

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: FAIL-SAFE

Report Number: P861209

Luminaire Tested: **8APVTLD-SL3C3 LO POWER 4000K 120V**

Issue Date: 1/11/2023

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P861209  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( NTCLR22090026)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 8APVTLD-SL3C3 LO POWER 4000K 120V  
Description: LOW POWER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No. Condition Description

**Summary**

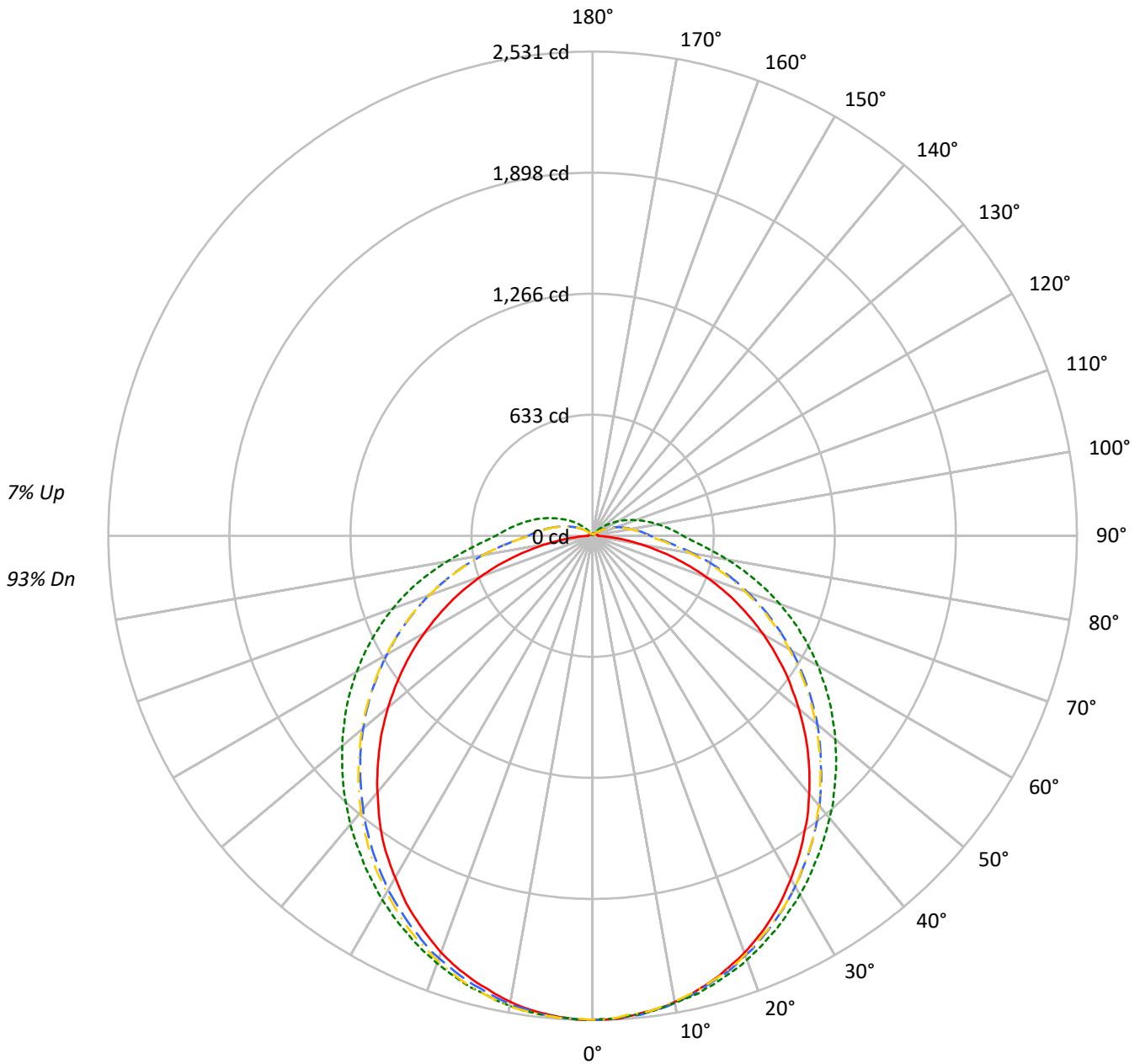
Lumens per Lamp: N/A  
Luminaire Lumens: 8590.9 lumens  
Efficiency: N/A  
Efficacy: 145.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 59  
Input Voltage (V): 120  
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: P861209

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 4000K 120V

### Luminous Intensity Polar Plot





TEST NUMBER: P861209

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 4000K 120V

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 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 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |
| 0   | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 95 | 95 | 95 | 95 | 95 | 95 | 93 |
| 1   | 105 | 100 | 95  | 91  | 102 | 97  | 92  | 88  | 91  | 88  | 84  | 86  | 83  | 80  | 81 | 79 | 77 | 77 | 77 | 77 | 74 |
| 2   | 95  | 86  | 79  | 73  | 92  | 84  | 77  | 71  | 79  | 73  | 68  | 74  | 70  | 66  | 70 | 66 | 63 | 63 | 63 | 63 | 60 |
| 3   | 86  | 75  | 67  | 60  | 83  | 73  | 65  | 59  | 69  | 62  | 57  | 65  | 59  | 55  | 62 | 57 | 53 | 53 | 53 | 53 | 50 |
| 4   | 79  | 66  | 57  | 50  | 76  | 65  | 56  | 49  | 61  | 54  | 48  | 58  | 52  | 46  | 55 | 49 | 45 | 45 | 45 | 45 | 43 |
| 5   | 72  | 59  | 50  | 43  | 70  | 58  | 49  | 42  | 55  | 47  | 41  | 52  | 45  | 40  | 49 | 43 | 39 | 39 | 39 | 39 | 37 |
| 6   | 67  | 53  | 44  | 37  | 64  | 52  | 43  | 37  | 49  | 42  | 36  | 47  | 40  | 35  | 44 | 39 | 34 | 34 | 34 | 34 | 32 |
| 7   | 62  | 48  | 39  | 33  | 60  | 47  | 38  | 32  | 45  | 37  | 32  | 43  | 36  | 31  | 41 | 35 | 30 | 30 | 30 | 30 | 28 |
| 8   | 58  | 44  | 35  | 29  | 56  | 43  | 35  | 29  | 41  | 33  | 28  | 39  | 32  | 28  | 37 | 31 | 27 | 27 | 27 | 27 | 25 |
| 9   | 54  | 40  | 32  | 26  | 52  | 39  | 31  | 26  | 38  | 30  | 25  | 36  | 29  | 25  | 34 | 29 | 24 | 24 | 24 | 24 | 22 |
| 10  | 50  | 37  | 29  | 24  | 49  | 36  | 29  | 23  | 35  | 28  | 23  | 33  | 27  | 22  | 32 | 26 | 22 | 22 | 22 | 22 | 20 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 10212 | 10212 | 10212 | 10212 |
| 5°  | 10180 | 9968  | 10179 | 9997  |
| 10° | 10122 | 9732  | 10123 | 9797  |
| 15° | 10038 | 9517  | 10024 | 9580  |
| 20° | 9924  | 9289  | 9918  | 9363  |
| 25° | 9781  | 9060  | 9753  | 9141  |
| 30° | 9598  | 8823  | 9561  | 8955  |
| 35° | 9398  | 8596  | 9387  | 8751  |
| 40° | 9200  | 8390  | 9142  | 8584  |
| 45° | 8983  | 8190  | 8905  | 8412  |
| 50° | 8730  | 8014  | 8656  | 8262  |
| 55° | 8471  | 7835  | 8372  | 8145  |
| 60° | 8165  | 7661  | 8043  | 8026  |
| 65° | 7793  | 7458  | 7655  | 7900  |
| 70° | 7267  | 7269  | 7147  | 7770  |
| 75° | 6580  | 7067  | 6373  | 7612  |
| 80° | 5588  | 6847  | 5312  | 7416  |
| 85° | 4317  | 6863  | 3882  | 7427  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 239.2  | 2.8       |
| 10°-20°   | 683.9  | 8.0       |
| 20°-30°   | 1034.5 | 12.0      |
| 30°-40°   | 1250.2 | 14.6      |
| 40°-50°   | 1315.9 | 15.3      |
| 50°-60°   | 1236.5 | 14.4      |
| 60°-70°   | 1031.0 | 12.0      |
| 70°-80°   | 735.5  | 8.6       |
| 80°-90°   | 430.7  | 5.0       |
| 90°-100°  | 268.1  | 3.1       |
| 100°-110° | 176.1  | 2.0       |
| 110°-120° | 103.4  | 1.2       |
| 120°-130° | 52.6   | 0.6       |
| 130°-140° | 20.2   | 0.2       |
| 140°-150° | 6.4    | 0.1       |
| 150°-160° | 3.6    | 0.0       |
| 160°-170° | 2.3    | 0.0       |
| 170°-180° | 0.8    | 0.0       |
| 0°-30°    | 1957.6 | 22.8      |
| 0°-40°    | 3207.8 | 37.3      |
| 0°-60°    | 5760.2 | 67.1      |
| 0°-90°    | 7957.4 | 92.6      |
| 90°-120°  | 547.6  | 6.4       |
| 90°-150°  | 626.7  | 7.3       |
| 90°-180°  | 633.0  | 7.4       |
| 0°-180°   | 8590.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 2530 | 2530 | 2530 | 2530 | 2530 |      |
| 5°   | 2515 | 2514 | 2514 | 2521 | 2515 | 239  |
| 15°  | 2409 | 2430 | 2406 | 2446 | 2409 | 679  |
| 25°  | 2207 | 2271 | 2200 | 2292 | 2207 | 1016 |
| 35°  | 1921 | 2050 | 1919 | 2087 | 1921 | 1203 |
| 45°  | 1590 | 1793 | 1576 | 1842 | 1590 | 1225 |
| 55°  | 1222 | 1511 | 1207 | 1571 | 1222 | 1091 |
| 65°  | 834  | 1200 | 819  | 1271 | 834  | 824  |
| 75°  | 438  | 876  | 424  | 944  | 438  | 464  |
| 85°  | 104  | 572  | 94   | 619  | 104  | 116  |
| 90°  | 31   | 474  | 24   | 507  | 31   | 19   |
| 95°  | 27   | 407  | 22   | 438  | 27   | 22   |
| 105° | 22   | 292  | 18   | 323  | 22   | 24   |
| 115° | 19   | 194  | 16   | 216  | 19   | 18   |
| 125° | 14   | 112  | 12   | 129  | 14   | 13   |
| 135° | 11   | 50   | 8    | 61   | 11   | 8    |
| 145° | 8    | 8    | 8    | 14   | 8    | 5    |
| 155° | 7    | 6    | 6    | 10   | 7    | 3    |
| 165° | 7    | 6    | 9    | 8    | 7    | 2    |
| 175° | 9    | 7    | 11   | 7    | 9    | 1    |
| 180° | 9    | 9    | 9    | 9    | 9    |      |



TEST NUMBER: P861209

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 4000K 120V

**CANDELA DISTRIBUTION (FULL):**

|     | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°  | 2530.0 | 2530.0 | 2530.0 | 2530.0 | 2530.0 | 2530.0 | 2530.0 | 2530.0 | 2530.0 | 2530.0 | 2530.0 |
| 1°  | 2530.2 | 2530.4 | 2531.2 | 2528.2 | 2527.4 | 2531.5 | 2530.2 | 2528.2 | 2530.4 | 2527.2 | 2529.2 |
| 2°  | 2530.2 | 2530.2 | 2530.6 | 2525.2 | 2527.4 | 2525.6 | 2529.0 | 2527.0 | 2529.6 | 2527.2 | 2527.8 |
| 3°  | 2528.8 | 2529.4 | 2524.5 | 2523.5 | 2524.1 | 2524.3 | 2521.3 | 2523.1 | 2524.7 | 2526.4 | 2525.0 |
| 4°  | 2521.3 | 2524.9 | 2519.3 | 2523.3 | 2518.2 | 2520.3 | 2512.2 | 2520.7 | 2521.1 | 2523.3 | 2523.1 |
| 5°  | 2514.8 | 2520.9 | 2518.0 | 2518.4 | 2513.8 | 2512.6 | 2508.9 | 2511.1 | 2514.4 | 2517.0 | 2518.5 |
| 6°  | 2506.1 | 2512.6 | 2514.8 | 2513.8 | 2509.5 | 2510.7 | 2506.9 | 2504.8 | 2509.5 | 2512.4 | 2515.8 |
| 7°  | 2501.4 | 2506.3 | 2504.4 | 2509.1 | 2506.7 | 2501.2 | 2501.8 | 2498.5 | 2502.6 | 2507.1 | 2507.1 |
| 8°  | 2493.7 | 2497.7 | 2499.1 | 2497.9 | 2497.3 | 2492.4 | 2492.2 | 2489.4 | 2494.5 | 2495.7 | 2498.7 |
| 9°  | 2487.2 | 2488.4 | 2490.4 | 2495.7 | 2487.2 | 2486.8 | 2480.9 | 2480.4 | 2485.5 | 2489.4 | 2493.5 |
| 10° | 2474.1 | 2479.4 | 2479.2 | 2481.9 | 2479.0 | 2474.6 | 2471.7 | 2471.5 | 2474.2 | 2480.0 | 2483.1 |
| 11° | 2468.5 | 2469.5 | 2467.4 | 2472.3 | 2470.7 | 2467.0 | 2460.1 | 2459.5 | 2461.8 | 2468.9 | 2475.2 |
| 12° | 2453.8 | 2457.3 | 2457.1 | 2462.2 | 2463.0 | 2458.7 | 2449.6 | 2446.9 | 2448.7 | 2457.5 | 2463.0 |
| 13° | 2437.6 | 2444.7 | 2446.3 | 2451.0 | 2455.9 | 2449.2 | 2438.4 | 2435.9 | 2432.1 | 2445.9 | 2450.0 |
| 14° | 2424.4 | 2434.1 | 2428.4 | 2439.0 | 2440.6 | 2433.5 | 2423.3 | 2421.3 | 2420.7 | 2430.1 | 2437.2 |
| 15° | 2408.9 | 2417.3 | 2415.2 | 2425.0 | 2429.9 | 2423.3 | 2410.8 | 2405.3 | 2405.5 | 2414.4 | 2426.2 |
| 16° | 2394.1 | 2397.7 | 2400.8 | 2410.1 | 2415.8 | 2410.3 | 2396.9 | 2385.4 | 2389.2 | 2400.0 | 2412.2 |
| 17° | 2374.6 | 2378.4 | 2388.8 | 2400.4 | 2402.2 | 2396.7 | 2381.9 | 2368.7 | 2374.0 | 2384.9 | 2397.5 |
| 18° | 2356.3 | 2369.5 | 2372.4 | 2380.5 | 2389.2 | 2380.7 | 2366.0 | 2352.6 | 2355.9 | 2366.0 | 2381.1 |
| 19° | 2339.8 | 2344.1 | 2353.9 | 2367.1 | 2376.0 | 2363.8 | 2350.2 | 2336.2 | 2337.8 | 2347.8 | 2365.4 |
| 20° | 2319.1 | 2326.8 | 2333.5 | 2352.6 | 2359.3 | 2351.4 | 2330.3 | 2313.2 | 2317.7 | 2327.4 | 2349.6 |
| 21° | 2298.8 | 2304.3 | 2318.9 | 2337.4 | 2340.9 | 2332.9 | 2314.4 | 2294.3 | 2294.1 | 2307.3 | 2333.7 |
| 22° | 2276.6 | 2283.1 | 2297.4 | 2315.9 | 2324.8 | 2313.0 | 2292.5 | 2273.0 | 2271.4 | 2285.0 | 2313.6 |
| 23° | 2254.9 | 2265.1 | 2276.8 | 2298.2 | 2305.3 | 2294.9 | 2270.8 | 2252.3 | 2248.4 | 2264.7 | 2292.1 |
| 24° | 2231.7 | 2242.9 | 2257.1 | 2280.3 | 2286.0 | 2275.4 | 2254.3 | 2229.3 | 2224.4 | 2242.9 | 2269.5 |
| 25° | 2206.7 | 2217.9 | 2234.0 | 2259.4 | 2271.4 | 2255.5 | 2230.9 | 2205.3 | 2200.4 | 2221.2 | 2250.2 |
| 26° | 2182.8 | 2193.7 | 2213.0 | 2240.3 | 2249.0 | 2236.4 | 2210.4 | 2181.3 | 2176.3 | 2196.6 | 2228.1 |
| 27° | 2156.5 | 2171.0 | 2190.7 | 2221.4 | 2228.9 | 2217.1 | 2188.7 | 2155.7 | 2150.9 | 2168.9 | 2204.5 |
| 28° | 2129.5 | 2144.6 | 2166.5 | 2197.8 | 2205.7 | 2193.7 | 2164.9 | 2129.3 | 2121.6 | 2144.6 | 2182.6 |
| 29° | 2099.5 | 2111.2 | 2142.5 | 2176.9 | 2187.8 | 2171.2 | 2139.5 | 2098.6 | 2091.9 | 2119.0 | 2160.2 |
| 30° | 2071.6 | 2089.1 | 2118.1 | 2152.7 | 2166.1 | 2149.4 | 2115.9 | 2072.8 | 2063.7 | 2092.5 | 2136.6 |
| 31° | 2042.6 | 2063.1 | 2093.6 | 2128.9 | 2144.4 | 2125.5 | 2090.9 | 2047.6 | 2036.5 | 2061.5 | 2109.8 |
| 32° | 2014.3 | 2031.0 | 2063.7 | 2104.9 | 2121.8 | 2103.7 | 2061.2 | 2018.6 | 2007.0 | 2034.2 | 2084.0 |
| 33° | 1984.8 | 2004.4 | 2038.9 | 2081.2 | 2097.8 | 2078.1 | 2037.3 | 1991.1 | 1979.2 | 2005.6 | 2058.0 |
| 34° | 1954.2 | 1973.9 | 2013.5 | 2057.4 | 2072.0 | 2054.7 | 2011.1 | 1961.9 | 1949.3 | 1976.7 | 2032.0 |
| 35° | 1921.2 | 1944.5 | 1986.1 | 2034.0 | 2049.9 | 2030.8 | 1984.4 | 1927.8 | 1918.8 | 1949.4 | 2006.6 |
| 36° | 1889.9 | 1915.8 | 1957.6 | 2009.8 | 2026.9 | 2002.3 | 1957.9 | 1898.5 | 1885.4 | 1919.8 | 1979.2 |
| 37° | 1860.6 | 1882.1 | 1930.4 | 1984.2 | 2001.1 | 1977.7 | 1928.0 | 1867.7 | 1852.3 | 1889.8 | 1950.6 |
| 38° | 1828.8 | 1849.4 | 1902.6 | 1954.3 | 1976.3 | 1951.0 | 1898.6 | 1835.0 | 1817.5 | 1856.6 | 1925.4 |
| 39° | 1794.7 | 1819.2 | 1871.9 | 1928.6 | 1951.4 | 1926.8 | 1867.1 | 1802.1 | 1781.4 | 1826.5 | 1896.9 |
| 40° | 1761.2 | 1786.8 | 1844.5 | 1904.1 | 1926.2 | 1899.2 | 1840.9 | 1770.3 | 1750.1 | 1792.6 | 1866.2 |
| 41° | 1727.1 | 1753.5 | 1812.6 | 1878.4 | 1902.4 | 1873.6 | 1807.7 | 1741.5 | 1717.0 | 1763.9 | 1836.5 |
| 42° | 1693.4 | 1722.9 | 1782.8 | 1852.9 | 1877.5 | 1849.0 | 1775.9 | 1702.8 | 1681.2 | 1729.7 | 1807.1 |



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**CANDELA DISTRIBUTION (continued):**

|     | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 45° | 1590.0 | 1620.5 | 1686.9 | 1770.0 | 1793.3 | 1764.3 | 1684.0 | 1602.0 | 1576.3 | 1633.5 | 1716.6 |
| 46° | 1554.1 | 1585.6 | 1656.8 | 1741.1 | 1768.5 | 1737.1 | 1650.9 | 1567.5 | 1541.8 | 1595.8 | 1688.0 |
| 47° | 1517.7 | 1550.0 | 1626.5 | 1713.4 | 1740.5 | 1706.2 | 1617.0 | 1531.3 | 1506.6 | 1561.0 | 1659.4 |
| 48° | 1481.1 | 1517.0 | 1595.8 | 1684.5 | 1712.9 | 1678.6 | 1585.3 | 1496.8 | 1467.9 | 1525.6 | 1627.6 |
| 49° | 1443.3 | 1479.4 | 1564.1 | 1654.7 | 1682.3 | 1649.8 | 1553.0 | 1459.4 | 1431.4 | 1494.5 | 1595.1 |
| 50° | 1407.5 | 1444.3 | 1532.7 | 1627.2 | 1656.4 | 1621.0 | 1520.2 | 1425.5 | 1395.5 | 1459.5 | 1564.6 |
| 51° | 1368.4 | 1409.5 | 1501.7 | 1595.6 | 1628.6 | 1591.2 | 1488.4 | 1389.2 | 1357.6 | 1423.7 | 1531.5 |
| 52° | 1331.0 | 1372.6 | 1467.3 | 1567.2 | 1596.7 | 1559.0 | 1455.1 | 1350.9 | 1319.4 | 1386.2 | 1504.1 |
| 53° | 1295.6 | 1335.8 | 1433.8 | 1536.5 | 1568.7 | 1528.9 | 1421.6 | 1316.9 | 1283.0 | 1352.5 | 1469.5 |
| 54° | 1259.5 | 1299.0 | 1402.4 | 1508.9 | 1541.0 | 1498.8 | 1389.6 | 1281.8 | 1245.5 | 1316.4 | 1438.6 |
| 55° | 1221.6 | 1262.0 | 1367.2 | 1478.5 | 1510.8 | 1468.2 | 1355.5 | 1244.4 | 1207.3 | 1281.3 | 1406.3 |
| 56° | 1181.4 | 1227.3 | 1335.6 | 1445.1 | 1480.3 | 1435.4 | 1321.2 | 1206.2 | 1170.5 | 1245.2 | 1372.0 |
| 57° | 1144.9 | 1190.0 | 1299.8 | 1414.0 | 1451.4 | 1405.8 | 1290.3 | 1170.0 | 1131.8 | 1203.5 | 1339.1 |
| 58° | 1106.1 | 1153.8 | 1270.1 | 1380.6 | 1418.1 | 1373.3 | 1256.3 | 1132.5 | 1092.8 | 1172.5 | 1306.5 |
| 59° | 1066.8 | 1117.2 | 1234.9 | 1350.6 | 1389.6 | 1340.2 | 1220.3 | 1094.2 | 1053.9 | 1133.9 | 1274.8 |
| 60° | 1029.7 | 1079.5 | 1199.1 | 1318.8 | 1359.9 | 1309.1 | 1186.1 | 1057.3 | 1014.3 | 1097.4 | 1241.5 |
| 61° | 988.8  | 1043.2 | 1166.6 | 1288.7 | 1327.9 | 1276.6 | 1154.4 | 1021.2 | 975.4  | 1056.5 | 1207.9 |
| 62° | 951.7  | 1007.5 | 1132.4 | 1254.6 | 1297.4 | 1244.9 | 1120.4 | 982.7  | 937.0  | 1022.1 | 1175.6 |
| 63° | 911.8  | 971.3  | 1099.5 | 1221.8 | 1263.5 | 1211.2 | 1084.3 | 945.7  | 897.5  | 987.2  | 1142.8 |
| 64° | 872.2  | 932.9  | 1065.1 | 1188.9 | 1235.6 | 1180.3 | 1051.8 | 909.2  | 858.2  | 948.0  | 1109.6 |
| 65° | 834.1  | 897.5  | 1031.3 | 1156.9 | 1199.5 | 1144.4 | 1016.3 | 871.8  | 819.4  | 914.0  | 1075.1 |
| 66° | 794.5  | 859.5  | 997.9  | 1125.7 | 1172.7 | 1115.4 | 985.2  | 834.9  | 780.7  | 878.3  | 1043.2 |
| 67° | 753.7  | 821.5  | 962.8  | 1095.1 | 1137.0 | 1082.6 | 949.1  | 797.1  | 740.4  | 840.4  | 1010.7 |
| 68° | 713.3  | 784.8  | 930.0  | 1058.5 | 1104.0 | 1049.2 | 914.1  | 763.0  | 699.7  | 804.0  | 977.3  |
| 69° | 673.4  | 747.6  | 895.8  | 1027.3 | 1070.6 | 1016.4 | 878.4  | 724.7  | 660.2  | 768.3  | 943.7  |
| 70° | 633.4  | 711.8  | 861.8  | 992.7  | 1039.0 | 983.5  | 845.8  | 689.0  | 622.9  | 733.5  | 909.7  |
| 71° | 594.2  | 676.6  | 828.9  | 959.6  | 1006.3 | 950.8  | 812.4  | 653.7  | 580.6  | 696.7  | 876.8  |
| 72° | 555.4  | 640.0  | 796.0  | 924.7  | 973.3  | 918.1  | 778.1  | 617.8  | 543.1  | 662.6  | 842.7  |
| 73° | 515.0  | 604.3  | 762.6  | 888.5  | 941.2  | 885.5  | 745.1  | 583.1  | 502.4  | 625.4  | 809.7  |
| 74° | 476.0  | 569.4  | 729.9  | 856.7  | 906.4  | 850.6  | 711.4  | 547.0  | 463.6  | 591.3  | 776.9  |
| 75° | 438.3  | 535.1  | 696.8  | 822.8  | 875.9  | 819.4  | 677.9  | 512.2  | 424.5  | 556.4  | 744.9  |
| 76° | 399.7  | 501.0  | 663.9  | 791.9  | 840.0  | 786.0  | 644.5  | 477.8  | 386.6  | 523.5  | 711.5  |
| 77° | 362.2  | 467.5  | 629.7  | 759.2  | 811.1  | 755.8  | 613.9  | 445.1  | 349.5  | 489.3  | 679.4  |
| 78° | 324.6  | 435.0  | 598.4  | 727.4  | 775.1  | 720.6  | 579.4  | 411.0  | 312.9  | 455.1  | 643.9  |
| 79° | 289.2  | 402.4  | 566.6  | 696.4  | 746.7  | 692.5  | 549.4  | 380.2  | 276.7  | 423.0  | 612.6  |
| 80° | 254.6  | 371.4  | 534.8  | 664.8  | 712.2  | 657.5  | 518.0  | 349.4  | 242.0  | 390.6  | 581.9  |
| 81° | 221.1  | 341.4  | 504.3  | 634.1  | 684.9  | 629.6  | 489.4  | 319.0  | 207.5  | 360.1  | 551.9  |
| 82° | 188.8  | 312.9  | 475.0  | 604.1  | 652.4  | 598.9  | 458.8  | 290.5  | 175.9  | 329.5  | 519.6  |
| 83° | 158.1  | 284.8  | 446.3  | 573.6  | 623.4  | 571.3  | 431.7  | 262.1  | 146.1  | 301.6  | 493.1  |
| 84° | 129.9  | 257.8  | 420.5  | 546.4  | 597.0  | 544.2  | 406.4  | 238.1  | 117.6  | 274.0  | 466.0  |
| 85° | 104.3  | 233.2  | 395.7  | 520.2  | 571.6  | 519.2  | 383.0  | 214.6  | 93.8   | 249.2  | 439.4  |
| 86° | 81.0   | 210.0  | 371.9  | 495.4  | 548.4  | 495.8  | 360.0  | 193.7  | 72.5   | 226.4  | 416.4  |
| 87° | 60.7   | 188.3  | 348.7  | 471.2  | 524.6  | 472.7  | 338.3  | 173.2  | 53.4   | 205.7  | 392.4  |



TEST NUMBER: P861209

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 4000K 120V

**CANDELA DISTRIBUTION (continued):**

|      | 0°   | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180° | 202.5° | 225°  |
|------|------|-------|-------|-------|-------|--------|-------|--------|------|--------|-------|
| 90°  | 30.8 | 146.8 | 302.3 | 421.5 | 473.5 | 423.9  | 293.3 | 131.9  | 23.6 | 159.0  | 338.7 |
| 91°  | 29.9 | 138.6 | 292.2 | 409.2 | 457.6 | 408.5  | 281.7 | 123.9  | 23.1 | 149.4  | 325.2 |
| 92°  | 29.2 | 130.7 | 281.7 | 397.1 | 446.2 | 397.7  | 272.0 | 117.0  | 22.8 | 141.2  | 314.4 |
| 93°  | 28.5 | 123.5 | 271.1 | 384.8 | 432.2 | 384.6  | 262.0 | 109.7  | 23.1 | 132.4  | 302.5 |
| 94°  | 27.5 | 116.6 | 261.5 | 373.1 | 420.0 | 373.4  | 253.2 | 102.8  | 22.6 | 124.1  | 291.6 |
| 95°  | 27.3 | 110.0 | 252.1 | 362.1 | 406.8 | 360.3  | 242.5 | 96.5   | 21.9 | 116.7  | 280.8 |
| 96°  | 26.4 | 103.2 | 242.0 | 350.9 | 394.4 | 350.7  | 233.7 | 90.8   | 21.0 | 109.5  | 270.3 |
| 97°  | 25.9 | 97.0  | 232.9 | 338.7 | 382.6 | 338.1  | 223.9 | 85.1   | 19.8 | 102.3  | 258.8 |
| 98°  | 25.4 | 91.8  | 223.8 | 328.6 | 369.6 | 327.4  | 215.7 | 79.6   | 19.3 | 96.2   | 248.6 |
| 99°  | 24.9 | 86.1  | 214.6 | 318.2 | 358.7 | 317.0  | 206.8 | 75.0   | 18.8 | 89.6   | 238.5 |
| 100° | 24.5 | 80.7  | 206.1 | 307.6 | 345.2 | 306.3  | 197.8 | 70.7   | 18.8 | 83.6   | 228.4 |
| 101° | 24.0 | 76.5  | 197.7 | 297.0 | 335.4 | 296.5  | 189.2 | 65.6   | 18.7 | 78.3   | 219.4 |
| 102° | 24.0 | 72.2  | 188.7 | 287.1 | 321.6 | 284.8  | 181.9 | 61.1   | 18.7 | 73.6   | 209.7 |
| 103° | 23.5 | 67.6  | 181.0 | 276.1 | 313.7 | 274.8  | 174.4 | 56.8   | 18.6 | 68.6   | 200.5 |
| 104° | 23.0 | 63.4  | 173.0 | 265.8 | 300.4 | 263.4  | 166.1 | 52.6   | 18.5 | 63.9   | 192.2 |
| 105° | 22.4 | 59.7  | 165.9 | 256.2 | 291.7 | 254.7  | 159.2 | 49.1   | 18.4 | 59.4   | 183.2 |
| 106° | 22.1 | 55.7  | 157.9 | 246.4 | 278.6 | 244.2  | 151.0 | 45.1   | 18.3 | 55.3   | 174.6 |
| 107° | 21.9 | 51.5  | 151.0 | 236.8 | 270.6 | 235.7  | 144.3 | 41.6   | 18.2 | 51.2   | 166.5 |
| 108° | 21.4 | 48.4  | 143.4 | 227.1 | 257.3 | 225.7  | 136.0 | 38.3   | 18.1 | 46.9   | 158.5 |
| 109° | 20.9 | 44.7  | 136.7 | 217.6 | 250.1 | 217.3  | 129.8 | 35.3   | 17.7 | 43.4   | 151.1 |
| 110° | 20.5 | 41.3  | 129.9 | 208.3 | 238.4 | 208.2  | 122.4 | 32.4   | 17.0 | 39.4   | 142.8 |
| 111° | 20.0 | 38.3  | 123.3 | 200.0 | 229.9 | 199.7  | 116.5 | 29.4   | 16.9 | 36.3   | 136.0 |
| 112° | 19.5 | 35.2  | 117.1 | 190.9 | 219.3 | 190.1  | 109.8 | 26.4   | 16.5 | 33.0   | 128.4 |
| 113° | 19.3 | 32.4  | 110.8 | 182.2 | 211.0 | 181.8  | 104.2 | 24.0   | 15.8 | 29.3   | 121.6 |
| 114° | 19.1 | 29.8  | 104.7 | 173.9 | 201.5 | 172.2  | 97.7  | 21.7   | 16.0 | 26.4   | 115.1 |
| 115° | 18.8 | 27.4  | 98.9  | 166.0 | 193.5 | 164.3  | 92.4  | 19.3   | 15.5 | 23.8   | 108.4 |
| 116° | 18.1 | 24.8  | 93.3  | 157.9 | 184.1 | 155.3  | 86.6  | 17.9   | 15.1 | 21.7   | 101.9 |
| 117° | 17.9 | 22.9  | 87.4  | 150.3 | 175.3 | 148.2  | 81.3  | 16.0   | 14.8 | 18.8   | 95.4  |
| 118° | 17.2 | 21.0  | 81.9  | 142.7 | 167.1 | 140.1  | 76.0  | 14.8   | 14.6 | 17.0   | 89.9  |
| 119° | 16.7 | 20.1  | 77.4  | 135.2 | 158.1 | 133.1  | 71.4  | 14.3   | 14.3 | 15.3   | 83.5  |
| 120° | 16.5 | 19.1  | 72.2  | 128.0 | 151.1 | 126.0  | 66.0  | 14.3   | 14.0 | 14.4   | 78.1  |
| 121° | 16.0 | 18.7  | 67.3  | 121.1 | 141.7 | 118.7  | 61.1  | 14.1   | 13.7 | 14.2   | 73.0  |
| 122° | 15.5 | 18.2  | 62.6  | 114.2 | 135.5 | 111.7  | 56.1  | 13.9   | 13.5 | 14.2   | 67.5  |
| 123° | 15.5 | 17.9  | 57.8  | 107.6 | 126.6 | 104.9  | 51.8  | 13.8   | 13.2 | 13.7   | 62.0  |
| 124° | 14.8 | 17.7  | 53.0  | 101.1 | 120.5 | 98.2   | 46.6  | 13.6   | 12.3 | 13.4   | 56.9  |
| 125° | 14.1 | 17.5  | 48.7  | 94.8  | 111.5 | 91.8   | 42.5  | 12.2   | 12.0 | 12.5   | 52.0  |
| 126° | 13.6 | 17.0  | 44.1  | 88.3  | 105.7 | 85.3   | 37.9  | 12.2   | 11.3 | 12.5   | 46.9  |
| 127° | 13.2 | 16.5  | 40.1  | 82.1  | 97.8  | 79.3   | 34.2  | 11.7   | 11.3 | 12.0   | 42.4  |
| 128° | 12.9 | 16.1  | 35.7  | 76.7  | 92.2  | 73.9   | 30.5  | 11.5   | 10.9 | 11.8   | 38.0  |
| 129° | 12.9 | 15.3  | 32.2  | 70.5  | 84.2  | 67.8   | 26.4  | 11.5   | 10.6 | 11.3   | 33.4  |
| 130° | 12.2 | 15.1  | 28.4  | 65.3  | 79.5  | 62.5   | 23.0  | 11.3   | 10.2 | 11.1   | 29.3  |
| 131° | 12.0 | 14.6  | 24.9  | 59.5  | 72.8  | 56.7   | 19.6  | 11.5   | 9.8  | 10.6   | 25.4  |
| 132° | 11.5 | 14.4  | 21.5  | 54.2  | 67.5  | 51.3   | 16.6  | 11.0   | 9.4  | 10.9   | 21.5  |





TEST NUMBER: P861209

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 4000K 120V

**CANDELA DISTRIBUTION (continued):**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|------|------|-------|------|-------|------|--------|------|--------|------|--------|------|
| 135° | 10.6 | 13.2  | 14.2 | 39.4  | 49.8 | 36.5   | 10.2 | 10.3   | 8.0  | 10.4   | 11.8 |
| 136° | 10.6 | 12.8  | 13.3 | 34.9  | 44.9 | 32.0   | 9.5  | 9.4    | 8.0  | 9.4    | 10.7 |
| 137° | 10.1 | 12.5  | 13.0 | 30.4  | 39.3 | 27.4   | 9.0  | 8.7    | 8.0  | 8.7    | 9.9  |
| 138° | 10.1 | 12.1  | 12.8 | 26.6  | 34.4 | 23.6   | 8.5  | 8.0    | 7.9  | 8.5    | 9.0  |
| 139° | 9.6  | 11.7  | 12.3 | 22.4  | 29.5 | 19.6   | 8.3  | 8.0    | 7.9  | 8.0    | 8.5  |
| 140° | 9.4  | 11.3  | 12.1 | 18.8  | 25.4 | 16.0   | 8.1  | 7.5    | 7.9  | 8.0    | 8.3  |
| 141° | 9.4  | 10.9  | 11.4 | 15.4  | 21.0 | 12.7   | 7.8  | 7.4    | 7.9  | 7.9    | 7.6  |
| 142° | 8.9  | 10.4  | 11.1 | 13.0  | 16.6 | 10.5   | 7.8  | 7.2    | 7.8  | 7.9    | 7.3  |
| 143° | 8.9  | 10.2  | 11.1 | 11.9  | 13.6 | 8.6    | 7.7  | 7.1    | 7.8  | 7.8    | 7.1  |
| 144° | 8.5  | 9.9   | 10.7 | 11.4  | 10.0 | 8.4    | 7.6  | 7.0    | 7.8  | 7.7    | 6.9  |
| 145° | 8.2  | 9.7   | 10.4 | 11.2  | 8.1  | 8.1    | 7.6  | 6.8    | 7.8  | 7.7    | 6.6  |
| 146° | 8.0  | 9.2   | 10.1 | 10.9  | 7.6  | 7.9    | 7.5  | 6.7    | 7.3  | 7.6    | 6.7  |
| 147° | 7.8  | 9.0   | 9.8  | 10.7  | 7.4  | 7.9    | 7.4  | 6.6    | 7.1  | 7.5    | 6.7  |
| 148° | 7.5  | 9.0   | 9.4  | 10.4  | 7.2  | 7.8    | 7.4  | 6.5    | 7.3  | 7.4    | 6.7  |
| 149° | 7.5  | 8.7   | 9.1  | 10.2  | 6.9  | 7.7    | 7.3  | 6.6    | 6.8  | 7.4    | 6.8  |
| 150° | 7.3  | 8.3   | 9.0  | 9.7   | 7.2  | 7.6    | 7.3  | 6.6    | 6.8  | 7.3    | 6.8  |
| 151° | 7.3  | 8.3   | 9.0  | 9.7   | 6.9  | 7.5    | 7.3  | 6.6    | 6.1  | 7.2    | 6.8  |
| 152° | 6.8  | 8.0   | 8.9  | 9.5   | 6.7  | 7.4    | 7.2  | 6.6    | 6.1  | 7.3    | 6.8  |
| 153° | 7.1  | 7.6   | 8.8  | 9.5   | 6.4  | 7.3    | 7.2  | 6.6    | 6.1  | 7.3    | 6.9  |
| 154° | 7.0  | 7.6   | 8.8  | 8.8   | 6.4  | 7.2    | 7.2  | 6.7    | 6.1  | 7.4    | 6.9  |
| 155° | 7.0  | 7.6   | 8.8  | 8.7   | 6.4  | 7.1    | 7.1  | 6.7    | 6.1  | 7.4    | 6.9  |
| 156° | 7.0  | 7.6   | 8.8  | 8.6   | 6.4  | 7.0    | 7.1  | 6.7    | 6.1  | 7.5    | 7.0  |
| 157° | 6.9  | 7.6   | 8.7  | 8.5   | 6.4  | 6.9    | 7.1  | 6.7    | 6.1  | 7.6    | 7.0  |
| 158° | 6.9  | 7.6   | 8.7  | 8.4   | 6.3  | 6.9    | 7.0  | 6.7    | 6.1  | 7.6    | 7.0  |
| 159° | 6.9  | 7.6   | 8.7  | 8.3   | 6.3  | 6.9    | 7.0  | 6.8    | 6.1  | 7.7    | 7.1  |
| 160° | 6.9  | 7.7   | 8.7  | 8.3   | 6.3  | 6.8    | 7.0  | 6.8    | 6.1  | 7.7    | 7.1  |
| 161° | 7.0  | 7.7   | 8.6  | 8.5   | 6.3  | 6.8    | 6.9  | 6.8    | 7.0  | 7.8    | 7.3  |
| 162° | 7.0  | 7.7   | 8.6  | 8.1   | 6.3  | 6.8    | 6.9  | 7.3    | 7.8  | 8.3    | 8.1  |
| 163° | 7.0  | 7.7   | 8.6  | 7.8   | 6.3  | 6.7    | 6.9  | 7.7    | 8.2  | 8.5    | 8.5  |
| 164° | 7.1  | 7.7   | 8.6  | 7.8   | 6.3  | 6.7    | 7.1  | 8.0    | 8.7  | 8.7    | 8.8  |
| 165° | 7.1  | 7.7   | 8.6  | 7.7   | 6.3  | 6.7    | 7.4  | 8.2    | 9.2  | 8.8    | 9.2  |
| 166° | 7.3  | 7.8   | 8.5  | 7.6   | 6.3  | 6.7    | 7.6  | 8.4    | 9.4  | 8.8    | 9.7  |
| 167° | 7.3  | 7.8   | 8.5  | 7.6   | 6.4  | 6.6    | 7.6  | 8.5    | 10.1 | 8.8    | 9.9  |
| 168° | 8.0  | 7.8   | 8.5  | 7.5   | 6.4  | 6.6    | 7.6  | 8.5    | 10.6 | 8.8    | 10.0 |
| 169° | 8.0  | 8.0   | 8.5  | 7.4   | 6.4  | 6.6    | 7.6  | 8.5    | 11.1 | 8.8    | 10.0 |
| 170° | 8.2  | 8.5   | 8.4  | 7.3   | 6.5  | 6.5    | 7.6  | 8.5    | 11.5 | 8.8    | 10.1 |
| 171° | 8.0  | 8.7   | 8.4  | 7.3   | 6.5  | 6.5    | 7.6  | 8.6    | 11.5 | 8.9    | 10.1 |
| 172° | 8.2  | 9.2   | 8.4  | 7.3   | 6.6  | 6.5    | 7.6  | 8.6    | 11.5 | 8.9    | 10.2 |
| 173° | 8.3  | 9.7   | 8.4  | 7.3   | 6.6  | 6.4    | 7.6  | 8.6    | 11.4 | 8.9    | 10.2 |
| 174° | 8.5  | 9.9   | 8.4  | 7.3   | 6.7  | 6.9    | 7.6  | 8.6    | 11.4 | 8.9    | 10.3 |
| 175° | 8.6  | 9.9   | 8.3  | 7.3   | 6.7  | 6.9    | 8.1  | 8.6    | 11.4 | 8.9    | 10.3 |
| 176° | 8.8  | 9.9   | 8.3  | 7.3   | 7.2  | 7.2    | 7.8  | 8.7    | 11.3 | 8.9    | 10.4 |
| 177° | 8.9  | 10.1  | 8.3  | 7.4   | 7.4  | 7.4    | 7.8  | 8.7    | 11.3 | 9.0    | 10.4 |



TEST NUMBER: P861209

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 4000K 120V

**CANDELA DISTRIBUTION (continued):**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 180° | 9.0 | 9.0   | 9.0 | 9.0   | 9.0 | 9.0    | 9.0  | 9.0    | 9.0  | 9.0    | 9.0  |



TEST NUMBER: P861209

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 4000K 120V

**CANDELA DISTRIBUTION (continued):**

|     | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-----|--------|--------|--------|--------|--------|--------|
| 0°  | 2530.0 | 2530.0 | 2530.0 | 2530.0 | 2530.0 | 2530.0 |
| 1°  | 2531.5 | 2530.8 | 2532.3 | 2527.6 | 2530.2 | 2530.2 |
| 2°  | 2532.3 | 2529.8 | 2533.3 | 2523.9 | 2528.0 | 2530.2 |
| 3°  | 2531.0 | 2524.9 | 2530.6 | 2526.8 | 2527.2 | 2528.8 |
| 4°  | 2526.4 | 2522.3 | 2528.0 | 2525.8 | 2517.4 | 2521.3 |
| 5°  | 2523.7 | 2521.1 | 2523.5 | 2521.5 | 2516.8 | 2514.8 |
| 6°  | 2517.6 | 2518.4 | 2518.5 | 2517.6 | 2512.8 | 2506.1 |
| 7°  | 2512.2 | 2513.4 | 2516.2 | 2514.6 | 2507.5 | 2501.4 |
| 8°  | 2506.7 | 2509.5 | 2512.4 | 2508.7 | 2499.6 | 2493.7 |
| 9°  | 2498.5 | 2501.8 | 2503.6 | 2504.0 | 2488.6 | 2487.2 |
| 10° | 2492.6 | 2495.5 | 2495.9 | 2495.7 | 2480.4 | 2474.1 |
| 11° | 2482.3 | 2487.0 | 2487.6 | 2487.6 | 2466.4 | 2468.5 |
| 12° | 2474.2 | 2477.4 | 2476.0 | 2476.8 | 2457.5 | 2453.8 |
| 13° | 2465.2 | 2463.8 | 2471.9 | 2465.2 | 2445.9 | 2437.6 |
| 14° | 2452.0 | 2454.4 | 2463.4 | 2454.2 | 2427.8 | 2424.4 |
| 15° | 2440.8 | 2446.1 | 2452.6 | 2443.9 | 2415.0 | 2408.9 |
| 16° | 2428.6 | 2433.5 | 2437.6 | 2429.4 | 2401.6 | 2394.1 |
| 17° | 2416.6 | 2419.7 | 2426.6 | 2413.8 | 2380.5 | 2374.6 |
| 18° | 2402.0 | 2405.9 | 2410.3 | 2397.7 | 2364.4 | 2356.3 |
| 19° | 2388.2 | 2392.1 | 2398.0 | 2381.7 | 2344.7 | 2339.8 |
| 20° | 2372.8 | 2378.0 | 2385.1 | 2365.2 | 2327.4 | 2319.1 |
| 21° | 2352.8 | 2361.0 | 2367.5 | 2346.7 | 2307.1 | 2298.8 |
| 22° | 2338.4 | 2346.9 | 2351.0 | 2326.4 | 2285.0 | 2276.6 |
| 23° | 2321.6 | 2329.3 | 2334.1 | 2308.5 | 2263.8 | 2254.9 |
| 24° | 2302.9 | 2312.8 | 2316.3 | 2290.1 | 2241.3 | 2231.7 |
| 25° | 2287.2 | 2291.7 | 2294.1 | 2270.8 | 2218.9 | 2206.7 |
| 26° | 2265.3 | 2275.8 | 2275.4 | 2248.6 | 2195.2 | 2182.8 |
| 27° | 2247.0 | 2257.3 | 2253.9 | 2224.8 | 2171.4 | 2156.5 |
| 28° | 2226.2 | 2238.0 | 2235.2 | 2200.9 | 2147.6 | 2129.5 |
| 29° | 2205.3 | 2216.3 | 2214.7 | 2177.7 | 2123.2 | 2099.5 |
| 30° | 2183.8 | 2198.6 | 2193.3 | 2153.7 | 2097.2 | 2071.6 |
| 31° | 2161.2 | 2176.1 | 2171.0 | 2126.5 | 2068.4 | 2042.6 |
| 32° | 2137.9 | 2153.1 | 2149.2 | 2103.3 | 2041.9 | 2014.3 |
| 33° | 2116.5 | 2130.7 | 2126.9 | 2079.5 | 2013.3 | 1984.8 |
| 34° | 2092.1 | 2110.2 | 2105.1 | 2052.5 | 1983.2 | 1954.2 |
| 35° | 2067.3 | 2086.9 | 2082.0 | 2024.5 | 1952.4 | 1921.2 |
| 36° | 2043.2 | 2061.7 | 2055.6 | 1997.9 | 1923.8 | 1889.9 |
| 37° | 2019.0 | 2040.1 | 2031.4 | 1969.2 | 1894.0 | 1860.6 |
| 38° | 1994.4 | 2017.0 | 2006.6 | 1941.9 | 1859.9 | 1828.8 |
| 39° | 1967.8 | 1994.4 | 1983.6 | 1915.2 | 1830.1 | 1794.7 |
| 40° | 1941.7 | 1970.8 | 1957.2 | 1883.9 | 1797.6 | 1761.2 |
| 41° | 1915.7 | 1944.0 | 1932.7 | 1852.9 | 1765.1 | 1727.1 |
| 42° | 1891.5 | 1918.9 | 1904.7 | 1823.2 | 1733.1 | 1693.4 |



TEST NUMBER: P861209

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 4000K 120V

**CANDELA DISTRIBUTION (continued):**

|     | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-----|--------|--------|--------|--------|--------|--------|
| 45° | 1810.5 | 1842.0 | 1821.9 | 1729.6 | 1633.6 | 1590.0 |
| 46° | 1784.1 | 1815.2 | 1794.2 | 1699.7 | 1598.7 | 1554.1 |
| 47° | 1757.8 | 1789.6 | 1768.1 | 1668.3 | 1564.8 | 1517.7 |
| 48° | 1729.7 | 1761.7 | 1738.6 | 1635.2 | 1529.9 | 1481.1 |
| 49° | 1701.8 | 1734.4 | 1711.8 | 1604.5 | 1494.6 | 1443.3 |
| 50° | 1673.9 | 1707.7 | 1680.9 | 1572.2 | 1461.0 | 1407.5 |
| 51° | 1644.0 | 1681.5 | 1652.1 | 1541.9 | 1425.0 | 1368.4 |
| 52° | 1613.0 | 1654.0 | 1619.8 | 1511.1 | 1389.1 | 1331.0 |
| 53° | 1584.0 | 1625.1 | 1590.2 | 1476.6 | 1353.6 | 1295.6 |
| 54° | 1554.0 | 1598.1 | 1560.2 | 1443.2 | 1317.6 | 1259.5 |
| 55° | 1525.5 | 1570.7 | 1531.9 | 1409.0 | 1282.4 | 1221.6 |
| 56° | 1495.2 | 1543.0 | 1504.5 | 1376.1 | 1246.3 | 1181.4 |
| 57° | 1465.4 | 1513.4 | 1473.5 | 1345.3 | 1210.7 | 1144.9 |
| 58° | 1433.2 | 1483.0 | 1440.9 | 1312.1 | 1173.5 | 1106.1 |
| 59° | 1404.4 | 1454.7 | 1409.4 | 1278.9 | 1136.4 | 1066.8 |
| 60° | 1373.1 | 1424.6 | 1377.7 | 1245.6 | 1100.7 | 1029.7 |
| 61° | 1340.4 | 1391.9 | 1344.5 | 1212.4 | 1061.8 | 988.8  |
| 62° | 1308.9 | 1364.1 | 1311.9 | 1178.0 | 1025.9 | 951.7  |
| 63° | 1276.7 | 1332.6 | 1282.6 | 1147.0 | 989.3  | 911.8  |
| 64° | 1247.0 | 1301.1 | 1250.1 | 1113.2 | 951.6  | 872.2  |
| 65° | 1212.9 | 1270.6 | 1216.9 | 1079.0 | 915.8  | 834.1  |
| 66° | 1184.3 | 1237.9 | 1185.4 | 1046.4 | 879.3  | 794.5  |
| 67° | 1149.2 | 1205.9 | 1153.4 | 1011.9 | 841.1  | 753.7  |
| 68° | 1116.2 | 1174.6 | 1120.1 | 975.7  | 804.3  | 713.3  |
| 69° | 1085.0 | 1144.0 | 1088.5 | 944.9  | 769.6  | 673.4  |
| 70° | 1050.6 | 1110.6 | 1055.4 | 909.2  | 735.0  | 633.4  |
| 71° | 1019.5 | 1078.2 | 1024.2 | 875.2  | 698.3  | 594.2  |
| 72° | 986.5  | 1045.6 | 990.7  | 841.3  | 663.0  | 555.4  |
| 73° | 953.4  | 1011.5 | 956.5  | 807.8  | 626.5  | 515.0  |
| 74° | 921.1  | 980.0  | 923.9  | 774.7  | 591.2  | 476.0  |
| 75° | 889.0  | 943.5  | 892.6  | 739.1  | 556.7  | 438.3  |
| 76° | 855.7  | 910.7  | 860.2  | 707.3  | 522.3  | 399.7  |
| 77° | 825.5  | 874.8  | 826.1  | 674.8  | 488.5  | 362.2  |
| 78° | 791.4  | 839.8  | 795.9  | 641.8  | 453.9  | 324.6  |
| 79° | 762.2  | 805.7  | 762.9  | 610.9  | 422.1  | 289.2  |
| 80° | 729.7  | 771.4  | 730.6  | 579.5  | 390.0  | 254.6  |
| 81° | 699.2  | 738.8  | 698.3  | 551.0  | 358.5  | 221.1  |
| 82° | 668.0  | 706.3  | 667.6  | 521.1  | 328.8  | 188.8  |
| 83° | 639.0  | 676.2  | 637.7  | 492.2  | 301.1  | 158.1  |
| 84° | 609.7  | 646.6  | 608.0  | 464.7  | 273.3  | 129.9  |
| 85° | 582.2  | 618.6  | 581.3  | 438.5  | 248.3  | 104.3  |
| 86° | 558.7  | 592.8  | 555.6  | 413.4  | 224.5  | 81.0   |
| 87° | 535.2  | 568.3  | 530.2  | 389.3  | 200.9  | 60.7   |



TEST NUMBER: P861209

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 4000K 120V

**CANDELA DISTRIBUTION (continued):**

|      | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360° |
|------|--------|-------|--------|-------|--------|------|
| 90°  | 478.7  | 506.6 | 469.0  | 332.9 | 154.0  | 30.8 |
| 91°  | 462.2  | 491.4 | 454.3  | 321.1 | 145.2  | 29.9 |
| 92°  | 449.3  | 476.8 | 440.4  | 309.5 | 136.7  | 29.2 |
| 93°  | 435.1  | 464.3 | 427.1  | 298.3 | 128.8  | 28.5 |
| 94°  | 421.8  | 450.9 | 414.3  | 287.5 | 120.7  | 27.5 |
| 95°  | 407.5  | 438.1 | 401.7  | 275.7 | 113.9  | 27.3 |
| 96°  | 394.9  | 425.2 | 387.5  | 265.2 | 106.9  | 26.4 |
| 97°  | 380.6  | 412.8 | 375.4  | 255.3 | 100.2  | 25.9 |
| 98°  | 368.2  | 400.8 | 363.6  | 246.1 | 93.8   | 25.4 |
| 99°  | 356.0  | 388.8 | 351.7  | 235.9 | 87.9   | 24.9 |
| 100° | 343.6  | 376.9 | 340.5  | 226.0 | 82.3   | 24.5 |
| 101° | 331.5  | 365.6 | 328.4  | 216.7 | 78.0   | 24.0 |
| 102° | 319.9  | 354.5 | 317.1  | 207.4 | 73.0   | 24.0 |
| 103° | 308.8  | 343.2 | 305.4  | 198.6 | 68.5   | 23.5 |
| 104° | 296.5  | 331.6 | 294.5  | 189.9 | 63.7   | 23.0 |
| 105° | 285.5  | 322.7 | 282.7  | 181.6 | 59.7   | 22.4 |
| 106° | 273.8  | 311.8 | 272.5  | 172.8 | 55.2   | 22.1 |
| 107° | 263.4  | 300.8 | 262.7  | 164.6 | 51.1   | 21.9 |
| 108° | 251.8  | 288.7 | 253.4  | 156.6 | 47.9   | 21.4 |
| 109° | 242.9  | 278.7 | 243.5  | 149.1 | 44.3   | 20.9 |
| 110° | 231.7  | 267.7 | 233.3  | 141.4 | 41.0   | 20.5 |
| 111° | 223.0  | 256.7 | 223.5  | 134.0 | 37.8   | 20.0 |
| 112° | 212.7  | 246.0 | 213.7  | 127.5 | 34.9   | 19.5 |
| 113° | 204.1  | 235.7 | 204.1  | 120.6 | 32.1   | 19.3 |
| 114° | 194.8  | 225.8 | 194.6  | 113.9 | 29.3   | 19.1 |
| 115° | 185.9  | 216.1 | 185.8  | 106.9 | 27.0   | 18.8 |
| 116° | 176.5  | 206.2 | 177.2  | 101.2 | 24.4   | 18.1 |
| 117° | 168.0  | 197.1 | 168.7  | 95.0  | 22.5   | 17.9 |
| 118° | 159.2  | 188.4 | 160.6  | 89.3  | 21.4   | 17.2 |
| 119° | 151.3  | 179.0 | 152.5  | 83.7  | 20.6   | 16.7 |
| 120° | 143.5  | 170.3 | 144.2  | 78.6  | 19.9   | 16.5 |
| 121° | 135.1  | 161.8 | 136.4  | 73.2  | 19.7   | 16.0 |
| 122° | 128.0  | 153.1 | 129.3  | 68.1  | 19.5   | 15.5 |
| 123° | 120.0  | 144.9 | 121.2  | 62.9  | 19.0   | 15.5 |
| 124° | 112.6  | 137.2 | 114.2  | 58.1  | 18.8   | 14.8 |
| 125° | 105.8  | 129.4 | 106.9  | 53.2  | 18.5   | 14.1 |
| 126° | 98.4   | 121.4 | 99.9   | 48.4  | 17.8   | 13.6 |
| 127° | 92.1   | 113.9 | 93.3   | 44.1  | 17.6   | 13.2 |
| 128° | 85.6   | 106.9 | 86.5   | 39.7  | 17.1   | 12.9 |
| 129° | 78.8   | 99.6  | 80.4   | 35.3  | 16.7   | 12.9 |
| 130° | 73.3   | 92.6  | 74.4   | 31.6  | 16.4   | 12.2 |
| 131° | 67.3   | 86.1  | 68.3   | 27.7  | 15.9   | 12.0 |
| 132° | 61.2   | 79.7  | 62.5   | 24.5  | 15.3   | 11.5 |



TEST NUMBER: P861209

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 4000K 120V

**CANDELA DISTRIBUTION (continued):**

|      | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|------|--------|------|--------|------|--------|------|
| 135° | 44.4   | 61.0 | 45.6   | 15.9 | 14.1   | 10.6 |
| 136° | 38.7   | 55.2 | 40.8   | 14.7 | 13.8   | 10.6 |
| 137° | 33.7   | 49.6 | 36.0   | 14.5 | 13.4   | 10.1 |
| 138° | 29.2   | 44.0 | 31.1   | 14.2 | 13.1   | 10.1 |
| 139° | 24.5   | 38.8 | 26.6   | 13.8 | 12.4   | 9.6  |
| 140° | 20.6   | 34.0 | 22.7   | 13.5 | 12.2   | 9.4  |
| 141° | 15.9   | 29.2 | 18.9   | 12.8 | 12.0   | 9.4  |
| 142° | 12.3   | 24.5 | 15.6   | 12.6 | 11.5   | 8.9  |
| 143° | 10.9   | 20.4 | 13.6   | 12.1 | 11.0   | 8.9  |
| 144° | 9.3    | 16.6 | 12.9   | 11.6 | 10.6   | 8.5  |
| 145° | 8.5    | 13.9 | 12.6   | 11.4 | 10.3   | 8.2  |
| 146° | 8.3    | 12.9 | 12.3   | 10.9 | 10.3   | 8.0  |
| 147° | 7.8    | 12.0 | 12.0   | 10.7 | 9.9    | 7.8  |
| 148° | 7.7    | 11.7 | 11.7   | 10.4 | 9.4    | 7.5  |
| 149° | 7.7    | 11.2 | 11.5   | 10.0 | 9.4    | 7.5  |
| 150° | 7.6    | 11.0 | 11.0   | 9.7  | 8.9    | 7.3  |
| 151° | 7.5    | 10.8 | 10.7   | 9.5  | 9.2    | 7.3  |
| 152° | 7.4    | 10.5 | 10.5   | 9.0  | 8.9    | 6.8  |
| 153° | 7.3    | 10.5 | 10.5   | 9.0  | 8.9    | 7.1  |
| 154° | 7.2    | 10.0 | 10.3   | 9.0  | 8.8    | 7.0  |
| 155° | 7.1    | 9.6  | 10.1   | 9.0  | 8.8    | 7.0  |
| 156° | 6.2    | 9.5  | 9.9    | 9.0  | 8.7    | 7.0  |
| 157° | 6.4    | 9.4  | 9.7    | 8.9  | 8.6    | 6.9  |
| 158° | 6.2    | 9.3  | 9.5    | 8.9  | 8.6    | 6.9  |
| 159° | 6.2    | 9.2  | 9.4    | 8.9  | 8.5    | 6.9  |
| 160° | 6.4    | 9.2  | 9.2    | 8.9  | 8.5    | 6.9  |
| 161° | 6.6    | 9.1  | 9.1    | 8.9  | 8.4    | 7.0  |
| 162° | 6.9    | 8.6  | 9.0    | 8.8  | 8.4    | 7.0  |
| 163° | 7.1    | 8.8  | 8.9    | 8.8  | 8.3    | 7.0  |
| 164° | 7.4    | 8.6  | 8.7    | 8.8  | 8.3    | 7.1  |
| 165° | 7.6    | 8.5  | 8.6    | 8.8  | 8.2    | 7.1  |
| 166° | 7.8    | 8.4  | 8.5    | 8.8  | 8.7    | 7.3  |
| 167° | 8.1    | 8.3  | 8.4    | 8.7  | 9.2    | 7.3  |
| 168° | 8.1    | 8.2  | 8.4    | 8.7  | 9.6    | 8.0  |
| 169° | 8.1    | 8.1  | 8.3    | 8.7  | 9.9    | 8.0  |
| 170° | 8.1    | 7.7  | 8.3    | 8.7  | 11.0   | 8.2  |
| 171° | 8.2    | 7.9  | 8.2    | 8.7  | 10.8   | 8.0  |
| 172° | 8.2    | 7.6  | 8.2    | 8.6  | 11.0   | 8.2  |
| 173° | 8.2    | 7.6  | 8.1    | 8.6  | 11.0   | 8.3  |
| 174° | 8.2    | 7.4  | 7.9    | 8.6  | 11.0   | 8.5  |
| 175° | 8.3    | 7.2  | 7.9    | 8.6  | 11.0   | 8.6  |
| 176° | 8.3    | 7.2  | 7.9    | 8.6  | 11.0   | 8.8  |
| 177° | 8.3    | 7.4  | 7.9    | 8.6  | 11.0   | 8.9  |



TEST NUMBER: P861209

CATALOG NUMBER: 8APVTLD-SL3C3 LO POWER 4000K 120V

**CANDELA DISTRIBUTION (continued):**

|      | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|------|--------|------|--------|------|--------|------|
| 180° | 9.0    | 9.0  | 9.0    | 9.0  | 9.0    | 9.0  |



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°







|     |        |        |        |        |        |        |        |        |        |        |        |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 43° | 1658.9 | 1687.6 | 1752.2 | 1826.0 | 1847.9 | 1819.6 | 1743.5 | 1672.3 | 1646.9 | 1696.8 | 1777.0 |
| 44° | 1624.7 | 1654.4 | 1719.9 | 1797.9 | 1821.4 | 1792.4 | 1715.0 | 1637.5 | 1611.3 | 1665.4 | 1748.6 |



|     |      |       |       |       |       |       |       |       |      |       |       |
|-----|------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| 88° | 45.8 | 171.9 | 330.0 | 451.9 | 506.2 | 454.9 | 321.3 | 156.1 | 38.6 | 187.6 | 372.0 |
| 89° | 35.5 | 157.2 | 315.5 | 435.5 | 486.4 | 436.3 | 304.8 | 141.9 | 28.3 | 171.3 | 353.3 |



|      |      |      |      |      |      |      |      |      |     |      |      |
|------|------|------|------|------|------|------|------|------|-----|------|------|
| 133° | 11.3 | 13.9 | 18.5 | 49.2 | 61.3 | 46.4 | 14.1 | 10.6 | 8.5 | 10.9 | 18.3 |
| 134° | 11.0 | 13.2 | 15.9 | 44.1 | 56.0 | 41.1 | 11.7 | 10.6 | 8.0 | 10.6 | 14.7 |



|      |     |      |     |     |     |     |     |     |      |     |      |
|------|-----|------|-----|-----|-----|-----|-----|-----|------|-----|------|
| 178° | 8.9 | 10.1 | 8.3 | 7.4 | 7.4 | 7.6 | 7.8 | 8.7 | 11.3 | 9.0 | 10.4 |
| 179° | 8.9 | 10.1 | 8.3 | 7.4 | 7.4 | 7.9 | 7.8 | 8.7 | 11.3 | 9.0 | 10.4 |







|     |        |        |        |        |        |        |
|-----|--------|--------|--------|--------|--------|--------|
| 43° | 1865.1 | 1893.6 | 1877.2 | 1794.0 | 1699.2 | 1658.9 |
| 44° | 1837.2 | 1869.1 | 1849.8 | 1762.9 | 1666.3 | 1624.7 |



|     |       |       |       |       |       |      |
|-----|-------|-------|-------|-------|-------|------|
| 88° | 515.2 | 544.7 | 506.9 | 367.7 | 182.4 | 45.8 |
| 89° | 494.3 | 524.0 | 486.6 | 349.0 | 166.8 | 35.5 |



|      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|
| 133° | 56.1 | 73.4 | 56.7 | 20.9 | 15.0 | 11.3 |
| 134° | 49.4 | 67.1 | 51.2 | 18.0 | 14.8 | 11.0 |



|      |     |     |     |     |      |     |
|------|-----|-----|-----|-----|------|-----|
| 178° | 8.3 | 7.4 | 7.9 | 8.6 | 11.0 | 8.9 |
| 179° | 8.3 | 7.4 | 7.9 | 8.6 | 11.0 | 8.9 |



(END OF REPORT)