

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: P201397

Luminaire Tested: **8LBLED-LD4-14-ASYMF-UNV-L840-CD2-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P201397  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28234)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8LBLELD4-14-ASYMF-UNV-L840-CD2-U  
Description: 8 ft. Low Bay Linear, 9000 lm, Frst Asym lens, 4K  
Light Source: (616) 4000K CCT, 80 CRI LEDS  
2UT217098A8404C, 2UT217056A8404B  
Ballast/Driver: OSRAM  
(OT85W01600CC), (OT50W0880CC)

**Summary**

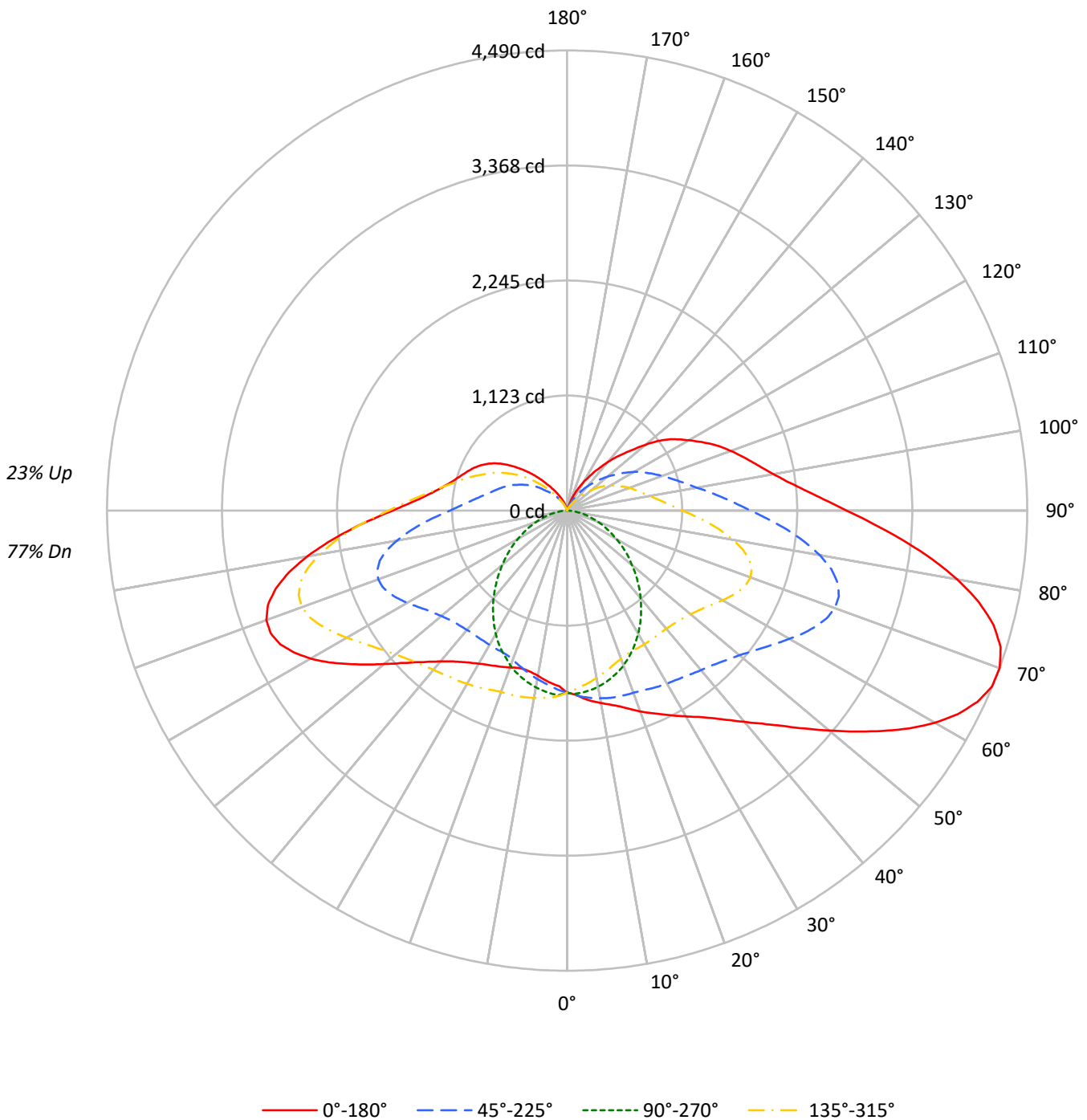
Lumens per Lamp: N/A  
Luminaire Lumens: 15420.8 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Spacing Criteria (0/90/45): 2.02 / 1.17 / 1.78  
Luminous Opening: Rectangular w/ Sides (W: 8' x L: 0.17' x H: 0.21')  
CIE Type: Semi-Direct  
  
Input Watts (W): 117.46  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P201397

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L840-CD2-U

### Luminous Intensity Polar Plot





TEST NUMBER: P201397

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 14310 | 14310 | 14310 | 14310 |
| 5°  | 13420 | 14371 | 12349 | 14466 |
| 10° | 12788 | 14214 | 10977 | 14272 |
| 15° | 12366 | 13967 | 10027 | 14026 |
| 20° | 12309 | 13658 | 9612  | 13697 |
| 25° | 12333 | 13229 | 9402  | 13250 |
| 30° | 12547 | 12720 | 9330  | 12763 |
| 35° | 12989 | 12124 | 9468  | 12147 |
| 40° | 13835 | 11481 | 9877  | 11505 |
| 45° | 15069 | 10783 | 10623 | 10783 |
| 50° | 16847 | 10019 | 11757 | 10048 |
| 55° | 18951 | 9365  | 13192 | 9365  |
| 60° | 21139 | 8471  | 14745 | 8545  |
| 65° | 22937 | 7783  | 16037 | 7826  |
| 70° | 23919 | 7029  | 16640 | 7029  |
| 75° | 23741 | 6115  | 16223 | 6115  |
| 80° | 22238 | 4978  | 14812 | 5075  |
| 85° | 19914 | 3542  | 12859 | 3713  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 168.5   | 1.1       |
| 10°-20°   | 491.7   | 3.2       |
| 20°-30°   | 793.3   | 5.1       |
| 30°-40°   | 1076.5  | 7.0       |
| 40°-50°   | 1384.5  | 9.0       |
| 50°-60°   | 1775.1  | 11.5      |
| 60°-70°   | 2170.8  | 14.1      |
| 70°-80°   | 2212.6  | 14.3      |
| 80°-90°   | 1726.4  | 11.2      |
| 90°-100°  | 1202.6  | 7.8       |
| 100°-110° | 896.9   | 5.8       |
| 110°-120° | 673.3   | 4.4       |
| 120°-130° | 456.7   | 3.0       |
| 130°-140° | 251.0   | 1.6       |
| 140°-150° | 106.7   | 0.7       |
| 150°-160° | 31.4    | 0.2       |
| 160°-170° | 3.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-30°    | 1453.5  | 9.4       |
| 0°-40°    | 2530.0  | 16.4      |
| 0°-60°    | 5689.6  | 36.9      |
| 0°-90°    | 11799.3 | 76.5      |
| 90°-120°  | 2772.8  | 18.0      |
| 90°-150°  | 3587.2  | 23.3      |
| 90°-180°  | 3622.0  | 23.5      |
| 0°-180°   | 15420.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1776 | 1776 | 1776 | 1776 | 1776 |      |
| 5°   | 1840 | 1781 | 1693 | 1793 | 1840 | 178  |
| 15°  | 1977 | 1686 | 1603 | 1693 | 1977 | 565  |
| 25°  | 2193 | 1506 | 1672 | 1508 | 2193 | 1020 |
| 35°  | 2472 | 1255 | 1802 | 1258 | 2472 | 1565 |
| 45°  | 2970 | 971  | 2094 | 971  | 2970 | 2321 |
| 55°  | 3749 | 692  | 2610 | 692  | 3749 | 3368 |
| 65°  | 4417 | 431  | 3088 | 433  | 4417 | 4350 |
| 75°  | 4308 | 216  | 2944 | 216  | 4308 | 4503 |
| 85°  | 3282 | 50   | 2120 | 52   | 3282 | 2802 |
| 90°  | 2726 | 0    | 1700 | 0    | 2726 | 1500 |
| 95°  | 2318 | 0    | 1423 | 0    | 2318 | 1840 |
| 105° | 1857 | 0    | 1142 | 0    | 1857 | 1971 |
| 115° | 1542 | 0    | 995  | 2    | 1542 | 1530 |
| 125° | 1212 | 0    | 798  | 2    | 1212 | 1081 |
| 135° | 791  | 0    | 523  | 2    | 791  | 622  |
| 145° | 455  | 0    | 279  | 2    | 455  | 292  |
| 155° | 201  | 0    | 128  | 2    | 201  | 97   |
| 165° | 24   | 0    | 21   | 2    | 24   | 11   |
| 175° | 0    | 0    | 0    | 0    | 0    | 0    |
| 180° | 0    | 0    | 0    | 0    | 0    | 0    |



TEST NUMBER: P201397

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5°  | 25°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 |
| 2.5°   | 1797.5 | 1797.2 | 1797.0 | 1796.7 | 1796.4 | 1796.2 | 1795.9 | 1795.6 | 1795.4 | 1795.1 | 1795.9 |
| 5°     | 1840.1 | 1838.5 | 1836.9 | 1835.4 | 1833.8 | 1832.2 | 1830.6 | 1829.1 | 1827.5 | 1825.9 | 1825.9 |
| 7.5°   | 1875.6 | 1873.2 | 1870.9 | 1868.5 | 1866.1 | 1863.8 | 1861.4 | 1859.0 | 1856.7 | 1854.3 | 1853.2 |
| 10°    | 1906.4 | 1903.2 | 1900.1 | 1896.9 | 1893.8 | 1890.6 | 1887.5 | 1884.3 | 1881.2 | 1878.0 | 1875.9 |
| 12.5°  | 1939.6 | 1935.9 | 1932.2 | 1928.5 | 1924.8 | 1921.2 | 1917.5 | 1913.8 | 1910.1 | 1906.4 | 1902.7 |
| 15°    | 1977.4 | 1973.2 | 1969.0 | 1964.8 | 1960.6 | 1956.4 | 1952.2 | 1948.0 | 1943.8 | 1939.6 | 1933.0 |
| 17.5°  | 2029.5 | 2023.7 | 2017.9 | 2012.1 | 2006.3 | 2000.6 | 1994.8 | 1989.0 | 1983.2 | 1977.4 | 1967.4 |
| 20°    | 2086.4 | 2078.8 | 2071.1 | 2063.5 | 2055.9 | 2048.2 | 2040.6 | 2033.0 | 2025.3 | 2017.7 | 2003.8 |
| 22.5°  | 2138.5 | 2129.3 | 2120.1 | 2110.9 | 2101.7 | 2092.4 | 2083.2 | 2074.0 | 2064.8 | 2055.6 | 2038.2 |
| 25°    | 2193.0 | 2183.0 | 2173.0 | 2163.0 | 2153.0 | 2143.0 | 2133.0 | 2123.0 | 2113.0 | 2103.0 | 2082.5 |
| 27.5°  | 2254.5 | 2242.9 | 2231.3 | 2219.8 | 2208.2 | 2196.6 | 2185.0 | 2173.5 | 2161.9 | 2150.3 | 2126.4 |
| 30°    | 2318.5 | 2305.6 | 2292.7 | 2279.8 | 2266.9 | 2254.0 | 2241.1 | 2228.2 | 2215.3 | 2202.4 | 2174.2 |
| 32.5°  | 2387.1 | 2372.1 | 2357.1 | 2342.1 | 2327.1 | 2312.2 | 2297.2 | 2282.2 | 2267.2 | 2252.2 | 2220.1 |
| 35°    | 2472.4 | 2454.8 | 2437.1 | 2419.5 | 2401.9 | 2384.2 | 2366.6 | 2349.0 | 2331.3 | 2313.7 | 2276.9 |
| 37.5°  | 2574.2 | 2553.7 | 2533.2 | 2512.6 | 2492.1 | 2471.6 | 2451.1 | 2430.5 | 2410.0 | 2389.5 | 2346.9 |
| 40°    | 2690.3 | 2666.6 | 2642.9 | 2619.2 | 2595.5 | 2571.9 | 2548.2 | 2524.5 | 2500.8 | 2477.1 | 2427.6 |
| 42.5°  | 2820.5 | 2793.4 | 2766.3 | 2739.2 | 2712.1 | 2685.0 | 2657.9 | 2630.8 | 2603.7 | 2576.6 | 2519.2 |
| 45°    | 2969.7 | 2939.2 | 2908.7 | 2878.1 | 2847.6 | 2817.1 | 2786.6 | 2756.0 | 2725.5 | 2695.0 | 2628.7 |
| 47.5°  | 3147.3 | 3112.3 | 3077.3 | 3042.3 | 3007.3 | 2972.4 | 2937.4 | 2902.4 | 2867.4 | 2832.4 | 2755.8 |
| 50°    | 3339.2 | 3299.7 | 3260.2 | 3220.8 | 3181.3 | 3141.8 | 3102.3 | 3062.9 | 3023.4 | 2983.9 | 2896.3 |
| 52.5°  | 3540.5 | 3497.6 | 3454.7 | 3411.8 | 3368.9 | 3326.0 | 3283.1 | 3240.2 | 3197.3 | 3154.4 | 3054.9 |
| 55°    | 3748.9 | 3702.8 | 3656.8 | 3610.7 | 3564.7 | 3518.6 | 3472.6 | 3426.5 | 3380.5 | 3334.4 | 3223.1 |
| 57.5°  | 3954.9 | 3906.5 | 3858.1 | 3809.6 | 3761.2 | 3712.8 | 3664.4 | 3615.9 | 3567.5 | 3519.1 | 3396.5 |
| 60°    | 4142.0 | 4093.1 | 4044.1 | 3995.2 | 3946.2 | 3897.3 | 3848.3 | 3799.4 | 3750.4 | 3701.5 | 3568.4 |
| 62.5°  | 4300.6 | 4252.2 | 4203.8 | 4155.4 | 4107.0 | 4058.5 | 4010.1 | 3961.7 | 3913.3 | 3864.9 | 3723.9 |
| 65°    | 4416.7 | 4370.1 | 4323.5 | 4277.0 | 4230.4 | 4183.8 | 4137.2 | 4090.7 | 4044.1 | 3997.5 | 3850.7 |
| 67.5°  | 4487.7 | 4442.7 | 4397.7 | 4352.7 | 4307.7 | 4262.8 | 4217.8 | 4172.8 | 4127.8 | 4082.8 | 3933.9 |
| 70°    | 4490.1 | 4448.5 | 4406.9 | 4365.4 | 4323.8 | 4282.2 | 4240.6 | 4199.1 | 4157.5 | 4115.9 | 3967.5 |
| 72.5°  | 4435.6 | 4395.9 | 4356.1 | 4316.4 | 4276.7 | 4236.9 | 4197.2 | 4157.5 | 4117.7 | 4078.0 | 3933.8 |
| 75°    | 4307.8 | 4270.2 | 4232.5 | 4194.9 | 4157.3 | 4119.6 | 4082.0 | 4044.4 | 4006.7 | 3969.1 | 3831.7 |
| 77.5°  | 4113.6 | 4077.8 | 4042.0 | 4006.2 | 3970.4 | 3934.7 | 3898.9 | 3863.1 | 3827.3 | 3791.5 | 3663.6 |
| 80°    | 3864.9 | 3831.2 | 3797.5 | 3763.9 | 3730.2 | 3696.5 | 3662.8 | 3629.2 | 3595.5 | 3561.8 | 3444.2 |
| 82.5°  | 3583.1 | 3551.3 | 3519.4 | 3487.6 | 3455.7 | 3423.9 | 3392.0 | 3360.2 | 3328.3 | 3296.5 | 3189.9 |
| 85°    | 3282.3 | 3252.6 | 3222.8 | 3193.1 | 3163.4 | 3133.6 | 3103.9 | 3074.2 | 3044.4 | 3014.7 | 2919.4 |
| 87.5°  | 2991.0 | 2962.3 | 2933.6 | 2905.0 | 2876.3 | 2847.6 | 2818.9 | 2790.3 | 2761.6 | 2732.9 | 2647.6 |
| 90°    | 2725.8 | 2699.0 | 2672.1 | 2645.3 | 2618.4 | 2591.6 | 2564.7 | 2537.9 | 2511.0 | 2484.2 | 2406.8 |
| 92.5°  | 2503.2 | 2478.2 | 2453.2 | 2428.2 | 2403.2 | 2378.2 | 2353.2 | 2328.2 | 2303.2 | 2278.2 | 2207.4 |
| 95°    | 2318.5 | 2294.8 | 2271.1 | 2247.4 | 2223.7 | 2200.1 | 2176.4 | 2152.7 | 2129.0 | 2105.3 | 2039.3 |
| 97.5°  | 2164.5 | 2141.6 | 2118.7 | 2095.8 | 2072.9 | 2050.1 | 2027.2 | 2004.3 | 1981.4 | 1958.5 | 1895.9 |
| 100°   | 2043.8 | 2021.4 | 1999.1 | 1976.7 | 1954.3 | 1932.0 | 1909.6 | 1887.2 | 1864.9 | 1842.5 | 1780.4 |
| 102.5° | 1941.9 | 1919.5 | 1897.2 | 1874.8 | 1852.4 | 1830.1 | 1807.7 | 1785.3 | 1763.0 | 1740.6 | 1680.1 |
| 105°   | 1856.7 | 1834.3 | 1812.0 | 1789.6 | 1767.2 | 1744.9 | 1722.5 | 1700.1 | 1677.8 | 1655.4 | 1595.9 |
| 107.5° | 1778.5 | 1756.4 | 1734.3 | 1712.2 | 1690.1 | 1668.0 | 1645.9 | 1623.8 | 1601.7 | 1579.6 | 1520.9 |
| 110°   | 1700.4 | 1678.6 | 1656.7 | 1634.9 | 1613.0 | 1591.2 | 1569.3 | 1547.5 | 1525.6 | 1503.8 | 1446.4 |



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CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5°  | 25°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1624.6 | 1602.5 | 1580.4 | 1558.3 | 1536.2 | 1514.1 | 1492.0 | 1469.9 | 1447.8 | 1425.7 | 1370.2 |
| 115°   | 1541.7 | 1519.9 | 1498.0 | 1476.2 | 1454.3 | 1432.5 | 1410.6 | 1388.8 | 1366.9 | 1345.1 | 1292.0 |
| 117.5° | 1454.1 | 1433.6 | 1413.1 | 1392.5 | 1372.0 | 1351.5 | 1331.0 | 1310.4 | 1289.9 | 1269.4 | 1219.1 |
| 120°   | 1371.2 | 1351.7 | 1332.2 | 1312.8 | 1293.3 | 1273.8 | 1254.3 | 1234.9 | 1215.4 | 1195.9 | 1147.0 |
| 122.5° | 1293.0 | 1274.1 | 1255.1 | 1236.2 | 1217.2 | 1198.3 | 1179.3 | 1160.4 | 1141.4 | 1122.5 | 1074.6 |
| 125°   | 1212.5 | 1193.8 | 1175.1 | 1156.5 | 1137.8 | 1119.1 | 1100.4 | 1081.8 | 1063.1 | 1044.4 | 998.1  |
| 127.5° | 1115.4 | 1097.5 | 1079.6 | 1061.7 | 1043.8 | 1026.0 | 1008.1 | 990.2  | 972.3  | 954.4  | 911.5  |
| 130°   | 999.4  | 983.6  | 967.8  | 952.0  | 936.2  | 920.5  | 904.7  | 888.9  | 873.1  | 857.3  | 819.4  |
| 132.5° | 888.1  | 874.7  | 861.3  | 847.8  | 834.4  | 821.0  | 807.6  | 794.1  | 780.7  | 767.3  | 733.4  |
| 135°   | 791.0  | 779.7  | 768.4  | 757.0  | 745.7  | 734.4  | 723.1  | 711.7  | 700.4  | 689.1  | 658.1  |
| 137.5° | 705.7  | 695.2  | 684.7  | 674.1  | 663.6  | 653.1  | 642.6  | 632.0  | 621.5  | 611.0  | 582.8  |
| 140°   | 620.5  | 610.2  | 600.0  | 589.7  | 579.4  | 569.2  | 558.9  | 548.6  | 538.4  | 528.1  | 503.6  |
| 142.5° | 530.5  | 522.3  | 514.2  | 506.0  | 497.9  | 489.7  | 481.6  | 473.4  | 465.3  | 457.1  | 435.5  |
| 145°   | 454.7  | 447.6  | 440.5  | 433.4  | 426.3  | 419.2  | 412.1  | 405.0  | 397.9  | 390.8  | 371.8  |
| 147.5° | 383.6  | 377.3  | 371.0  | 364.7  | 358.4  | 352.0  | 345.7  | 339.4  | 333.1  | 326.8  | 310.5  |
| 150°   | 317.3  | 312.0  | 306.8  | 301.5  | 296.3  | 291.0  | 285.8  | 280.5  | 275.3  | 270.0  | 255.8  |
| 152.5° | 258.1  | 253.4  | 248.6  | 243.9  | 239.2  | 234.4  | 229.7  | 225.0  | 220.2  | 215.5  | 203.4  |
| 155°   | 201.3  | 197.4  | 193.4  | 189.5  | 185.5  | 181.6  | 177.6  | 173.7  | 169.7  | 165.8  | 155.3  |
| 157.5° | 146.8  | 143.6  | 140.5  | 137.3  | 134.2  | 131.0  | 127.9  | 124.7  | 121.6  | 118.4  | 110.0  |
| 160°   | 99.5   | 96.6   | 93.7   | 90.8   | 87.9   | 85.0   | 82.1   | 79.2   | 76.3   | 73.4   | 67.9   |
| 162.5° | 54.5   | 52.9   | 51.3   | 49.8   | 48.2   | 46.6   | 45.0   | 43.5   | 41.9   | 40.3   | 36.9   |
| 165°   | 23.7   | 22.9   | 22.1   | 21.3   | 20.5   | 19.8   | 19.0   | 18.2   | 17.4   | 16.6   | 15.0   |
| 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: P201397

CATALOG NUMBER: 8LBLELD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 27.5°  | 30°    | 32.5°  | 35°    | 37.5°  | 40°    | 42.5°  | 45°    | 47.5°  | 50°    | 52.5°  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 |
| 2.5°   | 1796.7 | 1797.5 | 1798.3 | 1799.0 | 1799.8 | 1800.6 | 1801.4 | 1802.2 | 1799.3 | 1796.4 | 1793.5 |
| 5°     | 1825.9 | 1825.9 | 1825.9 | 1825.9 | 1825.9 | 1825.9 | 1825.9 | 1825.9 | 1821.2 | 1816.4 | 1811.7 |
| 7.5°   | 1852.2 | 1851.1 | 1850.1 | 1849.0 | 1848.0 | 1846.9 | 1845.9 | 1844.8 | 1838.2 | 1831.6 | 1825.1 |
| 10°    | 1873.8 | 1871.7 | 1869.6 | 1867.4 | 1865.3 | 1863.2 | 1861.1 | 1859.0 | 1850.3 | 1841.6 | 1833.0 |
| 12.5°  | 1899.0 | 1895.3 | 1891.6 | 1888.0 | 1884.3 | 1880.6 | 1876.9 | 1873.2 | 1861.9 | 1850.6 | 1839.3 |
| 15°    | 1926.4 | 1919.8 | 1913.2 | 1906.7 | 1900.1 | 1893.5 | 1886.9 | 1880.3 | 1866.9 | 1853.5 | 1840.1 |
| 17.5°  | 1957.4 | 1947.4 | 1937.4 | 1927.5 | 1917.5 | 1907.5 | 1897.5 | 1887.5 | 1871.4 | 1855.4 | 1839.3 |
| 20°    | 1989.8 | 1975.9 | 1961.9 | 1948.0 | 1934.0 | 1920.1 | 1906.1 | 1892.2 | 1873.0 | 1853.8 | 1834.6 |
| 22.5°  | 2020.9 | 2003.5 | 1986.1 | 1968.8 | 1951.4 | 1934.0 | 1916.7 | 1899.3 | 1876.4 | 1853.5 | 1830.6 |
| 25°    | 2061.9 | 2041.4 | 2020.9 | 2000.3 | 1979.8 | 1959.3 | 1938.7 | 1918.2 | 1889.8 | 1861.4 | 1833.0 |
| 27.5°  | 2102.4 | 2078.5 | 2054.5 | 2030.6 | 2006.6 | 1982.7 | 1958.7 | 1934.8 | 1900.9 | 1866.9 | 1833.0 |
| 30°    | 2146.1 | 2117.9 | 2089.8 | 2061.6 | 2033.5 | 2005.3 | 1977.2 | 1949.0 | 1909.3 | 1869.5 | 1829.8 |
| 32.5°  | 2188.0 | 2155.9 | 2123.8 | 2091.6 | 2059.5 | 2027.4 | 1995.3 | 1963.2 | 1917.9 | 1872.7 | 1827.4 |
| 35°    | 2240.0 | 2203.2 | 2166.4 | 2129.5 | 2092.7 | 2055.9 | 2019.0 | 1982.2 | 1930.9 | 1879.6 | 1828.3 |
| 37.5°  | 2304.3 | 2261.6 | 2219.0 | 2176.4 | 2133.8 | 2091.1 | 2048.5 | 2005.9 | 1948.5 | 1891.2 | 1833.8 |
| 40°    | 2378.2 | 2328.7 | 2279.2 | 2229.8 | 2180.3 | 2130.8 | 2081.4 | 2031.9 | 1968.5 | 1905.1 | 1841.7 |
| 42.5°  | 2461.9 | 2404.5 | 2347.1 | 2289.8 | 2232.4 | 2175.0 | 2117.7 | 2060.3 | 1990.6 | 1920.9 | 1851.1 |
| 45°    | 2562.4 | 2496.1 | 2429.8 | 2363.4 | 2297.1 | 2230.8 | 2164.5 | 2098.2 | 2021.1 | 1944.0 | 1866.9 |
| 47.5°  | 2679.2 | 2602.7 | 2526.1 | 2449.5 | 2372.9 | 2296.4 | 2219.8 | 2143.2 | 2057.9 | 1972.7 | 1887.4 |
| 50°    | 2808.7 | 2721.0 | 2633.4 | 2545.8 | 2458.2 | 2370.5 | 2282.9 | 2195.3 | 2101.4 | 2007.4 | 1913.5 |
| 52.5°  | 2955.5 | 2856.0 | 2756.6 | 2657.1 | 2557.7 | 2458.2 | 2358.8 | 2259.3 | 2155.4 | 2051.4 | 1947.5 |
| 55°    | 3111.8 | 3000.5 | 2889.2 | 2777.9 | 2666.6 | 2555.3 | 2444.0 | 2332.7 | 2218.2 | 2103.8 | 1989.3 |
| 57.5°  | 3273.9 | 3151.3 | 3028.7 | 2906.0 | 2783.4 | 2660.8 | 2538.2 | 2415.6 | 2289.6 | 2163.5 | 2037.5 |
| 60°    | 3435.2 | 3302.1 | 3168.9 | 3035.8 | 2902.6 | 2769.5 | 2636.3 | 2503.2 | 2365.6 | 2228.0 | 2090.3 |
| 62.5°  | 3582.8 | 3441.8 | 3300.7 | 3159.7 | 3018.6 | 2877.6 | 2736.5 | 2595.5 | 2445.8 | 2296.1 | 2146.3 |
| 65°    | 3703.9 | 3557.0 | 3410.2 | 3263.4 | 3116.6 | 2969.7 | 2822.9 | 2676.1 | 2515.3 | 2354.5 | 2193.8 |
| 67.5°  | 3784.9 | 3636.0 | 3487.1 | 3338.1 | 3189.2 | 3040.3 | 2891.3 | 2742.4 | 2571.6 | 2400.8 | 2230.1 |
| 70°    | 3819.1 | 3670.7 | 3522.3 | 3373.9 | 3225.5 | 3077.1 | 2928.7 | 2780.3 | 2602.4 | 2424.5 | 2246.7 |
| 72.5°  | 3789.6 | 3645.4 | 3501.2 | 3357.1 | 3212.9 | 3068.7 | 2924.5 | 2780.3 | 2598.5 | 2416.6 | 2234.8 |
| 75°    | 3694.4 | 3557.0 | 3419.7 | 3282.3 | 3145.0 | 3007.6 | 2870.3 | 2732.9 | 2551.9 | 2370.8 | 2189.8 |
| 77.5°  | 3535.7 | 3407.8 | 3279.9 | 3152.1 | 3024.2 | 2896.3 | 2768.4 | 2640.5 | 2464.5 | 2288.4 | 2112.4 |
| 80°    | 3326.6 | 3208.9 | 3091.3 | 2973.7 | 2856.1 | 2738.4 | 2620.8 | 2503.2 | 2336.1 | 2169.0 | 2001.9 |
| 82.5°  | 3083.4 | 2976.8 | 2870.2 | 2763.7 | 2657.1 | 2550.5 | 2444.0 | 2337.4 | 2181.6 | 2025.8 | 1870.1 |
| 85°    | 2824.2 | 2728.9 | 2633.7 | 2538.4 | 2443.2 | 2347.9 | 2252.7 | 2157.4 | 2014.3 | 1871.1 | 1728.0 |
| 87.5°  | 2562.4 | 2477.1 | 2391.9 | 2306.6 | 2221.4 | 2136.1 | 2050.9 | 1965.6 | 1836.1 | 1706.7 | 1577.2 |
| 90°    | 2329.5 | 2252.1 | 2174.8 | 2097.4 | 2020.1 | 1942.7 | 1865.4 | 1788.0 | 1670.4 | 1552.8 | 1435.1 |
| 92.5°  | 2136.6 | 2065.9 | 1995.1 | 1924.3 | 1853.5 | 1782.8 | 1712.0 | 1641.2 | 1534.1 | 1427.0 | 1319.9 |
| 95°    | 1973.2 | 1907.2 | 1841.1 | 1775.1 | 1709.0 | 1643.0 | 1576.9 | 1510.9 | 1412.5 | 1314.1 | 1215.7 |
| 97.5°  | 1833.3 | 1770.6 | 1708.0 | 1645.4 | 1582.8 | 1520.1 | 1457.5 | 1394.9 | 1303.3 | 1211.7 | 1120.2 |
| 100°   | 1718.3 | 1656.2 | 1594.1 | 1532.0 | 1469.9 | 1407.8 | 1345.7 | 1283.6 | 1199.1 | 1114.7 | 1030.2 |
| 102.5° | 1619.6 | 1559.0 | 1498.5 | 1438.0 | 1377.5 | 1316.9 | 1256.4 | 1195.9 | 1115.9 | 1035.9 | 955.9  |
| 105°   | 1536.5 | 1477.0 | 1417.5 | 1358.1 | 1298.6 | 1239.1 | 1179.7 | 1120.2 | 1043.9 | 967.6  | 891.3  |
| 107.5° | 1462.2 | 1403.6 | 1344.9 | 1286.2 | 1227.5 | 1168.9 | 1110.2 | 1051.5 | 978.3  | 905.2  | 832.0  |
| 110°   | 1389.1 | 1331.7 | 1274.3 | 1217.0 | 1159.6 | 1102.2 | 1044.9 | 987.5  | 917.2  | 847.0  | 776.7  |





TEST NUMBER: P201397

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 27.5°  | 30°    | 32.5°  | 35°    | 37.5°  | 40°    | 42.5° | 45°   | 47.5° | 50°   | 52.5° |
|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 112.5° | 1314.7 | 1259.1 | 1203.6 | 1148.1 | 1092.6 | 1037.0 | 981.5 | 926.0 | 859.2 | 792.3 | 725.5 |
| 115°   | 1238.8 | 1185.7 | 1132.5 | 1079.4 | 1026.2 | 973.1  | 919.9 | 866.8 | 802.9 | 738.9 | 675.0 |
| 117.5° | 1168.9 | 1118.6 | 1068.3 | 1018.1 | 967.8  | 917.5  | 867.3 | 817.0 | 755.7 | 694.4 | 633.1 |
| 120°   | 1098.0 | 1049.1 | 1000.2 | 951.2  | 902.3  | 853.4  | 804.4 | 755.5 | 698.1 | 640.8 | 583.4 |
| 122.5° | 1026.7 | 978.8  | 930.9  | 883.1  | 835.2  | 787.3  | 739.4 | 691.5 | 638.6 | 585.7 | 532.8 |
| 125°   | 951.8  | 905.5  | 859.2  | 812.8  | 766.5  | 720.2  | 673.9 | 627.6 | 578.9 | 530.2 | 481.6 |
| 127.5° | 868.6  | 825.7  | 782.8  | 740.0  | 697.1  | 654.2  | 611.3 | 568.4 | 523.7 | 478.9 | 434.2 |
| 130°   | 781.5  | 743.6  | 705.7  | 667.9  | 630.0  | 592.1  | 554.2 | 516.3 | 475.0 | 433.7 | 392.4 |
| 132.5° | 699.4  | 665.5  | 631.5  | 597.6  | 563.6  | 529.7  | 495.7 | 461.8 | 423.9 | 386.0 | 348.1 |
| 135°   | 627.0  | 596.0  | 564.9  | 533.9  | 502.8  | 471.8  | 440.7 | 409.7 | 375.5 | 341.3 | 307.1 |
| 137.5° | 554.7  | 526.5  | 498.4  | 470.2  | 442.1  | 413.9  | 385.8 | 357.6 | 326.8 | 296.0 | 265.2 |
| 140°   | 479.2  | 454.7  | 430.2  | 405.8  | 381.3  | 356.8  | 332.4 | 307.9 | 280.3 | 252.6 | 225.0 |
| 142.5° | 413.9  | 392.4  | 370.8  | 349.2  | 327.6  | 306.1  | 284.5 | 262.9 | 238.4 | 213.9 | 189.5 |
| 145°   | 352.9  | 333.9  | 315.0  | 296.0  | 277.1  | 258.1  | 239.2 | 220.2 | 198.9 | 177.6 | 156.3 |
| 147.5° | 294.2  | 277.9  | 261.6  | 245.2  | 228.9  | 212.6  | 196.3 | 180.0 | 161.8 | 143.7 | 125.5 |
| 150°   | 241.6  | 227.4  | 213.2  | 198.9  | 184.7  | 170.5  | 156.3 | 142.1 | 127.4 | 112.6 | 97.9  |
| 152.5° | 191.3  | 179.2  | 167.1  | 155.0  | 142.9  | 130.8  | 118.7 | 106.6 | 95.3  | 84.0  | 72.6  |
| 155°   | 144.7  | 134.2  | 123.7  | 113.1  | 102.6  | 92.1   | 81.5  | 71.0  | 63.4  | 55.8  | 48.1  |
| 157.5° | 101.6  | 93.1   | 84.7   | 76.3   | 67.9   | 59.4   | 51.0  | 42.6  | 37.9  | 33.1  | 28.4  |
| 160°   | 62.4   | 56.8   | 51.3   | 45.8   | 40.3   | 34.7   | 29.2  | 23.7  | 21.1  | 18.4  | 15.8  |
| 162.5° | 33.5   | 30.0   | 26.6   | 23.2   | 19.8   | 16.3   | 12.9  | 9.5   | 8.4   | 7.4   | 6.3   |
| 165°   | 13.4   | 11.9   | 10.3   | 8.7    | 7.1    | 5.6    | 4.0   | 2.4   | 2.1   | 1.9   | 1.6   |
| 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: P201397

CATALOG NUMBER: 8LBLELD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 57.5°  | 60°    | 62.5°  | 65°    | 67.5°  | 70°    | 72.5°  | 75°    | 77.5°  | 80°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 |
| 2.5°   | 1790.6 | 1787.7 | 1784.8 | 1781.9 | 1779.0 | 1776.1 | 1777.7 | 1779.3 | 1780.9 | 1782.5 | 1784.0 |
| 5°     | 1807.0 | 1802.2 | 1797.5 | 1792.8 | 1788.0 | 1783.3 | 1783.0 | 1782.8 | 1782.5 | 1782.2 | 1782.0 |
| 7.5°   | 1818.5 | 1811.9 | 1805.3 | 1798.8 | 1792.2 | 1785.6 | 1783.5 | 1781.4 | 1779.3 | 1777.2 | 1775.1 |
| 10°    | 1824.3 | 1815.6 | 1806.9 | 1798.3 | 1789.6 | 1780.9 | 1777.0 | 1773.0 | 1769.1 | 1765.1 | 1761.2 |
| 12.5°  | 1828.0 | 1816.6 | 1805.3 | 1794.0 | 1782.7 | 1771.4 | 1765.6 | 1759.8 | 1754.0 | 1748.2 | 1742.5 |
| 15°    | 1826.7 | 1813.2 | 1799.8 | 1786.4 | 1773.0 | 1759.6 | 1751.4 | 1743.3 | 1735.1 | 1727.0 | 1718.8 |
| 17.5°  | 1823.3 | 1807.2 | 1791.2 | 1775.1 | 1759.1 | 1743.0 | 1732.7 | 1722.5 | 1712.2 | 1701.9 | 1691.7 |
| 20°    | 1815.4 | 1796.1 | 1776.9 | 1757.7 | 1738.5 | 1719.3 | 1706.9 | 1694.6 | 1682.2 | 1669.8 | 1657.5 |
| 22.5°  | 1807.7 | 1784.9 | 1762.0 | 1739.1 | 1716.2 | 1693.3 | 1678.3 | 1663.3 | 1648.3 | 1633.3 | 1618.3 |
| 25°    | 1804.6 | 1776.1 | 1747.7 | 1719.3 | 1690.9 | 1662.5 | 1645.1 | 1627.8 | 1610.4 | 1593.0 | 1575.7 |
| 27.5°  | 1799.0 | 1765.1 | 1731.1 | 1697.2 | 1663.2 | 1629.3 | 1609.0 | 1588.8 | 1568.5 | 1548.3 | 1528.0 |
| 30°    | 1790.1 | 1750.3 | 1710.6 | 1670.9 | 1631.1 | 1591.4 | 1568.8 | 1546.2 | 1523.5 | 1500.9 | 1478.3 |
| 32.5°  | 1782.2 | 1736.9 | 1691.7 | 1646.4 | 1601.2 | 1555.9 | 1529.9 | 1503.8 | 1477.8 | 1451.7 | 1425.7 |
| 35°    | 1777.0 | 1725.6 | 1674.3 | 1623.0 | 1571.7 | 1520.4 | 1490.9 | 1461.4 | 1432.0 | 1402.5 | 1373.0 |
| 37.5°  | 1776.4 | 1719.1 | 1661.7 | 1604.3 | 1547.0 | 1489.6 | 1455.7 | 1421.7 | 1387.8 | 1353.8 | 1319.9 |
| 40°    | 1778.3 | 1714.8 | 1651.4 | 1588.0 | 1524.6 | 1461.2 | 1422.8 | 1384.4 | 1345.9 | 1307.5 | 1269.1 |
| 42.5°  | 1781.4 | 1711.7 | 1642.0 | 1572.2 | 1502.5 | 1432.8 | 1389.6 | 1346.5 | 1303.3 | 1260.2 | 1217.0 |
| 45°    | 1789.8 | 1712.7 | 1635.6 | 1558.5 | 1481.4 | 1404.3 | 1356.2 | 1308.0 | 1259.9 | 1211.7 | 1163.6 |
| 47.5°  | 1802.2 | 1716.9 | 1631.7 | 1546.4 | 1461.2 | 1375.9 | 1323.0 | 1270.1 | 1217.2 | 1164.3 | 1111.5 |
| 50°    | 1819.6 | 1725.6 | 1631.7 | 1537.8 | 1443.8 | 1349.9 | 1291.5 | 1233.1 | 1174.6 | 1116.2 | 1057.8 |
| 52.5°  | 1843.5 | 1739.6 | 1635.6 | 1531.7 | 1427.7 | 1323.8 | 1261.4 | 1199.1 | 1136.7 | 1074.4 | 1012.0 |
| 55°    | 1874.8 | 1760.4 | 1645.9 | 1531.4 | 1417.0 | 1302.5 | 1234.6 | 1166.7 | 1098.8 | 1030.9 | 963.1  |
| 57.5°  | 1911.4 | 1785.4 | 1659.3 | 1533.3 | 1407.2 | 1281.2 | 1208.3 | 1135.4 | 1062.5 | 989.6  | 916.8  |
| 60°    | 1952.7 | 1815.1 | 1677.5 | 1539.8 | 1402.2 | 1264.6 | 1185.1 | 1105.7 | 1026.2 | 946.7  | 867.3  |
| 62.5°  | 1996.6 | 1846.9 | 1697.2 | 1547.4 | 1397.7 | 1248.0 | 1164.1 | 1080.1 | 996.2  | 912.3  | 828.3  |
| 65°    | 2033.0 | 1872.2 | 1711.4 | 1550.7 | 1389.9 | 1229.1 | 1140.4 | 1051.7 | 963.1  | 874.4  | 785.7  |
| 67.5°  | 2059.3 | 1888.5 | 1717.7 | 1547.0 | 1376.2 | 1205.4 | 1113.0 | 1020.7 | 928.3  | 836.0  | 743.6  |
| 70°    | 2068.8 | 1890.9 | 1713.0 | 1535.2 | 1357.3 | 1179.4 | 1083.9 | 988.4  | 892.8  | 797.3  | 701.8  |
| 72.5°  | 2053.0 | 1871.1 | 1689.3 | 1507.5 | 1325.6 | 1143.8 | 1046.2 | 948.6  | 850.9  | 753.3  | 655.7  |
| 75°    | 2008.8 | 1827.7 | 1646.7 | 1465.7 | 1284.6 | 1103.6 | 1004.9 | 906.2  | 807.6  | 708.9  | 610.2  |
| 77.5°  | 1936.4 | 1760.3 | 1584.3 | 1408.3 | 1232.2 | 1056.2 | 957.5  | 858.8  | 760.2  | 661.5  | 562.8  |
| 80°    | 1834.8 | 1667.8 | 1500.7 | 1333.6 | 1166.5 | 999.4  | 902.0  | 804.7  | 707.3  | 609.9  | 512.6  |
| 82.5°  | 1714.3 | 1558.5 | 1402.7 | 1247.0 | 1091.2 | 935.4  | 840.7  | 746.0  | 651.2  | 556.5  | 461.8  |
| 85°    | 1584.8 | 1441.7 | 1298.5 | 1155.4 | 1012.2 | 869.1  | 778.1  | 687.0  | 596.0  | 504.9  | 413.9  |
| 87.5°  | 1447.8 | 1318.3 | 1188.9 | 1059.4 | 930.0  | 800.5  | 713.7  | 626.8  | 540.0  | 453.1  | 366.3  |
| 90°    | 1317.5 | 1199.9 | 1082.3 | 964.6  | 847.0  | 729.4  | 648.4  | 567.3  | 486.3  | 405.2  | 324.2  |
| 92.5°  | 1212.8 | 1105.7 | 998.6  | 891.5  | 784.4  | 677.3  | 602.0  | 526.8  | 451.5  | 376.3  | 301.0  |
| 95°    | 1117.3 | 1018.8 | 920.4  | 822.0  | 723.6  | 625.2  | 555.7  | 486.3  | 416.8  | 347.3  | 277.9  |
| 97.5°  | 1028.6 | 937.0  | 845.4  | 753.9  | 662.3  | 570.7  | 507.3  | 443.9  | 380.5  | 317.1  | 253.6  |
| 100°   | 945.7  | 861.3  | 776.8  | 692.3  | 607.9  | 523.4  | 465.2  | 407.1  | 348.9  | 290.8  | 232.6  |
| 102.5° | 875.9  | 796.0  | 716.0  | 636.0  | 556.0  | 476.0  | 423.1  | 370.2  | 317.3  | 264.4  | 211.6  |
| 105°   | 815.0  | 738.6  | 662.3  | 586.0  | 509.7  | 433.4  | 385.2  | 337.1  | 288.9  | 240.8  | 192.6  |
| 107.5° | 758.9  | 685.7  | 612.6  | 539.4  | 466.3  | 393.1  | 349.4  | 305.7  | 262.1  | 218.4  | 174.7  |
| 110°   | 706.5  | 636.2  | 566.0  | 495.7  | 425.5  | 355.2  | 315.7  | 276.3  | 236.8  | 197.3  | 157.9  |



TEST NUMBER: P201397

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 57.5° | 60°   | 62.5° | 65°   | 67.5° | 70°   | 72.5° | 75°   | 77.5° | 80°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 658.6 | 591.8 | 524.9 | 458.1 | 391.2 | 324.4 | 288.4 | 252.3 | 216.3 | 180.2 | 144.2 |
| 115°   | 611.0 | 547.1 | 483.1 | 419.2 | 355.2 | 291.3 | 258.9 | 226.6 | 194.2 | 161.8 | 129.5 |
| 117.5° | 571.8 | 510.4 | 449.1 | 387.8 | 326.5 | 265.2 | 235.7 | 206.3 | 176.8 | 147.3 | 117.9 |
| 120°   | 526.0 | 468.7 | 411.3 | 353.9 | 296.6 | 239.2 | 212.6 | 186.0 | 159.5 | 132.9 | 106.3 |
| 122.5° | 479.9 | 427.1 | 374.2 | 321.3 | 268.4 | 215.5 | 191.6 | 167.6 | 143.7 | 119.7 | 95.8  |
| 125°   | 432.9 | 384.2 | 335.5 | 286.9 | 238.2 | 189.5 | 168.4 | 147.4 | 126.3 | 105.3 | 84.2  |
| 127.5° | 389.5 | 344.7 | 300.0 | 255.3 | 210.5 | 165.8 | 147.4 | 129.0 | 110.5 | 92.1  | 73.7  |
| 130°   | 351.1 | 309.7 | 268.4 | 227.1 | 185.8 | 144.5 | 128.4 | 112.4 | 96.3  | 80.3  | 64.2  |
| 132.5° | 310.2 | 272.4 | 234.5 | 196.6 | 158.7 | 120.8 | 107.4 | 94.0  | 80.5  | 67.1  | 53.7  |
| 135°   | 272.9 | 238.6 | 204.4 | 170.2 | 136.0 | 101.8 | 90.5  | 79.2  | 67.9  | 56.6  | 45.2  |
| 137.5° | 234.4 | 203.7 | 172.9 | 142.1 | 111.3 | 80.5  | 71.6  | 62.6  | 53.7  | 44.7  | 35.8  |
| 140°   | 197.4 | 169.7 | 142.1 | 114.5 | 86.8  | 59.2  | 52.6  | 46.0  | 39.5  | 32.9  | 26.3  |
| 142.5° | 165.0 | 140.5 | 116.0 | 91.6  | 67.1  | 42.6  | 37.9  | 33.1  | 28.4  | 23.7  | 18.9  |
| 145°   | 135.0 | 113.6 | 92.3  | 71.0  | 49.7  | 28.4  | 25.2  | 22.1  | 18.9  | 15.8  | 12.6  |
| 147.5° | 107.4 | 89.2  | 71.1  | 52.9  | 34.8  | 16.6  | 14.8  | 12.9  | 11.1  | 9.2   | 7.4   |
| 150°   | 83.2  | 68.4  | 53.7  | 39.0  | 24.2  | 9.5   | 8.4   | 7.4   | 6.3   | 5.3   | 4.2   |
| 152.5° | 61.3  | 50.0  | 38.7  | 27.3  | 16.0  | 4.7   | 4.2   | 3.7   | 3.1   | 2.6   | 2.1   |
| 155°   | 40.5  | 32.9  | 25.3  | 17.6  | 10.0  | 2.4   | 2.1   | 1.9   | 1.6   | 1.3   | 1.1   |
| 157.5° | 23.7  | 18.9  | 14.2  | 9.5   | 4.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 160°   | 13.2  | 10.5  | 7.9   | 5.3   | 2.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 162.5° | 5.3   | 4.2   | 3.2   | 2.1   | 1.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 165°   | 1.3   | 1.1   | 0.8   | 0.5   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 167.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 170°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 172.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 175°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 177.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 180°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



TEST NUMBER: P201397

CATALOG NUMBER: 8LBLEDD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 82.5°  | 85°    | 87.5°  | 90°    | 92.5°  | 95°    | 97.5°  | 100°   | 102.5° | 105°   | 107.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 |
| 2.5°   | 1785.6 | 1787.2 | 1788.8 | 1790.4 | 1786.4 | 1782.5 | 1778.5 | 1774.6 | 1770.6 | 1766.7 | 1762.7 |
| 5°     | 1781.7 | 1781.4 | 1781.2 | 1780.9 | 1775.9 | 1770.9 | 1765.9 | 1760.9 | 1755.9 | 1750.9 | 1745.9 |
| 7.5°   | 1773.0 | 1770.9 | 1768.8 | 1766.7 | 1760.4 | 1754.1 | 1747.7 | 1741.4 | 1735.1 | 1728.8 | 1722.4 |
| 10°    | 1757.2 | 1753.3 | 1749.3 | 1745.4 | 1738.3 | 1731.2 | 1724.1 | 1717.0 | 1709.8 | 1702.7 | 1695.6 |
| 12.5°  | 1736.7 | 1730.9 | 1725.1 | 1719.3 | 1711.1 | 1703.0 | 1694.8 | 1686.7 | 1678.5 | 1670.4 | 1662.2 |
| 15°    | 1710.7 | 1702.5 | 1694.4 | 1686.2 | 1677.8 | 1669.4 | 1660.9 | 1652.5 | 1644.1 | 1635.7 | 1627.2 |
| 17.5°  | 1681.4 | 1671.1 | 1660.9 | 1650.6 | 1641.9 | 1633.2 | 1624.6 | 1615.9 | 1607.2 | 1598.5 | 1589.9 |
| 20°    | 1645.1 | 1632.7 | 1620.4 | 1608.0 | 1599.1 | 1590.1 | 1581.2 | 1572.2 | 1563.3 | 1554.3 | 1545.4 |
| 22.5°  | 1603.3 | 1588.3 | 1573.3 | 1558.3 | 1549.9 | 1541.5 | 1533.0 | 1524.6 | 1516.2 | 1507.8 | 1499.3 |
| 25°    | 1558.3 | 1540.9 | 1523.6 | 1506.2 | 1498.3 | 1490.4 | 1482.5 | 1474.6 | 1466.7 | 1458.8 | 1450.9 |
| 27.5°  | 1507.8 | 1487.5 | 1467.3 | 1447.0 | 1440.2 | 1433.3 | 1426.5 | 1419.6 | 1412.8 | 1405.9 | 1399.1 |
| 30°    | 1455.7 | 1433.0 | 1410.4 | 1387.8 | 1381.5 | 1375.2 | 1368.8 | 1362.5 | 1356.2 | 1349.9 | 1343.5 |
| 32.5°  | 1399.6 | 1373.6 | 1347.5 | 1321.5 | 1317.0 | 1312.5 | 1308.1 | 1303.6 | 1299.1 | 1294.6 | 1290.2 |
| 35°    | 1343.5 | 1314.1 | 1284.6 | 1255.1 | 1252.7 | 1250.4 | 1248.0 | 1245.6 | 1243.3 | 1240.9 | 1238.5 |
| 37.5°  | 1285.9 | 1252.0 | 1218.0 | 1184.1 | 1184.6 | 1185.1 | 1185.7 | 1186.2 | 1186.7 | 1187.2 | 1187.8 |
| 40°    | 1230.7 | 1192.2 | 1153.8 | 1115.4 | 1119.3 | 1123.3 | 1127.2 | 1131.2 | 1135.1 | 1139.1 | 1143.0 |
| 42.5°  | 1173.9 | 1130.7 | 1087.6 | 1044.4 | 1052.6 | 1060.7 | 1068.9 | 1077.0 | 1085.2 | 1093.3 | 1101.5 |
| 45°    | 1115.4 | 1067.3 | 1019.1 | 971.0  | 983.6  | 996.2  | 1008.9 | 1021.5 | 1034.1 | 1046.7 | 1059.4 |
| 47.5°  | 1058.6 | 1005.7 | 952.8  | 899.9  | 916.7  | 933.6  | 950.4  | 967.3  | 984.1  | 1001.0 | 1017.8 |
| 50°    | 999.4  | 940.9  | 882.5  | 824.1  | 845.9  | 867.8  | 889.6  | 911.5  | 933.3  | 955.2  | 977.0  |
| 52.5°  | 949.7  | 887.3  | 825.0  | 762.6  | 788.4  | 814.2  | 839.9  | 865.7  | 891.5  | 917.3  | 943.0  |
| 55°    | 895.2  | 827.3  | 759.4  | 691.5  | 722.0  | 752.5  | 783.1  | 813.6  | 844.1  | 874.6  | 905.2  |
| 57.5°  | 843.9  | 771.0  | 698.1  | 625.2  | 660.7  | 696.2  | 731.8  | 767.3  | 802.8  | 838.3  | 873.9  |
| 60°    | 787.8  | 708.3  | 628.9  | 549.4  | 590.5  | 631.5  | 672.6  | 713.6  | 754.7  | 795.7  | 836.8  |
| 62.5°  | 744.4  | 660.5  | 576.5  | 492.6  | 537.3  | 582.1  | 626.8  | 671.5  | 716.3  | 761.0  | 805.7  |
| 65°    | 697.0  | 608.4  | 519.7  | 431.0  | 479.7  | 528.4  | 577.0  | 625.7  | 674.4  | 723.1  | 771.7  |
| 67.5°  | 651.3  | 558.9  | 466.6  | 374.2  | 426.3  | 478.4  | 530.5  | 582.6  | 634.7  | 686.8  | 738.9  |
| 70°    | 606.3  | 510.7  | 415.2  | 319.7  | 374.4  | 429.2  | 483.9  | 538.6  | 593.4  | 648.1  | 702.8  |
| 72.5°  | 558.1  | 460.4  | 362.8  | 265.2  | 321.8  | 378.4  | 434.9  | 491.5  | 548.1  | 604.7  | 661.2  |
| 75°    | 511.5  | 412.9  | 314.2  | 215.5  | 273.1  | 330.7  | 388.4  | 446.0  | 503.6  | 561.2  | 618.9  |
| 77.5°  | 464.1  | 365.5  | 266.8  | 168.1  | 226.3  | 284.4  | 342.6  | 400.7  | 458.9  | 517.0  | 575.2  |
| 80°    | 415.2  | 317.8  | 220.5  | 123.1  | 181.0  | 238.9  | 296.8  | 354.7  | 412.6  | 470.5  | 528.4  |
| 82.5°  | 367.1  | 272.3  | 177.6  | 82.9   | 139.7  | 196.6  | 253.4  | 310.2  | 367.1  | 423.9  | 480.7  |
| 85°    | 322.8  | 231.8  | 140.7  | 49.7   | 103.9  | 158.1  | 212.3  | 266.5  | 320.8  | 375.0  | 429.2  |
| 87.5°  | 279.4  | 192.6  | 105.7  | 18.9   | 71.3   | 123.6  | 176.0  | 228.4  | 280.7  | 333.1  | 385.5  |
| 90°    | 243.1  | 162.1  | 81.0   | 0.0    | 49.2   | 98.4   | 147.6  | 196.8  | 246.1  | 295.3  | 344.5  |
| 92.5°  | 225.8  | 150.5  | 75.3   | 0.0    | 45.8   | 91.6   | 137.4  | 183.2  | 228.9  | 274.7  | 320.5  |
| 95°    | 208.4  | 138.9  | 69.5   | 0.0    | 42.6   | 85.2   | 127.9  | 170.5  | 213.1  | 255.7  | 298.4  |
| 97.5°  | 190.2  | 126.8  | 63.4   | 0.0    | 39.2   | 78.4   | 117.6  | 156.8  | 196.1  | 235.3  | 274.5  |
| 100°   | 174.5  | 116.3  | 58.2   | 0.0    | 36.3   | 72.6   | 108.9  | 145.2  | 181.6  | 217.9  | 254.2  |
| 102.5° | 158.7  | 105.8  | 52.9   | 0.0    | 33.4   | 66.8   | 100.3  | 133.7  | 167.1  | 200.5  | 234.0  |
| 105°   | 144.5  | 96.3   | 48.2   | 0.0    | 30.5   | 61.0   | 91.6   | 122.1  | 152.6  | 183.1  | 213.7  |
| 107.5° | 131.0  | 87.4   | 43.7   | 0.0    | 27.9   | 55.8   | 83.7   | 111.6  | 139.4  | 167.3  | 195.2  |
| 110°   | 118.4  | 78.9   | 39.5   | 0.0    | 25.5   | 51.0   | 76.6   | 102.1  | 127.6  | 153.1  | 178.7  |



TEST NUMBER: P201397

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 82.5° | 85°  | 87.5° | 90° | 92.5° | 95°  | 97.5° | 100° | 102.5° | 105°  | 107.5° |
|--------|-------|------|-------|-----|-------|------|-------|------|--------|-------|--------|
| 112.5° | 108.1 | 72.1 | 36.0  | 0.0 | 23.2  | 46.3 | 69.5  | 92.6 | 115.8  | 138.9 | 162.1  |
| 115°   | 97.1  | 64.7 | 32.4  | 0.0 | 20.5  | 41.0 | 61.6  | 82.1 | 102.6  | 123.1 | 143.7  |
| 117.5° | 88.4  | 58.9 | 29.5  | 0.0 | 18.4  | 36.8 | 55.3  | 73.7 | 92.1   | 110.5 | 129.0  |
| 120°   | 79.7  | 53.2 | 26.6  | 0.0 | 16.6  | 33.2 | 49.7  | 66.3 | 82.9   | 99.5  | 116.0  |
| 122.5° | 71.8  | 47.9 | 23.9  | 0.0 | 14.7  | 29.5 | 44.2  | 58.9 | 73.7   | 88.4  | 103.1  |
| 125°   | 63.2  | 42.1 | 21.1  | 0.0 | 13.2  | 26.3 | 39.5  | 52.6 | 65.8   | 78.9  | 92.1   |
| 127.5° | 55.3  | 36.8 | 18.4  | 0.0 | 11.3  | 22.6 | 33.9  | 45.2 | 56.6   | 67.9  | 79.2   |
| 130°   | 48.2  | 32.1 | 16.1  | 0.0 | 9.5   | 19.0 | 28.4  | 37.9 | 47.4   | 56.9  | 66.3   |
| 132.5° | 40.3  | 26.8 | 13.4  | 0.0 | 7.9   | 15.8 | 23.7  | 31.6 | 39.4   | 47.3  | 55.2   |
| 135°   | 33.9  | 22.6 | 11.3  | 0.0 | 6.3   | 12.6 | 18.9  | 25.2 | 31.6   | 37.9  | 44.2   |
| 137.5° | 26.8  | 17.9 | 8.9   | 0.0 | 4.7   | 9.5  | 14.2  | 18.9 | 23.7   | 28.4  | 33.1   |
| 140°   | 19.7  | 13.2 | 6.6   | 0.0 | 3.4   | 6.8  | 10.3  | 13.7 | 17.1   | 20.5  | 24.0   |
| 142.5° | 14.2  | 9.5  | 4.7   | 0.0 | 2.1   | 4.2  | 6.3   | 8.4  | 10.5   | 12.6  | 14.7   |
| 145°   | 9.5   | 6.3  | 3.2   | 0.0 | 1.3   | 2.6  | 3.9   | 5.2  | 6.6    | 7.9   | 9.2    |
| 147.5° | 5.5   | 3.7  | 1.8   | 0.0 | 1.1   | 2.1  | 3.2   | 4.2  | 5.3    | 6.3   | 7.4    |
| 150°   | 3.2   | 2.1  | 1.1   | 0.0 | 0.8   | 1.6  | 2.4   | 3.2  | 3.9    | 4.7   | 5.5    |
| 152.5° | 1.6   | 1.0  | 0.5   | 0.0 | 0.5   | 1.0  | 1.6   | 2.1  | 2.6    | 3.1   | 3.7    |
| 155°   | 0.8   | 0.5  | 0.3   | 0.0 | 0.3   | 0.5  | 0.8   | 1.1  | 1.3    | 1.6   | 1.9    |
| 157.5° | 0.0   | 0.0  | 0.0   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  | 0.0    | 0.0   | 0.0    |
| 160°   | 0.0   | 0.0  | 0.0   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  | 0.0    | 0.0   | 0.0    |
| 162.5° | 0.0   | 0.0  | 0.0   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  | 0.0    | 0.0   | 0.0    |
| 165°   | 0.0   | 0.0  | 0.0   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  | 0.0    | 0.0   | 0.0    |
| 167.5° | 0.0   | 0.0  | 0.0   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  | 0.0    | 0.0   | 0.0    |
| 170°   | 0.0   | 0.0  | 0.0   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  | 0.0    | 0.0   | 0.0    |
| 172.5° | 0.0   | 0.0  | 0.0   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  | 0.0    | 0.0   | 0.0    |
| 175°   | 0.0   | 0.0  | 0.0   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  | 0.0    | 0.0   | 0.0    |
| 177.5° | 0.0   | 0.0  | 0.0   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  | 0.0    | 0.0   | 0.0    |
| 180°   | 0.0   | 0.0  | 0.0   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  | 0.0    | 0.0   | 0.0    |



TEST NUMBER: P201397

CATALOG NUMBER: 8LBLELD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 112.5° | 115°   | 117.5° | 120°   | 122.5° | 125°   | 127.5° | 130°   | 132.5° | 135°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 |
| 2.5°   | 1758.8 | 1754.8 | 1753.8 | 1752.7 | 1751.7 | 1750.6 | 1749.6 | 1748.5 | 1747.5 | 1746.4 | 1745.4 |
| 5°     | 1740.9 | 1735.9 | 1733.8 | 1731.7 | 1729.6 | 1727.5 | 1725.3 | 1723.2 | 1721.1 | 1719.0 | 1716.9 |
| 7.5°   | 1716.1 | 1709.8 | 1707.4 | 1705.1 | 1702.7 | 1700.3 | 1698.0 | 1695.6 | 1693.2 | 1690.9 | 1688.5 |
| 10°    | 1688.5 | 1681.4 | 1678.8 | 1676.1 | 1673.5 | 1670.9 | 1668.2 | 1665.6 | 1663.0 | 1660.3 | 1657.7 |
| 12.5°  | 1654.1 | 1645.9 | 1643.5 | 1641.2 | 1638.8 | 1636.4 | 1634.1 | 1631.7 | 1629.3 | 1627.0 | 1624.6 |
| 15°    | 1618.8 | 1610.4 | 1608.6 | 1606.7 | 1604.9 | 1603.0 | 1601.2 | 1599.3 | 1597.5 | 1595.6 | 1593.8 |
| 17.5°  | 1581.2 | 1572.5 | 1571.4 | 1570.4 | 1569.3 | 1568.3 | 1567.2 | 1566.2 | 1565.1 | 1564.1 | 1563.0 |
| 20°    | 1536.4 | 1527.5 | 1528.6 | 1529.6 | 1530.7 | 1531.7 | 1532.8 | 1533.8 | 1534.9 | 1535.9 | 1537.0 |
| 22.5°  | 1490.9 | 1482.5 | 1486.4 | 1490.4 | 1494.3 | 1498.3 | 1502.2 | 1506.2 | 1510.1 | 1514.1 | 1518.0 |
| 25°    | 1443.0 | 1435.1 | 1443.3 | 1451.4 | 1459.6 | 1467.7 | 1475.9 | 1484.0 | 1492.2 | 1500.3 | 1508.5 |
| 27.5°  | 1392.2 | 1385.4 | 1399.1 | 1412.8 | 1426.4 | 1440.1 | 1453.8 | 1467.5 | 1481.1 | 1494.8 | 1508.5 |
| 30°    | 1337.2 | 1330.9 | 1350.4 | 1369.9 | 1389.3 | 1408.8 | 1428.3 | 1447.8 | 1467.2 | 1486.7 | 1506.2 |
| 32.5°  | 1285.7 | 1281.2 | 1305.9 | 1330.7 | 1355.4 | 1380.1 | 1404.9 | 1429.6 | 1454.3 | 1479.1 | 1503.8 |
| 35°    | 1236.2 | 1233.8 | 1263.5 | 1293.3 | 1323.0 | 1352.7 | 1382.5 | 1412.2 | 1441.9 | 1471.7 | 1501.4 |
| 37.5°  | 1188.3 | 1188.8 | 1223.5 | 1258.3 | 1293.0 | 1327.7 | 1362.5 | 1397.2 | 1431.9 | 1466.7 | 1501.4 |
| 40°    | 1147.0 | 1150.9 | 1190.4 | 1229.9 | 1269.3 | 1308.8 | 1348.3 | 1387.8 | 1427.2 | 1466.7 | 1506.2 |
| 42.5°  | 1109.6 | 1117.8 | 1161.7 | 1205.7 | 1249.6 | 1293.6 | 1337.5 | 1381.5 | 1425.4 | 1469.4 | 1513.3 |
| 45°    | 1072.0 | 1084.6 | 1133.8 | 1183.0 | 1232.2 | 1281.4 | 1330.7 | 1379.9 | 1429.1 | 1478.3 | 1527.5 |
| 47.5°  | 1034.7 | 1051.5 | 1106.5 | 1161.5 | 1216.5 | 1271.5 | 1326.4 | 1381.4 | 1436.4 | 1491.4 | 1546.4 |
| 50°    | 998.9  | 1020.7 | 1082.0 | 1143.3 | 1204.6 | 1265.9 | 1327.3 | 1388.6 | 1449.9 | 1511.2 | 1572.5 |
| 52.5°  | 968.8  | 994.6  | 1062.5 | 1130.4 | 1198.3 | 1266.2 | 1334.0 | 1401.9 | 1469.8 | 1537.7 | 1605.6 |
| 55°    | 935.7  | 966.2  | 1041.7 | 1117.2 | 1192.8 | 1268.3 | 1343.8 | 1419.3 | 1494.9 | 1570.4 | 1645.9 |
| 57.5°  | 909.4  | 944.9  | 1028.3 | 1111.7 | 1195.1 | 1278.5 | 1362.0 | 1445.4 | 1528.8 | 1612.2 | 1695.6 |
| 60°    | 877.8  | 918.9  | 1011.3 | 1103.6 | 1196.0 | 1288.3 | 1380.7 | 1473.0 | 1565.4 | 1657.7 | 1750.1 |
| 62.5°  | 850.5  | 895.2  | 996.2  | 1097.3 | 1198.3 | 1299.4 | 1400.4 | 1501.5 | 1602.5 | 1703.6 | 1804.6 |
| 65°    | 820.4  | 869.1  | 978.6  | 1088.0 | 1197.5 | 1307.0 | 1416.4 | 1525.9 | 1635.4 | 1744.8 | 1854.3 |
| 67.5°  | 791.0  | 843.1  | 959.4  | 1075.7 | 1192.0 | 1308.3 | 1424.6 | 1540.9 | 1657.2 | 1773.5 | 1889.8 |
| 70°    | 757.6  | 812.3  | 933.6  | 1054.9 | 1176.2 | 1297.5 | 1418.8 | 1540.1 | 1661.4 | 1782.7 | 1904.0 |
| 72.5°  | 717.8  | 774.4  | 898.1  | 1021.8 | 1145.4 | 1269.1 | 1392.8 | 1516.5 | 1640.1 | 1763.8 | 1887.5 |
| 75°    | 676.5  | 734.1  | 856.7  | 979.3  | 1102.0 | 1224.6 | 1347.2 | 1469.8 | 1592.5 | 1715.1 | 1837.7 |
| 77.5°  | 633.3  | 691.5  | 809.6  | 927.8  | 1045.9 | 1164.1 | 1282.2 | 1400.4 | 1518.5 | 1636.7 | 1754.8 |
| 80°    | 586.3  | 644.2  | 755.2  | 866.3  | 977.3  | 1088.3 | 1199.4 | 1310.4 | 1421.4 | 1532.5 | 1643.5 |
| 82.5°  | 537.6  | 594.4  | 697.0  | 799.6  | 902.3  | 1004.9 | 1107.5 | 1210.1 | 1312.8 | 1415.4 | 1518.0 |
| 85°    | 483.4  | 537.6  | 631.8  | 726.0  | 820.2  | 914.4  | 1008.6 | 1102.8 | 1197.0 | 1291.2 | 1385.4 |
| 87.5°  | 437.8  | 490.2  | 574.4  | 658.6  | 742.8  | 827.0  | 911.2  | 995.4  | 1079.6 | 1163.8 | 1248.0 |
| 90°    | 393.7  | 442.9  | 518.4  | 593.9  | 669.4  | 744.9  | 820.5  | 896.0  | 971.5  | 1047.0 | 1122.5 |
| 92.5°  | 366.3  | 412.1  | 480.2  | 548.4  | 616.5  | 684.7  | 752.8  | 821.0  | 889.1  | 957.3  | 1025.4 |
| 95°    | 341.0  | 383.6  | 446.2  | 508.9  | 571.5  | 634.1  | 696.8  | 759.4  | 822.0  | 884.7  | 947.3  |
| 97.5°  | 313.7  | 352.9  | 411.3  | 469.7  | 528.1  | 586.5  | 645.0  | 703.4  | 761.8  | 820.2  | 878.6  |
| 100°   | 290.5  | 326.8  | 381.5  | 436.3  | 491.0  | 545.7  | 600.5  | 655.2  | 709.9  | 764.7  | 819.4  |
| 102.5° | 267.4  | 300.8  | 352.9  | 405.0  | 457.1  | 509.2  | 561.3  | 613.4  | 665.5  | 717.6  | 769.7  |
| 105°   | 244.2  | 274.7  | 324.7  | 374.7  | 424.7  | 474.7  | 524.7  | 574.7  | 624.7  | 674.7  | 724.7  |
| 107.5° | 223.1  | 251.0  | 299.2  | 347.3  | 395.5  | 443.6  | 491.8  | 539.9  | 588.1  | 636.2  | 684.4  |
| 110°   | 204.2  | 229.7  | 276.0  | 322.3  | 368.6  | 414.9  | 461.3  | 507.6  | 553.9  | 600.2  | 646.5  |



TEST NUMBER: P201397

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 112.5° | 115°  | 117.5° | 120°  | 122.5° | 125°  | 127.5° | 130°  | 132.5° | 135°  |
|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 112.5° | 185.2 | 208.4  | 252.9 | 297.3  | 341.8 | 386.3  | 430.7 | 475.2  | 519.7 | 564.1  | 608.6 |
| 115°   | 164.2 | 184.7  | 226.8 | 268.9  | 311.0 | 353.1  | 395.2 | 437.3  | 479.4 | 521.5  | 563.6 |
| 117.5° | 147.4 | 165.8  | 205.8 | 245.8  | 285.8 | 325.8  | 365.7 | 405.7  | 445.7 | 485.7  | 525.7 |
| 120°   | 132.6 | 149.2  | 186.6 | 223.9  | 261.3 | 298.7  | 336.0 | 373.4  | 410.8 | 448.1  | 485.5 |
| 122.5° | 117.9 | 132.6  | 167.3 | 202.1  | 236.8 | 271.5  | 306.3 | 341.0  | 375.7 | 410.5  | 445.2 |
| 125°   | 105.2 | 118.4  | 150.2 | 182.1  | 213.9 | 245.8  | 277.6 | 309.5  | 341.3 | 373.2  | 405.0 |
| 127.5° | 90.5  | 101.8  | 130.5 | 159.2  | 187.9 | 216.6  | 245.2 | 273.9  | 302.6 | 331.3  | 360.0 |
| 130°   | 75.8  | 85.3   | 110.3 | 135.3  | 160.3 | 185.3  | 210.2 | 235.2  | 260.2 | 285.2  | 310.2 |
| 132.5° | 63.1  | 71.0   | 92.1  | 113.1  | 134.2 | 155.2  | 176.3 | 197.3  | 218.4 | 239.4  | 260.5 |
| 135°   | 50.5  | 56.8   | 75.2  | 93.6   | 112.1 | 130.5  | 148.9 | 167.3  | 185.8 | 204.2  | 222.6 |
| 137.5° | 37.9  | 42.6   | 58.7  | 74.7   | 90.8  | 106.8  | 122.9 | 138.9  | 155.0 | 171.0  | 187.1 |
| 140°   | 27.4  | 30.8   | 44.7  | 58.7   | 72.6  | 86.6   | 100.5 | 114.5  | 128.4 | 142.4  | 156.3 |
| 142.5° | 16.8  | 18.9   | 31.0  | 43.1   | 55.2  | 67.3   | 79.5  | 91.6   | 103.7 | 115.8  | 127.9 |
| 145°   | 10.5  | 11.8   | 21.8  | 31.8   | 41.8  | 51.8   | 61.8  | 71.8   | 81.8  | 91.8   | 101.8 |
| 147.5° | 8.4   | 9.5    | 17.4  | 25.3   | 33.2  | 41.1   | 48.9  | 56.8   | 64.7  | 72.6   | 80.5  |
| 150°   | 6.3   | 7.1    | 13.2  | 19.2   | 25.3  | 31.3   | 37.4  | 43.4   | 49.5  | 55.5   | 61.6  |
| 152.5° | 4.2   | 4.7    | 9.2   | 13.7   | 18.1  | 22.6   | 27.1  | 31.6   | 36.0  | 40.5   | 45.0  |
| 155°   | 2.1   | 2.4    | 5.3   | 8.2    | 11.1  | 14.0   | 16.8  | 19.7   | 22.6  | 25.5   | 28.4  |
| 157.5° | 0.0   | 0.0    | 1.6   | 3.2    | 4.7   | 6.3    | 7.9   | 9.5    | 11.0  | 12.6   | 14.2  |
| 160°   | 0.0   | 0.0    | 0.5   | 1.0    | 1.6   | 2.1    | 2.6   | 3.1    | 3.7   | 4.2    | 4.7   |
| 162.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 165°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 167.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 170°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 172.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 175°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 177.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 180°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |



TEST NUMBER: P201397

CATALOG NUMBER: 8LBLELD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 137.5° | 140°   | 142.5° | 145°   | 147.5° | 150°   | 152.5° | 155°   | 157.5° | 160°   | 162.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 |
| 2.5°   | 1744.1 | 1742.8 | 1741.4 | 1740.1 | 1738.8 | 1737.5 | 1736.1 | 1734.8 | 1733.5 | 1731.7 | 1729.8 |
| 5°     | 1715.1 | 1713.2 | 1711.4 | 1709.6 | 1707.7 | 1705.9 | 1704.1 | 1702.2 | 1700.4 | 1699.6 | 1698.8 |
| 7.5°   | 1686.4 | 1684.3 | 1682.2 | 1680.1 | 1678.0 | 1675.9 | 1673.8 | 1671.7 | 1669.6 | 1669.3 | 1669.1 |
| 10°    | 1656.1 | 1654.5 | 1653.0 | 1651.4 | 1649.8 | 1648.2 | 1646.7 | 1645.1 | 1643.5 | 1642.7 | 1641.9 |
| 12.5°  | 1623.8 | 1623.0 | 1622.2 | 1621.4 | 1620.7 | 1619.9 | 1619.1 | 1618.3 | 1617.5 | 1617.2 | 1617.0 |
| 15°    | 1594.1 | 1594.3 | 1594.6 | 1594.9 | 1595.1 | 1595.4 | 1595.7 | 1595.9 | 1596.2 | 1597.0 | 1597.8 |
| 17.5°  | 1565.9 | 1568.8 | 1571.7 | 1574.6 | 1577.5 | 1580.4 | 1583.3 | 1586.2 | 1589.1 | 1591.2 | 1593.3 |
| 20°    | 1543.6 | 1550.2 | 1556.7 | 1563.3 | 1569.9 | 1576.5 | 1583.0 | 1589.6 | 1596.2 | 1599.9 | 1603.6 |
| 22.5°  | 1528.5 | 1539.0 | 1549.6 | 1560.1 | 1570.6 | 1581.1 | 1591.7 | 1602.2 | 1612.7 | 1616.9 | 1621.1 |
| 25°    | 1521.9 | 1535.3 | 1548.8 | 1562.2 | 1575.6 | 1589.0 | 1602.5 | 1615.9 | 1629.3 | 1634.0 | 1638.8 |
| 27.5°  | 1523.8 | 1539.0 | 1554.3 | 1569.6 | 1584.8 | 1600.1 | 1615.4 | 1630.6 | 1645.9 | 1651.4 | 1656.9 |
| 30°    | 1523.6 | 1540.9 | 1558.3 | 1575.7 | 1593.0 | 1610.4 | 1627.8 | 1645.1 | 1662.5 | 1669.3 | 1676.2 |
| 32.5°  | 1523.8 | 1543.8 | 1563.8 | 1583.8 | 1603.8 | 1623.8 | 1643.8 | 1663.8 | 1683.8 | 1692.2 | 1700.6 |
| 35°    | 1524.6 | 1547.7 | 1570.9 | 1594.0 | 1617.2 | 1640.3 | 1663.5 | 1686.6 | 1709.8 | 1720.1 | 1730.3 |
| 37.5°  | 1528.5 | 1555.6 | 1582.7 | 1609.8 | 1637.0 | 1664.1 | 1691.2 | 1718.3 | 1745.4 | 1757.5 | 1769.6 |
| 40°    | 1537.5 | 1568.8 | 1600.1 | 1631.4 | 1662.8 | 1694.1 | 1725.4 | 1756.7 | 1788.0 | 1802.7 | 1817.5 |
| 42.5°  | 1549.9 | 1586.5 | 1623.0 | 1659.6 | 1696.2 | 1732.8 | 1769.3 | 1805.9 | 1842.5 | 1860.1 | 1877.7 |
| 45°    | 1569.9 | 1612.2 | 1654.6 | 1697.0 | 1739.3 | 1781.7 | 1824.1 | 1866.4 | 1908.8 | 1929.3 | 1949.8 |
| 47.5°  | 1595.6 | 1644.8 | 1694.0 | 1743.2 | 1792.5 | 1841.7 | 1890.9 | 1940.1 | 1989.3 | 2013.0 | 2036.7 |
| 50°    | 1629.6 | 1686.7 | 1743.8 | 1800.9 | 1858.0 | 1915.1 | 1972.2 | 2029.3 | 2086.4 | 2113.5 | 2140.6 |
| 52.5°  | 1670.9 | 1736.1 | 1801.4 | 1866.7 | 1931.9 | 1997.2 | 2062.5 | 2127.7 | 2193.0 | 2223.3 | 2253.5 |
| 55°    | 1720.1 | 1794.3 | 1868.5 | 1942.7 | 2016.9 | 2091.1 | 2165.3 | 2239.5 | 2313.7 | 2346.6 | 2379.5 |
| 57.5°  | 1778.0 | 1860.3 | 1942.7 | 2025.1 | 2107.4 | 2189.8 | 2272.2 | 2354.5 | 2436.9 | 2472.4 | 2507.9 |
| 60°    | 1840.1 | 1930.1 | 2020.1 | 2110.1 | 2200.0 | 2290.0 | 2380.0 | 2470.0 | 2560.0 | 2596.6 | 2633.2 |
| 62.5°  | 1901.2 | 1997.7 | 2094.3 | 2190.9 | 2287.4 | 2384.0 | 2480.6 | 2577.1 | 2673.7 | 2710.0 | 2746.3 |
| 65°    | 1955.6 | 2056.9 | 2158.2 | 2259.5 | 2360.9 | 2462.2 | 2563.5 | 2664.8 | 2766.1 | 2801.9 | 2837.7 |
| 67.5°  | 1993.5 | 2097.2 | 2200.8 | 2304.5 | 2408.2 | 2511.9 | 2615.5 | 2719.2 | 2822.9 | 2857.1 | 2891.3 |
| 70°    | 2007.4 | 2110.8 | 2214.2 | 2317.6 | 2421.1 | 2524.5 | 2627.9 | 2731.3 | 2834.7 | 2866.8 | 2898.9 |
| 72.5°  | 1988.5 | 2089.6 | 2190.6 | 2291.6 | 2392.7 | 2493.7 | 2594.7 | 2695.8 | 2796.8 | 2826.3 | 2855.8 |
| 75°    | 1933.7 | 2029.8 | 2125.8 | 2221.9 | 2317.9 | 2414.0 | 2510.0 | 2606.1 | 2702.1 | 2728.9 | 2755.8 |
| 77.5°  | 1844.0 | 1933.2 | 2022.4 | 2111.6 | 2200.9 | 2290.1 | 2379.3 | 2468.5 | 2557.7 | 2582.4 | 2607.2 |
| 80°    | 1724.5 | 1805.6 | 1886.6 | 1967.7 | 2048.7 | 2129.8 | 2210.8 | 2291.9 | 2372.9 | 2395.3 | 2417.6 |
| 82.5°  | 1590.4 | 1662.7 | 1735.1 | 1807.5 | 1879.8 | 1952.2 | 2024.6 | 2096.9 | 2169.3 | 2189.3 | 2209.3 |
| 85°    | 1449.3 | 1513.3 | 1577.2 | 1641.2 | 1705.1 | 1769.1 | 1833.0 | 1897.0 | 1960.9 | 1978.5 | 1996.1 |
| 87.5°  | 1304.1 | 1360.1 | 1416.2 | 1472.2 | 1528.3 | 1584.3 | 1640.4 | 1696.4 | 1752.5 | 1768.5 | 1784.6 |
| 90°    | 1172.0 | 1221.4 | 1270.9 | 1320.4 | 1369.8 | 1419.3 | 1468.8 | 1518.2 | 1567.7 | 1582.4 | 1597.2 |
| 92.5°  | 1069.9 | 1114.4 | 1158.8 | 1203.3 | 1247.8 | 1292.3 | 1336.7 | 1381.2 | 1425.7 | 1439.1 | 1452.5 |
| 95°    | 987.8  | 1028.3 | 1068.9 | 1109.4 | 1149.9 | 1190.4 | 1231.0 | 1271.5 | 1312.0 | 1324.4 | 1336.7 |
| 97.5°  | 916.8  | 954.9  | 993.1  | 1031.2 | 1069.4 | 1107.5 | 1145.7 | 1183.8 | 1222.0 | 1233.8 | 1245.7 |
| 100°   | 856.0  | 892.6  | 929.1  | 965.7  | 1002.3 | 1038.9 | 1075.4 | 1112.0 | 1148.6 | 1160.2 | 1171.8 |
| 102.5° | 805.2  | 840.7  | 876.3  | 911.8  | 947.3  | 982.8  | 1018.4 | 1053.9 | 1089.4 | 1100.7 | 1112.0 |
| 105°   | 759.7  | 794.7  | 829.7  | 864.7  | 899.6  | 934.6  | 969.6  | 1004.6 | 1039.6 | 1050.9 | 1062.2 |
| 107.5° | 719.4  | 754.4  | 789.4  | 824.4  | 859.4  | 894.4  | 929.4  | 964.4  | 999.4  | 1010.7 | 1022.0 |
| 110°   | 681.0  | 715.5  | 749.9  | 784.4  | 818.9  | 853.4  | 887.8  | 922.3  | 956.8  | 968.6  | 980.5  |





TEST NUMBER: P201397

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 137.5° | 140°  | 142.5° | 145°  | 147.5° | 150°  | 152.5° | 155°  | 157.5° | 160°  | 162.5° |
|--------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 112.5° | 643.3  | 678.1 | 712.8  | 747.5 | 782.3  | 817.0 | 851.7  | 886.5 | 921.2  | 933.3 | 945.4  |
| 115°   | 598.9  | 634.1 | 669.4  | 704.7 | 739.9  | 775.2 | 810.5  | 845.7 | 881.0  | 893.6 | 906.2  |
| 117.5° | 560.4  | 595.2 | 629.9  | 664.6 | 699.4  | 734.1 | 768.8  | 803.6 | 838.3  | 851.2 | 864.1  |
| 120°   | 519.4  | 553.4 | 587.3  | 621.3 | 655.2  | 689.2 | 723.1  | 757.1 | 791.0  | 804.2 | 817.3  |
| 122.5° | 477.6  | 509.9 | 542.3  | 574.7 | 607.0  | 639.4 | 671.8  | 704.1 | 736.5  | 749.9 | 763.3  |
| 125°   | 435.5  | 466.0 | 496.6  | 527.1 | 557.6  | 588.1 | 618.7  | 649.2 | 679.7  | 692.9 | 706.0  |
| 127.5° | 388.9  | 417.9 | 446.8  | 475.8 | 504.7  | 533.7 | 562.6  | 591.6 | 620.5  | 632.9 | 645.2  |
| 130°   | 337.3  | 364.4 | 391.5  | 418.6 | 445.8  | 472.9 | 500.0  | 527.1 | 554.2  | 566.3 | 578.4  |
| 132.5° | 286.8  | 313.1 | 339.4  | 365.7 | 392.1  | 418.4 | 444.7  | 471.0 | 497.3  | 508.1 | 518.9  |
| 135°   | 246.5  | 270.5 | 294.4  | 318.4 | 342.3  | 366.3 | 390.2  | 414.2 | 438.1  | 447.6 | 457.1  |
| 137.5° | 207.6  | 228.1 | 248.7  | 269.2 | 289.7  | 310.2 | 330.8  | 351.3 | 371.8  | 381.5 | 391.3  |
| 140°   | 172.6  | 188.9 | 205.2  | 221.5 | 237.9  | 254.2 | 270.5  | 286.8 | 303.1  | 313.1 | 323.1  |
| 142.5° | 141.8  | 155.8 | 169.7  | 183.7 | 197.6  | 211.6 | 225.5  | 239.5 | 253.4  | 261.6 | 269.7  |
| 145°   | 113.6  | 125.5 | 137.3  | 149.2 | 161.0  | 172.9 | 184.7  | 196.6 | 208.4  | 216.3 | 224.2  |
| 147.5° | 90.2   | 100.0 | 109.7  | 119.4 | 129.2  | 138.9 | 148.6  | 158.4 | 168.1  | 175.5 | 182.9  |
| 150°   | 69.5   | 77.4  | 85.3   | 93.2  | 101.0  | 108.9 | 116.8  | 124.7 | 132.6  | 139.7 | 146.8  |
| 152.5° | 51.1   | 57.1  | 63.2   | 69.2  | 75.3   | 81.3  | 87.4   | 93.4  | 99.5   | 106.1 | 112.7  |
| 155°   | 33.4   | 38.4  | 43.4   | 48.4  | 53.4   | 58.4  | 63.4   | 68.4  | 73.4   | 79.5  | 85.5   |
| 157.5° | 18.1   | 22.1  | 26.0   | 30.0  | 33.9   | 37.9  | 41.8   | 45.8  | 49.7   | 55.0  | 60.2   |
| 160°   | 7.6    | 10.5  | 13.4   | 16.3  | 19.2   | 22.1  | 25.0   | 27.9  | 30.8   | 35.3  | 39.7   |
| 162.5° | 1.3    | 2.6   | 3.9    | 5.2   | 6.6    | 7.9   | 9.2    | 10.5  | 11.8   | 15.2  | 18.6   |
| 165°   | 0.3    | 0.5   | 0.8    | 1.1   | 1.3    | 1.6   | 1.9    | 2.1   | 2.4    | 4.5   | 6.6    |
| 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: P201397

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 167.5° | 170°   | 172.5° | 175°   | 177.5° | 180°   | 182.5° | 185°   | 187.5° | 190°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 |
| 2.5°   | 1728.0 | 1726.1 | 1724.3 | 1722.4 | 1720.6 | 1718.7 | 1716.9 | 1718.5 | 1720.1 | 1721.7 | 1723.3 |
| 5°     | 1698.0 | 1697.2 | 1696.5 | 1695.7 | 1694.9 | 1694.1 | 1693.3 | 1694.1 | 1694.9 | 1695.7 | 1696.5 |
| 7.5°   | 1668.8 | 1668.5 | 1668.3 | 1668.0 | 1667.7 | 1667.5 | 1667.2 | 1667.5 | 1667.7 | 1668.0 | 1668.3 |
| 10°    | 1641.1 | 1640.3 | 1639.6 | 1638.8 | 1638.0 | 1637.2 | 1636.4 | 1636.7 | 1636.9 | 1637.2 | 1637.5 |
| 12.5°  | 1616.7 | 1616.4 | 1616.2 | 1615.9 | 1615.6 | 1615.4 | 1615.1 | 1614.8 | 1614.6 | 1614.3 | 1614.0 |
| 15°    | 1598.6 | 1599.4 | 1600.1 | 1600.9 | 1601.7 | 1602.5 | 1603.3 | 1602.5 | 1601.7 | 1600.9 | 1600.1 |
| 17.5°  | 1595.4 | 1597.5 | 1599.6 | 1601.7 | 1603.8 | 1605.9 | 1608.0 | 1605.9 | 1603.8 | 1601.7 | 1599.6 |
| 20°    | 1607.2 | 1610.9 | 1614.6 | 1618.3 | 1621.9 | 1625.6 | 1629.3 | 1625.1 | 1620.9 | 1616.7 | 1612.5 |
| 22.5°  | 1625.3 | 1629.5 | 1633.8 | 1638.0 | 1642.2 | 1646.4 | 1650.6 | 1645.3 | 1640.1 | 1634.8 | 1629.6 |
| 25°    | 1643.5 | 1648.2 | 1653.0 | 1657.7 | 1662.4 | 1667.2 | 1671.9 | 1666.4 | 1660.9 | 1655.3 | 1649.8 |
| 27.5°  | 1662.5 | 1668.0 | 1673.5 | 1679.0 | 1684.6 | 1690.1 | 1695.6 | 1689.3 | 1683.0 | 1676.7 | 1670.4 |
| 30°    | 1683.0 | 1689.8 | 1696.7 | 1703.5 | 1710.3 | 1717.2 | 1724.0 | 1716.6 | 1709.3 | 1701.9 | 1694.5 |
| 32.5°  | 1709.1 | 1717.5 | 1725.9 | 1734.3 | 1742.8 | 1751.2 | 1759.6 | 1750.9 | 1742.2 | 1733.5 | 1724.8 |
| 35°    | 1740.6 | 1750.9 | 1761.1 | 1771.4 | 1781.7 | 1791.9 | 1802.2 | 1791.9 | 1781.7 | 1771.4 | 1761.1 |
| 37.5°  | 1781.7 | 1793.8 | 1805.9 | 1818.0 | 1830.1 | 1842.2 | 1854.3 | 1842.2 | 1830.1 | 1818.0 | 1805.9 |
| 40°    | 1832.2 | 1846.9 | 1861.7 | 1876.4 | 1891.1 | 1905.9 | 1920.6 | 1906.4 | 1892.2 | 1878.0 | 1863.8 |
| 42.5°  | 1895.4 | 1913.0 | 1930.6 | 1948.2 | 1965.9 | 1983.5 | 2001.1 | 1984.3 | 1967.4 | 1950.6 | 1933.8 |
| 45°    | 1970.4 | 1990.9 | 2011.4 | 2031.9 | 2052.5 | 2073.0 | 2093.5 | 2074.8 | 2056.1 | 2037.4 | 2018.7 |
| 47.5°  | 2060.3 | 2084.0 | 2107.7 | 2131.4 | 2155.0 | 2178.7 | 2202.4 | 2180.8 | 2159.2 | 2137.7 | 2116.1 |
| 50°    | 2167.7 | 2194.8 | 2221.9 | 2249.0 | 2276.1 | 2303.2 | 2330.3 | 2305.3 | 2280.3 | 2255.3 | 2230.3 |
| 52.5°  | 2283.8 | 2314.0 | 2344.3 | 2374.5 | 2404.8 | 2435.0 | 2465.3 | 2437.9 | 2410.6 | 2383.2 | 2355.8 |
| 55°    | 2412.4 | 2445.3 | 2478.2 | 2511.1 | 2544.0 | 2576.9 | 2609.8 | 2580.3 | 2550.8 | 2521.4 | 2491.9 |
| 57.5°  | 2543.5 | 2579.0 | 2614.5 | 2650.0 | 2685.6 | 2721.1 | 2756.6 | 2725.0 | 2693.4 | 2661.9 | 2630.3 |
| 60°    | 2669.7 | 2706.3 | 2742.9 | 2779.5 | 2816.0 | 2852.6 | 2889.2 | 2856.8 | 2824.5 | 2792.1 | 2759.7 |
| 62.5°  | 2782.6 | 2818.9 | 2855.3 | 2891.6 | 2927.9 | 2964.2 | 3000.5 | 2968.7 | 2936.8 | 2905.0 | 2873.2 |
| 65°    | 2873.4 | 2909.2 | 2945.0 | 2980.8 | 3016.5 | 3052.3 | 3088.1 | 3057.1 | 3026.0 | 2995.0 | 2963.9 |
| 67.5°  | 2925.5 | 2959.7 | 2994.0 | 3028.2 | 3062.4 | 3096.6 | 3130.8 | 3101.1 | 3071.3 | 3041.6 | 3011.9 |
| 70°    | 2931.0 | 2963.1 | 2995.3 | 3027.4 | 3059.5 | 3091.6 | 3123.7 | 3095.8 | 3067.9 | 3040.0 | 3012.1 |
| 72.5°  | 2885.2 | 2914.7 | 2944.2 | 2973.7 | 3003.1 | 3032.6 | 3062.1 | 3035.8 | 3009.5 | 2983.2 | 2956.9 |
| 75°    | 2782.6 | 2809.5 | 2836.3 | 2863.2 | 2890.0 | 2916.9 | 2943.7 | 2919.2 | 2894.7 | 2870.3 | 2845.8 |
| 77.5°  | 2631.9 | 2656.6 | 2681.4 | 2706.1 | 2730.8 | 2755.6 | 2780.3 | 2757.4 | 2734.5 | 2711.6 | 2688.7 |
| 80°    | 2440.0 | 2462.4 | 2484.7 | 2507.1 | 2529.5 | 2551.8 | 2574.2 | 2552.6 | 2531.0 | 2509.5 | 2487.9 |
| 82.5°  | 2229.3 | 2249.3 | 2269.3 | 2289.3 | 2309.3 | 2329.3 | 2349.3 | 2328.8 | 2308.2 | 2287.7 | 2267.2 |
| 85°    | 2013.8 | 2031.4 | 2049.0 | 2066.6 | 2084.3 | 2101.9 | 2119.5 | 2100.6 | 2081.6 | 2062.7 | 2043.7 |
| 87.5°  | 1800.6 | 1816.7 | 1832.7 | 1848.8 | 1864.8 | 1880.9 | 1896.9 | 1881.6 | 1866.4 | 1851.1 | 1835.9 |
| 90°    | 1611.9 | 1626.7 | 1641.4 | 1656.2 | 1670.9 | 1685.7 | 1700.4 | 1686.2 | 1672.0 | 1657.8 | 1643.6 |
| 92.5°  | 1465.9 | 1479.3 | 1492.8 | 1506.2 | 1519.6 | 1533.0 | 1546.4 | 1533.0 | 1519.6 | 1506.2 | 1492.8 |
| 95°    | 1349.1 | 1361.5 | 1373.8 | 1386.2 | 1398.6 | 1410.9 | 1423.3 | 1411.2 | 1399.1 | 1387.0 | 1374.9 |
| 97.5°  | 1257.5 | 1269.4 | 1281.2 | 1293.1 | 1304.9 | 1316.8 | 1328.6 | 1317.0 | 1305.4 | 1293.9 | 1282.3 |
| 100°   | 1183.3 | 1194.9 | 1206.5 | 1218.1 | 1229.6 | 1241.2 | 1252.8 | 1241.7 | 1230.7 | 1219.6 | 1208.6 |
| 102.5° | 1123.3 | 1134.6 | 1146.0 | 1157.3 | 1168.6 | 1179.9 | 1191.2 | 1180.1 | 1169.1 | 1158.0 | 1147.0 |
| 105°   | 1073.6 | 1084.9 | 1096.2 | 1107.5 | 1118.9 | 1130.2 | 1141.5 | 1131.0 | 1120.4 | 1109.9 | 1099.4 |
| 107.5° | 1033.3 | 1044.6 | 1056.0 | 1067.3 | 1078.6 | 1089.9 | 1101.2 | 1090.4 | 1079.6 | 1068.8 | 1058.0 |
| 110°   | 992.3  | 1004.1 | 1016.0 | 1027.8 | 1039.6 | 1051.5 | 1063.3 | 1052.3 | 1041.2 | 1030.2 | 1019.1 |



TEST NUMBER: P201397

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 167.5° | 170°  | 172.5° | 175°   | 177.5° | 180°   | 182.5° | 185°   | 187.5° | 190°  |
|--------|-------|--------|-------|--------|--------|--------|--------|--------|--------|--------|-------|
| 112.5° | 957.5 | 969.6  | 981.8 | 993.9  | 1006.0 | 1018.1 | 1030.2 | 1018.9 | 1007.6 | 996.2  | 984.9 |
| 115°   | 918.9 | 931.5  | 944.1 | 956.7  | 969.4  | 982.0  | 994.6  | 982.8  | 970.9  | 959.1  | 947.3 |
| 117.5° | 877.0 | 889.9  | 902.8 | 915.7  | 928.6  | 941.5  | 954.4  | 942.3  | 930.2  | 918.1  | 906.0 |
| 120°   | 830.5 | 843.6  | 856.8 | 869.9  | 883.1  | 896.2  | 909.4  | 897.3  | 885.2  | 873.1  | 861.0 |
| 122.5° | 776.8 | 790.2  | 803.6 | 817.0  | 830.5  | 843.9  | 857.3  | 845.2  | 833.1  | 821.0  | 808.9 |
| 125°   | 719.2 | 732.3  | 745.5 | 758.6  | 771.8  | 784.9  | 798.1  | 786.3  | 774.4  | 762.6  | 750.7 |
| 127.5° | 657.6 | 670.0  | 682.3 | 694.7  | 707.1  | 719.4  | 731.8  | 720.7  | 709.7  | 698.6  | 687.6 |
| 130°   | 590.5 | 602.6  | 614.7 | 626.8  | 638.9  | 651.0  | 663.1  | 652.3  | 641.5  | 630.7  | 619.9 |
| 132.5° | 529.7 | 540.5  | 551.2 | 562.0  | 572.8  | 583.6  | 594.4  | 584.7  | 574.9  | 565.2  | 555.5 |
| 135°   | 466.5 | 476.0  | 485.5 | 495.0  | 504.4  | 513.9  | 523.4  | 515.5  | 507.6  | 499.7  | 491.8 |
| 137.5° | 401.0 | 410.7  | 420.5 | 430.2  | 439.9  | 449.7  | 459.4  | 451.8  | 444.2  | 436.5  | 428.9 |
| 140°   | 333.1 | 343.1  | 353.1 | 363.1  | 373.1  | 383.1  | 393.1  | 386.0  | 378.9  | 371.8  | 364.7 |
| 142.5° | 277.9 | 286.0  | 294.2 | 302.3  | 310.5  | 318.6  | 326.8  | 322.1  | 317.3  | 312.6  | 307.9 |
| 145°   | 232.1 | 240.0  | 247.8 | 255.7  | 263.6  | 271.5  | 279.4  | 275.5  | 271.5  | 267.6  | 263.6 |
| 147.5° | 190.2 | 197.6  | 205.0 | 212.4  | 219.7  | 227.1  | 234.5  | 231.3  | 228.2  | 225.0  | 221.8 |
| 150°   | 153.9 | 161.0  | 168.2 | 175.3  | 182.4  | 189.5  | 196.6  | 194.0  | 191.3  | 188.7  | 186.1 |
| 152.5° | 119.2 | 125.8  | 132.4 | 139.0  | 145.5  | 152.1  | 158.7  | 156.6  | 154.5  | 152.4  | 150.3 |
| 155°   | 91.6  | 97.6   | 103.7 | 109.7  | 115.8  | 121.8  | 127.9  | 126.1  | 124.2  | 122.4  | 120.5 |
| 157.5° | 65.5  | 70.8   | 76.0  | 81.3   | 86.6   | 91.8   | 97.1   | 95.8   | 94.5   | 93.2   | 91.9  |
| 160°   | 44.2  | 48.7   | 53.1  | 57.6   | 62.1   | 66.5   | 71.0   | 69.7   | 68.4   | 67.1   | 65.8  |
| 162.5° | 22.1  | 25.5   | 28.9  | 32.3   | 35.8   | 39.2   | 42.6   | 41.8   | 41.0   | 40.2   | 39.4  |
| 165°   | 8.7   | 10.8   | 12.9  | 15.0   | 17.1   | 19.2   | 21.3   | 21.3   | 21.3   | 21.3   | 21.3  |
| 167.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 170°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 172.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 175°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 177.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |
| 180°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |



TEST NUMBER: P201397

CATALOG NUMBER: 8LBLELD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 192.5° | 195°   | 197.5° | 200°   | 202.5° | 205°   | 207.5° | 210°   | 212.5° | 215°   | 217.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 |
| 2.5°   | 1724.8 | 1726.4 | 1728.0 | 1729.6 | 1731.2 | 1733.8 | 1736.4 | 1739.1 | 1741.7 | 1744.3 | 1746.9 |
| 5°     | 1697.2 | 1698.0 | 1698.8 | 1699.6 | 1700.4 | 1703.3 | 1706.2 | 1709.1 | 1712.0 | 1714.8 | 1717.7 |
| 7.5°   | 1668.5 | 1668.8 | 1669.1 | 1669.3 | 1669.6 | 1672.5 | 1675.4 | 1678.3 | 1681.2 | 1684.0 | 1686.9 |
| 10°    | 1637.7 | 1638.0 | 1638.3 | 1638.5 | 1638.8 | 1642.2 | 1645.6 | 1649.1 | 1652.5 | 1655.9 | 1659.3 |
| 12.5°  | 1613.8 | 1613.5 | 1613.2 | 1613.0 | 1612.7 | 1615.9 | 1619.0 | 1622.2 | 1625.4 | 1628.5 | 1631.7 |
| 15°    | 1599.4 | 1598.6 | 1597.8 | 1597.0 | 1596.2 | 1597.5 | 1598.8 | 1600.1 | 1601.4 | 1602.8 | 1604.1 |
| 17.5°  | 1597.5 | 1595.4 | 1593.3 | 1591.2 | 1589.1 | 1588.0 | 1587.0 | 1585.9 | 1584.9 | 1583.8 | 1582.8 |
| 20°    | 1608.2 | 1604.0 | 1599.8 | 1595.6 | 1591.4 | 1586.7 | 1581.9 | 1577.2 | 1572.5 | 1567.7 | 1563.0 |
| 22.5°  | 1624.3 | 1619.1 | 1613.8 | 1608.6 | 1603.3 | 1594.9 | 1586.5 | 1578.0 | 1569.6 | 1561.2 | 1552.8 |
| 25°    | 1644.3 | 1638.8 | 1633.2 | 1627.7 | 1622.2 | 1610.6 | 1599.0 | 1587.5 | 1575.9 | 1564.3 | 1552.7 |
| 27.5°  | 1664.0 | 1657.7 | 1651.4 | 1645.1 | 1638.8 | 1625.4 | 1612.0 | 1598.5 | 1585.1 | 1571.7 | 1558.3 |
| 30°    | 1687.2 | 1679.8 | 1672.4 | 1665.1 | 1657.7 | 1641.7 | 1625.6 | 1609.6 | 1593.5 | 1577.5 | 1561.4 |
| 32.5°  | 1716.2 | 1707.5 | 1698.8 | 1690.1 | 1681.4 | 1662.5 | 1643.5 | 1624.6 | 1605.6 | 1586.7 | 1567.7 |
| 35°    | 1750.9 | 1740.6 | 1730.3 | 1720.1 | 1709.8 | 1687.7 | 1665.6 | 1643.5 | 1621.4 | 1599.3 | 1577.2 |
| 37.5°  | 1793.8 | 1781.7 | 1769.6 | 1757.5 | 1745.4 | 1719.6 | 1693.8 | 1668.0 | 1642.2 | 1616.5 | 1590.7 |
| 40°    | 1849.5 | 1835.3 | 1821.1 | 1806.9 | 1792.7 | 1762.4 | 1732.2 | 1701.9 | 1671.7 | 1641.4 | 1611.2 |
| 42.5°  | 1916.9 | 1900.1 | 1883.3 | 1866.4 | 1849.6 | 1814.3 | 1779.1 | 1743.8 | 1708.5 | 1673.3 | 1638.0 |
| 45°    | 2000.1 | 1981.4 | 1962.7 | 1944.0 | 1925.3 | 1883.2 | 1841.1 | 1799.0 | 1756.9 | 1714.8 | 1672.7 |
| 47.5°  | 2094.5 | 2072.9 | 2051.4 | 2029.8 | 2008.2 | 1959.5 | 1910.8 | 1862.2 | 1813.5 | 1764.8 | 1716.1 |
| 50°    | 2205.3 | 2180.3 | 2155.3 | 2130.3 | 2105.3 | 2049.3 | 1993.2 | 1937.2 | 1881.1 | 1825.1 | 1769.0 |
| 52.5°  | 2328.5 | 2301.1 | 2273.7 | 2246.4 | 2219.0 | 2154.5 | 2090.1 | 2025.6 | 1961.1 | 1896.7 | 1832.2 |
| 55°    | 2462.4 | 2432.9 | 2403.5 | 2374.0 | 2344.5 | 2271.1 | 2197.7 | 2124.3 | 2050.9 | 1977.4 | 1904.0 |
| 57.5°  | 2598.7 | 2567.1 | 2535.6 | 2504.0 | 2472.4 | 2391.1 | 2309.8 | 2228.5 | 2147.2 | 2065.8 | 1984.5 |
| 60°    | 2727.4 | 2695.0 | 2662.6 | 2630.3 | 2597.9 | 2509.2 | 2420.5 | 2331.9 | 2243.2 | 2154.5 | 2065.8 |
| 62.5°  | 2841.3 | 2809.5 | 2777.7 | 2745.8 | 2714.0 | 2619.0 | 2524.0 | 2429.0 | 2334.0 | 2239.0 | 2144.0 |
| 65°    | 2932.9 | 2901.8 | 2870.8 | 2839.7 | 2808.7 | 2709.0 | 2609.2 | 2509.5 | 2409.8 | 2310.0 | 2210.3 |
| 67.5°  | 2982.1 | 2952.4 | 2922.7 | 2892.9 | 2863.2 | 2761.6 | 2660.0 | 2558.5 | 2456.9 | 2355.3 | 2253.7 |
| 70°    | 2984.2 | 2956.3 | 2928.4 | 2900.5 | 2872.6 | 2771.3 | 2670.0 | 2568.7 | 2467.4 | 2366.1 | 2264.8 |
| 72.5°  | 2930.5 | 2904.2 | 2877.9 | 2851.6 | 2825.3 | 2727.4 | 2629.5 | 2531.6 | 2433.7 | 2335.9 | 2238.0 |
| 75°    | 2821.3 | 2796.8 | 2772.4 | 2747.9 | 2723.4 | 2631.0 | 2538.7 | 2446.3 | 2354.0 | 2261.6 | 2169.3 |
| 77.5°  | 2665.8 | 2642.9 | 2620.0 | 2597.1 | 2574.2 | 2488.9 | 2403.7 | 2318.4 | 2233.2 | 2147.9 | 2062.7 |
| 80°    | 2466.3 | 2444.7 | 2423.2 | 2401.6 | 2380.0 | 2302.9 | 2225.8 | 2148.7 | 2071.6 | 1994.6 | 1917.5 |
| 82.5°  | 2246.6 | 2226.1 | 2205.6 | 2185.0 | 2164.5 | 2096.6 | 2028.7 | 1960.8 | 1892.9 | 1825.1 | 1757.2 |
| 85°    | 2024.8 | 2005.8 | 1986.9 | 1967.9 | 1949.0 | 1889.3 | 1829.5 | 1769.8 | 1710.1 | 1650.3 | 1590.6 |
| 87.5°  | 1820.6 | 1805.4 | 1790.1 | 1774.9 | 1759.6 | 1705.1 | 1650.7 | 1596.2 | 1541.7 | 1487.3 | 1432.8 |
| 90°    | 1629.3 | 1615.1 | 1600.9 | 1586.7 | 1572.5 | 1524.6 | 1476.7 | 1428.8 | 1380.9 | 1333.1 | 1285.2 |
| 92.5°  | 1479.3 | 1465.9 | 1452.5 | 1439.1 | 1425.7 | 1383.3 | 1341.0 | 1298.6 | 1256.2 | 1213.9 | 1171.5 |
| 95°    | 1362.8 | 1350.7 | 1338.6 | 1326.5 | 1314.4 | 1275.5 | 1236.5 | 1197.6 | 1158.6 | 1119.7 | 1080.7 |
| 97.5°  | 1270.7 | 1259.1 | 1247.6 | 1236.0 | 1224.4 | 1187.8 | 1151.2 | 1114.7 | 1078.1 | 1041.5 | 1004.9 |
| 100°   | 1197.5 | 1186.5 | 1175.4 | 1164.4 | 1153.3 | 1118.0 | 1082.8 | 1047.5 | 1012.3 | 977.0  | 941.8  |
| 102.5° | 1135.9 | 1124.9 | 1113.8 | 1102.8 | 1091.7 | 1057.5 | 1023.3 | 989.1  | 954.9  | 920.7  | 886.5  |
| 105°   | 1088.8 | 1078.3 | 1067.8 | 1057.2 | 1046.7 | 1012.8 | 978.8  | 944.9  | 910.9  | 877.0  | 843.0  |
| 107.5° | 1047.3 | 1036.5 | 1025.7 | 1014.9 | 1004.1 | 970.7  | 937.3  | 903.9  | 870.5  | 837.0  | 803.6  |
| 110°   | 1008.1 | 997.0  | 986.0  | 974.9  | 963.9  | 930.7  | 897.6  | 864.4  | 831.3  | 798.1  | 765.0  |



TEST NUMBER: P201397

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 192.5° | 195°  | 197.5° | 200°  | 202.5° | 205°  | 207.5° | 210°  | 212.5° | 215°  | 217.5° |
|--------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 112.5° | 973.6  | 962.3 | 950.9  | 939.6 | 928.3  | 895.1 | 862.0  | 828.8 | 795.7  | 762.5 | 729.4  |
| 115°   | 935.4  | 923.6 | 911.8  | 899.9 | 888.1  | 854.9 | 821.8  | 788.6 | 755.5  | 722.3 | 689.2  |
| 117.5° | 893.8  | 881.7 | 869.6  | 857.5 | 845.4  | 812.0 | 778.6  | 745.2 | 711.8  | 678.3 | 644.9  |
| 120°   | 848.9  | 836.8 | 824.7  | 812.6 | 800.5  | 767.6 | 734.7  | 701.8 | 668.9  | 636.0 | 603.1  |
| 122.5° | 796.8  | 784.7 | 772.6  | 760.5 | 748.4  | 716.8 | 685.2  | 653.7 | 622.1  | 590.5 | 558.9  |
| 125°   | 738.9  | 727.0 | 715.2  | 703.3 | 691.5  | 661.5 | 631.5  | 601.5 | 571.5  | 541.5 | 511.5  |
| 127.5° | 676.5  | 665.5 | 654.4  | 643.4 | 632.3  | 604.4 | 576.5  | 548.6 | 520.7  | 492.9 | 465.0  |
| 130°   | 609.2  | 598.4 | 587.6  | 576.8 | 566.0  | 541.0 | 516.0  | 491.0 | 466.0  | 441.0 | 416.0  |
| 132.5° | 545.7  | 536.0 | 526.3  | 516.5 | 506.8  | 482.9 | 458.9  | 435.0 | 411.0  | 387.1 | 363.1  |
| 135°   | 483.9  | 476.0 | 468.1  | 460.2 | 452.3  | 430.7 | 409.1  | 387.6 | 366.0  | 344.4 | 322.8  |
| 137.5° | 421.3  | 413.7 | 406.0  | 398.4 | 390.8  | 372.6 | 354.5  | 336.3 | 318.1  | 300.0 | 281.8  |
| 140°   | 357.6  | 350.5 | 343.4  | 336.3 | 329.2  | 314.7 | 300.2  | 285.8 | 271.3  | 256.8 | 242.3  |
| 142.5° | 303.1  | 298.4 | 293.7  | 288.9 | 284.2  | 271.6 | 258.9  | 246.3 | 233.7  | 221.0 | 208.4  |
| 145°   | 259.7  | 255.7 | 251.8  | 247.8 | 243.9  | 233.1 | 222.3  | 211.5 | 200.7  | 190.0 | 179.2  |
| 147.5° | 218.7  | 215.5 | 212.3  | 209.2 | 206.0  | 196.8 | 187.6  | 178.4 | 169.2  | 159.9 | 150.7  |
| 150°   | 183.4  | 180.8 | 178.2  | 175.5 | 172.9  | 164.7 | 156.6  | 148.4 | 140.3  | 132.1 | 124.0  |
| 152.5° | 148.1  | 146.0 | 143.9  | 141.8 | 139.7  | 133.1 | 126.5  | 120.0 | 113.4  | 106.8 | 100.2  |
| 155°   | 118.7  | 116.8 | 115.0  | 113.1 | 111.3  | 105.8 | 100.3  | 94.7  | 89.2   | 83.7  | 78.2   |
| 157.5° | 90.5   | 89.2  | 87.9   | 86.6  | 85.3   | 80.3  | 75.3   | 70.3  | 65.3   | 60.3  | 55.3   |
| 160°   | 64.4   | 63.1  | 61.8   | 60.5  | 59.2   | 55.5  | 51.8   | 48.2  | 44.5   | 40.8  | 37.1   |
| 162.5° | 38.7   | 37.9  | 37.1   | 36.3  | 35.5   | 33.7  | 31.8   | 30.0  | 28.1   | 26.3  | 24.4   |
| 165°   | 21.3   | 21.3  | 21.3   | 21.3  | 21.3   | 20.2  | 19.2   | 18.1  | 17.1   | 16.0  | 15.0   |
| 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: P201397

CATALOG NUMBER: 8LBLELD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 222.5° | 225°   | 227.5° | 230°   | 232.5° | 235°   | 237.5° | 240°   | 242.5° | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 |
| 2.5°   | 1749.6 | 1752.2 | 1754.8 | 1755.1 | 1755.3 | 1755.6 | 1755.9 | 1756.1 | 1756.4 | 1756.7 | 1756.9 |
| 5°     | 1720.6 | 1723.5 | 1726.4 | 1727.5 | 1728.5 | 1729.6 | 1730.6 | 1731.7 | 1732.7 | 1733.8 | 1734.8 |
| 7.5°   | 1689.8 | 1692.7 | 1695.6 | 1697.2 | 1698.8 | 1700.3 | 1701.9 | 1703.5 | 1705.1 | 1706.6 | 1708.2 |
| 10°    | 1662.8 | 1666.2 | 1669.6 | 1670.4 | 1671.2 | 1672.0 | 1672.8 | 1673.5 | 1674.3 | 1675.1 | 1675.9 |
| 12.5°  | 1634.9 | 1638.0 | 1641.2 | 1641.5 | 1641.7 | 1642.0 | 1642.2 | 1642.5 | 1642.7 | 1643.0 | 1643.2 |
| 15°    | 1605.4 | 1606.7 | 1608.0 | 1608.3 | 1608.5 | 1608.8 | 1609.1 | 1609.3 | 1609.6 | 1609.9 | 1610.1 |
| 17.5°  | 1581.7 | 1580.7 | 1579.6 | 1578.5 | 1577.5 | 1576.4 | 1575.4 | 1574.3 | 1573.3 | 1572.2 | 1571.2 |
| 20°    | 1558.3 | 1553.5 | 1548.8 | 1546.4 | 1544.1 | 1541.7 | 1539.3 | 1537.0 | 1534.6 | 1532.2 | 1529.9 |
| 22.5°  | 1544.3 | 1535.9 | 1527.5 | 1522.0 | 1516.5 | 1510.9 | 1505.4 | 1499.9 | 1494.4 | 1488.8 | 1483.3 |
| 25°    | 1541.2 | 1529.6 | 1518.0 | 1508.3 | 1498.5 | 1488.8 | 1479.1 | 1469.3 | 1459.6 | 1449.9 | 1440.1 |
| 27.5°  | 1544.8 | 1531.4 | 1518.0 | 1502.5 | 1487.0 | 1471.4 | 1455.9 | 1440.4 | 1424.9 | 1409.3 | 1393.8 |
| 30°    | 1545.4 | 1529.3 | 1513.3 | 1492.8 | 1472.3 | 1451.7 | 1431.2 | 1410.7 | 1390.2 | 1369.6 | 1349.1 |
| 32.5°  | 1548.8 | 1529.8 | 1510.9 | 1485.4 | 1459.9 | 1434.3 | 1408.8 | 1383.3 | 1357.8 | 1332.2 | 1306.7 |
| 35°    | 1555.1 | 1533.0 | 1510.9 | 1479.9 | 1448.8 | 1417.8 | 1386.7 | 1355.7 | 1324.6 | 1293.6 | 1262.5 |
| 37.5°  | 1564.9 | 1539.1 | 1513.3 | 1477.2 | 1441.2 | 1405.1 | 1369.1 | 1333.0 | 1297.0 | 1260.9 | 1224.9 |
| 40°    | 1580.9 | 1550.7 | 1520.4 | 1479.9 | 1439.4 | 1398.8 | 1358.3 | 1317.8 | 1277.3 | 1236.7 | 1196.2 |
| 42.5°  | 1602.7 | 1567.5 | 1532.2 | 1486.7 | 1441.2 | 1395.6 | 1350.1 | 1304.6 | 1259.1 | 1213.5 | 1168.0 |
| 45°    | 1630.6 | 1588.5 | 1546.4 | 1495.9 | 1445.4 | 1394.8 | 1344.3 | 1293.8 | 1243.3 | 1192.7 | 1142.2 |
| 47.5°  | 1667.5 | 1618.8 | 1570.1 | 1514.1 | 1458.0 | 1402.0 | 1345.9 | 1289.9 | 1233.8 | 1177.8 | 1121.7 |
| 50°    | 1713.0 | 1656.9 | 1600.9 | 1538.3 | 1475.7 | 1413.0 | 1350.4 | 1287.8 | 1225.2 | 1162.5 | 1099.9 |
| 52.5°  | 1767.7 | 1703.3 | 1638.8 | 1569.1 | 1499.3 | 1429.6 | 1359.9 | 1290.1 | 1220.4 | 1150.7 | 1080.9 |
| 55°    | 1830.6 | 1757.2 | 1683.8 | 1606.7 | 1529.6 | 1452.5 | 1375.4 | 1298.3 | 1221.2 | 1144.1 | 1067.0 |
| 57.5°  | 1903.2 | 1821.9 | 1740.6 | 1654.6 | 1568.5 | 1482.5 | 1396.4 | 1310.4 | 1224.3 | 1138.3 | 1052.2 |
| 60°    | 1977.2 | 1888.5 | 1799.8 | 1704.8 | 1609.8 | 1514.8 | 1419.8 | 1324.9 | 1229.9 | 1134.9 | 1039.9 |
| 62.5°  | 2049.0 | 1954.0 | 1859.0 | 1755.3 | 1651.7 | 1548.0 | 1444.3 | 1340.7 | 1237.0 | 1133.3 | 1029.7 |
| 65°    | 2110.6 | 2010.8 | 1911.1 | 1799.3 | 1687.5 | 1575.6 | 1463.8 | 1352.0 | 1240.2 | 1128.3 | 1016.5 |
| 67.5°  | 2152.2 | 2050.6 | 1949.0 | 1830.1 | 1711.1 | 1592.2 | 1473.3 | 1354.3 | 1235.4 | 1116.5 | 997.5  |
| 70°    | 2163.5 | 2062.2 | 1960.9 | 1837.2 | 1713.5 | 1589.9 | 1466.2 | 1342.5 | 1218.8 | 1095.2 | 971.5  |
| 72.5°  | 2140.1 | 2042.2 | 1944.3 | 1818.5 | 1692.7 | 1567.0 | 1441.2 | 1315.4 | 1189.6 | 1063.9 | 938.1  |
| 75°    | 2076.9 | 1984.6 | 1892.2 | 1767.7 | 1643.3 | 1518.8 | 1394.3 | 1269.9 | 1145.4 | 1020.9 | 896.5  |
| 77.5°  | 1977.4 | 1892.2 | 1806.9 | 1686.9 | 1566.9 | 1446.9 | 1326.9 | 1207.0 | 1087.0 | 967.0  | 847.0  |
| 80°    | 1840.4 | 1763.3 | 1686.2 | 1574.1 | 1462.0 | 1349.9 | 1237.8 | 1125.7 | 1013.6 | 901.5  | 789.4  |
| 82.5°  | 1689.3 | 1621.4 | 1553.5 | 1450.4 | 1347.2 | 1244.1 | 1140.9 | 1037.8 | 934.6  | 831.5  | 728.3  |
| 85°    | 1530.9 | 1471.1 | 1411.4 | 1317.7 | 1224.1 | 1130.4 | 1036.7 | 943.1  | 849.4  | 755.7  | 662.1  |
| 87.5°  | 1378.3 | 1323.9 | 1269.4 | 1185.7 | 1102.0 | 1018.4 | 934.7  | 851.0  | 767.3  | 683.7  | 600.0  |
| 90°    | 1237.3 | 1189.4 | 1141.5 | 1066.5 | 991.5  | 916.5  | 841.5  | 766.5  | 691.5  | 616.5  | 541.5  |
| 92.5°  | 1129.1 | 1086.8 | 1044.4 | 976.8  | 909.1  | 841.5  | 773.9  | 706.2  | 638.6  | 571.0  | 503.3  |
| 95°    | 1041.8 | 1002.8 | 963.9  | 901.5  | 839.2  | 776.8  | 714.4  | 652.1  | 589.7  | 527.3  | 465.0  |
| 97.5°  | 968.4  | 931.8  | 895.2  | 837.3  | 779.4  | 721.5  | 663.6  | 605.8  | 547.9  | 490.0  | 432.1  |
| 100°   | 906.5  | 871.3  | 836.0  | 781.5  | 727.1  | 672.6  | 618.1  | 563.7  | 509.2  | 454.7  | 400.3  |
| 102.5° | 852.3  | 818.1  | 783.9  | 732.1  | 680.2  | 628.4  | 576.5  | 524.7  | 472.8  | 421.0  | 369.1  |
| 105°   | 809.1  | 775.1  | 741.2  | 691.2  | 641.2  | 591.2  | 541.2  | 491.3  | 441.3  | 391.3  | 341.3  |
| 107.5° | 770.2  | 736.8  | 703.4  | 655.0  | 606.6  | 558.1  | 509.7  | 461.3  | 412.9  | 364.4  | 316.0  |
| 110°   | 731.8  | 698.7  | 665.5  | 618.9  | 572.3  | 525.8  | 479.2  | 432.6  | 386.0  | 339.5  | 292.9  |



TEST NUMBER: P201397

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 220°  | 222.5° | 225°  | 227.5° | 230°  | 232.5° | 235°  | 237.5° | 240°  | 242.5° | 245°  |
|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 112.5° | 696.2 | 663.1  | 629.9 | 584.6  | 539.4 | 494.1  | 448.9 | 403.6  | 358.4 | 313.1  | 267.9 |
| 115°   | 656.0 | 622.9  | 589.7 | 546.5  | 503.4 | 460.2  | 417.1 | 373.9  | 330.8 | 287.6  | 244.5 |
| 117.5° | 611.5 | 578.1  | 544.7 | 504.4  | 464.2 | 423.9  | 383.7 | 343.4  | 303.2 | 262.9  | 222.7 |
| 120°   | 570.2 | 537.3  | 504.4 | 466.5  | 428.6 | 390.7  | 352.8 | 315.0  | 277.1 | 239.2  | 201.3 |
| 122.5° | 527.4 | 495.8  | 464.2 | 429.2  | 394.2 | 359.2  | 324.2 | 289.2  | 254.2 | 219.2  | 184.2 |
| 125°   | 481.5 | 451.5  | 421.5 | 389.4  | 357.3 | 325.2  | 293.1 | 261.0  | 228.9 | 196.8  | 164.7 |
| 127.5° | 437.1 | 409.2  | 381.3 | 352.1  | 322.9 | 293.7  | 264.5 | 235.2  | 206.0 | 176.8  | 147.6 |
| 130°   | 391.0 | 366.0  | 341.0 | 315.0  | 288.9 | 262.9  | 236.8 | 210.8  | 184.7 | 158.7  | 132.6 |
| 132.5° | 339.2 | 315.2  | 291.3 | 269.2  | 247.1 | 225.0  | 202.9 | 180.8  | 158.7 | 136.6  | 114.5 |
| 135°   | 301.3 | 279.7  | 258.1 | 238.4  | 218.6 | 198.9  | 179.2 | 159.4  | 139.7 | 120.0  | 100.2 |
| 137.5° | 263.6 | 245.5  | 227.3 | 209.4  | 191.5 | 173.6  | 155.7 | 137.9  | 120.0 | 102.1  | 84.2  |
| 140°   | 227.9 | 213.4  | 198.9 | 182.9  | 166.8 | 150.8  | 134.7 | 118.7  | 102.6 | 86.6   | 70.5  |
| 142.5° | 195.8 | 183.1  | 170.5 | 156.3  | 142.1 | 127.9  | 113.7 | 99.4   | 85.2  | 71.0   | 56.8  |
| 145°   | 168.4 | 157.6  | 146.8 | 134.2  | 121.6 | 108.9  | 96.3  | 83.7   | 71.1  | 58.4   | 45.8  |
| 147.5° | 141.5 | 132.3  | 123.1 | 112.3  | 101.5 | 90.8   | 80.0  | 69.2   | 58.4  | 47.7   | 36.9  |
| 150°   | 115.8 | 107.7  | 99.5  | 90.8   | 82.1  | 73.4   | 64.7  | 56.1   | 47.4  | 38.7   | 30.0  |
| 152.5° | 93.7  | 87.1   | 80.5  | 73.7   | 66.8  | 60.0   | 53.1  | 46.3   | 39.4  | 32.6   | 25.7  |
| 155°   | 72.6  | 67.1   | 61.6  | 56.3   | 51.1  | 45.8   | 40.5  | 35.3   | 30.0  | 24.7   | 19.5  |
| 157.5° | 50.3  | 45.3   | 40.3  | 36.9   | 33.5  | 30.0   | 26.6  | 23.2   | 19.8  | 16.3   | 12.9  |
| 160°   | 33.5  | 29.8   | 26.1  | 24.0   | 21.9  | 19.8   | 17.7  | 15.5   | 13.4  | 11.3   | 9.2   |
| 162.5° | 22.6  | 20.7   | 18.9  | 17.3   | 15.7  | 14.2   | 12.6  | 11.0   | 9.4   | 7.9    | 6.3   |
| 165°   | 13.9  | 12.9   | 11.8  | 11.0   | 10.2  | 9.4    | 8.6   | 7.9    | 7.1   | 6.3    | 5.5   |
| 167.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 170°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 172.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 175°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 177.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 180°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |



TEST NUMBER: P201397

CATALOG NUMBER: 8LBLEDD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 252.5° | 255°   | 257.5° | 260°   | 262.5° | 265°   | 267.5° | 270°   | 272.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 |
| 2.5°   | 1757.2 | 1762.2 | 1767.2 | 1772.2 | 1777.2 | 1782.2 | 1787.2 | 1792.2 | 1797.2 | 1802.2 | 1801.7 |
| 5°     | 1735.9 | 1742.2 | 1748.5 | 1754.8 | 1761.1 | 1767.5 | 1773.8 | 1780.1 | 1786.4 | 1792.7 | 1794.0 |
| 7.5°   | 1709.8 | 1716.9 | 1724.0 | 1731.1 | 1738.2 | 1745.4 | 1752.5 | 1759.6 | 1766.7 | 1773.8 | 1777.2 |
| 10°    | 1676.7 | 1685.1 | 1693.5 | 1702.0 | 1710.4 | 1718.8 | 1727.2 | 1735.7 | 1744.1 | 1752.5 | 1757.5 |
| 12.5°  | 1643.5 | 1652.4 | 1661.4 | 1670.3 | 1679.3 | 1688.2 | 1697.2 | 1706.1 | 1715.1 | 1724.0 | 1731.1 |
| 15°    | 1610.4 | 1619.6 | 1628.8 | 1638.0 | 1647.2 | 1656.5 | 1665.7 | 1674.9 | 1684.1 | 1693.3 | 1702.5 |
| 17.5°  | 1570.1 | 1579.6 | 1589.1 | 1598.5 | 1608.0 | 1617.5 | 1627.0 | 1636.4 | 1645.9 | 1655.4 | 1666.7 |
| 20°    | 1527.5 | 1537.0 | 1546.4 | 1555.9 | 1565.4 | 1574.8 | 1584.3 | 1593.8 | 1603.2 | 1612.7 | 1625.9 |
| 22.5°  | 1477.8 | 1486.7 | 1495.7 | 1504.6 | 1513.6 | 1522.5 | 1531.5 | 1540.4 | 1549.4 | 1558.3 | 1574.6 |
| 25°    | 1430.4 | 1439.1 | 1447.8 | 1456.4 | 1465.1 | 1473.8 | 1482.5 | 1491.1 | 1499.8 | 1508.5 | 1526.7 |
| 27.5°  | 1378.3 | 1386.7 | 1395.1 | 1403.6 | 1412.0 | 1420.4 | 1428.8 | 1437.3 | 1445.7 | 1454.1 | 1474.6 |
| 30°    | 1328.6 | 1335.7 | 1342.8 | 1349.9 | 1357.0 | 1364.1 | 1371.2 | 1378.3 | 1385.4 | 1392.5 | 1415.7 |
| 32.5°  | 1281.2 | 1286.2 | 1291.2 | 1296.2 | 1301.2 | 1306.2 | 1311.2 | 1316.2 | 1321.2 | 1326.2 | 1352.5 |
| 35°    | 1231.5 | 1234.4 | 1237.3 | 1240.2 | 1243.1 | 1245.9 | 1248.8 | 1251.7 | 1254.6 | 1257.5 | 1287.2 |
| 37.5°  | 1188.8 | 1188.8 | 1188.8 | 1188.8 | 1188.8 | 1188.8 | 1188.8 | 1188.8 | 1188.8 | 1188.8 | 1222.5 |
| 40°    | 1155.7 | 1151.5 | 1147.3 | 1143.1 | 1138.9 | 1134.6 | 1130.4 | 1126.2 | 1122.0 | 1117.8 | 1155.7 |
| 42.5°  | 1122.5 | 1113.6 | 1104.6 | 1095.7 | 1086.7 | 1077.8 | 1068.8 | 1059.9 | 1050.9 | 1042.0 | 1084.9 |
| 45°    | 1091.7 | 1078.3 | 1064.9 | 1051.5 | 1038.1 | 1024.6 | 1011.2 | 997.8  | 984.4  | 971.0  | 1018.6 |
| 47.5°  | 1065.7 | 1047.0 | 1028.3 | 1009.6 | 990.9  | 972.3  | 953.6  | 934.9  | 916.2  | 897.5  | 949.9  |
| 50°    | 1037.3 | 1013.9 | 990.5  | 967.0  | 943.6  | 920.2  | 896.8  | 873.3  | 849.9  | 826.5  | 883.9  |
| 52.5°  | 1011.2 | 983.0  | 954.9  | 926.7  | 898.6  | 870.4  | 842.3  | 814.1  | 786.0  | 757.8  | 819.9  |
| 55°    | 989.9  | 956.7  | 923.6  | 890.4  | 857.3  | 824.1  | 791.0  | 757.8  | 724.7  | 691.5  | 758.3  |
| 57.5°  | 966.2  | 928.3  | 890.4  | 852.5  | 814.6  | 776.8  | 738.9  | 701.0  | 663.1  | 625.2  | 697.0  |
| 60°    | 944.9  | 901.5  | 858.1  | 814.7  | 771.3  | 727.8  | 684.4  | 641.0  | 597.6  | 554.2  | 631.8  |
| 62.5°  | 926.0  | 877.8  | 829.7  | 781.5  | 733.4  | 685.2  | 637.1  | 588.9  | 540.8  | 492.6  | 575.2  |
| 65°    | 904.7  | 852.3  | 800.0  | 747.6  | 695.2  | 642.9  | 590.5  | 538.1  | 485.8  | 433.4  | 520.5  |
| 67.5°  | 878.6  | 822.6  | 766.5  | 710.5  | 654.4  | 598.4  | 542.3  | 486.3  | 430.2  | 374.2  | 465.2  |
| 70°    | 847.8  | 789.1  | 730.4  | 671.8  | 613.1  | 554.4  | 495.7  | 437.1  | 378.4  | 319.7  | 413.6  |
| 72.5°  | 812.3  | 751.5  | 690.7  | 629.9  | 569.1  | 508.4  | 447.6  | 386.8  | 326.0  | 265.2  | 361.2  |
| 75°    | 772.0  | 710.2  | 648.3  | 586.5  | 524.7  | 462.8  | 401.0  | 339.2  | 277.3  | 215.5  | 312.6  |
| 77.5°  | 727.0  | 665.2  | 603.3  | 541.5  | 479.7  | 417.8  | 356.0  | 294.2  | 232.3  | 170.5  | 267.1  |
| 80°    | 677.3  | 616.0  | 554.7  | 493.4  | 432.1  | 370.7  | 309.4  | 248.1  | 186.8  | 125.5  | 220.5  |
| 82.5°  | 625.2  | 565.5  | 505.7  | 446.0  | 386.3  | 326.5  | 266.8  | 207.1  | 147.3  | 87.6   | 179.7  |
| 85°    | 568.4  | 511.0  | 453.7  | 396.3  | 338.9  | 281.6  | 224.2  | 166.8  | 109.5  | 52.1   | 140.8  |
| 87.5°  | 516.3  | 461.3  | 406.3  | 351.3  | 296.3  | 241.3  | 186.3  | 131.3  | 76.3   | 21.3   | 105.5  |
| 90°    | 466.5  | 414.7  | 362.8  | 311.0  | 259.2  | 207.3  | 155.5  | 103.7  | 51.8   | 0.0    | 78.9   |
| 92.5°  | 435.7  | 387.3  | 338.9  | 290.5  | 242.1  | 193.6  | 145.2  | 96.8   | 48.4   | 0.0    | 73.2   |
| 95°    | 402.6  | 357.9  | 313.1  | 268.4  | 223.7  | 178.9  | 134.2  | 89.5   | 44.7   | 0.0    | 67.4   |
| 97.5°  | 374.2  | 332.6  | 291.0  | 249.5  | 207.9  | 166.3  | 124.7  | 83.2   | 41.6   | 0.0    | 61.3   |
| 100°   | 345.8  | 307.4  | 269.0  | 230.5  | 192.1  | 153.7  | 115.3  | 76.8   | 38.4   | 0.0    | 56.0   |
| 102.5° | 317.3  | 282.0  | 246.8  | 211.5  | 176.3  | 141.0  | 105.8  | 70.5   | 35.3   | 0.0    | 51.0   |
| 105°   | 291.3  | 258.9  | 226.6  | 194.2  | 161.8  | 129.5  | 97.1   | 64.7   | 32.4   | 0.0    | 46.6   |
| 107.5° | 267.6  | 237.9  | 208.1  | 178.4  | 148.7  | 118.9  | 89.2   | 59.5   | 29.7   | 0.0    | 42.4   |
| 110°   | 246.3  | 218.9  | 191.6  | 164.2  | 136.8  | 109.5  | 82.1   | 54.7   | 27.4   | 0.0    | 38.2   |





TEST NUMBER: P201397

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 252.5° | 255°  | 257.5° | 260° | 262.5° | 265° | 267.5° | 270° | 272.5° |
|--------|--------|-------|--------|-------|--------|------|--------|------|--------|------|--------|
| 112.5° | 222.6  | 197.9 | 173.1  | 148.4 | 123.7  | 98.9 | 74.2   | 49.5 | 24.7   | 0.0  | 34.7   |
| 115°   | 201.3  | 179.2 | 157.1  | 135.0 | 112.9  | 90.8 | 68.7   | 46.6 | 24.5   | 2.4  | 33.7   |
| 117.5° | 182.4  | 162.4 | 142.4  | 122.4 | 102.4  | 82.4 | 62.4   | 42.4 | 22.4   | 2.4  | 30.6   |
| 120°   | 163.4  | 145.5 | 127.6  | 109.7 | 91.8   | 74.0 | 56.1   | 38.2 | 20.3   | 2.4  | 27.9   |
| 122.5° | 149.2  | 132.9 | 116.6  | 100.3 | 84.0   | 67.6 | 51.3   | 35.0 | 18.7   | 2.4  | 25.0   |
| 125°   | 132.6  | 118.1 | 103.7  | 89.2  | 74.7   | 60.3 | 45.8   | 31.3 | 16.9   | 2.4  | 22.1   |
| 127.5° | 118.4  | 105.5 | 92.6   | 79.7  | 66.8   | 54.0 | 41.1   | 28.2 | 15.3   | 2.4  | 19.0   |
| 130°   | 106.6  | 95.0  | 83.4   | 71.9  | 60.3   | 48.7 | 37.1   | 25.6 | 14.0   | 2.4  | 15.8   |
| 132.5° | 92.4   | 82.4  | 72.4   | 62.4  | 52.4   | 42.4 | 32.4   | 22.4 | 12.4   | 2.4  | 13.2   |
| 135°   | 80.5   | 71.8  | 63.1   | 54.5  | 45.8   | 37.1 | 28.4   | 19.8 | 11.1   | 2.4  | 10.6   |
| 137.5° | 66.3   | 59.2  | 52.1   | 45.0  | 37.9   | 30.8 | 23.7   | 16.6 | 9.5    | 2.4  | 8.2    |
| 140°   | 54.5   | 48.7  | 42.9   | 37.1  | 31.3   | 25.6 | 19.8   | 14.0 | 8.2    | 2.4  | 6.3    |
| 142.5° | 42.6   | 38.1  | 33.7   | 29.2  | 24.7   | 20.3 | 15.8   | 11.3 | 6.9    | 2.4  | 5.0    |
| 145°   | 33.2   | 29.8  | 26.4   | 22.9  | 19.5   | 16.1 | 12.7   | 9.2  | 5.8    | 2.4  | 4.0    |
| 147.5° | 26.1   | 23.5  | 20.8   | 18.2  | 15.6   | 12.9 | 10.3   | 7.7  | 5.0    | 2.4  | 3.4    |
| 150°   | 21.3   | 19.2  | 17.1   | 15.0  | 12.9   | 10.8 | 8.7    | 6.6  | 4.5    | 2.4  | 3.2    |
| 152.5° | 18.9   | 17.1  | 15.2   | 13.4  | 11.6   | 9.7  | 7.9    | 6.1  | 4.2    | 2.4  | 2.9    |
| 155°   | 14.2   | 12.9  | 11.6   | 10.3  | 9.0    | 7.6  | 6.3    | 5.0  | 3.7    | 2.4  | 2.7    |
| 157.5° | 9.5    | 8.7   | 7.9    | 7.1   | 6.3    | 5.6  | 4.8    | 4.0  | 3.2    | 2.4  | 2.4    |
| 160°   | 7.1    | 6.6   | 6.1    | 5.5   | 5.0    | 4.5  | 4.0    | 3.4  | 2.9    | 2.4  | 2.4    |
| 162.5° | 4.7    | 4.4   | 4.2    | 3.9   | 3.7    | 3.4  | 3.2    | 2.9  | 2.7    | 2.4  | 2.4    |
| 165°   | 4.7    | 4.4   | 4.2    | 3.9   | 3.7    | 3.4  | 3.2    | 2.9  | 2.7    | 2.4  | 2.1    |
| 167.5° | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 170°   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 172.5° | 0.0    | 0.0   | 0.0    | 0.0   | 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: P201397

CATALOG NUMBER: 8LBLELD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 277.5° | 280°   | 282.5° | 285°   | 287.5° | 290°   | 292.5° | 295°   | 297.5° | 300°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 |
| 2.5°   | 1801.2 | 1800.6 | 1800.1 | 1799.6 | 1799.1 | 1798.5 | 1798.0 | 1797.5 | 1798.8 | 1800.1 | 1801.4 |
| 5°     | 1795.3 | 1796.7 | 1798.0 | 1799.3 | 1800.6 | 1802.0 | 1803.3 | 1804.6 | 1807.5 | 1810.4 | 1813.3 |
| 7.5°   | 1780.6 | 1784.1 | 1787.5 | 1790.9 | 1794.3 | 1797.8 | 1801.2 | 1804.6 | 1809.1 | 1813.5 | 1818.0 |
| 10°    | 1762.5 | 1767.5 | 1772.5 | 1777.5 | 1782.5 | 1787.5 | 1792.5 | 1797.5 | 1804.1 | 1810.7 | 1817.2 |
| 12.5°  | 1738.2 | 1745.3 | 1752.4 | 1759.6 | 1766.7 | 1773.8 | 1780.9 | 1788.0 | 1796.7 | 1805.4 | 1814.0 |
| 15°    | 1711.7 | 1720.9 | 1730.1 | 1739.3 | 1748.5 | 1757.7 | 1766.9 | 1776.1 | 1786.9 | 1797.7 | 1808.5 |
| 17.5°  | 1678.0 | 1689.3 | 1700.6 | 1712.0 | 1723.3 | 1734.6 | 1745.9 | 1757.2 | 1770.9 | 1784.6 | 1798.2 |
| 20°    | 1639.0 | 1652.2 | 1665.4 | 1678.5 | 1691.7 | 1704.9 | 1718.0 | 1731.2 | 1748.0 | 1764.9 | 1781.7 |
| 22.5°  | 1590.9 | 1607.2 | 1623.5 | 1639.9 | 1656.2 | 1672.5 | 1688.8 | 1705.1 | 1726.4 | 1747.7 | 1769.0 |
| 25°    | 1544.8 | 1563.0 | 1581.1 | 1599.3 | 1617.4 | 1635.6 | 1653.7 | 1671.9 | 1699.0 | 1726.1 | 1753.2 |
| 27.5°  | 1495.1 | 1515.7 | 1536.2 | 1556.7 | 1577.2 | 1597.8 | 1618.3 | 1638.8 | 1671.7 | 1704.6 | 1737.5 |
| 30°    | 1438.8 | 1462.0 | 1485.1 | 1508.3 | 1531.4 | 1554.6 | 1577.7 | 1600.9 | 1639.8 | 1678.8 | 1717.7 |
| 32.5°  | 1378.8 | 1405.1 | 1431.4 | 1457.8 | 1484.1 | 1510.4 | 1536.7 | 1563.0 | 1608.3 | 1653.5 | 1698.8 |
| 35°    | 1317.0 | 1346.7 | 1376.4 | 1406.2 | 1435.9 | 1465.6 | 1495.4 | 1525.1 | 1576.2 | 1627.2 | 1678.3 |
| 37.5°  | 1256.2 | 1289.9 | 1323.6 | 1357.2 | 1390.9 | 1424.6 | 1458.3 | 1492.0 | 1549.1 | 1606.2 | 1663.3 |
| 40°    | 1193.6 | 1231.5 | 1269.4 | 1307.2 | 1345.1 | 1383.0 | 1420.9 | 1458.8 | 1522.2 | 1585.6 | 1649.0 |
| 42.5°  | 1127.8 | 1170.7 | 1213.6 | 1256.4 | 1299.3 | 1342.2 | 1385.1 | 1428.0 | 1497.7 | 1567.5 | 1637.2 |
| 45°    | 1066.2 | 1113.9 | 1161.5 | 1209.1 | 1256.7 | 1304.4 | 1352.0 | 1399.6 | 1476.4 | 1553.3 | 1630.1 |
| 47.5°  | 1002.2 | 1054.6 | 1107.0 | 1159.3 | 1211.7 | 1264.1 | 1316.4 | 1368.8 | 1453.8 | 1538.8 | 1623.8 |
| 50°    | 941.2  | 998.6  | 1056.0 | 1113.3 | 1170.7 | 1228.1 | 1285.4 | 1342.8 | 1436.2 | 1529.6 | 1623.0 |
| 52.5°  | 882.0  | 944.1  | 1006.2 | 1068.3 | 1130.4 | 1192.5 | 1254.6 | 1316.7 | 1419.6 | 1522.5 | 1625.4 |
| 55°    | 825.2  | 892.0  | 958.8  | 1025.7 | 1092.5 | 1159.3 | 1226.2 | 1293.0 | 1406.4 | 1519.8 | 1633.2 |
| 57.5°  | 768.9  | 840.7  | 912.5  | 984.4  | 1056.2 | 1128.0 | 1199.9 | 1271.7 | 1396.2 | 1520.6 | 1645.1 |
| 60°    | 709.4  | 787.1  | 864.7  | 942.3  | 1019.9 | 1097.6 | 1175.2 | 1252.8 | 1389.4 | 1525.9 | 1662.5 |
| 62.5°  | 657.8  | 740.5  | 823.1  | 905.7  | 988.3  | 1071.0 | 1153.6 | 1236.2 | 1384.3 | 1532.5 | 1680.6 |
| 65°    | 607.6  | 694.7  | 781.8  | 868.9  | 956.0  | 1043.1 | 1130.2 | 1217.3 | 1376.5 | 1535.7 | 1694.9 |
| 67.5°  | 556.3  | 647.3  | 738.4  | 829.4  | 920.5  | 1011.5 | 1102.6 | 1193.6 | 1363.3 | 1533.0 | 1702.8 |
| 70°    | 507.6  | 601.5  | 695.5  | 789.4  | 883.4  | 977.3  | 1071.3 | 1165.2 | 1341.8 | 1518.3 | 1694.9 |
| 72.5°  | 457.3  | 553.3  | 649.4  | 745.4  | 841.5  | 937.5  | 1033.6 | 1129.6 | 1309.3 | 1489.0 | 1668.8 |
| 75°    | 409.7  | 506.8  | 603.9  | 701.0  | 798.1  | 895.2  | 992.3  | 1089.4 | 1267.5 | 1445.7 | 1623.8 |
| 77.5°  | 363.6  | 460.2  | 556.8  | 653.3  | 749.9  | 846.5  | 943.0  | 1039.6 | 1212.2 | 1384.8 | 1557.5 |
| 80°    | 315.5  | 410.5  | 505.5  | 600.4  | 695.4  | 790.4  | 885.4  | 980.4  | 1143.8 | 1307.2 | 1470.6 |
| 82.5°  | 271.8  | 363.9  | 456.0  | 548.1  | 640.2  | 732.3  | 824.4  | 916.5  | 1068.6 | 1220.7 | 1372.8 |
| 85°    | 229.5  | 318.1  | 406.8  | 495.5  | 584.2  | 672.8  | 761.5  | 850.2  | 989.7  | 1129.1 | 1268.6 |
| 87.5°  | 189.7  | 273.9  | 358.1  | 442.3  | 526.5  | 610.7  | 694.9  | 779.1  | 905.4  | 1031.7 | 1158.0 |
| 90°    | 157.9  | 236.8  | 315.8  | 394.7  | 473.7  | 552.6  | 631.6  | 710.5  | 825.0  | 939.4  | 1053.9 |
| 92.5°  | 146.3  | 219.5  | 292.6  | 365.8  | 438.9  | 512.1  | 585.2  | 658.4  | 762.3  | 866.3  | 970.2  |
| 95°    | 134.7  | 202.1  | 269.5  | 336.8  | 404.2  | 471.6  | 538.9  | 606.3  | 702.1  | 797.9  | 893.6  |
| 97.5°  | 122.6  | 183.9  | 245.2  | 306.6  | 367.9  | 429.2  | 490.5  | 551.8  | 641.3  | 730.7  | 820.2  |
| 100°   | 112.1  | 168.1  | 224.2  | 280.2  | 336.3  | 392.3  | 448.4  | 504.4  | 588.6  | 672.8  | 757.0  |
| 102.5° | 102.1  | 153.1  | 204.2  | 255.2  | 306.3  | 357.3  | 408.4  | 459.4  | 539.1  | 618.9  | 698.6  |
| 105°   | 93.2   | 139.7  | 186.3  | 232.9  | 279.5  | 326.0  | 372.6  | 419.2  | 495.0  | 570.8  | 646.5  |
| 107.5° | 84.7   | 127.1  | 169.5  | 211.8  | 254.2  | 296.6  | 338.9  | 381.3  | 454.7  | 528.1  | 601.5  |
| 110°   | 76.3   | 114.5  | 152.6  | 190.8  | 228.9  | 267.1  | 305.2  | 343.4  | 413.7  | 483.9  | 554.2  |



TEST NUMBER: P201397

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 275° | 277.5° | 280°  | 282.5° | 285°  | 287.5° | 290°  | 292.5° | 295°  | 297.5° | 300°  |
|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 112.5° | 69.5 | 104.2  | 138.9 | 173.7  | 208.4 | 243.1  | 277.9 | 312.6  | 379.2 | 445.8  | 512.3 |
| 115°   | 65.0 | 96.3   | 127.6 | 159.0  | 190.3 | 221.6  | 252.9 | 284.2  | 347.6 | 411.0  | 474.4 |
| 117.5° | 58.7 | 86.9   | 115.0 | 143.2  | 171.3 | 199.5  | 227.6 | 255.8  | 316.3 | 376.8  | 437.4 |
| 120°   | 53.4 | 79.0   | 104.5 | 130.0  | 155.5 | 181.1  | 206.6 | 232.1  | 288.4 | 344.7  | 401.0 |
| 122.5° | 47.6 | 70.3   | 92.9  | 115.5  | 138.1 | 160.8  | 183.4 | 206.0  | 257.8 | 309.7  | 361.5 |
| 125°   | 41.9 | 61.6   | 81.3  | 101.1  | 120.8 | 140.5  | 160.3 | 180.0  | 228.2 | 276.3  | 324.5 |
| 127.5° | 35.6 | 52.1   | 68.7  | 85.3   | 101.9 | 118.4  | 135.0 | 151.6  | 196.1 | 240.5  | 285.0 |
| 130°   | 29.2 | 42.6   | 56.0  | 69.5   | 82.9  | 96.3   | 109.7 | 123.1  | 163.1 | 203.1  | 243.1 |
| 132.5° | 24.0 | 34.8   | 45.6  | 56.3   | 67.1  | 77.9   | 88.7  | 99.5   | 134.8 | 170.0  | 205.3 |
| 135°   | 18.7 | 26.9   | 35.0  | 43.2   | 51.3  | 59.5   | 67.6  | 75.8   | 106.8 | 137.9  | 168.9 |
| 137.5° | 14.0 | 19.8   | 25.6  | 31.3   | 37.1  | 42.9   | 48.7  | 54.5   | 81.6  | 108.7  | 135.8 |
| 140°   | 10.3 | 14.2   | 18.2  | 22.1   | 26.1  | 30.0   | 34.0  | 37.9   | 61.1  | 84.2   | 107.4 |
| 142.5° | 7.7  | 10.3   | 12.9  | 15.6   | 18.2  | 20.8   | 23.5  | 26.1   | 45.6  | 65.0   | 84.5  |
| 145°   | 5.6  | 7.1    | 8.7   | 10.3   | 11.9  | 13.4   | 15.0  | 16.6   | 32.4  | 48.2   | 64.0  |
| 147.5° | 4.5  | 5.5    | 6.6   | 7.6    | 8.7   | 9.7    | 10.8  | 11.8   | 24.2  | 36.5   | 48.9  |
| 150°   | 4.0  | 4.8    | 5.6   | 6.3    | 7.1   | 7.9    | 8.7   | 9.5    | 18.4  | 27.4   | 36.3  |
| 152.5° | 3.4  | 4.0    | 4.5   | 5.0    | 5.5   | 6.1    | 6.6   | 7.1    | 13.4  | 19.7   | 26.0  |
| 155°   | 2.9  | 3.2    | 3.4   | 3.7    | 3.9   | 4.2    | 4.4   | 4.7    | 8.4   | 12.1   | 15.8  |
| 157.5° | 2.4  | 2.4    | 2.4   | 2.4    | 2.4   | 2.4    | 2.4   | 2.4    | 4.5   | 6.6    | 8.7   |
| 160°   | 2.4  | 2.4    | 2.4   | 2.4    | 2.4   | 2.4    | 2.4   | 2.4    | 3.2   | 4.0    | 4.8   |
| 162.5° | 2.4  | 2.4    | 2.4   | 2.4    | 2.4   | 2.4    | 2.4   | 2.4    | 2.4   | 2.4    | 2.4   |
| 165°   | 1.9  | 1.6    | 1.3   | 1.1    | 0.8   | 0.5    | 0.3   | 0.0    | 0.0   | 0.0    | 0.0   |
| 167.5° | 0.0  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 170°   | 0.0  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 172.5° | 0.0  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 175°   | 0.0  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 177.5° | 0.0  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 180°   | 0.0  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |



TEST NUMBER: P201397

CATALOG NUMBER: 8LBLEDD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 302.5° | 305°   | 307.5° | 310°   | 312.5° | 315°   | 317.5° | 320°   | 322.5° | 325°   | 327.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 |
| 2.5°   | 1802.7 | 1804.1 | 1805.4 | 1806.7 | 1808.0 | 1809.3 | 1809.8 | 1810.3 | 1810.9 | 1811.4 | 1811.9 |
| 5°     | 1816.2 | 1819.0 | 1821.9 | 1824.8 | 1827.7 | 1830.6 | 1832.2 | 1833.8 | 1835.3 | 1836.9 | 1838.5 |
| 7.5°   | 1822.5 | 1826.9 | 1831.4 | 1835.9 | 1840.3 | 1844.8 | 1848.0 | 1851.1 | 1854.3 | 1857.4 | 1860.6 |
| 10°    | 1823.8 | 1830.4 | 1837.0 | 1843.5 | 1850.1 | 1856.7 | 1861.7 | 1866.7 | 1871.7 | 1876.7 | 1881.7 |
| 12.5°  | 1822.7 | 1831.4 | 1840.1 | 1848.7 | 1857.4 | 1866.1 | 1872.9 | 1879.8 | 1886.6 | 1893.5 | 1900.3 |
| 15°    | 1819.3 | 1830.0 | 1840.8 | 1851.6 | 1862.4 | 1873.2 | 1882.2 | 1891.1 | 1900.1 | 1909.0 | 1918.0 |
| 17.5°  | 1811.9 | 1825.6 | 1839.3 | 1852.9 | 1866.6 | 1880.3 | 1892.4 | 1904.5 | 1916.6 | 1928.7 | 1940.9 |
| 20°    | 1798.5 | 1815.4 | 1832.2 | 1849.0 | 1865.9 | 1882.7 | 1899.8 | 1916.9 | 1934.0 | 1951.1 | 1968.3 |
| 22.5°  | 1790.3 | 1811.7 | 1833.0 | 1854.3 | 1875.6 | 1896.9 | 1917.4 | 1937.9 | 1958.5 | 1979.0 | 1999.5 |
| 25°    | 1780.3 | 1807.5 | 1834.6 | 1861.7 | 1888.8 | 1915.9 | 1939.3 | 1962.7 | 1986.1 | 2009.5 | 2033.0 |
| 27.5°  | 1770.4 | 1803.2 | 1836.1 | 1869.0 | 1901.9 | 1934.8 | 1961.1 | 1987.4 | 2013.7 | 2040.0 | 2066.4 |
| 30°    | 1756.7 | 1795.6 | 1834.6 | 1873.5 | 1912.5 | 1951.4 | 1981.1 | 2010.9 | 2040.6 | 2070.3 | 2100.1 |
| 32.5°  | 1744.0 | 1789.3 | 1834.5 | 1879.8 | 1925.0 | 1970.3 | 2003.7 | 2037.1 | 2070.6 | 2104.0 | 2137.4 |
| 35°    | 1729.3 | 1780.4 | 1831.4 | 1882.5 | 1933.5 | 1984.6 | 2023.3 | 2062.0 | 2100.6 | 2139.3 | 2178.0 |
| 37.5°  | 1720.4 | 1777.5 | 1834.6 | 1891.7 | 1948.8 | 2005.9 | 2049.8 | 2093.8 | 2137.7 | 2181.7 | 2225.6 |
| 40°    | 1712.4 | 1775.9 | 1839.3 | 1902.7 | 1966.1 | 2029.5 | 2080.0 | 2130.5 | 2181.1 | 2231.6 | 2282.1 |
| 42.5°  | 1706.9 | 1776.7 | 1846.4 | 1916.1 | 1985.9 | 2055.6 | 2114.3 | 2173.0 | 2231.6 | 2290.3 | 2349.0 |
| 45°    | 1706.9 | 1783.8 | 1860.6 | 1937.4 | 2014.3 | 2091.1 | 2158.5 | 2225.8 | 2293.2 | 2360.6 | 2427.9 |
| 47.5°  | 1708.8 | 1793.7 | 1878.7 | 1963.7 | 2048.7 | 2133.7 | 2210.5 | 2287.4 | 2364.2 | 2441.1 | 2517.9 |
| 50°    | 1716.4 | 1809.9 | 1903.3 | 1996.7 | 2090.1 | 2183.5 | 2272.7 | 2361.9 | 2451.1 | 2540.3 | 2629.5 |
| 52.5°  | 1728.3 | 1831.1 | 1934.0 | 2036.9 | 2139.8 | 2242.7 | 2342.2 | 2441.6 | 2541.1 | 2640.6 | 2740.0 |
| 55°    | 1746.6 | 1860.1 | 1973.5 | 2086.9 | 2200.3 | 2313.7 | 2425.0 | 2536.3 | 2647.6 | 2758.9 | 2870.3 |
| 57.5°  | 1769.6 | 1894.0 | 2018.5 | 2143.0 | 2267.4 | 2391.9 | 2514.3 | 2636.6 | 2759.0 | 2881.3 | 3003.7 |
| 60°    | 1799.1 | 1935.6 | 2072.2 | 2208.8 | 2345.3 | 2481.9 | 2615.3 | 2748.7 | 2882.1 | 3015.5 | 3148.9 |
| 62.5°  | 1828.8 | 1976.9 | 2125.1 | 2273.2 | 2421.4 | 2569.5 | 2709.5 | 2849.5 | 2989.5 | 3129.5 | 3269.4 |
| 65°    | 1854.1 | 2013.2 | 2172.4 | 2331.6 | 2490.8 | 2650.0 | 2796.0 | 2942.1 | 3088.1 | 3234.2 | 3380.2 |
| 67.5°  | 1872.5 | 2042.2 | 2211.9 | 2381.7 | 2551.4 | 2721.1 | 2869.0 | 3016.9 | 3164.7 | 3312.6 | 3460.5 |
| 70°    | 1871.4 | 2048.0 | 2224.5 | 2401.1 | 2577.6 | 2754.2 | 2901.8 | 3049.4 | 3197.1 | 3344.7 | 3492.3 |
| 72.5°  | 1848.5 | 2028.2 | 2207.9 | 2387.7 | 2567.4 | 2747.1 | 2891.3 | 3035.5 | 3179.7 | 3323.9 | 3468.1 |
| 75°    | 1801.9 | 1980.1 | 2158.2 | 2336.3 | 2514.5 | 2692.6 | 2831.0 | 2969.4 | 3107.8 | 3246.2 | 3384.7 |
| 77.5°  | 1730.1 | 1902.7 | 2075.3 | 2248.0 | 2420.6 | 2593.2 | 2723.2 | 2853.2 | 2983.2 | 3113.2 | 3243.1 |
| 80°    | 1634.0 | 1797.5 | 1960.9 | 2124.3 | 2287.7 | 2451.1 | 2570.8 | 2690.5 | 2810.3 | 2930.0 | 3049.7 |
| 82.5°  | 1524.9 | 1676.9 | 1829.0 | 1981.1 | 2133.2 | 2285.3 | 2394.0 | 2502.7 | 2611.3 | 2720.0 | 2828.7 |
| 85°    | 1408.0 | 1547.5 | 1686.9 | 1826.4 | 1965.8 | 2105.3 | 2203.7 | 2302.1 | 2400.5 | 2498.9 | 2597.4 |
| 87.5°  | 1284.3 | 1410.7 | 1537.0 | 1663.3 | 1789.6 | 1915.9 | 2003.8 | 2091.7 | 2179.6 | 2267.5 | 2355.3 |
| 90°    | 1168.3 | 1282.8 | 1397.2 | 1511.7 | 1626.1 | 1740.6 | 1820.1 | 1899.5 | 1979.0 | 2058.5 | 2137.9 |
| 92.5°  | 1074.1 | 1178.1 | 1282.0 | 1385.9 | 1489.9 | 1593.8 | 1667.2 | 1740.6 | 1814.0 | 1887.4 | 1960.9 |
| 95°    | 989.4  | 1085.2 | 1181.0 | 1276.7 | 1372.5 | 1468.3 | 1537.5 | 1606.7 | 1675.9 | 1745.1 | 1814.3 |
| 97.5°  | 909.7  | 999.1  | 1088.6 | 1178.1 | 1267.5 | 1357.0 | 1422.0 | 1487.0 | 1552.0 | 1617.0 | 1681.9 |
| 100°   | 841.2  | 925.5  | 1009.7 | 1093.9 | 1178.1 | 1262.3 | 1325.2 | 1388.1 | 1450.9 | 1513.8 | 1576.7 |
| 102.5° | 778.3  | 858.1  | 937.8  | 1017.5 | 1097.3 | 1177.0 | 1238.6 | 1300.2 | 1361.7 | 1423.3 | 1484.9 |
| 105°   | 722.3  | 798.1  | 873.9  | 949.6  | 1025.4 | 1101.2 | 1161.7 | 1222.2 | 1282.8 | 1343.3 | 1403.8 |
| 107.5° | 674.9  | 748.4  | 821.8  | 895.2  | 968.6  | 1042.0 | 1100.7 | 1159.4 | 1218.0 | 1276.7 | 1335.4 |
| 110°   | 624.4  | 694.7  | 764.9  | 835.2  | 905.4  | 975.7  | 1033.6 | 1091.5 | 1149.4 | 1207.3 | 1265.1 |



TEST NUMBER: P201397

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 302.5° | 305°  | 307.5° | 310°  | 312.5° | 315°  | 317.5° | 320°   | 322.5° | 325°   | 327.5° |
|--------|--------|-------|--------|-------|--------|-------|--------|--------|--------|--------|--------|
| 112.5° | 578.9  | 645.5 | 712.1  | 778.6 | 845.2  | 911.8 | 968.4  | 1024.9 | 1081.5 | 1138.1 | 1194.6 |
| 115°   | 537.8  | 601.3 | 664.7  | 728.1 | 791.5  | 854.9 | 908.8  | 962.8  | 1016.7 | 1070.7 | 1124.6 |
| 117.5° | 497.9  | 558.4 | 618.9  | 679.5 | 740.0  | 800.5 | 852.1  | 903.6  | 955.2  | 1006.8 | 1058.3 |
| 120°   | 457.3  | 513.7 | 570.0  | 626.3 | 682.6  | 738.9 | 789.2  | 839.4  | 889.7  | 939.9  | 990.2  |
| 122.5° | 413.4  | 465.2 | 517.1  | 568.9 | 620.8  | 672.6 | 722.1  | 771.5  | 821.0  | 870.5  | 919.9  |
| 125°   | 372.6  | 420.8 | 468.9  | 517.1 | 565.2  | 613.4 | 660.2  | 707.1  | 753.9  | 800.7  | 847.6  |
| 127.5° | 329.5  | 373.9 | 418.4  | 462.9 | 507.3  | 551.8 | 595.0  | 638.1  | 681.3  | 724.4  | 767.6  |
| 130°   | 283.1  | 323.1 | 363.1  | 403.1 | 443.1  | 483.1 | 522.8  | 562.6  | 602.3  | 642.0  | 681.8  |
| 132.5° | 240.5  | 275.8 | 311.0  | 346.3 | 381.5  | 416.8 | 454.4  | 492.1  | 529.7  | 567.3  | 605.0  |
| 135°   | 200.0  | 231.0 | 262.1  | 293.1 | 324.2  | 355.2 | 391.0  | 426.8  | 462.6  | 498.4  | 534.1  |
| 137.5° | 162.9  | 190.0 | 217.1  | 244.2 | 271.3  | 298.4 | 331.3  | 364.2  | 397.1  | 430.0  | 462.8  |
| 140°   | 130.5  | 153.7 | 176.8  | 200.0 | 223.1  | 246.3 | 274.2  | 302.1  | 330.0  | 357.9  | 385.7  |
| 142.5° | 104.0  | 123.4 | 142.9  | 162.4 | 181.8  | 201.3 | 225.0  | 248.7  | 272.3  | 296.0  | 319.7  |
| 145°   | 79.8   | 95.5  | 111.3  | 127.1 | 142.9  | 158.7 | 178.7  | 198.7  | 218.7  | 238.7  | 258.7  |
| 147.5° | 61.3   | 73.6  | 86.0   | 98.4  | 110.7  | 123.1 | 139.7  | 156.3  | 172.8  | 189.4  | 206.0  |
| 150°   | 45.3   | 54.2  | 63.2   | 72.1  | 81.1   | 90.0  | 103.7  | 117.4  | 131.0  | 144.7  | 158.4  |
| 152.5° | 32.3   | 38.7  | 45.0   | 51.3  | 57.6   | 63.9  | 74.4   | 85.0   | 95.5   | 106.0  | 116.6  |
| 155°   | 19.5   | 23.1  | 26.8   | 30.5  | 34.2   | 37.9  | 46.3   | 54.7   | 63.2   | 71.6   | 80.0   |
| 157.5° | 10.8   | 12.9  | 15.0   | 17.1  | 19.2   | 21.3  | 27.1   | 32.9   | 38.7   | 44.5   | 50.2   |
| 160°   | 5.6    | 6.3   | 7.1    | 7.9   | 8.7    | 9.5   | 12.9   | 16.3   | 19.8   | 23.2   | 26.6   |
| 162.5° | 2.4    | 2.4   | 2.4    | 2.4   | 2.4    | 2.4   | 4.0    | 5.6    | 7.1    | 8.7    | 10.3   |
| 165°   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.3    | 0.5    | 0.8    | 1.1    | 1.3    |
| 167.5° | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 170°   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 172.5° | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 175°   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 177.5° | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 180°   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



TEST NUMBER: P201397

CATALOG NUMBER: 8LBLELD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 332.5° | 335°   | 337.5° | 340°   | 342.5° | 345°   | 347.5° | 350°   | 352.5° | 355°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 | 1776.1 |
| 2.5°   | 1812.4 | 1813.0 | 1813.5 | 1814.0 | 1812.2 | 1810.3 | 1808.5 | 1806.7 | 1804.8 | 1803.0 | 1801.2 |
| 5°     | 1840.1 | 1841.6 | 1843.2 | 1844.8 | 1844.3 | 1843.8 | 1843.2 | 1842.7 | 1842.2 | 1841.7 | 1841.1 |
| 7.5°   | 1863.7 | 1866.9 | 1870.0 | 1873.2 | 1873.5 | 1873.7 | 1874.0 | 1874.3 | 1874.5 | 1874.8 | 1875.1 |
| 10°    | 1886.7 | 1891.7 | 1896.7 | 1901.7 | 1902.2 | 1902.7 | 1903.3 | 1903.8 | 1904.3 | 1904.8 | 1905.4 |
| 12.5°  | 1907.2 | 1914.0 | 1920.9 | 1927.7 | 1929.0 | 1930.3 | 1931.7 | 1933.0 | 1934.3 | 1935.6 | 1937.0 |
| 15°    | 1926.9 | 1935.9 | 1944.8 | 1953.8 | 1956.4 | 1959.0 | 1961.7 | 1964.3 | 1966.9 | 1969.5 | 1972.2 |
| 17.5°  | 1953.0 | 1965.1 | 1977.2 | 1989.3 | 1993.8 | 1998.2 | 2002.7 | 2007.2 | 2011.6 | 2016.1 | 2020.6 |
| 20°    | 1985.4 | 2002.5 | 2019.6 | 2036.7 | 2042.2 | 2047.7 | 2053.3 | 2058.8 | 2064.3 | 2069.8 | 2075.4 |
| 22.5°  | 2020.0 | 2040.6 | 2061.1 | 2081.6 | 2087.9 | 2094.2 | 2100.6 | 2106.9 | 2113.2 | 2119.5 | 2125.9 |
| 25°    | 2056.4 | 2079.8 | 2103.2 | 2126.6 | 2134.0 | 2141.4 | 2148.7 | 2156.1 | 2163.5 | 2170.9 | 2178.2 |
| 27.5°  | 2092.7 | 2119.0 | 2145.3 | 2171.6 | 2180.8 | 2190.0 | 2199.2 | 2208.4 | 2217.7 | 2226.9 | 2236.1 |
| 30°    | 2129.8 | 2159.5 | 2189.3 | 2219.0 | 2230.1 | 2241.1 | 2252.2 | 2263.2 | 2274.3 | 2285.3 | 2296.4 |
| 32.5°  | 2170.8 | 2204.3 | 2237.7 | 2271.1 | 2284.0 | 2296.9 | 2309.8 | 2322.7 | 2335.5 | 2348.4 | 2361.3 |
| 35°    | 2216.7 | 2255.3 | 2294.0 | 2332.7 | 2348.2 | 2363.7 | 2379.3 | 2394.8 | 2410.3 | 2425.8 | 2441.4 |
| 37.5°  | 2269.6 | 2313.5 | 2357.5 | 2401.4 | 2420.6 | 2439.8 | 2459.0 | 2478.2 | 2497.4 | 2516.6 | 2535.8 |
| 40°    | 2332.6 | 2383.2 | 2433.7 | 2484.2 | 2507.1 | 2530.0 | 2552.9 | 2575.8 | 2598.7 | 2621.6 | 2644.5 |
| 42.5°  | 2407.7 | 2466.3 | 2525.0 | 2583.7 | 2610.0 | 2636.3 | 2662.6 | 2688.9 | 2715.3 | 2741.6 | 2767.9 |
| 45°    | 2495.3 | 2562.7 | 2630.0 | 2697.4 | 2727.7 | 2757.9 | 2788.2 | 2818.4 | 2848.7 | 2878.9 | 2909.2 |
| 47.5°  | 2594.8 | 2671.6 | 2748.5 | 2825.3 | 2861.1 | 2896.9 | 2932.6 | 2968.4 | 3004.2 | 3040.0 | 3075.7 |
| 50°    | 2718.7 | 2807.9 | 2897.1 | 2986.3 | 3025.5 | 3064.7 | 3103.9 | 3143.1 | 3182.4 | 3221.6 | 3260.8 |
| 52.5°  | 2839.5 | 2939.0 | 3038.4 | 3137.9 | 3182.6 | 3227.4 | 3272.1 | 3316.8 | 3361.6 | 3406.3 | 3451.0 |
| 55°    | 2981.6 | 3092.9 | 3204.2 | 3315.5 | 3363.7 | 3411.8 | 3460.0 | 3508.1 | 3556.3 | 3604.4 | 3652.6 |
| 57.5°  | 3126.0 | 3248.4 | 3370.7 | 3493.1 | 3544.4 | 3595.7 | 3647.0 | 3698.3 | 3749.7 | 3801.0 | 3852.3 |
| 60°    | 3282.3 | 3415.7 | 3549.1 | 3682.5 | 3733.6 | 3784.6 | 3835.7 | 3886.7 | 3937.8 | 3988.8 | 4039.9 |
| 62.5°  | 3409.4 | 3549.4 | 3689.4 | 3829.4 | 3881.8 | 3934.1 | 3986.5 | 4038.8 | 4091.2 | 4143.5 | 4195.9 |
| 65°    | 3526.3 | 3672.3 | 3818.4 | 3964.4 | 4014.7 | 4064.9 | 4115.2 | 4165.4 | 4215.7 | 4265.9 | 4316.2 |
| 67.5°  | 3608.4 | 3756.2 | 3904.1 | 4052.0 | 4100.4 | 4148.8 | 4197.2 | 4245.6 | 4294.1 | 4342.5 | 4390.9 |
| 70°    | 3639.9 | 3787.6 | 3935.2 | 4082.8 | 4128.1 | 4173.3 | 4218.6 | 4263.8 | 4309.1 | 4354.3 | 4399.6 |
| 72.5°  | 3612.3 | 3756.5 | 3900.7 | 4044.9 | 4088.3 | 4131.7 | 4175.1 | 4218.5 | 4262.0 | 4305.4 | 4348.8 |
| 75°    | 3523.1 | 3661.5 | 3799.9 | 3938.3 | 3979.4 | 4020.4 | 4061.5 | 4102.5 | 4143.6 | 4184.6 | 4225.7 |
| 77.5°  | 3373.1 | 3503.1 | 3633.1 | 3763.1 | 3802.0 | 3841.0 | 3879.9 | 3918.9 | 3957.8 | 3996.8 | 4035.7 |
| 80°    | 3169.4 | 3289.2 | 3408.9 | 3528.6 | 3566.0 | 3603.3 | 3640.7 | 3678.1 | 3715.4 | 3752.8 | 3790.2 |
| 82.5°  | 2937.4 | 3046.0 | 3154.7 | 3263.4 | 3298.9 | 3334.4 | 3370.0 | 3405.5 | 3441.0 | 3476.5 | 3512.1 |
| 85°    | 2695.8 | 2794.2 | 2892.6 | 2991.0 | 3023.4 | 3055.7 | 3088.1 | 3120.5 | 3152.8 | 3185.2 | 3217.6 |
| 87.5°  | 2443.2 | 2531.1 | 2619.0 | 2706.9 | 2738.5 | 2770.0 | 2801.6 | 2833.2 | 2864.7 | 2896.3 | 2927.9 |
| 90°    | 2217.4 | 2296.9 | 2376.3 | 2455.8 | 2485.8 | 2515.8 | 2545.8 | 2575.8 | 2605.8 | 2635.8 | 2665.8 |
| 92.5°  | 2034.3 | 2107.7 | 2181.1 | 2254.5 | 2282.1 | 2309.8 | 2337.4 | 2365.0 | 2392.7 | 2420.3 | 2447.9 |
| 95°    | 1883.5 | 1952.7 | 2021.9 | 2091.1 | 2116.4 | 2141.6 | 2166.9 | 2192.2 | 2217.4 | 2242.7 | 2268.0 |
| 97.5°  | 1746.9 | 1811.9 | 1876.9 | 1941.9 | 1966.6 | 1991.4 | 2016.1 | 2040.8 | 2065.6 | 2090.3 | 2115.0 |
| 100°   | 1639.6 | 1702.4 | 1765.3 | 1828.2 | 1852.2 | 1876.1 | 1900.1 | 1924.0 | 1948.0 | 1971.9 | 1995.9 |
| 102.5° | 1546.5 | 1608.0 | 1669.6 | 1731.2 | 1754.6 | 1778.0 | 1801.4 | 1824.8 | 1848.3 | 1871.7 | 1895.1 |
| 105°   | 1464.3 | 1524.9 | 1585.4 | 1645.9 | 1669.3 | 1692.7 | 1716.2 | 1739.6 | 1763.0 | 1786.4 | 1809.9 |
| 107.5° | 1394.1 | 1452.7 | 1511.4 | 1570.1 | 1593.3 | 1616.4 | 1639.6 | 1662.7 | 1685.9 | 1709.0 | 1732.2 |
| 110°   | 1323.0 | 1380.9 | 1438.8 | 1496.7 | 1519.3 | 1542.0 | 1564.6 | 1587.2 | 1609.9 | 1632.5 | 1655.1 |



TEST NUMBER: P201397

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 332.5° | 335°   | 337.5° | 340°   | 342.5° | 345°   | 347.5° | 350°   | 352.5° | 355°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1251.2 | 1307.8 | 1364.3 | 1420.9 | 1443.5 | 1466.2 | 1488.8 | 1511.4 | 1534.1 | 1556.7 | 1579.3 |
| 115°   | 1178.6 | 1232.5 | 1286.5 | 1340.4 | 1362.8 | 1385.1 | 1407.5 | 1429.9 | 1452.2 | 1474.6 | 1497.0 |
| 117.5° | 1109.9 | 1161.5 | 1213.0 | 1264.6 | 1285.7 | 1306.7 | 1327.8 | 1348.8 | 1369.9 | 1390.9 | 1412.0 |
| 120°   | 1040.4 | 1090.7 | 1140.9 | 1191.2 | 1211.2 | 1231.2 | 1251.2 | 1271.2 | 1291.2 | 1311.2 | 1331.2 |
| 122.5° | 969.4  | 1018.9 | 1068.3 | 1117.8 | 1137.3 | 1156.7 | 1176.2 | 1195.7 | 1215.1 | 1234.6 | 1254.1 |
| 125°   | 894.4  | 941.2  | 988.1  | 1034.9 | 1054.6 | 1074.4 | 1094.1 | 1113.8 | 1133.6 | 1153.3 | 1173.0 |
| 127.5° | 810.7  | 853.9  | 897.0  | 940.2  | 959.7  | 979.1  | 998.6  | 1018.1 | 1037.5 | 1057.0 | 1076.5 |
| 130°   | 721.5  | 761.2  | 801.0  | 840.7  | 858.3  | 876.0  | 893.6  | 911.2  | 928.9  | 946.5  | 964.1  |
| 132.5° | 642.6  | 680.2  | 717.9  | 755.5  | 770.2  | 785.0  | 799.7  | 814.4  | 829.2  | 843.9  | 858.6  |
| 135°   | 569.9  | 605.7  | 641.5  | 677.3  | 689.9  | 702.6  | 715.2  | 727.8  | 740.5  | 753.1  | 765.7  |
| 137.5° | 495.7  | 528.6  | 561.5  | 594.4  | 606.8  | 619.1  | 631.5  | 643.9  | 656.2  | 668.6  | 681.0  |
| 140°   | 413.6  | 441.5  | 469.4  | 497.3  | 511.0  | 524.7  | 538.4  | 552.1  | 565.7  | 579.4  | 593.1  |
| 142.5° | 343.4  | 367.0  | 390.7  | 414.4  | 427.3  | 440.2  | 453.1  | 466.0  | 478.9  | 491.8  | 504.7  |
| 145°   | 278.7  | 298.7  | 318.7  | 338.7  | 351.6  | 364.5  | 377.4  | 390.3  | 403.1  | 416.0  | 428.9  |
| 147.5° | 222.6  | 239.1  | 255.7  | 272.3  | 284.7  | 297.0  | 309.4  | 321.8  | 334.1  | 346.5  | 358.9  |
| 150°   | 172.1  | 185.7  | 199.4  | 213.1  | 224.7  | 236.3  | 247.8  | 259.4  | 271.0  | 282.6  | 294.1  |
| 152.5° | 127.1  | 137.6  | 148.2  | 158.7  | 169.7  | 180.8  | 191.8  | 202.9  | 213.9  | 225.0  | 236.0  |
| 155°   | 88.4   | 96.9   | 105.3  | 113.7  | 123.4  | 133.2  | 142.9  | 152.6  | 162.4  | 172.1  | 181.8  |
| 157.5° | 56.0   | 61.8   | 67.6   | 73.4   | 81.6   | 89.7   | 97.9   | 106.0  | 114.2  | 122.3  | 130.5  |
| 160°   | 30.0   | 33.5   | 36.9   | 40.3   | 46.9   | 53.5   | 60.0   | 66.6   | 73.2   | 79.8   | 86.3   |
| 162.5° | 11.9   | 13.4   | 15.0   | 16.6   | 20.8   | 25.0   | 29.2   | 33.4   | 37.7   | 41.9   | 46.1   |
| 165°   | 1.6    | 1.9    | 2.1    | 2.4    | 4.8    | 7.1    | 9.5    | 11.9   | 14.2   | 16.6   | 19.0   |
| 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: P201397

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 357.5° | 360°   |
|--------|--------|--------|
| 0°     | 1776.1 | 1776.1 |
| 2.5°   | 1799.3 | 1797.5 |
| 5°     | 1840.6 | 1840.1 |
| 7.5°   | 1875.3 | 1875.6 |
| 10°    | 1905.9 | 1906.4 |
| 12.5°  | 1938.3 | 1939.6 |
| 15°    | 1974.8 | 1977.4 |
| 17.5°  | 2025.0 | 2029.5 |
| 20°    | 2080.9 | 2086.4 |
| 22.5°  | 2132.2 | 2138.5 |
| 25°    | 2185.6 | 2193.0 |
| 27.5°  | 2245.3 | 2254.5 |
| 30°    | 2307.4 | 2318.5 |
| 32.5°  | 2374.2 | 2387.1 |
| 35°    | 2456.9 | 2472.4 |
| 37.5°  | 2555.0 | 2574.2 |
| 40°    | 2667.4 | 2690.3 |
| 42.5°  | 2794.2 | 2820.5 |
| 45°    | 2939.4 | 2969.7 |
| 47.5°  | 3111.5 | 3147.3 |
| 50°    | 3300.0 | 3339.2 |
| 52.5°  | 3495.8 | 3540.5 |
| 55°    | 3700.7 | 3748.9 |
| 57.5°  | 3903.6 | 3954.9 |
| 60°    | 4090.9 | 4142.0 |
| 62.5°  | 4248.2 | 4300.6 |
| 65°    | 4366.4 | 4416.7 |
| 67.5°  | 4439.3 | 4487.7 |
| 70°    | 4444.8 | 4490.1 |
| 72.5°  | 4392.2 | 4435.6 |
| 75°    | 4266.7 | 4307.8 |
| 77.5°  | 4074.7 | 4113.6 |
| 80°    | 3827.5 | 3864.9 |
| 82.5°  | 3547.6 | 3583.1 |
| 85°    | 3249.9 | 3282.3 |
| 87.5°  | 2959.4 | 2991.0 |
| 90°    | 2695.8 | 2725.8 |
| 92.5°  | 2475.6 | 2503.2 |
| 95°    | 2293.2 | 2318.5 |
| 97.5°  | 2139.8 | 2164.5 |
| 100°   | 2019.8 | 2043.8 |
| 102.5° | 1918.5 | 1941.9 |
| 105°   | 1833.3 | 1856.7 |
| 107.5° | 1755.3 | 1778.5 |
| 110°   | 1677.8 | 1700.4 |





TEST NUMBER: P201397

CATALOG NUMBER: 8LBLED-LD4-14-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

|        | 357.5° | 360°   |
|--------|--------|--------|
| 112.5° | 1602.0 | 1624.6 |
| 115°   | 1519.3 | 1541.7 |
| 117.5° | 1433.0 | 1454.1 |
| 120°   | 1351.2 | 1371.2 |
| 122.5° | 1273.5 | 1293.0 |
| 125°   | 1192.8 | 1212.5 |
| 127.5° | 1095.9 | 1115.4 |
| 130°   | 981.8  | 999.4  |
| 132.5° | 873.4  | 888.1  |
| 135°   | 778.4  | 791.0  |
| 137.5° | 693.3  | 705.7  |
| 140°   | 606.8  | 620.5  |
| 142.5° | 517.6  | 530.5  |
| 145°   | 441.8  | 454.7  |
| 147.5° | 371.2  | 383.6  |
| 150°   | 305.7  | 317.3  |
| 152.5° | 247.1  | 258.1  |
| 155°   | 191.6  | 201.3  |
| 157.5° | 138.6  | 146.8  |
| 160°   | 92.9   | 99.5   |
| 162.5° | 50.3   | 54.5   |
| 165°   | 21.3   | 23.7   |
| 167.5° | 0.0    | 0.0    |
| 170°   | 0.0    | 0.0    |
| 172.5° | 0.0    | 0.0    |
| 175°   | 0.0    | 0.0    |
| 177.5° | 0.0    | 0.0    |
| 180°   | 0.0    | 0.0    |

(END OF REPORT)