

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: P201416

Luminaire Tested: **8LBLED-LD4-16-ASYMW-UNV-L850-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28229)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8LBLEDD4-16-ASYMW-UNV-L850-CD2-U
Description: 8 ft. Low Bay Linear, 10000 lm, Wht Asym lens, 5K
Light Source: (616) 5000K CCT, 80 CRI LEDS
2UT217098A8504C, 2UT217056A8504B
Ballast/Driver: OSRAM
(OT85W01800CC), (OT50W01000CC)

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17054.3 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 2.07 / 1.2 / 1.84
Luminous Opening: Rectangular w/ Sides (W: 8' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

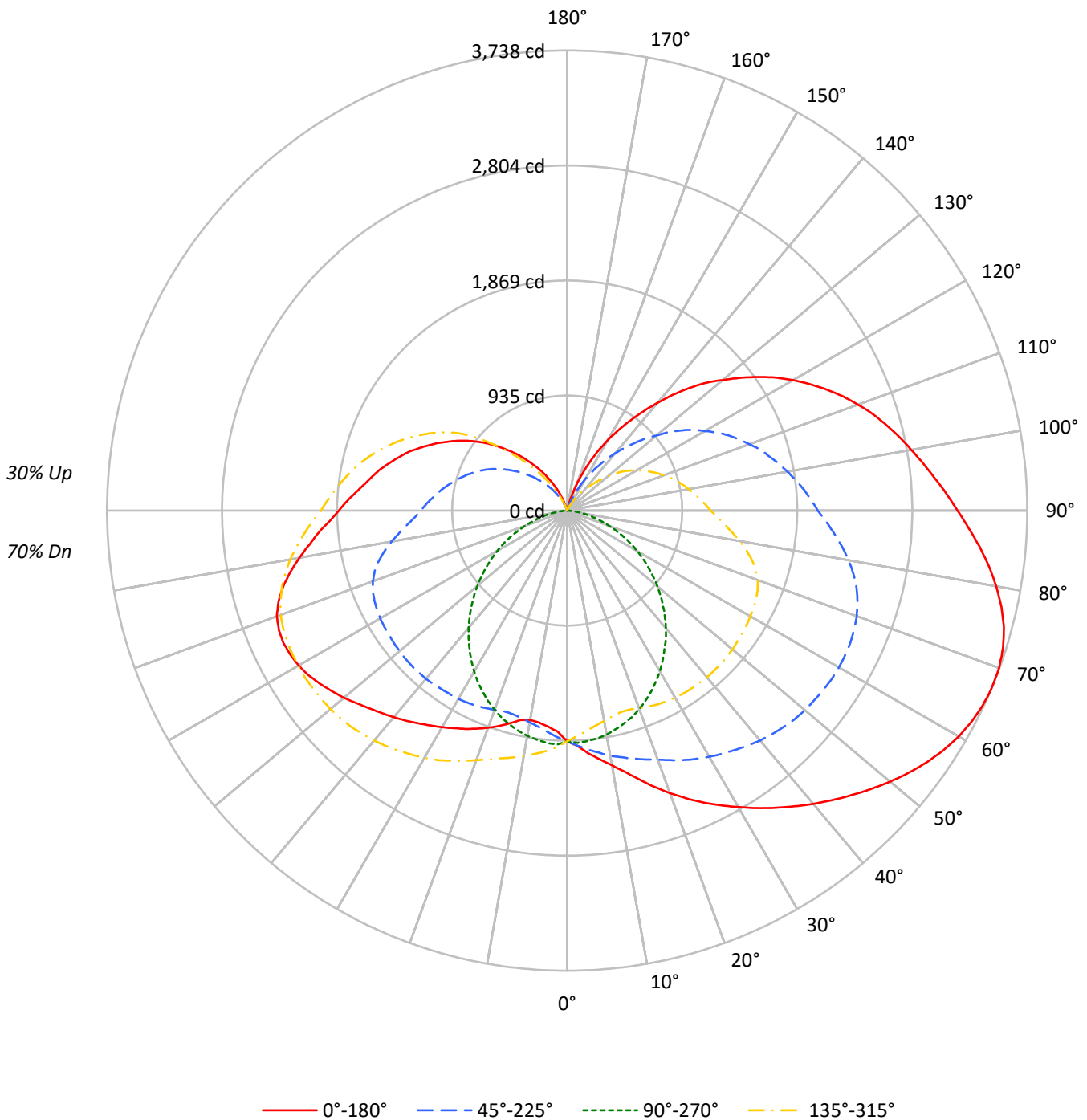
Input Watts (W): 133.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75	70
1	97	90	84	79	91	85	80	75	75	71	67	66	63	60	58	55	53	48
2	86	76	68	60	81	72	64	57	63	57	51	55	50	46	48	44	40	36
3	78	65	56	48	72	61	53	46	54	47	41	47	41	36	41	36	32	28
4	70	57	47	39	65	53	44	37	47	39	33	41	35	30	35	30	26	23
5	64	50	40	33	60	47	38	31	41	34	28	36	30	25	31	26	22	19
6	59	44	35	28	55	42	33	26	37	29	24	32	26	21	28	23	19	16
7	54	40	30	24	50	37	29	23	33	26	21	29	23	18	25	20	16	14
8	50	36	27	21	47	34	26	20	30	23	18	27	21	16	23	18	14	12
9	47	33	24	18	44	31	23	18	27	21	16	24	18	14	21	16	13	10
10	44	30	22	16	41	28	21	16	25	19	14	22	17	13	20	15	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15093	15093	15093	15093
5°	14438	15167	12856	15285
10°	14091	15052	11587	15137
15°	14129	14826	11181	14912
20°	14411	14565	11076	14617
25°	14711	14218	11004	14255
30°	15049	13805	10996	13843
35°	15486	13299	11081	13340
40°	15996	12840	11265	12819
45°	16587	12256	11527	12209
50°	17282	11641	11936	11591
55°	18022	10934	12391	10850
60°	18739	10132	12850	10100
65°	19370	9191	13206	9191
70°	19892	8027	13369	7981
75°	20247	6629	13164	6629
80°	20369	4808	12712	4978
85°	20403	2380	12290	2822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.9	1.0
10°-20°	539.3	3.2
20°-30°	908.0	5.3
30°-40°	1260.1	7.4
40°-50°	1576.3	9.2
50°-60°	1831.1	10.7
60°-70°	1981.6	11.6
70°-80°	1949.7	11.4
80°-90°	1730.4	10.1
90°-100°	1495.0	8.8
100°-110°	1260.7	7.4
110°-120°	987.8	5.8
120°-130°	693.8	4.1
130°-140°	410.4	2.4
140°-150°	189.2	1.1
150°-160°	56.7	0.3
160°-170°	5.2	0.0
170°-180°	0.0	0.0
0°-30°	1626.2	9.5
0°-40°	2886.3	16.9
0°-60°	6293.8	36.9
0°-90°	11955.4	70.1
90°-120°	3743.5	22.0
90°-150°	5036.9	29.5
90°-180°	5099.0	29.9
0°-180°	17054.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1873	1873	1873	1873	1873	
5°	1980	1880	1763	1894	1980	192
15°	2259	1790	1788	1800	2259	647
25°	2616	1619	1957	1623	2616	1215
35°	2948	1377	2109	1381	2948	1855
45°	3269	1104	2272	1099	3269	2535
55°	3565	807	2451	801	3565	3195
65°	3730	509	2543	509	3730	3692
75°	3674	234	2389	234	3674	3870
85°	3363	33	2026	40	3363	2783
90°	3171	0	1855	2	3171	1739
95°	3000	0	1721	2	3000	2419
105°	2685	0	1494	2	2685	2840
115°	2326	0	1250	2	2326	2308
125°	1892	0	989	2	1892	1699
135°	1410	0	703	2	1410	1095
145°	893	0	428	2	893	568
155°	432	0	182	2	432	208
165°	69	0	8	4	69	28
175°	0	0	0	4	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3
2.5°	1913.0	1912.3	1911.6	1910.9	1910.2	1909.5	1908.8	1908.1	1907.4	1906.7	1907.2
5°	1979.7	1977.4	1975.1	1972.8	1970.5	1968.1	1965.8	1963.5	1961.2	1958.9	1957.7
7.5°	2038.1	2035.1	2032.1	2029.1	2026.1	2023.0	2020.0	2017.0	2014.0	2011.0	2008.0
10°	2100.7	2096.5	2092.4	2088.2	2084.0	2079.9	2075.7	2071.5	2067.4	2063.2	2058.8
12.5°	2173.7	2168.1	2162.6	2157.0	2151.5	2145.9	2140.4	2134.8	2129.3	2123.7	2115.8
15°	2259.3	2252.3	2245.4	2238.4	2231.5	2224.5	2217.6	2210.6	2203.7	2196.7	2184.4
17.5°	2353.1	2344.3	2335.5	2326.7	2317.9	2309.1	2300.3	2291.5	2282.7	2273.9	2256.7
20°	2442.8	2432.1	2421.5	2410.8	2400.2	2389.5	2378.9	2368.2	2357.6	2346.9	2325.3
22.5°	2530.5	2518.2	2505.9	2493.6	2481.3	2469.1	2456.8	2444.5	2432.2	2419.9	2394.9
25°	2616.0	2602.6	2589.1	2575.7	2562.2	2548.8	2535.3	2521.9	2508.4	2495.0	2466.3
27.5°	2699.4	2684.8	2670.2	2655.6	2641.0	2626.4	2611.8	2597.2	2582.6	2568.0	2535.3
30°	2780.8	2764.8	2748.8	2732.8	2716.8	2700.9	2684.9	2668.9	2652.9	2636.9	2600.5
32.5°	2866.3	2848.5	2830.6	2812.8	2794.9	2777.1	2759.2	2741.4	2723.5	2705.7	2665.4
35°	2947.7	2928.2	2908.7	2889.3	2869.8	2850.3	2830.8	2811.4	2791.9	2772.4	2728.1
37.5°	3029.0	3007.9	2986.8	2965.7	2944.6	2923.6	2902.5	2881.4	2860.3	2839.2	2791.2
40°	3110.4	3087.7	3065.0	3042.3	3019.6	2996.8	2974.1	2951.4	2928.7	2906.0	2854.1
42.5°	3189.7	3165.4	3141.0	3116.7	3092.3	3068.0	3043.6	3019.3	2994.9	2970.6	2914.3
45°	3268.9	3242.7	3216.5	3190.3	3164.1	3138.0	3111.8	3085.6	3059.4	3033.2	2972.5
47.5°	3348.2	3320.2	3292.1	3264.1	3236.0	3208.0	3179.9	3151.9	3123.8	3095.8	3030.4
50°	3425.4	3395.5	3365.6	3335.7	3305.8	3275.9	3246.0	3216.1	3186.2	3156.3	3085.8
52.5°	3498.4	3466.6	3434.9	3403.1	3371.4	3339.6	3307.9	3276.1	3244.4	3212.6	3136.8
55°	3565.2	3531.8	3498.4	3465.1	3431.7	3398.3	3364.9	3331.6	3298.2	3264.8	3184.4
57.5°	3623.6	3589.1	3554.5	3520.0	3485.5	3450.9	3416.4	3381.9	3347.3	3312.8	3227.7
60°	3671.6	3636.4	3601.1	3565.9	3530.7	3495.4	3460.2	3425.0	3389.7	3354.5	3265.0
62.5°	3707.0	3671.1	3635.2	3599.2	3563.3	3527.4	3491.5	3455.5	3419.6	3383.7	3290.5
65°	3730.0	3693.8	3657.7	3621.5	3585.3	3549.2	3513.0	3476.8	3440.7	3404.5	3308.3
67.5°	3738.3	3702.1	3666.0	3629.8	3593.7	3557.5	3521.4	3485.2	3449.1	3412.9	3314.2
70°	3734.1	3697.9	3661.8	3625.6	3589.5	3553.3	3517.2	3481.0	3444.9	3408.7	3308.1
72.5°	3713.3	3676.9	3640.5	3604.1	3567.7	3531.4	3495.0	3458.6	3422.2	3385.8	3284.5
75°	3673.7	3637.8	3601.8	3565.9	3530.0	3494.0	3458.1	3422.2	3386.2	3350.3	3248.5
77.5°	3613.2	3578.0	3542.7	3507.5	3472.3	3437.0	3401.8	3366.6	3331.3	3296.1	3194.6
80°	3540.1	3505.3	3470.6	3435.8	3401.0	3366.3	3331.5	3296.7	3262.0	3227.2	3126.6
82.5°	3454.6	3420.3	3386.0	3351.7	3317.4	3283.1	3248.8	3214.5	3180.2	3145.9	3046.7
85°	3362.8	3329.0	3295.1	3261.3	3227.4	3193.6	3159.7	3125.9	3092.0	3058.2	2960.6
87.5°	3264.8	3231.4	3198.0	3164.7	3131.3	3097.9	3064.5	3031.2	2997.8	2964.4	2869.1
90°	3170.9	3137.5	3104.1	3070.8	3037.4	3004.0	2970.6	2937.3	2903.9	2870.5	2777.8
92.5°	3085.4	3053.2	3021.0	2988.7	2956.5	2924.3	2892.1	2859.8	2827.6	2795.4	2705.2
95°	2999.8	2968.7	2937.7	2906.6	2875.6	2844.5	2813.5	2782.4	2751.4	2720.3	2632.7
97.5°	2918.5	2888.1	2857.8	2827.4	2797.0	2766.7	2736.3	2705.9	2675.6	2645.2	2559.7
100°	2839.2	2809.3	2779.4	2749.5	2719.6	2689.7	2659.8	2629.9	2600.0	2570.1	2486.4
102.5°	2764.1	2734.7	2705.2	2675.8	2646.4	2616.9	2587.5	2558.1	2528.6	2499.2	2417.1
105°	2684.8	2655.8	2626.9	2597.9	2568.9	2540.0	2511.0	2482.0	2453.1	2424.1	2343.7
107.5°	2605.6	2576.6	2547.6	2518.7	2489.7	2460.7	2431.7	2402.8	2373.8	2344.8	2267.1
110°	2515.9	2487.4	2458.9	2430.4	2401.9	2373.3	2344.8	2316.3	2287.8	2259.3	2183.5



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	2424.1	2397.2	2370.3	2343.4	2316.5	2289.7	2262.8	2235.9	2209.0	2182.1	2107.5
115°	2326.0	2299.8	2273.6	2247.4	2221.2	2195.1	2168.9	2142.7	2116.5	2090.3	2018.7
117.5°	2223.8	2198.3	2172.8	2147.3	2121.8	2096.3	2070.8	2045.3	2019.8	1994.3	1925.2
120°	2119.5	2094.7	2069.9	2045.1	2020.3	1995.5	1970.7	1945.9	1921.1	1896.3	1829.1
122.5°	2011.0	1987.1	1963.2	1939.4	1915.5	1891.6	1867.7	1843.9	1820.0	1796.1	1732.1
125°	1892.1	1869.8	1847.6	1825.3	1803.1	1780.8	1758.6	1736.3	1714.1	1691.8	1630.1
127.5°	1771.1	1750.2	1729.4	1708.5	1687.7	1666.8	1646.0	1625.1	1604.3	1583.4	1524.1
130°	1650.1	1630.4	1610.7	1591.0	1571.3	1551.6	1531.9	1512.2	1492.5	1472.8	1414.4
132.5°	1539.6	1519.4	1499.3	1479.1	1458.9	1438.8	1418.6	1398.4	1378.3	1358.1	1303.6
135°	1410.2	1391.2	1372.2	1353.2	1334.2	1315.2	1296.2	1277.2	1258.2	1239.2	1187.7
137.5°	1278.8	1260.5	1242.2	1223.9	1205.6	1187.2	1168.9	1150.6	1132.3	1114.0	1066.9
140°	1143.2	1127.0	1110.8	1094.5	1078.3	1062.1	1045.9	1029.6	1013.4	997.2	953.9
142.5°	1013.9	999.5	985.1	970.8	956.4	942.0	927.6	913.3	898.9	884.5	844.9
145°	892.9	880.1	867.4	854.6	841.9	829.1	816.4	803.6	790.9	778.1	741.0
147.5°	773.9	762.3	750.7	739.1	727.5	716.0	704.4	692.8	681.2	669.6	636.2
150°	659.2	649.0	638.8	628.6	618.4	608.2	598.0	587.8	577.6	567.4	537.3
152.5°	546.6	536.6	526.7	516.7	506.7	496.8	486.8	476.8	466.9	456.9	431.2
155°	431.8	423.7	415.6	407.5	399.4	391.2	383.1	375.0	366.9	358.8	336.5
157.5°	327.5	320.8	314.1	307.3	300.6	293.9	287.2	280.4	273.7	267.0	248.2
160°	229.5	223.9	218.4	212.8	207.2	201.7	196.1	190.5	185.0	179.4	165.5
162.5°	135.6	131.9	128.2	124.5	120.8	117.0	113.3	109.6	105.9	102.2	93.6
165°	68.8	66.5	64.2	61.9	59.6	57.2	54.9	52.6	50.3	48.0	43.6
167.5°	22.9	22.0	21.1	20.1	19.2	18.3	17.4	16.4	15.5	14.6	13.0
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°	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3
2.5°	1907.6	1908.1	1908.6	1909.0	1909.5	1910.0	1910.4	1910.9	1907.4	1903.9	1900.5
5°	1956.6	1955.4	1954.2	1953.1	1951.9	1950.7	1949.6	1948.4	1942.6	1936.8	1931.0
7.5°	2005.0	2002.0	1999.0	1995.9	1992.9	1989.9	1986.9	1983.9	1975.1	1966.3	1957.5
10°	2054.4	2050.0	2045.6	2041.1	2036.7	2032.3	2027.9	2023.5	2010.8	1998.0	1985.3
12.5°	2107.9	2100.0	2092.1	2084.3	2076.4	2068.5	2060.6	2052.7	2036.7	2020.7	2004.7
15°	2172.1	2159.8	2147.5	2135.3	2123.0	2110.7	2098.4	2086.1	2066.2	2046.2	2026.3
17.5°	2239.6	2222.4	2205.3	2188.1	2171.0	2153.8	2136.7	2119.5	2094.9	2070.4	2045.8
20°	2303.8	2282.2	2260.7	2239.1	2217.6	2196.0	2174.5	2152.9	2123.2	2093.5	2063.9
22.5°	2369.8	2344.8	2319.8	2294.7	2269.7	2244.7	2219.6	2194.6	2158.7	2122.7	2086.8
25°	2437.5	2408.8	2380.0	2351.3	2322.5	2293.8	2265.0	2236.3	2193.7	2151.0	2108.4
27.5°	2502.6	2470.0	2437.3	2404.6	2371.9	2339.3	2306.6	2273.9	2225.0	2176.1	2127.2
30°	2564.1	2527.7	2491.3	2454.9	2418.5	2382.1	2345.7	2309.3	2254.4	2199.4	2144.5
32.5°	2625.0	2584.7	2544.4	2504.0	2463.7	2423.4	2383.0	2342.7	2281.5	2220.3	2159.1
35°	2683.9	2639.6	2595.3	2551.1	2506.8	2462.5	2418.3	2374.0	2307.5	2241.0	2174.4
37.5°	2743.2	2695.3	2647.3	2599.3	2551.3	2503.4	2455.4	2407.4	2335.3	2263.2	2191.1
40°	2802.2	2750.2	2698.3	2646.4	2594.5	2542.5	2490.6	2438.7	2361.3	2283.9	2206.4
42.5°	2858.0	2801.6	2745.3	2689.0	2632.7	2576.3	2520.0	2463.7	2381.2	2298.7	2216.1
45°	2911.8	2851.0	2790.3	2729.6	2668.9	2608.1	2547.4	2486.7	2399.1	2311.5	2223.8
47.5°	2965.1	2899.7	2834.3	2769.0	2703.6	2638.2	2572.9	2507.5	2415.0	2322.5	2230.1
50°	3015.4	2944.9	2874.4	2804.0	2733.5	2663.0	2592.6	2522.1	2425.0	2327.9	2230.7
52.5°	3061.0	2985.2	2909.4	2833.7	2757.9	2682.1	2606.3	2530.5	2429.2	2327.9	2226.6
55°	3103.9	3023.5	2943.1	2862.6	2782.2	2701.8	2621.3	2540.9	2435.0	2329.0	2223.1
57.5°	3142.6	3057.6	2972.5	2887.4	2802.3	2717.3	2632.2	2547.1	2436.5	2326.0	2215.4
60°	3175.5	3086.1	2996.6	2907.1	2817.6	2728.2	2638.7	2549.2	2434.7	2320.2	2205.7
62.5°	3197.3	3104.2	3011.0	2917.8	2824.6	2731.5	2638.3	2545.1	2426.9	2308.7	2190.4
65°	3212.1	3115.9	3019.7	2923.6	2827.4	2731.2	2635.0	2538.8	2416.6	2294.5	2172.3
67.5°	3215.4	3116.7	3017.9	2919.2	2820.4	2721.7	2622.9	2524.2	2398.8	2273.4	2148.0
70°	3207.5	3106.9	3006.3	2905.7	2805.1	2704.5	2603.9	2503.3	2375.1	2246.9	2118.8
72.5°	3183.2	3081.9	2980.6	2879.3	2778.0	2676.7	2575.4	2474.1	2343.8	2213.6	2083.3
75°	3146.8	3045.0	2943.3	2841.5	2739.8	2638.0	2536.3	2434.5	2302.8	2171.2	2039.5
77.5°	3093.0	2991.5	2890.0	2788.4	2686.9	2585.4	2483.8	2382.3	2250.2	2118.1	1986.0
80°	3026.0	2925.4	2824.8	2724.2	2623.6	2523.0	2422.4	2321.8	2190.6	2059.4	1928.2
82.5°	2947.5	2848.3	2749.1	2649.8	2550.6	2451.4	2352.2	2253.0	2123.2	1993.4	1863.6
85°	2863.0	2765.5	2667.9	2570.3	2472.7	2375.2	2277.6	2180.0	2052.1	1924.1	1796.2
87.5°	2773.9	2678.6	2583.3	2488.1	2392.8	2297.5	2202.3	2107.0	1981.6	1856.2	1730.8
90°	2685.1	2592.3	2499.6	2406.9	2314.2	2221.4	2128.7	2036.0	1913.2	1790.3	1667.5
92.5°	2615.1	2524.9	2434.7	2344.6	2254.4	2164.2	2074.1	1983.9	1863.4	1742.8	1622.3
95°	2545.1	2457.4	2369.8	2282.2	2194.6	2106.9	2019.3	1931.7	1813.0	1694.4	1575.7
97.5°	2474.1	2388.6	2303.1	2217.5	2132.0	2046.5	1960.9	1875.4	1759.0	1642.7	1526.3
100°	2402.7	2319.1	2235.4	2151.7	2068.0	1984.4	1900.7	1817.0	1703.0	1588.9	1474.9
102.5°	2335.1	2253.0	2171.0	2088.9	2006.9	1924.8	1842.8	1760.7	1648.7	1536.8	1424.8
105°	2263.2	2182.8	2102.4	2021.9	1941.5	1861.1	1780.6	1700.2	1590.3	1480.5	1370.6
107.5°	2189.5	2111.8	2034.2	1956.5	1878.9	1801.2	1723.6	1645.9	1537.4	1428.9	1320.5
110°	2107.7	2031.9	1956.1	1880.3	1804.5	1728.7	1652.9	1577.1	1471.6	1366.2	1260.7



TEST NUMBER: P201416

CATALOG NUMBER: 8LBLED-LD4-16-ASYMW-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°	2032.8	1958.2	1883.5	1808.9	1734.2	1659.6	1584.9	1510.3	1407.4	1304.5	1201.6
115°	1947.1	1875.4	1803.8	1732.2	1660.6	1588.9	1517.3	1445.7	1345.1	1244.5	1143.9
117.5°	1856.2	1787.1	1718.0	1649.0	1579.9	1510.8	1441.8	1372.7	1274.4	1176.1	1077.9
120°	1761.9	1694.6	1627.4	1560.2	1493.0	1425.7	1358.5	1291.3	1197.2	1103.1	1009.0
122.5°	1668.2	1604.2	1540.2	1476.3	1412.3	1348.3	1284.4	1220.4	1129.3	1038.2	947.1
125°	1568.5	1506.8	1445.2	1383.5	1321.9	1260.2	1198.6	1136.9	1050.2	963.5	876.8
127.5°	1464.7	1405.4	1346.0	1286.7	1227.3	1168.0	1108.6	1049.3	967.7	886.1	804.5
130°	1356.0	1297.6	1239.2	1180.7	1122.3	1063.9	1005.5	947.1	872.2	797.4	722.5
132.5°	1249.1	1194.7	1140.2	1085.7	1031.2	976.8	922.3	867.8	797.3	726.9	656.4
135°	1136.3	1084.8	1033.3	981.9	930.4	878.9	827.5	776.0	711.3	646.7	582.0
137.5°	1019.9	972.8	925.8	878.7	831.7	784.6	737.6	690.5	631.2	571.8	512.5
140°	910.5	867.2	823.8	780.5	737.1	693.8	650.4	607.1	552.9	498.6	444.4
142.5°	805.2	765.6	726.0	686.3	646.7	607.1	567.4	527.8	478.0	428.1	378.3
145°	703.9	666.8	629.7	592.7	555.6	518.5	481.4	444.3	401.0	357.6	314.3
147.5°	602.8	569.5	536.1	502.7	469.3	436.0	402.6	369.2	332.1	295.0	258.0
150°	507.1	477.0	446.9	416.7	386.6	356.5	326.3	296.2	266.1	235.9	205.8
152.5°	405.4	379.7	354.0	328.2	302.5	276.8	251.0	225.3	201.9	178.5	155.1
155°	314.3	292.0	269.8	247.5	225.3	203.0	180.8	158.5	141.6	124.7	107.8
157.5°	229.4	210.7	191.9	173.1	154.3	135.6	116.8	98.0	87.1	76.2	65.3
160°	151.6	137.7	123.8	109.8	95.9	82.0	68.1	54.2	48.2	42.2	36.1
162.5°	85.0	76.5	67.9	59.3	50.7	42.2	33.6	25.0	22.2	19.4	16.7
165°	39.2	34.8	30.4	25.9	21.5	17.1	12.7	8.3	7.4	6.5	5.5
167.5°	11.4	9.7	8.1	6.5	4.9	3.2	1.6	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: P201416

CATALOG NUMBER: 8LBLEDD4-16-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3
2.5°	1897.0	1893.5	1890.0	1886.6	1883.1	1879.6	1880.5	1881.4	1882.4	1883.3	1884.2
5°	1925.2	1919.5	1913.7	1907.9	1902.1	1896.3	1894.4	1892.6	1890.7	1888.9	1887.0
7.5°	1948.7	1939.8	1931.0	1922.2	1913.4	1904.6	1900.4	1896.3	1892.1	1887.9	1883.8
10°	1972.5	1959.8	1947.0	1934.3	1921.5	1908.8	1902.1	1895.4	1888.6	1881.9	1875.2
12.5°	1988.7	1972.8	1956.8	1940.8	1924.8	1908.8	1898.8	1888.9	1878.9	1868.9	1859.0
15°	2006.4	1986.4	1966.5	1946.6	1926.6	1906.7	1893.7	1880.7	1867.8	1854.8	1841.8
17.5°	2021.2	1996.7	1972.1	1947.5	1923.0	1898.4	1882.6	1866.9	1851.1	1835.3	1819.6
20°	2034.2	2004.5	1974.8	1945.2	1915.5	1885.8	1866.8	1847.8	1828.8	1809.8	1790.8
22.5°	2050.9	2014.9	1979.0	1943.1	1907.1	1871.2	1848.7	1826.2	1803.8	1781.3	1758.8
25°	2065.7	2023.1	1980.4	1937.8	1895.1	1852.5	1826.5	1800.6	1774.6	1748.6	1722.7
27.5°	2078.3	2029.3	1980.4	1931.5	1882.6	1833.7	1803.6	1773.4	1743.3	1713.2	1683.0
30°	2089.6	2034.6	1979.7	1924.8	1869.8	1814.9	1780.6	1746.3	1712.0	1677.7	1643.4
32.5°	2097.9	2036.8	1975.6	1914.4	1853.2	1792.0	1753.3	1714.6	1675.9	1637.2	1598.4
35°	2107.9	2041.4	1974.9	1908.3	1841.8	1775.3	1731.0	1686.7	1642.5	1598.2	1553.9
37.5°	2119.0	2047.0	1974.9	1902.8	1830.7	1758.6	1709.5	1660.3	1611.2	1562.0	1512.9
40°	2129.0	2051.6	1974.2	1896.7	1819.3	1741.9	1687.0	1632.0	1577.1	1522.2	1467.2
42.5°	2133.6	2051.1	1968.6	1886.0	1803.5	1721.0	1660.5	1600.0	1539.5	1479.0	1418.6
45°	2136.2	2048.6	1961.0	1873.3	1785.7	1698.1	1632.0	1566.0	1499.9	1433.9	1367.8
47.5°	2137.6	2045.1	1952.6	1860.2	1767.7	1675.2	1603.6	1531.9	1460.3	1388.7	1317.0
50°	2133.6	2036.5	1939.4	1842.2	1745.1	1648.0	1571.3	1494.6	1417.8	1341.1	1264.4
52.5°	2125.3	2024.0	1922.7	1821.4	1720.1	1618.8	1536.7	1454.7	1372.6	1290.6	1208.5
55°	2117.2	2011.2	1905.3	1799.4	1693.4	1587.5	1500.8	1414.1	1327.4	1240.7	1154.1
57.5°	2104.9	1994.3	1883.8	1773.2	1662.7	1552.1	1461.0	1369.9	1278.8	1187.7	1096.6
60°	2091.2	1976.7	1862.2	1747.7	1633.2	1518.7	1423.0	1327.2	1231.5	1135.8	1040.0
62.5°	2072.2	1954.0	1835.8	1717.5	1599.3	1481.1	1381.4	1281.8	1182.1	1082.4	982.8
65°	2050.2	1928.0	1805.9	1683.7	1561.6	1439.4	1336.0	1232.6	1129.3	1025.9	922.5
67.5°	2022.6	1897.2	1771.8	1646.4	1521.0	1395.6	1288.7	1181.9	1075.0	968.2	861.3
70°	1990.6	1862.4	1734.2	1606.1	1477.9	1349.7	1240.3	1130.9	1021.5	912.1	802.7
72.5°	1953.0	1822.8	1692.5	1562.2	1432.0	1301.7	1190.2	1078.7	967.2	855.7	744.3
75°	1907.9	1776.2	1644.6	1512.9	1381.3	1249.6	1136.7	1023.8	910.9	798.0	685.2
77.5°	1853.9	1721.7	1589.6	1457.5	1325.4	1193.3	1079.9	966.6	853.2	739.9	626.5
80°	1797.0	1665.9	1534.7	1403.5	1272.3	1141.1	1027.5	913.9	800.4	686.8	573.2
82.5°	1733.8	1604.0	1474.2	1344.4	1214.6	1084.8	972.1	859.5	746.8	634.2	521.5
85°	1668.2	1540.3	1412.3	1284.4	1156.4	1028.5	917.9	807.4	696.8	586.2	475.7
87.5°	1605.4	1480.0	1354.6	1229.2	1103.8	978.4	870.2	761.9	653.7	545.4	437.2
90°	1544.6	1421.8	1298.9	1176.1	1053.2	930.4	827.0	723.6	620.3	516.9	413.5
92.5°	1501.8	1381.2	1260.7	1140.2	1019.6	899.1	799.2	699.3	599.4	499.5	399.6
95°	1457.0	1338.4	1219.7	1101.0	982.4	863.7	767.7	671.8	575.8	479.8	383.9
97.5°	1410.0	1293.6	1177.3	1060.9	944.6	828.2	736.2	644.2	552.1	460.1	368.1
100°	1360.8	1246.8	1132.7	1018.7	904.6	790.6	702.8	614.9	527.1	439.2	351.4
102.5°	1312.9	1200.9	1089.0	977.0	865.1	753.1	669.4	585.7	502.1	418.4	334.7
105°	1260.7	1150.9	1041.0	931.1	821.3	711.4	632.4	553.3	474.3	395.2	316.2
107.5°	1212.0	1103.5	995.0	886.6	778.1	669.6	595.2	520.8	446.4	372.0	297.6
110°	1155.2	1049.8	944.3	838.8	733.4	627.9	558.1	488.4	418.6	348.8	279.1



TEST NUMBER: P201416

CATALOG NUMBER: 8LBLED-LD4-16-ASYMW-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°	1098.7	995.7	892.8	789.9	687.0	584.1	519.2	454.3	389.4	324.5	259.6
115°	1043.3	942.7	842.1	741.5	640.9	540.3	480.3	420.2	360.2	300.2	240.1
117.5°	979.6	881.3	783.0	684.8	586.5	488.2	434.0	379.7	325.5	271.2	217.0
120°	914.9	820.7	726.6	632.5	538.4	444.3	394.9	345.6	296.2	246.8	197.5
122.5°	856.0	764.9	673.8	582.7	491.6	400.5	356.0	311.5	267.0	222.5	178.0
125°	790.1	703.5	616.8	530.1	443.4	356.7	317.1	277.4	237.8	198.2	158.5
127.5°	722.9	641.4	559.8	478.2	396.6	315.0	280.0	245.0	210.0	175.0	140.0
130°	647.6	572.8	497.9	423.0	348.2	273.3	242.9	212.6	182.2	151.8	121.5
132.5°	585.9	515.5	445.0	374.5	304.1	233.6	207.6	181.7	155.7	129.8	103.8
135°	517.3	452.7	388.0	323.3	258.7	194.0	172.4	150.9	129.3	107.8	86.2
137.5°	453.2	393.8	334.5	275.2	215.8	156.5	139.1	121.7	104.3	86.9	69.6
140°	390.1	335.9	281.6	227.4	173.1	118.9	105.7	92.5	79.3	66.1	52.8
142.5°	328.5	278.6	228.8	179.0	129.1	79.3	70.5	61.7	52.9	44.1	35.2
145°	270.9	227.6	184.2	140.9	97.5	54.2	48.2	42.2	36.1	30.1	24.1
147.5°	220.9	183.8	146.7	109.7	72.6	35.5	31.6	27.6	23.7	19.7	15.8
150°	175.7	145.5	115.4	85.3	55.1	25.0	22.2	19.4	16.7	13.9	11.1
152.5°	131.7	108.2	84.8	61.4	38.0	14.6	13.0	11.4	9.7	8.1	6.5
155°	90.9	73.9	57.0	40.1	23.2	6.3	5.6	4.9	4.2	3.5	2.8
157.5°	54.4	43.6	32.7	21.8	10.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	30.1	24.1	18.1	12.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	13.9	11.1	8.3	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
165°	4.6	3.7	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201416

CATALOG NUMBER: 8LBLEDD4-16-ASYMW-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°	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3
2.5°	1885.1	1886.1	1887.0	1887.9	1883.3	1878.6	1874.0	1869.4	1864.7	1860.1	1855.5
5°	1885.2	1883.3	1881.5	1879.6	1872.9	1866.2	1859.4	1852.7	1846.0	1839.3	1832.5
7.5°	1879.6	1875.4	1871.3	1867.1	1858.5	1849.9	1841.4	1832.8	1824.2	1815.6	1807.1
10°	1868.5	1861.7	1855.0	1848.3	1838.3	1828.4	1818.4	1808.4	1798.5	1788.5	1778.5
12.5°	1849.0	1839.0	1829.1	1819.1	1808.7	1798.2	1787.8	1777.4	1766.9	1756.5	1746.1
15°	1828.8	1815.9	1802.9	1789.9	1778.5	1767.2	1755.8	1744.5	1733.1	1721.8	1710.4
17.5°	1803.8	1788.0	1772.3	1756.5	1744.7	1732.9	1721.0	1709.2	1697.4	1685.6	1673.7
20°	1771.8	1752.8	1733.8	1714.8	1703.7	1692.6	1681.4	1670.3	1659.2	1648.1	1636.9
22.5°	1736.3	1713.9	1691.4	1668.9	1658.5	1648.0	1637.6	1627.2	1616.7	1606.3	1595.9
25°	1696.7	1670.7	1644.8	1618.8	1609.8	1600.7	1591.7	1582.7	1573.6	1564.6	1555.6
27.5°	1652.9	1622.8	1592.6	1562.5	1555.8	1549.1	1542.3	1535.6	1528.9	1522.2	1515.4
30°	1609.1	1574.8	1540.5	1506.2	1502.3	1498.3	1494.4	1490.4	1486.5	1482.5	1478.6
32.5°	1559.7	1521.0	1482.3	1443.6	1443.6	1443.6	1443.6	1443.6	1443.6	1443.6	1443.6
35°	1509.6	1465.4	1421.1	1376.8	1381.2	1385.6	1390.0	1394.4	1398.9	1403.3	1407.7
37.5°	1463.7	1414.6	1365.4	1316.3	1324.6	1333.0	1341.3	1349.7	1358.0	1366.4	1374.7
40°	1412.3	1357.4	1302.4	1247.5	1260.0	1272.5	1285.0	1297.5	1310.1	1322.6	1335.1
42.5°	1358.1	1297.6	1237.1	1176.6	1193.5	1210.4	1227.4	1244.3	1261.2	1278.1	1295.1
45°	1301.8	1235.7	1169.7	1103.6	1124.9	1146.2	1167.6	1188.9	1210.2	1231.5	1252.9
47.5°	1245.4	1173.8	1102.1	1030.5	1056.2	1082.0	1107.7	1133.4	1159.2	1184.9	1210.6
50°	1187.7	1110.9	1034.2	957.5	987.4	1017.3	1047.2	1077.1	1107.0	1136.9	1166.8
52.5°	1126.5	1044.4	962.4	880.3	914.6	948.9	983.2	1017.5	1051.9	1086.2	1120.5
55°	1067.4	980.7	894.0	807.3	845.5	883.8	922.0	960.3	998.5	1036.8	1075.0
57.5°	1005.5	914.4	823.3	732.2	774.6	817.0	859.5	901.9	944.3	986.7	1029.2
60°	944.3	848.6	752.8	657.1	703.0	748.9	794.8	840.7	886.6	932.5	978.4
62.5°	883.1	783.4	683.8	584.1	633.5	682.9	732.2	781.6	831.0	880.4	929.7
65°	819.1	715.8	612.4	509.0	561.8	614.7	667.5	720.4	773.2	826.1	878.9
67.5°	754.5	647.6	540.8	433.9	490.0	546.1	602.2	658.3	714.4	770.5	826.6
70°	693.3	583.9	474.5	365.1	423.5	481.9	540.3	598.7	657.2	715.6	774.0
72.5°	632.8	521.3	409.8	298.3	358.6	418.8	479.1	539.4	599.6	659.9	720.2
75°	572.3	459.4	346.5	233.6	295.5	357.4	419.3	481.2	543.0	604.9	666.8
77.5°	513.2	399.8	286.5	173.1	235.5	297.8	360.2	422.5	484.9	547.2	609.6
80°	459.6	346.1	232.5	118.9	181.7	244.5	307.3	370.1	433.0	495.8	558.6
82.5°	408.9	296.2	183.6	70.9	133.3	195.6	258.0	320.3	382.7	445.0	507.4
85°	365.1	254.5	144.0	33.4	94.8	156.2	217.7	279.1	340.5	401.9	463.4
87.5°	328.9	220.7	112.4	4.2	64.2	124.3	184.3	244.3	304.4	364.4	424.4
90°	310.1	206.8	103.4	0.0	57.0	114.0	171.1	228.1	285.1	342.1	399.2
92.5°	299.7	199.8	99.9	0.0	53.8	107.6	161.3	215.1	268.9	322.7	376.4
95°	287.9	191.9	96.0	0.0	51.0	102.0	153.0	204.0	254.9	305.9	356.9
97.5°	276.1	184.0	92.0	0.0	48.0	96.0	143.9	191.9	239.9	287.9	335.8
100°	263.5	175.7	87.8	0.0	45.2	90.4	135.6	180.8	226.0	271.2	316.4
102.5°	251.0	167.4	83.7	0.0	42.4	84.8	127.3	169.7	212.1	254.5	297.0
105°	237.1	158.1	79.0	0.0	39.4	78.8	118.2	157.6	197.0	236.4	275.8
107.5°	223.2	148.8	74.4	0.0	36.4	72.8	109.2	145.6	181.9	218.3	254.7
110°	209.3	139.5	69.8	0.0	33.6	67.2	100.8	134.4	168.1	201.7	235.3



TEST NUMBER: P201416

CATALOG NUMBER: 8LBLED-LD4-16-ASYMW-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°	194.7	129.8	64.9	0.0	30.6	61.2	91.8	122.4	153.0	183.6	214.2
115°	180.1	120.1	60.0	0.0	27.6	55.2	82.7	110.3	137.9	165.5	193.0
117.5°	162.7	108.5	54.2	0.0	24.6	49.1	73.7	98.3	122.8	147.4	172.0
120°	148.1	98.7	49.4	0.0	21.6	43.1	64.7	86.2	107.8	129.3	150.9
122.5°	133.5	89.0	44.5	0.0	19.0	38.0	57.0	76.0	95.1	114.1	133.1
125°	118.9	79.3	39.6	0.0	16.0	32.0	48.0	64.0	79.9	95.9	111.9
127.5°	105.0	70.0	35.0	0.0	13.0	26.0	38.9	51.9	64.9	77.9	90.8
130°	91.1	60.7	30.4	0.0	10.2	20.4	30.6	40.8	51.0	61.2	71.4
132.5°	77.9	51.9	26.0	0.0	7.6	15.3	22.9	30.6	38.2	45.9	53.5
135°	64.7	43.1	21.6	0.0	5.3	10.7	16.0	21.3	26.7	32.0	37.3
137.5°	52.2	34.8	17.4	0.0	3.5	7.0	10.4	13.9	17.4	20.9	24.3
140°	39.6	26.4	13.2	0.0	1.9	3.7	5.6	7.4	9.3	11.1	13.0
142.5°	26.4	17.6	8.8	0.0	0.9	1.8	2.8	3.7	4.6	5.5	6.5
145°	18.1	12.0	6.0	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6
147.5°	11.8	7.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	8.3	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	4.9	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.1	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201416

CATALOG NUMBER: 8LBLEDD4-16-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3
2.5°	1850.8	1846.2	1844.8	1843.4	1842.0	1840.6	1839.3	1837.9	1836.5	1835.1	1833.7
5°	1825.8	1819.1	1816.5	1814.0	1811.4	1808.9	1806.3	1803.8	1801.2	1798.7	1796.1
7.5°	1798.5	1789.9	1786.9	1783.9	1780.9	1777.9	1774.8	1771.8	1768.8	1765.8	1762.8
10°	1768.6	1758.6	1755.8	1753.0	1750.3	1747.5	1744.7	1741.9	1739.2	1736.4	1733.6
12.5°	1735.6	1725.2	1723.6	1722.0	1720.3	1718.7	1717.1	1715.5	1713.8	1712.2	1710.6
15°	1699.1	1687.7	1688.4	1689.1	1689.8	1690.5	1691.1	1691.8	1692.5	1693.2	1693.9
17.5°	1661.9	1650.1	1655.0	1659.8	1664.7	1669.6	1674.4	1679.3	1684.2	1689.0	1693.9
20°	1625.8	1614.7	1625.1	1635.5	1646.0	1656.4	1666.8	1677.2	1687.7	1698.1	1708.5
22.5°	1585.4	1575.0	1591.5	1607.9	1624.4	1640.8	1657.3	1673.7	1690.2	1706.6	1723.1
25°	1546.5	1537.5	1559.7	1582.0	1604.2	1626.5	1648.7	1671.0	1693.2	1715.5	1737.7
27.5°	1508.7	1502.0	1529.1	1556.2	1583.4	1610.5	1637.6	1664.7	1691.9	1719.0	1746.1
30°	1474.6	1470.7	1502.2	1533.7	1565.3	1596.8	1628.3	1659.8	1691.4	1722.9	1754.4
32.5°	1443.6	1443.6	1478.8	1514.1	1549.3	1584.5	1619.8	1655.0	1690.2	1725.5	1760.7
35°	1412.1	1416.5	1455.0	1493.5	1531.9	1570.4	1608.9	1647.4	1685.8	1724.3	1762.8
37.5°	1383.1	1391.4	1432.9	1474.4	1515.9	1557.4	1598.9	1640.4	1681.9	1723.4	1764.9
40°	1347.6	1360.1	1405.3	1450.5	1495.7	1540.9	1586.1	1631.3	1676.5	1721.7	1766.9
42.5°	1312.0	1328.9	1377.3	1425.8	1474.2	1522.7	1571.1	1619.6	1668.0	1716.5	1764.9
45°	1274.2	1295.5	1347.4	1399.3	1451.3	1503.2	1555.1	1607.0	1659.0	1710.9	1762.8
47.5°	1236.4	1262.1	1317.3	1372.4	1427.6	1482.8	1537.9	1593.1	1648.3	1703.4	1758.6
50°	1196.7	1226.6	1285.2	1343.9	1402.5	1461.2	1519.8	1578.5	1637.1	1695.8	1754.4
52.5°	1154.8	1189.1	1250.8	1312.4	1374.1	1435.7	1497.4	1559.0	1620.7	1682.3	1744.0
55°	1113.3	1151.5	1216.4	1281.3	1346.2	1411.1	1476.0	1540.9	1605.8	1670.7	1735.6
57.5°	1071.6	1114.0	1182.4	1250.8	1319.1	1387.5	1455.9	1524.3	1592.6	1661.0	1729.4
60°	1024.3	1070.2	1142.3	1214.4	1286.5	1358.6	1430.6	1502.7	1574.8	1646.9	1719.0
62.5°	979.1	1028.5	1104.1	1179.6	1255.2	1330.7	1406.3	1481.8	1557.4	1632.9	1708.5
65°	931.8	984.6	1063.4	1142.2	1221.0	1299.8	1378.7	1457.5	1536.3	1615.1	1693.9
67.5°	882.7	938.8	1020.6	1102.4	1184.3	1266.1	1347.9	1429.7	1511.6	1593.4	1675.2
70°	832.4	890.8	974.9	1059.1	1143.2	1227.3	1311.5	1395.6	1479.7	1563.9	1648.0
72.5°	780.4	840.7	925.8	1010.8	1095.9	1181.0	1266.0	1351.1	1436.2	1521.2	1606.3
75°	728.7	790.6	875.4	960.3	1045.1	1130.0	1214.8	1299.7	1384.5	1469.4	1554.2
77.5°	671.9	734.3	818.4	902.6	986.7	1070.9	1155.0	1239.2	1323.3	1407.5	1491.6
80°	621.4	684.2	766.3	848.3	930.4	1012.4	1094.5	1176.5	1258.6	1340.6	1422.7
82.5°	569.7	632.1	711.8	791.6	871.3	951.0	1030.8	1110.5	1190.2	1270.0	1349.7
85°	524.8	586.2	663.4	740.6	817.8	895.0	972.1	1049.3	1126.5	1203.7	1280.9
87.5°	484.5	544.5	619.6	694.7	769.8	844.9	920.0	995.1	1070.2	1145.3	1220.4
90°	456.2	513.2	585.7	658.3	730.8	803.4	875.9	948.5	1021.0	1093.6	1166.1
92.5°	430.2	484.0	555.2	626.3	697.5	768.6	839.8	910.9	982.1	1053.2	1124.4
95°	407.9	458.9	528.2	597.5	666.8	736.1	805.5	874.8	944.1	1013.4	1082.7
97.5°	383.8	431.8	499.7	567.6	635.6	703.5	771.4	839.3	907.3	975.2	1043.1
100°	361.6	406.8	473.1	539.4	605.7	672.0	738.2	804.5	870.8	937.1	1003.4
102.5°	339.4	381.8	446.5	511.1	575.8	640.5	705.1	769.8	834.5	899.1	963.8
105°	315.2	354.6	418.1	481.6	545.1	608.6	672.2	735.7	799.2	862.7	926.2
107.5°	291.1	327.5	389.2	450.8	512.5	574.1	635.8	697.4	759.1	820.7	882.4
110°	268.9	302.5	361.8	421.2	480.5	539.8	599.2	658.5	717.8	777.2	836.5



TEST NUMBER: P201416

CATALOG NUMBER: 8LBLED-LD4-16-ASYMW-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°	244.8	275.4	332.9	390.4	447.8	505.3	562.8	620.3	677.7	735.2	792.7
115°	220.6	248.2	303.6	359.0	414.4	469.8	525.2	580.6	636.0	691.4	746.8
117.5°	196.5	221.1	274.4	327.7	381.0	434.3	487.7	541.0	594.3	647.6	700.9
120°	172.4	194.0	245.0	296.0	347.0	398.0	449.0	500.0	551.0	602.0	653.0
122.5°	152.1	171.1	219.3	267.5	315.7	363.9	412.2	460.4	508.6	556.8	605.0
125°	127.9	143.9	189.6	235.2	280.9	326.6	372.2	417.9	463.6	509.2	554.9
127.5°	103.8	116.8	158.8	200.7	242.7	284.6	326.6	368.5	410.5	452.4	494.4
130°	81.6	91.8	130.0	168.3	206.5	244.8	283.0	321.3	359.5	397.8	436.0
132.5°	61.2	68.8	102.9	137.0	171.0	205.1	239.2	273.3	307.3	341.4	375.5
135°	42.7	48.0	78.4	108.7	139.1	169.5	199.8	230.2	260.6	290.9	321.3
137.5°	27.8	31.3	57.7	84.1	110.6	137.0	163.4	189.8	216.3	242.7	269.1
140°	14.8	16.7	39.6	62.6	85.5	108.5	131.4	154.4	177.3	200.3	223.2
142.5°	7.4	8.3	27.3	46.3	65.3	84.3	103.4	122.4	141.4	160.4	179.4
145°	1.9	2.1	17.4	32.7	48.0	63.3	78.6	93.9	109.2	124.5	139.8
147.5°	0.0	0.0	11.6	23.2	34.8	46.4	57.9	69.5	81.1	92.7	104.3
150°	0.0	0.0	8.1	16.2	24.3	32.4	40.6	48.7	56.8	64.9	73.0
152.5°	0.0	0.0	4.9	9.7	14.6	19.5	24.3	29.2	34.1	38.9	43.8
155°	0.0	0.0	2.5	5.1	7.6	10.2	12.7	15.3	17.8	20.4	22.9
157.5°	0.0	0.0	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3
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: P201416

CATALOG NUMBER: 8LBLELD4-16-ASYMW-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°	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3
2.5°	1831.6	1829.5	1827.4	1825.3	1823.3	1821.2	1819.1	1817.0	1814.9	1812.8	1810.7
5°	1793.8	1791.5	1789.2	1786.9	1784.5	1782.2	1779.9	1777.6	1775.3	1773.9	1772.5
7.5°	1760.7	1758.6	1756.5	1754.4	1752.4	1750.3	1748.2	1746.1	1744.0	1743.3	1742.6
10°	1733.4	1733.1	1732.9	1732.7	1732.4	1732.2	1732.0	1731.7	1731.5	1731.0	1730.6
12.5°	1712.7	1714.8	1716.9	1719.0	1721.0	1723.1	1725.2	1727.3	1729.4	1730.8	1732.2
15°	1700.6	1707.3	1714.1	1720.8	1727.5	1734.2	1741.0	1747.7	1754.4	1758.1	1761.8
17.5°	1705.0	1716.2	1727.3	1738.4	1749.6	1760.7	1771.8	1783.0	1794.1	1798.5	1802.9
20°	1721.9	1735.4	1748.8	1762.3	1775.7	1789.2	1802.6	1816.1	1829.5	1834.8	1840.2
22.5°	1738.9	1754.6	1770.4	1786.2	1801.9	1817.7	1833.5	1849.2	1865.0	1870.8	1876.6
25°	1755.3	1772.9	1790.6	1808.2	1825.8	1843.4	1861.1	1878.7	1896.3	1903.0	1909.7
27.5°	1766.3	1786.4	1806.6	1826.8	1846.9	1867.1	1887.3	1907.4	1927.6	1934.8	1942.0
30°	1776.7	1798.9	1821.2	1843.4	1865.7	1887.9	1910.2	1932.4	1954.7	1963.3	1971.9
32.5°	1785.3	1809.8	1834.4	1859.0	1883.5	1908.1	1932.7	1957.2	1981.8	1991.5	2001.3
35°	1790.1	1817.5	1844.8	1872.2	1899.5	1926.9	1954.2	1981.6	2008.9	2020.0	2031.2
37.5°	1795.0	1825.1	1855.3	1885.4	1915.5	1945.6	1975.8	2005.9	2036.0	2048.8	2061.5
40°	1799.8	1832.7	1865.7	1898.6	1931.5	1964.4	1997.4	2030.3	2063.2	2077.3	2091.5
42.5°	1800.8	1836.7	1872.7	1908.6	1944.5	1980.4	2016.4	2052.3	2088.2	2104.0	2119.7
45°	1802.2	1841.6	1881.0	1920.4	1959.8	1999.2	2038.6	2078.0	2117.4	2134.6	2151.7
47.5°	1801.9	1845.3	1888.6	1932.0	1975.3	2018.7	2062.0	2105.4	2148.7	2167.5	2186.3
50°	1801.5	1848.5	1895.6	1942.6	1989.7	2036.7	2083.8	2130.8	2177.9	2198.8	2219.6
52.5°	1795.2	1846.4	1897.7	1948.9	2000.1	2051.3	2102.6	2153.8	2205.0	2227.7	2250.4
55°	1791.2	1846.9	1902.5	1958.1	2013.8	2069.4	2125.0	2180.7	2236.3	2260.2	2284.1
57.5°	1788.5	1847.6	1906.7	1965.8	2024.9	2084.0	2143.1	2202.2	2261.3	2286.8	2312.3
60°	1781.6	1844.2	1906.7	1969.3	2031.9	2094.5	2157.0	2219.6	2282.2	2308.4	2334.6
62.5°	1773.9	1839.2	1904.6	1970.0	2035.3	2100.7	2166.1	2231.4	2296.8	2323.2	2349.6
65°	1761.6	1829.3	1897.0	1964.7	2032.3	2100.0	2167.7	2235.4	2303.1	2329.8	2356.4
67.5°	1744.0	1812.9	1881.7	1950.5	2019.4	2088.2	2157.0	2225.9	2294.7	2321.4	2348.0
70°	1717.5	1787.1	1856.6	1926.2	1995.7	2065.3	2134.8	2204.4	2273.9	2300.1	2326.3
72.5°	1675.8	1745.4	1814.9	1884.4	1954.0	2023.5	2093.0	2162.6	2232.1	2257.4	2282.6
75°	1622.6	1691.0	1759.3	1827.7	1896.1	1964.5	2032.8	2101.2	2169.6	2193.9	2218.3
77.5°	1557.9	1624.2	1690.5	1756.8	1823.0	1889.3	1955.6	2021.9	2088.2	2112.1	2136.0
80°	1486.9	1551.1	1615.3	1679.5	1743.8	1808.0	1872.2	1936.4	2000.6	2023.8	2047.0
82.5°	1411.6	1473.5	1535.4	1597.3	1659.1	1721.0	1782.9	1844.8	1906.7	1929.4	1952.1
85°	1341.6	1402.3	1463.1	1523.8	1584.5	1645.2	1706.0	1766.7	1827.4	1849.4	1871.4
87.5°	1277.6	1334.9	1392.1	1449.4	1506.6	1563.9	1621.1	1678.4	1735.6	1757.2	1778.7
90°	1222.2	1278.3	1334.4	1390.5	1446.6	1502.7	1558.8	1614.9	1671.0	1691.4	1711.8
92.5°	1178.6	1232.9	1287.1	1341.4	1395.6	1449.9	1504.1	1558.4	1612.6	1632.3	1652.0
95°	1134.9	1187.0	1239.2	1291.3	1343.5	1395.6	1447.8	1499.9	1552.1	1570.9	1589.6
97.5°	1093.6	1144.1	1194.7	1245.2	1295.7	1346.2	1396.8	1447.3	1497.8	1515.7	1533.5
100°	1052.8	1102.2	1151.5	1200.9	1250.3	1299.7	1349.0	1398.4	1447.8	1465.2	1482.6
102.5°	1012.0	1060.2	1108.4	1156.6	1204.9	1253.1	1301.3	1349.5	1397.7	1415.1	1432.5
105°	972.8	1019.4	1066.0	1112.6	1159.1	1205.7	1252.3	1298.9	1345.5	1362.0	1378.4
107.5°	927.8	973.3	1018.7	1064.1	1109.6	1155.0	1200.4	1245.9	1291.3	1307.3	1323.3
110°	880.8	925.1	969.3	1013.6	1057.9	1102.2	1146.4	1190.7	1235.0	1251.2	1267.4



TEST NUMBER: P201416

CATALOG NUMBER: 8LBLED-LD4-16-ASYMW-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°	835.4	878.0	920.7	963.3	1006.0	1048.6	1091.3	1133.9	1176.6	1191.9	1207.2
115°	788.1	829.3	870.6	911.9	953.1	994.4	1035.7	1076.9	1118.2	1132.8	1147.4
117.5°	740.5	780.2	819.8	859.5	899.1	938.8	978.4	1018.1	1057.7	1072.1	1086.4
120°	691.2	729.5	767.7	806.0	844.2	882.5	920.7	959.0	997.2	1010.9	1024.5
122.5°	641.6	678.2	714.9	751.5	788.1	824.7	861.4	898.0	934.6	948.0	961.5
125°	590.1	625.4	660.6	695.8	731.1	766.3	801.5	836.8	872.0	885.0	898.0
127.5°	529.2	563.9	598.7	633.5	668.2	703.0	737.8	772.5	807.3	819.8	832.3
130°	469.8	503.7	537.5	571.4	605.2	639.1	672.9	706.8	740.6	752.6	764.7
132.5°	408.4	441.3	474.2	507.1	540.1	573.0	605.9	638.8	671.7	683.3	694.9
135°	353.1	384.8	416.6	448.3	480.1	511.8	543.6	575.3	607.1	617.8	628.4
137.5°	298.8	328.4	358.1	387.8	417.4	447.1	476.8	506.4	536.1	546.8	557.4
140°	249.4	275.6	301.8	328.0	354.1	380.3	406.5	432.7	458.9	471.0	483.0
142.5°	202.6	225.8	248.9	272.1	295.3	318.5	341.6	364.8	388.0	399.8	411.6
145°	159.7	179.7	199.6	219.5	239.5	259.4	279.3	299.3	319.2	331.3	343.3
147.5°	121.2	138.1	155.1	172.0	188.9	205.8	222.8	239.7	256.6	268.7	280.7
150°	87.1	101.3	115.4	129.6	143.7	157.9	172.0	186.2	200.3	211.4	222.5
152.5°	55.4	67.0	78.6	90.2	101.7	113.3	124.9	136.5	148.1	158.3	168.5
155°	31.5	40.1	48.6	57.2	65.8	74.4	82.9	91.5	100.1	109.1	118.2
157.5°	12.1	17.9	23.7	29.5	35.2	41.0	46.8	52.6	58.4	66.1	73.7
160°	3.0	6.0	9.0	12.0	15.1	18.1	21.1	24.1	27.1	32.7	38.2
162.5°	0.5	0.9	1.4	1.9	2.3	2.8	3.3	3.7	4.2	7.7	11.2
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201416

CATALOG NUMBER: 8LBLELD4-16-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3
2.5°	1808.6	1806.5	1804.5	1802.4	1800.3	1798.2	1796.1	1798.0	1799.8	1801.7	1803.5
5°	1771.1	1769.7	1768.4	1767.0	1765.6	1764.2	1762.8	1764.0	1765.1	1766.3	1767.4
7.5°	1741.9	1741.2	1740.5	1739.8	1739.1	1738.4	1737.7	1738.4	1739.1	1739.8	1740.5
10°	1730.1	1729.6	1729.2	1728.7	1728.2	1727.8	1727.3	1727.1	1726.8	1726.6	1726.4
12.5°	1733.6	1735.0	1736.3	1737.7	1739.1	1740.5	1741.9	1739.6	1737.3	1734.9	1732.6
15°	1765.5	1769.2	1773.0	1776.7	1780.4	1784.1	1787.8	1783.9	1779.9	1776.0	1772.0
17.5°	1807.3	1811.7	1816.1	1820.5	1824.9	1829.3	1833.7	1829.5	1825.3	1821.2	1817.0
20°	1845.5	1850.8	1856.2	1861.5	1866.8	1872.2	1877.5	1871.7	1865.9	1860.1	1854.3
22.5°	1882.4	1888.2	1893.9	1899.7	1905.5	1911.3	1917.1	1910.4	1903.7	1896.9	1890.2
25°	1916.5	1923.2	1929.9	1936.6	1943.4	1950.1	1956.8	1949.4	1942.0	1934.5	1927.1
27.5°	1949.1	1956.3	1963.5	1970.7	1977.8	1985.0	1992.2	1984.3	1976.4	1968.6	1960.7
30°	1980.4	1989.0	1997.6	2006.2	2014.7	2023.3	2031.9	2022.9	2013.8	2004.8	1995.7
32.5°	2011.0	2020.7	2030.5	2040.2	2049.9	2059.7	2069.4	2059.2	2049.0	2038.8	2028.6
35°	2042.3	2053.4	2064.6	2075.7	2086.8	2098.0	2109.1	2097.7	2086.4	2075.0	2063.6
37.5°	2074.3	2087.0	2099.8	2112.5	2125.3	2138.0	2150.8	2138.3	2125.8	2113.2	2100.7
40°	2105.6	2119.7	2133.9	2148.0	2162.1	2176.3	2190.4	2176.7	2163.0	2149.4	2135.7
42.5°	2135.5	2151.3	2167.0	2182.8	2198.6	2214.3	2230.1	2215.3	2200.4	2185.6	2170.7
45°	2168.9	2186.0	2203.2	2220.3	2237.5	2254.6	2271.8	2255.8	2239.8	2223.8	2207.8
47.5°	2205.0	2223.8	2242.6	2261.4	2280.1	2298.9	2317.7	2300.3	2282.9	2265.5	2248.1
50°	2240.5	2261.4	2282.2	2303.1	2324.0	2344.8	2365.7	2346.7	2327.7	2308.7	2289.7
52.5°	2273.2	2295.9	2318.6	2341.3	2364.1	2386.8	2409.5	2389.1	2368.7	2348.3	2327.9
55°	2307.9	2331.8	2355.7	2379.6	2403.4	2427.3	2451.2	2429.6	2408.1	2386.5	2365.0
57.5°	2337.8	2363.3	2388.8	2414.3	2439.8	2465.3	2490.8	2468.1	2445.4	2422.7	2400.0
60°	2360.8	2387.0	2413.1	2439.3	2465.5	2491.7	2517.9	2495.0	2472.0	2449.1	2426.1
62.5°	2376.1	2402.5	2428.9	2455.3	2481.8	2508.2	2534.6	2511.4	2488.2	2465.1	2441.9
65°	2383.1	2409.7	2436.4	2463.0	2489.7	2516.3	2543.0	2519.4	2495.7	2472.1	2448.4
67.5°	2374.7	2401.3	2428.0	2454.6	2481.3	2507.9	2534.6	2511.4	2488.2	2465.1	2441.9
70°	2352.5	2378.7	2404.8	2431.0	2457.2	2483.4	2509.6	2486.2	2462.8	2439.4	2416.0
72.5°	2307.9	2333.2	2358.4	2383.7	2409.0	2434.2	2459.5	2436.8	2414.1	2391.4	2368.7
75°	2242.6	2266.9	2291.3	2315.6	2339.9	2364.3	2388.6	2366.6	2344.6	2322.5	2300.5
77.5°	2159.8	2183.7	2207.6	2231.5	2255.3	2279.2	2303.1	2281.3	2259.5	2237.7	2215.9
80°	2070.1	2093.3	2116.5	2139.7	2162.8	2186.0	2209.2	2187.9	2166.6	2145.2	2123.9
82.5°	1974.8	1997.5	2020.3	2043.0	2065.7	2088.4	2111.1	2091.4	2071.7	2052.0	2032.3
85°	1893.5	1915.5	1937.5	1959.5	1981.6	2003.6	2025.6	2005.2	1984.8	1964.4	1944.0
87.5°	1800.3	1821.9	1843.4	1865.0	1886.6	1908.1	1929.7	1910.2	1890.7	1871.3	1851.8
90°	1732.2	1752.6	1773.0	1793.4	1813.8	1834.2	1854.6	1835.6	1816.6	1797.6	1778.6
92.5°	1671.7	1691.4	1711.1	1730.8	1750.5	1770.2	1789.9	1771.4	1752.8	1734.3	1715.7
95°	1608.4	1627.2	1645.9	1664.7	1683.5	1702.2	1721.0	1703.6	1686.2	1668.9	1651.5
97.5°	1551.4	1569.2	1587.1	1604.9	1622.8	1640.6	1658.5	1642.0	1625.6	1609.1	1592.6
100°	1499.9	1517.3	1534.7	1552.1	1569.4	1586.8	1604.2	1587.3	1570.4	1553.4	1536.5
102.5°	1449.9	1467.3	1484.6	1502.0	1519.4	1536.8	1554.2	1537.0	1519.9	1502.7	1485.6
105°	1394.9	1411.4	1427.8	1444.3	1460.8	1477.2	1493.7	1477.5	1461.2	1445.0	1428.8
107.5°	1339.3	1355.3	1371.2	1387.2	1403.2	1419.2	1435.2	1419.4	1403.7	1387.9	1372.2
110°	1283.7	1299.9	1316.1	1332.3	1348.6	1364.8	1381.0	1365.0	1349.0	1333.0	1317.0



TEST NUMBER: P201416

CATALOG NUMBER: 8LBLED-LD4-16-ASYMW-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°	1222.5	1237.8	1253.1	1268.4	1283.7	1299.0	1314.3	1299.2	1284.2	1269.1	1254.0
115°	1162.0	1176.6	1191.2	1205.8	1220.4	1235.0	1249.6	1235.2	1220.8	1206.5	1192.1
117.5°	1100.8	1115.2	1129.5	1143.9	1158.3	1172.6	1187.0	1173.1	1159.2	1145.3	1131.4
120°	1038.2	1051.9	1065.5	1079.2	1092.9	1106.5	1120.2	1107.0	1093.8	1080.6	1067.4
122.5°	974.9	988.4	1001.8	1015.3	1028.7	1042.2	1055.6	1043.1	1030.6	1018.0	1005.5
125°	910.9	923.9	936.9	949.9	962.8	975.8	988.8	976.7	964.7	952.6	940.6
127.5°	844.9	857.4	869.9	882.4	895.0	907.5	920.0	908.6	897.3	885.9	874.6
130°	776.7	788.8	800.8	812.9	824.9	837.0	849.0	838.1	827.2	816.3	805.4
132.5°	706.5	718.1	729.6	741.2	752.8	764.4	776.0	765.8	755.6	745.4	735.2
135°	639.1	649.7	660.4	671.0	681.7	692.3	703.0	693.7	684.5	675.2	665.9
137.5°	568.1	578.8	589.4	600.1	610.8	621.4	632.1	623.5	614.9	606.4	597.8
140°	495.1	507.1	519.2	531.2	543.3	555.3	567.4	558.8	550.2	541.7	533.1
142.5°	423.5	435.3	447.1	458.9	470.8	482.6	494.4	487.2	480.0	472.8	465.6
145°	355.4	367.4	379.5	391.5	403.6	415.6	427.7	421.2	414.7	408.2	401.7
147.5°	292.8	304.8	316.9	328.9	341.0	353.0	365.1	359.1	353.0	347.0	341.0
150°	233.7	244.8	255.9	267.0	278.2	289.3	300.4	295.3	290.2	285.1	280.0
152.5°	178.7	188.9	199.1	209.3	219.5	229.7	239.9	235.5	231.1	226.7	222.3
155°	127.2	136.3	145.3	154.4	163.4	172.5	181.5	178.3	175.0	171.8	168.5
157.5°	81.4	89.0	96.7	104.3	112.0	119.6	127.3	124.7	122.2	119.6	117.1
160°	43.8	49.4	54.9	60.5	66.1	71.6	77.2	75.3	73.5	71.6	69.8
162.5°	14.6	18.1	21.6	25.1	28.5	32.0	35.5	34.6	33.6	32.7	31.8
165°	2.8	3.7	4.6	5.5	6.5	7.4	8.3	8.3	8.3	8.3	8.3
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



TEST NUMBER: P201416

CATALOG NUMBER: 8LBLEDD4-16-ASYMW-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°	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3
2.5°	1805.4	1807.2	1809.1	1810.9	1812.8	1816.0	1819.3	1822.5	1825.8	1829.0	1832.3
5°	1768.6	1769.7	1770.9	1772.0	1773.2	1776.9	1780.6	1784.3	1788.0	1791.8	1795.5
7.5°	1741.2	1741.9	1742.6	1743.3	1744.0	1747.2	1750.5	1753.7	1757.0	1760.2	1763.5
10°	1726.1	1725.9	1725.7	1725.4	1725.2	1727.5	1729.8	1732.2	1734.5	1736.8	1739.1
12.5°	1730.3	1728.0	1725.6	1723.3	1721.0	1721.5	1721.9	1722.4	1722.9	1723.3	1723.8
15°	1768.1	1764.1	1760.2	1756.2	1752.3	1747.7	1743.0	1738.4	1733.8	1729.1	1724.5
17.5°	1812.8	1808.6	1804.5	1800.3	1796.1	1786.4	1776.6	1766.9	1757.2	1747.4	1737.7
20°	1848.6	1842.8	1837.0	1831.2	1825.4	1814.0	1802.7	1791.3	1779.9	1768.6	1757.2
22.5°	1883.5	1876.8	1870.0	1863.3	1856.6	1843.2	1829.7	1816.3	1802.8	1789.4	1775.9
25°	1919.7	1912.3	1904.8	1897.4	1890.0	1874.2	1858.5	1842.7	1827.0	1811.2	1795.5
27.5°	1952.8	1944.9	1937.1	1929.2	1921.3	1903.2	1885.1	1867.1	1849.0	1830.9	1812.8
30°	1986.7	1977.6	1968.6	1959.5	1950.5	1930.1	1909.7	1889.3	1868.9	1848.5	1828.1
32.5°	2018.4	2008.2	1998.0	1987.8	1977.6	1954.4	1931.2	1908.1	1884.9	1861.7	1838.5
35°	2052.3	2040.9	2029.5	2018.2	2006.8	1980.8	1954.9	1928.9	1903.0	1877.0	1851.1
37.5°	2088.2	2075.7	2063.1	2050.6	2038.1	2009.4	1980.6	1951.9	1923.2	1894.4	1865.7
40°	2122.0	2108.3	2094.7	2081.0	2067.3	2035.8	2004.3	1972.7	1941.2	1909.7	1878.2
42.5°	2155.9	2141.0	2126.2	2111.3	2096.5	2061.7	2027.0	1992.2	1957.4	1922.7	1887.9
45°	2191.8	2175.8	2159.8	2143.8	2127.8	2089.6	2051.3	2013.1	1974.8	1936.6	1898.3
47.5°	2230.8	2213.4	2196.0	2178.6	2161.2	2119.0	2076.8	2034.6	1992.4	1950.3	1908.1
50°	2270.6	2251.6	2232.6	2213.6	2194.6	2148.2	2101.9	2055.5	2009.2	1962.8	1916.5
52.5°	2307.5	2287.1	2266.7	2246.3	2225.9	2175.4	2124.8	2074.3	2023.8	1973.2	1922.7
55°	2343.4	2321.9	2300.3	2278.8	2257.2	2202.5	2147.8	2093.1	2038.4	1983.7	1929.0
57.5°	2377.2	2354.5	2331.8	2309.1	2286.4	2228.0	2169.6	2111.2	2052.8	1994.3	1935.9
60°	2403.2	2380.2	2357.3	2334.3	2311.4	2249.3	2187.2	2125.0	2062.9	2000.8	1938.7
62.5°	2418.7	2395.5	2372.4	2349.2	2326.0	2261.1	2196.2	2131.3	2066.4	2001.5	1936.6
65°	2424.8	2401.1	2377.5	2353.8	2330.2	2263.2	2196.2	2129.2	2062.2	1995.3	1928.3
67.5°	2418.7	2395.5	2372.4	2349.2	2326.0	2257.4	2188.8	2120.2	2051.6	1982.9	1914.3
70°	2392.5	2369.1	2345.7	2322.3	2298.9	2230.1	2161.2	2092.4	2023.5	1954.7	1885.8
72.5°	2345.9	2323.2	2300.5	2277.8	2255.1	2186.7	2118.3	2050.0	1981.6	1913.2	1844.8
75°	2278.5	2256.5	2234.4	2212.4	2190.4	2123.2	2056.0	1988.7	1921.5	1854.3	1787.1
77.5°	2194.2	2172.4	2150.6	2128.8	2107.0	2041.6	1976.3	1910.9	1845.5	1780.2	1714.8
80°	2102.6	2081.3	2059.9	2038.6	2017.3	1954.0	1890.7	1827.5	1764.2	1700.9	1637.6
82.5°	2012.6	1992.9	1973.2	1953.5	1933.8	1871.5	1809.1	1746.8	1684.4	1622.1	1559.7
85°	1923.6	1903.2	1882.8	1862.4	1842.0	1782.0	1721.9	1661.9	1601.9	1541.8	1481.8
87.5°	1832.3	1812.8	1793.4	1773.9	1754.4	1696.9	1639.4	1582.0	1524.5	1467.0	1409.5
90°	1759.5	1740.5	1721.5	1702.5	1683.5	1628.6	1573.6	1518.7	1463.8	1408.8	1353.9
92.5°	1697.2	1678.6	1660.1	1641.5	1623.0	1570.2	1517.3	1464.5	1411.6	1358.8	1305.9
95°	1634.1	1616.7	1599.4	1582.0	1564.6	1513.6	1462.6	1411.6	1360.6	1309.6	1258.6
97.5°	1576.2	1559.7	1543.2	1526.8	1510.3	1460.9	1411.6	1362.2	1312.8	1263.5	1214.1
100°	1519.6	1502.7	1485.7	1468.8	1451.9	1404.4	1356.9	1309.4	1261.9	1214.3	1166.8
102.5°	1468.4	1451.3	1434.1	1417.0	1399.8	1353.4	1307.1	1260.7	1214.4	1168.0	1121.7
105°	1412.5	1396.3	1380.1	1363.8	1347.6	1302.2	1256.8	1211.3	1165.9	1120.5	1075.1
107.5°	1356.4	1340.7	1324.9	1309.2	1293.4	1249.6	1205.8	1162.0	1118.2	1074.3	1030.5
110°	1301.1	1285.1	1269.1	1253.1	1237.1	1194.9	1152.7	1110.5	1068.3	1026.2	984.0



TEST NUMBER: P201416

CATALOG NUMBER: 8LBLED-LD4-16-ASYMW-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°	1239.0	1223.9	1208.8	1193.8	1178.7	1138.1	1097.6	1057.0	1016.4	975.9	935.3
115°	1177.7	1163.3	1149.0	1134.6	1120.2	1081.3	1042.3	1003.4	964.5	925.5	886.6
117.5°	1117.4	1103.5	1089.6	1075.7	1061.8	1024.3	986.7	949.2	911.6	874.1	836.5
120°	1054.1	1040.9	1027.7	1014.5	1001.3	965.1	929.0	892.8	856.7	820.5	784.4
122.5°	993.0	980.5	967.9	955.4	942.9	907.7	872.4	837.2	802.0	766.7	731.5
125°	928.5	916.5	904.4	892.4	880.3	846.2	812.2	778.1	744.0	710.0	675.9
127.5°	863.2	851.9	840.5	829.2	817.8	785.3	752.9	720.4	688.0	655.5	623.1
130°	794.6	783.7	772.8	761.9	751.0	720.2	689.3	658.5	627.7	596.8	566.0
132.5°	725.0	714.8	704.6	694.4	684.2	655.5	626.7	598.0	569.3	540.5	511.8
135°	656.7	647.4	638.1	628.9	619.6	592.9	566.3	539.6	513.0	486.3	459.7
137.5°	589.2	580.6	572.1	563.5	554.9	530.3	505.8	481.2	456.6	432.1	407.5
140°	524.5	515.9	507.4	498.8	490.2	468.2	446.2	424.2	402.2	380.1	358.1
142.5°	458.5	451.3	444.1	436.9	429.7	409.5	389.4	369.2	349.0	328.9	308.7
145°	395.2	388.7	382.2	375.7	369.2	351.1	333.0	315.0	296.9	278.8	260.7
147.5°	334.9	328.9	322.9	316.8	310.8	294.6	278.4	262.1	245.9	229.7	213.5
150°	274.9	269.8	264.7	259.6	254.5	240.4	226.2	212.1	198.0	183.8	169.7
152.5°	217.9	213.5	209.1	204.7	200.3	188.0	175.7	163.4	151.1	138.9	126.6
155°	165.3	162.0	158.8	155.5	152.3	141.9	131.4	121.0	110.6	100.1	89.7
157.5°	114.5	112.0	109.4	106.9	104.3	96.2	88.1	80.0	71.9	63.7	55.6
160°	67.9	66.1	64.2	62.4	60.5	55.6	50.8	45.9	41.0	36.2	31.3
162.5°	30.8	29.9	29.0	28.0	27.1	24.8	22.5	20.2	17.9	15.5	13.2
165°	8.3	8.3	8.3	8.3	8.3	7.6	6.9	6.2	5.5	4.9	4.2
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: P201416

CATALOG NUMBER: 8LBLEDD4-16-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3
2.5°	1835.5	1838.8	1842.0	1842.9	1843.9	1844.8	1845.7	1846.7	1847.6	1848.5	1849.5
5°	1799.2	1802.9	1806.6	1808.7	1810.8	1812.9	1815.0	1817.0	1819.1	1821.2	1823.3
7.5°	1766.7	1770.0	1773.2	1775.5	1777.8	1780.2	1782.5	1784.8	1787.1	1789.5	1791.8
10°	1741.5	1743.8	1746.1	1747.7	1749.3	1751.0	1752.6	1754.2	1755.8	1757.5	1759.1
12.5°	1724.3	1724.7	1725.2	1725.4	1725.7	1725.9	1726.1	1726.4	1726.6	1726.8	1727.1
15°	1719.9	1715.2	1710.6	1708.3	1706.0	1703.7	1701.4	1699.0	1696.7	1694.4	1692.1
17.5°	1728.0	1718.2	1708.5	1702.5	1696.5	1690.4	1684.4	1678.4	1672.4	1666.3	1660.3
20°	1745.8	1734.5	1723.1	1711.3	1699.5	1687.6	1675.8	1664.0	1652.2	1640.3	1628.5
22.5°	1762.5	1749.0	1735.6	1718.2	1700.8	1683.5	1666.1	1648.7	1631.3	1614.0	1596.6
25°	1779.7	1764.0	1748.2	1725.0	1701.8	1678.7	1655.5	1632.3	1609.1	1586.0	1562.8
27.5°	1794.8	1776.7	1758.6	1730.1	1701.6	1673.1	1644.6	1616.0	1587.5	1559.0	1530.5
30°	1807.7	1787.3	1766.9	1734.0	1701.1	1668.2	1635.3	1602.3	1569.4	1536.5	1503.6
32.5°	1815.4	1792.2	1769.0	1733.1	1697.2	1661.2	1625.3	1589.4	1553.5	1517.5	1481.6
35°	1825.1	1799.2	1773.2	1734.3	1695.3	1656.4	1617.4	1578.5	1539.5	1500.6	1461.6
37.5°	1837.0	1808.2	1779.5	1736.8	1694.2	1651.5	1608.9	1566.2	1523.6	1480.9	1438.3
40°	1846.6	1815.1	1783.6	1737.7	1691.8	1645.9	1600.0	1554.2	1508.3	1462.4	1416.5
42.5°	1853.1	1818.4	1783.6	1734.5	1685.3	1636.2	1587.1	1537.9	1488.8	1439.7	1390.5
45°	1860.1	1821.8	1783.6	1731.0	1678.4	1625.8	1573.2	1520.5	1467.9	1415.3	1362.7
47.5°	1865.9	1823.7	1781.5	1725.6	1669.8	1613.9	1558.1	1502.2	1446.4	1390.5	1334.7
50°	1870.1	1823.8	1777.4	1718.1	1658.7	1599.4	1540.0	1480.7	1421.3	1362.0	1302.6
52.5°	1872.2	1821.6	1771.1	1708.5	1645.9	1583.4	1520.8	1458.2	1395.6	1333.1	1270.5
55°	1874.3	1819.6	1764.9	1699.1	1633.2	1567.4	1501.6	1435.7	1369.9	1304.1	1238.2
57.5°	1877.5	1819.1	1760.7	1691.2	1621.6	1552.1	1482.5	1413.0	1343.4	1273.9	1204.3
60°	1876.5	1814.4	1752.3	1679.3	1606.3	1533.3	1460.3	1387.2	1314.2	1241.2	1168.2
62.5°	1871.7	1806.8	1741.9	1665.6	1589.4	1513.1	1436.9	1360.6	1284.4	1208.1	1131.9
65°	1861.3	1794.3	1727.3	1647.3	1567.4	1487.4	1407.4	1327.5	1247.5	1167.5	1087.6
67.5°	1845.7	1777.1	1708.5	1625.8	1543.0	1460.3	1377.5	1294.8	1212.0	1129.3	1046.5
70°	1817.0	1748.1	1679.3	1594.7	1510.1	1425.5	1340.9	1256.3	1171.7	1087.1	1002.5
72.5°	1776.5	1708.1	1639.7	1553.9	1468.2	1382.4	1296.6	1210.9	1125.1	1039.3	953.6
75°	1719.8	1652.6	1585.4	1499.6	1413.9	1328.1	1242.4	1156.6	1070.9	985.1	899.4
77.5°	1649.4	1584.1	1518.7	1434.6	1350.4	1266.3	1182.1	1098.0	1013.8	929.7	845.5
80°	1574.4	1511.1	1447.8	1365.7	1283.7	1201.6	1119.6	1037.5	955.5	873.4	791.4
82.5°	1497.4	1435.0	1372.7	1293.2	1213.7	1134.2	1054.7	975.1	895.6	816.1	736.6
85°	1421.8	1361.7	1301.7	1224.7	1147.8	1070.8	993.9	916.9	840.0	763.0	686.1
87.5°	1352.1	1294.6	1237.1	1162.7	1088.3	1013.9	939.5	865.0	790.6	716.2	641.8
90°	1299.0	1244.0	1189.1	1116.8	1044.5	972.1	899.8	827.5	755.2	682.8	610.5
92.5°	1253.1	1200.2	1147.4	1077.2	1006.9	936.7	866.5	796.2	726.0	655.8	585.5
95°	1207.6	1156.6	1105.6	1036.8	967.9	899.1	830.3	761.4	692.6	623.8	554.9
97.5°	1164.7	1115.4	1066.0	998.8	931.6	864.3	797.1	729.9	662.7	595.4	528.2
100°	1119.3	1071.8	1024.3	958.7	893.1	827.5	761.9	696.3	630.7	565.1	499.5
102.5°	1075.3	1029.0	982.6	918.6	854.6	790.7	726.7	662.7	598.7	534.8	470.8
105°	1029.6	984.2	938.8	876.7	814.6	752.4	690.3	628.2	566.1	503.9	441.8
107.5°	986.7	942.9	899.1	838.4	777.7	716.9	656.2	595.5	534.8	474.0	413.3
110°	941.8	899.6	857.4	798.3	739.2	680.1	621.0	561.8	502.7	443.6	384.5



TEST NUMBER: P201416

CATALOG NUMBER: 8LBLED-LD4-16-ASYMW-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°	894.7	854.2	813.6	756.3	699.1	641.8	584.6	527.3	470.1	412.8	355.6
115°	847.7	808.7	769.8	714.4	659.0	603.6	548.2	492.8	437.4	382.0	326.6
117.5°	799.0	761.4	723.9	670.6	617.3	564.0	510.7	457.3	404.0	350.7	297.4
120°	748.2	712.1	675.9	625.1	574.4	523.6	472.8	422.1	371.3	320.5	269.8
122.5°	696.3	661.0	625.8	577.8	529.8	481.9	433.9	385.9	337.9	290.0	242.0
125°	641.8	607.8	573.7	528.7	483.8	438.8	393.8	348.9	303.9	258.9	214.0
127.5°	590.6	558.2	525.7	483.3	440.9	398.4	356.0	313.6	271.2	228.7	186.3
130°	535.2	504.3	473.5	434.3	395.2	356.0	316.8	277.7	238.5	199.3	160.2
132.5°	483.1	454.3	425.6	389.4	353.3	317.1	280.9	244.8	208.6	172.4	136.3
135°	433.0	406.4	379.7	346.3	312.9	279.6	246.2	212.8	179.4	146.1	112.7
137.5°	382.9	358.4	333.8	303.7	273.5	243.4	213.3	183.1	153.0	122.9	92.7
140°	336.1	314.1	292.1	264.5	236.9	209.3	181.7	154.2	126.6	99.0	71.4
142.5°	288.5	268.4	248.2	223.9	199.5	175.2	150.9	126.5	102.2	77.9	53.5
145°	242.7	224.6	206.5	185.6	164.8	143.9	123.1	102.2	81.4	60.5	39.7
147.5°	197.2	181.0	164.8	148.1	131.4	114.7	98.0	81.4	64.7	48.0	31.3
150°	155.6	141.4	127.3	114.3	101.3	88.3	75.3	62.4	49.4	36.4	23.4
152.5°	114.3	102.0	89.7	80.4	71.2	61.9	52.6	43.4	34.1	24.8	15.6
155°	79.3	68.8	58.4	52.4	46.4	40.3	34.3	28.3	22.3	16.2	10.2
157.5°	47.5	39.4	31.3	28.1	24.8	21.6	18.3	15.1	11.8	8.6	5.3
160°	26.4	21.6	16.7	15.1	13.5	11.8	10.2	8.6	7.0	5.3	3.7
162.5°	10.9	8.6	6.3	5.8	5.4	4.9	4.4	4.0	3.5	3.0	2.6
165°	3.5	2.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9
175°	0.0	0.0	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9
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: P201416

CATALOG NUMBER: 8LBLELD4-16-ASYMW-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°	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3
2.5°	1850.4	1856.2	1862.0	1867.8	1873.6	1879.3	1885.1	1890.9	1896.7	1902.5	1903.0
5°	1825.4	1833.0	1840.7	1848.3	1856.0	1863.6	1871.3	1878.9	1886.6	1894.2	1897.2
7.5°	1794.1	1803.4	1812.6	1821.9	1831.2	1840.4	1849.7	1859.0	1868.2	1877.5	1883.3
10°	1760.7	1771.6	1782.5	1793.4	1804.3	1815.1	1826.0	1836.9	1847.8	1858.7	1867.3
12.5°	1727.3	1738.9	1750.5	1762.1	1773.7	1785.2	1796.8	1808.4	1820.0	1831.6	1842.7
15°	1689.8	1702.1	1714.4	1726.6	1738.9	1751.2	1763.5	1775.7	1788.0	1800.3	1814.4
17.5°	1654.3	1666.6	1678.9	1691.2	1703.5	1715.7	1728.0	1740.3	1752.6	1764.9	1782.0
20°	1616.7	1628.3	1639.9	1651.5	1663.1	1674.6	1686.2	1697.8	1709.4	1721.0	1741.4
22.5°	1579.2	1589.9	1600.5	1611.2	1621.9	1632.5	1643.2	1653.9	1664.5	1675.2	1699.3
25°	1539.6	1548.9	1558.1	1567.4	1576.7	1585.9	1595.2	1604.5	1613.7	1623.0	1650.6
27.5°	1502.0	1509.4	1516.8	1524.3	1531.7	1539.1	1546.5	1554.0	1561.4	1568.8	1600.1
30°	1470.7	1475.1	1479.5	1483.9	1488.3	1492.7	1497.1	1501.5	1505.9	1510.3	1545.8
32.5°	1445.7	1445.9	1446.2	1446.4	1446.6	1446.9	1447.1	1447.3	1447.6	1447.8	1487.4
35°	1422.7	1418.1	1413.4	1408.8	1404.2	1399.5	1394.9	1390.3	1385.6	1381.0	1425.7
37.5°	1395.6	1386.6	1377.5	1368.5	1359.5	1350.4	1341.4	1332.4	1323.3	1314.3	1364.1
40°	1370.6	1356.7	1342.8	1328.9	1315.0	1301.0	1287.1	1273.2	1259.3	1245.4	1300.6
42.5°	1341.4	1322.6	1303.8	1285.1	1266.3	1247.5	1228.7	1210.0	1191.2	1172.4	1233.1
45°	1310.1	1286.7	1263.3	1239.9	1216.5	1193.0	1169.6	1146.2	1122.8	1099.4	1165.0
47.5°	1278.8	1250.8	1222.7	1194.7	1166.6	1138.6	1110.5	1082.5	1054.4	1026.4	1097.3
50°	1243.3	1211.1	1178.9	1146.7	1114.5	1082.2	1050.0	1017.8	985.6	953.4	1029.4
52.5°	1207.9	1171.0	1134.2	1097.3	1060.5	1023.6	986.8	949.9	913.1	876.2	957.6
55°	1172.4	1131.1	1089.9	1048.6	1007.4	966.1	924.9	883.6	842.4	801.1	887.1
57.5°	1134.8	1089.6	1044.4	999.2	954.0	908.9	863.7	818.5	773.3	728.1	818.3
60°	1095.2	1046.3	997.4	948.5	899.6	850.6	801.7	752.8	703.9	655.0	749.1
62.5°	1055.6	1003.0	950.4	897.7	845.1	792.5	739.9	687.2	634.6	582.0	679.8
65°	1007.6	952.2	896.8	841.4	786.0	730.6	675.2	619.8	564.4	509.0	610.1
67.5°	963.8	904.7	845.6	786.5	727.4	668.2	609.1	550.0	490.9	431.8	536.3
70°	917.9	856.2	794.6	732.9	671.3	609.6	548.0	486.3	424.7	363.0	469.9
72.5°	867.8	804.3	740.8	677.3	613.8	550.2	486.7	423.2	359.7	296.2	404.9
75°	813.6	749.2	684.7	620.3	555.8	491.4	426.9	362.5	298.0	233.6	343.2
77.5°	761.4	696.3	631.1	566.0	500.9	435.7	370.6	305.5	240.3	175.2	285.3
80°	709.3	644.2	579.0	513.9	448.8	383.6	318.5	253.4	188.2	123.1	232.7
82.5°	657.1	592.7	528.2	463.8	399.4	334.9	270.5	206.1	141.6	77.2	185.7
85°	609.1	545.8	482.5	419.3	356.0	292.7	229.4	166.2	102.9	39.6	146.0
87.5°	567.4	505.7	444.1	382.4	320.8	259.1	197.5	135.8	74.2	12.5	116.1
90°	538.2	478.6	419.1	359.5	299.9	240.4	180.8	121.2	61.7	2.1	101.8
92.5°	515.3	458.0	400.8	343.5	286.3	229.0	171.8	114.5	57.3	0.0	96.2
95°	486.1	432.3	378.5	324.8	271.0	217.2	163.4	109.7	55.9	2.1	94.1
97.5°	461.0	409.8	358.6	307.3	256.1	204.9	153.7	102.4	51.2	0.0	88.1
100°	433.9	385.9	337.9	290.0	242.0	194.0	146.0	98.1	50.1	2.1	85.8
102.5°	406.8	361.8	316.9	271.9	226.9	182.0	137.0	92.0	47.1	2.1	82.3
105°	379.7	337.7	295.8	253.8	211.9	169.9	128.0	86.0	44.1	2.1	77.4
107.5°	352.6	313.7	274.7	235.8	196.8	157.9	118.9	80.0	41.0	2.1	73.5
110°	325.4	289.5	253.6	217.6	181.7	145.8	109.9	73.9	38.0	2.1	68.9



TEST NUMBER: P201416

CATALOG NUMBER: 8LBLED-LD4-16-ASYMW-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°	298.3	265.4	232.5	199.6	166.7	133.7	100.8	67.9	35.0	2.1	64.0
115°	271.2	241.3	211.4	181.5	151.6	121.7	91.8	61.9	32.0	2.1	58.9
117.5°	244.1	217.2	190.3	163.4	136.5	109.7	82.8	55.9	29.0	2.1	53.8
120°	219.0	194.9	170.8	146.7	122.6	98.5	74.4	50.3	26.2	2.1	48.9
122.5°	194.0	172.7	151.4	130.0	108.7	87.4	66.1	44.7	23.4	2.1	44.1
125°	169.0	150.5	131.9	113.4	94.8	76.3	57.7	39.2	20.6	2.1	39.0
127.5°	143.9	128.1	112.4	96.6	80.9	65.1	49.4	33.6	17.9	2.1	33.2
130°	121.0	107.8	94.6	81.4	68.2	54.9	41.7	28.5	15.3	2.1	27.8
132.5°	100.1	89.2	78.3	67.4	56.5	45.7	34.8	23.9	13.0	2.1	22.7
135°	79.3	70.7	62.1	53.6	45.0	36.4	27.8	19.3	10.7	2.1	18.1
137.5°	62.6	55.9	49.2	42.4	35.7	29.0	22.3	15.5	8.8	2.1	14.4
140°	43.8	39.2	34.5	29.9	25.3	20.6	16.0	11.4	6.7	2.1	10.7
142.5°	29.2	26.2	23.2	20.2	17.2	14.1	11.1	8.1	5.1	2.1	8.4
145°	18.8	16.9	15.1	13.2	11.4	9.5	7.7	5.8	4.0	2.1	6.0
147.5°	14.6	13.2	11.8	10.4	9.0	7.7	6.3	4.9	3.5	2.1	4.9
150°	10.4	9.5	8.6	7.6	6.7	5.8	4.9	3.9	3.0	2.1	4.0
152.5°	6.3	5.8	5.4	4.9	4.4	4.0	3.5	3.0	2.6	2.1	3.5
155°	4.2	4.0	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	3.0
157.5°	2.1	2.3	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	4.4
160°	2.1	2.3	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	4.2
162.5°	2.1	2.3	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	4.0
165°	2.1	2.3	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	3.7
167.5°	0.0	0.5	0.9	1.4	1.9	2.3	2.8	3.3	3.7	4.2	3.7
170°	0.0	0.5	0.9	1.4	1.9	2.3	2.8	3.3	3.7	4.2	3.7
172.5°	2.1	2.3	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	3.7
175°	2.1	2.3	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	3.7
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: P201416

CATALOG NUMBER: 8LBLEDD4-16-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3
2.5°	1903.4	1903.9	1904.4	1904.8	1905.3	1905.8	1906.2	1906.7	1908.6	1910.4	1912.3
5°	1900.2	1903.2	1906.2	1909.3	1912.3	1915.3	1918.3	1921.3	1925.7	1930.1	1934.5
7.5°	1889.1	1894.9	1900.7	1906.5	1912.3	1918.1	1923.9	1929.7	1936.9	1944.1	1951.2
10°	1875.9	1884.4	1893.0	1901.6	1910.2	1918.7	1927.3	1935.9	1945.9	1955.8	1965.8
12.5°	1853.8	1865.0	1876.1	1887.2	1898.3	1909.5	1920.6	1931.7	1945.4	1959.1	1972.7
15°	1828.6	1842.7	1856.9	1871.0	1885.2	1899.3	1913.5	1927.6	1945.0	1962.4	1979.7
17.5°	1799.2	1816.3	1833.5	1850.6	1867.8	1884.9	1902.1	1919.2	1941.5	1963.7	1986.0
20°	1761.8	1782.2	1802.6	1823.0	1843.4	1863.8	1884.2	1904.6	1932.6	1960.7	1988.7
22.5°	1723.4	1747.5	1771.6	1795.7	1819.8	1843.9	1868.0	1892.1	1926.4	1960.7	1995.0
25°	1678.2	1705.7	1733.3	1760.9	1788.5	1816.0	1843.6	1871.2	1912.5	1953.7	1995.0
27.5°	1631.4	1662.7	1694.0	1725.2	1756.5	1787.8	1819.1	1850.4	1898.6	1946.8	1995.0
30°	1581.2	1616.7	1652.2	1687.6	1723.1	1758.6	1794.0	1829.5	1884.0	1938.5	1992.9
32.5°	1527.1	1566.7	1606.3	1646.0	1685.6	1725.2	1764.9	1804.5	1865.2	1926.0	1986.7
35°	1470.5	1515.2	1559.9	1604.7	1649.4	1694.1	1738.9	1783.6	1850.1	1916.6	1983.2
37.5°	1414.0	1463.8	1513.6	1563.5	1613.3	1663.1	1713.0	1762.8	1834.9	1907.0	1979.0
40°	1355.7	1410.9	1466.1	1521.2	1576.4	1631.6	1686.7	1741.9	1819.3	1896.7	1974.2
42.5°	1293.9	1354.6	1415.3	1476.1	1536.8	1597.5	1658.3	1719.0	1801.5	1884.0	1966.5
45°	1230.6	1296.2	1361.8	1427.4	1493.0	1558.6	1624.2	1689.8	1777.9	1866.0	1954.0
47.5°	1168.2	1239.2	1310.1	1381.0	1451.9	1522.9	1593.8	1664.7	1757.2	1849.7	1942.2
50°	1105.4	1181.5	1257.5	1333.5	1409.5	1485.6	1561.6	1637.6	1734.5	1831.4	1928.3
52.5°	1038.9	1120.3	1201.6	1283.0	1364.3	1445.7	1527.0	1608.4	1709.2	1810.1	1910.9
55°	973.1	1059.1	1145.1	1231.0	1317.0	1403.0	1489.0	1575.0	1680.0	1785.0	1890.0
57.5°	908.4	998.6	1088.8	1178.9	1269.1	1359.3	1449.4	1539.6	1649.0	1758.4	1867.8
60°	843.2	937.3	1031.4	1125.6	1219.7	1313.8	1407.9	1502.0	1615.3	1728.7	1842.0
62.5°	777.6	875.5	973.3	1071.1	1168.9	1266.8	1364.6	1462.4	1579.7	1697.0	1814.2
65°	711.1	812.2	913.3	1014.3	1115.4	1216.5	1317.5	1418.6	1539.8	1661.0	1782.3
67.5°	640.9	745.4	850.0	954.5	1059.1	1163.6	1268.2	1372.7	1497.6	1622.6	1747.5
70°	576.7	683.6	790.4	897.3	1004.1	1111.0	1217.8	1324.7	1452.6	1580.6	1708.5
72.5°	513.6	622.3	731.0	839.8	948.5	1057.2	1165.9	1274.6	1404.2	1533.8	1663.3
75°	452.9	562.5	672.2	781.8	891.5	1001.1	1110.8	1220.4	1351.4	1482.3	1613.3
77.5°	395.4	505.5	615.6	725.7	835.8	945.9	1056.0	1166.1	1297.1	1428.0	1559.0
80°	342.4	452.0	561.6	671.3	780.9	890.5	1000.2	1109.8	1240.1	1370.3	1500.6
82.5°	294.2	402.6	511.1	619.6	728.1	836.5	945.0	1053.5	1182.6	1311.7	1440.8
85°	252.4	358.8	465.2	571.6	678.0	784.4	890.8	997.2	1124.7	1252.2	1379.6
87.5°	219.7	323.3	426.9	530.6	634.2	737.8	841.4	945.0	1070.2	1195.3	1320.5
90°	201.4	301.1	400.8	500.4	600.1	699.8	799.4	899.1	1021.5	1143.9	1266.3
92.5°	192.4	288.6	384.8	480.9	577.1	673.3	769.5	865.7	985.8	1105.8	1225.9
95°	186.1	278.2	370.2	462.2	554.2	646.3	738.3	830.3	948.5	1066.7	1184.9
97.5°	176.2	264.2	352.3	440.4	528.5	616.5	704.6	792.7	909.3	1025.9	1142.5
100°	169.5	253.1	336.8	420.5	504.2	587.8	671.5	755.2	869.9	984.7	1099.4
102.5°	162.5	242.7	322.9	403.1	483.3	563.5	643.7	723.9	836.1	948.3	1060.5
105°	152.8	228.1	303.4	378.8	454.1	529.4	604.8	680.1	790.4	900.8	1011.1
107.5°	144.9	216.3	287.7	359.0	430.4	501.8	573.2	644.6	751.9	859.2	966.6
110°	135.6	202.4	269.1	335.9	402.6	469.4	536.1	602.9	707.4	812.0	916.5



TEST NUMBER: P201416

CATALOG NUMBER: 8LBLED-LD4-16-ASYMW-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°	125.9	187.8	249.7	311.5	373.4	435.3	497.2	559.1	661.1	763.1	865.1
115°	115.7	172.5	229.3	286.0	342.8	399.6	456.4	513.2	612.6	712.1	811.5
117.5°	105.5	157.2	208.9	260.5	312.2	363.9	415.6	467.3	563.5	659.7	755.9
120°	95.7	142.6	189.4	236.2	283.0	329.9	376.7	423.5	516.4	609.4	702.3
122.5°	86.0	128.0	169.9	211.9	253.8	295.8	337.7	379.7	468.9	558.2	647.4
125°	75.8	112.7	149.5	186.4	223.2	260.1	296.9	333.8	418.9	503.9	589.0
127.5°	64.2	95.3	126.3	157.4	188.4	219.5	250.5	281.6	361.8	442.0	522.2
130°	53.5	79.3	105.0	130.7	156.4	182.2	207.9	233.6	306.4	379.2	452.0
132.5°	43.4	64.0	84.6	105.3	125.9	146.5	167.2	187.8	253.4	319.0	384.6
135°	34.1	50.1	66.1	82.0	98.0	114.0	130.0	146.0	204.9	263.8	322.6
137.5°	26.7	39.0	51.3	63.5	75.8	88.1	100.4	112.7	164.8	217.0	269.1
140°	19.3	27.8	36.4	45.0	53.6	62.1	70.7	79.3	125.0	170.6	216.3
142.5°	14.6	20.9	27.1	33.4	39.6	45.9	52.1	58.4	97.3	136.3	175.2
145°	10.0	13.9	17.9	21.8	25.8	29.7	33.7	37.6	70.5	103.4	136.3
147.5°	7.7	10.4	13.2	16.0	18.8	21.5	24.3	27.1	53.5	79.9	106.4
150°	5.8	7.7	9.5	11.4	13.2	15.1	16.9	18.8	39.0	59.1	79.3
152.5°	4.9	6.3	7.7	9.0	10.4	11.8	13.2	14.6	29.2	43.8	58.4
155°	3.9	4.9	5.8	6.7	7.6	8.6	9.5	10.4	19.7	29.0	38.2
157.5°	4.7	4.9	5.1	5.4	5.6	5.8	6.1	6.3	11.6	16.9	22.3
160°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	7.0	9.8	12.5
162.5°	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	3.5	4.9	6.3
165°	3.3	2.8	2.3	1.9	1.4	0.9	0.5	0.0	0.5	0.9	1.4
167.5°	3.3	2.8	2.3	1.9	1.4	0.9	0.5	0.0	0.0	0.0	0.0
170°	3.3	2.8	2.3	1.9	1.4	0.9	0.5	0.0	0.0	0.0	0.0
172.5°	3.3	2.8	2.3	1.9	1.4	0.9	0.5	0.0	0.0	0.0	0.0
175°	3.3	2.8	2.3	1.9	1.4	0.9	0.5	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: P201416

CATALOG NUMBER: 8LBLEDD4-16-ASYMW-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°	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3
2.5°	1914.1	1916.0	1917.8	1919.7	1921.5	1923.4	1924.3	1925.2	1926.2	1927.1	1928.0
5°	1938.9	1943.3	1947.7	1952.1	1956.5	1960.9	1963.2	1965.5	1967.9	1970.2	1972.5
7.5°	1958.4	1965.6	1972.8	1979.9	1987.1	1994.3	1998.7	2003.1	2007.5	2011.9	2016.4
10°	1975.8	1985.7	1995.7	2005.7	2015.6	2025.6	2033.0	2040.4	2047.9	2055.3	2062.7
12.5°	1986.4	2000.1	2013.8	2027.4	2041.1	2054.8	2065.2	2075.7	2086.1	2096.5	2107.0
15°	1997.1	2014.5	2031.9	2049.2	2066.6	2084.0	2098.4	2112.8	2127.1	2141.5	2155.9
17.5°	2008.2	2030.5	2052.7	2075.0	2097.2	2119.5	2139.2	2158.9	2178.6	2198.3	2218.0
20°	2016.8	2044.8	2072.9	2100.9	2129.0	2157.0	2181.1	2205.2	2229.3	2253.4	2277.6
22.5°	2029.3	2063.7	2098.0	2132.3	2166.6	2200.9	2228.2	2255.6	2282.9	2310.3	2337.6
25°	2036.3	2077.5	2118.8	2160.1	2201.3	2242.6	2273.7	2304.7	2335.8	2366.8	2397.9
27.5°	2043.2	2091.5	2139.7	2187.9	2236.1	2284.3	2318.4	2352.5	2386.5	2420.6	2454.7
30°	2047.4	2101.9	2156.4	2210.8	2265.3	2319.8	2357.3	2394.9	2432.4	2470.0	2507.5
32.5°	2047.4	2108.2	2168.9	2229.6	2290.4	2351.1	2392.4	2433.6	2474.9	2516.1	2557.4
35°	2049.7	2116.2	2182.7	2249.3	2315.8	2382.3	2427.5	2472.7	2517.9	2563.1	2608.3
37.5°	2051.1	2123.2	2195.3	2267.3	2339.4	2411.5	2460.6	2509.8	2558.9	2608.1	2657.2
40°	2051.6	2129.0	2206.4	2283.9	2361.3	2438.7	2491.8	2544.9	2597.9	2651.0	2704.1
42.5°	2049.0	2131.6	2214.1	2296.6	2379.1	2461.6	2518.6	2575.6	2632.7	2689.7	2746.7
45°	2042.1	2130.2	2218.3	2306.3	2394.4	2482.5	2543.9	2605.3	2666.8	2728.2	2789.6
47.5°	2034.7	2127.1	2219.6	2312.1	2404.6	2497.1	2563.6	2630.1	2696.7	2763.2	2829.7
50°	2025.2	2122.0	2218.9	2315.8	2412.7	2509.6	2581.0	2652.4	2723.8	2795.2	2866.5
52.5°	2011.7	2112.6	2213.4	2314.2	2415.1	2515.9	2592.8	2669.8	2746.7	2823.7	2900.6
55°	1995.0	2100.0	2205.0	2310.0	2415.0	2520.0	2601.6	2683.2	2764.8	2846.4	2927.9
57.5°	1977.2	2086.6	2196.0	2305.4	2414.8	2524.2	2610.4	2696.6	2782.9	2869.1	2955.3
60°	1955.4	2068.7	2182.1	2295.4	2408.8	2522.1	2612.5	2702.9	2793.3	2883.7	2974.1
62.5°	1931.5	2048.8	2166.1	2283.3	2400.6	2517.9	2611.8	2705.7	2799.5	2893.4	2987.3
65°	1903.5	2024.7	2145.9	2267.2	2388.4	2509.6	2606.3	2702.9	2799.6	2896.2	2992.9
67.5°	1872.4	1997.4	2122.3	2247.2	2372.2	2497.1	2595.8	2694.6	2793.3	2892.1	2990.8
70°	1836.5	1964.4	2092.4	2220.3	2348.3	2476.2	2576.8	2677.4	2778.0	2878.6	2979.2
72.5°	1792.9	1922.5	2052.1	2181.6	2311.2	2440.8	2542.8	2644.8	2746.7	2848.7	2950.7
75°	1744.2	1875.2	2006.1	2137.1	2268.0	2399.0	2501.7	2604.4	2707.1	2809.8	2912.4
77.5°	1690.0	1820.9	1951.9	2082.9	2213.8	2344.8	2447.0	2549.2	2651.5	2753.7	2855.9
80°	1630.9	1761.1	1891.4	2021.7	2151.9	2282.2	2383.5	2484.8	2586.1	2687.4	2788.6
82.5°	1569.9	1699.1	1828.2	1957.3	2086.4	2215.5	2316.1	2416.7	2517.3	2617.9	2718.4
85°	1507.1	1634.6	1762.1	1889.5	2017.0	2144.5	2242.6	2340.6	2438.7	2536.7	2634.8
87.5°	1445.7	1570.8	1696.0	1821.2	1946.3	2071.5	2168.2	2264.8	2361.5	2458.1	2554.8
90°	1388.7	1511.0	1633.4	1755.8	1878.2	2000.6	2094.2	2187.9	2281.5	2375.2	2468.8
92.5°	1346.0	1466.0	1586.1	1706.2	1826.2	1946.3	2037.4	2128.5	2219.6	2310.7	2401.8
95°	1303.1	1421.4	1539.6	1657.8	1776.0	1894.2	1983.9	2073.6	2163.3	2253.0	2342.7
97.5°	1259.1	1375.6	1492.2	1608.8	1725.4	1842.0	1929.4	2016.8	2104.2	2191.6	2278.9
100°	1214.1	1328.9	1443.6	1558.3	1673.1	1787.8	1872.4	1957.0	2041.6	2126.2	2210.8
102.5°	1172.7	1284.8	1397.0	1509.2	1621.4	1733.6	1816.6	1899.6	1982.5	2065.5	2148.5
105°	1121.4	1231.8	1342.1	1452.4	1562.8	1673.1	1754.7	1836.3	1917.9	1999.5	2081.0
107.5°	1073.9	1181.2	1288.5	1395.9	1503.2	1610.5	1690.7	1770.9	1851.1	1931.3	2011.5
110°	1021.0	1125.6	1230.1	1334.6	1439.2	1543.7	1622.0	1700.4	1778.7	1857.1	1935.4



TEST NUMBER: P201416

CATALOG NUMBER: 8LBLED-LD4-16-ASYMW-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°	967.1	1069.0	1171.0	1273.0	1375.0	1477.0	1553.3	1629.5	1705.8	1782.0	1858.3
115°	910.9	1010.4	1109.8	1209.2	1308.7	1408.1	1482.3	1556.5	1630.6	1704.8	1779.0
117.5°	852.1	948.2	1044.4	1140.6	1236.8	1333.0	1405.1	1477.2	1549.3	1621.4	1693.4
120°	795.3	888.2	981.2	1074.1	1167.1	1260.0	1329.1	1398.2	1467.2	1536.3	1605.4
122.5°	736.6	825.9	915.1	1004.3	1093.6	1182.8	1249.3	1315.8	1382.4	1448.9	1515.4
125°	674.1	759.1	844.2	929.3	1014.3	1099.4	1163.1	1226.9	1290.6	1354.4	1418.1
127.5°	602.4	682.6	762.8	843.0	923.2	1003.4	1065.8	1128.1	1190.5	1252.8	1315.2
130°	524.8	597.5	670.3	743.1	815.9	888.7	951.5	1014.3	1077.1	1139.9	1202.8
132.5°	450.2	515.7	581.3	646.9	712.5	778.1	840.5	902.8	965.2	1027.5	1089.9
135°	381.5	440.4	499.3	558.1	617.0	675.9	736.2	796.4	856.7	917.0	977.2
137.5°	321.3	373.4	425.6	477.7	529.9	582.0	637.9	693.7	749.6	805.5	861.3
140°	261.9	307.6	353.2	398.9	444.5	490.2	540.5	590.8	641.1	691.4	741.7
142.5°	214.2	253.1	292.1	331.0	370.0	408.9	453.4	497.9	542.4	586.9	631.4
145°	169.2	202.2	235.1	268.0	300.9	333.8	372.3	410.8	449.2	487.7	526.2
147.5°	132.8	159.2	185.6	212.1	238.5	264.9	297.8	330.7	363.7	396.6	429.5
150°	99.5	119.6	139.8	160.0	180.1	200.3	227.6	255.0	282.3	309.7	337.0
152.5°	73.0	87.6	102.2	116.8	131.4	146.0	168.3	190.5	212.8	235.0	257.3
155°	47.5	56.8	66.1	75.3	84.6	93.9	111.7	129.6	147.4	165.3	183.1
157.5°	27.6	32.9	38.2	43.6	48.9	54.2	67.6	81.1	94.5	108.0	121.4
160°	15.3	18.1	20.9	23.6	26.4	29.2	37.8	46.4	54.9	63.5	72.1
162.5°	7.7	9.0	10.4	11.8	13.2	14.6	18.8	23.0	27.1	31.3	35.5
165°	1.9	2.3	2.8	3.3	3.7	4.2	5.8	7.4	9.1	10.7	12.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	1.4	1.9	2.3
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201416

CATALOG NUMBER: 8LBLEDD4-16-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3	1873.3
2.5°	1928.9	1929.9	1930.8	1931.7	1929.6	1927.5	1925.5	1923.4	1921.3	1919.2	1917.2
5°	1974.8	1977.2	1979.5	1981.8	1981.6	1981.3	1981.1	1980.9	1980.6	1980.4	1980.2
7.5°	2020.8	2025.2	2029.6	2034.0	2034.5	2034.9	2035.4	2035.8	2036.3	2036.7	2037.2
10°	2070.1	2077.6	2085.0	2092.4	2093.3	2094.2	2095.2	2096.1	2097.0	2097.9	2098.9
12.5°	2117.4	2127.8	2138.3	2148.7	2151.5	2154.3	2157.0	2159.8	2162.6	2165.4	2168.1
15°	2170.3	2184.6	2199.0	2213.4	2218.5	2223.6	2228.7	2233.8	2238.9	2244.0	2249.1
17.5°	2237.7	2257.4	2277.1	2296.8	2303.1	2309.3	2315.6	2321.8	2328.1	2334.3	2340.6
20°	2301.7	2325.8	2349.9	2374.0	2381.6	2389.3	2396.9	2404.6	2412.2	2419.9	2427.5
22.5°	2365.0	2392.3	2419.7	2447.0	2456.3	2465.6	2474.8	2484.1	2493.4	2502.7	2511.9
25°	2428.9	2460.0	2491.0	2522.1	2532.5	2543.0	2553.4	2563.8	2574.3	2584.7	2595.1
27.5°	2488.8	2522.8	2556.9	2591.0	2603.0	2615.1	2627.1	2639.2	2651.2	2663.3	2675.3
30°	2545.1	2582.6	2620.2	2657.7	2671.4	2685.1	2698.7	2712.4	2726.1	2739.8	2753.4
32.5°	2598.6	2639.9	2681.1	2722.4	2738.4	2754.4	2770.4	2786.4	2802.3	2818.3	2834.3
35°	2653.5	2698.7	2743.9	2789.1	2806.7	2824.3	2842.0	2859.6	2877.2	2894.8	2912.5
37.5°	2706.4	2755.5	2804.7	2853.8	2873.3	2892.7	2912.2	2931.7	2951.1	2970.6	2990.1
40°	2757.2	2810.2	2863.3	2916.4	2938.0	2959.5	2981.1	3002.6	3024.2	3045.7	3067.3
42.5°	2803.7	2860.8	2917.8	2974.8	2998.7	3022.6	3046.4	3070.3	3094.2	3118.1	3141.9
45°	2851.0	2912.5	2973.9	3035.3	3061.3	3087.2	3113.2	3139.1	3165.1	3191.0	3217.0
47.5°	2896.2	2962.8	3029.3	3095.8	3123.8	3151.9	3179.9	3208.0	3236.0	3264.1	3292.1
50°	2937.9	3009.3	3080.7	3152.1	3182.5	3212.8	3243.2	3273.6	3303.9	3334.3	3364.7
52.5°	2977.6	3054.5	3131.5	3208.4	3240.6	3272.8	3305.1	3337.3	3369.5	3401.7	3434.0
55°	3009.5	3091.1	3172.7	3254.3	3288.8	3323.4	3357.9	3392.5	3427.0	3461.6	3496.1
57.5°	3041.5	3127.8	3214.0	3300.2	3336.1	3372.1	3408.0	3443.9	3479.9	3515.8	3551.7
60°	3064.5	3154.9	3245.3	3335.7	3373.0	3410.3	3447.7	3485.0	3522.3	3559.6	3597.0
62.5°	3081.2	3175.0	3268.9	3362.8	3401.0	3439.3	3477.5	3515.8	3554.0	3592.3	3630.5
65°	3089.5	3186.2	3282.8	3379.5	3418.4	3457.4	3496.3	3535.3	3574.2	3613.2	3652.1
67.5°	3089.6	3188.3	3287.1	3385.8	3425.0	3464.1	3503.3	3542.5	3581.6	3620.8	3660.0
70°	3079.8	3180.4	3281.0	3381.6	3420.8	3459.9	3499.1	3538.3	3577.4	3616.6	3655.8
72.5°	3052.7	3154.6	3256.6	3358.6	3398.0	3437.4	3476.8	3516.2	3555.7	3595.1	3634.5
75°	3015.1	3117.8	3220.5	3323.2	3362.1	3401.1	3440.0	3479.0	3517.9	3556.9	3595.8
77.5°	2958.1	3060.4	3162.6	3264.8	3303.5	3342.2	3380.9	3419.6	3458.4	3497.1	3535.8
80°	2889.9	2991.2	3092.5	3193.8	3232.3	3270.8	3309.2	3347.7	3386.2	3424.7	3463.1
82.5°	2819.0	2919.6	3020.2	3120.8	3157.9	3195.0	3232.1	3269.2	3306.2	3343.3	3380.4
85°	2732.8	2830.9	2928.9	3027.0	3064.3	3101.6	3138.9	3176.2	3213.6	3250.9	3288.2
87.5°	2651.4	2748.1	2844.7	2941.4	2977.3	3013.3	3049.2	3085.1	3121.1	3157.0	3192.9
90°	2562.5	2656.1	2749.8	2843.4	2879.8	2916.2	2952.6	2989.0	3025.3	3061.7	3098.1
92.5°	2492.9	2584.0	2675.1	2766.2	2801.7	2837.1	2872.6	2908.1	2943.5	2979.0	3014.5
95°	2432.4	2522.1	2611.8	2701.5	2734.6	2767.8	2800.9	2834.1	2867.2	2900.4	2933.5
97.5°	2366.3	2453.7	2541.1	2628.5	2660.7	2692.9	2725.2	2757.4	2789.6	2821.8	2854.1
100°	2295.4	2380.0	2464.6	2549.2	2581.4	2613.6	2645.9	2678.1	2710.3	2742.5	2774.8
102.5°	2231.5	2314.4	2397.4	2480.4	2511.9	2543.4	2575.0	2606.5	2638.0	2669.5	2701.1
105°	2162.6	2244.2	2325.8	2407.4	2438.2	2469.0	2499.9	2530.7	2561.5	2592.3	2623.2
107.5°	2091.7	2171.9	2252.1	2332.3	2362.7	2393.0	2423.4	2453.8	2484.1	2514.5	2544.9
110°	2013.8	2092.1	2170.5	2248.8	2278.5	2308.2	2337.8	2367.5	2397.2	2426.9	2456.5



TEST NUMBER: P201416

CATALOG NUMBER: 8LBLED-LD4-16-ASYMW-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°	1934.5	2010.8	2087.0	2163.3	2192.3	2221.3	2250.2	2279.2	2308.2	2337.2	2366.1
115°	1853.2	1927.3	2001.5	2075.7	2103.5	2131.3	2159.1	2186.9	2214.8	2242.6	2270.4
117.5°	1765.5	1837.6	1909.7	1981.8	2008.7	2035.6	2062.5	2089.4	2116.2	2143.1	2170.0
120°	1674.5	1743.5	1812.6	1881.7	1908.1	1934.5	1961.0	1987.4	2013.8	2040.2	2066.7
122.5°	1581.9	1648.5	1715.0	1781.5	1807.0	1832.5	1858.0	1883.5	1909.0	1934.5	1960.0
125°	1481.9	1545.6	1609.4	1673.1	1697.4	1721.8	1746.1	1770.4	1794.8	1819.1	1843.4
127.5°	1377.5	1439.9	1502.2	1564.6	1587.5	1610.5	1633.4	1656.4	1679.3	1702.3	1725.2
130°	1265.6	1328.4	1391.2	1454.0	1475.8	1497.6	1519.4	1541.2	1562.9	1584.7	1606.5
132.5°	1152.2	1214.6	1276.9	1339.3	1361.6	1383.8	1406.1	1428.3	1450.6	1472.8	1495.1
135°	1037.5	1097.8	1158.0	1218.3	1239.6	1260.9	1282.3	1303.6	1324.9	1346.2	1367.6
137.5°	917.2	973.1	1028.9	1084.8	1106.4	1127.9	1149.5	1171.0	1192.6	1214.1	1235.7
140°	792.0	842.3	892.6	942.9	965.2	987.4	1009.7	1031.9	1054.2	1076.4	1098.7
142.5°	675.9	720.4	764.9	809.4	832.1	854.8	877.6	900.3	923.0	945.7	968.5
145°	564.7	603.1	641.6	680.1	703.7	727.4	751.0	774.7	798.3	822.0	845.6
147.5°	462.4	495.4	528.3	561.2	584.8	608.5	632.1	655.7	679.4	703.0	726.6
150°	364.4	391.7	419.1	446.4	470.0	493.7	517.3	541.0	564.6	588.3	611.9
152.5°	279.5	301.8	324.0	346.3	368.6	390.8	413.1	435.3	457.6	479.8	502.1
155°	201.0	218.8	236.7	254.5	274.2	293.9	313.6	333.3	353.0	372.7	392.4
157.5°	134.9	148.3	161.8	175.2	192.1	209.0	226.0	242.9	259.8	276.7	293.7
160°	80.7	89.2	97.8	106.4	120.1	133.8	147.4	161.1	174.8	188.5	202.1
162.5°	39.7	43.8	48.0	52.2	61.5	70.7	80.0	89.3	98.5	107.8	117.1
165°	13.9	15.6	17.2	18.8	24.4	29.9	35.5	41.0	46.6	52.1	57.7
167.5°	2.8	3.3	3.7	4.2	6.3	8.4	10.4	12.5	14.6	16.7	18.7
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: P201416

CATALOG NUMBER: 8LBLED-LD4-16-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1873.3	1873.3
2.5°	1915.1	1913.0
5°	1979.9	1979.7
7.5°	2037.6	2038.1
10°	2099.8	2100.7
12.5°	2170.9	2173.7
15°	2254.2	2259.3
17.5°	2346.8	2353.1
20°	2435.2	2442.8
22.5°	2521.2	2530.5
25°	2605.6	2616.0
27.5°	2687.4	2699.4
30°	2767.1	2780.8
32.5°	2850.3	2866.3
35°	2930.1	2947.7
37.5°	3009.5	3029.0
40°	3088.8	3110.4
42.5°	3165.8	3189.7
45°	3242.9	3268.9
47.5°	3320.2	3348.2
50°	3395.0	3425.4
52.5°	3466.2	3498.4
55°	3530.7	3565.2
57.5°	3587.7	3623.6
60°	3634.3	3671.6
62.5°	3668.8	3707.0
65°	3691.1	3730.0
67.5°	3699.1	3738.3
70°	3694.9	3734.1
72.5°	3673.9	3713.3
75°	3634.8	3673.7
77.5°	3574.5	3613.2
80°	3501.6	3540.1
82.5°	3417.5	3454.6
85°	3325.5	3362.8
87.5°	3228.9	3264.8
90°	3134.5	3170.9
92.5°	3049.9	3085.4
95°	2966.7	2999.8
97.5°	2886.3	2918.5
100°	2807.0	2839.2
102.5°	2732.6	2764.1
105°	2654.0	2684.8
107.5°	2575.2	2605.6
110°	2486.2	2515.9



TEST NUMBER: P201416

CATALOG NUMBER: 8LBLED-LD4-16-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	2395.1	2424.1
115°	2298.2	2326.0
117.5°	2196.9	2223.8
120°	2093.1	2119.5
122.5°	1985.5	2011.0
125°	1867.8	1892.1
127.5°	1748.2	1771.1
130°	1628.3	1650.1
132.5°	1517.3	1539.6
135°	1388.9	1410.2
137.5°	1257.2	1278.8
140°	1120.9	1143.2
142.5°	991.2	1013.9
145°	869.3	892.9
147.5°	750.3	773.9
150°	635.6	659.2
152.5°	524.3	546.6
155°	412.1	431.8
157.5°	310.6	327.5
160°	215.8	229.5
162.5°	126.3	135.6
165°	63.2	68.8
167.5°	20.8	22.9
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)