

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P155611

Luminaire Tested: **TLM-E05-LED-E1-T3-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P155611  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TLM-E05-LED-E1-T3-7050  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3  
Light Source: (105) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

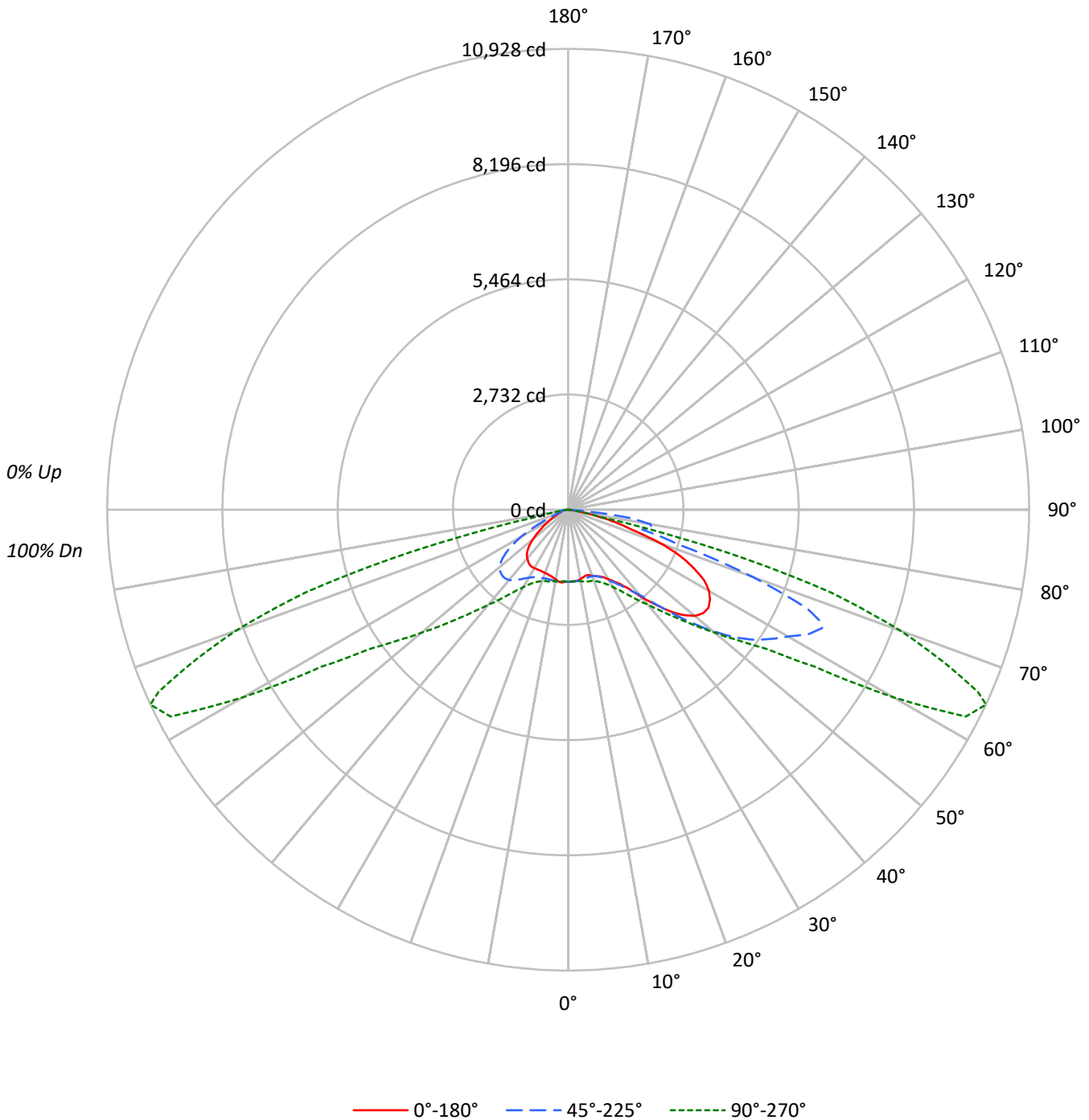
Lumens per Lamp: N/A  
Luminaire Lumens: 15822.1 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Spacing Criteria (0/90/45): 1.97 / 4.22 / 2.62  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 127.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 105 | 99  | 94  | 89  | 102 | 97  | 92  | 87  | 92  | 88  | 84  | 88  | 85  | 82  | 85  | 82  | 79  |
| 2   | 92  | 82  | 73  | 65  | 89  | 80  | 71  | 64  | 76  | 69  | 63  | 72  | 66  | 61  | 69  | 64  | 60  |
| 3   | 81  | 68  | 57  | 49  | 79  | 66  | 56  | 49  | 63  | 55  | 48  | 60  | 53  | 47  | 57  | 51  | 46  |
| 4   | 73  | 57  | 46  | 38  | 70  | 56  | 46  | 38  | 53  | 44  | 37  | 51  | 43  | 36  | 48  | 41  | 36  |
| 5   | 65  | 49  | 38  | 30  | 63  | 48  | 38  | 30  | 46  | 37  | 29  | 44  | 35  | 29  | 42  | 34  | 29  |
| 6   | 59  | 43  | 32  | 24  | 57  | 42  | 32  | 24  | 40  | 31  | 24  | 38  | 30  | 24  | 36  | 29  | 23  |
| 7   | 54  | 38  | 28  | 20  | 52  | 37  | 27  | 20  | 35  | 27  | 20  | 34  | 26  | 20  | 32  | 25  | 20  |
| 8   | 50  | 34  | 24  | 17  | 48  | 33  | 24  | 17  | 32  | 23  | 17  | 30  | 23  | 17  | 29  | 22  | 17  |
| 9   | 46  | 31  | 21  | 15  | 45  | 30  | 21  | 15  | 29  | 20  | 15  | 28  | 20  | 15  | 27  | 20  | 14  |
| 10  | 43  | 28  | 19  | 13  | 42  | 27  | 19  | 13  | 26  | 18  | 13  | 25  | 18  | 13  | 24  | 18  | 13  |

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

|     | 0°     | 90°    | 180°  |
|-----|--------|--------|-------|
| 0°  | 22111  | 22111  | 22111 |
| 5°  | 22196  | 22174  | 22530 |
| 10° | 22002  | 22678  | 22138 |
| 15° | 21675  | 23673  | 21813 |
| 20° | 23012  | 24853  | 22021 |
| 25° | 24961  | 27261  | 22709 |
| 30° | 28452  | 31705  | 23996 |
| 35° | 34114  | 38879  | 25234 |
| 40° | 45687  | 49769  | 25536 |
| 45° | 62416  | 66275  | 24998 |
| 50° | 78979  | 91504  | 21979 |
| 55° | 91756  | 130270 | 17478 |
| 60° | 99980  | 230392 | 13262 |
| 65° | 100918 | 335339 | 10022 |
| 70° | 88450  | 317613 | 8365  |
| 75° | 58439  | 192204 | 8568  |
| 80° | 21329  | 19545  | 10090 |
| 85° | 3556   | 12975  | 11190 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 163.3   | 1.0       |
| 10°-20°   | 482.0   | 3.0       |
| 20°-30°   | 828.3   | 5.2       |
| 30°-40°   | 1345.0  | 8.5       |
| 40°-50°   | 2245.4  | 14.2      |
| 50°-60°   | 3535.8  | 22.3      |
| 60°-70°   | 4821.4  | 30.5      |
| 70°-80°   | 2087.1  | 13.2      |
| 80°-90°   | 313.8   | 2.0       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-30°    | 1473.6  | 9.3       |
| 0°-40°    | 2818.6  | 17.8      |
| 0°-60°    | 8599.8  | 54.4      |
| 0°-90°    | 15822.1 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 15822.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°   | 135° | 180° | Flux |
|-----|------|------|-------|------|------|------|
| 0°  | 1705 | 1705 | 1705  | 1705 | 1705 |      |
| 5°  | 1705 | 1708 | 1703  | 1724 | 1731 | 162  |
| 15° | 1614 | 1681 | 1763  | 1712 | 1625 | 464  |
| 25° | 1744 | 1755 | 1905  | 1768 | 1587 | 817  |
| 35° | 2155 | 2203 | 2456  | 2021 | 1594 | 1396 |
| 45° | 3403 | 3448 | 3614  | 2211 | 1363 | 2616 |
| 55° | 4058 | 5375 | 5762  | 1821 | 773  | 3579 |
| 65° | 3289 | 6644 | 10928 | 640  | 327  | 3193 |
| 75° | 1166 | 1816 | 3836  | 173  | 171  | 1247 |
| 85° | 24   | 404  | 87    | 120  | 75   | 63   |
| 90° | 0    | 0    | 0     | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1705.0 | 1705.0 | 1705.0 | 1705.0 | 1705.0 | 1705.0 | 1705.0 | 1705.0 | 1705.0 | 1705.0 | 1705.0 |
| 2.5°  | 1711.9 | 1718.7 | 1711.9 | 1713.6 | 1715.3 | 1713.6 | 1711.9 | 1711.9 | 1706.8 | 1710.2 | 1713.6 |
| 5°    | 1705.0 | 1710.2 | 1708.5 | 1710.2 | 1711.9 | 1710.2 | 1708.5 | 1710.2 | 1706.8 | 1708.5 | 1713.6 |
| 7.5°  | 1696.5 | 1694.8 | 1696.5 | 1699.9 | 1703.3 | 1703.3 | 1703.3 | 1705.0 | 1703.3 | 1703.3 | 1708.5 |
| 10°   | 1670.8 | 1672.6 | 1676.0 | 1681.1 | 1682.8 | 1687.9 | 1687.9 | 1693.1 | 1694.8 | 1698.2 | 1705.0 |
| 12.5° | 1638.3 | 1640.1 | 1643.5 | 1646.9 | 1655.5 | 1664.0 | 1664.0 | 1676.0 | 1681.1 | 1689.7 | 1701.6 |
| 15°   | 1614.4 | 1616.1 | 1619.5 | 1623.0 | 1629.8 | 1638.3 | 1643.5 | 1657.2 | 1665.7 | 1681.1 | 1698.2 |
| 17.5° | 1628.1 | 1626.4 | 1629.8 | 1631.5 | 1631.5 | 1638.3 | 1638.3 | 1648.6 | 1658.9 | 1672.6 | 1694.8 |
| 20°   | 1667.4 | 1667.4 | 1670.8 | 1670.8 | 1669.1 | 1672.6 | 1665.7 | 1665.7 | 1667.4 | 1674.3 | 1689.7 |
| 22.5° | 1706.8 | 1705.0 | 1711.9 | 1715.3 | 1717.0 | 1722.1 | 1715.3 | 1713.6 | 1705.0 | 1699.9 | 1705.0 |
| 25°   | 1744.4 | 1742.7 | 1751.2 | 1756.4 | 1764.9 | 1770.0 | 1770.0 | 1770.0 | 1763.2 | 1754.6 | 1749.5 |
| 27.5° | 1802.5 | 1802.5 | 1811.1 | 1816.2 | 1823.0 | 1833.3 | 1838.4 | 1838.4 | 1840.1 | 1828.2 | 1819.6 |
| 30°   | 1900.0 | 1901.7 | 1903.4 | 1910.3 | 1917.1 | 1920.5 | 1927.4 | 1932.5 | 1937.6 | 1930.8 | 1917.1 |
| 32.5° | 2016.3 | 2006.0 | 2006.0 | 2016.3 | 2024.8 | 2035.1 | 2038.5 | 2045.4 | 2055.6 | 2050.5 | 2048.8 |
| 35°   | 2154.8 | 2151.4 | 2148.0 | 2151.4 | 2161.7 | 2173.6 | 2187.3 | 2199.3 | 2192.4 | 2202.7 | 2197.6 |
| 37.5° | 2360.0 | 2363.5 | 2365.2 | 2365.2 | 2363.5 | 2366.9 | 2373.7 | 2385.7 | 2382.3 | 2385.7 | 2392.5 |
| 40°   | 2698.7 | 2686.7 | 2674.7 | 2676.4 | 2659.3 | 2662.7 | 2635.4 | 2647.4 | 2649.1 | 2637.1 | 2642.2 |
| 42.5° | 3037.3 | 3044.1 | 3049.2 | 3062.9 | 3051.0 | 3044.1 | 3018.5 | 3018.5 | 3004.8 | 2992.8 | 2989.4 |
| 45°   | 3403.2 | 3416.9 | 3418.6 | 3446.0 | 3435.7 | 3458.0 | 3476.8 | 3471.7 | 3449.4 | 3447.7 | 3423.8 |
| 47.5° | 3695.7 | 3717.9 | 3741.9 | 3774.4 | 3800.0 | 3849.6 | 3907.8 | 3936.8 | 3953.9 | 3967.6 | 3940.2 |
| 50°   | 3914.6 | 3924.9 | 3986.4 | 4037.7 | 4094.2 | 4176.2 | 4256.6 | 4360.9 | 4444.7 | 4484.1 | 4521.7 |
| 52.5° | 4032.6 | 4058.2 | 4124.9 | 4205.3 | 4304.5 | 4427.6 | 4557.6 | 4723.5 | 4867.2 | 4962.9 | 5048.4 |
| 55°   | 4058.2 | 4083.9 | 4159.1 | 4261.8 | 4396.9 | 4562.7 | 4749.2 | 4974.9 | 5190.4 | 5375.1 | 5554.7 |
| 57.5° | 3986.4 | 4015.5 | 4095.9 | 4213.9 | 4372.9 | 4574.7 | 4809.0 | 5104.9 | 5402.4 | 5701.7 | 5966.8 |
| 60°   | 3854.7 | 3890.6 | 3964.2 | 4080.5 | 4256.6 | 4484.1 | 4764.5 | 5135.7 | 5552.9 | 6011.3 | 6519.2 |
| 62.5° | 3637.5 | 3675.2 | 3743.6 | 3871.8 | 4053.1 | 4304.5 | 4629.4 | 5091.2 | 5681.2 | 6402.9 | 7304.2 |
| 65°   | 3288.7 | 3305.8 | 3389.6 | 3519.5 | 3680.3 | 3957.3 | 4314.8 | 4872.3 | 5640.2 | 6644.0 | 7885.6 |
| 66°   | 3131.3 | 3160.4 | 3211.7 | 3316.0 | 3469.9 | 3729.9 | 4089.0 | 4655.1 | 5484.5 | 6560.2 | 7870.2 |
| 67.5° | 2885.1 | 2907.3 | 2941.5 | 3011.6 | 3105.7 | 3297.2 | 3637.5 | 4172.8 | 5009.1 | 6136.1 | 7543.6 |
| 70°   | 2332.7 | 2342.9 | 2389.1 | 2413.1 | 2445.6 | 2508.8 | 2632.0 | 2939.8 | 3591.4 | 4650.0 | 6088.2 |
| 72.5° | 1590.5 | 1619.5 | 1669.1 | 1737.5 | 1826.5 | 1912.0 | 1970.1 | 2009.5 | 2149.7 | 2773.9 | 4056.5 |
| 75°   | 1166.3 | 1197.1 | 1260.4 | 1351.0 | 1506.7 | 1684.5 | 1869.2 | 1954.7 | 1896.6 | 1816.2 | 2259.1 |
| 77.5° | 677.2  | 718.3  | 771.3  | 858.5  | 1002.2 | 1238.2 | 1554.5 | 1835.0 | 2024.8 | 2036.8 | 1934.2 |
| 80°   | 285.6  | 290.7  | 323.2  | 367.7  | 456.6  | 622.5  | 868.8  | 1272.4 | 1693.1 | 1977.0 | 2043.7 |
| 82.5° | 65.0   | 80.4   | 102.6  | 121.4  | 148.8  | 205.2  | 304.4  | 506.2  | 914.9  | 1434.8 | 1870.9 |
| 85°   | 23.9   | 23.9   | 32.5   | 47.9   | 54.7   | 61.6   | 80.4   | 128.3  | 218.9  | 403.6  | 841.4  |
| 87.5° | 0.0    | 1.7    | 3.4    | 3.4    | 6.8    | 8.6    | 13.7   | 18.8   | 17.1   | 15.4   | 51.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°     | 65°     | 67.5°   | 70°     | 75°     | 80°     | 85°     | 90°     | 95°     | 100°    |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1705.0 | 1705.0  | 1705.0  | 1705.0  | 1705.0  | 1705.0  | 1705.0  | 1705.0  | 1705.0  | 1705.0  | 1705.0  |
| 2.5°  | 1710.2 | 1708.5  | 1705.0  | 1705.0  | 1705.0  | 1705.0  | 1701.6  | 1703.3  | 1699.9  | 1701.6  | 1701.6  |
| 5°    | 1708.5 | 1708.5  | 1706.8  | 1703.3  | 1705.0  | 1705.0  | 1706.8  | 1703.3  | 1703.3  | 1705.0  | 1703.3  |
| 7.5°  | 1708.5 | 1706.8  | 1706.8  | 1706.8  | 1708.5  | 1706.8  | 1708.5  | 1708.5  | 1708.5  | 1710.2  | 1710.2  |
| 10°   | 1708.5 | 1708.5  | 1711.9  | 1713.6  | 1713.6  | 1715.3  | 1720.4  | 1720.4  | 1722.1  | 1723.9  | 1727.3  |
| 12.5° | 1710.2 | 1717.0  | 1722.1  | 1727.3  | 1729.0  | 1732.4  | 1741.0  | 1741.0  | 1744.4  | 1749.5  | 1751.2  |
| 15°   | 1711.9 | 1722.1  | 1732.4  | 1735.8  | 1739.2  | 1746.1  | 1754.6  | 1758.1  | 1763.2  | 1768.3  | 1771.7  |
| 17.5° | 1710.2 | 1723.9  | 1735.8  | 1741.0  | 1746.1  | 1754.6  | 1764.9  | 1768.3  | 1775.2  | 1782.0  | 1788.8  |
| 20°   | 1708.5 | 1727.3  | 1746.1  | 1752.9  | 1759.8  | 1771.7  | 1785.4  | 1794.0  | 1800.8  | 1811.1  | 1817.9  |
| 22.5° | 1718.7 | 1741.0  | 1766.6  | 1776.9  | 1788.8  | 1804.2  | 1823.0  | 1833.3  | 1841.9  | 1852.1  | 1857.3  |
| 25°   | 1751.2 | 1768.3  | 1799.1  | 1816.2  | 1831.6  | 1857.3  | 1882.9  | 1894.9  | 1905.1  | 1913.7  | 1915.4  |
| 27.5° | 1805.9 | 1811.1  | 1848.7  | 1870.9  | 1893.2  | 1934.2  | 1965.0  | 1973.5  | 1992.4  | 1999.2  | 1997.5  |
| 30°   | 1894.9 | 1886.3  | 1917.1  | 1951.3  | 1983.8  | 2040.2  | 2077.9  | 2100.1  | 2117.2  | 2117.2  | 2103.5  |
| 32.5° | 2023.1 | 2009.5  | 2018.0  | 2057.3  | 2095.0  | 2177.1  | 2221.5  | 2250.6  | 2262.6  | 2259.1  | 2230.1  |
| 35°   | 2190.7 | 2182.2  | 2177.1  | 2207.8  | 2267.7  | 2363.5  | 2421.6  | 2437.0  | 2455.8  | 2452.4  | 2414.8  |
| 37.5° | 2389.1 | 2382.3  | 2382.3  | 2418.2  | 2476.3  | 2618.3  | 2681.6  | 2691.8  | 2690.1  | 2662.7  | 2592.6  |
| 40°   | 2623.4 | 2620.0  | 2604.6  | 2625.1  | 2674.7  | 2859.4  | 2944.9  | 2958.6  | 2939.8  | 2895.3  | 2813.2  |
| 42.5° | 2960.3 | 2939.8  | 2891.9  | 2903.9  | 2941.5  | 3121.1  | 3232.2  | 3269.9  | 3251.0  | 3206.6  | 3073.2  |
| 45°   | 3399.8 | 3377.6  | 3297.2  | 3287.0  | 3307.5  | 3464.8  | 3608.5  | 3617.0  | 3613.6  | 3557.2  | 3399.8  |
| 47.5° | 3916.3 | 3882.1  | 3796.6  | 3769.2  | 3762.4  | 3907.8  | 4046.3  | 4060.0  | 4051.4  | 3967.6  | 3757.3  |
| 50°   | 4475.5 | 4425.9  | 4369.5  | 4350.7  | 4323.3  | 4427.6  | 4567.9  | 4569.6  | 4535.4  | 4419.1  | 4222.4  |
| 52.5° | 5072.4 | 5055.3  | 5045.0  | 5026.2  | 5014.2  | 5104.9  | 5190.4  | 5139.1  | 5087.8  | 4966.4  | 4795.3  |
| 55°   | 5674.4 | 5744.5  | 5816.3  | 5823.1  | 5843.7  | 5941.2  | 5939.4  | 5799.2  | 5761.6  | 5694.9  | 5525.6  |
| 57.5° | 6314.0 | 6573.9  | 6799.7  | 6869.8  | 6938.2  | 7119.5  | 7102.4  | 6963.8  | 6916.0  | 6833.9  | 6693.6  |
| 60°   | 7184.4 | 7885.6  | 8537.2  | 8692.8  | 8800.6  | 9017.8  | 8997.2  | 8783.5  | 8882.7  | 8875.8  | 8694.5  |
| 62.5° | 8403.8 | 9570.1  | 10546.7 | 10786.1 | 10861.3 | 10885.3 | 10755.3 | 10524.4 | 10621.9 | 10731.4 | 10173.8 |
| 65°   | 9229.8 | 10601.4 | 11603.5 | 11788.2 | 11798.5 | 11512.9 | 11223.9 | 10952.0 | 10928.0 | 10834.0 | 10037.0 |
| 66°   | 9248.6 | 10652.7 | 11658.3 | 11837.8 | 11774.6 | 11384.6 | 11018.7 | 10745.0 | 10627.0 | 10420.1 | 9594.1  |
| 67.5° | 8916.9 | 10332.9 | 11415.4 | 11605.3 | 11466.7 | 10914.3 | 10409.8 | 10057.5 | 9826.7  | 9491.5  | 8762.9  |
| 70°   | 7488.9 | 8892.9  | 10226.9 | 10580.9 | 10625.3 | 9801.0  | 9101.6  | 8687.7  | 8376.4  | 7916.4  | 7288.8  |
| 72.5° | 5568.3 | 6837.3  | 8013.9  | 8352.5  | 8525.2  | 7866.8  | 7276.8  | 6962.1  | 6536.3  | 6052.3  | 5606.0  |
| 75°   | 3490.5 | 4386.6  | 5175.0  | 5412.7  | 5250.2  | 4740.6  | 4386.6  | 4254.9  | 3835.9  | 3546.9  | 3343.4  |
| 77.5° | 1995.8 | 2276.2  | 2339.5  | 2248.9  | 2057.3  | 1575.1  | 1120.2  | 829.4   | 720.0   | 796.9   | 879.0   |
| 80°   | 1947.9 | 1785.4  | 1422.9  | 1251.8  | 1133.8  | 779.8   | 458.3   | 314.7   | 261.7   | 268.5   | 290.7   |
| 82.5° | 2110.4 | 2264.3  | 1864.1  | 1520.3  | 1275.8  | 861.9   | 475.4   | 253.1   | 171.0   | 201.8   | 227.5   |
| 85°   | 1371.6 | 1908.6  | 1718.7  | 1448.5  | 1173.2  | 737.1   | 391.6   | 131.7   | 87.2    | 114.6   | 157.3   |
| 87.5° | 138.5  | 152.2   | 130.0   | 176.1   | 131.7   | 61.6    | 30.8    | 18.8    | 17.1    | 20.5    | 30.8    |
| 90°   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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CATALOG NUMBER: TLM-E05-LED-E1-T3-7050

**CANDELA DISTRIBUTION (continued):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1705.0 | 1705.0 | 1705.0 | 1705.0 | 1705.0 | 1705.0 | 1705.0 | 1705.0 | 1705.0 | 1705.0 | 1705.0 |
| 2.5°  | 1703.3 | 1703.3 | 1705.0 | 1706.8 | 1708.5 | 1710.2 | 1710.2 | 1710.2 | 1710.2 | 1713.6 | 1711.9 |
| 5°    | 1706.8 | 1710.2 | 1713.6 | 1715.3 | 1718.7 | 1718.7 | 1723.9 | 1722.1 | 1722.1 | 1727.3 | 1729.0 |
| 7.5°  | 1713.6 | 1718.7 | 1725.6 | 1723.9 | 1730.7 | 1729.0 | 1732.4 | 1732.4 | 1727.3 | 1729.0 | 1725.6 |
| 10°   | 1729.0 | 1735.8 | 1739.2 | 1734.1 | 1735.8 | 1729.0 | 1727.3 | 1718.7 | 1708.5 | 1703.3 | 1696.5 |
| 12.5° | 1754.6 | 1761.5 | 1761.5 | 1752.9 | 1742.7 | 1727.3 | 1715.3 | 1696.5 | 1681.1 | 1672.6 | 1664.0 |
| 15°   | 1776.9 | 1783.7 | 1782.0 | 1768.3 | 1752.9 | 1729.0 | 1711.9 | 1689.7 | 1667.4 | 1653.7 | 1645.2 |
| 17.5° | 1794.0 | 1797.4 | 1792.3 | 1773.5 | 1756.4 | 1734.1 | 1717.0 | 1693.1 | 1667.4 | 1650.3 | 1634.9 |
| 20°   | 1819.6 | 1816.2 | 1804.2 | 1780.3 | 1761.5 | 1741.0 | 1727.3 | 1706.8 | 1677.7 | 1655.5 | 1633.2 |
| 22.5° | 1857.3 | 1843.6 | 1821.3 | 1795.7 | 1776.9 | 1758.1 | 1744.4 | 1722.1 | 1693.1 | 1665.7 | 1640.1 |
| 25°   | 1906.8 | 1879.5 | 1848.7 | 1821.3 | 1804.2 | 1783.7 | 1768.3 | 1744.4 | 1713.6 | 1682.8 | 1652.0 |
| 27.5° | 1978.7 | 1930.8 | 1891.5 | 1867.5 | 1848.7 | 1823.0 | 1804.2 | 1773.5 | 1741.0 | 1705.0 | 1670.8 |
| 30°   | 2059.1 | 1994.1 | 1956.4 | 1937.6 | 1917.1 | 1889.7 | 1860.7 | 1821.3 | 1783.7 | 1744.4 | 1703.3 |
| 32.5° | 2163.4 | 2084.7 | 2048.8 | 2030.0 | 2002.6 | 1968.4 | 1934.2 | 1889.7 | 1836.7 | 1785.4 | 1735.8 |
| 35°   | 2300.2 | 2219.8 | 2182.2 | 2153.1 | 2115.5 | 2071.0 | 2021.4 | 1961.6 | 1889.7 | 1821.3 | 1758.1 |
| 37.5° | 2447.3 | 2360.0 | 2324.1 | 2293.3 | 2236.9 | 2178.8 | 2108.6 | 2021.4 | 1923.9 | 1833.3 | 1754.6 |
| 40°   | 2633.7 | 2553.3 | 2507.1 | 2454.1 | 2387.4 | 2286.5 | 2177.1 | 2050.5 | 1925.7 | 1814.5 | 1722.1 |
| 42.5° | 2869.7 | 2789.3 | 2720.9 | 2637.1 | 2520.8 | 2365.2 | 2209.5 | 2045.4 | 1894.9 | 1768.3 | 1669.1 |
| 45°   | 3182.6 | 3085.2 | 2967.2 | 2820.1 | 2632.0 | 2414.8 | 2211.3 | 2012.9 | 1836.7 | 1696.5 | 1590.5 |
| 47.5° | 3565.7 | 3416.9 | 3223.7 | 2975.7 | 2705.5 | 2428.4 | 2183.9 | 1947.9 | 1746.1 | 1593.9 | 1475.9 |
| 50°   | 4020.6 | 3786.3 | 3468.2 | 3104.0 | 2743.1 | 2407.9 | 2115.5 | 1850.4 | 1617.8 | 1455.4 | 1315.1 |
| 52.5° | 4540.5 | 4157.4 | 3688.8 | 3196.3 | 2741.4 | 2339.5 | 1999.2 | 1703.3 | 1450.2 | 1269.0 | 1135.6 |
| 55°   | 5151.0 | 4581.6 | 3916.3 | 3264.7 | 2693.5 | 2213.0 | 1821.3 | 1496.4 | 1243.3 | 1075.7 | 952.6  |
| 57.5° | 6045.5 | 5269.1 | 4313.1 | 3370.8 | 2597.8 | 2018.0 | 1580.2 | 1248.4 | 1026.1 | 867.1  | 762.7  |
| 60°   | 7680.4 | 6416.6 | 5027.9 | 3584.5 | 2450.7 | 1732.4 | 1298.0 | 983.4  | 796.9  | 668.7  | 598.6  |
| 62.5° | 8911.7 | 7304.2 | 5414.4 | 3536.6 | 2154.8 | 1380.1 | 962.8  | 716.6  | 586.6  | 499.4  | 454.9  |
| 65°   | 8735.6 | 7028.8 | 5002.3 | 3045.8 | 1689.7 | 973.1  | 639.6  | 487.4  | 403.6  | 362.6  | 336.9  |
| 66°   | 8337.1 | 6669.7 | 4644.8 | 2741.4 | 1460.5 | 808.9  | 526.7  | 408.7  | 347.2  | 318.1  | 301.0  |
| 67.5° | 7581.2 | 6002.7 | 4005.2 | 2247.2 | 1121.9 | 586.6  | 396.8  | 323.2  | 282.2  | 270.2  | 258.2  |
| 70°   | 6302.0 | 4786.8 | 2811.5 | 1308.3 | 572.9  | 326.6  | 251.4  | 225.7  | 215.5  | 213.8  | 210.4  |
| 72.5° | 4829.5 | 3387.9 | 1655.5 | 619.1  | 297.6  | 217.2  | 195.0  | 186.4  | 183.0  | 183.0  | 184.7  |
| 75°   | 2960.3 | 1903.4 | 732.0  | 302.7  | 208.6  | 183.0  | 172.7  | 169.3  | 167.6  | 169.3  | 167.6  |
| 77.5° | 988.5  | 605.4  | 313.0  | 229.2  | 189.8  | 169.3  | 162.5  | 159.0  | 159.0  | 159.0  | 159.0  |
| 80°   | 302.7  | 263.4  | 239.4  | 212.1  | 179.6  | 160.8  | 150.5  | 148.8  | 150.5  | 152.2  | 147.1  |
| 82.5° | 227.5  | 215.5  | 201.8  | 188.1  | 162.5  | 143.7  | 140.2  | 140.2  | 140.2  | 135.1  | 128.3  |
| 85°   | 167.6  | 165.9  | 136.8  | 128.3  | 119.7  | 119.7  | 119.7  | 119.7  | 114.6  | 106.0  | 99.2   |
| 87.5° | 30.8   | 29.1   | 30.8   | 32.5   | 47.9   | 51.3   | 51.3   | 54.7   | 59.9   | 56.4   | 56.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





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**CANDELA DISTRIBUTION (continued):**

|       | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1705.0 | 1705.0 | 1705.0 | 1705.0 | 1705.0 |
| 2.5°  | 1711.9 | 1710.2 | 1715.3 | 1711.9 | 1713.6 |
| 5°    | 1727.3 | 1725.6 | 1729.0 | 1725.6 | 1730.7 |
| 7.5°  | 1722.1 | 1718.7 | 1717.0 | 1718.7 | 1720.4 |
| 10°   | 1686.2 | 1682.8 | 1681.1 | 1679.4 | 1681.1 |
| 12.5° | 1655.5 | 1648.6 | 1648.6 | 1645.2 | 1646.9 |
| 15°   | 1633.2 | 1628.1 | 1626.4 | 1623.0 | 1624.7 |
| 17.5° | 1623.0 | 1614.4 | 1611.0 | 1607.6 | 1607.6 |
| 20°   | 1616.1 | 1605.9 | 1600.7 | 1597.3 | 1595.6 |
| 22.5° | 1616.1 | 1600.7 | 1593.9 | 1590.5 | 1588.8 |
| 25°   | 1623.0 | 1604.1 | 1593.9 | 1588.8 | 1587.0 |
| 27.5° | 1636.6 | 1612.7 | 1600.7 | 1593.9 | 1593.9 |
| 30°   | 1660.6 | 1629.8 | 1612.7 | 1604.1 | 1602.4 |
| 32.5° | 1684.5 | 1643.5 | 1619.5 | 1609.3 | 1605.9 |
| 35°   | 1696.5 | 1643.5 | 1614.4 | 1597.3 | 1593.9 |
| 37.5° | 1682.8 | 1621.2 | 1585.3 | 1559.7 | 1554.5 |
| 40°   | 1640.1 | 1575.1 | 1535.7 | 1511.8 | 1508.4 |
| 42.5° | 1583.6 | 1520.3 | 1474.2 | 1457.1 | 1451.9 |
| 45°   | 1506.7 | 1431.4 | 1385.2 | 1361.3 | 1363.0 |
| 47.5° | 1375.0 | 1298.0 | 1257.0 | 1234.7 | 1238.2 |
| 50°   | 1219.4 | 1144.1 | 1108.2 | 1084.3 | 1089.4 |
| 52.5° | 1048.3 | 979.9  | 945.7  | 933.8  | 930.3  |
| 55°   | 868.8  | 815.8  | 791.8  | 778.1  | 773.0  |
| 57.5° | 704.6  | 667.0  | 649.9  | 632.8  | 634.5  |
| 60°   | 555.8  | 537.0  | 531.9  | 513.1  | 511.3  |
| 62.5° | 437.8  | 425.8  | 420.7  | 407.0  | 408.7  |
| 65°   | 331.8  | 328.4  | 331.8  | 323.2  | 326.6  |
| 66°   | 299.3  | 301.0  | 301.0  | 295.9  | 299.3  |
| 67.5° | 258.2  | 261.7  | 266.8  | 261.7  | 265.1  |
| 70°   | 213.8  | 217.2  | 220.6  | 220.6  | 220.6  |
| 72.5° | 186.4  | 189.8  | 191.5  | 191.5  | 191.5  |
| 75°   | 171.0  | 172.7  | 174.4  | 171.0  | 171.0  |
| 77.5° | 160.8  | 160.8  | 157.3  | 155.6  | 153.9  |
| 80°   | 145.4  | 143.7  | 138.5  | 135.1  | 135.1  |
| 82.5° | 121.4  | 118.0  | 114.6  | 109.5  | 109.5  |
| 85°   | 92.3   | 88.9   | 85.5   | 78.7   | 75.2   |
| 87.5° | 47.9   | 49.6   | 47.9   | 39.3   | 34.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)