1800.2	1809.0	1817.8	1826.6	1835.4	1826.3	1817.3	1808.2	1799.2
35°	1815.6	1826.3	1837.0	1847.7	1858.4	1869.1	1879.8	1869.1	1858.4	1847.7	1837.0
37.5°	1858.4	1871.0	1883.7	1896.3	1908.9	1921.6	1934.2	1921.6	1908.9	1896.3	1883.7
40°	1911.1	1926.5	1941.8	1957.2	1972.6	1987.9	2003.3	1988.5	1973.7	1958.9	1944.1
42.5°	1977.0	1995.4	2013.7	2032.1	2050.5	2068.9	2087.3	2069.7	2052.2	2034.6	2017.0
45°	2055.2	2076.6	2098.1	2119.5	2140.9	2162.3	2183.7	2164.2	2144.7	2125.2	2105.7
47.5°	2149.1	2173.8	2198.5	2223.2	2247.9	2272.6	2297.3	2274.8	2252.3	2229.8	2207.3
50°	2261.1	2289.4	2317.6	2345.9	2374.2	2402.4	2430.7	2404.6	2378.5	2352.5	2326.4
52.5°	2382.1	2413.7	2445.2	2476.8	2508.4	2539.9	2571.5	2543.0	2514.4	2485.9	2457.3
55°	2516.3	2550.6	2585.0	2619.3	2653.6	2687.9	2722.2	2691.5	2660.7	2630.0	2599.2
57.5°	2653.0	2690.1	2727.1	2764.2	2801.2	2838.3	2875.3	2842.4	2809.4	2776.5	2743.6
60°	2784.8	2822.9	2861.1	2899.2	2937.4	2975.5	3013.7	2979.9	2946.2	2912.4	2878.6
62.5°	2902.5	2940.4	2978.3	3016.2	3054.0	3091.9	3129.8	3096.6	3063.4	3030.2	2997.0
65°	2997.2	3034.5	3071.9	3109.2	3146.5	3183.9	3221.2	3188.8	3156.4	3124.0	3091.6
67.5°	3051.5	3087.2	3122.9	3158.6	3194.2	3229.9	3265.6	3234.6	3203.6	3172.6	3141.6
70°	3057.3	3090.8	3124.2	3157.7	3191.2	3224.7	3258.2	3229.1	3200.0	3170.9	3141.8
72.5°	3009.5	3040.3	3071.0	3101.8	3132.5	3163.3	3194.0	3166.6	3139.1	3111.7	3084.2
75°	2902.5	2930.5	2958.5	2986.5	3014.5	3042.5	3070.5	3045.0	3019.4	2993.9	2968.4
77.5°	2745.2	2771.0	2796.8	2822.6	2848.4	2874.2	2900.0	2876.1	2852.2	2828.4	2804.5
80°	2545.2	2568.5	2591.8	2615.1	2638.5	2661.8	2685.1	2662.6	2640.1	2617.6	2595.1
82.5°	2325.3	2346.2	2367.0	2387.9	2408.8	2429.6	2450.5	2429.1	2407.7	2386.3	2364.9
85°	2100.5	2118.9	2137.2	2155.6	2174.0	2192.4	2210.8	2191.0	2171.3	2151.5	2131.8
87.5°	1878.2	1894.9	1911.7	1928.4	1945.1	1961.9	1978.6	1962.7	1946.8	1930.9	1915.0
90°	1681.4	1696.8	1712.1	1727.5	1742.9	1758.2	1773.6	1758.8	1744.0	1729.1	1714.3
92.5°	1529.1	1543.1	1557.1	1571.1	1585.1	1599.1	1613.1	1599.1	1585.1	1571.1	1557.1
95°	1407.2	1420.1	1433.0	1445.9	1458.8	1471.7	1484.6	1472.0	1459.4	1446.7	1434.1
97.5°	1311.7	1324.0	1336.4	1348.7	1361.1	1373.4	1385.8	1373.7	1361.6	1349.6	1337.5
100°	1234.3	1246.4	1258.4	1270.5	1282.6	1294.6	1306.7	1295.2	1283.7	1272.1	1260.6
102.5°	1171.7	1183.5	1195.3	1207.1	1218.9	1230.7	1242.5	1231.0	1219.5	1207.9	1196.4
105°	1119.8	1131.6	1143.4	1155.2	1167.0	1178.8	1190.6	1179.6	1168.6	1157.7	1146.7
107.5°	1077.8	1089.6	1101.5	1113.3	1125.1	1136.9	1148.7	1137.4	1126.2	1114.9	1103.7
110°	1035.0	1047.4	1059.7	1072.1	1084.4	1096.8	1109.1	1097.6	1086.1	1074.5	1063.0



TEST NUMBER: P201398

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	998.8	1011.4	1024.0	1036.6	1049.3	1061.9	1074.5	1062.7	1050.9	1039.1	1027.3
115°	958.4	971.6	984.8	998.0	1011.1	1024.3	1037.5	1025.1	1012.8	1000.4	988.1
117.5°	914.8	928.3	941.7	955.2	968.6	982.1	995.5	982.9	970.3	957.6	945.0
120°	866.3	880.0	893.7	907.4	921.2	934.9	948.6	936.0	923.3	910.7	898.1
122.5°	810.2	824.2	838.2	852.2	866.2	880.2	894.2	881.6	869.0	856.3	843.7
125°	750.2	763.9	777.6	791.3	805.1	818.8	832.5	820.1	807.8	795.4	783.1
127.5°	685.9	698.8	711.7	724.6	737.5	750.4	763.3	751.8	740.2	728.7	717.2
130°	615.9	628.5	641.2	653.8	666.4	679.1	691.7	680.4	669.2	657.9	646.7
132.5°	552.5	563.7	575.0	586.2	597.5	608.7	620.0	609.8	599.7	589.5	579.4
135°	486.6	496.5	506.4	516.3	526.1	536.0	545.9	537.7	529.4	521.2	513.0
137.5°	418.3	428.4	438.6	448.7	458.9	469.0	479.2	471.2	463.3	455.3	447.4
140°	347.5	357.9	368.4	378.8	389.2	399.7	410.1	402.7	395.3	387.9	380.5
142.5°	289.8	298.3	306.9	315.4	323.9	332.4	340.9	336.0	331.0	326.1	321.1
145°	242.1	250.3	258.6	266.8	275.0	283.3	291.5	287.4	283.3	279.1	275.0
147.5°	198.5	206.2	213.8	221.5	229.2	236.9	244.6	241.3	238.0	234.7	231.4
150°	160.5	167.9	175.4	182.8	190.2	197.6	205.0	202.3	199.5	196.8	194.0
152.5°	124.3	131.2	138.0	144.9	151.8	158.6	165.5	163.3	161.1	158.9	156.7
155°	95.5	101.8	108.2	114.5	120.8	127.1	133.4	131.5	129.6	127.6	125.7
157.5°	68.4	73.9	79.3	84.8	90.3	95.8	101.3	99.9	98.5	97.2	95.8
160°	46.1	50.8	55.4	60.1	64.8	69.4	74.1	72.7	71.4	70.0	68.6
162.5°	23.1	26.7	30.2	33.8	37.4	40.9	44.5	43.7	42.9	42.0	41.2
165°	9.1	11.3	13.4	15.6	17.8	20.0	22.2	22.2	22.2	22.2	22.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	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: P201398

CATALOG NUMBER: 8LBLELD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7
2.5°	1799.1	1800.8	1802.4	1804.1	1805.7	1808.4	1811.2	1813.9	1816.7	1819.4	1822.2
5°	1770.3	1771.1	1772.0	1772.8	1773.6	1776.6	1779.6	1782.7	1785.7	1788.7	1791.7
7.5°	1740.4	1740.7	1740.9	1741.2	1741.5	1744.5	1747.5	1750.6	1753.6	1756.6	1759.6
10°	1708.3	1708.6	1708.8	1709.1	1709.4	1713.0	1716.5	1720.1	1723.7	1727.2	1730.8
12.5°	1683.3	1683.0	1682.8	1682.5	1682.2	1685.5	1688.8	1692.1	1695.4	1698.7	1702.0
15°	1668.2	1667.4	1666.5	1665.7	1664.9	1666.3	1667.7	1669.0	1670.4	1671.8	1673.2
17.5°	1666.3	1664.1	1661.9	1659.7	1657.5	1656.4	1655.3	1654.2	1653.1	1652.0	1650.9
20°	1677.6	1673.2	1668.8	1664.4	1660.0	1655.1	1650.1	1645.2	1640.2	1635.3	1630.3
22.5°	1694.3	1688.8	1683.3	1677.8	1672.3	1663.5	1654.7	1646.0	1637.2	1628.4	1619.6
25°	1715.2	1709.4	1703.6	1697.9	1692.1	1680.0	1667.9	1655.9	1643.8	1631.7	1619.6
27.5°	1735.8	1729.2	1722.6	1716.0	1709.4	1695.4	1681.4	1667.4	1653.4	1639.4	1625.4
30°	1759.9	1752.2	1744.6	1736.9	1729.2	1712.5	1695.7	1679.0	1662.2	1645.5	1628.7
32.5°	1790.1	1781.1	1772.0	1763.0	1753.9	1734.1	1714.4	1694.6	1674.8	1655.1	1635.3
35°	1826.3	1815.6	1804.9	1794.2	1783.5	1760.4	1737.4	1714.3	1691.3	1668.2	1645.2
37.5°	1871.0	1858.4	1845.8	1833.1	1820.5	1793.6	1766.7	1739.8	1712.9	1686.1	1659.2
40°	1929.2	1914.4	1899.6	1884.8	1870.0	1838.4	1806.9	1775.3	1743.7	1712.2	1680.6
42.5°	1999.5	1981.9	1964.3	1946.8	1929.2	1892.4	1855.6	1818.9	1782.1	1745.3	1708.5
45°	2086.3	2066.8	2047.3	2027.8	2008.3	1964.4	1920.5	1876.6	1832.7	1788.7	1744.8
47.5°	2184.7	2162.2	2139.7	2117.2	2094.7	2043.9	1993.2	1942.4	1891.6	1840.9	1790.1
50°	2300.3	2274.2	2248.2	2222.1	2196.0	2137.5	2079.1	2020.6	1962.2	1903.7	1845.3
52.5°	2428.8	2400.2	2371.7	2343.1	2314.6	2247.4	2180.1	2112.9	2045.6	1978.4	1911.1
55°	2568.5	2537.7	2507.0	2476.2	2445.5	2368.9	2292.3	2215.8	2139.2	2062.6	1986.0
57.5°	2710.6	2677.7	2644.8	2611.8	2578.9	2494.1	2409.3	2324.5	2239.7	2154.8	2070.0
60°	2844.9	2811.1	2777.3	2743.6	2709.8	2617.3	2524.8	2432.3	2339.8	2247.4	2154.9
62.5°	2963.7	2930.5	2897.3	2864.1	2830.9	2731.8	2632.7	2533.6	2434.5	2335.5	2236.4
65°	3059.3	3026.9	2994.5	2962.1	2929.7	2825.7	2721.7	2617.6	2513.6	2409.6	2305.6
67.5°	3110.5	3079.5	3048.5	3017.5	2986.5	2880.6	2774.6	2668.7	2562.7	2456.8	2350.8
70°	3112.8	3083.7	3054.6	3025.5	2996.4	2890.7	2785.0	2679.4	2573.7	2468.0	2362.3
72.5°	3056.8	3029.3	3001.9	2974.4	2947.0	2844.9	2742.8	2640.7	2538.6	2436.4	2334.3
75°	2942.8	2917.3	2891.8	2866.2	2840.7	2744.4	2648.0	2551.7	2455.4	2359.0	2262.7
77.5°	2780.6	2756.7	2732.9	2709.0	2685.1	2596.2	2507.3	2418.3	2329.4	2240.5	2151.6
80°	2572.6	2550.1	2527.6	2505.1	2482.6	2402.2	2321.8	2241.3	2160.9	2080.5	2000.1
82.5°	2343.4	2322.0	2300.6	2279.2	2257.8	2187.0	2116.2	2045.4	1974.6	1903.7	1832.9
85°	2112.0	2092.3	2072.5	2052.8	2033.0	1970.7	1908.4	1846.1	1783.8	1721.4	1659.1
87.5°	1899.0	1883.1	1867.2	1851.3	1835.4	1778.6	1721.8	1664.9	1608.1	1551.3	1494.5
90°	1699.5	1684.7	1669.8	1655.0	1640.2	1590.2	1540.3	1490.3	1440.4	1390.4	1340.5
92.5°	1543.1	1529.1	1515.1	1501.1	1487.1	1442.9	1398.7	1354.5	1310.3	1266.2	1222.0
95°	1421.5	1408.9	1396.2	1383.6	1371.0	1330.4	1289.8	1249.1	1208.5	1167.9	1127.3
97.5°	1325.4	1313.3	1301.3	1289.2	1277.1	1238.9	1200.8	1162.6	1124.5	1086.3	1048.2
100°	1249.1	1237.6	1226.0	1214.5	1203.0	1166.2	1129.4	1092.7	1055.9	1019.1	982.3
102.5°	1184.9	1173.4	1161.8	1150.3	1138.8	1103.1	1067.4	1031.7	996.0	960.4	924.7
105°	1135.7	1124.7	1113.8	1102.8	1091.8	1056.4	1021.0	985.6	950.2	914.8	879.4
107.5°	1092.4	1081.2	1069.9	1058.7	1047.4	1012.5	977.7	942.8	908.0	873.1	838.3
110°	1051.5	1040.0	1028.4	1016.9	1005.4	970.8	936.2	901.6	867.0	832.5	797.9



TEST NUMBER: P201398

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	1015.5	1003.7	991.9	980.1	968.3	933.7	899.1	864.6	830.0	795.4	760.8
115°	975.7	963.4	951.0	938.7	926.3	891.7	857.1	822.6	788.0	753.4	718.8
117.5°	932.4	919.8	907.1	894.5	881.9	847.0	812.2	777.3	742.4	707.6	672.7
120°	885.4	872.8	860.2	847.5	834.9	800.6	766.3	732.0	697.7	663.4	629.1
122.5°	831.1	818.5	805.8	793.2	780.6	747.7	714.7	681.8	648.9	615.9	583.0
125°	770.7	758.4	746.0	733.7	721.3	690.0	658.7	627.4	596.1	564.9	533.6
127.5°	705.6	694.1	682.6	671.0	659.5	630.4	601.3	572.2	543.1	514.1	485.0
130°	635.4	624.2	612.9	601.7	590.4	564.3	538.2	512.2	486.1	460.0	433.9
132.5°	569.2	559.1	548.9	538.8	528.6	503.6	478.6	453.7	428.7	403.7	378.7
135°	504.7	496.5	488.3	480.0	471.8	449.3	426.8	404.3	381.8	359.3	336.8
137.5°	439.4	431.5	423.5	415.6	407.6	388.7	369.7	350.8	331.8	312.9	293.9
140°	373.0	365.6	358.2	350.8	343.4	328.3	313.2	298.1	283.0	267.9	252.8
142.5°	316.2	311.2	306.3	301.3	296.4	283.2	270.1	256.9	243.7	230.6	217.4
145°	270.9	266.8	262.6	258.5	254.4	243.2	231.9	220.7	209.4	198.2	186.9
147.5°	228.1	224.8	221.5	218.2	214.9	205.3	195.7	186.1	176.5	166.9	157.3
150°	191.3	188.5	185.8	183.0	180.3	171.8	163.3	154.8	146.3	137.7	129.2
152.5°	154.5	152.3	150.1	147.9	145.7	138.8	132.0	125.1	118.3	111.4	104.6
155°	123.8	121.9	119.9	118.0	116.1	110.3	104.6	98.8	93.0	87.3	81.5
157.5°	94.4	93.0	91.7	90.3	88.9	83.7	78.5	73.3	68.1	62.8	57.6
160°	67.3	65.9	64.5	63.2	61.8	58.0	54.1	50.3	46.4	42.6	38.7
162.5°	40.4	39.6	38.7	37.9	37.1	35.2	33.3	31.3	29.4	27.5	25.6
165°	22.2	22.2	22.2	22.2	22.2	21.1	20.0	18.9	17.8	16.8	15.7
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: P201398

CATALOG NUMBER: 8LBLEDD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7
2.5°	1824.9	1827.7	1830.4	1830.7	1831.0	1831.2	1831.5	1831.8	1832.1	1832.3	1832.6
5°	1794.8	1797.8	1800.8	1801.9	1803.0	1804.1	1805.2	1806.3	1807.4	1808.5	1809.6
7.5°	1762.7	1765.7	1768.7	1770.3	1772.0	1773.6	1775.3	1776.9	1778.6	1780.2	1781.9
10°	1734.4	1737.9	1741.5	1742.3	1743.1	1744.0	1744.8	1745.6	1746.4	1747.3	1748.1
12.5°	1705.3	1708.6	1711.9	1712.2	1712.4	1712.7	1713.0	1713.2	1713.5	1713.8	1714.0
15°	1674.5	1675.9	1677.3	1677.6	1677.8	1678.1	1678.4	1678.6	1678.9	1679.2	1679.4
17.5°	1649.8	1648.7	1647.6	1646.5	1645.4	1644.3	1643.2	1642.2	1641.1	1640.0	1638.9
20°	1625.4	1620.4	1615.5	1613.0	1610.6	1608.1	1605.6	1603.2	1600.7	1598.2	1595.8
22.5°	1610.9	1602.1	1593.3	1587.5	1581.8	1576.0	1570.2	1564.5	1558.7	1552.9	1547.2
25°	1607.6	1595.5	1583.4	1573.2	1563.1	1552.9	1542.8	1532.6	1522.5	1512.3	1502.2
27.5°	1611.4	1597.4	1583.4	1567.2	1551.0	1534.8	1518.6	1502.5	1486.3	1470.1	1453.9
30°	1612.0	1595.2	1578.5	1557.1	1535.7	1514.3	1492.9	1471.4	1450.0	1428.6	1407.2
32.5°	1615.5	1595.8	1576.0	1549.4	1522.8	1496.1	1469.5	1442.9	1416.3	1389.6	1363.0
35°	1622.1	1599.1	1576.0	1543.6	1511.2	1478.8	1446.4	1414.1	1381.7	1349.3	1316.9
37.5°	1632.3	1605.4	1578.5	1540.9	1503.3	1465.7	1428.1	1390.4	1352.8	1315.2	1277.6
40°	1649.0	1617.5	1585.9	1543.6	1501.4	1459.1	1416.8	1374.6	1332.3	1290.0	1247.8
42.5°	1671.8	1635.0	1598.2	1550.7	1503.2	1455.8	1408.3	1360.8	1313.3	1265.9	1218.4
45°	1700.9	1657.0	1613.1	1560.4	1507.7	1455.0	1402.3	1349.6	1296.9	1244.2	1191.5
47.5°	1739.3	1688.6	1637.8	1579.3	1520.9	1462.4	1403.9	1345.5	1287.0	1228.5	1170.1
50°	1786.8	1728.4	1669.9	1604.6	1539.3	1473.9	1408.6	1343.3	1278.0	1212.6	1147.3
52.5°	1843.9	1776.6	1709.4	1636.7	1563.9	1491.2	1418.5	1345.7	1273.0	1200.3	1127.5
55°	1909.5	1832.9	1756.3	1675.9	1595.5	1515.1	1434.7	1354.2	1273.8	1193.4	1113.0
57.5°	1985.2	1900.4	1815.6	1725.8	1636.1	1546.3	1456.6	1366.8	1277.1	1187.3	1097.6
60°	2062.4	1969.9	1877.4	1778.3	1679.2	1580.1	1481.0	1382.0	1282.9	1183.8	1084.7
62.5°	2137.3	2038.2	1939.1	1831.0	1722.8	1614.7	1506.6	1398.4	1290.3	1182.2	1074.0
65°	2201.5	2097.5	1993.5	1876.8	1760.2	1643.5	1526.9	1410.2	1293.6	1176.9	1060.3
67.5°	2244.9	2138.9	2033.0	1908.9	1784.9	1660.8	1536.8	1412.7	1288.7	1164.6	1040.6
70°	2256.7	2151.0	2045.3	1916.3	1787.3	1658.3	1529.3	1400.3	1271.3	1142.3	1013.3
72.5°	2232.2	2130.1	2028.0	1896.8	1765.6	1634.4	1503.2	1372.1	1240.9	1109.7	978.5
75°	2166.4	2070.0	1973.7	1843.9	1714.1	1584.2	1454.4	1324.6	1194.8	1064.9	935.1
77.5°	2062.6	1973.7	1884.8	1759.6	1634.5	1509.3	1384.2	1259.0	1133.9	1008.7	883.6
80°	1919.6	1839.2	1758.8	1641.9	1525.0	1408.0	1291.1	1174.2	1057.3	940.3	823.4
82.5°	1762.1	1691.3	1620.5	1512.9	1405.3	1297.7	1190.1	1082.5	974.9	867.3	759.7
85°	1596.8	1534.5	1472.2	1374.5	1276.8	1179.1	1081.4	983.7	886.0	788.3	690.6
87.5°	1437.6	1380.8	1324.0	1236.7	1149.4	1062.2	974.9	887.6	800.3	713.1	625.8
90°	1290.5	1240.6	1190.6	1112.4	1034.2	955.9	877.7	799.5	721.3	643.0	564.8
92.5°	1177.8	1133.6	1089.4	1018.9	948.3	877.8	807.2	736.7	666.1	595.6	525.0
95°	1086.6	1046.0	1005.4	940.3	875.3	810.2	745.2	680.1	615.1	550.0	485.0
97.5°	1010.0	971.9	933.7	873.3	812.9	752.6	692.2	631.8	571.4	511.1	450.7
100°	945.6	908.8	872.0	815.2	758.4	701.6	644.8	587.9	531.1	474.3	417.5
102.5°	889.0	853.3	817.6	763.5	709.5	655.4	601.3	547.3	493.2	439.1	385.1
105°	844.0	808.6	773.2	721.0	668.9	616.7	564.6	512.4	460.3	408.1	356.0
107.5°	803.4	768.6	733.7	683.2	632.7	582.2	531.7	481.1	430.6	380.1	329.6
110°	763.3	728.7	694.1	645.5	596.9	548.4	499.8	451.2	402.6	354.1	305.5



TEST NUMBER: P201398

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	726.3	691.7	657.1	609.9	562.7	515.5	468.3	421.0	373.8	326.6	279.4
115°	684.3	649.7	615.1	570.1	525.1	480.1	435.1	390.0	345.0	300.0	255.0
117.5°	637.8	603.0	568.1	526.1	484.1	442.1	400.1	358.2	316.2	274.2	232.2
120°	594.8	560.5	526.2	486.7	447.1	407.6	368.1	328.5	289.0	249.5	209.9
122.5°	550.1	517.1	484.2	447.7	411.2	374.7	338.2	301.6	265.1	228.6	192.1
125°	502.3	471.0	439.7	406.2	372.7	339.2	305.7	272.3	238.8	205.3	171.8
127.5°	455.9	426.8	397.7	367.2	336.8	306.3	275.8	245.4	214.9	184.4	154.0
130°	407.9	381.8	355.7	328.5	301.4	274.2	247.0	219.9	192.7	165.5	138.4
132.5°	353.8	328.8	303.8	280.7	257.7	234.6	211.6	188.5	165.5	142.4	119.4
135°	314.3	291.8	269.3	248.7	228.1	207.5	186.9	166.4	145.8	125.2	104.6
137.5°	275.0	256.0	237.1	218.4	199.8	181.1	162.5	143.8	125.2	106.5	87.9
140°	237.7	222.6	207.5	190.8	174.0	157.3	140.5	123.8	107.0	90.3	73.5
142.5°	204.2	191.1	177.9	163.1	148.3	133.4	118.6	103.8	89.0	74.1	59.3
145°	175.7	164.4	153.2	140.0	126.8	113.7	100.5	87.3	74.1	61.0	47.8
147.5°	147.7	138.1	128.5	117.2	106.0	94.7	83.5	72.2	61.0	49.7	38.5
150°	120.7	112.2	103.7	94.6	85.6	76.5	67.5	58.4	49.4	40.3	31.3
152.5°	97.7	90.9	84.0	76.9	69.7	62.6	55.5	48.3	41.2	34.1	26.9
155°	75.7	70.0	64.2	58.7	53.2	47.7	42.2	36.8	31.3	25.8	20.3
157.5°	52.4	47.2	42.0	38.4	34.9	31.3	27.7	24.2	20.6	17.0	13.5
160°	34.9	31.0	27.2	25.0	22.8	20.6	18.4	16.2	14.0	11.8	9.6
162.5°	23.6	21.7	19.8	18.1	16.5	14.8	13.2	11.5	9.9	8.2	6.6
165°	14.6	13.5	12.4	11.6	10.7	9.9	9.1	8.2	7.4	6.6	5.7
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: P201398

CATALOG NUMBER: 8LBLELD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7
2.5°	1832.9	1838.1	1843.3	1848.5	1853.7	1859.0	1864.2	1869.4	1874.6	1879.8	1879.3
5°	1810.7	1817.3	1823.9	1830.5	1837.1	1843.6	1850.2	1856.8	1863.4	1870.0	1871.4
7.5°	1783.5	1790.9	1798.3	1805.7	1813.1	1820.6	1828.0	1835.4	1842.8	1850.2	1853.8
10°	1748.9	1757.7	1766.5	1775.3	1784.1	1792.8	1801.6	1810.4	1819.2	1828.0	1833.2
12.5°	1714.3	1723.6	1733.0	1742.3	1751.6	1761.0	1770.3	1779.6	1789.0	1798.3	1805.7
15°	1679.7	1689.3	1698.9	1708.5	1718.1	1727.8	1737.4	1747.0	1756.6	1766.2	1775.8
17.5°	1637.8	1647.7	1657.6	1667.4	1677.3	1687.2	1697.1	1706.9	1716.8	1726.7	1738.5
20°	1593.3	1603.2	1613.1	1622.9	1632.8	1642.7	1652.6	1662.4	1672.3	1682.2	1695.9
22.5°	1541.4	1550.7	1560.1	1569.4	1578.7	1588.1	1597.4	1606.7	1616.1	1625.4	1642.4
25°	1492.0	1501.1	1510.1	1519.2	1528.2	1537.3	1546.3	1555.4	1564.4	1573.5	1592.4
27.5°	1437.7	1446.5	1455.3	1464.0	1472.8	1481.6	1490.4	1499.1	1507.9	1516.7	1538.1
30°	1385.8	1393.2	1400.6	1408.0	1415.4	1422.9	1430.3	1437.7	1445.1	1452.5	1476.7
32.5°	1336.4	1341.6	1346.8	1352.0	1357.2	1362.5	1367.7	1372.9	1378.1	1383.3	1410.7
35°	1284.5	1287.5	1290.5	1293.6	1296.6	1299.6	1302.6	1305.7	1308.7	1311.7	1342.7
37.5°	1240.0	1240.0	1240.0	1240.0	1240.0	1240.0	1240.0	1240.0	1240.0	1240.0	1275.1
40°	1205.5	1201.1	1196.7	1192.3	1187.9	1183.5	1179.1	1174.7	1170.3	1165.9	1205.4
42.5°	1170.9	1161.6	1152.2	1142.9	1133.6	1124.2	1114.9	1105.6	1096.2	1086.9	1131.6
45°	1138.8	1124.8	1110.8	1096.8	1082.8	1068.8	1054.8	1040.8	1026.8	1012.8	1062.5
47.5°	1111.6	1092.1	1072.6	1053.1	1033.6	1014.2	994.7	975.2	955.7	936.2	990.8
50°	1082.0	1057.6	1033.1	1008.7	984.3	959.8	935.4	911.0	886.5	862.1	921.9
52.5°	1054.8	1025.4	996.1	966.7	937.3	908.0	878.6	849.2	819.9	790.5	855.3
55°	1032.6	998.0	963.4	928.8	894.2	859.7	825.1	790.5	755.9	721.3	791.0
57.5°	1007.8	968.3	928.8	889.2	849.7	810.2	770.7	731.1	691.6	652.1	727.0
60°	985.6	940.3	895.0	849.7	804.4	759.2	713.9	668.6	623.3	578.0	659.0
62.5°	965.9	915.7	865.4	815.2	765.0	714.7	664.5	614.3	564.0	513.8	600.0
65°	943.6	889.0	834.4	779.7	725.1	670.5	615.9	561.2	506.6	452.0	542.9
67.5°	916.5	858.0	799.6	741.1	682.6	624.2	565.7	507.2	448.8	390.3	485.3
70°	884.3	823.1	761.9	700.7	639.5	578.3	517.1	455.9	394.7	333.5	431.5
72.5°	847.3	783.9	720.5	657.1	593.7	530.3	466.9	403.5	340.1	276.7	376.9
75°	805.3	740.8	676.3	611.8	547.3	482.8	418.3	353.8	289.3	224.8	326.1
77.5°	758.4	693.9	629.4	564.9	500.4	435.9	371.4	306.9	242.4	177.9	278.6
80°	706.5	642.5	578.6	514.6	450.7	386.7	322.8	258.8	194.9	130.9	230.0
82.5°	652.1	589.8	527.5	465.2	402.9	340.6	278.3	216.0	153.7	91.4	187.5
85°	592.9	533.1	473.2	413.4	353.5	293.7	233.8	174.0	114.1	54.3	146.8
87.5°	538.5	481.1	423.8	366.4	309.0	251.7	194.3	136.9	79.6	22.2	110.0
90°	486.6	432.5	378.5	324.4	270.3	216.3	162.2	108.1	54.1	0.0	82.3
92.5°	454.5	404.0	353.5	303.0	252.5	202.0	151.5	101.0	50.5	0.0	76.3
95°	419.9	373.2	326.6	279.9	233.3	186.6	140.0	93.3	46.7	0.0	70.3
97.5°	390.3	346.9	303.6	260.2	216.8	173.5	130.1	86.7	43.4	0.0	64.0
100°	360.7	320.6	280.5	240.5	200.4	160.3	120.2	80.2	40.1	0.0	58.5
102.5°	331.0	294.2	257.4	220.7	183.9	147.1	110.3	73.6	36.8	0.0	53.2
105°	303.8	270.0	236.3	202.5	168.8	135.0	101.3	67.5	33.8	0.0	48.6
107.5°	279.1	248.1	217.1	186.1	155.1	124.0	93.0	62.0	31.0	0.0	44.2
110°	256.9	228.4	199.8	171.3	142.7	114.2	85.6	57.1	28.5	0.0	39.8



TEST NUMBER: P201398

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	232.2	206.4	180.6	154.8	129.0	103.2	77.4	51.6	25.8	0.0	36.2
115°	210.0	186.9	163.9	140.8	117.8	94.7	71.7	48.6	25.6	2.5	35.2
117.5°	190.2	169.3	148.5	127.6	106.8	85.9	65.1	44.2	23.4	2.5	31.9
120°	170.4	151.7	133.1	114.4	95.8	77.1	58.5	39.8	21.2	2.5	29.1
122.5°	155.6	138.6	121.6	104.6	87.6	70.5	53.5	36.5	19.5	2.5	26.1
125°	138.3	123.2	108.1	93.0	77.9	62.9	47.8	32.7	17.6	2.5	23.1
127.5°	123.5	110.1	96.6	83.2	69.7	56.3	42.8	29.4	15.9	2.5	19.8
130°	111.2	99.1	87.0	75.0	62.9	50.8	38.7	26.7	14.6	2.5	16.5
132.5°	96.3	85.9	75.5	65.0	54.6	44.2	33.8	23.3	12.9	2.5	13.7
135°	84.0	74.9	65.9	56.8	47.8	38.7	29.7	20.6	11.6	2.5	11.0
137.5°	69.2	61.8	54.4	47.0	39.6	32.1	24.7	17.3	9.9	2.5	8.5
140°	56.8	50.8	44.7	38.7	32.7	26.6	20.6	14.6	8.5	2.5	6.6
142.5°	44.5	39.8	35.2	30.5	25.8	21.2	16.5	11.8	7.2	2.5	5.2
145°	34.6	31.0	27.5	23.9	20.3	16.8	13.2	9.6	6.1	2.5	4.1
147.5°	27.2	24.5	21.7	19.0	16.2	13.5	10.7	8.0	5.2	2.5	3.6
150°	22.2	20.0	17.8	15.6	13.4	11.3	9.1	6.9	4.7	2.5	3.3
152.5°	19.8	17.9	16.0	14.0	12.1	10.2	8.3	6.3	4.4	2.5	3.0
155°	14.8	13.4	12.1	10.7	9.3	8.0	6.6	5.2	3.9	2.5	2.8
157.5°	9.9	9.1	8.3	7.4	6.6	5.8	5.0	4.1	3.3	2.5	2.5
160°	7.4	6.9	6.3	5.8	5.2	4.7	4.1	3.6	3.0	2.5	2.5
162.5°	4.9	4.6	4.4	4.1	3.8	3.6	3.3	3.0	2.8	2.5	2.5
165°	4.9	4.6	4.4	4.1	3.8	3.6	3.3	3.0	2.8	2.5	2.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	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: P201398

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7
2.5°	1878.7	1878.2	1877.6	1877.1	1876.5	1876.0	1875.4	1874.9	1876.3	1877.6	1879.0
5°	1872.7	1874.1	1875.5	1876.8	1878.2	1879.6	1880.9	1882.3	1885.3	1888.3	1891.4
7.5°	1857.3	1860.9	1864.5	1868.0	1871.6	1875.2	1878.7	1882.3	1887.0	1891.6	1896.3
10°	1838.4	1843.6	1848.8	1854.1	1859.3	1864.5	1869.7	1874.9	1881.8	1888.6	1895.5
12.5°	1813.1	1820.5	1827.9	1835.4	1842.8	1850.2	1857.6	1865.0	1874.1	1883.1	1892.2
15°	1785.4	1795.0	1804.6	1814.3	1823.9	1833.5	1843.1	1852.7	1863.9	1875.2	1886.4
17.5°	1750.3	1762.1	1773.9	1785.7	1797.5	1809.3	1821.1	1832.9	1847.2	1861.5	1875.7
20°	1709.6	1723.4	1737.1	1750.8	1764.5	1778.3	1792.0	1805.7	1823.3	1840.8	1858.4
22.5°	1659.4	1676.5	1693.5	1710.5	1727.5	1744.6	1761.6	1778.6	1800.8	1823.0	1845.3
25°	1611.4	1630.3	1649.3	1668.2	1687.2	1706.1	1725.1	1744.0	1772.3	1800.5	1828.8
27.5°	1559.5	1580.9	1602.3	1623.8	1645.2	1666.6	1688.0	1709.4	1743.7	1778.0	1812.3
30°	1500.8	1525.0	1549.1	1573.3	1597.4	1621.6	1645.7	1669.9	1710.5	1751.1	1791.8
32.5°	1438.2	1465.6	1493.1	1520.5	1548.0	1575.4	1602.9	1630.3	1677.5	1724.7	1771.9
35°	1373.7	1404.7	1435.7	1466.8	1497.8	1528.8	1559.8	1590.8	1644.0	1697.3	1750.5
37.5°	1310.3	1345.4	1380.5	1415.7	1450.8	1485.9	1521.1	1556.2	1615.8	1675.3	1734.9
40°	1245.0	1284.5	1324.0	1363.6	1403.1	1442.6	1482.2	1521.7	1587.8	1654.0	1720.1
42.5°	1176.4	1221.1	1265.8	1310.6	1355.3	1400.0	1444.8	1489.5	1562.2	1635.0	1707.7
45°	1112.2	1161.8	1211.5	1261.2	1310.9	1360.5	1410.2	1459.9	1540.0	1620.2	1700.3
47.5°	1045.4	1100.1	1154.7	1209.3	1263.9	1318.6	1373.2	1427.8	1516.5	1605.1	1693.8
50°	981.8	1041.6	1101.4	1161.3	1221.1	1280.9	1340.8	1400.6	1498.0	1595.5	1692.9
52.5°	920.0	984.8	1049.6	1114.3	1179.1	1243.9	1308.6	1373.4	1480.7	1588.0	1695.4
55°	860.7	930.4	1000.1	1069.9	1139.6	1209.3	1279.0	1348.7	1467.0	1585.3	1703.6
57.5°	802.0	876.9	951.8	1026.8	1101.7	1176.6	1251.6	1326.5	1456.3	1586.1	1716.0
60°	739.9	820.9	901.9	982.8	1063.8	1144.8	1225.7	1306.7	1449.2	1591.6	1734.1
62.5°	686.2	772.4	858.6	944.7	1030.9	1117.1	1203.3	1289.5	1444.0	1598.5	1753.1
65°	633.7	724.6	815.4	906.3	997.1	1088.0	1178.8	1269.7	1435.8	1601.8	1767.9
67.5°	580.2	675.2	770.2	865.1	960.1	1055.1	1150.0	1245.0	1422.0	1599.1	1776.1
70°	529.5	627.4	725.4	823.4	921.4	1019.3	1117.3	1215.3	1399.5	1583.7	1767.8
72.5°	477.1	577.2	677.4	777.6	877.8	977.9	1078.1	1178.3	1365.8	1553.2	1740.7
75°	427.4	528.6	629.9	731.2	832.5	933.7	1035.0	1136.3	1322.1	1507.9	1693.7
77.5°	379.3	480.1	580.8	681.5	782.2	883.0	983.7	1084.4	1264.5	1444.5	1624.6
80°	329.1	428.2	527.3	626.3	725.4	824.5	923.6	1022.7	1193.1	1363.6	1534.0
82.5°	283.5	379.6	475.7	571.7	667.8	763.9	859.9	956.0	1114.6	1273.3	1431.9
85°	239.3	331.8	424.3	516.8	609.3	701.8	794.3	886.8	1032.3	1177.7	1323.2
87.5°	197.9	285.7	373.5	461.4	549.2	637.0	724.9	812.7	944.4	1076.2	1207.9
90°	164.7	247.0	329.4	411.7	494.1	576.4	658.8	741.1	860.5	979.9	1099.3
92.5°	152.6	228.9	305.2	381.5	457.8	534.1	610.4	686.7	795.1	903.5	1012.0
95°	140.5	210.8	281.1	351.3	421.6	491.9	562.1	632.4	732.3	832.2	932.1
97.5°	127.9	191.9	255.8	319.8	383.7	447.7	511.6	575.6	668.9	762.2	855.5
100°	116.9	175.4	233.9	292.3	350.8	409.3	467.7	526.2	614.0	701.8	789.7
102.5°	106.5	159.7	213.0	266.2	319.5	372.7	426.0	479.2	562.4	645.5	728.7
105°	97.2	145.7	194.3	242.9	291.5	340.0	388.6	437.2	516.3	595.3	674.4
107.5°	88.4	132.6	176.8	220.9	265.1	309.3	353.5	397.7	474.3	550.9	627.4
110°	79.6	119.4	159.2	199.0	238.8	278.6	318.4	358.2	431.5	504.8	578.0



TEST NUMBER: P201398

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	72.5	108.7	144.9	181.2	217.4	253.6	289.9	326.1	395.5	465.0	534.4
115°	67.8	100.5	133.1	165.8	198.4	231.1	263.7	296.4	362.5	428.7	494.8
117.5°	61.2	90.6	120.0	149.3	178.7	208.1	237.4	266.8	329.9	393.0	456.2
120°	55.7	82.4	109.0	135.6	162.2	188.9	215.5	242.1	300.8	359.6	418.3
122.5°	49.7	73.3	96.9	120.5	144.1	167.7	191.3	214.9	269.0	323.0	377.1
125°	43.7	64.2	84.8	105.4	126.0	146.5	167.1	187.7	237.9	288.2	338.4
127.5°	37.1	54.4	71.7	88.9	106.2	123.5	140.8	158.1	204.5	250.9	297.3
130°	30.5	44.5	58.5	72.5	86.5	100.5	114.5	128.5	170.2	211.9	253.6
132.5°	25.0	36.2	47.5	58.7	70.0	81.2	92.5	103.7	140.5	177.3	214.1
135°	19.5	28.0	36.5	45.0	53.5	62.0	70.5	79.0	111.4	143.8	176.2
137.5°	14.6	20.6	26.6	32.7	38.7	44.7	50.8	56.8	85.1	113.3	141.6
140°	10.7	14.8	18.9	23.1	27.2	31.3	35.4	39.5	63.7	87.8	112.0
142.5°	8.0	10.7	13.5	16.2	19.0	21.7	24.5	27.2	47.5	67.8	88.1
145°	5.8	7.4	9.1	10.7	12.4	14.0	15.7	17.3	33.8	50.2	66.7
147.5°	4.7	5.8	6.9	8.0	9.1	10.2	11.3	12.4	25.3	38.2	51.1
150°	4.1	5.0	5.8	6.6	7.4	8.3	9.1	9.9	19.2	28.6	37.9
152.5°	3.6	4.1	4.7	5.2	5.8	6.3	6.9	7.4	14.0	20.6	27.2
155°	3.0	3.3	3.6	3.8	4.1	4.4	4.6	4.9	8.7	12.6	16.4
157.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.7	6.9	9.1
160°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.3	4.1	5.0
162.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
165°	1.9	1.7	1.4	1.1	0.8	0.6	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: P201398

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7
2.5°	1880.4	1881.7	1883.1	1884.5	1885.8	1887.2	1887.8	1888.3	1888.9	1889.4	1890.0
5°	1894.4	1897.4	1900.4	1903.5	1906.5	1909.5	1911.1	1912.8	1914.4	1916.1	1917.7
7.5°	1901.0	1905.6	1910.3	1915.0	1919.6	1924.3	1927.6	1930.9	1934.2	1937.5	1940.7
10°	1902.3	1909.2	1916.0	1922.9	1929.7	1936.6	1941.8	1947.0	1952.3	1957.5	1962.7
12.5°	1901.2	1910.3	1919.3	1928.4	1937.4	1946.5	1953.6	1960.8	1967.9	1975.1	1982.2
15°	1897.7	1908.9	1920.2	1931.4	1942.7	1953.9	1963.2	1972.6	1981.9	1991.2	2000.6
17.5°	1890.0	1904.3	1918.6	1932.8	1947.1	1961.4	1974.0	1986.6	1999.3	2011.9	2024.5
20°	1876.0	1893.5	1911.1	1928.7	1946.2	1963.8	1981.6	1999.5	2017.3	2035.2	2053.0
22.5°	1867.5	1889.7	1911.9	1934.2	1956.4	1978.6	2000.0	2021.4	2042.8	2064.2	2085.7
25°	1857.1	1885.3	1913.6	1941.9	1970.1	1998.4	2022.8	2047.3	2071.7	2096.1	2120.6
27.5°	1846.6	1881.0	1915.3	1949.6	1983.9	2018.2	2045.6	2073.1	2100.5	2128.0	2155.4
30°	1832.4	1873.0	1913.6	1954.3	1994.9	2035.5	2066.5	2097.5	2128.5	2159.5	2190.6
32.5°	1819.1	1866.4	1913.6	1960.8	2008.0	2055.2	2090.1	2124.9	2159.8	2194.6	2229.5
35°	1803.8	1857.0	1910.3	1963.5	2016.8	2070.0	2110.4	2150.7	2191.1	2231.4	2271.8
37.5°	1794.5	1854.0	1913.6	1973.2	2032.7	2092.3	2138.1	2184.0	2229.8	2275.6	2321.5
40°	1786.3	1852.4	1918.6	1984.7	2050.9	2117.0	2169.7	2222.4	2275.1	2327.8	2380.5
42.5°	1780.4	1853.2	1925.9	1998.6	2071.4	2144.1	2205.3	2266.5	2327.7	2388.9	2450.2
45°	1780.5	1860.6	1940.8	2020.9	2101.1	2181.2	2251.5	2321.7	2392.0	2462.3	2532.5
47.5°	1782.4	1871.1	1959.7	2048.4	2137.0	2225.7	2305.8	2386.0	2466.1	2546.3	2626.4
50°	1790.3	1887.8	1985.2	2082.6	2180.1	2277.5	2370.5	2463.6	2556.6	2649.7	2742.7
52.5°	1802.7	1910.0	2017.3	2124.7	2232.0	2339.3	2443.0	2546.8	2650.5	2754.3	2858.0
55°	1821.9	1940.2	2058.5	2176.8	2295.1	2413.4	2529.5	2645.6	2761.7	2877.8	2993.9
57.5°	1845.8	1975.6	2105.4	2235.3	2365.1	2494.9	2622.5	2750.2	2877.8	3005.4	3133.1
60°	1876.5	2019.0	2161.4	2303.9	2446.3	2588.8	2728.0	2867.1	3006.3	3145.4	3284.6
62.5°	1907.6	2062.1	2216.6	2371.2	2525.7	2680.2	2826.2	2972.2	3118.2	3264.2	3410.3
65°	1933.9	2100.0	2266.0	2432.1	2598.1	2764.2	2916.5	3068.8	3221.2	3373.5	3525.8
67.5°	1953.1	2130.2	2307.2	2484.2	2661.3	2838.3	2992.5	3146.8	3301.0	3455.3	3609.5
70°	1952.0	2136.2	2320.4	2504.5	2688.7	2872.9	3026.9	3180.9	3334.8	3488.8	3642.8
72.5°	1928.2	2115.6	2303.1	2490.6	2678.0	2865.5	3015.9	3166.3	3316.7	3467.1	3617.5
75°	1879.5	2065.4	2251.2	2437.0	2622.8	2808.6	2953.0	3097.4	3241.7	3386.1	3530.5
77.5°	1804.6	1984.7	2164.7	2344.8	2524.8	2704.9	2840.5	2976.1	3111.7	3247.3	3382.8
80°	1704.5	1874.9	2045.4	2215.8	2386.3	2556.7	2681.6	2806.5	2931.3	3056.2	3181.1
82.5°	1590.6	1749.2	1907.9	2066.5	2225.2	2383.8	2497.2	2610.5	2723.9	2837.2	2950.6
85°	1468.7	1614.1	1759.6	1905.1	2050.5	2196.0	2298.7	2401.3	2504.0	2606.6	2709.3
87.5°	1339.7	1471.4	1603.2	1734.9	1866.7	1998.4	2090.1	2181.8	2273.4	2365.1	2456.8
90°	1218.7	1338.0	1457.4	1576.8	1696.2	1815.6	1898.5	1981.4	2064.3	2147.2	2230.0
92.5°	1120.4	1228.8	1337.2	1445.7	1554.1	1662.5	1739.1	1815.6	1892.2	1968.8	2045.3
95°	1032.0	1131.9	1231.8	1331.7	1431.6	1531.5	1603.7	1675.9	1748.1	1820.3	1892.4
97.5°	948.8	1042.2	1135.5	1228.8	1322.1	1415.4	1483.2	1551.0	1618.8	1686.6	1754.4
100°	877.5	965.3	1053.1	1141.0	1228.8	1316.6	1382.2	1447.8	1513.4	1579.0	1644.6
102.5°	811.9	895.0	978.2	1061.4	1144.5	1227.7	1291.9	1356.1	1420.4	1484.6	1548.8
105°	753.4	832.5	911.5	990.6	1069.6	1148.7	1211.8	1274.9	1338.1	1401.2	1464.3
107.5°	704.0	780.6	857.2	933.7	1010.3	1086.9	1148.1	1209.3	1270.5	1331.7	1393.0
110°	651.3	724.6	797.9	871.1	944.4	1017.7	1078.1	1138.5	1198.9	1259.3	1319.6



TEST NUMBER: P201398

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	603.8	673.3	742.7	812.1	881.6	951.0	1010.0	1069.0	1128.0	1187.0	1246.1
115°	561.0	627.1	693.3	759.4	825.6	891.7	948.0	1004.2	1060.5	1116.8	1173.0
117.5°	519.3	582.4	645.5	708.7	771.8	834.9	888.7	942.5	996.3	1050.1	1103.9
120°	477.0	535.8	594.5	653.2	712.0	770.7	823.1	875.5	928.0	980.4	1032.8
122.5°	431.2	485.2	539.3	593.4	647.4	701.5	753.1	804.7	856.3	907.9	959.5
125°	388.6	438.9	489.1	539.3	589.6	639.8	688.7	737.5	786.4	835.2	884.1
127.5°	343.7	390.0	436.4	482.8	529.2	575.6	620.6	665.6	710.6	755.6	800.7
130°	295.3	337.1	378.8	420.5	462.2	503.9	545.3	586.8	628.2	669.7	711.1
132.5°	250.9	287.6	324.4	361.2	398.0	434.8	474.0	513.3	552.5	591.8	631.0
135°	208.6	240.9	273.3	305.7	338.1	370.5	407.8	445.2	482.5	519.8	557.2
137.5°	169.9	198.1	226.4	254.7	282.9	311.2	345.5	379.8	414.1	448.4	482.8
140°	136.1	160.3	184.4	208.6	232.7	256.9	286.0	315.1	344.2	373.3	402.3
142.5°	108.4	128.8	149.1	169.4	189.7	210.0	234.7	259.4	284.1	308.8	333.5
145°	83.2	99.6	116.1	132.6	149.0	165.5	186.4	207.2	228.1	248.9	269.8
147.5°	64.0	76.9	89.8	102.7	115.6	128.5	145.8	163.1	180.4	197.7	214.9
150°	47.2	56.6	65.9	75.2	84.6	93.9	108.2	122.4	136.7	151.0	165.2
152.5°	33.8	40.3	46.9	53.5	60.1	66.7	77.7	88.7	99.6	110.6	121.6
155°	20.3	24.1	28.0	31.8	35.7	39.5	48.3	57.1	65.9	74.7	83.4
157.5°	11.3	13.4	15.6	17.8	20.0	22.2	28.2	34.3	40.3	46.4	52.4
160°	5.8	6.6	7.4	8.3	9.1	9.9	13.5	17.0	20.6	24.2	27.7
162.5°	2.5	2.5	2.5	2.5	2.5	2.5	4.1	5.8	7.4	9.1	10.7
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.8	1.1	1.4
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201398

CATALOG NUMBER: 8LBLELD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7	1852.7
2.5°	1890.5	1891.1	1891.6	1892.2	1890.3	1888.4	1886.4	1884.5	1882.6	1880.7	1878.7
5°	1919.4	1921.0	1922.7	1924.3	1923.8	1923.2	1922.7	1922.1	1921.6	1921.0	1920.5
7.5°	1944.0	1947.3	1950.6	1953.9	1954.2	1954.5	1954.7	1955.0	1955.3	1955.6	1955.8
10°	1967.9	1973.2	1978.4	1983.6	1984.1	1984.7	1985.2	1985.8	1986.3	1986.9	1987.4
12.5°	1989.4	1996.5	2003.7	2010.8	2012.2	2013.5	2014.9	2016.3	2017.6	2019.0	2020.4
15°	2009.9	2019.2	2028.6	2037.9	2040.6	2043.4	2046.1	2048.9	2051.6	2054.4	2057.1
17.5°	2037.1	2049.8	2062.4	2075.0	2079.7	2084.3	2089.0	2093.7	2098.3	2103.0	2107.7
20°	2070.9	2088.7	2106.6	2124.4	2130.2	2135.9	2141.7	2147.5	2153.2	2159.0	2164.8
22.5°	2107.1	2128.5	2149.9	2171.3	2177.9	2184.5	2191.1	2197.7	2204.2	2210.8	2217.4
25°	2145.0	2169.4	2193.9	2218.3	2226.0	2233.7	2241.3	2249.0	2256.7	2264.4	2272.0
27.5°	2182.9	2210.3	2237.8	2265.2	2274.8	2284.4	2294.0	2303.6	2313.2	2322.8	2332.4
30°	2221.6	2252.6	2283.6	2314.6	2326.1	2337.6	2349.2	2360.7	2372.2	2383.7	2395.3
32.5°	2264.3	2299.2	2334.0	2368.9	2382.4	2395.8	2409.3	2422.7	2436.2	2449.6	2463.1
35°	2312.1	2352.5	2392.8	2433.2	2449.4	2465.6	2481.8	2498.0	2514.1	2530.3	2546.5
37.5°	2367.3	2413.1	2459.0	2504.8	2524.8	2544.9	2564.9	2584.9	2605.0	2625.0	2645.0
40°	2433.2	2485.9	2538.6	2591.3	2615.2	2639.1	2662.9	2686.8	2710.7	2734.6	2758.4
42.5°	2511.4	2572.6	2633.8	2695.0	2722.4	2749.9	2777.3	2804.8	2832.2	2859.7	2887.1
45°	2602.8	2673.1	2743.3	2813.6	2845.2	2876.7	2908.3	2939.9	2971.4	3003.0	3034.6
47.5°	2706.6	2786.7	2866.9	2947.0	2984.3	3021.6	3059.0	3096.3	3133.6	3170.9	3208.3
50°	2835.8	2928.8	3021.9	3114.9	3155.8	3196.7	3237.6	3278.5	3319.4	3360.3	3401.2
52.5°	2961.8	3065.5	3169.3	3273.0	3319.7	3366.3	3413.0	3459.7	3506.3	3553.0	3599.7
55°	3110.0	3226.1	3342.2	3458.3	3508.5	3558.8	3609.0	3659.2	3709.5	3759.7	3809.9
57.5°	3260.7	3388.3	3516.0	3643.6	3697.1	3750.6	3804.2	3857.7	3911.2	3964.7	4018.3
60°	3423.7	3562.9	3702.0	3841.2	3894.4	3947.7	4000.9	4054.2	4107.4	4160.7	4213.9
62.5°	3556.3	3702.3	3848.3	3994.3	4048.9	4103.5	4158.2	4212.8	4267.4	4322.0	4376.7
65°	3678.1	3830.5	3982.8	4135.1	4187.5	4240.0	4292.4	4344.8	4397.3	4449.7	4502.1
67.5°	3763.8	3918.0	4072.3	4226.5	4277.0	4327.5	4378.0	4428.5	4479.1	4529.6	4580.1
70°	3796.8	3950.7	4104.7	4258.7	4305.9	4353.1	4400.3	4447.5	4494.7	4541.9	4589.1
72.5°	3767.9	3918.3	4068.7	4219.1	4264.4	4309.7	4355.0	4400.3	4445.5	4490.8	4536.1
75°	3674.9	3819.2	3963.6	4108.0	4150.8	4193.6	4236.4	4279.2	4322.1	4364.9	4407.7
77.5°	3518.4	3654.0	3789.6	3925.2	3965.8	4006.4	4047.1	4087.7	4128.3	4168.9	4209.6
80°	3306.0	3430.8	3555.7	3680.6	3719.6	3758.6	3797.5	3836.5	3875.5	3914.5	3953.4
82.5°	3063.9	3177.3	3290.6	3404.0	3441.0	3478.1	3515.1	3552.2	3589.2	3626.3	3663.3
85°	2811.9	2914.6	3017.2	3119.9	3153.7	3187.4	3221.2	3254.9	3288.7	3322.4	3356.2
87.5°	2548.5	2640.1	2731.8	2823.5	2856.4	2889.4	2922.3	2955.2	2988.2	3021.1	3054.0
90°	2312.9	2395.8	2478.7	2561.6	2592.9	2624.2	2655.5	2686.8	2718.0	2749.3	2780.6
92.5°	2121.9	2198.5	2275.0	2351.6	2380.4	2409.2	2438.1	2466.9	2495.7	2524.5	2553.4
95°	1964.6	2036.8	2109.0	2181.2	2207.5	2233.9	2260.2	2286.6	2312.9	2339.3	2365.6
97.5°	1822.2	1890.0	1957.8	2025.6	2051.4	2077.2	2103.0	2128.8	2154.6	2180.4	2206.2
100°	1710.2	1775.8	1841.4	1907.0	1932.0	1957.0	1981.9	2006.9	2031.9	2056.9	2081.8
102.5°	1613.0	1677.3	1741.5	1805.7	1830.1	1854.6	1879.0	1903.4	1927.9	1952.3	1976.7
105°	1527.4	1590.6	1653.7	1716.8	1741.2	1765.6	1790.1	1814.5	1838.9	1863.3	1887.8
107.5°	1454.2	1515.4	1576.6	1637.8	1661.9	1686.1	1710.2	1734.4	1758.5	1782.7	1806.8
110°	1380.0	1440.4	1500.8	1561.2	1584.8	1608.4	1632.0	1655.6	1679.2	1702.8	1726.4



TEST NUMBER: P201398

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1305.1	1364.1	1423.1	1482.1	1505.7	1529.3	1552.9	1576.5	1600.2	1623.8	1647.4
115°	1229.3	1285.6	1341.8	1398.1	1421.4	1444.8	1468.1	1491.4	1514.8	1538.1	1561.4
117.5°	1157.7	1211.5	1265.3	1319.1	1341.1	1363.0	1385.0	1406.9	1428.9	1450.8	1472.8
120°	1085.2	1137.7	1190.1	1242.5	1263.4	1284.2	1305.1	1326.0	1346.8	1367.7	1388.6
122.5°	1011.1	1062.7	1114.3	1165.9	1186.2	1206.5	1226.8	1247.1	1267.5	1287.8	1308.1
125°	932.9	981.8	1030.6	1079.5	1100.1	1120.7	1141.3	1161.9	1182.4	1203.0	1223.6
127.5°	845.7	890.7	935.7	980.7	1001.0	1021.3	1041.6	1061.9	1082.3	1102.6	1122.9
130°	752.6	794.0	835.5	876.9	895.3	913.7	932.1	950.5	968.8	987.2	1005.6
132.5°	670.3	709.5	748.8	788.0	803.4	818.7	834.1	849.5	864.8	880.2	895.6
135°	594.5	631.8	669.2	706.5	719.7	732.9	746.0	759.2	772.4	785.6	798.7
137.5°	517.1	551.4	585.7	620.0	632.9	645.8	658.7	671.6	684.5	697.4	710.3
140°	431.4	460.5	489.6	518.7	533.0	547.3	561.5	575.8	590.1	604.4	618.6
142.5°	358.2	382.9	407.6	432.3	445.7	459.2	472.6	486.1	499.5	513.0	526.4
145°	290.6	311.5	332.3	353.2	366.7	380.1	393.6	407.0	420.5	433.9	447.4
147.5°	232.2	249.5	266.8	284.1	297.0	309.9	322.8	335.7	348.6	361.5	374.4
150°	179.5	193.8	208.0	222.3	234.4	246.5	258.5	270.6	282.7	294.8	306.8
152.5°	132.6	143.5	154.5	165.5	177.0	188.6	200.1	211.6	223.2	234.7	246.2
155°	92.2	101.0	109.8	118.6	128.8	138.9	149.1	159.2	169.4	179.5	189.7
157.5°	58.5	64.5	70.6	76.6	85.1	93.6	102.1	110.6	119.2	127.7	136.2
160°	31.3	34.9	38.4	42.0	48.9	55.7	62.6	69.4	76.3	83.1	90.0
162.5°	12.4	14.0	15.7	17.3	21.7	26.1	30.5	34.9	39.2	43.6	48.0
165°	1.7	1.9	2.2	2.5	5.0	7.4	9.9	12.4	14.8	17.3	19.8
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: P201398

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1852.7	1852.7
2.5°	1876.8	1874.9
5°	1919.9	1919.4
7.5°	1956.1	1956.4
10°	1988.0	1988.5
12.5°	2021.7	2023.1
15°	2059.9	2062.6
17.5°	2112.3	2117.0
20°	2170.5	2176.3
22.5°	2224.0	2230.6
25°	2279.7	2287.4
27.5°	2342.0	2351.6
30°	2406.8	2418.3
32.5°	2476.5	2490.0
35°	2562.7	2578.9
37.5°	2665.1	2685.1
40°	2782.3	2806.2
42.5°	2914.6	2942.0
45°	3066.1	3097.7
47.5°	3245.6	3282.9
50°	3442.1	3483.0
52.5°	3646.3	3693.0
55°	3860.2	3910.4
57.5°	4071.8	4125.3
60°	4267.2	4320.4
62.5°	4431.3	4485.9
65°	4554.6	4607.0
67.5°	4630.6	4681.1
70°	4636.3	4683.5
72.5°	4581.4	4626.7
75°	4450.5	4493.3
77.5°	4250.2	4290.8
80°	3992.4	4031.4
82.5°	3700.4	3737.4
85°	3389.9	3423.7
87.5°	3087.0	3119.9
90°	2811.9	2843.2
92.5°	2582.2	2611.0
95°	2392.0	2418.3
97.5°	2232.0	2257.8
100°	2106.8	2131.8
102.5°	2001.2	2025.6
105°	1912.2	1936.6
107.5°	1831.0	1855.1
110°	1750.0	1773.6



TEST NUMBER: P201398

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1671.0	1694.6
115°	1584.8	1608.1
117.5°	1494.7	1516.7
120°	1409.4	1430.3
122.5°	1328.4	1348.7
125°	1244.2	1264.8
127.5°	1143.2	1163.5
130°	1024.0	1042.4
132.5°	910.9	926.3
135°	811.9	825.1
137.5°	723.2	736.1
140°	632.9	647.2
142.5°	539.9	553.3
145°	460.8	474.3
147.5°	387.3	400.2
150°	318.9	331.0
152.5°	257.8	269.3
155°	199.8	210.0
157.5°	144.7	153.2
160°	96.8	103.7
162.5°	52.4	56.8
165°	22.2	24.7
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)