

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: P154569

Luminaire Tested: **TLM-E05-LED-E1-T2-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P154569  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)  
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-T2-7030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2  
Light Source: (105) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

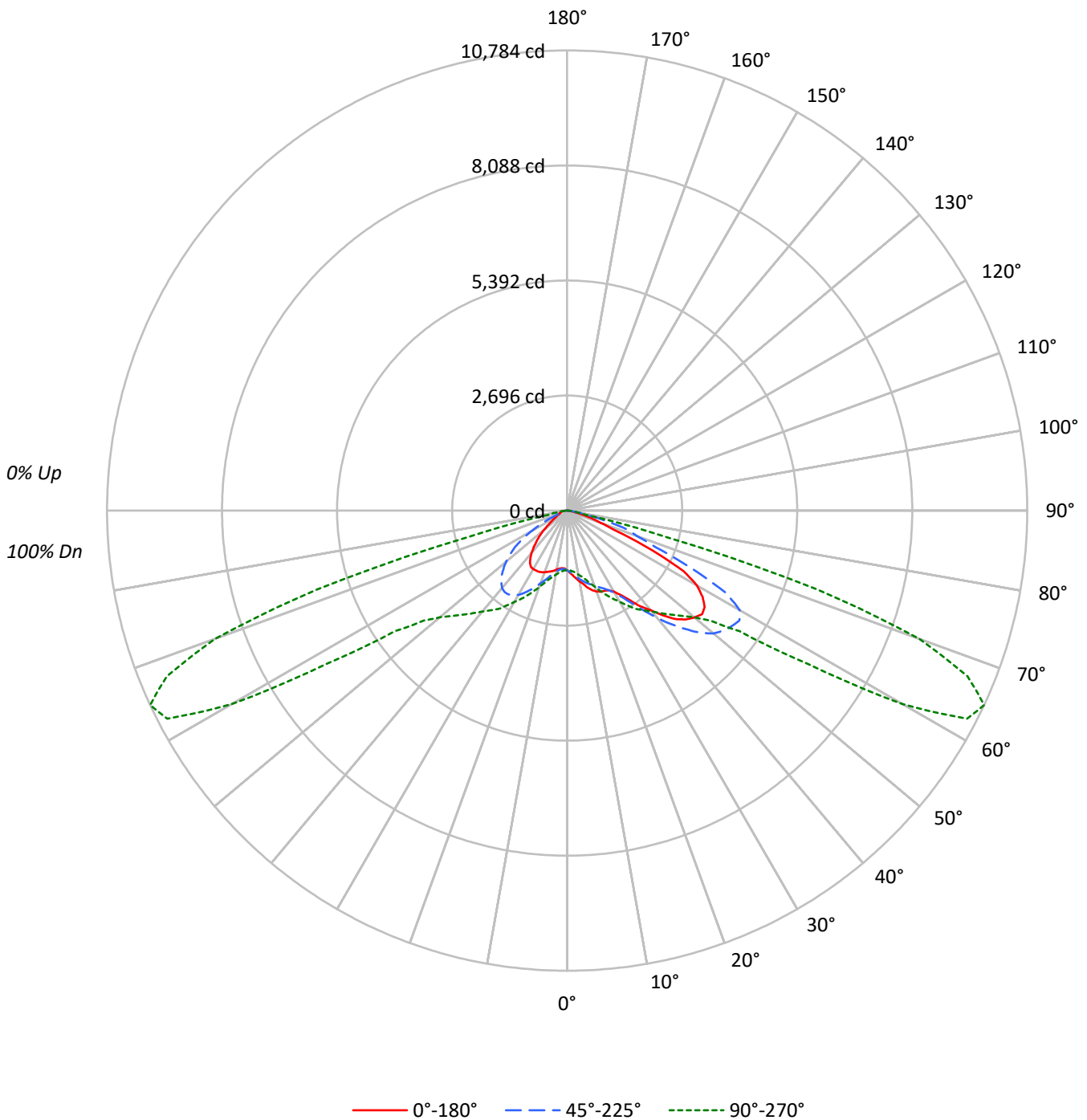
Lumens per Lamp: N/A  
Luminaire Lumens: 13991.9 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Spacing Criteria (0/90/45): 2.21 / 4.51 / 2.52  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 127.3  
Input Voltage (V): NR  
Input Current (Ain): 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  | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 107 | 101 | 96  | 91  | 104 | 98  | 94  | 90  | 94  | 90  | 87  | 90  | 87  | 84  | 86  | 84  | 81  | 79  |
| 2   | 94  | 84  | 76  | 69  | 91  | 82  | 75  | 68  | 78  | 72  | 66  | 75  | 70  | 65  | 72  | 67  | 63  | 61  |
| 3   | 84  | 71  | 61  | 53  | 81  | 69  | 60  | 53  | 66  | 58  | 51  | 63  | 56  | 50  | 60  | 54  | 50  | 47  |
| 4   | 75  | 60  | 50  | 42  | 72  | 59  | 49  | 41  | 56  | 48  | 41  | 54  | 46  | 40  | 51  | 45  | 39  | 37  |
| 5   | 67  | 52  | 42  | 34  | 65  | 51  | 41  | 33  | 49  | 40  | 33  | 46  | 39  | 33  | 44  | 38  | 32  | 30  |
| 6   | 61  | 46  | 35  | 28  | 59  | 45  | 35  | 27  | 43  | 34  | 27  | 41  | 33  | 27  | 39  | 32  | 27  | 24  |
| 7   | 56  | 40  | 30  | 23  | 54  | 40  | 30  | 23  | 38  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 22  | 20  |
| 8   | 52  | 36  | 26  | 20  | 50  | 35  | 26  | 20  | 34  | 26  | 19  | 33  | 25  | 19  | 31  | 24  | 19  | 17  |
| 9   | 48  | 33  | 23  | 17  | 46  | 32  | 23  | 17  | 31  | 23  | 17  | 30  | 22  | 17  | 28  | 22  | 17  | 15  |
| 10  | 45  | 30  | 21  | 15  | 43  | 29  | 21  | 15  | 28  | 20  | 15  | 27  | 20  | 15  | 26  | 19  | 15  | 13  |

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

|     | 0°    | 90°    | 180°  |
|-----|-------|--------|-------|
| 0°  | 18142 | 18142  | 18142 |
| 5°  | 19837 | 18589  | 17637 |
| 10° | 22190 | 20106  | 18422 |
| 15° | 25139 | 22462  | 19805 |
| 20° | 27878 | 26303  | 21219 |
| 25° | 29689 | 31257  | 22610 |
| 30° | 32780 | 36952  | 23707 |
| 35° | 40585 | 44585  | 24028 |
| 40° | 51516 | 52288  | 21879 |
| 45° | 65972 | 63263  | 18454 |
| 50° | 78592 | 78378  | 14403 |
| 55° | 88970 | 111411 | 10256 |
| 60° | 91086 | 235356 | 8053  |
| 65° | 66985 | 330908 | 6772  |
| 70° | 31805 | 332928 | 6696  |
| 75° | 17317 | 123643 | 8162  |
| 80° | 8185  | 19784  | 10456 |
| 85° | 3854  | 12231  | 12231 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 140.1   | 1.0       |
| 10°-20°   | 481.2   | 3.4       |
| 20°-30°   | 945.3   | 6.8       |
| 30°-40°   | 1570.7  | 11.2      |
| 40°-50°   | 2308.0  | 16.5      |
| 50°-60°   | 3195.4  | 22.8      |
| 60°-70°   | 3814.0  | 27.3      |
| 70°-80°   | 1348.8  | 9.6       |
| 80°-90°   | 188.5   | 1.3       |
| 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°    | 1566.6  | 11.2      |
| 0°-40°    | 3137.3  | 22.4      |
| 0°-60°    | 8640.6  | 61.8      |
| 0°-90°    | 13991.9 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 13991.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°   | 135° | 180° | Flux |
|-----|------|------|-------|------|------|------|
| 0°  | 1399 | 1399 | 1399  | 1399 | 1399 |      |
| 5°  | 1524 | 1495 | 1428  | 1373 | 1355 | 151  |
| 15° | 1872 | 1755 | 1673  | 1606 | 1475 | 533  |
| 25° | 2075 | 2012 | 2184  | 2054 | 1580 | 967  |
| 35° | 2564 | 2650 | 2816  | 2399 | 1518 | 1638 |
| 45° | 3597 | 3926 | 3449  | 2174 | 1006 | 2753 |
| 55° | 3935 | 4718 | 4928  | 1486 | 454  | 3448 |
| 65° | 2183 | 3253 | 10784 | 460  | 221  | 2128 |
| 75° | 346  | 979  | 2468  | 184  | 163  | 426  |
| 85° | 26   | 53   | 82    | 140  | 82   | 37   |
| 90° | 0    | 0    | 0     | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1398.9 | 1398.9 | 1398.9 | 1398.9 | 1398.9 | 1398.9 | 1398.9 | 1398.9 | 1398.9 | 1398.9 | 1398.9 |
| 2.5°  | 1459.8 | 1461.4 | 1458.3 | 1456.8 | 1452.2 | 1444.6 | 1438.5 | 1432.4 | 1432.4 | 1432.4 | 1427.9 |
| 5°    | 1523.8 | 1526.8 | 1520.7 | 1516.2 | 1502.5 | 1494.9 | 1484.2 | 1476.6 | 1473.5 | 1472.0 | 1467.4 |
| 7.5°  | 1604.5 | 1599.9 | 1590.8 | 1587.7 | 1577.1 | 1560.3 | 1540.5 | 1525.3 | 1525.3 | 1523.8 | 1525.3 |
| 10°   | 1685.1 | 1673.0 | 1668.4 | 1663.8 | 1647.1 | 1625.8 | 1602.9 | 1586.2 | 1584.7 | 1583.1 | 1578.6 |
| 12.5° | 1765.8 | 1761.2 | 1756.7 | 1739.9 | 1723.2 | 1689.7 | 1663.8 | 1647.1 | 1645.6 | 1647.1 | 1641.0 |
| 15°   | 1872.4 | 1861.7 | 1857.1 | 1828.2 | 1791.7 | 1755.2 | 1723.2 | 1708.0 | 1703.4 | 1704.9 | 1700.4 |
| 17.5° | 1954.6 | 1954.6 | 1943.9 | 1911.9 | 1864.8 | 1814.5 | 1781.0 | 1771.9 | 1770.4 | 1770.4 | 1771.9 |
| 20°   | 2020.0 | 2018.5 | 2007.8 | 1982.0 | 1925.6 | 1875.4 | 1858.7 | 1855.6 | 1854.1 | 1854.1 | 1858.7 |
| 22.5° | 2056.6 | 2053.5 | 2048.9 | 2020.0 | 1975.9 | 1942.4 | 1943.9 | 1953.0 | 1956.1 | 1959.1 | 1965.2 |
| 25°   | 2074.8 | 2070.3 | 2068.7 | 2048.9 | 2017.0 | 2012.4 | 2039.8 | 2064.2 | 2070.3 | 2076.3 | 2084.0 |
| 27.5° | 2105.3 | 2097.7 | 2100.7 | 2093.1 | 2085.5 | 2099.2 | 2155.5 | 2181.4 | 2186.0 | 2193.6 | 2198.1 |
| 30°   | 2189.0 | 2186.0 | 2198.1 | 2201.2 | 2207.3 | 2227.1 | 2278.8 | 2303.2 | 2313.8 | 2313.8 | 2335.1 |
| 32.5° | 2348.8 | 2350.4 | 2353.4 | 2385.4 | 2396.0 | 2409.7 | 2437.1 | 2456.9 | 2458.4 | 2460.0 | 2479.7 |
| 35°   | 2563.5 | 2572.6 | 2598.5 | 2625.9 | 2651.8 | 2650.2 | 2633.5 | 2644.1 | 2636.5 | 2645.7 | 2647.2 |
| 37.5° | 2834.4 | 2822.3 | 2860.3 | 2922.7 | 2962.3 | 2951.6 | 2877.1 | 2828.3 | 2842.0 | 2836.0 | 2831.4 |
| 40°   | 3043.0 | 3056.7 | 3129.7 | 3211.9 | 3242.4 | 3275.9 | 3178.5 | 3094.7 | 3082.6 | 3059.7 | 3046.0 |
| 42.5° | 3330.7 | 3332.2 | 3391.6 | 3452.5 | 3540.8 | 3613.8 | 3551.4 | 3431.2 | 3394.6 | 3367.2 | 3307.9 |
| 45°   | 3597.1 | 3592.5 | 3641.2 | 3715.8 | 3820.8 | 3925.9 | 3948.7 | 3817.8 | 3804.1 | 3755.4 | 3677.8 |
| 47.5° | 3775.2 | 3769.1 | 3802.6 | 3900.0 | 4070.5 | 4242.5 | 4336.9 | 4297.3 | 4271.4 | 4251.6 | 4129.9 |
| 50°   | 3895.4 | 3883.3 | 3921.3 | 4024.8 | 4215.1 | 4480.0 | 4726.6 | 4760.1 | 4749.4 | 4749.4 | 4671.8 |
| 52.5° | 3985.3 | 3985.3 | 4012.7 | 4096.4 | 4289.7 | 4620.0 | 5061.5 | 5230.5 | 5244.2 | 5259.4 | 5254.8 |
| 55°   | 3935.0 | 3942.6 | 4011.1 | 4132.9 | 4336.9 | 4717.5 | 5338.5 | 5708.4 | 5784.6 | 5848.5 | 5921.6 |
| 57.5° | 3763.0 | 3788.9 | 3880.2 | 4079.6 | 4349.1 | 4790.5 | 5646.0 | 6378.2 | 6592.9 | 6778.6 | 7067.8 |
| 60°   | 3511.8 | 3545.3 | 3677.8 | 3932.0 | 4259.3 | 4671.8 | 5754.1 | 6944.5 | 7285.5 | 7690.4 | 8445.4 |
| 62.5° | 3081.0 | 3114.5 | 3243.9 | 3498.1 | 3778.2 | 4216.6 | 5306.6 | 7028.2 | 7573.2 | 8147.1 | 9288.8 |
| 65°   | 2182.9 | 2129.6 | 2278.8 | 2507.1 | 2828.3 | 3253.0 | 4288.2 | 6466.5 | 7250.5 | 8028.3 | 9438.0 |
| 67.5° | 1216.3 | 1211.7 | 1303.0 | 1473.5 | 1781.0 | 2237.7 | 2954.7 | 4959.5 | 5681.0 | 6562.4 | 8293.2 |
| 70°   | 838.8  | 847.9  | 905.7  | 1089.9 | 1344.1 | 1738.4 | 2105.3 | 3114.5 | 3633.6 | 4231.9 | 5933.7 |
| 72.5° | 589.1  | 608.9  | 640.9  | 750.5  | 1010.8 | 1464.4 | 2150.9 | 1861.7 | 2120.5 | 2528.5 | 3568.2 |
| 75°   | 345.6  | 359.3  | 382.1  | 435.4  | 575.4  | 978.8  | 2227.1 | 1636.4 | 1636.4 | 1732.3 | 2158.6 |
| 77.5° | 213.1  | 213.1  | 226.8  | 248.1  | 306.0  | 479.5  | 1586.2 | 1838.9 | 1787.1 | 1732.3 | 1736.9 |
| 80°   | 109.6  | 117.2  | 137.0  | 147.7  | 170.5  | 219.2  | 712.4  | 1715.6 | 1881.5 | 1992.6 | 1915.0 |
| 82.5° | 50.2   | 56.3   | 83.7   | 89.8   | 98.9   | 115.7  | 245.1  | 975.8  | 1307.6 | 1721.7 | 2150.9 |
| 85°   | 25.9   | 25.9   | 44.1   | 54.8   | 59.4   | 53.3   | 89.8   | 394.3  | 596.7  | 910.3  | 1424.8 |
| 87.5° | 4.6    | 4.6    | 7.6    | 9.1    | 13.7   | 12.2   | 15.2   | 22.8   | 38.1   | 41.1   | 42.6   |
| 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):**

|       | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     | 71°     | 72°     | 73°     | 74°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1398.9  | 1398.9  | 1398.9  | 1398.9  | 1398.9  | 1398.9  | 1398.9  | 1398.9  | 1398.9  | 1398.9  | 1398.9  |
| 2.5°  | 1426.3  | 1427.9  | 1426.3  | 1424.8  | 1421.8  | 1421.8  | 1421.8  | 1420.3  | 1420.3  | 1420.3  | 1418.7  |
| 5°    | 1467.4  | 1461.4  | 1462.9  | 1459.8  | 1458.3  | 1456.8  | 1458.3  | 1455.3  | 1452.2  | 1453.7  | 1452.2  |
| 7.5°  | 1519.2  | 1516.2  | 1510.1  | 1510.1  | 1508.6  | 1505.5  | 1505.5  | 1500.9  | 1499.4  | 1496.4  | 1494.9  |
| 10°   | 1577.1  | 1569.4  | 1572.5  | 1569.4  | 1571.0  | 1564.9  | 1561.8  | 1558.8  | 1555.7  | 1555.7  | 1557.3  |
| 12.5° | 1636.4  | 1634.9  | 1630.3  | 1627.3  | 1627.3  | 1622.7  | 1624.2  | 1622.7  | 1618.2  | 1616.6  | 1612.1  |
| 15°   | 1697.3  | 1697.3  | 1692.7  | 1694.3  | 1692.7  | 1689.7  | 1686.7  | 1686.7  | 1683.6  | 1680.6  | 1682.1  |
| 17.5° | 1768.9  | 1768.9  | 1768.9  | 1768.9  | 1770.4  | 1765.8  | 1767.3  | 1764.3  | 1761.2  | 1767.3  | 1767.3  |
| 20°   | 1861.7  | 1867.8  | 1867.8  | 1866.3  | 1873.9  | 1869.3  | 1867.8  | 1875.4  | 1867.8  | 1878.5  | 1876.9  |
| 22.5° | 1968.3  | 1974.4  | 1974.4  | 1980.4  | 1982.0  | 1986.5  | 1989.6  | 1986.5  | 1992.6  | 1998.7  | 1998.7  |
| 25°   | 2087.0  | 2093.1  | 2097.7  | 2106.8  | 2111.4  | 2108.3  | 2109.8  | 2117.5  | 2120.5  | 2126.6  | 2132.7  |
| 27.5° | 2211.8  | 2213.4  | 2219.4  | 2230.1  | 2237.7  | 2240.8  | 2242.3  | 2254.5  | 2256.0  | 2259.0  | 2265.1  |
| 30°   | 2333.6  | 2348.8  | 2345.8  | 2359.5  | 2364.1  | 2368.6  | 2377.8  | 2382.3  | 2393.0  | 2399.1  | 2399.1  |
| 32.5° | 2476.7  | 2473.7  | 2485.8  | 2496.5  | 2504.1  | 2511.7  | 2519.3  | 2525.4  | 2531.5  | 2534.5  | 2549.8  |
| 35°   | 2654.8  | 2660.9  | 2660.9  | 2662.4  | 2680.7  | 2682.2  | 2688.3  | 2702.0  | 2706.6  | 2715.7  | 2721.8  |
| 37.5° | 2831.4  | 2820.7  | 2819.2  | 2819.2  | 2813.1  | 2817.7  | 2819.2  | 2820.7  | 2826.8  | 2828.3  | 2834.4  |
| 40°   | 3029.3  | 3015.6  | 3003.4  | 2995.8  | 2983.6  | 2966.9  | 2963.8  | 2956.2  | 2960.8  | 2959.3  | 2960.8  |
| 42.5° | 3300.2  | 3262.2  | 3233.3  | 3211.9  | 3187.6  | 3169.3  | 3155.6  | 3135.8  | 3122.1  | 3105.4  | 3102.3  |
| 45°   | 3645.8  | 3574.2  | 3525.5  | 3490.5  | 3455.5  | 3405.3  | 3376.4  | 3345.9  | 3318.5  | 3291.1  | 3268.3  |
| 47.5° | 4099.4  | 4023.3  | 3945.7  | 3881.7  | 3826.9  | 3746.3  | 3664.1  | 3618.4  | 3565.1  | 3517.9  | 3484.4  |
| 50°   | 4633.7  | 4542.4  | 4505.9  | 4416.0  | 4347.5  | 4225.8  | 4123.8  | 4049.2  | 3942.6  | 3871.1  | 3808.7  |
| 52.5° | 5180.2  | 5157.4  | 5137.6  | 5061.5  | 4980.8  | 4910.8  | 4821.0  | 4690.1  | 4582.0  | 4499.8  | 4371.9  |
| 55°   | 5924.6  | 5935.3  | 5927.6  | 5886.5  | 5857.6  | 5790.6  | 5754.1  | 5639.9  | 5591.2  | 5472.5  | 5338.5  |
| 57.5° | 7177.4  | 7262.7  | 7370.7  | 7413.4  | 7471.2  | 7416.4  | 7480.3  | 7558.0  | 7364.6  | 7431.6  | 7311.4  |
| 60°   | 8777.3  | 9168.5  | 9401.4  | 9687.6  | 9874.8  | 10136.7 | 10183.9 | 10252.4 | 10232.6 | 10270.6 | 10348.3 |
| 62.5° | 9754.6  | 10218.9 | 10664.9 | 10989.1 | 11336.2 | 11528.0 | 11759.4 | 11920.7 | 12088.2 | 12200.8 | 12168.9 |
| 65°   | 10042.3 | 10520.3 | 10925.2 | 11279.9 | 11590.4 | 11824.8 | 12039.5 | 12241.9 | 12395.7 | 12503.8 | 12567.7 |
| 67.5° | 8985.8  | 9610.0  | 10036.2 | 10451.8 | 10852.1 | 11098.7 | 11278.4 | 11474.7 | 11700.0 | 11887.3 | 11923.8 |
| 70°   | 6761.8  | 7698.0  | 8302.4  | 8800.1  | 9270.5  | 9602.4  | 9853.5  | 10036.2 | 10211.3 | 10345.2 | 10491.4 |
| 72.5° | 4228.8  | 5047.8  | 5738.9  | 6384.3  | 6883.6  | 7340.3  | 7551.9  | 7956.8  | 7903.5  | 8005.5  | 8115.1  |
| 75°   | 2534.5  | 2933.4  | 3313.9  | 3769.1  | 4030.9  | 4411.5  | 4480.0  | 4547.0  | 4512.0  | 4397.8  | 4483.0  |
| 77.5° | 1761.2  | 1826.7  | 1823.7  | 1797.8  | 1770.4  | 1703.4  | 1616.6  | 1569.4  | 1537.5  | 1491.8  | 1510.1  |
| 80°   | 1771.9  | 1630.3  | 1414.2  | 1188.9  | 981.9   | 844.8   | 790.0   | 790.0   | 846.4   | 927.1   | 1007.7  |
| 82.5° | 2117.5  | 1966.7  | 1753.6  | 1467.4  | 1163.0  | 946.8   | 802.2   | 744.4   | 755.0   | 837.2   | 940.8   |
| 85°   | 1427.9  | 1461.4  | 1281.7  | 1172.1  | 928.6   | 723.1   | 605.9   | 491.7   | 435.4   | 449.1   | 508.4   |
| 87.5° | 51.8    | 62.4    | 22.8    | 30.4    | 21.3    | 18.3    | 18.3    | 19.8    | 13.7    | 16.7    | 15.2    |
| 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):**

|       | 76°     | 77°     | 78°     | 79°     | 80°     | 81°     | 82°     | 83°     | 84°     | 85°     | 86°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1398.9  | 1398.9  | 1398.9  | 1398.9  | 1398.9  | 1398.9  | 1398.9  | 1398.9  | 1398.9  | 1398.9  | 1398.9  |
| 2.5°  | 1417.2  | 1415.7  | 1415.7  | 1412.6  | 1412.6  | 1411.1  | 1411.1  | 1409.6  | 1408.1  | 1408.1  | 1406.6  |
| 5°    | 1450.7  | 1449.2  | 1446.1  | 1444.6  | 1441.6  | 1441.6  | 1440.0  | 1437.0  | 1437.0  | 1434.0  | 1432.4  |
| 7.5°  | 1497.9  | 1494.9  | 1491.8  | 1490.3  | 1488.8  | 1484.2  | 1484.2  | 1481.1  | 1481.1  | 1478.1  | 1476.6  |
| 10°   | 1554.2  | 1551.2  | 1548.1  | 1549.7  | 1545.1  | 1543.6  | 1540.5  | 1540.5  | 1536.0  | 1534.4  | 1534.4  |
| 12.5° | 1615.1  | 1613.6  | 1613.6  | 1609.0  | 1607.5  | 1606.0  | 1599.9  | 1599.9  | 1599.9  | 1596.8  | 1598.4  |
| 15°   | 1680.6  | 1682.1  | 1677.5  | 1682.1  | 1680.6  | 1676.0  | 1676.0  | 1676.0  | 1669.9  | 1677.5  | 1671.4  |
| 17.5° | 1768.9  | 1773.4  | 1770.4  | 1771.9  | 1768.9  | 1768.9  | 1770.4  | 1768.9  | 1771.9  | 1771.9  | 1781.0  |
| 20°   | 1878.5  | 1880.0  | 1887.6  | 1884.5  | 1884.5  | 1883.0  | 1886.1  | 1887.6  | 1893.7  | 1890.6  | 1896.7  |
| 22.5° | 1998.7  | 2006.3  | 2007.8  | 2013.9  | 2013.9  | 2012.4  | 2015.5  | 2021.5  | 2024.6  | 2029.2  | 2027.6  |
| 25°   | 2135.7  | 2140.3  | 2146.4  | 2138.8  | 2150.9  | 2150.9  | 2154.0  | 2161.6  | 2163.1  | 2163.1  | 2173.8  |
| 27.5° | 2263.6  | 2275.8  | 2277.3  | 2284.9  | 2280.3  | 2283.4  | 2294.0  | 2298.6  | 2304.7  | 2304.7  | 2307.7  |
| 30°   | 2408.2  | 2412.8  | 2415.8  | 2424.9  | 2423.4  | 2424.9  | 2426.5  | 2434.1  | 2434.1  | 2441.7  | 2449.3  |
| 32.5° | 2557.4  | 2560.4  | 2563.5  | 2572.6  | 2575.6  | 2581.7  | 2578.7  | 2584.8  | 2592.4  | 2593.9  | 2598.5  |
| 35°   | 2735.5  | 2738.5  | 2741.6  | 2755.3  | 2756.8  | 2767.5  | 2770.5  | 2767.5  | 2779.6  | 2772.0  | 2779.6  |
| 37.5° | 2839.0  | 2852.7  | 2855.7  | 2864.9  | 2861.8  | 2869.4  | 2874.0  | 2880.1  | 2883.1  | 2889.2  | 2901.4  |
| 40°   | 2965.3  | 2969.9  | 2979.0  | 2983.6  | 2989.7  | 2991.2  | 2997.3  | 3001.9  | 3006.4  | 3020.1  | 3033.8  |
| 42.5° | 3094.7  | 3100.8  | 3105.4  | 3111.5  | 3119.1  | 3125.2  | 3129.7  | 3143.4  | 3146.5  | 3155.6  | 3181.5  |
| 45°   | 3251.5  | 3248.5  | 3250.0  | 3251.5  | 3254.6  | 3262.2  | 3275.9  | 3289.6  | 3298.7  | 3320.0  | 3341.3  |
| 47.5° | 3446.4  | 3426.6  | 3419.0  | 3406.8  | 3409.8  | 3426.6  | 3429.6  | 3452.5  | 3470.7  | 3490.5  | 3516.4  |
| 50°   | 3741.7  | 3688.4  | 3656.4  | 3624.5  | 3621.4  | 3630.6  | 3642.7  | 3667.1  | 3688.4  | 3714.3  | 3750.8  |
| 52.5° | 4237.9  | 4136.0  | 4072.0  | 3983.7  | 3959.4  | 3954.8  | 3945.7  | 3959.4  | 3965.5  | 4000.5  | 4069.0  |
| 55°   | 5242.6  | 5053.9  | 4932.1  | 4795.1  | 4667.2  | 4629.2  | 4556.1  | 4571.3  | 4556.1  | 4577.4  | 4679.4  |
| 57.5° | 7340.3  | 7189.6  | 7070.9  | 6895.8  | 6676.6  | 6443.7  | 6385.8  | 6146.8  | 6194.0  | 6331.0  | 6242.7  |
| 60°   | 10386.3 | 10331.5 | 10246.3 | 10162.5 | 9862.7  | 9693.7  | 9418.2  | 9387.7  | 9194.4  | 9195.9  | 9069.6  |
| 62.5° | 12091.2 | 12161.3 | 12109.5 | 12085.1 | 12068.4 | 12015.1 | 11878.1 | 11713.7 | 11467.1 | 11289.0 | 11027.2 |
| 65°   | 12578.4 | 12519.0 | 12462.7 | 12455.1 | 12450.5 | 12537.3 | 12557.0 | 12441.4 | 12217.6 | 11940.5 | 11639.1 |
| 67.5° | 12010.6 | 11977.1 | 11980.1 | 11916.2 | 11955.8 | 12106.5 | 12211.5 | 12179.5 | 11974.0 | 11639.1 | 11255.5 |
| 70°   | 10658.8 | 10593.3 | 10660.3 | 10744.0 | 10803.4 | 10890.2 | 10995.2 | 11021.1 | 10833.9 | 10489.8 | 10098.6 |
| 72.5° | 7981.2  | 7991.8  | 8055.8  | 8078.6  | 8317.6  | 8293.2  | 8387.6  | 8080.1  | 7944.6  | 7617.3  | 7416.4  |
| 75°   | 4199.9  | 4131.4  | 4309.5  | 3932.0  | 3776.7  | 3884.8  | 3581.9  | 3291.1  | 3352.0  | 3402.2  | 3039.9  |
| 77.5° | 1484.2  | 1388.3  | 1225.4  | 1160.0  | 965.1   | 817.4   | 668.3   | 602.8   | 567.8   | 549.5   | 526.7   |
| 80°   | 1065.6  | 1096.0  | 1062.5  | 983.4   | 835.7   | 669.8   | 528.2   | 417.1   | 357.7   | 325.8   | 304.5   |
| 82.5° | 1077.8  | 1198.0  | 1251.3  | 1228.5  | 1094.5  | 828.1   | 546.5   | 348.6   | 258.8   | 216.2   | 200.9   |
| 85°   | 578.5   | 633.3   | 608.9   | 513.0   | 461.2   | 275.5   | 188.8   | 126.3   | 106.6   | 97.4    | 89.8    |
| 87.5° | 22.8    | 18.3    | 15.2    | 15.2    | 16.7    | 18.3    | 15.2    | 16.7    | 15.2    | 15.2    | 15.2    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |





TEST NUMBER: P154569

CATALOG NUMBER: TLM-E05-LED-E1-T2-7030

**CANDELA DISTRIBUTION (continued):**

|       | 87°     | 88°     | 89°     | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   |
|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1398.9  | 1398.9  | 1398.9  | 1398.9  | 1398.9 | 1398.9 | 1398.9 | 1398.9 | 1398.9 | 1398.9 | 1398.9 |
| 2.5°  | 1403.5  | 1403.5  | 1403.5  | 1402.0  | 1398.9 | 1391.3 | 1383.7 | 1377.6 | 1373.1 | 1368.5 | 1362.4 |
| 5°    | 1430.9  | 1427.9  | 1427.9  | 1427.9  | 1415.7 | 1403.5 | 1392.9 | 1382.2 | 1373.1 | 1365.5 | 1359.4 |
| 7.5°  | 1476.6  | 1475.1  | 1469.0  | 1467.4  | 1458.3 | 1438.5 | 1426.3 | 1408.1 | 1397.4 | 1386.8 | 1383.7 |
| 10°   | 1531.4  | 1529.9  | 1528.3  | 1526.8  | 1514.6 | 1494.9 | 1479.6 | 1462.9 | 1447.7 | 1432.4 | 1417.2 |
| 12.5° | 1595.3  | 1593.8  | 1592.3  | 1587.7  | 1583.1 | 1572.5 | 1555.7 | 1537.5 | 1519.2 | 1487.2 | 1470.5 |
| 15°   | 1674.5  | 1677.5  | 1674.5  | 1673.0  | 1669.9 | 1671.4 | 1660.8 | 1634.9 | 1606.0 | 1564.9 | 1529.9 |
| 17.5° | 1779.5  | 1776.5  | 1774.9  | 1781.0  | 1779.5 | 1787.1 | 1784.1 | 1750.6 | 1706.4 | 1641.0 | 1580.1 |
| 20°   | 1895.2  | 1895.2  | 1901.3  | 1905.9  | 1919.6 | 1939.3 | 1930.2 | 1889.1 | 1808.4 | 1717.1 | 1637.9 |
| 22.5° | 2033.7  | 2036.8  | 2042.9  | 2039.8  | 2061.1 | 2093.1 | 2096.1 | 2038.3 | 1933.3 | 1806.9 | 1695.8 |
| 25°   | 2178.3  | 2181.4  | 2175.3  | 2184.4  | 2219.4 | 2265.1 | 2274.2 | 2192.0 | 2053.5 | 1889.1 | 1744.5 |
| 27.5° | 2315.3  | 2318.4  | 2318.4  | 2330.6  | 2364.1 | 2441.7 | 2450.8 | 2359.5 | 2175.3 | 1960.7 | 1779.5 |
| 30°   | 2449.3  | 2461.5  | 2464.5  | 2467.6  | 2517.8 | 2625.9 | 2645.7 | 2513.2 | 2281.9 | 2013.9 | 1803.9 |
| 32.5° | 2618.3  | 2622.8  | 2628.9  | 2636.5  | 2694.4 | 2826.8 | 2826.8 | 2645.7 | 2350.4 | 2047.4 | 1808.4 |
| 35°   | 2799.4  | 2800.9  | 2814.6  | 2816.2  | 2898.4 | 3030.8 | 3004.9 | 2755.3 | 2399.1 | 2039.8 | 1774.9 |
| 37.5° | 2909.0  | 2915.1  | 2928.8  | 2947.1  | 3033.8 | 3221.1 | 3161.7 | 2849.7 | 2408.2 | 1989.6 | 1698.8 |
| 40°   | 3044.5  | 3056.7  | 3070.4  | 3088.6  | 3218.0 | 3414.4 | 3294.2 | 2909.0 | 2370.1 | 1890.6 | 1584.7 |
| 42.5° | 3190.6  | 3207.4  | 3228.7  | 3262.2  | 3415.9 | 3584.9 | 3394.6 | 2918.2 | 2283.4 | 1779.5 | 1449.2 |
| 45°   | 3355.0  | 3385.5  | 3409.8  | 3449.4  | 3623.0 | 3732.6 | 3455.5 | 2864.9 | 2173.8 | 1633.4 | 1304.6 |
| 47.5° | 3545.3  | 3569.7  | 3612.3  | 3654.9  | 3828.5 | 3833.0 | 3461.6 | 2761.4 | 2024.6 | 1487.2 | 1150.8 |
| 50°   | 3779.7  | 3795.0  | 3858.9  | 3884.8  | 4047.7 | 3938.1 | 3417.5 | 2621.3 | 1867.8 | 1322.8 | 980.3  |
| 52.5° | 4091.8  | 4113.1  | 4195.3  | 4234.9  | 4350.6 | 4081.2 | 3355.0 | 2469.1 | 1688.2 | 1138.6 | 805.3  |
| 55°   | 4708.3  | 4801.2  | 4859.0  | 4927.5  | 5002.1 | 4405.4 | 3327.6 | 2306.2 | 1485.7 | 925.5  | 637.8  |
| 57.5° | 6439.1  | 6408.7  | 6536.5  | 6691.8  | 6690.3 | 5146.7 | 3492.0 | 2166.2 | 1246.7 | 707.8  | 490.2  |
| 60°   | 9017.8  | 9046.7  | 8981.3  | 9074.1  | 8778.8 | 6066.2 | 3717.3 | 2018.5 | 977.3  | 526.7  | 374.5  |
| 62.5° | 10934.3 | 10766.9 | 10674.0 | 10564.4 | 9914.4 | 6166.6 | 3552.9 | 1715.6 | 710.9  | 369.9  | 287.7  |
| 65°   | 11388.0 | 11191.6 | 10992.2 | 10783.6 | 9803.3 | 5559.3 | 2915.1 | 1258.9 | 459.7  | 254.2  | 228.3  |
| 67.5° | 10940.4 | 10625.3 | 10371.1 | 10156.5 | 8982.8 | 4607.9 | 2131.2 | 773.3  | 263.3  | 205.5  | 194.8  |
| 70°   | 9780.5  | 9431.9  | 9020.9  | 8780.3  | 7564.1 | 3396.1 | 1365.5 | 417.1  | 202.5  | 182.7  | 178.1  |
| 72.5° | 7159.1  | 6873.0  | 6423.9  | 6148.4  | 5431.4 | 2064.2 | 762.6  | 234.4  | 188.8  | 175.1  | 169.0  |
| 75°   | 2788.8  | 2639.6  | 2452.3  | 2467.6  | 2202.7 | 913.4  | 345.6  | 202.5  | 184.2  | 172.0  | 165.9  |
| 77.5° | 479.5   | 467.3   | 432.3   | 432.3   | 491.7  | 333.4  | 229.9  | 204.0  | 182.7  | 169.0  | 158.3  |
| 80°   | 287.7   | 281.6   | 267.9   | 264.9   | 255.7  | 234.4  | 220.7  | 207.0  | 179.6  | 159.8  | 146.1  |
| 82.5° | 188.8   | 181.1   | 176.6   | 175.1   | 190.3  | 205.5  | 207.0  | 205.5  | 170.5  | 138.5  | 118.7  |
| 85°   | 80.7    | 80.7    | 80.7    | 82.2    | 109.6  | 165.9  | 170.5  | 182.7  | 140.0  | 108.1  | 85.2   |
| 87.5° | 13.7    | 16.7    | 16.7    | 18.3    | 19.8   | 36.5   | 45.7   | 59.4   | 47.2   | 45.7   | 41.1   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



TEST NUMBER: P154569

CATALOG NUMBER: TLM-E05-LED-E1-T2-7030

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|
| 0°    | 1398.9 | 1398.9 | 1398.9 |
| 2.5°  | 1360.9 | 1357.8 | 1357.8 |
| 5°    | 1356.3 | 1353.3 | 1354.8 |
| 7.5°  | 1374.6 | 1368.5 | 1370.0 |
| 10°   | 1408.1 | 1402.0 | 1398.9 |
| 12.5° | 1450.7 | 1443.1 | 1443.1 |
| 15°   | 1494.9 | 1476.6 | 1475.1 |
| 17.5° | 1531.4 | 1508.6 | 1505.5 |
| 20°   | 1572.5 | 1542.0 | 1537.5 |
| 22.5° | 1610.5 | 1569.4 | 1563.4 |
| 25°   | 1637.9 | 1587.7 | 1580.1 |
| 27.5° | 1650.1 | 1590.8 | 1584.7 |
| 30°   | 1659.3 | 1592.3 | 1583.1 |
| 32.5° | 1650.1 | 1578.6 | 1571.0 |
| 35°   | 1599.9 | 1522.3 | 1517.7 |
| 37.5° | 1513.1 | 1426.3 | 1420.3 |
| 40°   | 1398.9 | 1307.6 | 1292.4 |
| 42.5° | 1252.8 | 1167.6 | 1150.8 |
| 45°   | 1111.2 | 1013.8 | 1006.2 |
| 47.5° | 959.0  | 866.2  | 870.7  |
| 50°   | 799.2  | 715.5  | 713.9  |
| 52.5° | 647.0  | 573.9  | 569.3  |
| 55°   | 510.0  | 458.2  | 453.6  |
| 57.5° | 403.4  | 376.0  | 371.4  |
| 60°   | 328.8  | 315.1  | 310.5  |
| 62.5° | 264.9  | 260.3  | 258.8  |
| 65°   | 220.7  | 220.7  | 220.7  |
| 67.5° | 191.8  | 193.3  | 193.3  |
| 70°   | 176.6  | 178.1  | 176.6  |
| 72.5° | 170.5  | 175.1  | 175.1  |
| 75°   | 165.9  | 169.0  | 162.9  |
| 77.5° | 162.9  | 164.4  | 153.7  |
| 80°   | 161.4  | 159.8  | 140.0  |
| 82.5° | 140.0  | 135.5  | 118.7  |
| 85°   | 127.9  | 97.4   | 82.2   |
| 87.5° | 65.5   | 45.7   | 35.0   |
| 90°   | 0.0    | 0.0    | 0.0    |

(END OF REPORT)