

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: P201401

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28235)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8LBLELD4-16-ASYMF-UNV-L850-CD2-U
Description: 8 ft. Low Bay Linear, 10000 lm, Frst 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: 18040.7 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 2.01 / 1.17 / 1.78
Luminous Opening: Rectangular w/ Sides (W: 8' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

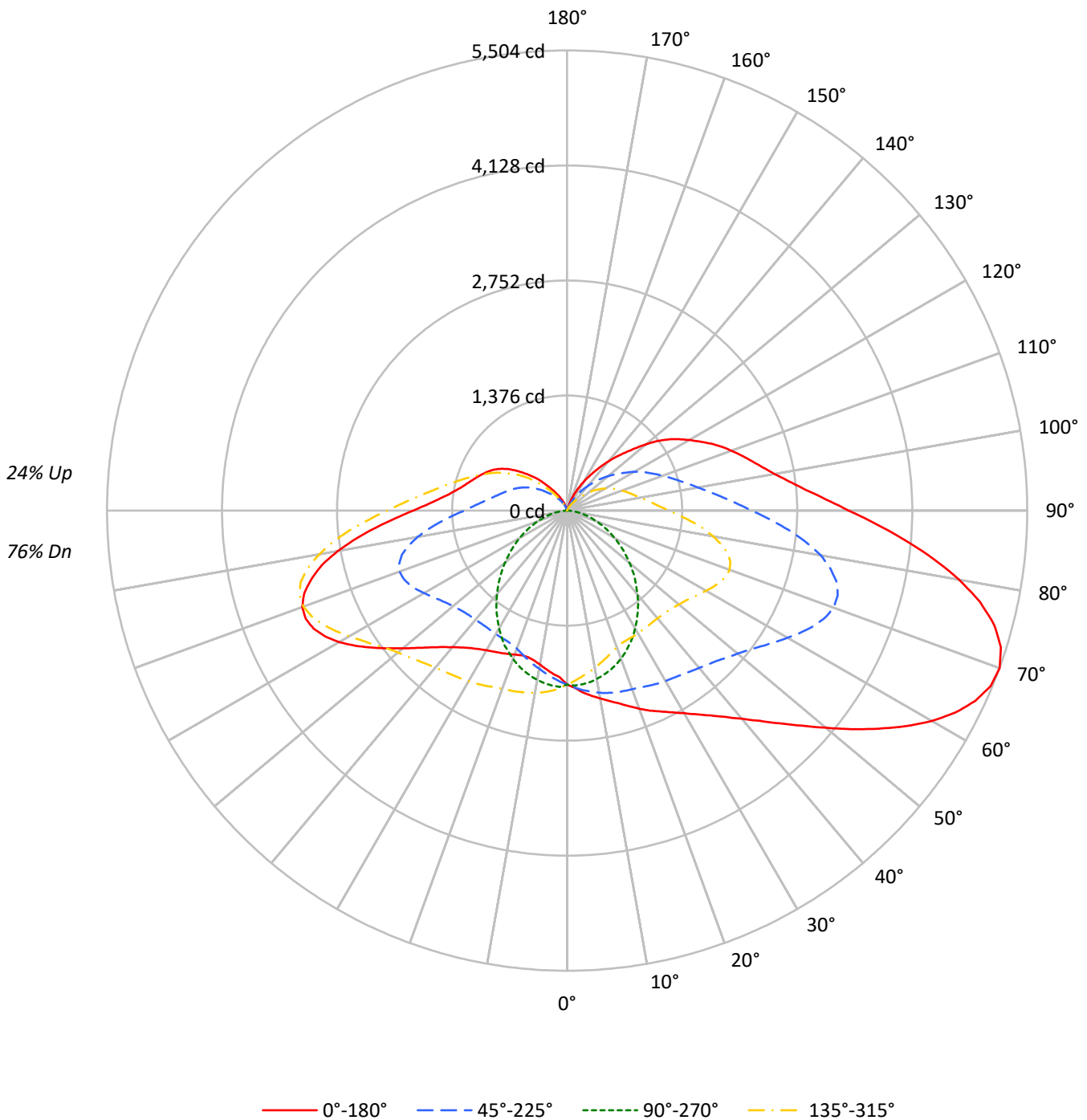
Input Watts (W): 133.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P201401

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

Luminous Intensity Polar Plot





TEST NUMBER: P201401

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

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 | 76 |
| 1 | 98 | 90 | 84 | 78 | 92 | 86 | 80 | 75 | 77 | 72 | 68 | 69 | 65 | 62 | 61 | 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 | 26 | 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 | 13 | 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° | 16761 | 16761 | 16761 | 16761 |
| 5° | 15930 | 16836 | 14276 | 16954 |
| 10° | 15294 | 16653 | 12545 | 16755 |
| 15° | 14922 | 16387 | 11345 | 16456 |
| 20° | 14874 | 16008 | 10812 | 16043 |
| 25° | 14904 | 15512 | 10564 | 15586 |
| 30° | 15141 | 14911 | 10436 | 14911 |
| 35° | 15716 | 14207 | 10546 | 14207 |
| 40° | 16721 | 13447 | 10966 | 13425 |
| 45° | 18261 | 12729 | 11727 | 12637 |
| 50° | 20393 | 11837 | 12931 | 11785 |
| 55° | 22987 | 10988 | 14438 | 10931 |
| 60° | 25693 | 10104 | 16063 | 10104 |
| 65° | 27969 | 9204 | 17371 | 9240 |
| 70° | 29323 | 8188 | 17964 | 8232 |
| 75° | 29155 | 7142 | 17461 | 7202 |
| 80° | 27398 | 5802 | 16015 | 6057 |
| 85° | 24612 | 4005 | 13884 | 4447 |



TEST NUMBER: P201401

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

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 197.5 | 1.1 |
| 10°-20° | 576.3 | 3.2 |
| 20°-30° | 929.5 | 5.2 |
| 30°-40° | 1260.0 | 7.0 |
| 40°-50° | 1619.0 | 9.0 |
| 50°-60° | 2070.5 | 11.5 |
| 60°-70° | 2529.0 | 14.0 |
| 70°-80° | 2582.1 | 14.3 |
| 80°-90° | 2024.9 | 11.2 |
| 90°-100° | 1413.2 | 7.8 |
| 100°-110° | 1053.4 | 5.8 |
| 110°-120° | 788.5 | 4.4 |
| 120°-130° | 534.7 | 3.0 |
| 130°-140° | 295.2 | 1.6 |
| 140°-150° | 126.1 | 0.7 |
| 150°-160° | 37.1 | 0.2 |
| 160°-170° | 3.6 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1703.3 | 9.4 |
| 0°-40° | 2963.3 | 16.4 |
| 0°-60° | 6652.8 | 36.9 |
| 0°-90° | 13788.9 | 76.4 |
| 90°-120° | 3255.0 | 18.0 |
| 90°-150° | 4211.1 | 23.3 |
| 90°-180° | 4252.0 | 23.6 |
| 0°-180° | 18040.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 2080 | 2080 | 2080 | 2080 | 2080 | |
| 5° | 2184 | 2086 | 1958 | 2101 | 2184 | 211 |
| 15° | 2386 | 1978 | 1814 | 1987 | 2386 | 682 |
| 25° | 2650 | 1766 | 1878 | 1774 | 2650 | 1233 |
| 35° | 2991 | 1471 | 2007 | 1471 | 2991 | 1893 |
| 45° | 3599 | 1146 | 2311 | 1138 | 3599 | 2809 |
| 55° | 4547 | 811 | 2856 | 807 | 4547 | 4086 |
| 65° | 5386 | 510 | 3345 | 512 | 5386 | 5307 |
| 75° | 5290 | 252 | 3168 | 254 | 5290 | 5531 |
| 85° | 4056 | 56 | 2288 | 62 | 4056 | 3459 |
| 90° | 3368 | 0 | 1839 | 0 | 3368 | 1853 |
| 95° | 2862 | 0 | 1544 | 0 | 2862 | 2272 |
| 105° | 2286 | 0 | 1242 | 2 | 2286 | 2428 |
| 115° | 1895 | 0 | 1076 | 2 | 1895 | 1881 |
| 125° | 1485 | 0 | 865 | 2 | 1485 | 1328 |
| 135° | 980 | 0 | 570 | 2 | 980 | 770 |
| 145° | 570 | 0 | 300 | 2 | 570 | 365 |
| 155° | 252 | 0 | 133 | 4 | 252 | 122 |
| 165° | 35 | 0 | 21 | 4 | 35 | 14 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P201401

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

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 25° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 |
| 2.5° | 2121.9 | 2121.0 | 2120.0 | 2119.1 | 2118.2 | 2117.2 | 2116.3 | 2115.4 | 2114.4 | 2113.5 | 2114.2 |
| 5° | 2184.3 | 2182.0 | 2179.7 | 2177.4 | 2175.1 | 2172.7 | 2170.4 | 2168.1 | 2165.8 | 2163.5 | 2162.6 |
| 7.5° | 2234.2 | 2231.4 | 2228.6 | 2225.9 | 2223.1 | 2220.3 | 2217.5 | 2214.8 | 2212.0 | 2209.2 | 2206.4 |
| 10° | 2280.0 | 2275.8 | 2271.7 | 2267.5 | 2263.3 | 2259.2 | 2255.0 | 2250.8 | 2246.7 | 2242.5 | 2239.3 |
| 12.5° | 2332.0 | 2326.7 | 2321.4 | 2316.0 | 2310.7 | 2305.4 | 2300.1 | 2294.7 | 2289.4 | 2284.1 | 2278.6 |
| 15° | 2386.1 | 2380.1 | 2374.1 | 2368.1 | 2362.1 | 2356.0 | 2350.0 | 2344.0 | 2338.0 | 2332.0 | 2323.0 |
| 17.5° | 2452.6 | 2444.3 | 2436.0 | 2427.6 | 2419.3 | 2411.0 | 2402.7 | 2394.3 | 2386.0 | 2377.7 | 2365.0 |
| 20° | 2521.3 | 2511.1 | 2500.9 | 2490.8 | 2480.6 | 2470.4 | 2460.2 | 2450.1 | 2439.9 | 2429.7 | 2412.4 |
| 22.5° | 2589.9 | 2578.1 | 2566.3 | 2554.5 | 2542.7 | 2531.0 | 2519.2 | 2507.4 | 2495.6 | 2483.8 | 2462.1 |
| 25° | 2650.2 | 2638.2 | 2626.2 | 2614.2 | 2602.2 | 2590.1 | 2578.1 | 2566.1 | 2554.1 | 2542.1 | 2516.4 |
| 27.5° | 2721.0 | 2707.6 | 2694.2 | 2680.8 | 2667.4 | 2653.9 | 2640.5 | 2627.1 | 2613.7 | 2600.3 | 2570.7 |
| 30° | 2797.9 | 2782.4 | 2766.9 | 2751.5 | 2736.0 | 2720.5 | 2705.0 | 2689.6 | 2674.1 | 2658.6 | 2624.6 |
| 32.5° | 2889.5 | 2871.2 | 2853.0 | 2834.7 | 2816.4 | 2798.2 | 2779.9 | 2761.6 | 2743.4 | 2725.1 | 2685.8 |
| 35° | 2991.4 | 2970.1 | 2948.9 | 2927.6 | 2906.3 | 2885.1 | 2863.8 | 2842.5 | 2821.3 | 2800.0 | 2754.9 |
| 37.5° | 3112.1 | 3087.6 | 3063.1 | 3038.6 | 3014.1 | 2989.6 | 2965.1 | 2940.6 | 2916.1 | 2891.6 | 2839.6 |
| 40° | 3251.4 | 3223.0 | 3194.6 | 3166.1 | 3137.7 | 3109.3 | 3080.9 | 3052.4 | 3024.0 | 2995.6 | 2935.7 |
| 42.5° | 3411.6 | 3379.2 | 3346.9 | 3314.5 | 3282.2 | 3249.8 | 3217.5 | 3185.1 | 3152.8 | 3120.4 | 3050.8 |
| 45° | 3598.8 | 3561.4 | 3523.9 | 3486.5 | 3449.0 | 3411.6 | 3374.1 | 3336.7 | 3299.2 | 3261.8 | 3181.6 |
| 47.5° | 3808.9 | 3766.4 | 3723.9 | 3681.3 | 3638.8 | 3596.3 | 3553.8 | 3511.2 | 3468.7 | 3426.2 | 3334.2 |
| 50° | 4041.9 | 3994.5 | 3947.1 | 3899.8 | 3852.4 | 3805.0 | 3757.6 | 3710.3 | 3662.9 | 3615.5 | 3509.4 |
| 52.5° | 4293.6 | 4240.9 | 4188.2 | 4135.5 | 4082.8 | 4030.1 | 3977.4 | 3924.7 | 3872.0 | 3819.3 | 3699.1 |
| 55° | 4547.4 | 4491.5 | 4435.5 | 4379.6 | 4323.7 | 4267.7 | 4211.8 | 4155.9 | 4099.9 | 4044.0 | 3909.2 |
| 57.5° | 4799.1 | 4740.4 | 4681.7 | 4623.0 | 4564.3 | 4505.6 | 4446.9 | 4388.2 | 4329.5 | 4270.8 | 4122.2 |
| 60° | 5034.2 | 4974.1 | 4914.0 | 4853.9 | 4793.8 | 4733.7 | 4673.6 | 4613.5 | 4553.4 | 4493.3 | 4332.2 |
| 62.5° | 5233.9 | 5174.5 | 5115.1 | 5055.7 | 4996.3 | 4936.9 | 4877.5 | 4818.1 | 4758.7 | 4699.3 | 4527.8 |
| 65° | 5385.8 | 5329.6 | 5273.5 | 5217.3 | 5161.1 | 5105.0 | 5048.8 | 4992.6 | 4936.5 | 4880.3 | 4700.2 |
| 67.5° | 5483.5 | 5428.7 | 5373.9 | 5319.2 | 5264.4 | 5209.6 | 5154.8 | 5100.1 | 5045.3 | 4990.5 | 4807.4 |
| 70° | 5504.4 | 5452.6 | 5400.8 | 5349.1 | 5297.3 | 5245.5 | 5193.7 | 5142.0 | 5090.2 | 5038.4 | 4855.6 |
| 72.5° | 5439.9 | 5390.9 | 5341.9 | 5292.9 | 5243.9 | 5194.9 | 5145.9 | 5096.9 | 5047.9 | 4998.9 | 4820.5 |
| 75° | 5290.1 | 5244.1 | 5198.1 | 5152.1 | 5106.1 | 5060.1 | 5014.1 | 4968.1 | 4922.1 | 4876.1 | 4705.5 |
| 77.5° | 5059.2 | 5016.2 | 4973.2 | 4930.2 | 4887.2 | 4844.3 | 4801.3 | 4758.3 | 4715.3 | 4672.3 | 4511.9 |
| 80° | 4761.7 | 4721.5 | 4681.3 | 4641.0 | 4600.8 | 4560.6 | 4520.4 | 4480.1 | 4439.9 | 4399.7 | 4253.2 |
| 82.5° | 4418.5 | 4380.4 | 4342.2 | 4304.1 | 4265.9 | 4227.8 | 4189.6 | 4151.5 | 4113.3 | 4075.2 | 3942.3 |
| 85° | 4056.5 | 4020.4 | 3984.4 | 3948.3 | 3912.3 | 3876.2 | 3840.2 | 3804.1 | 3768.1 | 3732.0 | 3612.5 |
| 87.5° | 3696.6 | 3662.2 | 3627.7 | 3593.3 | 3558.9 | 3524.4 | 3490.0 | 3455.6 | 3421.1 | 3386.7 | 3279.9 |
| 90° | 3367.9 | 3335.5 | 3303.2 | 3270.8 | 3238.5 | 3206.1 | 3173.8 | 3141.4 | 3109.1 | 3076.7 | 2979.9 |
| 92.5° | 3093.3 | 3062.8 | 3032.3 | 3001.8 | 2971.3 | 2940.7 | 2910.2 | 2879.7 | 2849.2 | 2818.7 | 2730.2 |
| 95° | 2862.4 | 2833.3 | 2804.2 | 2775.0 | 2745.9 | 2716.8 | 2687.7 | 2658.5 | 2629.4 | 2600.3 | 2518.0 |
| 97.5° | 2673.1 | 2644.7 | 2616.3 | 2587.8 | 2559.4 | 2531.0 | 2502.6 | 2474.1 | 2445.7 | 2417.3 | 2339.4 |
| 100° | 2519.2 | 2491.2 | 2463.3 | 2435.3 | 2407.3 | 2379.4 | 2351.4 | 2323.4 | 2295.5 | 2267.5 | 2191.9 |
| 102.5° | 2392.3 | 2364.8 | 2337.3 | 2309.8 | 2282.3 | 2254.7 | 2227.2 | 2199.7 | 2172.2 | 2144.7 | 2070.7 |
| 105° | 2286.2 | 2259.4 | 2232.6 | 2205.8 | 2179.0 | 2152.1 | 2125.3 | 2098.5 | 2071.7 | 2044.9 | 1971.4 |
| 107.5° | 2188.4 | 2161.6 | 2134.8 | 2108.0 | 2081.2 | 2054.3 | 2027.5 | 2000.7 | 1973.9 | 1947.1 | 1875.0 |
| 110° | 2092.7 | 2065.9 | 2039.1 | 2012.3 | 1985.5 | 1958.6 | 1931.8 | 1905.0 | 1878.2 | 1851.4 | 1780.9 |



TEST NUMBER: P201401

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

CANDELA DISTRIBUTION (continued):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 25° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1997.0 | 1970.2 | 1943.4 | 1916.6 | 1889.8 | 1862.9 | 1836.1 | 1809.3 | 1782.5 | 1755.7 | 1687.5 |
| 115° | 1895.1 | 1868.5 | 1841.9 | 1815.4 | 1788.8 | 1762.2 | 1735.6 | 1709.1 | 1682.5 | 1655.9 | 1590.7 |
| 117.5° | 1786.9 | 1761.7 | 1736.5 | 1711.3 | 1686.1 | 1661.0 | 1635.8 | 1610.6 | 1585.4 | 1560.2 | 1498.0 |
| 120° | 1687.1 | 1663.1 | 1639.0 | 1615.0 | 1590.9 | 1566.9 | 1542.8 | 1518.8 | 1494.7 | 1470.7 | 1410.4 |
| 122.5° | 1589.3 | 1566.4 | 1543.5 | 1520.7 | 1497.8 | 1474.9 | 1452.0 | 1429.2 | 1406.3 | 1383.4 | 1323.8 |
| 125° | 1485.3 | 1462.9 | 1440.5 | 1418.0 | 1395.6 | 1373.2 | 1350.8 | 1328.3 | 1305.9 | 1283.5 | 1226.4 |
| 127.5° | 1366.7 | 1345.2 | 1323.7 | 1302.2 | 1280.7 | 1259.3 | 1237.8 | 1216.3 | 1194.8 | 1173.3 | 1121.3 |
| 130° | 1233.6 | 1213.5 | 1193.4 | 1173.3 | 1153.2 | 1133.0 | 1112.9 | 1092.8 | 1072.7 | 1052.6 | 1006.8 |
| 132.5° | 1098.4 | 1081.3 | 1064.2 | 1047.1 | 1030.0 | 1012.8 | 995.7 | 978.6 | 961.5 | 944.4 | 903.5 |
| 135° | 979.8 | 965.5 | 951.1 | 936.8 | 922.5 | 908.1 | 893.8 | 879.5 | 865.1 | 850.8 | 813.1 |
| 137.5° | 873.7 | 860.5 | 847.3 | 834.2 | 821.0 | 807.8 | 794.6 | 781.5 | 768.3 | 755.1 | 720.4 |
| 140° | 767.6 | 755.8 | 744.0 | 732.2 | 720.4 | 708.7 | 696.9 | 685.1 | 673.3 | 661.5 | 630.5 |
| 142.5° | 665.7 | 655.5 | 645.4 | 635.2 | 625.0 | 614.9 | 604.7 | 594.5 | 584.4 | 574.2 | 546.7 |
| 145° | 570.0 | 560.8 | 551.5 | 542.3 | 533.0 | 523.8 | 514.5 | 505.3 | 496.0 | 486.8 | 463.2 |
| 147.5° | 478.5 | 471.1 | 463.7 | 456.3 | 448.9 | 441.5 | 434.1 | 426.7 | 419.3 | 411.9 | 391.3 |
| 150° | 397.3 | 390.8 | 384.4 | 377.9 | 371.4 | 365.0 | 358.5 | 352.0 | 345.6 | 339.1 | 321.3 |
| 152.5° | 322.4 | 316.9 | 311.3 | 305.8 | 300.2 | 294.7 | 289.1 | 283.6 | 278.0 | 272.5 | 257.2 |
| 155° | 251.7 | 247.1 | 242.5 | 237.8 | 233.2 | 228.6 | 224.0 | 219.3 | 214.7 | 210.1 | 196.9 |
| 157.5° | 187.2 | 183.5 | 179.8 | 176.1 | 172.4 | 168.7 | 165.0 | 161.3 | 157.6 | 153.9 | 143.0 |
| 160° | 126.9 | 123.9 | 120.9 | 117.9 | 114.9 | 111.9 | 108.9 | 105.9 | 102.9 | 99.9 | 92.3 |
| 162.5° | 72.8 | 70.7 | 68.6 | 66.6 | 64.5 | 62.4 | 60.3 | 58.3 | 56.2 | 54.1 | 49.7 |
| 165° | 35.4 | 34.2 | 33.1 | 31.9 | 30.8 | 29.6 | 28.5 | 27.3 | 26.2 | 25.0 | 22.7 |
| 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: P201401

CATALOG NUMBER: 8LBLED-LD4-16-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° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 |
| 2.5° | 2114.9 | 2115.6 | 2116.3 | 2117.0 | 2117.7 | 2118.4 | 2119.1 | 2119.8 | 2115.6 | 2111.5 | 2107.3 |
| 5° | 2161.6 | 2160.7 | 2159.8 | 2158.8 | 2157.9 | 2157.0 | 2156.0 | 2155.1 | 2148.6 | 2142.2 | 2135.7 |
| 7.5° | 2203.7 | 2200.9 | 2198.1 | 2195.4 | 2192.6 | 2189.8 | 2187.1 | 2184.3 | 2175.5 | 2166.7 | 2157.9 |
| 10° | 2236.0 | 2232.8 | 2229.6 | 2226.3 | 2223.1 | 2219.9 | 2216.6 | 2213.4 | 2201.4 | 2189.4 | 2177.3 |
| 12.5° | 2273.0 | 2267.5 | 2261.9 | 2256.4 | 2250.8 | 2245.3 | 2239.7 | 2234.2 | 2219.2 | 2204.2 | 2189.1 |
| 15° | 2314.0 | 2304.9 | 2295.9 | 2286.9 | 2277.9 | 2268.8 | 2259.8 | 2250.8 | 2232.8 | 2214.8 | 2196.7 |
| 17.5° | 2352.3 | 2339.6 | 2326.9 | 2314.1 | 2301.4 | 2288.7 | 2276.0 | 2263.3 | 2241.8 | 2220.3 | 2198.8 |
| 20° | 2395.0 | 2377.7 | 2360.4 | 2343.0 | 2325.7 | 2308.4 | 2291.0 | 2273.7 | 2248.5 | 2223.3 | 2198.1 |
| 22.5° | 2440.4 | 2418.6 | 2396.9 | 2375.2 | 2353.5 | 2331.7 | 2310.0 | 2288.3 | 2258.2 | 2228.2 | 2198.1 |
| 25° | 2490.8 | 2465.1 | 2439.5 | 2413.8 | 2388.2 | 2362.5 | 2336.9 | 2311.2 | 2275.1 | 2239.1 | 2203.0 |
| 27.5° | 2541.1 | 2511.5 | 2481.9 | 2452.4 | 2422.8 | 2393.2 | 2363.6 | 2334.0 | 2291.2 | 2248.5 | 2205.7 |
| 30° | 2590.6 | 2556.7 | 2522.7 | 2488.7 | 2454.7 | 2420.8 | 2386.8 | 2352.8 | 2303.1 | 2253.4 | 2203.7 |
| 32.5° | 2646.5 | 2607.2 | 2567.9 | 2528.7 | 2489.4 | 2450.1 | 2410.8 | 2371.5 | 2315.6 | 2259.6 | 2203.7 |
| 35° | 2709.9 | 2664.8 | 2619.7 | 2574.7 | 2529.6 | 2484.5 | 2439.5 | 2394.4 | 2331.1 | 2267.7 | 2204.4 |
| 37.5° | 2787.6 | 2735.6 | 2683.6 | 2631.5 | 2579.5 | 2527.5 | 2475.5 | 2423.5 | 2352.8 | 2282.0 | 2211.3 |
| 40° | 2875.9 | 2816.0 | 2756.1 | 2696.3 | 2636.4 | 2576.5 | 2516.7 | 2456.8 | 2378.9 | 2301.0 | 2223.1 |
| 42.5° | 2981.2 | 2911.7 | 2842.1 | 2772.5 | 2702.9 | 2633.4 | 2563.8 | 2494.2 | 2408.5 | 2322.7 | 2237.0 |
| 45° | 3101.4 | 3021.2 | 2941.0 | 2860.8 | 2780.6 | 2700.4 | 2620.2 | 2540.0 | 2445.5 | 2350.9 | 2256.4 |
| 47.5° | 3242.2 | 3150.2 | 3058.2 | 2966.2 | 2874.2 | 2782.2 | 2690.2 | 2598.2 | 2493.5 | 2388.8 | 2284.1 |
| 50° | 3403.3 | 3297.2 | 3191.1 | 3085.0 | 2978.9 | 2872.8 | 2766.7 | 2660.6 | 2545.5 | 2430.4 | 2315.3 |
| 52.5° | 3578.9 | 3458.7 | 3338.5 | 3218.4 | 3098.2 | 2978.0 | 2857.8 | 2737.6 | 2610.5 | 2483.4 | 2356.2 |
| 55° | 3774.5 | 3639.7 | 3505.0 | 3370.2 | 3235.5 | 3100.7 | 2966.0 | 2831.2 | 2690.9 | 2550.6 | 2410.3 |
| 57.5° | 3973.6 | 3824.9 | 3676.3 | 3527.7 | 3379.1 | 3230.4 | 3081.8 | 2933.2 | 2779.0 | 2624.8 | 2470.7 |
| 60° | 4171.1 | 4010.0 | 3848.9 | 3687.8 | 3526.7 | 3365.6 | 3204.5 | 3043.4 | 2874.9 | 2706.4 | 2537.9 |
| 62.5° | 4356.3 | 4184.8 | 4013.3 | 3841.7 | 3670.2 | 3498.7 | 3327.2 | 3155.7 | 2972.9 | 2790.1 | 2607.2 |
| 65° | 4520.2 | 4340.1 | 4160.1 | 3980.0 | 3800.0 | 3619.9 | 3439.9 | 3259.8 | 3062.9 | 2865.9 | 2669.0 |
| 67.5° | 4624.4 | 4441.3 | 4258.3 | 4075.2 | 3892.2 | 3709.1 | 3526.1 | 3343.0 | 3134.0 | 2925.1 | 2716.1 |
| 70° | 4672.7 | 4489.9 | 4307.1 | 4124.2 | 3941.4 | 3758.6 | 3575.7 | 3392.9 | 3174.9 | 2957.0 | 2739.0 |
| 72.5° | 4642.0 | 4463.6 | 4285.1 | 4106.7 | 3928.2 | 3749.8 | 3571.3 | 3392.9 | 3170.8 | 2948.7 | 2726.5 |
| 75° | 4534.9 | 4364.4 | 4193.8 | 4023.2 | 3852.6 | 3682.1 | 3511.5 | 3340.9 | 3119.2 | 2897.6 | 2675.9 |
| 77.5° | 4351.5 | 4191.1 | 4030.7 | 3870.2 | 3709.8 | 3549.4 | 3389.0 | 3228.6 | 3012.9 | 2797.3 | 2581.6 |
| 80° | 4106.6 | 3960.1 | 3813.6 | 3667.0 | 3520.5 | 3374.0 | 3227.4 | 3080.9 | 2874.5 | 2668.1 | 2461.7 |
| 82.5° | 3809.4 | 3676.5 | 3543.6 | 3410.7 | 3277.8 | 3144.9 | 3012.0 | 2879.1 | 2686.8 | 2494.5 | 2302.2 |
| 85° | 3493.0 | 3373.5 | 3254.0 | 3134.5 | 3015.0 | 2895.5 | 2776.0 | 2656.5 | 2479.9 | 2303.3 | 2126.7 |
| 87.5° | 3173.1 | 3066.3 | 2959.5 | 2852.8 | 2746.0 | 2639.2 | 2532.4 | 2425.6 | 2265.4 | 2105.2 | 1945.1 |
| 90° | 2883.0 | 2786.2 | 2689.3 | 2592.5 | 2495.6 | 2398.8 | 2301.9 | 2205.1 | 2060.2 | 1915.3 | 1770.3 |
| 92.5° | 2641.7 | 2553.1 | 2464.6 | 2376.1 | 2287.6 | 2199.0 | 2110.5 | 2022.0 | 1890.3 | 1758.5 | 1626.8 |
| 95° | 2435.7 | 2353.4 | 2271.1 | 2188.9 | 2106.6 | 2024.3 | 1942.0 | 1859.7 | 1738.8 | 1617.9 | 1497.1 |
| 97.5° | 2261.5 | 2183.6 | 2105.7 | 2027.8 | 1949.9 | 1872.0 | 1794.1 | 1716.2 | 1604.3 | 1492.5 | 1380.6 |
| 100° | 2116.3 | 2040.7 | 1965.1 | 1889.6 | 1814.0 | 1738.4 | 1662.8 | 1587.2 | 1483.2 | 1379.2 | 1275.2 |
| 102.5° | 1996.8 | 1922.8 | 1848.9 | 1774.9 | 1701.0 | 1627.0 | 1553.1 | 1479.1 | 1380.6 | 1282.2 | 1183.7 |
| 105° | 1897.9 | 1824.4 | 1750.9 | 1677.4 | 1603.9 | 1530.4 | 1456.9 | 1383.4 | 1289.6 | 1195.7 | 1101.9 |
| 107.5° | 1802.9 | 1730.8 | 1658.7 | 1586.5 | 1514.4 | 1442.3 | 1370.2 | 1298.1 | 1208.0 | 1117.8 | 1027.7 |
| 110° | 1710.4 | 1639.9 | 1569.4 | 1498.9 | 1428.4 | 1357.9 | 1287.4 | 1216.9 | 1130.5 | 1044.0 | 957.6 |



TEST NUMBER: P201401

CATALOG NUMBER: 8LBLED-LD4-16-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° | 1619.3 | 1551.2 | 1483.0 | 1414.8 | 1346.6 | 1278.5 | 1210.3 | 1142.1 | 1059.3 | 976.6 | 893.8 |
| 115° | 1525.5 | 1460.4 | 1395.2 | 1330.0 | 1264.8 | 1199.7 | 1134.5 | 1069.3 | 990.5 | 911.7 | 832.8 |
| 117.5° | 1435.8 | 1373.7 | 1311.5 | 1249.3 | 1187.1 | 1125.0 | 1062.8 | 1000.6 | 925.7 | 850.8 | 775.9 |
| 120° | 1350.1 | 1289.7 | 1229.4 | 1169.1 | 1108.8 | 1048.4 | 988.1 | 927.8 | 857.5 | 787.3 | 717.0 |
| 122.5° | 1264.1 | 1204.5 | 1144.9 | 1085.2 | 1025.6 | 966.0 | 906.3 | 846.7 | 782.0 | 717.3 | 652.5 |
| 125° | 1169.3 | 1112.2 | 1055.1 | 998.1 | 941.0 | 883.9 | 826.8 | 769.7 | 710.3 | 650.9 | 591.5 |
| 127.5° | 1069.3 | 1017.3 | 965.3 | 913.2 | 861.2 | 809.2 | 757.2 | 705.2 | 649.7 | 594.2 | 538.8 |
| 130° | 961.1 | 915.3 | 869.5 | 823.8 | 778.0 | 732.2 | 686.5 | 640.7 | 589.4 | 538.1 | 486.8 |
| 132.5° | 862.6 | 821.7 | 780.8 | 739.8 | 698.9 | 658.0 | 617.1 | 576.2 | 529.1 | 481.9 | 434.8 |
| 135° | 775.4 | 737.8 | 700.1 | 662.4 | 624.7 | 587.1 | 549.4 | 511.7 | 468.9 | 426.2 | 383.4 |
| 137.5° | 685.8 | 651.1 | 616.4 | 581.8 | 547.1 | 512.4 | 477.8 | 443.1 | 405.2 | 367.3 | 329.4 |
| 140° | 599.6 | 568.6 | 537.6 | 506.7 | 475.7 | 444.7 | 413.8 | 382.8 | 348.6 | 314.4 | 280.2 |
| 142.5° | 519.2 | 491.7 | 464.2 | 436.6 | 409.1 | 381.6 | 354.1 | 326.6 | 296.3 | 266.0 | 235.8 |
| 145° | 439.6 | 416.1 | 392.5 | 368.9 | 345.3 | 321.8 | 298.2 | 274.6 | 248.0 | 221.4 | 194.9 |
| 147.5° | 370.7 | 350.2 | 329.6 | 309.0 | 288.4 | 267.9 | 247.3 | 226.7 | 204.1 | 181.4 | 158.8 |
| 150° | 303.5 | 285.7 | 267.9 | 250.1 | 232.3 | 214.5 | 196.7 | 178.9 | 160.6 | 142.4 | 124.1 |
| 152.5° | 242.0 | 226.7 | 211.5 | 196.2 | 181.0 | 165.7 | 150.5 | 135.2 | 121.1 | 107.0 | 92.9 |
| 155° | 183.7 | 170.6 | 157.4 | 144.2 | 131.0 | 117.9 | 104.7 | 91.5 | 81.6 | 71.6 | 61.7 |
| 157.5° | 132.2 | 121.3 | 110.5 | 99.6 | 88.8 | 77.9 | 67.1 | 56.2 | 50.0 | 43.7 | 37.5 |
| 160° | 84.6 | 77.0 | 69.4 | 61.7 | 54.1 | 46.5 | 38.8 | 31.2 | 27.7 | 24.3 | 20.8 |
| 162.5° | 45.3 | 40.9 | 36.5 | 32.2 | 27.8 | 23.4 | 19.0 | 14.6 | 13.0 | 11.4 | 9.7 |
| 165° | 20.4 | 18.1 | 15.8 | 13.4 | 11.1 | 8.8 | 6.5 | 4.2 | 3.7 | 3.3 | 2.8 |
| 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: P201401

CATALOG NUMBER: 8LBLELD4-16-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° | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 |
| 2.5° | 2103.1 | 2099.0 | 2094.8 | 2090.6 | 2086.5 | 2082.3 | 2083.7 | 2085.1 | 2086.5 | 2087.9 | 2089.2 |
| 5° | 2129.2 | 2122.8 | 2116.3 | 2109.8 | 2103.4 | 2096.9 | 2095.7 | 2094.6 | 2093.4 | 2092.3 | 2091.1 |
| 7.5° | 2149.1 | 2140.4 | 2131.6 | 2122.8 | 2114.0 | 2105.2 | 2101.5 | 2097.8 | 2094.1 | 2090.4 | 2086.7 |
| 10° | 2165.3 | 2153.3 | 2141.3 | 2129.2 | 2117.2 | 2105.2 | 2098.5 | 2091.8 | 2085.1 | 2078.4 | 2071.7 |
| 12.5° | 2174.1 | 2159.1 | 2144.1 | 2129.0 | 2114.0 | 2099.0 | 2089.5 | 2080.0 | 2070.6 | 2061.1 | 2051.6 |
| 15° | 2178.7 | 2160.7 | 2142.7 | 2124.6 | 2106.6 | 2088.6 | 2076.3 | 2064.1 | 2051.8 | 2039.6 | 2027.3 |
| 17.5° | 2177.3 | 2155.9 | 2134.4 | 2112.9 | 2091.4 | 2069.9 | 2054.9 | 2039.8 | 2024.8 | 2009.8 | 1994.7 |
| 20° | 2172.9 | 2147.8 | 2122.6 | 2097.4 | 2072.2 | 2047.0 | 2029.0 | 2010.9 | 1992.9 | 1974.9 | 1956.8 |
| 22.5° | 2168.1 | 2138.0 | 2108.0 | 2077.9 | 2047.9 | 2017.8 | 1996.5 | 1975.3 | 1954.0 | 1932.8 | 1911.5 |
| 25° | 2166.9 | 2130.9 | 2094.8 | 2058.7 | 2022.7 | 1986.6 | 1962.1 | 1937.6 | 1913.1 | 1888.6 | 1864.1 |
| 27.5° | 2163.0 | 2120.2 | 2077.5 | 2034.7 | 1992.0 | 1949.2 | 1921.5 | 1893.7 | 1866.0 | 1838.3 | 1810.5 |
| 30° | 2154.0 | 2104.3 | 2054.6 | 2004.9 | 1955.2 | 1905.5 | 1874.5 | 1843.6 | 1812.6 | 1781.6 | 1750.7 |
| 32.5° | 2147.8 | 2091.8 | 2035.9 | 1980.0 | 1924.0 | 1868.1 | 1833.0 | 1797.8 | 1762.7 | 1727.6 | 1692.4 |
| 35° | 2141.1 | 2077.7 | 2014.4 | 1951.1 | 1887.7 | 1824.4 | 1785.1 | 1745.8 | 1706.5 | 1667.2 | 1627.9 |
| 37.5° | 2140.6 | 2069.8 | 1999.1 | 1928.4 | 1857.6 | 1786.9 | 1743.5 | 1700.0 | 1656.6 | 1613.1 | 1569.7 |
| 40° | 2145.2 | 2067.3 | 1989.4 | 1911.5 | 1833.6 | 1755.7 | 1705.8 | 1655.9 | 1605.9 | 1556.0 | 1506.1 |
| 42.5° | 2151.2 | 2065.5 | 1979.7 | 1894.0 | 1808.2 | 1722.5 | 1666.8 | 1611.1 | 1555.4 | 1499.7 | 1443.9 |
| 45° | 2161.9 | 2067.3 | 1972.8 | 1878.3 | 1783.7 | 1689.2 | 1628.9 | 1568.5 | 1508.2 | 1447.9 | 1387.5 |
| 47.5° | 2179.4 | 2074.7 | 1970.0 | 1865.3 | 1760.6 | 1655.9 | 1589.6 | 1523.2 | 1456.9 | 1390.5 | 1324.2 |
| 50° | 2200.2 | 2085.1 | 1970.0 | 1854.9 | 1739.8 | 1624.7 | 1552.4 | 1480.0 | 1407.7 | 1335.3 | 1263.0 |
| 52.5° | 2229.1 | 2102.0 | 1974.9 | 1847.7 | 1720.6 | 1593.5 | 1515.6 | 1437.7 | 1359.8 | 1281.9 | 1204.0 |
| 55° | 2270.0 | 2129.7 | 1989.4 | 1849.1 | 1708.8 | 1568.5 | 1484.4 | 1400.2 | 1316.1 | 1232.0 | 1147.8 |
| 57.5° | 2316.5 | 2162.3 | 2008.1 | 1854.0 | 1699.8 | 1545.6 | 1455.2 | 1364.8 | 1274.5 | 1184.1 | 1093.7 |
| 60° | 2369.4 | 2200.9 | 2032.4 | 1863.9 | 1695.4 | 1526.9 | 1430.1 | 1333.2 | 1236.4 | 1139.5 | 1042.7 |
| 62.5° | 2424.4 | 2241.6 | 2058.8 | 1875.9 | 1693.1 | 1510.3 | 1407.2 | 1304.1 | 1201.0 | 1097.9 | 994.9 |
| 65° | 2472.1 | 2275.1 | 2078.2 | 1881.3 | 1684.3 | 1487.4 | 1378.8 | 1270.1 | 1161.5 | 1052.9 | 944.2 |
| 67.5° | 2507.2 | 2298.2 | 2089.3 | 1880.3 | 1671.4 | 1462.4 | 1348.5 | 1234.5 | 1120.6 | 1006.6 | 892.7 |
| 70° | 2521.0 | 2303.1 | 2085.1 | 1867.1 | 1649.2 | 1431.2 | 1313.6 | 1195.9 | 1078.3 | 960.6 | 843.0 |
| 72.5° | 2504.4 | 2282.3 | 2060.2 | 1838.0 | 1615.9 | 1393.8 | 1273.4 | 1153.0 | 1032.5 | 912.1 | 791.7 |
| 75° | 2454.2 | 2232.6 | 2010.9 | 1789.2 | 1567.6 | 1345.9 | 1224.3 | 1102.7 | 981.2 | 859.6 | 738.0 |
| 77.5° | 2366.0 | 2150.3 | 1934.7 | 1719.0 | 1503.4 | 1287.7 | 1166.3 | 1045.0 | 923.6 | 802.3 | 680.9 |
| 80° | 2255.3 | 2048.8 | 1842.4 | 1636.0 | 1429.6 | 1223.2 | 1103.2 | 983.3 | 863.3 | 743.3 | 623.4 |
| 82.5° | 2109.9 | 1917.5 | 1725.2 | 1532.9 | 1340.6 | 1148.3 | 1031.6 | 914.9 | 798.1 | 681.4 | 564.7 |
| 85° | 1950.1 | 1773.6 | 1597.0 | 1420.4 | 1243.8 | 1067.2 | 954.9 | 842.5 | 730.2 | 617.9 | 505.5 |
| 87.5° | 1784.9 | 1624.7 | 1464.5 | 1304.4 | 1144.2 | 984.0 | 877.0 | 770.0 | 662.9 | 555.9 | 448.9 |
| 90° | 1625.4 | 1480.5 | 1335.6 | 1190.6 | 1045.7 | 900.8 | 800.7 | 700.6 | 600.5 | 500.4 | 400.4 |
| 92.5° | 1495.0 | 1363.3 | 1231.5 | 1099.8 | 968.0 | 836.3 | 743.4 | 650.5 | 557.5 | 464.6 | 371.7 |
| 95° | 1376.2 | 1255.3 | 1134.4 | 1013.6 | 892.7 | 771.8 | 686.0 | 600.3 | 514.5 | 428.8 | 343.0 |
| 97.5° | 1268.7 | 1156.9 | 1045.0 | 933.1 | 821.3 | 709.4 | 630.6 | 551.8 | 472.9 | 394.1 | 315.3 |
| 100° | 1171.2 | 1067.1 | 963.1 | 859.1 | 755.1 | 651.1 | 578.8 | 506.4 | 434.1 | 361.7 | 289.4 |
| 102.5° | 1085.2 | 986.8 | 888.3 | 789.8 | 691.4 | 592.9 | 527.0 | 461.1 | 395.3 | 329.4 | 263.5 |
| 105° | 1008.0 | 914.2 | 820.3 | 726.5 | 632.6 | 538.8 | 478.9 | 419.1 | 359.2 | 299.3 | 239.5 |
| 107.5° | 937.5 | 847.4 | 757.2 | 667.1 | 576.9 | 486.8 | 432.7 | 378.6 | 324.5 | 270.4 | 216.4 |
| 110° | 871.1 | 784.7 | 698.2 | 611.8 | 525.3 | 438.9 | 390.1 | 341.4 | 292.6 | 243.8 | 195.1 |



TEST NUMBER: P201401

CATALOG NUMBER: 8LBLED-LD4-16-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° | 811.1 | 728.3 | 645.6 | 562.8 | 480.1 | 397.3 | 353.2 | 309.0 | 264.9 | 220.7 | 176.6 |
| 115° | 754.0 | 675.2 | 596.4 | 517.5 | 438.7 | 359.9 | 319.9 | 279.9 | 239.9 | 199.9 | 160.0 |
| 117.5° | 701.0 | 626.2 | 551.3 | 476.4 | 401.5 | 326.6 | 290.3 | 254.0 | 217.7 | 181.4 | 145.2 |
| 120° | 646.7 | 576.5 | 506.2 | 435.9 | 365.7 | 295.4 | 262.6 | 229.8 | 196.9 | 164.1 | 131.3 |
| 122.5° | 587.8 | 523.1 | 458.4 | 393.6 | 328.9 | 264.2 | 234.8 | 205.5 | 176.1 | 146.8 | 117.4 |
| 125° | 532.1 | 472.7 | 413.3 | 353.9 | 294.5 | 235.1 | 209.0 | 182.9 | 156.7 | 130.6 | 104.5 |
| 127.5° | 483.3 | 427.8 | 372.3 | 316.9 | 261.4 | 205.9 | 183.0 | 160.1 | 137.3 | 114.4 | 91.5 |
| 130° | 435.5 | 384.1 | 332.8 | 281.5 | 230.2 | 178.9 | 159.0 | 139.1 | 119.3 | 99.4 | 79.5 |
| 132.5° | 387.6 | 340.5 | 293.3 | 246.2 | 199.0 | 151.9 | 135.0 | 118.1 | 101.3 | 84.4 | 67.5 |
| 135° | 340.7 | 297.9 | 255.2 | 212.4 | 169.7 | 126.9 | 112.8 | 98.7 | 84.6 | 70.5 | 56.4 |
| 137.5° | 291.5 | 253.5 | 215.6 | 177.7 | 139.8 | 101.9 | 90.6 | 79.3 | 67.9 | 56.6 | 45.3 |
| 140° | 246.0 | 211.7 | 177.5 | 143.3 | 109.1 | 74.9 | 66.6 | 58.3 | 49.9 | 41.6 | 33.3 |
| 142.5° | 205.5 | 175.2 | 144.9 | 114.7 | 84.4 | 54.1 | 48.1 | 42.1 | 36.1 | 30.1 | 24.0 |
| 145° | 168.3 | 141.7 | 115.1 | 88.6 | 62.0 | 35.4 | 31.5 | 27.5 | 23.6 | 19.7 | 15.7 |
| 147.5° | 136.1 | 113.5 | 90.8 | 68.2 | 45.5 | 22.9 | 20.4 | 17.8 | 15.3 | 12.7 | 10.2 |
| 150° | 105.9 | 87.6 | 69.4 | 51.1 | 32.9 | 14.6 | 13.0 | 11.4 | 9.7 | 8.1 | 6.5 |
| 152.5° | 78.8 | 64.7 | 50.6 | 36.5 | 22.4 | 8.3 | 7.4 | 6.5 | 5.5 | 4.6 | 3.7 |
| 155° | 51.8 | 41.8 | 31.9 | 22.0 | 12.0 | 2.1 | 1.9 | 1.6 | 1.4 | 1.2 | 0.9 |
| 157.5° | 31.2 | 25.0 | 18.7 | 12.5 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 17.3 | 13.9 | 10.4 | 6.9 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 8.1 | 6.5 | 4.9 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 2.3 | 1.9 | 1.4 | 0.9 | 0.5 | 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: P201401

CATALOG NUMBER: 8LBLED-LD4-16-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° | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 |
| 2.5° | 2090.6 | 2092.0 | 2093.4 | 2094.8 | 2089.7 | 2084.6 | 2079.6 | 2074.5 | 2069.4 | 2064.3 | 2059.3 |
| 5° | 2090.0 | 2088.8 | 2087.7 | 2086.5 | 2079.3 | 2072.2 | 2065.0 | 2057.8 | 2050.7 | 2043.5 | 2036.3 |
| 7.5° | 2083.0 | 2079.3 | 2075.6 | 2071.9 | 2062.4 | 2052.9 | 2043.5 | 2034.0 | 2024.5 | 2015.0 | 2005.6 |
| 10° | 2065.0 | 2058.3 | 2051.6 | 2044.9 | 2034.3 | 2023.6 | 2013.0 | 2002.4 | 1991.7 | 1981.1 | 1970.5 |
| 12.5° | 2042.1 | 2032.7 | 2023.2 | 2013.7 | 2001.9 | 1990.1 | 1978.3 | 1966.5 | 1954.8 | 1943.0 | 1931.2 |
| 15° | 2015.1 | 2002.8 | 1990.6 | 1978.3 | 1965.1 | 1951.9 | 1938.8 | 1925.6 | 1912.4 | 1899.2 | 1886.1 |
| 17.5° | 1979.7 | 1964.7 | 1949.6 | 1934.6 | 1920.7 | 1906.9 | 1893.0 | 1879.1 | 1865.3 | 1851.4 | 1837.5 |
| 20° | 1938.8 | 1920.8 | 1902.7 | 1884.7 | 1870.4 | 1856.0 | 1841.7 | 1827.4 | 1813.0 | 1798.7 | 1784.4 |
| 22.5° | 1890.3 | 1869.0 | 1847.8 | 1826.5 | 1812.4 | 1798.3 | 1784.2 | 1770.1 | 1756.0 | 1741.9 | 1727.8 |
| 25° | 1839.6 | 1815.1 | 1790.6 | 1766.1 | 1752.0 | 1737.9 | 1723.8 | 1709.7 | 1695.6 | 1681.5 | 1667.4 |
| 27.5° | 1782.8 | 1755.1 | 1727.3 | 1699.6 | 1686.2 | 1672.8 | 1659.4 | 1646.0 | 1632.5 | 1619.1 | 1605.7 |
| 30° | 1719.7 | 1688.7 | 1657.8 | 1626.8 | 1614.5 | 1602.3 | 1590.0 | 1577.8 | 1565.5 | 1553.3 | 1541.0 |
| 32.5° | 1657.3 | 1622.2 | 1587.0 | 1551.9 | 1541.0 | 1530.2 | 1519.3 | 1508.4 | 1497.6 | 1486.7 | 1475.8 |
| 35° | 1588.6 | 1549.3 | 1510.0 | 1470.7 | 1462.4 | 1454.1 | 1445.8 | 1437.5 | 1429.1 | 1420.8 | 1412.5 |
| 37.5° | 1526.2 | 1482.8 | 1439.3 | 1395.9 | 1390.8 | 1385.7 | 1380.6 | 1375.5 | 1370.5 | 1365.4 | 1360.3 |
| 40° | 1456.2 | 1406.2 | 1356.3 | 1306.4 | 1306.2 | 1305.9 | 1305.7 | 1305.5 | 1305.2 | 1305.0 | 1304.8 |
| 42.5° | 1388.2 | 1332.5 | 1276.8 | 1221.1 | 1226.0 | 1230.8 | 1235.7 | 1240.5 | 1245.4 | 1250.2 | 1255.1 |
| 45° | 1327.2 | 1266.9 | 1206.5 | 1146.2 | 1155.0 | 1163.8 | 1172.6 | 1181.4 | 1190.1 | 1198.9 | 1207.7 |
| 47.5° | 1257.8 | 1191.5 | 1125.1 | 1058.8 | 1073.1 | 1087.5 | 1101.8 | 1116.1 | 1130.5 | 1144.8 | 1159.1 |
| 50° | 1190.6 | 1118.3 | 1045.9 | 973.6 | 993.5 | 1013.4 | 1033.2 | 1053.1 | 1073.0 | 1092.9 | 1112.7 |
| 52.5° | 1126.1 | 1048.2 | 970.3 | 892.4 | 917.4 | 942.3 | 967.3 | 992.3 | 1017.2 | 1042.2 | 1067.2 |
| 55° | 1063.7 | 979.6 | 895.4 | 811.3 | 841.6 | 871.9 | 902.1 | 932.4 | 962.7 | 993.0 | 1023.2 |
| 57.5° | 1003.3 | 913.0 | 822.6 | 732.2 | 767.8 | 803.4 | 839.0 | 874.6 | 910.2 | 945.8 | 981.4 |
| 60° | 945.8 | 849.0 | 752.1 | 655.3 | 696.2 | 737.1 | 778.0 | 818.9 | 859.9 | 900.8 | 941.7 |
| 62.5° | 891.8 | 788.7 | 685.6 | 582.5 | 628.0 | 673.6 | 719.1 | 764.6 | 810.2 | 855.7 | 901.2 |
| 65° | 835.6 | 727.0 | 618.3 | 509.7 | 559.9 | 610.0 | 660.2 | 710.3 | 760.5 | 810.6 | 860.8 |
| 67.5° | 778.7 | 664.8 | 550.8 | 436.9 | 491.4 | 546.0 | 600.5 | 655.1 | 709.6 | 764.2 | 818.7 |
| 70° | 725.3 | 607.7 | 490.0 | 372.4 | 429.9 | 487.5 | 545.0 | 602.6 | 660.1 | 717.7 | 775.2 |
| 72.5° | 671.3 | 550.8 | 430.4 | 310.0 | 369.9 | 429.7 | 489.6 | 549.4 | 609.3 | 669.1 | 729.0 |
| 75° | 616.4 | 494.9 | 373.3 | 251.7 | 313.0 | 374.2 | 435.5 | 496.7 | 558.0 | 619.2 | 680.5 |
| 77.5° | 559.6 | 438.2 | 316.9 | 195.5 | 257.5 | 319.4 | 381.4 | 443.3 | 505.3 | 567.2 | 629.2 |
| 80° | 503.4 | 383.4 | 263.5 | 143.5 | 205.2 | 266.9 | 328.7 | 390.4 | 452.1 | 513.8 | 575.6 |
| 82.5° | 448.0 | 331.2 | 214.5 | 97.8 | 158.4 | 218.9 | 279.5 | 340.0 | 400.6 | 461.1 | 521.7 |
| 85° | 393.2 | 280.9 | 168.5 | 56.2 | 115.4 | 174.5 | 233.7 | 292.9 | 352.0 | 411.2 | 470.4 |
| 87.5° | 341.9 | 234.8 | 127.8 | 20.8 | 77.2 | 133.6 | 190.0 | 246.4 | 302.8 | 359.2 | 415.6 |
| 90° | 300.3 | 200.2 | 100.1 | 0.0 | 52.9 | 105.9 | 158.8 | 211.7 | 264.7 | 317.6 | 370.5 |
| 92.5° | 278.8 | 185.8 | 92.9 | 0.0 | 49.0 | 98.0 | 147.0 | 196.0 | 245.0 | 294.0 | 343.0 |
| 95° | 257.3 | 171.5 | 85.8 | 0.0 | 45.3 | 90.6 | 135.9 | 181.2 | 226.5 | 271.8 | 317.1 |
| 97.5° | 236.5 | 157.6 | 78.8 | 0.0 | 42.1 | 84.1 | 126.2 | 168.3 | 210.3 | 252.4 | 294.5 |
| 100° | 217.0 | 144.7 | 72.3 | 0.0 | 38.6 | 77.2 | 115.8 | 154.4 | 193.0 | 231.6 | 270.2 |
| 102.5° | 197.6 | 131.8 | 65.9 | 0.0 | 35.6 | 71.2 | 106.8 | 142.4 | 178.0 | 213.6 | 249.2 |
| 105° | 179.6 | 119.7 | 59.9 | 0.0 | 32.6 | 65.2 | 97.8 | 130.4 | 162.9 | 195.5 | 228.1 |
| 107.5° | 162.3 | 108.2 | 54.1 | 0.0 | 29.8 | 59.6 | 89.5 | 119.3 | 149.1 | 178.9 | 208.8 |
| 110° | 146.3 | 97.5 | 48.8 | 0.0 | 27.0 | 54.1 | 81.1 | 108.2 | 135.2 | 162.3 | 189.3 |



TEST NUMBER: P201401

CATALOG NUMBER: 8LBLED-LD4-16-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° | 132.4 | 88.3 | 44.1 | 0.0 | 24.5 | 49.0 | 73.5 | 98.0 | 122.5 | 147.0 | 171.5 |
| 115° | 120.0 | 80.0 | 40.0 | 0.0 | 21.7 | 43.4 | 65.2 | 86.9 | 108.6 | 130.3 | 152.1 |
| 117.5° | 108.9 | 72.6 | 36.3 | 0.0 | 19.4 | 38.8 | 58.2 | 77.6 | 97.1 | 116.5 | 135.9 |
| 120° | 98.5 | 65.6 | 32.8 | 0.0 | 17.3 | 34.7 | 52.0 | 69.3 | 86.7 | 104.0 | 121.3 |
| 122.5° | 88.1 | 58.7 | 29.4 | 0.0 | 15.5 | 31.0 | 46.5 | 62.0 | 77.4 | 92.9 | 108.4 |
| 125° | 78.4 | 52.2 | 26.1 | 0.0 | 13.6 | 27.3 | 40.9 | 54.5 | 68.2 | 81.8 | 95.4 |
| 127.5° | 68.6 | 45.8 | 22.9 | 0.0 | 11.6 | 23.1 | 34.7 | 46.2 | 57.8 | 69.3 | 80.9 |
| 130° | 59.6 | 39.8 | 19.9 | 0.0 | 9.7 | 19.4 | 29.1 | 38.8 | 48.6 | 58.3 | 68.0 |
| 132.5° | 50.6 | 33.8 | 16.9 | 0.0 | 7.9 | 15.7 | 23.6 | 31.4 | 39.3 | 47.1 | 55.0 |
| 135° | 42.3 | 28.2 | 14.1 | 0.0 | 6.2 | 12.5 | 18.7 | 25.0 | 31.2 | 37.5 | 43.7 |
| 137.5° | 34.0 | 22.6 | 11.3 | 0.0 | 4.6 | 9.2 | 13.9 | 18.5 | 23.1 | 27.7 | 32.4 |
| 140° | 25.0 | 16.6 | 8.3 | 0.0 | 3.2 | 6.5 | 9.7 | 12.9 | 16.2 | 19.4 | 22.6 |
| 142.5° | 18.0 | 12.0 | 6.0 | 0.0 | 1.8 | 3.7 | 5.5 | 7.4 | 9.2 | 11.1 | 12.9 |
| 145° | 11.8 | 7.9 | 3.9 | 0.0 | 1.2 | 2.3 | 3.5 | 4.6 | 5.8 | 6.9 | 8.1 |
| 147.5° | 7.6 | 5.1 | 2.5 | 0.0 | 0.7 | 1.4 | 2.1 | 2.8 | 3.4 | 4.1 | 4.8 |
| 150° | 4.9 | 3.2 | 1.6 | 0.0 | 0.2 | 0.5 | 0.7 | 0.9 | 1.2 | 1.4 | 1.6 |
| 152.5° | 2.8 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.7 | 0.5 | 0.2 | 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: P201401

CATALOG NUMBER: 8LBLED-LD4-16-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° | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 |
| 2.5° | 2054.2 | 2049.1 | 2047.9 | 2046.8 | 2045.6 | 2044.4 | 2043.3 | 2042.1 | 2040.9 | 2039.8 | 2038.6 |
| 5° | 2029.2 | 2022.0 | 2019.0 | 2016.0 | 2013.0 | 2010.0 | 2007.0 | 2004.0 | 2001.0 | 1998.0 | 1995.0 |
| 7.5° | 1996.1 | 1986.6 | 1982.9 | 1979.2 | 1975.5 | 1971.8 | 1968.2 | 1964.5 | 1960.8 | 1957.1 | 1953.4 |
| 10° | 1959.8 | 1949.2 | 1944.6 | 1940.0 | 1935.3 | 1930.7 | 1926.1 | 1921.5 | 1916.8 | 1912.2 | 1907.6 |
| 12.5° | 1919.4 | 1907.6 | 1902.7 | 1897.9 | 1893.0 | 1888.2 | 1883.3 | 1878.5 | 1873.6 | 1868.8 | 1863.9 |
| 15° | 1872.9 | 1859.7 | 1855.3 | 1850.9 | 1846.5 | 1842.1 | 1837.8 | 1833.4 | 1829.0 | 1824.6 | 1820.2 |
| 17.5° | 1823.7 | 1809.8 | 1806.1 | 1802.4 | 1798.7 | 1795.0 | 1791.3 | 1787.6 | 1783.9 | 1780.2 | 1776.5 |
| 20° | 1770.0 | 1755.7 | 1753.9 | 1752.0 | 1750.2 | 1748.3 | 1746.5 | 1744.6 | 1742.8 | 1740.9 | 1739.1 |
| 22.5° | 1713.7 | 1699.6 | 1701.2 | 1702.8 | 1704.4 | 1706.0 | 1707.7 | 1709.3 | 1710.9 | 1712.5 | 1714.1 |
| 25° | 1653.3 | 1639.2 | 1646.4 | 1653.5 | 1660.7 | 1667.9 | 1675.0 | 1682.2 | 1689.4 | 1696.5 | 1703.7 |
| 27.5° | 1592.3 | 1578.9 | 1592.3 | 1605.7 | 1619.1 | 1632.5 | 1646.0 | 1659.4 | 1672.8 | 1686.2 | 1699.6 |
| 30° | 1528.8 | 1516.5 | 1536.4 | 1556.3 | 1576.1 | 1596.0 | 1615.9 | 1635.8 | 1655.6 | 1675.5 | 1695.4 |
| 32.5° | 1465.0 | 1454.1 | 1480.2 | 1506.3 | 1532.5 | 1558.6 | 1584.7 | 1610.8 | 1637.0 | 1663.1 | 1689.2 |
| 35° | 1404.2 | 1395.9 | 1428.0 | 1460.1 | 1492.3 | 1524.4 | 1556.5 | 1588.6 | 1620.8 | 1652.9 | 1685.0 |
| 37.5° | 1355.2 | 1350.1 | 1386.8 | 1423.6 | 1460.3 | 1497.1 | 1533.8 | 1570.6 | 1607.3 | 1644.1 | 1680.8 |
| 40° | 1304.5 | 1304.3 | 1346.4 | 1388.4 | 1430.5 | 1472.6 | 1514.6 | 1556.7 | 1598.8 | 1640.8 | 1682.9 |
| 42.5° | 1259.9 | 1264.8 | 1312.0 | 1359.1 | 1406.3 | 1453.4 | 1500.6 | 1547.7 | 1594.9 | 1642.0 | 1689.2 |
| 45° | 1216.5 | 1225.3 | 1278.2 | 1331.1 | 1384.1 | 1437.0 | 1489.9 | 1542.8 | 1595.8 | 1648.7 | 1701.6 |
| 47.5° | 1173.5 | 1187.8 | 1247.0 | 1306.2 | 1365.3 | 1424.5 | 1483.7 | 1542.9 | 1602.0 | 1661.2 | 1720.4 |
| 50° | 1132.6 | 1152.5 | 1218.4 | 1284.2 | 1350.1 | 1416.0 | 1481.8 | 1547.7 | 1613.6 | 1679.4 | 1745.3 |
| 52.5° | 1092.1 | 1117.1 | 1190.4 | 1263.6 | 1336.9 | 1410.2 | 1483.4 | 1556.7 | 1630.0 | 1703.2 | 1776.5 |
| 55° | 1053.5 | 1083.8 | 1165.2 | 1246.5 | 1327.9 | 1409.3 | 1490.6 | 1572.0 | 1653.4 | 1734.7 | 1816.1 |
| 57.5° | 1017.0 | 1052.6 | 1143.0 | 1233.4 | 1323.7 | 1414.1 | 1504.5 | 1594.9 | 1685.2 | 1775.6 | 1866.0 |
| 60° | 982.6 | 1023.5 | 1122.9 | 1222.3 | 1321.7 | 1421.1 | 1520.4 | 1619.8 | 1719.2 | 1818.6 | 1918.0 |
| 62.5° | 946.8 | 992.3 | 1101.2 | 1210.0 | 1318.9 | 1427.8 | 1536.6 | 1645.5 | 1754.4 | 1863.2 | 1972.1 |
| 65° | 910.9 | 961.1 | 1078.7 | 1196.4 | 1314.0 | 1431.7 | 1549.3 | 1667.0 | 1784.6 | 1902.3 | 2019.9 |
| 67.5° | 873.3 | 927.8 | 1053.3 | 1178.8 | 1304.3 | 1429.8 | 1555.4 | 1680.9 | 1806.4 | 1931.9 | 2057.4 |
| 70° | 832.8 | 890.3 | 1021.1 | 1152.0 | 1282.8 | 1413.6 | 1544.5 | 1675.3 | 1806.1 | 1937.0 | 2067.8 |
| 72.5° | 788.8 | 848.7 | 981.8 | 1115.0 | 1248.1 | 1381.3 | 1514.4 | 1647.6 | 1780.7 | 1913.9 | 2047.0 |
| 75° | 741.7 | 803.0 | 935.2 | 1067.4 | 1199.6 | 1331.8 | 1464.1 | 1596.3 | 1728.5 | 1860.7 | 1992.9 |
| 77.5° | 691.1 | 753.1 | 879.8 | 1006.4 | 1133.1 | 1259.7 | 1386.4 | 1513.0 | 1639.7 | 1766.3 | 1893.0 |
| 80° | 637.3 | 699.0 | 818.0 | 937.1 | 1056.1 | 1175.1 | 1294.2 | 1413.2 | 1532.2 | 1651.3 | 1770.3 |
| 82.5° | 582.2 | 642.8 | 754.2 | 865.6 | 977.0 | 1088.4 | 1199.9 | 1311.3 | 1422.7 | 1534.1 | 1645.5 |
| 85° | 529.5 | 588.7 | 688.8 | 788.9 | 889.0 | 989.1 | 1089.1 | 1189.2 | 1289.3 | 1389.4 | 1489.5 |
| 87.5° | 472.0 | 528.4 | 618.8 | 709.2 | 799.5 | 889.9 | 980.3 | 1070.7 | 1161.0 | 1251.4 | 1341.8 |
| 90° | 423.5 | 476.4 | 558.9 | 641.4 | 723.9 | 806.4 | 889.0 | 971.5 | 1054.0 | 1136.5 | 1219.0 |
| 92.5° | 392.0 | 441.0 | 515.0 | 588.9 | 662.9 | 736.9 | 810.8 | 884.8 | 958.8 | 1032.7 | 1106.7 |
| 95° | 362.4 | 407.7 | 476.6 | 545.5 | 614.3 | 683.2 | 752.1 | 821.0 | 889.8 | 958.7 | 1027.6 |
| 97.5° | 336.5 | 378.6 | 442.4 | 506.2 | 570.0 | 633.8 | 697.6 | 761.4 | 825.2 | 889.0 | 952.8 |
| 100° | 308.8 | 347.4 | 407.5 | 467.6 | 527.7 | 587.8 | 647.9 | 708.0 | 768.1 | 828.2 | 888.3 |
| 102.5° | 284.8 | 320.4 | 377.5 | 434.6 | 491.7 | 548.8 | 605.8 | 662.9 | 720.0 | 777.1 | 834.2 |
| 105° | 260.7 | 293.3 | 348.1 | 402.9 | 457.6 | 512.4 | 567.2 | 622.0 | 676.7 | 731.5 | 786.3 |
| 107.5° | 238.6 | 268.4 | 320.9 | 373.3 | 425.8 | 478.3 | 530.7 | 583.2 | 635.7 | 688.1 | 740.6 |
| 110° | 216.4 | 243.4 | 294.0 | 344.6 | 395.3 | 445.9 | 496.5 | 547.1 | 597.8 | 648.4 | 699.0 |



TEST NUMBER: P201401

CATALOG NUMBER: 8LBLED-LD4-16-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° | 196.0 | 220.5 | 269.0 | 317.6 | 366.1 | 414.7 | 463.2 | 511.8 | 560.3 | 608.9 | 657.4 |
| 115° | 173.8 | 195.5 | 242.2 | 288.9 | 335.6 | 382.3 | 429.0 | 475.7 | 522.4 | 569.1 | 615.8 |
| 117.5° | 155.3 | 174.7 | 218.9 | 263.0 | 307.2 | 351.3 | 395.5 | 439.6 | 483.8 | 527.9 | 572.1 |
| 120° | 138.7 | 156.0 | 197.4 | 238.8 | 280.1 | 321.5 | 362.9 | 404.3 | 445.6 | 487.0 | 528.4 |
| 122.5° | 123.9 | 139.4 | 177.3 | 215.2 | 253.1 | 291.0 | 328.9 | 366.8 | 404.7 | 442.6 | 480.5 |
| 125° | 109.1 | 122.7 | 157.4 | 192.1 | 226.7 | 261.4 | 296.1 | 330.8 | 365.4 | 400.1 | 434.8 |
| 127.5° | 92.4 | 104.0 | 135.4 | 166.9 | 198.3 | 229.7 | 261.2 | 292.6 | 324.0 | 355.5 | 386.9 |
| 130° | 77.7 | 87.4 | 114.4 | 141.5 | 168.5 | 195.6 | 222.6 | 249.7 | 276.7 | 303.8 | 330.8 |
| 132.5° | 62.8 | 70.7 | 93.8 | 116.9 | 140.1 | 163.2 | 186.3 | 209.4 | 232.6 | 255.7 | 278.8 |
| 135° | 50.0 | 56.2 | 76.3 | 96.4 | 116.5 | 136.6 | 156.7 | 176.8 | 196.9 | 217.0 | 237.1 |
| 137.5° | 37.0 | 41.6 | 59.2 | 76.7 | 94.3 | 111.9 | 129.4 | 147.0 | 164.6 | 182.1 | 199.7 |
| 140° | 25.9 | 29.1 | 44.4 | 59.6 | 74.9 | 90.1 | 105.4 | 120.6 | 135.9 | 151.1 | 166.4 |
| 142.5° | 14.8 | 16.6 | 29.8 | 43.0 | 56.1 | 69.3 | 82.5 | 95.7 | 108.8 | 122.0 | 135.2 |
| 145° | 9.2 | 10.4 | 21.3 | 32.1 | 43.0 | 53.9 | 64.7 | 75.6 | 86.5 | 97.3 | 108.2 |
| 147.5° | 5.5 | 6.2 | 14.8 | 23.3 | 31.9 | 40.4 | 49.0 | 57.5 | 66.1 | 74.6 | 83.2 |
| 150° | 1.9 | 2.1 | 8.8 | 15.5 | 22.2 | 28.9 | 35.6 | 42.3 | 49.0 | 55.7 | 62.4 |
| 152.5° | 0.0 | 0.0 | 4.9 | 9.7 | 14.6 | 19.4 | 24.3 | 29.1 | 34.0 | 38.8 | 43.7 |
| 155° | 0.0 | 0.0 | 3.0 | 6.0 | 9.0 | 12.0 | 15.0 | 18.0 | 21.0 | 24.0 | 27.0 |
| 157.5° | 0.0 | 0.0 | 1.2 | 2.3 | 3.5 | 4.6 | 5.8 | 6.9 | 8.1 | 9.2 | 10.4 |
| 160° | 0.0 | 0.0 | 0.2 | 0.5 | 0.7 | 0.9 | 1.2 | 1.4 | 1.6 | 1.9 | 2.1 |
| 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: P201401

CATALOG NUMBER: 8LBLEDD4-16-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° | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 |
| 2.5° | 2036.1 | 2033.5 | 2031.0 | 2028.5 | 2025.9 | 2023.4 | 2020.9 | 2018.3 | 2015.8 | 2013.7 | 2011.6 |
| 5° | 1992.0 | 1989.0 | 1986.0 | 1983.0 | 1979.9 | 1976.9 | 1973.9 | 1970.9 | 1967.9 | 1966.7 | 1965.6 |
| 7.5° | 1950.2 | 1946.9 | 1943.7 | 1940.4 | 1937.2 | 1933.9 | 1930.7 | 1927.4 | 1924.2 | 1923.0 | 1921.9 |
| 10° | 1904.8 | 1902.0 | 1899.3 | 1896.5 | 1893.7 | 1890.9 | 1888.2 | 1885.4 | 1882.6 | 1881.2 | 1879.8 |
| 12.5° | 1861.6 | 1859.3 | 1857.0 | 1854.7 | 1852.3 | 1850.0 | 1847.7 | 1845.4 | 1843.1 | 1842.2 | 1841.3 |
| 15° | 1819.0 | 1817.9 | 1816.7 | 1815.6 | 1814.4 | 1813.3 | 1812.1 | 1811.0 | 1809.8 | 1810.3 | 1810.7 |
| 17.5° | 1778.4 | 1780.2 | 1782.1 | 1783.9 | 1785.8 | 1787.6 | 1789.5 | 1791.3 | 1793.2 | 1795.5 | 1797.8 |
| 20° | 1745.8 | 1752.5 | 1759.2 | 1765.9 | 1772.6 | 1779.3 | 1786.0 | 1792.7 | 1799.4 | 1803.1 | 1806.8 |
| 22.5° | 1725.2 | 1736.3 | 1747.4 | 1758.5 | 1769.6 | 1780.7 | 1791.8 | 1802.9 | 1814.0 | 1818.6 | 1823.2 |
| 25° | 1717.8 | 1731.9 | 1746.0 | 1760.1 | 1774.2 | 1788.3 | 1802.4 | 1816.5 | 1830.6 | 1835.9 | 1841.2 |
| 27.5° | 1715.8 | 1732.0 | 1748.1 | 1764.3 | 1780.5 | 1796.7 | 1812.8 | 1829.0 | 1845.2 | 1851.4 | 1857.7 |
| 30° | 1713.9 | 1732.4 | 1750.9 | 1769.4 | 1787.8 | 1806.3 | 1824.8 | 1843.3 | 1861.8 | 1869.2 | 1876.6 |
| 32.5° | 1710.7 | 1732.2 | 1753.7 | 1775.2 | 1796.6 | 1818.1 | 1839.6 | 1861.1 | 1882.6 | 1891.6 | 1900.6 |
| 35° | 1710.0 | 1734.9 | 1759.9 | 1784.9 | 1809.8 | 1834.8 | 1859.8 | 1884.7 | 1909.7 | 1920.6 | 1931.4 |
| 37.5° | 1710.2 | 1739.5 | 1768.9 | 1798.2 | 1827.6 | 1856.9 | 1886.3 | 1915.6 | 1945.0 | 1958.2 | 1971.4 |
| 40° | 1717.1 | 1751.3 | 1785.5 | 1819.7 | 1854.0 | 1888.2 | 1922.4 | 1956.6 | 1990.8 | 2006.5 | 2022.2 |
| 42.5° | 1729.0 | 1768.7 | 1808.5 | 1848.2 | 1888.0 | 1927.7 | 1967.5 | 2007.2 | 2047.0 | 2065.5 | 2084.0 |
| 45° | 1747.8 | 1794.1 | 1840.3 | 1886.5 | 1932.8 | 1979.0 | 2025.2 | 2071.5 | 2117.7 | 2139.2 | 2160.7 |
| 47.5° | 1773.6 | 1826.7 | 1879.9 | 1933.0 | 1986.2 | 2039.3 | 2092.5 | 2145.6 | 2198.8 | 2224.5 | 2250.1 |
| 50° | 1807.5 | 1869.7 | 1931.8 | 1994.0 | 2056.2 | 2118.4 | 2180.5 | 2242.7 | 2304.9 | 2333.6 | 2362.2 |
| 52.5° | 1847.9 | 1919.3 | 1990.8 | 2062.2 | 2133.6 | 2205.0 | 2276.5 | 2347.9 | 2419.3 | 2451.0 | 2482.6 |
| 55° | 1895.8 | 1975.6 | 2055.3 | 2135.0 | 2214.8 | 2294.5 | 2374.2 | 2454.0 | 2533.7 | 2569.5 | 2605.4 |
| 57.5° | 1954.5 | 2043.0 | 2131.6 | 2220.1 | 2308.6 | 2397.1 | 2485.7 | 2574.2 | 2662.7 | 2701.1 | 2739.4 |
| 60° | 2015.8 | 2113.5 | 2211.3 | 2309.1 | 2406.8 | 2504.6 | 2602.4 | 2700.1 | 2797.9 | 2836.7 | 2875.6 |
| 62.5° | 2076.8 | 2181.5 | 2286.2 | 2390.9 | 2495.6 | 2600.3 | 2705.0 | 2809.7 | 2914.4 | 2953.0 | 2991.6 |
| 65° | 2128.3 | 2236.7 | 2345.1 | 2453.5 | 2562.0 | 2670.4 | 2778.8 | 2887.2 | 2995.6 | 3034.4 | 3073.2 |
| 67.5° | 2168.1 | 2278.8 | 2389.5 | 2500.2 | 2611.0 | 2721.7 | 2832.4 | 2943.1 | 3053.8 | 3090.6 | 3127.3 |
| 70° | 2178.5 | 2289.2 | 2399.9 | 2510.6 | 2621.4 | 2732.1 | 2842.8 | 2953.5 | 3064.2 | 3098.4 | 3132.6 |
| 72.5° | 2154.7 | 2262.4 | 2370.1 | 2477.8 | 2585.6 | 2693.3 | 2801.0 | 2908.7 | 3016.4 | 3047.8 | 3079.3 |
| 75° | 2095.1 | 2197.2 | 2299.4 | 2401.6 | 2503.7 | 2605.9 | 2708.1 | 2810.2 | 2912.4 | 2940.8 | 2969.2 |
| 77.5° | 1988.7 | 2084.4 | 2180.1 | 2275.8 | 2371.5 | 2467.2 | 2562.9 | 2658.6 | 2754.3 | 2782.0 | 2809.8 |
| 80° | 1857.2 | 1944.1 | 2031.0 | 2117.9 | 2204.9 | 2291.8 | 2378.7 | 2465.6 | 2552.5 | 2578.2 | 2603.8 |
| 82.5° | 1721.3 | 1797.1 | 1872.9 | 1948.7 | 2024.6 | 2100.4 | 2176.2 | 2252.0 | 2327.8 | 2351.4 | 2375.0 |
| 85° | 1557.5 | 1625.4 | 1693.4 | 1761.3 | 1829.3 | 1897.2 | 1965.2 | 2033.1 | 2101.1 | 2121.9 | 2142.7 |
| 87.5° | 1401.2 | 1460.6 | 1520.0 | 1579.4 | 1638.8 | 1698.2 | 1757.6 | 1817.0 | 1876.4 | 1895.6 | 1914.8 |
| 90° | 1269.9 | 1320.7 | 1371.6 | 1422.4 | 1473.3 | 1524.1 | 1575.0 | 1625.8 | 1676.7 | 1694.7 | 1712.7 |
| 92.5° | 1153.6 | 1200.5 | 1247.5 | 1294.4 | 1341.3 | 1388.2 | 1435.2 | 1482.1 | 1529.0 | 1544.9 | 1560.9 |
| 95° | 1069.9 | 1112.2 | 1154.5 | 1196.8 | 1239.1 | 1281.4 | 1323.7 | 1366.0 | 1408.3 | 1423.3 | 1438.3 |
| 97.5° | 992.8 | 1032.8 | 1072.7 | 1112.7 | 1152.7 | 1192.7 | 1232.6 | 1272.6 | 1312.6 | 1326.7 | 1340.8 |
| 100° | 927.1 | 966.0 | 1004.8 | 1043.6 | 1082.5 | 1121.3 | 1160.1 | 1199.0 | 1237.8 | 1251.2 | 1264.6 |
| 102.5° | 871.9 | 909.6 | 947.2 | 984.9 | 1022.6 | 1060.3 | 1097.9 | 1135.6 | 1173.3 | 1186.7 | 1200.1 |
| 105° | 823.7 | 861.2 | 898.6 | 936.1 | 973.5 | 1011.0 | 1048.4 | 1085.9 | 1123.3 | 1136.5 | 1149.7 |
| 107.5° | 778.3 | 816.0 | 853.6 | 891.3 | 929.0 | 966.7 | 1004.3 | 1042.0 | 1079.7 | 1092.6 | 1105.6 |
| 110° | 736.4 | 773.9 | 811.3 | 848.8 | 886.2 | 923.7 | 961.1 | 998.6 | 1036.0 | 1049.2 | 1062.3 |



TEST NUMBER: P201401

CATALOG NUMBER: 8LBLED-LD4-16-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° | 694.8 | 732.3 | 769.7 | 807.2 | 844.6 | 882.1 | 919.5 | 957.0 | 994.4 | 1007.8 | 1021.2 |
| 115° | 653.2 | 690.7 | 728.1 | 765.6 | 803.0 | 840.5 | 877.9 | 915.4 | 952.8 | 966.4 | 980.1 |
| 117.5° | 609.3 | 646.5 | 683.7 | 720.9 | 758.2 | 795.4 | 832.6 | 869.8 | 907.0 | 921.1 | 935.2 |
| 120° | 564.7 | 601.0 | 637.3 | 673.6 | 709.8 | 746.1 | 782.4 | 818.7 | 855.0 | 869.6 | 884.1 |
| 122.5° | 515.6 | 550.8 | 585.9 | 621.0 | 656.2 | 691.3 | 726.4 | 761.6 | 796.7 | 811.5 | 826.3 |
| 125° | 467.8 | 500.9 | 533.9 | 567.0 | 600.0 | 633.1 | 666.1 | 699.2 | 732.2 | 747.0 | 761.8 |
| 127.5° | 418.1 | 449.3 | 480.5 | 511.7 | 543.0 | 574.2 | 605.4 | 636.6 | 667.8 | 681.9 | 696.0 |
| 130° | 361.1 | 391.4 | 421.6 | 451.9 | 482.2 | 512.5 | 542.7 | 573.0 | 603.3 | 615.5 | 627.8 |
| 132.5° | 307.7 | 336.6 | 365.5 | 394.4 | 423.2 | 452.1 | 481.0 | 509.9 | 538.8 | 550.1 | 561.4 |
| 135° | 263.2 | 289.3 | 315.5 | 341.6 | 367.7 | 393.8 | 420.0 | 446.1 | 472.2 | 483.1 | 493.9 |
| 137.5° | 221.7 | 243.6 | 265.6 | 287.5 | 309.5 | 331.4 | 353.4 | 375.3 | 397.3 | 408.6 | 420.0 |
| 140° | 184.2 | 202.0 | 219.8 | 237.6 | 255.4 | 273.2 | 291.0 | 308.8 | 326.6 | 337.0 | 347.4 |
| 142.5° | 150.2 | 165.2 | 180.3 | 195.3 | 210.3 | 225.3 | 240.4 | 255.4 | 270.4 | 279.4 | 288.4 |
| 145° | 120.9 | 133.6 | 146.3 | 159.0 | 171.8 | 184.5 | 197.2 | 209.9 | 222.6 | 231.2 | 239.7 |
| 147.5° | 93.8 | 104.5 | 115.1 | 125.7 | 136.4 | 147.0 | 157.6 | 168.3 | 178.9 | 187.0 | 195.1 |
| 150° | 71.0 | 79.5 | 88.1 | 96.6 | 105.2 | 113.7 | 122.3 | 130.8 | 139.4 | 147.3 | 155.1 |
| 152.5° | 50.4 | 57.1 | 63.8 | 70.5 | 77.2 | 83.9 | 90.6 | 97.3 | 104.0 | 111.4 | 118.8 |
| 155° | 32.3 | 37.6 | 43.0 | 48.3 | 53.6 | 58.9 | 64.3 | 69.6 | 74.9 | 81.4 | 87.8 |
| 157.5° | 14.8 | 19.2 | 23.6 | 28.0 | 32.3 | 36.7 | 41.1 | 45.5 | 49.9 | 55.7 | 61.5 |
| 160° | 5.1 | 8.1 | 11.1 | 14.1 | 17.1 | 20.1 | 23.1 | 26.1 | 29.1 | 33.7 | 38.3 |
| 162.5° | 0.9 | 1.8 | 2.8 | 3.7 | 4.6 | 5.5 | 6.5 | 7.4 | 8.3 | 12.0 | 15.7 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 4.6 |
| 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: P201401

CATALOG NUMBER: 8LBLELD4-16-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° | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 |
| 2.5° | 2009.5 | 2007.4 | 2005.4 | 2003.3 | 2001.2 | 1999.1 | 1997.0 | 1999.3 | 2001.6 | 2003.9 | 2006.2 |
| 5° | 1964.4 | 1963.3 | 1962.1 | 1961.0 | 1959.8 | 1958.7 | 1957.5 | 1958.9 | 1960.3 | 1961.7 | 1963.1 |
| 7.5° | 1920.7 | 1919.6 | 1918.4 | 1917.3 | 1916.1 | 1915.0 | 1913.8 | 1914.7 | 1915.7 | 1916.6 | 1917.5 |
| 10° | 1878.4 | 1877.0 | 1875.7 | 1874.3 | 1872.9 | 1871.5 | 1870.1 | 1870.8 | 1871.5 | 1872.2 | 1872.9 |
| 12.5° | 1840.3 | 1839.4 | 1838.5 | 1837.6 | 1836.6 | 1835.7 | 1834.8 | 1835.0 | 1835.3 | 1835.5 | 1835.7 |
| 15° | 1811.2 | 1811.7 | 1812.1 | 1812.6 | 1813.1 | 1813.5 | 1814.0 | 1813.5 | 1813.1 | 1812.6 | 1812.1 |
| 17.5° | 1800.1 | 1802.4 | 1804.8 | 1807.1 | 1809.4 | 1811.7 | 1814.0 | 1811.9 | 1809.8 | 1807.8 | 1805.7 |
| 20° | 1810.5 | 1814.2 | 1817.9 | 1821.6 | 1825.3 | 1829.0 | 1832.7 | 1828.8 | 1824.8 | 1820.9 | 1817.0 |
| 22.5° | 1827.9 | 1832.5 | 1837.1 | 1841.7 | 1846.4 | 1851.0 | 1855.6 | 1850.3 | 1845.0 | 1839.6 | 1834.3 |
| 25° | 1846.6 | 1851.9 | 1857.2 | 1862.5 | 1867.9 | 1873.2 | 1878.5 | 1872.7 | 1866.9 | 1861.2 | 1855.4 |
| 27.5° | 1863.9 | 1870.2 | 1876.4 | 1882.7 | 1888.9 | 1895.2 | 1901.4 | 1894.7 | 1888.0 | 1881.3 | 1874.6 |
| 30° | 1884.0 | 1891.4 | 1898.8 | 1906.2 | 1913.6 | 1921.0 | 1928.4 | 1920.5 | 1912.7 | 1904.8 | 1897.0 |
| 32.5° | 1909.7 | 1918.7 | 1927.7 | 1936.7 | 1945.8 | 1954.8 | 1963.8 | 1954.8 | 1945.8 | 1936.7 | 1927.7 |
| 35° | 1942.3 | 1953.1 | 1964.0 | 1974.8 | 1985.7 | 1996.5 | 2007.4 | 1996.8 | 1986.2 | 1975.5 | 1964.9 |
| 37.5° | 1984.5 | 1997.7 | 2010.9 | 2024.1 | 2037.2 | 2050.4 | 2063.6 | 2050.4 | 2037.2 | 2024.1 | 2010.9 |
| 40° | 2038.0 | 2053.7 | 2069.4 | 2085.1 | 2100.9 | 2116.6 | 2132.3 | 2117.3 | 2102.2 | 2087.2 | 2072.2 |
| 42.5° | 2102.5 | 2121.0 | 2139.4 | 2157.9 | 2176.4 | 2194.9 | 2213.4 | 2196.5 | 2179.6 | 2162.8 | 2145.9 |
| 45° | 2182.2 | 2203.7 | 2225.2 | 2246.7 | 2268.2 | 2289.7 | 2311.2 | 2291.1 | 2271.0 | 2250.9 | 2230.8 |
| 47.5° | 2275.8 | 2301.4 | 2327.1 | 2352.7 | 2378.4 | 2404.0 | 2429.7 | 2405.9 | 2382.1 | 2358.3 | 2334.5 |
| 50° | 2390.9 | 2419.6 | 2448.2 | 2476.9 | 2505.6 | 2534.2 | 2562.9 | 2535.9 | 2508.8 | 2481.8 | 2454.7 |
| 52.5° | 2514.3 | 2546.0 | 2577.6 | 2609.3 | 2641.0 | 2672.6 | 2704.3 | 2674.7 | 2645.1 | 2615.6 | 2586.0 |
| 55° | 2641.2 | 2677.0 | 2712.9 | 2748.7 | 2784.5 | 2820.4 | 2856.2 | 2823.8 | 2791.5 | 2759.1 | 2726.8 |
| 57.5° | 2777.8 | 2816.2 | 2854.5 | 2892.9 | 2931.3 | 2969.6 | 3008.0 | 2973.8 | 2939.6 | 2905.4 | 2871.2 |
| 60° | 2914.4 | 2953.2 | 2992.1 | 3030.9 | 3069.7 | 3108.6 | 3147.4 | 3112.5 | 3077.6 | 3042.7 | 3007.8 |
| 62.5° | 3030.2 | 3068.8 | 3107.4 | 3146.0 | 3184.6 | 3223.2 | 3261.8 | 3227.4 | 3192.9 | 3158.5 | 3124.1 |
| 65° | 3112.1 | 3150.9 | 3189.7 | 3228.5 | 3267.4 | 3306.2 | 3345.0 | 3311.5 | 3278.0 | 3244.5 | 3211.0 |
| 67.5° | 3164.1 | 3200.8 | 3237.6 | 3274.3 | 3311.1 | 3347.8 | 3384.6 | 3352.9 | 3321.3 | 3289.6 | 3257.9 |
| 70° | 3166.8 | 3201.0 | 3235.3 | 3269.5 | 3303.7 | 3337.9 | 3372.1 | 3342.7 | 3313.4 | 3284.0 | 3254.7 |
| 72.5° | 3110.7 | 3142.1 | 3173.6 | 3205.0 | 3236.4 | 3267.9 | 3299.3 | 3272.0 | 3244.7 | 3217.5 | 3190.2 |
| 75° | 2997.7 | 3026.1 | 3054.5 | 3082.9 | 3111.4 | 3139.8 | 3168.2 | 3143.2 | 3118.3 | 3093.3 | 3068.4 |
| 77.5° | 2837.5 | 2865.2 | 2893.0 | 2920.7 | 2948.4 | 2976.2 | 3003.9 | 2978.5 | 2953.1 | 2927.6 | 2902.2 |
| 80° | 2629.5 | 2655.1 | 2680.8 | 2706.4 | 2732.1 | 2757.7 | 2783.4 | 2759.8 | 2736.2 | 2712.7 | 2689.1 |
| 82.5° | 2398.5 | 2422.1 | 2445.7 | 2469.3 | 2492.8 | 2516.4 | 2540.0 | 2518.0 | 2496.1 | 2474.1 | 2452.2 |
| 85° | 2163.5 | 2184.3 | 2205.1 | 2225.9 | 2246.7 | 2267.5 | 2288.3 | 2268.2 | 2248.1 | 2228.0 | 2207.9 |
| 87.5° | 1934.0 | 1953.2 | 1972.3 | 1991.5 | 2010.7 | 2029.9 | 2049.1 | 2030.4 | 2011.6 | 1992.9 | 1974.2 |
| 90° | 1730.8 | 1748.8 | 1766.8 | 1784.8 | 1802.9 | 1820.9 | 1838.9 | 1821.8 | 1804.7 | 1787.6 | 1770.5 |
| 92.5° | 1576.8 | 1592.8 | 1608.7 | 1624.7 | 1640.6 | 1656.6 | 1672.5 | 1657.2 | 1642.0 | 1626.7 | 1611.5 |
| 95° | 1453.4 | 1468.4 | 1483.4 | 1498.4 | 1513.5 | 1528.5 | 1543.5 | 1529.6 | 1515.8 | 1501.9 | 1488.0 |
| 97.5° | 1354.9 | 1369.0 | 1383.1 | 1397.2 | 1411.3 | 1425.4 | 1439.5 | 1426.3 | 1413.2 | 1400.0 | 1386.8 |
| 100° | 1278.0 | 1291.4 | 1304.8 | 1318.2 | 1331.6 | 1345.0 | 1358.4 | 1345.7 | 1333.0 | 1320.3 | 1307.6 |
| 102.5° | 1213.5 | 1226.9 | 1240.3 | 1253.7 | 1267.1 | 1280.5 | 1293.9 | 1281.7 | 1269.4 | 1257.2 | 1244.9 |
| 105° | 1162.8 | 1176.0 | 1189.2 | 1202.4 | 1215.5 | 1228.7 | 1241.9 | 1229.7 | 1217.4 | 1205.2 | 1192.9 |
| 107.5° | 1118.5 | 1131.4 | 1144.4 | 1157.3 | 1170.2 | 1183.2 | 1196.1 | 1184.1 | 1172.1 | 1160.1 | 1148.1 |
| 110° | 1075.5 | 1088.7 | 1101.8 | 1115.0 | 1128.2 | 1141.3 | 1154.5 | 1142.5 | 1130.5 | 1118.5 | 1106.5 |



TEST NUMBER: P201401

CATALOG NUMBER: 8LBLED-LD4-16-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° | 1034.6 | 1048.0 | 1061.4 | 1074.8 | 1088.2 | 1101.6 | 1115.0 | 1102.8 | 1090.5 | 1078.3 | 1066.0 |
| 115° | 993.7 | 1007.3 | 1021.0 | 1034.6 | 1048.2 | 1061.9 | 1075.5 | 1063.0 | 1050.5 | 1038.1 | 1025.6 |
| 117.5° | 949.3 | 963.4 | 977.5 | 991.6 | 1005.7 | 1019.8 | 1033.9 | 1021.2 | 1008.5 | 995.8 | 983.1 |
| 120° | 898.7 | 913.2 | 927.8 | 942.3 | 956.9 | 971.4 | 986.0 | 973.1 | 960.1 | 947.2 | 934.2 |
| 122.5° | 841.1 | 855.9 | 870.7 | 885.5 | 900.3 | 915.1 | 929.9 | 916.7 | 903.5 | 890.4 | 877.2 |
| 125° | 776.6 | 791.4 | 806.2 | 821.0 | 835.8 | 850.6 | 865.4 | 852.9 | 840.4 | 828.0 | 815.5 |
| 127.5° | 710.1 | 724.2 | 738.3 | 752.4 | 766.5 | 780.6 | 794.7 | 782.7 | 770.7 | 758.6 | 746.6 |
| 130° | 640.0 | 652.3 | 664.5 | 676.8 | 689.0 | 701.3 | 713.5 | 702.6 | 691.8 | 680.9 | 670.1 |
| 132.5° | 572.8 | 584.1 | 595.4 | 606.7 | 618.1 | 629.4 | 640.7 | 631.5 | 622.2 | 613.0 | 603.7 |
| 135° | 504.8 | 515.7 | 526.5 | 537.4 | 548.3 | 559.1 | 570.0 | 561.7 | 553.4 | 545.0 | 536.7 |
| 137.5° | 431.3 | 442.6 | 454.0 | 465.3 | 476.6 | 488.0 | 499.3 | 491.0 | 482.7 | 474.3 | 466.0 |
| 140° | 357.8 | 368.2 | 378.6 | 389.0 | 399.4 | 409.8 | 420.2 | 413.3 | 406.3 | 399.4 | 392.5 |
| 142.5° | 297.5 | 306.5 | 315.5 | 324.5 | 333.6 | 342.6 | 351.6 | 346.7 | 341.9 | 337.0 | 332.2 |
| 145° | 248.3 | 256.8 | 265.4 | 273.9 | 282.5 | 291.0 | 299.6 | 295.7 | 291.7 | 287.8 | 283.9 |
| 147.5° | 203.2 | 211.3 | 219.3 | 227.4 | 235.5 | 243.6 | 251.7 | 248.5 | 245.2 | 242.0 | 238.8 |
| 150° | 163.0 | 170.8 | 178.7 | 186.5 | 194.4 | 202.2 | 210.1 | 207.3 | 204.5 | 201.8 | 199.0 |
| 152.5° | 126.2 | 133.6 | 141.0 | 148.4 | 155.8 | 163.2 | 170.6 | 168.3 | 166.0 | 163.7 | 161.4 |
| 155° | 94.3 | 100.8 | 107.2 | 113.7 | 120.2 | 126.6 | 133.1 | 131.5 | 129.9 | 128.3 | 126.7 |
| 157.5° | 67.2 | 73.0 | 78.8 | 84.6 | 90.3 | 96.1 | 101.9 | 100.5 | 99.1 | 97.8 | 96.4 |
| 160° | 43.0 | 47.6 | 52.2 | 56.8 | 61.5 | 66.1 | 70.7 | 69.8 | 68.9 | 67.9 | 67.0 |
| 162.5° | 19.4 | 23.1 | 26.8 | 30.5 | 34.2 | 37.9 | 41.6 | 41.1 | 40.7 | 40.2 | 39.7 |
| 165° | 6.9 | 9.2 | 11.6 | 13.9 | 16.2 | 18.5 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 |
| 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: P201401

CATALOG NUMBER: 8LBLEDD4-16-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° | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 |
| 2.5° | 2008.6 | 2010.9 | 2013.2 | 2015.5 | 2017.8 | 2021.0 | 2024.3 | 2027.5 | 2030.8 | 2034.0 | 2037.3 |
| 5° | 1964.4 | 1965.8 | 1967.2 | 1968.6 | 1970.0 | 1973.9 | 1977.9 | 1981.8 | 1985.7 | 1989.7 | 1993.6 |
| 7.5° | 1918.5 | 1919.4 | 1920.3 | 1921.3 | 1922.2 | 1927.0 | 1931.9 | 1936.7 | 1941.6 | 1946.4 | 1951.3 |
| 10° | 1873.6 | 1874.3 | 1875.0 | 1875.7 | 1876.4 | 1881.3 | 1886.1 | 1891.0 | 1895.8 | 1900.7 | 1905.5 |
| 12.5° | 1836.0 | 1836.2 | 1836.4 | 1836.7 | 1836.9 | 1842.0 | 1847.1 | 1852.1 | 1857.2 | 1862.3 | 1867.4 |
| 15° | 1811.7 | 1811.2 | 1810.7 | 1810.3 | 1809.8 | 1813.0 | 1816.3 | 1819.5 | 1822.7 | 1826.0 | 1829.2 |
| 17.5° | 1803.6 | 1801.5 | 1799.5 | 1797.4 | 1795.3 | 1795.5 | 1795.7 | 1796.0 | 1796.2 | 1796.4 | 1796.6 |
| 20° | 1813.0 | 1809.1 | 1805.2 | 1801.2 | 1797.3 | 1792.9 | 1788.5 | 1784.1 | 1779.7 | 1775.4 | 1771.0 |
| 22.5° | 1829.0 | 1823.7 | 1818.3 | 1813.0 | 1807.7 | 1799.2 | 1790.6 | 1782.1 | 1773.5 | 1765.0 | 1756.4 |
| 25° | 1849.6 | 1843.8 | 1838.1 | 1832.3 | 1826.5 | 1814.2 | 1802.0 | 1789.7 | 1777.5 | 1765.2 | 1753.0 |
| 27.5° | 1867.8 | 1861.1 | 1854.4 | 1847.7 | 1841.0 | 1826.7 | 1812.3 | 1798.0 | 1783.7 | 1769.3 | 1755.0 |
| 30° | 1889.1 | 1881.3 | 1873.4 | 1865.6 | 1857.7 | 1840.8 | 1823.9 | 1807.1 | 1790.2 | 1773.3 | 1756.4 |
| 32.5° | 1918.7 | 1909.7 | 1900.6 | 1891.6 | 1882.6 | 1862.3 | 1841.9 | 1821.6 | 1801.3 | 1780.9 | 1760.6 |
| 35° | 1954.3 | 1943.7 | 1933.0 | 1922.4 | 1911.8 | 1887.8 | 1863.7 | 1839.7 | 1815.6 | 1791.6 | 1767.5 |
| 37.5° | 1997.7 | 1984.5 | 1971.4 | 1958.2 | 1945.0 | 1917.5 | 1890.0 | 1862.5 | 1835.0 | 1807.5 | 1780.0 |
| 40° | 2057.1 | 2042.1 | 2027.1 | 2012.0 | 1997.0 | 1964.4 | 1931.8 | 1899.2 | 1866.6 | 1834.1 | 1801.5 |
| 42.5° | 2129.0 | 2112.1 | 2095.3 | 2078.4 | 2061.5 | 2022.7 | 1983.8 | 1945.0 | 1906.2 | 1867.3 | 1828.5 |
| 45° | 2210.6 | 2190.5 | 2170.4 | 2150.3 | 2130.2 | 2085.4 | 2040.5 | 1995.7 | 1950.8 | 1906.0 | 1861.1 |
| 47.5° | 2310.7 | 2286.9 | 2263.1 | 2239.3 | 2215.5 | 2163.7 | 2111.9 | 2060.2 | 2008.4 | 1956.6 | 1904.8 |
| 50° | 2427.7 | 2400.6 | 2373.6 | 2346.5 | 2319.5 | 2259.4 | 2199.3 | 2139.2 | 2079.1 | 2019.0 | 1958.9 |
| 52.5° | 2556.4 | 2526.8 | 2497.3 | 2467.7 | 2438.1 | 2369.0 | 2299.9 | 2230.8 | 2161.7 | 2092.5 | 2023.4 |
| 55° | 2694.4 | 2662.1 | 2629.7 | 2597.4 | 2565.0 | 2486.9 | 2408.7 | 2330.6 | 2252.5 | 2174.3 | 2096.2 |
| 57.5° | 2837.0 | 2802.8 | 2768.6 | 2734.4 | 2700.2 | 2613.1 | 2525.9 | 2438.8 | 2351.6 | 2264.5 | 2177.3 |
| 60° | 2972.9 | 2938.0 | 2903.1 | 2868.2 | 2833.3 | 2738.1 | 2642.8 | 2547.6 | 2452.4 | 2357.1 | 2261.9 |
| 62.5° | 3089.6 | 3055.2 | 3020.8 | 2986.3 | 2951.9 | 2850.0 | 2748.0 | 2646.1 | 2544.2 | 2442.2 | 2340.3 |
| 65° | 3177.4 | 3143.9 | 3110.4 | 3076.9 | 3043.4 | 2937.1 | 2830.8 | 2724.4 | 2618.1 | 2511.8 | 2405.5 |
| 67.5° | 3226.3 | 3194.6 | 3162.9 | 3131.3 | 3099.6 | 2991.0 | 2882.3 | 2773.7 | 2665.1 | 2556.4 | 2447.8 |
| 70° | 3225.3 | 3196.0 | 3166.6 | 3137.3 | 3107.9 | 2999.5 | 2891.1 | 2782.7 | 2674.3 | 2565.9 | 2457.5 |
| 72.5° | 3162.9 | 3135.6 | 3108.4 | 3081.1 | 3053.8 | 2948.4 | 2843.0 | 2737.6 | 2632.2 | 2526.8 | 2421.4 |
| 75° | 3043.4 | 3018.5 | 2993.5 | 2968.6 | 2943.6 | 2844.0 | 2744.4 | 2644.7 | 2545.1 | 2445.5 | 2345.9 |
| 77.5° | 2876.8 | 2851.4 | 2825.9 | 2800.5 | 2775.1 | 2682.9 | 2590.6 | 2498.4 | 2406.2 | 2313.9 | 2221.7 |
| 80° | 2665.5 | 2641.9 | 2618.4 | 2594.8 | 2571.2 | 2487.1 | 2402.9 | 2318.8 | 2234.7 | 2150.5 | 2066.4 |
| 82.5° | 2430.2 | 2408.3 | 2386.3 | 2364.4 | 2342.4 | 2267.5 | 2192.6 | 2117.7 | 2042.8 | 1968.0 | 1893.1 |
| 85° | 2187.7 | 2167.6 | 2147.5 | 2127.4 | 2107.3 | 2041.4 | 1975.5 | 1909.7 | 1843.8 | 1777.9 | 1712.0 |
| 87.5° | 1955.4 | 1936.7 | 1918.0 | 1899.2 | 1880.5 | 1823.2 | 1765.9 | 1708.5 | 1651.2 | 1593.9 | 1536.6 |
| 90° | 1753.4 | 1736.3 | 1719.2 | 1702.1 | 1685.0 | 1634.1 | 1583.3 | 1532.4 | 1481.6 | 1430.7 | 1379.9 |
| 92.5° | 1596.2 | 1581.0 | 1565.7 | 1550.5 | 1535.2 | 1489.9 | 1444.6 | 1399.3 | 1354.0 | 1308.7 | 1263.4 |
| 95° | 1474.2 | 1460.3 | 1446.4 | 1432.6 | 1418.7 | 1376.9 | 1335.0 | 1293.2 | 1251.4 | 1209.5 | 1167.7 |
| 97.5° | 1373.7 | 1360.5 | 1347.3 | 1334.2 | 1321.0 | 1281.7 | 1242.4 | 1203.1 | 1163.8 | 1124.5 | 1085.2 |
| 100° | 1294.8 | 1282.1 | 1269.4 | 1256.7 | 1244.0 | 1206.3 | 1168.6 | 1131.0 | 1093.3 | 1055.6 | 1017.9 |
| 102.5° | 1232.7 | 1220.4 | 1208.2 | 1195.9 | 1183.7 | 1146.7 | 1109.7 | 1072.7 | 1035.7 | 998.8 | 961.8 |
| 105° | 1180.7 | 1168.4 | 1156.2 | 1143.9 | 1131.7 | 1095.4 | 1059.1 | 1022.8 | 986.5 | 950.3 | 914.0 |
| 107.5° | 1136.0 | 1124.0 | 1112.0 | 1100.0 | 1088.0 | 1051.9 | 1015.9 | 979.8 | 943.8 | 907.7 | 871.7 |
| 110° | 1094.4 | 1082.4 | 1070.4 | 1058.4 | 1046.4 | 1010.3 | 974.3 | 938.2 | 902.1 | 866.1 | 830.0 |



TEST NUMBER: P201401

CATALOG NUMBER: 8LBLED-LD4-16-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° | 1053.8 | 1041.5 | 1029.3 | 1017.0 | 1004.8 | 969.0 | 933.1 | 897.3 | 861.5 | 825.6 | 789.8 |
| 115° | 1013.1 | 1000.6 | 988.2 | 975.7 | 963.2 | 927.4 | 891.5 | 855.7 | 819.9 | 784.0 | 748.2 |
| 117.5° | 970.3 | 957.6 | 944.9 | 932.2 | 919.5 | 883.7 | 847.8 | 812.0 | 776.2 | 740.3 | 704.5 |
| 120° | 921.3 | 908.3 | 895.4 | 882.4 | 869.5 | 834.4 | 799.2 | 764.1 | 729.0 | 693.8 | 658.7 |
| 122.5° | 864.0 | 850.8 | 837.7 | 824.5 | 811.3 | 777.6 | 743.8 | 710.1 | 676.3 | 642.6 | 608.8 |
| 125° | 803.0 | 790.5 | 778.1 | 765.6 | 753.1 | 720.3 | 687.5 | 654.6 | 621.8 | 589.0 | 556.2 |
| 127.5° | 734.6 | 722.6 | 710.5 | 698.5 | 686.5 | 656.0 | 625.5 | 595.0 | 564.5 | 533.9 | 503.4 |
| 130° | 659.2 | 648.4 | 637.5 | 626.7 | 615.8 | 588.1 | 560.3 | 532.6 | 504.8 | 477.1 | 449.3 |
| 132.5° | 594.5 | 585.2 | 576.0 | 566.7 | 557.5 | 530.9 | 504.3 | 477.8 | 451.2 | 424.6 | 398.0 |
| 135° | 528.4 | 520.1 | 511.7 | 503.4 | 495.1 | 471.3 | 447.5 | 423.7 | 399.9 | 376.0 | 352.2 |
| 137.5° | 457.7 | 449.4 | 441.0 | 432.7 | 424.4 | 405.0 | 385.6 | 366.1 | 346.7 | 327.3 | 307.9 |
| 140° | 385.5 | 378.6 | 371.7 | 364.7 | 357.8 | 342.1 | 326.4 | 310.6 | 294.9 | 279.2 | 263.5 |
| 142.5° | 327.3 | 322.5 | 317.6 | 312.8 | 307.9 | 294.5 | 281.1 | 267.7 | 254.3 | 240.8 | 227.4 |
| 145° | 279.9 | 276.0 | 272.1 | 268.1 | 264.2 | 252.6 | 241.1 | 229.5 | 218.0 | 206.4 | 194.9 |
| 147.5° | 235.5 | 232.3 | 229.1 | 225.8 | 222.6 | 212.9 | 203.2 | 193.5 | 183.8 | 174.0 | 164.3 |
| 150° | 196.2 | 193.4 | 190.7 | 187.9 | 185.1 | 176.8 | 168.5 | 160.2 | 151.9 | 143.5 | 135.2 |
| 152.5° | 159.0 | 156.7 | 154.4 | 152.1 | 149.8 | 142.9 | 135.9 | 129.0 | 122.1 | 115.1 | 108.2 |
| 155° | 125.0 | 123.4 | 121.8 | 120.2 | 118.6 | 112.8 | 107.0 | 101.3 | 95.5 | 89.7 | 83.9 |
| 157.5° | 95.0 | 93.6 | 92.3 | 90.9 | 89.5 | 84.6 | 79.8 | 74.9 | 70.1 | 65.2 | 60.4 |
| 160° | 66.1 | 65.2 | 64.2 | 63.3 | 62.4 | 58.7 | 55.0 | 51.3 | 47.6 | 43.9 | 40.2 |
| 162.5° | 39.3 | 38.8 | 38.3 | 37.9 | 37.4 | 35.6 | 33.7 | 31.9 | 30.0 | 28.2 | 26.3 |
| 165° | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.1 | 19.4 | 18.7 | 18.0 | 17.4 | 16.7 |
| 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: P201401

CATALOG NUMBER: 8LBLELD4-16-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° | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 |
| 2.5° | 2040.5 | 2043.8 | 2047.0 | 2047.9 | 2048.8 | 2049.8 | 2050.7 | 2051.6 | 2052.5 | 2053.5 | 2054.4 |
| 5° | 1997.5 | 2001.5 | 2005.4 | 2007.7 | 2010.0 | 2012.3 | 2014.6 | 2017.0 | 2019.3 | 2021.6 | 2023.9 |
| 7.5° | 1956.1 | 1961.0 | 1965.8 | 1968.8 | 1971.8 | 1974.8 | 1977.8 | 1980.9 | 1983.9 | 1986.9 | 1989.9 |
| 10° | 1910.4 | 1915.2 | 1920.1 | 1923.8 | 1927.5 | 1931.2 | 1934.9 | 1938.6 | 1942.3 | 1946.0 | 1949.7 |
| 12.5° | 1872.4 | 1877.5 | 1882.6 | 1885.4 | 1888.2 | 1890.9 | 1893.7 | 1896.5 | 1899.3 | 1902.0 | 1904.8 |
| 15° | 1832.4 | 1835.7 | 1838.9 | 1841.4 | 1844.0 | 1846.5 | 1849.1 | 1851.6 | 1854.2 | 1856.7 | 1859.3 |
| 17.5° | 1796.9 | 1797.1 | 1797.3 | 1798.7 | 1800.1 | 1801.5 | 1802.9 | 1804.2 | 1805.6 | 1807.0 | 1808.4 |
| 20° | 1766.6 | 1762.2 | 1757.8 | 1757.6 | 1757.3 | 1757.1 | 1756.9 | 1756.6 | 1756.4 | 1756.2 | 1755.9 |
| 22.5° | 1747.9 | 1739.3 | 1730.8 | 1727.3 | 1723.9 | 1720.4 | 1716.9 | 1713.5 | 1710.0 | 1706.5 | 1703.1 |
| 25° | 1740.7 | 1728.5 | 1716.2 | 1707.9 | 1699.6 | 1691.2 | 1682.9 | 1674.6 | 1666.3 | 1657.9 | 1649.6 |
| 27.5° | 1740.7 | 1726.3 | 1712.0 | 1697.2 | 1682.4 | 1667.6 | 1652.8 | 1638.1 | 1623.3 | 1608.5 | 1593.7 |
| 30° | 1739.6 | 1722.7 | 1705.8 | 1684.8 | 1663.7 | 1642.7 | 1621.7 | 1600.6 | 1579.6 | 1558.6 | 1537.5 |
| 32.5° | 1740.3 | 1719.9 | 1699.6 | 1672.8 | 1646.0 | 1619.2 | 1592.4 | 1565.5 | 1538.7 | 1511.9 | 1485.1 |
| 35° | 1743.5 | 1719.4 | 1695.4 | 1662.6 | 1629.8 | 1596.9 | 1564.1 | 1531.3 | 1498.5 | 1465.6 | 1432.8 |
| 37.5° | 1752.5 | 1725.0 | 1697.5 | 1658.9 | 1620.3 | 1581.7 | 1543.1 | 1504.5 | 1465.9 | 1427.3 | 1388.7 |
| 40° | 1768.9 | 1736.3 | 1703.7 | 1659.8 | 1615.9 | 1572.0 | 1528.1 | 1484.1 | 1440.2 | 1396.3 | 1352.4 |
| 42.5° | 1789.7 | 1750.8 | 1712.0 | 1663.2 | 1614.5 | 1565.7 | 1516.9 | 1468.2 | 1419.4 | 1370.6 | 1321.9 |
| 45° | 1816.3 | 1771.4 | 1726.6 | 1672.3 | 1618.0 | 1563.7 | 1509.4 | 1455.0 | 1400.7 | 1346.4 | 1292.1 |
| 47.5° | 1853.1 | 1801.3 | 1749.5 | 1688.9 | 1628.4 | 1567.8 | 1507.3 | 1446.7 | 1386.2 | 1325.6 | 1265.1 |
| 50° | 1898.8 | 1838.7 | 1778.6 | 1710.9 | 1643.2 | 1575.4 | 1507.7 | 1440.0 | 1372.3 | 1304.5 | 1236.8 |
| 52.5° | 1954.3 | 1885.2 | 1816.1 | 1740.7 | 1665.4 | 1590.0 | 1514.7 | 1439.3 | 1364.0 | 1288.6 | 1213.3 |
| 55° | 2018.1 | 1939.9 | 1861.8 | 1777.9 | 1694.0 | 1610.1 | 1526.2 | 1442.3 | 1358.4 | 1274.5 | 1190.6 |
| 57.5° | 2090.2 | 2003.0 | 1915.9 | 1823.0 | 1730.1 | 1637.2 | 1544.3 | 1451.3 | 1358.4 | 1265.5 | 1172.6 |
| 60° | 2166.7 | 2071.4 | 1976.2 | 1873.8 | 1771.4 | 1669.0 | 1566.6 | 1464.3 | 1361.9 | 1259.5 | 1157.1 |
| 62.5° | 2238.4 | 2136.4 | 2034.5 | 1922.9 | 1811.2 | 1699.6 | 1587.9 | 1476.3 | 1364.6 | 1253.0 | 1141.3 |
| 65° | 2299.1 | 2192.8 | 2086.5 | 1965.8 | 1845.2 | 1724.5 | 1603.9 | 1483.2 | 1362.6 | 1241.9 | 1121.3 |
| 67.5° | 2339.2 | 2230.5 | 2121.9 | 1993.6 | 1865.3 | 1737.0 | 1608.7 | 1480.5 | 1352.2 | 1223.9 | 1095.6 |
| 70° | 2349.1 | 2240.7 | 2132.3 | 1998.9 | 1865.6 | 1732.2 | 1598.8 | 1465.5 | 1332.1 | 1198.7 | 1065.4 |
| 72.5° | 2316.0 | 2210.6 | 2105.2 | 1970.7 | 1836.2 | 1701.6 | 1567.1 | 1432.6 | 1298.1 | 1163.5 | 1029.0 |
| 75° | 2246.2 | 2146.6 | 2047.0 | 1913.6 | 1780.3 | 1646.9 | 1513.5 | 1380.2 | 1246.8 | 1113.4 | 980.1 |
| 77.5° | 2129.5 | 2037.2 | 1945.0 | 1816.7 | 1688.4 | 1560.2 | 1431.9 | 1303.6 | 1175.3 | 1047.1 | 918.8 |
| 80° | 1982.3 | 1898.1 | 1814.0 | 1694.0 | 1574.1 | 1454.1 | 1334.1 | 1214.2 | 1094.2 | 974.2 | 854.3 |
| 82.5° | 1818.2 | 1743.3 | 1668.4 | 1558.8 | 1449.3 | 1339.7 | 1230.1 | 1120.6 | 1011.0 | 901.4 | 791.9 |
| 85° | 1646.2 | 1580.3 | 1514.4 | 1414.6 | 1314.7 | 1214.9 | 1115.0 | 1015.2 | 915.3 | 815.5 | 715.6 |
| 87.5° | 1479.2 | 1421.9 | 1364.6 | 1275.8 | 1187.1 | 1098.3 | 1009.6 | 920.8 | 832.1 | 743.3 | 654.6 |
| 90° | 1329.0 | 1278.2 | 1227.3 | 1147.8 | 1068.3 | 988.8 | 909.3 | 829.7 | 750.2 | 670.7 | 591.2 |
| 92.5° | 1218.1 | 1172.8 | 1127.5 | 1054.7 | 981.9 | 909.1 | 836.3 | 763.4 | 690.6 | 617.8 | 545.0 |
| 95° | 1125.9 | 1084.0 | 1042.2 | 974.9 | 907.7 | 840.4 | 773.2 | 705.9 | 638.7 | 571.4 | 504.2 |
| 97.5° | 1045.9 | 1006.6 | 967.3 | 904.9 | 842.5 | 780.1 | 717.7 | 655.2 | 592.8 | 530.4 | 468.0 |
| 100° | 980.3 | 942.6 | 904.9 | 846.0 | 787.0 | 728.1 | 669.1 | 610.2 | 551.2 | 492.3 | 433.3 |
| 102.5° | 924.8 | 887.8 | 850.8 | 794.6 | 738.5 | 682.3 | 626.1 | 570.0 | 513.8 | 457.6 | 401.5 |
| 105° | 877.7 | 841.4 | 805.1 | 750.8 | 696.5 | 642.1 | 587.8 | 533.5 | 479.2 | 424.8 | 370.5 |
| 107.5° | 835.6 | 799.6 | 763.5 | 710.8 | 658.1 | 605.4 | 552.7 | 500.0 | 447.3 | 394.6 | 341.9 |
| 110° | 793.9 | 757.9 | 721.8 | 671.2 | 620.6 | 570.0 | 519.4 | 468.7 | 418.1 | 367.5 | 316.9 |



TEST NUMBER: P201401

CATALOG NUMBER: 8LBLED-LD4-16-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° | 754.0 | 718.1 | 682.3 | 633.3 | 584.3 | 535.3 | 486.3 | 437.3 | 388.3 | 339.3 | 290.3 |
| 115° | 712.4 | 676.5 | 640.7 | 593.8 | 546.9 | 499.9 | 453.0 | 406.1 | 359.2 | 312.2 | 265.3 |
| 117.5° | 668.7 | 632.8 | 597.0 | 552.4 | 507.8 | 463.2 | 418.6 | 373.9 | 329.3 | 284.7 | 240.1 |
| 120° | 623.6 | 588.4 | 553.3 | 511.7 | 470.1 | 428.5 | 386.9 | 345.3 | 303.7 | 262.1 | 220.5 |
| 122.5° | 575.1 | 541.3 | 507.6 | 469.2 | 430.9 | 392.5 | 354.1 | 315.8 | 277.4 | 239.0 | 200.7 |
| 125° | 523.3 | 490.5 | 457.7 | 423.0 | 388.3 | 353.7 | 319.0 | 284.3 | 249.6 | 215.0 | 180.3 |
| 127.5° | 472.9 | 442.4 | 411.9 | 380.5 | 349.0 | 317.6 | 286.2 | 254.7 | 223.3 | 191.9 | 160.4 |
| 130° | 421.6 | 393.8 | 366.1 | 338.1 | 310.2 | 282.2 | 254.2 | 226.3 | 198.3 | 170.3 | 142.4 |
| 132.5° | 371.5 | 344.9 | 318.3 | 294.0 | 269.8 | 245.5 | 221.2 | 197.0 | 172.7 | 148.4 | 124.2 |
| 135° | 328.4 | 304.6 | 280.8 | 259.3 | 237.8 | 216.3 | 194.8 | 173.4 | 151.9 | 130.4 | 108.9 |
| 137.5° | 288.4 | 269.0 | 249.6 | 230.0 | 210.3 | 190.7 | 171.0 | 151.4 | 131.7 | 112.1 | 92.4 |
| 140° | 247.7 | 232.0 | 216.3 | 198.7 | 181.2 | 163.6 | 146.0 | 128.5 | 110.9 | 93.3 | 75.8 |
| 142.5° | 214.0 | 200.6 | 187.2 | 171.5 | 155.8 | 140.1 | 124.4 | 108.6 | 92.9 | 77.2 | 61.5 |
| 145° | 183.3 | 171.8 | 160.2 | 146.3 | 132.5 | 118.6 | 104.7 | 90.9 | 77.0 | 63.1 | 49.3 |
| 147.5° | 154.6 | 144.9 | 135.2 | 123.2 | 111.2 | 99.1 | 87.1 | 75.1 | 63.1 | 51.0 | 39.0 |
| 150° | 126.9 | 118.6 | 110.3 | 100.6 | 90.9 | 81.2 | 71.5 | 61.7 | 52.0 | 42.3 | 32.6 |
| 152.5° | 101.3 | 94.3 | 87.4 | 79.8 | 72.1 | 64.5 | 56.9 | 49.2 | 41.6 | 34.0 | 26.3 |
| 155° | 78.2 | 72.4 | 66.6 | 60.8 | 55.0 | 49.3 | 43.5 | 37.7 | 31.9 | 26.2 | 20.4 |
| 157.5° | 55.5 | 50.7 | 45.8 | 42.1 | 38.4 | 34.7 | 31.0 | 27.3 | 23.6 | 19.9 | 16.2 |
| 160° | 36.5 | 32.8 | 29.1 | 26.8 | 24.5 | 22.2 | 19.9 | 17.5 | 15.2 | 12.9 | 10.6 |
| 162.5° | 24.5 | 22.6 | 20.8 | 19.2 | 17.6 | 15.9 | 14.3 | 12.7 | 11.1 | 9.4 | 7.8 |
| 165° | 16.0 | 15.3 | 14.6 | 13.4 | 12.3 | 11.1 | 10.0 | 8.8 | 7.7 | 6.5 | 5.4 |
| 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: P201401

CATALOG NUMBER: 8LBLED-LD4-16-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° | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 |
| 2.5° | 2055.3 | 2061.5 | 2067.8 | 2074.0 | 2080.3 | 2086.5 | 2092.8 | 2099.0 | 2105.3 | 2111.5 | 2111.5 |
| 5° | 2026.2 | 2034.5 | 2042.8 | 2051.2 | 2059.5 | 2067.8 | 2076.1 | 2084.5 | 2092.8 | 2101.1 | 2103.6 |
| 7.5° | 1992.9 | 2002.8 | 2012.8 | 2022.7 | 2032.6 | 2042.6 | 2052.5 | 2062.4 | 2072.4 | 2082.3 | 2087.9 |
| 10° | 1953.4 | 1965.0 | 1976.5 | 1988.1 | 1999.6 | 2011.2 | 2022.7 | 2034.3 | 2045.8 | 2057.4 | 2065.5 |
| 12.5° | 1907.6 | 1920.5 | 1933.5 | 1946.4 | 1959.4 | 1972.3 | 1985.3 | 1998.2 | 2011.2 | 2024.1 | 2035.0 |
| 15° | 1861.8 | 1875.7 | 1889.5 | 1903.4 | 1917.3 | 1931.1 | 1945.0 | 1958.9 | 1972.7 | 1986.6 | 2000.0 |
| 17.5° | 1809.8 | 1824.6 | 1839.4 | 1854.2 | 1869.0 | 1883.8 | 1898.6 | 1913.4 | 1928.2 | 1943.0 | 1959.2 |
| 20° | 1755.7 | 1770.5 | 1785.3 | 1800.1 | 1814.9 | 1829.7 | 1844.5 | 1859.3 | 1874.1 | 1888.9 | 1908.3 |
| 22.5° | 1699.6 | 1714.2 | 1728.7 | 1743.3 | 1757.8 | 1772.4 | 1786.9 | 1801.5 | 1816.0 | 1830.6 | 1853.0 |
| 25° | 1641.3 | 1656.1 | 1670.9 | 1685.7 | 1700.5 | 1715.3 | 1730.1 | 1744.9 | 1759.7 | 1774.5 | 1799.5 |
| 27.5° | 1578.9 | 1592.5 | 1606.2 | 1619.8 | 1633.4 | 1647.1 | 1660.7 | 1674.3 | 1688.0 | 1701.6 | 1730.5 |
| 30° | 1516.5 | 1528.8 | 1541.0 | 1553.3 | 1565.5 | 1577.8 | 1590.0 | 1602.3 | 1614.5 | 1626.8 | 1659.4 |
| 32.5° | 1458.3 | 1468.5 | 1478.6 | 1488.8 | 1499.0 | 1509.1 | 1519.3 | 1529.5 | 1539.6 | 1549.8 | 1585.9 |
| 35° | 1400.0 | 1407.9 | 1415.7 | 1423.6 | 1431.4 | 1439.3 | 1447.1 | 1455.0 | 1462.8 | 1470.7 | 1510.5 |
| 37.5° | 1350.1 | 1354.5 | 1358.9 | 1363.3 | 1367.7 | 1372.0 | 1376.4 | 1380.8 | 1385.2 | 1389.6 | 1434.0 |
| 40° | 1308.5 | 1308.0 | 1307.6 | 1307.1 | 1306.6 | 1306.2 | 1305.7 | 1305.2 | 1304.8 | 1304.3 | 1354.2 |
| 42.5° | 1273.1 | 1267.3 | 1261.5 | 1255.8 | 1250.0 | 1244.2 | 1238.4 | 1232.7 | 1226.9 | 1221.1 | 1276.3 |
| 45° | 1237.8 | 1226.7 | 1215.6 | 1204.5 | 1193.4 | 1182.3 | 1171.2 | 1160.1 | 1149.0 | 1137.9 | 1198.5 |
| 47.5° | 1204.5 | 1187.6 | 1170.7 | 1153.9 | 1137.0 | 1120.1 | 1103.2 | 1086.4 | 1069.5 | 1052.6 | 1118.7 |
| 50° | 1169.1 | 1146.9 | 1124.7 | 1102.5 | 1080.3 | 1058.2 | 1036.0 | 1013.8 | 991.6 | 969.4 | 1041.1 |
| 52.5° | 1137.9 | 1109.9 | 1082.0 | 1054.0 | 1026.0 | 998.1 | 970.1 | 942.1 | 914.2 | 886.2 | 963.9 |
| 55° | 1106.7 | 1073.4 | 1040.1 | 1006.8 | 973.5 | 940.3 | 907.0 | 873.7 | 840.4 | 807.1 | 890.5 |
| 57.5° | 1079.7 | 1040.9 | 1002.0 | 963.2 | 924.4 | 885.5 | 846.7 | 807.9 | 769.0 | 730.2 | 819.4 |
| 60° | 1054.7 | 1010.3 | 965.9 | 921.6 | 877.2 | 832.8 | 788.4 | 744.1 | 699.7 | 655.3 | 750.5 |
| 62.5° | 1029.7 | 980.0 | 930.3 | 880.6 | 830.9 | 781.3 | 731.6 | 681.9 | 632.2 | 582.5 | 683.5 |
| 65° | 1000.6 | 946.3 | 892.0 | 837.6 | 783.3 | 729.0 | 674.7 | 620.3 | 566.0 | 511.7 | 618.0 |
| 67.5° | 967.3 | 908.6 | 849.9 | 791.2 | 732.5 | 673.7 | 615.0 | 556.3 | 497.6 | 438.9 | 550.5 |
| 70° | 932.0 | 870.0 | 808.1 | 746.1 | 684.2 | 622.2 | 560.3 | 498.3 | 436.4 | 374.4 | 489.7 |
| 72.5° | 894.5 | 829.8 | 765.1 | 700.3 | 635.6 | 570.9 | 506.2 | 441.4 | 376.7 | 312.0 | 429.7 |
| 75° | 846.7 | 780.8 | 714.9 | 649.1 | 583.2 | 517.3 | 451.4 | 385.6 | 319.7 | 253.8 | 372.6 |
| 77.5° | 790.5 | 724.9 | 659.2 | 593.6 | 527.9 | 462.3 | 396.6 | 331.0 | 265.3 | 199.7 | 317.8 |
| 80° | 734.3 | 669.4 | 604.4 | 539.5 | 474.5 | 409.6 | 344.6 | 279.7 | 214.7 | 149.8 | 266.5 |
| 82.5° | 682.3 | 617.8 | 553.3 | 488.8 | 424.3 | 359.9 | 295.4 | 230.9 | 166.4 | 101.9 | 215.6 |
| 85° | 615.8 | 554.3 | 492.8 | 431.3 | 369.8 | 308.4 | 246.9 | 185.4 | 123.9 | 62.4 | 171.5 |
| 87.5° | 565.8 | 505.7 | 445.6 | 385.5 | 325.4 | 265.4 | 205.3 | 145.2 | 85.1 | 25.0 | 128.8 |
| 90° | 511.7 | 454.8 | 398.0 | 341.1 | 284.3 | 227.4 | 170.6 | 113.7 | 56.9 | 0.0 | 97.1 |
| 92.5° | 472.2 | 419.7 | 367.3 | 314.8 | 262.3 | 209.9 | 157.4 | 104.9 | 52.5 | 0.0 | 89.9 |
| 95° | 436.9 | 388.4 | 339.8 | 291.3 | 242.7 | 194.2 | 145.6 | 97.1 | 48.5 | 0.0 | 82.7 |
| 97.5° | 405.6 | 360.5 | 315.5 | 270.4 | 225.3 | 180.3 | 135.2 | 90.1 | 45.1 | 0.0 | 75.8 |
| 100° | 374.4 | 332.8 | 291.2 | 249.6 | 208.0 | 166.4 | 124.8 | 83.2 | 41.6 | 0.0 | 69.3 |
| 102.5° | 345.3 | 307.2 | 269.0 | 230.9 | 192.8 | 154.6 | 116.5 | 78.4 | 40.2 | 2.1 | 65.2 |
| 105° | 316.2 | 281.3 | 246.4 | 211.5 | 176.6 | 141.7 | 106.8 | 71.9 | 37.0 | 2.1 | 59.7 |
| 107.5° | 289.2 | 257.1 | 224.9 | 192.8 | 160.7 | 128.5 | 96.4 | 64.3 | 32.1 | 0.0 | 52.0 |
| 110° | 266.3 | 236.7 | 207.1 | 177.5 | 147.9 | 118.4 | 88.8 | 59.2 | 29.6 | 0.0 | 46.9 |



TEST NUMBER: P201401

CATALOG NUMBER: 8LBLED-LD4-16-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° | 241.3 | 214.7 | 188.1 | 161.6 | 135.0 | 108.4 | 81.8 | 55.3 | 28.7 | 2.1 | 44.6 |
| 115° | 218.4 | 194.4 | 170.3 | 146.3 | 122.3 | 98.2 | 74.2 | 50.2 | 26.1 | 2.1 | 40.7 |
| 117.5° | 195.5 | 174.0 | 152.5 | 131.0 | 109.5 | 88.1 | 66.6 | 45.1 | 23.6 | 2.1 | 37.0 |
| 120° | 178.9 | 159.3 | 139.6 | 120.0 | 100.3 | 80.7 | 61.0 | 41.4 | 21.7 | 2.1 | 33.8 |
| 122.5° | 162.3 | 144.5 | 126.7 | 108.9 | 91.1 | 73.3 | 55.5 | 37.7 | 19.9 | 2.1 | 30.3 |
| 125° | 145.6 | 129.7 | 113.7 | 97.8 | 81.8 | 65.9 | 49.9 | 34.0 | 18.0 | 2.1 | 26.8 |
| 127.5° | 129.0 | 114.9 | 100.8 | 86.7 | 72.6 | 58.5 | 44.4 | 30.3 | 16.2 | 2.1 | 22.9 |
| 130° | 114.4 | 101.9 | 89.4 | 77.0 | 64.5 | 52.0 | 39.5 | 27.1 | 14.6 | 2.1 | 19.2 |
| 132.5° | 99.9 | 89.0 | 78.2 | 67.3 | 56.4 | 45.6 | 34.7 | 23.8 | 13.0 | 2.1 | 15.7 |
| 135° | 87.4 | 77.9 | 68.4 | 59.0 | 49.5 | 40.0 | 30.5 | 21.1 | 11.6 | 2.1 | 12.7 |
| 137.5° | 72.8 | 64.9 | 57.1 | 49.2 | 41.4 | 33.5 | 25.7 | 17.8 | 10.0 | 2.1 | 9.7 |
| 140° | 58.2 | 52.0 | 45.7 | 39.5 | 33.3 | 27.0 | 20.8 | 14.6 | 8.3 | 2.1 | 7.4 |
| 142.5° | 45.8 | 40.9 | 36.1 | 31.2 | 26.4 | 21.5 | 16.7 | 11.8 | 7.0 | 2.1 | 5.6 |
| 145° | 35.4 | 31.7 | 28.0 | 24.3 | 20.6 | 16.9 | 13.2 | 9.5 | 5.8 | 2.1 | 4.4 |
| 147.5° | 27.0 | 24.2 | 21.5 | 18.7 | 15.9 | 13.2 | 10.4 | 7.6 | 4.9 | 2.1 | 3.9 |
| 150° | 22.9 | 20.6 | 18.3 | 16.0 | 13.7 | 11.3 | 9.0 | 6.7 | 4.4 | 2.1 | 3.3 |
| 152.5° | 18.7 | 17.1 | 15.5 | 13.9 | 12.3 | 10.6 | 9.0 | 7.4 | 5.8 | 4.2 | 4.9 |
| 155° | 14.6 | 13.4 | 12.3 | 11.1 | 10.0 | 8.8 | 7.7 | 6.5 | 5.4 | 4.2 | 4.7 |
| 157.5° | 12.5 | 11.6 | 10.7 | 9.7 | 8.8 | 7.9 | 7.0 | 6.0 | 5.1 | 4.2 | 4.4 |
| 160° | 8.3 | 7.8 | 7.4 | 6.9 | 6.5 | 6.0 | 5.6 | 5.1 | 4.7 | 4.2 | 4.2 |
| 162.5° | 6.2 | 5.7 | 5.3 | 4.8 | 4.4 | 3.9 | 3.5 | 3.0 | 2.6 | 2.1 | 2.1 |
| 165° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P201401

CATALOG NUMBER: 8LBLELD4-16-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° | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 |
| 2.5° | 2111.5 | 2111.5 | 2111.5 | 2111.5 | 2111.5 | 2111.5 | 2111.5 | 2111.5 | 2113.6 | 2115.7 | 2117.7 |
| 5° | 2106.2 | 2108.7 | 2111.2 | 2113.8 | 2116.3 | 2118.8 | 2121.4 | 2123.9 | 2128.3 | 2132.7 | 2137.1 |
| 7.5° | 2093.4 | 2099.0 | 2104.5 | 2110.1 | 2115.6 | 2121.2 | 2126.7 | 2132.3 | 2139.0 | 2145.7 | 2152.4 |
| 10° | 2073.6 | 2081.7 | 2089.8 | 2097.8 | 2105.9 | 2114.0 | 2122.1 | 2130.2 | 2139.4 | 2148.7 | 2157.9 |
| 12.5° | 2045.8 | 2056.7 | 2067.6 | 2078.4 | 2089.3 | 2100.2 | 2111.0 | 2121.9 | 2133.9 | 2145.9 | 2157.9 |
| 15° | 2013.4 | 2026.8 | 2040.2 | 2053.7 | 2067.1 | 2080.5 | 2093.9 | 2107.3 | 2122.6 | 2137.8 | 2153.1 |
| 17.5° | 1975.4 | 1991.5 | 2007.7 | 2023.9 | 2040.1 | 2056.2 | 2072.4 | 2088.6 | 2107.3 | 2126.0 | 2144.8 |
| 20° | 1927.7 | 1947.1 | 1966.5 | 1986.0 | 2005.4 | 2024.8 | 2044.2 | 2063.6 | 2086.3 | 2108.9 | 2131.6 |
| 22.5° | 1875.4 | 1897.9 | 1920.3 | 1942.7 | 1965.1 | 1987.6 | 2010.0 | 2032.4 | 2060.6 | 2088.8 | 2117.0 |
| 25° | 1824.4 | 1849.4 | 1874.3 | 1899.3 | 1924.2 | 1949.2 | 1974.1 | 1999.1 | 2033.8 | 2068.5 | 2103.1 |
| 27.5° | 1759.4 | 1788.3 | 1817.2 | 1846.1 | 1875.0 | 1903.9 | 1932.8 | 1961.7 | 2003.3 | 2044.9 | 2086.5 |
| 30° | 1692.0 | 1724.6 | 1757.2 | 1789.7 | 1822.3 | 1854.9 | 1887.5 | 1920.1 | 1968.4 | 2016.7 | 2065.0 |
| 32.5° | 1621.9 | 1658.0 | 1694.0 | 1730.1 | 1766.1 | 1802.2 | 1838.2 | 1874.3 | 1930.2 | 1986.2 | 2042.1 |
| 35° | 1550.2 | 1590.0 | 1629.7 | 1669.5 | 1709.2 | 1749.0 | 1788.7 | 1828.5 | 1891.8 | 1955.2 | 2018.5 |
| 37.5° | 1478.4 | 1522.7 | 1567.1 | 1611.5 | 1655.9 | 1700.2 | 1744.6 | 1789.0 | 1859.3 | 1929.5 | 1999.8 |
| 40° | 1404.2 | 1454.1 | 1504.0 | 1554.0 | 1603.9 | 1653.8 | 1703.8 | 1753.7 | 1831.1 | 1908.5 | 1986.0 |
| 42.5° | 1331.6 | 1386.8 | 1442.1 | 1497.3 | 1552.6 | 1607.8 | 1663.1 | 1718.3 | 1803.8 | 1889.3 | 1974.9 |
| 45° | 1259.0 | 1319.6 | 1380.1 | 1440.7 | 1501.2 | 1561.8 | 1622.3 | 1682.9 | 1777.4 | 1872.0 | 1966.5 |
| 47.5° | 1184.8 | 1250.9 | 1317.0 | 1383.2 | 1449.3 | 1515.4 | 1581.5 | 1647.6 | 1751.8 | 1856.1 | 1960.3 |
| 50° | 1112.7 | 1184.4 | 1256.0 | 1327.7 | 1399.3 | 1471.0 | 1542.6 | 1614.3 | 1728.2 | 1842.2 | 1956.1 |
| 52.5° | 1041.5 | 1119.2 | 1196.9 | 1274.5 | 1352.2 | 1429.9 | 1507.5 | 1585.2 | 1710.2 | 1835.3 | 1960.3 |
| 55° | 974.0 | 1057.4 | 1140.9 | 1224.3 | 1307.8 | 1391.2 | 1474.7 | 1558.1 | 1696.6 | 1835.0 | 1973.5 |
| 57.5° | 908.6 | 997.8 | 1087.0 | 1176.3 | 1265.5 | 1354.7 | 1443.9 | 1533.1 | 1684.7 | 1836.4 | 1988.0 |
| 60° | 845.7 | 941.0 | 1036.2 | 1131.4 | 1226.6 | 1321.9 | 1417.1 | 1512.3 | 1678.3 | 1844.2 | 2010.2 |
| 62.5° | 784.5 | 885.5 | 986.5 | 1087.5 | 1188.5 | 1289.5 | 1390.5 | 1491.5 | 1672.3 | 1853.0 | 2033.8 |
| 65° | 724.4 | 830.7 | 937.0 | 1043.4 | 1149.7 | 1256.0 | 1362.4 | 1468.7 | 1663.5 | 1858.4 | 2053.2 |
| 67.5° | 662.2 | 773.8 | 885.5 | 997.1 | 1108.8 | 1220.4 | 1332.1 | 1443.7 | 1650.8 | 1857.9 | 2065.0 |
| 70° | 605.1 | 720.4 | 835.8 | 951.1 | 1066.5 | 1181.8 | 1297.2 | 1412.5 | 1628.6 | 1844.7 | 2060.8 |
| 72.5° | 547.3 | 665.0 | 782.6 | 900.3 | 1017.9 | 1135.6 | 1253.2 | 1370.9 | 1591.4 | 1811.9 | 2032.4 |
| 75° | 491.4 | 610.2 | 729.0 | 847.8 | 966.6 | 1085.4 | 1204.2 | 1323.0 | 1542.6 | 1762.2 | 1981.8 |
| 77.5° | 435.9 | 554.0 | 672.1 | 790.3 | 908.4 | 1026.5 | 1144.6 | 1262.7 | 1475.6 | 1688.5 | 1901.3 |
| 80° | 383.2 | 500.0 | 616.7 | 733.4 | 850.1 | 966.9 | 1083.6 | 1200.3 | 1401.4 | 1602.5 | 1803.6 |
| 82.5° | 329.3 | 443.1 | 556.8 | 670.5 | 784.2 | 898.0 | 1011.7 | 1125.4 | 1313.1 | 1500.8 | 1688.5 |
| 85° | 280.6 | 389.7 | 498.8 | 607.9 | 717.0 | 826.1 | 935.2 | 1044.3 | 1216.3 | 1388.2 | 1560.2 |
| 87.5° | 232.6 | 336.3 | 440.1 | 543.9 | 647.7 | 751.4 | 855.2 | 959.0 | 1115.0 | 1271.0 | 1427.1 |
| 90° | 194.2 | 291.2 | 388.3 | 485.4 | 582.5 | 679.5 | 776.6 | 873.7 | 1015.6 | 1157.5 | 1299.5 |
| 92.5° | 179.8 | 269.7 | 359.6 | 449.6 | 539.5 | 629.4 | 719.3 | 809.2 | 938.2 | 1067.2 | 1196.1 |
| 95° | 165.5 | 248.2 | 331.0 | 413.7 | 496.5 | 579.2 | 662.0 | 744.7 | 863.5 | 982.3 | 1101.1 |
| 97.5° | 151.6 | 227.4 | 303.2 | 379.1 | 454.9 | 530.7 | 606.5 | 682.3 | 792.6 | 902.8 | 1013.1 |
| 100° | 138.7 | 208.0 | 277.4 | 346.7 | 416.1 | 485.4 | 554.8 | 624.1 | 727.6 | 831.2 | 934.7 |
| 102.5° | 128.3 | 191.4 | 254.5 | 317.6 | 380.7 | 443.8 | 506.9 | 570.0 | 668.2 | 766.5 | 864.7 |
| 105° | 117.2 | 174.8 | 232.3 | 289.9 | 347.4 | 405.0 | 462.5 | 520.1 | 613.5 | 706.9 | 800.2 |
| 107.5° | 104.0 | 156.0 | 208.0 | 260.1 | 312.1 | 364.1 | 416.1 | 468.1 | 557.8 | 647.5 | 737.1 |
| 110° | 93.8 | 140.8 | 187.7 | 234.6 | 281.5 | 328.5 | 375.4 | 422.3 | 507.8 | 593.3 | 678.9 |



TEST NUMBER: P201401

CATALOG NUMBER: 8LBLED-LD4-16-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° | 87.1 | 129.7 | 172.2 | 214.7 | 257.2 | 299.8 | 342.3 | 384.8 | 466.2 | 547.5 | 628.9 |
| 115° | 79.3 | 117.9 | 156.5 | 195.1 | 233.7 | 272.3 | 310.9 | 349.5 | 427.2 | 504.8 | 582.5 |
| 117.5° | 71.9 | 106.8 | 141.7 | 176.6 | 211.5 | 246.4 | 281.3 | 316.2 | 389.9 | 463.7 | 537.4 |
| 120° | 65.4 | 97.1 | 128.8 | 160.4 | 192.1 | 223.8 | 255.4 | 287.1 | 355.7 | 424.4 | 493.0 |
| 122.5° | 58.5 | 86.7 | 114.9 | 143.1 | 171.3 | 199.5 | 227.7 | 255.9 | 319.2 | 382.6 | 445.9 |
| 125° | 51.6 | 76.3 | 101.0 | 125.8 | 150.5 | 175.2 | 200.0 | 224.7 | 283.4 | 342.1 | 400.8 |
| 127.5° | 43.7 | 64.5 | 85.3 | 106.1 | 126.9 | 147.7 | 168.5 | 189.3 | 244.1 | 298.9 | 353.6 |
| 130° | 36.3 | 53.4 | 70.5 | 87.6 | 104.7 | 121.8 | 138.9 | 156.0 | 205.5 | 254.9 | 304.4 |
| 132.5° | 29.4 | 43.0 | 56.6 | 70.3 | 83.9 | 97.5 | 111.2 | 124.8 | 168.7 | 212.6 | 256.6 |
| 135° | 23.4 | 34.0 | 44.6 | 55.3 | 65.9 | 76.5 | 87.2 | 97.8 | 135.7 | 173.6 | 211.5 |
| 137.5° | 17.3 | 25.0 | 32.6 | 40.2 | 47.8 | 55.5 | 63.1 | 70.7 | 103.8 | 136.8 | 169.9 |
| 140° | 12.7 | 18.0 | 23.3 | 28.7 | 34.0 | 39.3 | 44.6 | 49.9 | 78.6 | 107.2 | 135.9 |
| 142.5° | 9.0 | 12.5 | 16.0 | 19.4 | 22.9 | 26.4 | 29.8 | 33.3 | 57.6 | 81.8 | 106.1 |
| 145° | 6.7 | 9.0 | 11.3 | 13.7 | 16.0 | 18.3 | 20.6 | 22.9 | 42.5 | 62.2 | 81.8 |
| 147.5° | 5.8 | 7.6 | 9.5 | 11.3 | 13.2 | 15.0 | 16.9 | 18.7 | 34.0 | 49.2 | 64.5 |
| 150° | 4.4 | 5.6 | 6.7 | 7.9 | 9.0 | 10.2 | 11.3 | 12.5 | 24.1 | 35.6 | 47.2 |
| 152.5° | 5.6 | 6.3 | 7.0 | 7.6 | 8.3 | 9.0 | 9.7 | 10.4 | 18.3 | 26.1 | 34.0 |
| 155° | 5.1 | 5.6 | 6.0 | 6.5 | 6.9 | 7.4 | 7.8 | 8.3 | 12.9 | 17.5 | 22.2 |
| 157.5° | 4.6 | 4.9 | 5.1 | 5.3 | 5.5 | 5.8 | 6.0 | 6.2 | 8.7 | 11.3 | 13.8 |
| 160° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 5.4 | 6.5 | 7.7 |
| 162.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.6 | 3.0 | 3.5 |
| 165° | 3.7 | 3.5 | 3.3 | 3.0 | 2.8 | 2.6 | 2.3 | 2.1 | 1.9 | 1.6 | 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: P201401

CATALOG NUMBER: 8LBLELD4-16-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° | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 |
| 2.5° | 2119.8 | 2121.9 | 2124.0 | 2126.0 | 2128.1 | 2130.2 | 2131.4 | 2132.5 | 2133.7 | 2134.8 | 2136.0 |
| 5° | 2141.5 | 2145.9 | 2150.3 | 2154.7 | 2159.1 | 2163.5 | 2165.8 | 2168.1 | 2170.4 | 2172.7 | 2175.1 |
| 7.5° | 2159.1 | 2165.8 | 2172.5 | 2179.2 | 2185.9 | 2192.6 | 2196.8 | 2200.9 | 2205.1 | 2209.2 | 2213.4 |
| 10° | 2167.2 | 2176.4 | 2185.7 | 2194.9 | 2204.2 | 2213.4 | 2220.1 | 2226.8 | 2233.5 | 2240.2 | 2246.9 |
| 12.5° | 2169.9 | 2182.0 | 2194.0 | 2206.0 | 2218.0 | 2230.0 | 2239.0 | 2248.0 | 2257.1 | 2266.1 | 2275.1 |
| 15° | 2168.3 | 2183.6 | 2198.8 | 2214.1 | 2229.3 | 2244.6 | 2256.2 | 2267.7 | 2279.3 | 2290.8 | 2302.4 |
| 17.5° | 2163.5 | 2182.2 | 2200.9 | 2219.7 | 2238.4 | 2257.1 | 2273.0 | 2289.0 | 2304.9 | 2320.9 | 2336.8 |
| 20° | 2154.2 | 2176.9 | 2199.5 | 2222.2 | 2244.8 | 2267.5 | 2288.8 | 2310.0 | 2331.3 | 2352.6 | 2373.8 |
| 22.5° | 2145.2 | 2173.4 | 2201.6 | 2229.8 | 2258.0 | 2286.2 | 2311.2 | 2336.1 | 2361.1 | 2386.1 | 2411.0 |
| 25° | 2137.8 | 2172.5 | 2207.2 | 2241.8 | 2276.5 | 2311.2 | 2339.6 | 2368.0 | 2396.5 | 2424.9 | 2453.3 |
| 27.5° | 2128.1 | 2169.7 | 2211.3 | 2252.9 | 2294.5 | 2336.1 | 2367.8 | 2399.4 | 2431.1 | 2462.8 | 2494.4 |
| 30° | 2113.3 | 2161.6 | 2209.9 | 2258.2 | 2306.5 | 2354.8 | 2390.9 | 2426.9 | 2463.0 | 2499.1 | 2535.1 |
| 32.5° | 2098.0 | 2154.0 | 2209.9 | 2265.8 | 2321.8 | 2377.7 | 2418.6 | 2459.5 | 2500.4 | 2541.3 | 2582.3 |
| 35° | 2081.8 | 2145.2 | 2208.5 | 2271.8 | 2335.2 | 2398.5 | 2445.2 | 2491.9 | 2538.6 | 2585.3 | 2631.9 |
| 37.5° | 2070.1 | 2140.3 | 2210.6 | 2280.9 | 2351.1 | 2421.4 | 2475.3 | 2529.1 | 2583.0 | 2636.8 | 2690.7 |
| 40° | 2063.4 | 2140.8 | 2218.2 | 2295.7 | 2373.1 | 2450.5 | 2512.2 | 2573.9 | 2635.7 | 2697.4 | 2759.1 |
| 42.5° | 2060.4 | 2145.9 | 2231.4 | 2317.0 | 2402.5 | 2488.0 | 2559.0 | 2629.9 | 2700.9 | 2771.8 | 2842.8 |
| 45° | 2061.0 | 2155.6 | 2250.1 | 2344.6 | 2439.2 | 2533.7 | 2615.3 | 2696.9 | 2778.5 | 2860.1 | 2941.7 |
| 47.5° | 2064.6 | 2168.8 | 2273.1 | 2377.3 | 2481.6 | 2585.8 | 2679.9 | 2773.9 | 2868.0 | 2962.1 | 3056.1 |
| 50° | 2070.1 | 2184.0 | 2298.0 | 2411.9 | 2525.9 | 2639.8 | 2748.2 | 2856.6 | 2965.0 | 3073.4 | 3181.9 |
| 52.5° | 2085.4 | 2210.4 | 2335.5 | 2460.5 | 2585.6 | 2710.6 | 2833.8 | 2957.0 | 3080.2 | 3203.4 | 3326.5 |
| 55° | 2111.9 | 2250.4 | 2388.8 | 2527.3 | 2665.7 | 2804.2 | 2941.3 | 3078.3 | 3215.4 | 3352.5 | 3489.5 |
| 57.5° | 2139.6 | 2291.3 | 2442.9 | 2594.5 | 2746.2 | 2897.8 | 3049.0 | 3200.1 | 3351.3 | 3502.5 | 3653.6 |
| 60° | 2176.2 | 2342.1 | 2508.1 | 2674.1 | 2840.0 | 3006.0 | 3169.4 | 3332.8 | 3496.2 | 3659.6 | 3823.1 |
| 62.5° | 2214.5 | 2395.3 | 2576.0 | 2756.8 | 2937.5 | 3118.3 | 3291.7 | 3465.0 | 3638.4 | 3811.7 | 3985.1 |
| 65° | 2248.1 | 2442.9 | 2637.8 | 2832.6 | 3027.5 | 3222.3 | 3402.4 | 3582.4 | 3762.5 | 3942.5 | 4122.6 |
| 67.5° | 2272.1 | 2479.2 | 2686.3 | 2893.4 | 3100.5 | 3307.6 | 3490.4 | 3673.3 | 3856.1 | 4038.9 | 4221.8 |
| 70° | 2276.9 | 2493.1 | 2709.2 | 2925.3 | 3141.4 | 3357.5 | 3539.4 | 3721.3 | 3903.2 | 4085.1 | 4267.1 |
| 72.5° | 2252.9 | 2473.4 | 2693.9 | 2914.4 | 3134.9 | 3355.4 | 3532.9 | 3710.4 | 3888.0 | 4065.5 | 4243.0 |
| 75° | 2201.4 | 2420.9 | 2640.5 | 2860.1 | 3079.7 | 3299.3 | 3469.0 | 3638.6 | 3808.3 | 3977.9 | 4147.6 |
| 77.5° | 2114.2 | 2327.1 | 2540.0 | 2752.8 | 2965.7 | 3178.6 | 3340.6 | 3502.7 | 3664.7 | 3826.7 | 3988.8 |
| 80° | 2004.7 | 2205.7 | 2406.8 | 2607.9 | 2809.0 | 3010.1 | 3160.3 | 3310.6 | 3460.8 | 3611.1 | 3761.3 |
| 82.5° | 1876.2 | 2063.8 | 2251.5 | 2439.2 | 2626.9 | 2814.6 | 2951.2 | 3087.8 | 3224.4 | 3361.0 | 3497.6 |
| 85° | 1732.2 | 1904.1 | 2076.1 | 2248.1 | 2420.0 | 2592.0 | 2716.1 | 2840.2 | 2964.4 | 3088.5 | 3212.6 |
| 87.5° | 1583.1 | 1739.1 | 1895.1 | 2051.2 | 2207.2 | 2363.2 | 2474.8 | 2586.5 | 2698.1 | 2809.7 | 2921.4 |
| 90° | 1441.4 | 1583.3 | 1725.2 | 1867.2 | 2009.1 | 2151.0 | 2251.5 | 2352.1 | 2452.6 | 2553.2 | 2653.7 |
| 92.5° | 1325.1 | 1454.1 | 1583.1 | 1712.0 | 1841.0 | 1970.0 | 2062.0 | 2154.0 | 2246.0 | 2338.0 | 2429.9 |
| 95° | 1219.9 | 1338.8 | 1457.6 | 1576.4 | 1695.2 | 1814.0 | 1900.9 | 1987.8 | 2074.7 | 2161.6 | 2248.6 |
| 97.5° | 1123.3 | 1233.6 | 1343.8 | 1454.1 | 1564.3 | 1674.6 | 1756.0 | 1837.3 | 1918.7 | 2000.1 | 2081.4 |
| 100° | 1038.3 | 1141.8 | 1245.4 | 1348.9 | 1452.5 | 1556.0 | 1634.4 | 1712.7 | 1791.1 | 1869.4 | 1947.8 |
| 102.5° | 962.9 | 1061.2 | 1159.4 | 1257.6 | 1355.9 | 1454.1 | 1530.1 | 1606.2 | 1682.2 | 1758.3 | 1834.3 |
| 105° | 893.6 | 987.0 | 1080.4 | 1173.7 | 1267.1 | 1360.5 | 1434.2 | 1508.0 | 1581.7 | 1655.4 | 1729.2 |
| 107.5° | 826.8 | 916.5 | 1006.2 | 1095.8 | 1185.5 | 1275.2 | 1348.0 | 1420.8 | 1493.6 | 1566.4 | 1639.3 |
| 110° | 764.4 | 849.9 | 935.4 | 1021.0 | 1106.5 | 1192.0 | 1263.7 | 1335.3 | 1407.0 | 1478.6 | 1550.3 |



TEST NUMBER: P201401

CATALOG NUMBER: 8LBLED-LD4-16-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° | 710.3 | 791.6 | 873.0 | 954.4 | 1035.7 | 1117.1 | 1186.7 | 1256.3 | 1325.8 | 1395.4 | 1465.0 |
| 115° | 660.1 | 737.8 | 815.4 | 893.1 | 970.7 | 1048.4 | 1114.7 | 1181.1 | 1247.4 | 1313.8 | 1380.1 |
| 117.5° | 611.1 | 684.9 | 758.6 | 832.3 | 906.1 | 979.8 | 1043.4 | 1106.9 | 1170.5 | 1234.1 | 1297.6 |
| 120° | 561.7 | 630.3 | 699.0 | 767.6 | 836.3 | 904.9 | 967.1 | 1029.3 | 1091.4 | 1153.6 | 1215.8 |
| 122.5° | 509.2 | 572.6 | 635.9 | 699.2 | 762.6 | 825.9 | 886.7 | 947.5 | 1008.3 | 1069.1 | 1129.8 |
| 125° | 459.5 | 518.3 | 577.0 | 635.7 | 694.4 | 753.1 | 810.6 | 868.2 | 925.7 | 983.3 | 1040.8 |
| 127.5° | 408.4 | 463.2 | 518.0 | 572.7 | 627.5 | 682.3 | 735.0 | 787.7 | 840.4 | 893.1 | 945.8 |
| 130° | 353.9 | 403.3 | 452.8 | 502.3 | 551.7 | 601.2 | 649.5 | 697.8 | 746.1 | 794.4 | 842.8 |
| 132.5° | 300.5 | 344.4 | 388.3 | 432.3 | 476.2 | 520.1 | 565.6 | 611.2 | 656.7 | 702.2 | 747.8 |
| 135° | 249.4 | 287.3 | 325.2 | 363.1 | 401.0 | 438.9 | 483.1 | 527.2 | 571.4 | 615.5 | 659.7 |
| 137.5° | 202.9 | 236.0 | 269.0 | 302.1 | 335.1 | 368.2 | 408.9 | 449.6 | 490.2 | 530.9 | 571.6 |
| 140° | 164.6 | 193.2 | 221.9 | 250.6 | 279.2 | 307.9 | 342.6 | 377.2 | 411.9 | 446.6 | 481.2 |
| 142.5° | 130.4 | 154.6 | 178.9 | 203.2 | 227.4 | 251.7 | 281.3 | 310.9 | 340.5 | 370.1 | 399.6 |
| 145° | 101.5 | 121.1 | 140.8 | 160.4 | 180.1 | 199.7 | 224.2 | 248.7 | 273.2 | 297.7 | 322.2 |
| 147.5° | 79.7 | 95.0 | 110.2 | 125.5 | 140.7 | 156.0 | 176.1 | 196.2 | 216.3 | 236.4 | 256.6 |
| 150° | 58.7 | 70.3 | 81.8 | 93.4 | 104.9 | 116.5 | 133.6 | 150.7 | 167.8 | 184.9 | 202.0 |
| 152.5° | 41.8 | 49.7 | 57.5 | 65.4 | 73.2 | 81.1 | 94.7 | 108.4 | 122.0 | 135.7 | 149.3 |
| 155° | 26.8 | 31.4 | 36.0 | 40.7 | 45.3 | 49.9 | 60.5 | 71.2 | 81.8 | 92.4 | 103.1 |
| 157.5° | 16.4 | 18.9 | 21.5 | 24.0 | 26.6 | 29.1 | 36.7 | 44.4 | 52.0 | 59.6 | 67.3 |
| 160° | 8.8 | 10.0 | 11.1 | 12.3 | 13.4 | 14.6 | 19.0 | 23.4 | 27.8 | 32.2 | 36.5 |
| 162.5° | 3.9 | 4.4 | 4.8 | 5.3 | 5.7 | 6.2 | 8.3 | 10.4 | 12.5 | 14.6 | 16.6 |
| 165° | 1.2 | 0.9 | 0.7 | 0.5 | 0.2 | 0.0 | 0.7 | 1.4 | 2.1 | 2.8 | 3.4 |
| 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: P201401

CATALOG NUMBER: 8LBLELD4-16-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° | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 | 2080.3 |
| 2.5° | 2137.1 | 2138.3 | 2139.4 | 2140.6 | 2138.5 | 2136.4 | 2134.4 | 2132.3 | 2130.2 | 2128.1 | 2126.1 |
| 5° | 2177.4 | 2179.7 | 2182.0 | 2184.3 | 2184.3 | 2184.3 | 2184.3 | 2184.3 | 2184.3 | 2184.3 | 2184.3 |
| 7.5° | 2217.5 | 2221.7 | 2225.8 | 2230.0 | 2230.5 | 2230.9 | 2231.4 | 2231.9 | 2232.3 | 2232.8 | 2233.3 |
| 10° | 2253.6 | 2260.3 | 2267.0 | 2273.7 | 2274.4 | 2275.1 | 2275.8 | 2276.5 | 2277.2 | 2277.9 | 2278.6 |
| 12.5° | 2284.1 | 2293.2 | 2302.2 | 2311.2 | 2313.5 | 2315.8 | 2318.1 | 2320.4 | 2322.8 | 2325.1 | 2327.4 |
| 15° | 2313.9 | 2325.5 | 2337.0 | 2348.6 | 2352.8 | 2356.9 | 2361.1 | 2365.3 | 2369.4 | 2373.6 | 2377.8 |
| 17.5° | 2352.8 | 2368.7 | 2384.7 | 2400.6 | 2406.4 | 2412.2 | 2417.9 | 2423.7 | 2429.5 | 2435.3 | 2441.0 |
| 20° | 2395.1 | 2416.4 | 2437.6 | 2458.9 | 2465.8 | 2472.8 | 2479.7 | 2486.6 | 2493.6 | 2500.5 | 2507.4 |
| 22.5° | 2436.0 | 2461.0 | 2485.9 | 2510.9 | 2519.7 | 2528.5 | 2537.2 | 2546.0 | 2554.8 | 2563.6 | 2572.3 |
| 25° | 2481.7 | 2510.2 | 2538.6 | 2567.0 | 2576.2 | 2585.5 | 2594.7 | 2604.0 | 2613.2 | 2622.5 | 2631.7 |
| 27.5° | 2526.1 | 2557.8 | 2589.4 | 2621.1 | 2632.2 | 2643.3 | 2654.4 | 2665.5 | 2676.6 | 2687.7 | 2698.8 |
| 30° | 2571.2 | 2607.3 | 2643.3 | 2679.4 | 2692.6 | 2705.7 | 2718.9 | 2732.1 | 2745.2 | 2758.4 | 2771.6 |
| 32.5° | 2623.2 | 2664.1 | 2705.0 | 2745.9 | 2761.9 | 2777.8 | 2793.8 | 2809.7 | 2825.7 | 2841.6 | 2857.6 |
| 35° | 2678.6 | 2725.3 | 2772.0 | 2818.7 | 2837.9 | 2857.1 | 2876.3 | 2895.5 | 2914.6 | 2933.8 | 2953.0 |
| 37.5° | 2744.5 | 2798.4 | 2852.2 | 2906.1 | 2929.0 | 2951.9 | 2974.8 | 2997.7 | 3020.5 | 3043.4 | 3066.3 |
| 40° | 2820.8 | 2882.6 | 2944.3 | 3006.0 | 3033.3 | 3060.5 | 3087.8 | 3115.1 | 3142.3 | 3169.6 | 3196.9 |
| 42.5° | 2913.7 | 2984.7 | 3055.6 | 3126.6 | 3158.3 | 3189.9 | 3221.6 | 3253.3 | 3284.9 | 3316.6 | 3348.3 |
| 45° | 3023.3 | 3104.9 | 3186.5 | 3268.1 | 3304.8 | 3341.6 | 3378.3 | 3415.1 | 3451.8 | 3488.6 | 3525.3 |
| 47.5° | 3150.2 | 3244.3 | 3338.3 | 3432.4 | 3474.2 | 3516.1 | 3557.9 | 3599.7 | 3641.6 | 3683.4 | 3725.2 |
| 50° | 3290.3 | 3398.7 | 3507.1 | 3615.5 | 3662.9 | 3710.3 | 3757.6 | 3805.0 | 3852.4 | 3899.8 | 3947.1 |
| 52.5° | 3449.7 | 3572.9 | 3696.1 | 3819.3 | 3872.0 | 3924.7 | 3977.4 | 4030.1 | 4082.8 | 4135.5 | 4188.2 |
| 55° | 3626.6 | 3763.7 | 3900.7 | 4037.8 | 4094.4 | 4151.0 | 4207.7 | 4264.3 | 4320.9 | 4377.5 | 4434.2 |
| 57.5° | 3804.8 | 3956.0 | 4107.1 | 4258.3 | 4318.4 | 4378.5 | 4438.6 | 4498.7 | 4558.7 | 4618.8 | 4678.9 |
| 60° | 3986.5 | 4149.9 | 4313.3 | 4476.7 | 4538.6 | 4600.6 | 4662.5 | 4724.5 | 4786.4 | 4848.4 | 4910.3 |
| 62.5° | 4158.4 | 4331.8 | 4505.1 | 4678.5 | 4740.2 | 4801.9 | 4863.6 | 4925.3 | 4987.1 | 5048.8 | 5110.5 |
| 65° | 4302.6 | 4482.7 | 4662.7 | 4842.8 | 4903.1 | 4963.5 | 5023.8 | 5084.1 | 5144.5 | 5204.8 | 5265.1 |
| 67.5° | 4404.6 | 4587.4 | 4770.3 | 4953.1 | 5012.0 | 5071.0 | 5129.9 | 5188.8 | 5247.8 | 5306.7 | 5365.6 |
| 70° | 4449.0 | 4630.9 | 4812.8 | 4994.7 | 5051.3 | 5108.0 | 5164.6 | 5221.2 | 5277.9 | 5334.5 | 5391.1 |
| 72.5° | 4420.5 | 4598.1 | 4775.6 | 4953.1 | 5007.2 | 5061.3 | 5115.4 | 5169.5 | 5223.5 | 5277.6 | 5331.7 |
| 75° | 4317.2 | 4486.9 | 4656.5 | 4826.2 | 4877.7 | 4929.3 | 4980.8 | 5032.4 | 5083.9 | 5135.5 | 5187.0 |
| 77.5° | 4150.8 | 4312.8 | 4474.9 | 4636.9 | 4683.8 | 4730.7 | 4777.7 | 4824.6 | 4871.5 | 4918.4 | 4965.4 |
| 80° | 3911.6 | 4061.8 | 4212.1 | 4362.3 | 4406.7 | 4451.1 | 4495.4 | 4539.8 | 4584.2 | 4628.6 | 4672.9 |
| 82.5° | 3634.2 | 3770.8 | 3907.4 | 4044.0 | 4085.6 | 4127.2 | 4168.8 | 4210.4 | 4252.1 | 4293.7 | 4335.3 |
| 85° | 3336.7 | 3460.9 | 3585.0 | 3709.1 | 3747.7 | 3786.3 | 3824.9 | 3863.5 | 3902.1 | 3940.7 | 3979.3 |
| 87.5° | 3033.0 | 3144.6 | 3256.3 | 3367.9 | 3404.4 | 3440.9 | 3477.5 | 3514.0 | 3550.5 | 3587.0 | 3623.6 |
| 90° | 2754.3 | 2854.8 | 2955.4 | 3055.9 | 3090.6 | 3125.2 | 3159.9 | 3194.6 | 3229.2 | 3263.9 | 3298.6 |
| 92.5° | 2521.9 | 2613.9 | 2705.9 | 2797.9 | 2830.7 | 2863.5 | 2896.4 | 2929.2 | 2962.0 | 2994.8 | 3027.7 |
| 95° | 2335.5 | 2422.4 | 2509.3 | 2596.2 | 2625.8 | 2655.4 | 2684.9 | 2714.5 | 2744.1 | 2773.7 | 2803.2 |
| 97.5° | 2162.8 | 2244.2 | 2325.5 | 2406.9 | 2436.5 | 2466.1 | 2495.6 | 2525.2 | 2554.8 | 2584.4 | 2613.9 |
| 100° | 2026.1 | 2104.5 | 2182.8 | 2261.2 | 2289.9 | 2318.5 | 2347.2 | 2375.9 | 2404.5 | 2433.2 | 2461.9 |
| 102.5° | 1910.4 | 1986.4 | 2062.5 | 2138.5 | 2166.7 | 2194.9 | 2223.1 | 2251.3 | 2279.5 | 2307.7 | 2335.9 |
| 105° | 1802.9 | 1876.6 | 1950.4 | 2024.1 | 2053.2 | 2082.3 | 2111.5 | 2140.6 | 2169.7 | 2198.8 | 2228.0 |
| 107.5° | 1712.1 | 1784.9 | 1857.7 | 1930.5 | 1959.2 | 1987.8 | 2016.5 | 2045.1 | 2073.8 | 2102.4 | 2131.1 |
| 110° | 1621.9 | 1693.6 | 1765.2 | 1836.9 | 1865.3 | 1893.7 | 1922.2 | 1950.6 | 1979.0 | 2007.4 | 2035.9 |



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CANDELA DISTRIBUTION (continued):

| | 330° | 332.5° | 335° | 337.5° | 340° | 342.5° | 345° | 347.5° | 350° | 352.5° | 355° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1534.6 | 1604.1 | 1673.7 | 1743.3 | 1771.5 | 1799.7 | 1827.9 | 1856.1 | 1884.2 | 1912.4 | 1940.6 |
| 115° | 1446.5 | 1512.8 | 1579.2 | 1645.5 | 1673.2 | 1701.0 | 1728.7 | 1756.4 | 1784.2 | 1811.9 | 1839.6 |
| 117.5° | 1361.2 | 1424.8 | 1488.3 | 1551.9 | 1578.0 | 1604.1 | 1630.2 | 1656.3 | 1682.5 | 1708.6 | 1734.7 |
| 120° | 1278.0 | 1340.1 | 1402.3 | 1464.5 | 1489.2 | 1514.0 | 1538.7 | 1563.4 | 1588.2 | 1612.9 | 1637.6 |
| 122.5° | 1190.6 | 1251.4 | 1312.2 | 1373.0 | 1397.0 | 1421.1 | 1445.1 | 1469.1 | 1493.2 | 1517.2 | 1541.2 |
| 125° | 1098.4 | 1155.9 | 1213.5 | 1271.0 | 1294.8 | 1318.6 | 1342.4 | 1366.2 | 1390.1 | 1413.9 | 1437.7 |
| 127.5° | 998.5 | 1051.2 | 1103.9 | 1156.6 | 1179.9 | 1203.3 | 1226.6 | 1250.0 | 1273.3 | 1296.7 | 1320.0 |
| 130° | 891.1 | 939.4 | 987.7 | 1036.0 | 1058.0 | 1079.9 | 1101.9 | 1123.8 | 1145.8 | 1167.7 | 1189.7 |
| 132.5° | 793.3 | 838.8 | 884.4 | 929.9 | 948.6 | 967.3 | 986.1 | 1004.8 | 1023.5 | 1042.2 | 1061.0 |
| 135° | 703.8 | 748.0 | 792.1 | 836.3 | 852.2 | 868.2 | 884.1 | 900.1 | 916.0 | 932.0 | 947.9 |
| 137.5° | 612.3 | 652.9 | 693.6 | 734.3 | 749.8 | 765.3 | 780.8 | 796.3 | 811.7 | 827.2 | 842.7 |
| 140° | 515.9 | 550.6 | 585.2 | 619.9 | 636.3 | 652.7 | 669.1 | 685.5 | 702.0 | 718.4 | 734.8 |
| 142.5° | 429.2 | 458.8 | 488.4 | 518.0 | 534.4 | 550.8 | 567.2 | 583.6 | 600.1 | 616.5 | 632.9 |
| 145° | 346.7 | 371.2 | 395.7 | 420.2 | 436.8 | 453.5 | 470.1 | 486.8 | 503.4 | 520.1 | 536.7 |
| 147.5° | 276.7 | 296.8 | 316.9 | 337.0 | 352.7 | 368.4 | 384.2 | 399.9 | 415.6 | 431.3 | 447.1 |
| 150° | 219.1 | 236.2 | 253.3 | 270.4 | 284.5 | 298.6 | 312.7 | 326.8 | 340.9 | 355.0 | 369.1 |
| 152.5° | 163.0 | 176.6 | 190.3 | 203.9 | 217.1 | 230.2 | 243.4 | 256.6 | 269.7 | 282.9 | 296.1 |
| 155° | 113.7 | 124.3 | 135.0 | 145.6 | 157.4 | 169.2 | 181.0 | 192.8 | 204.5 | 216.3 | 228.1 |
| 157.5° | 74.9 | 82.5 | 90.2 | 97.8 | 107.7 | 117.7 | 127.6 | 137.5 | 147.5 | 157.4 | 167.3 |
| 160° | 40.9 | 45.3 | 49.7 | 54.1 | 62.2 | 70.3 | 78.4 | 86.5 | 94.5 | 102.6 | 110.7 |
| 162.5° | 18.7 | 20.8 | 22.9 | 25.0 | 30.3 | 35.6 | 40.9 | 46.2 | 51.6 | 56.9 | 62.2 |
| 165° | 4.1 | 4.8 | 5.5 | 6.2 | 9.4 | 12.7 | 15.9 | 19.2 | 22.4 | 25.7 | 28.9 |
| 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 |



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CANDELA DISTRIBUTION (continued):

| | 357.5° | 360° |
|--------|--------|--------|
| 0° | 2080.3 | 2080.3 |
| 2.5° | 2124.0 | 2121.9 |
| 5° | 2184.3 | 2184.3 |
| 7.5° | 2233.7 | 2234.2 |
| 10° | 2279.3 | 2280.0 |
| 12.5° | 2329.7 | 2332.0 |
| 15° | 2381.9 | 2386.1 |
| 17.5° | 2446.8 | 2452.6 |
| 20° | 2514.4 | 2521.3 |
| 22.5° | 2581.1 | 2589.9 |
| 25° | 2641.0 | 2650.2 |
| 27.5° | 2709.9 | 2721.0 |
| 30° | 2784.7 | 2797.9 |
| 32.5° | 2873.5 | 2889.5 |
| 35° | 2972.2 | 2991.4 |
| 37.5° | 3089.2 | 3112.1 |
| 40° | 3224.1 | 3251.4 |
| 42.5° | 3379.9 | 3411.6 |
| 45° | 3562.1 | 3598.8 |
| 47.5° | 3767.1 | 3808.9 |
| 50° | 3994.5 | 4041.9 |
| 52.5° | 4240.9 | 4293.6 |
| 55° | 4490.8 | 4547.4 |
| 57.5° | 4739.0 | 4799.1 |
| 60° | 4972.3 | 5034.2 |
| 62.5° | 5172.2 | 5233.9 |
| 65° | 5325.5 | 5385.8 |
| 67.5° | 5424.6 | 5483.5 |
| 70° | 5447.8 | 5504.4 |
| 72.5° | 5385.8 | 5439.9 |
| 75° | 5238.6 | 5290.1 |
| 77.5° | 5012.3 | 5059.2 |
| 80° | 4717.3 | 4761.7 |
| 82.5° | 4376.9 | 4418.5 |
| 85° | 4017.9 | 4056.5 |
| 87.5° | 3660.1 | 3696.6 |
| 90° | 3333.2 | 3367.9 |
| 92.5° | 3060.5 | 3093.3 |
| 95° | 2832.8 | 2862.4 |
| 97.5° | 2643.5 | 2673.1 |
| 100° | 2490.5 | 2519.2 |
| 102.5° | 2364.1 | 2392.3 |
| 105° | 2257.1 | 2286.2 |
| 107.5° | 2159.7 | 2188.4 |
| 110° | 2064.3 | 2092.7 |



TEST NUMBER: P201401

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

CANDELA DISTRIBUTION (continued):

| | 357.5° | 360° |
|--------|--------|--------|
| 112.5° | 1968.8 | 1997.0 |
| 115° | 1867.4 | 1895.1 |
| 117.5° | 1760.8 | 1786.9 |
| 120° | 1662.4 | 1687.1 |
| 122.5° | 1565.3 | 1589.3 |
| 125° | 1461.5 | 1485.3 |
| 127.5° | 1343.4 | 1366.7 |
| 130° | 1211.6 | 1233.6 |
| 132.5° | 1079.7 | 1098.4 |
| 135° | 963.9 | 979.8 |
| 137.5° | 858.2 | 873.7 |
| 140° | 751.2 | 767.6 |
| 142.5° | 649.3 | 665.7 |
| 145° | 553.4 | 570.0 |
| 147.5° | 462.8 | 478.5 |
| 150° | 383.2 | 397.3 |
| 152.5° | 309.2 | 322.4 |
| 155° | 239.9 | 251.7 |
| 157.5° | 177.3 | 187.2 |
| 160° | 118.8 | 126.9 |
| 162.5° | 67.5 | 72.8 |
| 165° | 32.2 | 35.4 |
| 167.5° | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 |

(END OF REPORT)