

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: McGRAW-EDISON

Report Number: P387074

Luminaire Tested: **GWC-SA2D-735-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P387074  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2D-735-U-T4FT-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10802.1 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

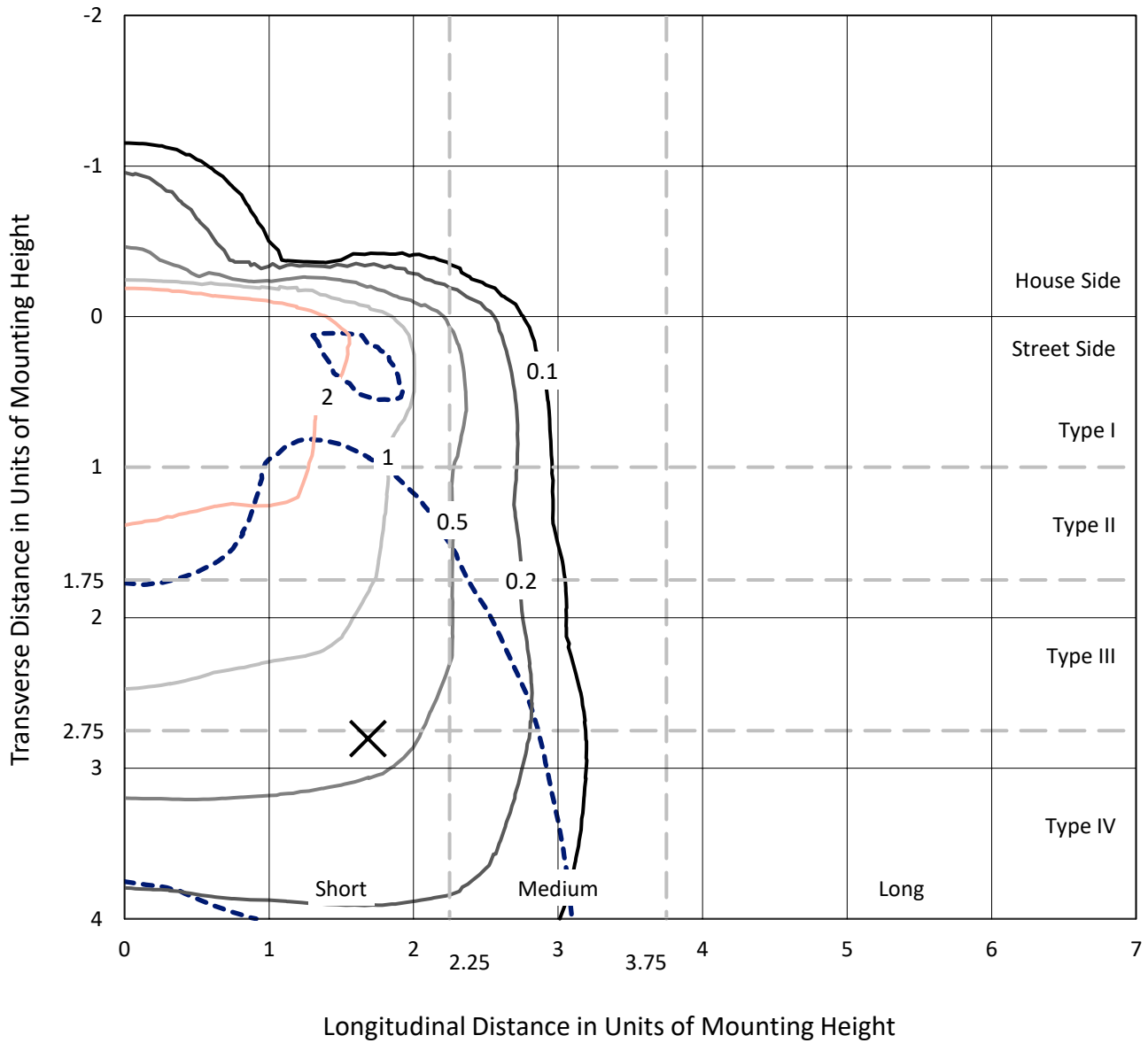
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

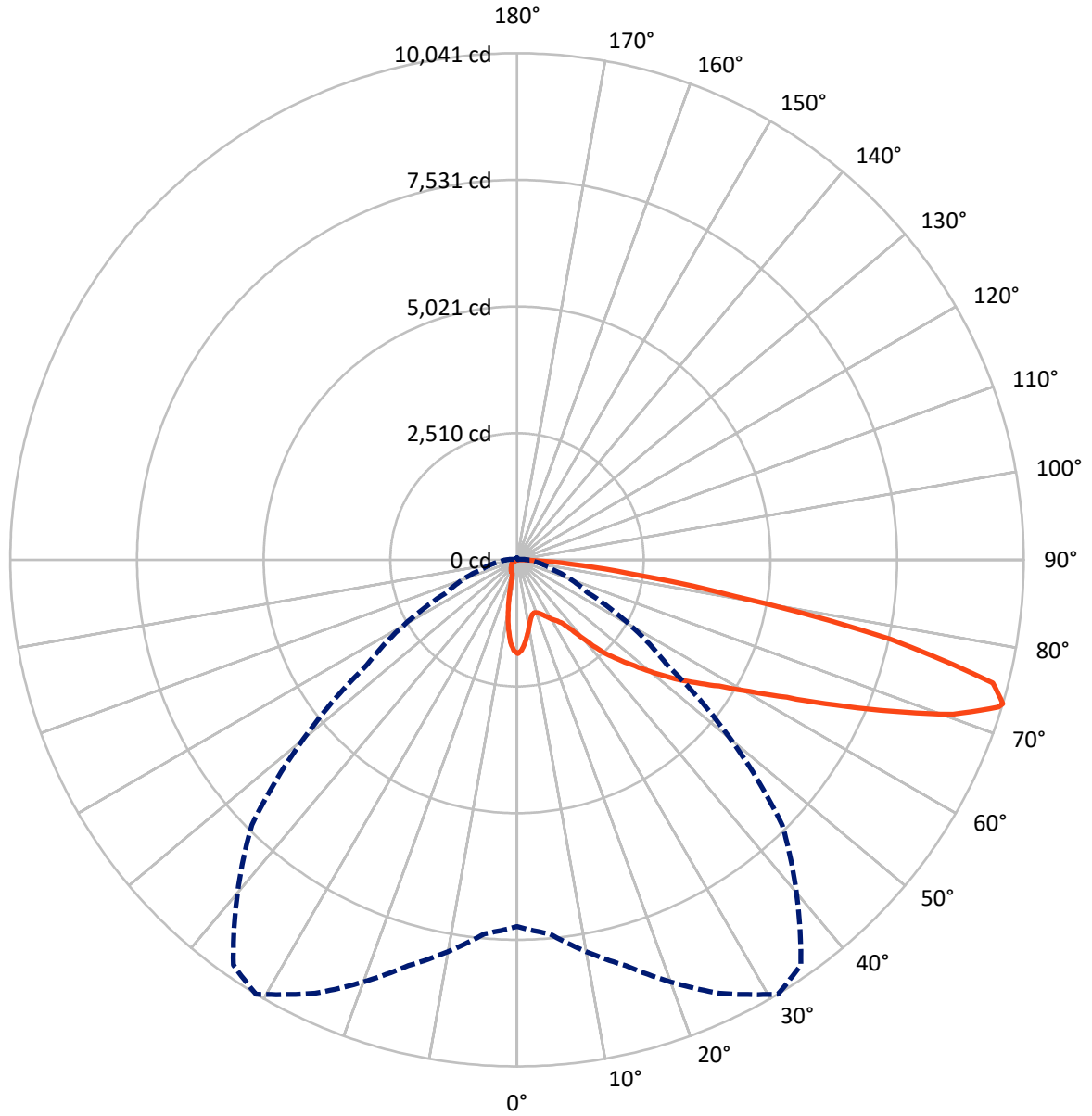
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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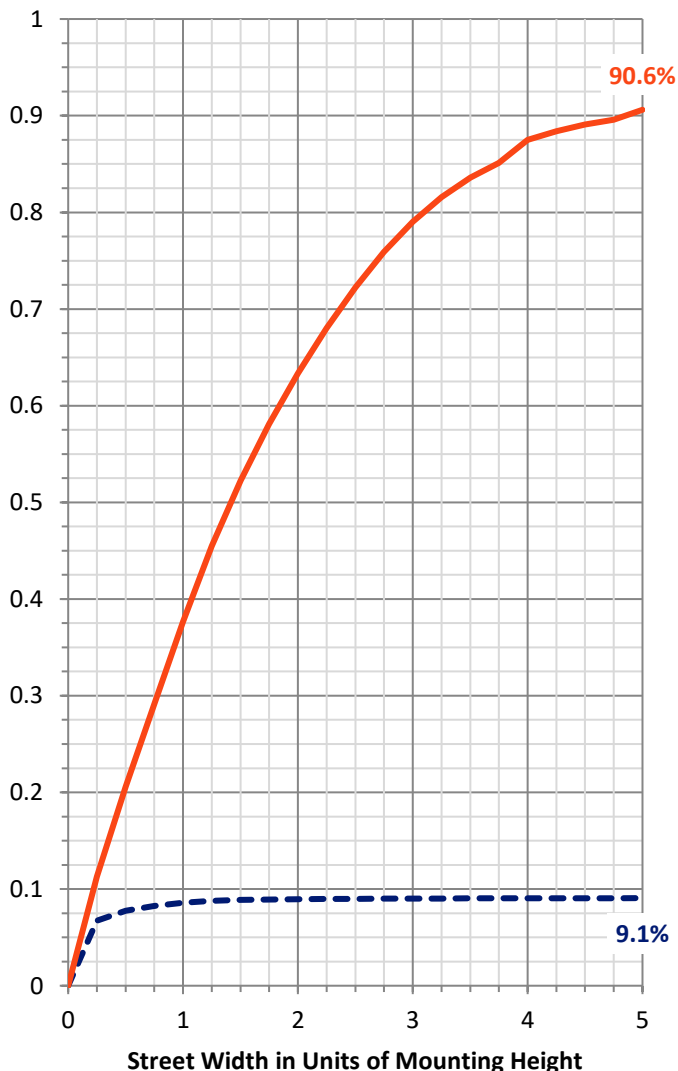
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 984.7    | 0.0    | 984.7   |
|                    | % Fixture | 9.1      | 0.0    | 9.1     |
| <b>Street Side</b> | Lumens    | 9817.4   | 0.0    | 9817.4  |
|                    | % Fixture | 90.9     | 0.0    | 90.9    |
| <b>Total</b>       | Lumens    | 10802.1  | 0.0    | 10802.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 154.1   | 1.4       |
| 10°-20°   | 334.6   | 3.1       |
| 20°-30°   | 501.3   | 4.6       |
| 30°-40°   | 797.6   | 7.4       |
| 40°-50°   | 1424.3  | 13.2      |
| 50°-60°   | 2210.1  | 20.5      |
| 60°-70°   | 2938.0  | 27.2      |
| 70°-80°   | 2209.9  | 20.5      |
| 80°-90°   | 232.2   | 2.1       |
| 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°-90°    | 10802.1 | 100.0     |
| 0°-180°   | 10802.1 | 100.0     |

**Coefficient of Utilization**



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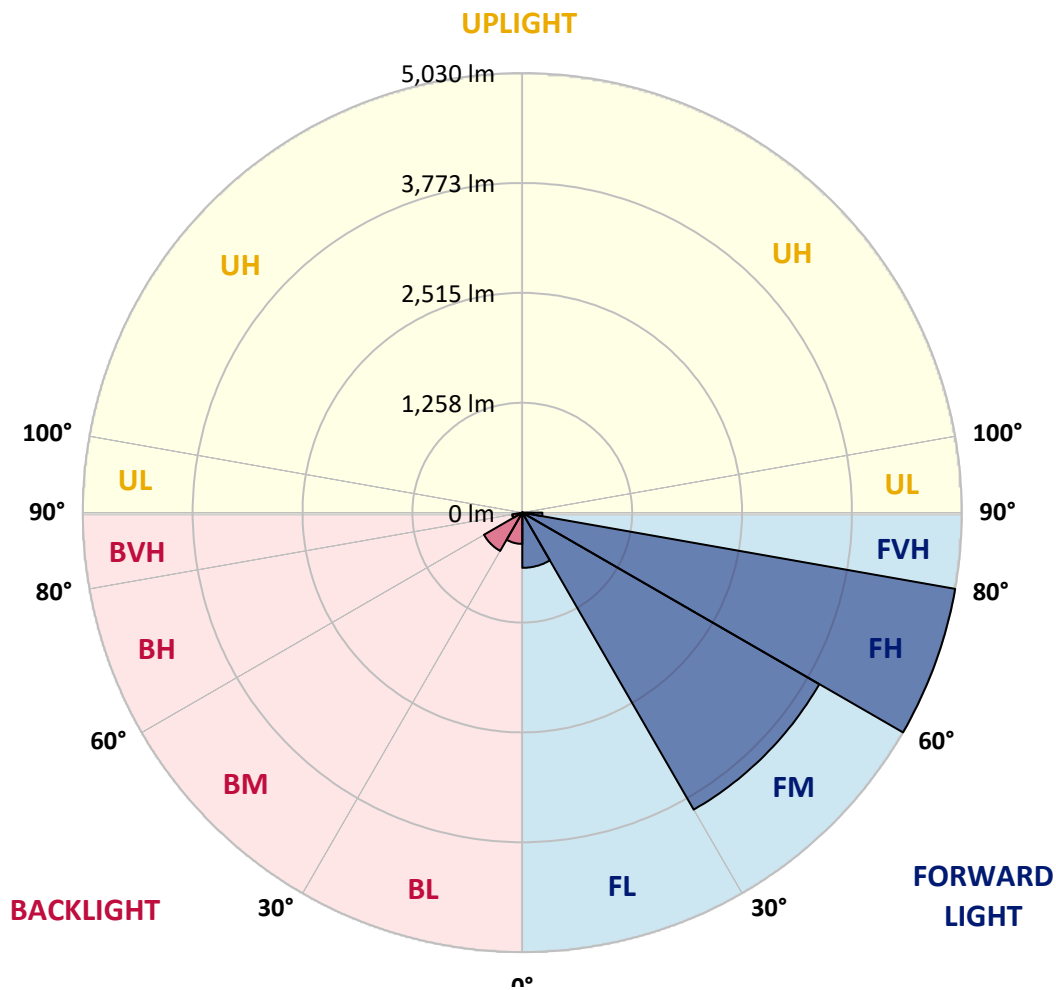
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 631.9  | 5.9       |                         |      |         |
| FM (30°-60°)   | 3925.1 | 36.3      |                         |      |         |
| FH (60°-80°)   | 5030.1 | 46.6      |                         |      | G3/7500 |
| FVH (80°-90°)  | 230.3  | 2.1       |                         |      | G3/500  |
| BL (0°-30°)    | 358.1  | 3.3       | B1/500                  |      |         |
| BM (30°-60°)   | 506.8  | 4.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 117.8  | 1.1       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.0    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 31°     | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| 0°    | 1858.5 | 1858.5 | 1858.5 | 1858.5 | 1858.5  | 1858.5 | 1858.5 | 1858.5 | 1858.5 | 1858.5 | 1858.5 |
| 2.5°  | 1761.3 | 1768.7 | 1776.6 | 1778.2 | 1791.4  | 1791.9 | 1811.0 | 1825.2 | 1839.5 | 1853.2 | 1858.0 |
| 5°    | 1580.5 | 1592.6 | 1606.9 | 1621.2 | 1649.2  | 1660.3 | 1706.8 | 1754.4 | 1799.9 | 1843.2 | 1864.3 |
| 7.5°  | 1387.6 | 1401.3 | 1421.4 | 1456.8 | 1488.0  | 1509.6 | 1583.2 | 1667.7 | 1752.3 | 1832.1 | 1878.0 |
| 10°   | 1211.5 | 1224.2 | 1245.4 | 1282.9 | 1331.0  | 1360.6 | 1459.4 | 1576.8 | 1701.0 | 1822.0 | 1898.7 |
| 12.5° | 1099.5 | 1106.3 | 1118.0 | 1158.2 | 1201.5  | 1234.7 | 1351.0 | 1496.5 | 1658.7 | 1821.5 | 1932.0 |
| 15°   | 1078.9 | 1081.0 | 1071.5 | 1089.4 | 1123.2  | 1155.5 | 1273.3 | 1431.4 | 1626.5 | 1829.9 | 1975.4 |
| 17.5° | 1111.6 | 1110.6 | 1078.9 | 1076.7 | 1103.7  | 1130.1 | 1235.3 | 1386.5 | 1603.7 | 1849.6 | 2031.3 |
| 20°   | 1161.3 | 1157.6 | 1102.7 | 1092.6 | 1121.2  | 1146.0 | 1232.7 | 1369.5 | 1595.3 | 1882.3 | 2099.5 |
| 22.5° | 1227.4 | 1221.0 | 1134.9 | 1124.3 | 1155.0  | 1180.9 | 1265.5 | 1386.0 | 1602.7 | 1926.2 | 2178.8 |
| 25°   | 1309.3 | 1299.8 | 1190.4 | 1178.8 | 1209.9  | 1235.9 | 1324.1 | 1433.0 | 1624.9 | 1979.6 | 2279.3 |
| 27.5° | 1401.9 | 1388.0 | 1279.2 | 1249.0 | 1284.4  | 1311.4 | 1402.3 | 1504.9 | 1659.8 | 2036.1 | 2402.4 |
| 30°   | 1489.0 | 1471.1 | 1372.7 | 1323.0 | 1366.4  | 1396.5 | 1487.0 | 1590.5 | 1715.8 | 2123.3 | 2571.0 |
| 32.5° | 1576.8 | 1556.7 | 1456.2 | 1397.1 | 1436.1  | 1468.9 | 1574.1 | 1708.4 | 1821.0 | 2256.5 | 2795.2 |
| 35°   | 1778.7 | 1757.6 | 1634.4 | 1536.6 | 1536.1  | 1554.6 | 1696.3 | 1869.6 | 1960.0 | 2442.0 | 3062.6 |
| 37.5° | 2118.6 | 2106.4 | 1989.1 | 1803.5 | 1753.8  | 1733.3 | 1862.7 | 2062.1 | 2159.9 | 2697.4 | 3364.4 |
| 40°   | 2490.7 | 2480.2 | 2348.5 | 2180.4 | 2104.8  | 2054.1 | 2101.7 | 2330.0 | 2442.0 | 3009.3 | 3672.7 |
| 42.5° | 2910.9 | 2860.7 | 2626.1 | 2575.8 | 2508.2  | 2469.6 | 2426.7 | 2660.4 | 2788.9 | 3348.7 | 3978.1 |
| 45°   | 3292.6 | 3208.0 | 2903.6 | 2827.4 | 2812.1  | 2821.7 | 2845.4 | 3104.4 | 3178.9 | 3751.9 | 4282.6 |
| 47.5° | 3519.9 | 3453.3 | 3219.7 | 3146.7 | 3142.5  | 3205.4 | 3385.1 | 3606.1 | 3567.4 | 4103.5 | 4550.6 |
| 50°   | 3736.1 | 3675.8 | 3481.9 | 3499.8 | 3519.3  | 3605.0 | 3997.7 | 4122.0 | 3922.2 | 4422.2 | 4796.5 |
| 52.5° | 3911.1 | 3819.1 | 3717.6 | 3818.5 | 3914.7  | 4052.7 | 4629.9 | 4585.0 | 4173.7 | 4675.9 | 5006.8 |
| 55°   | 4012.0 | 3970.3 | 4019.4 | 4120.9 | 4301.7  | 4525.8 | 5226.7 | 4970.3 | 4357.7 | 4907.4 | 5146.8 |
| 57.5° | 4382.0 | 4300.1 | 4397.9 | 4485.6 | 4721.4  | 5034.8 | 5737.8 | 5257.3 | 4490.4 | 5050.7 | 5179.2 |
| 60°   | 4829.7 | 4763.7 | 4821.3 | 4967.1 | 5285.4  | 5653.8 | 6215.7 | 5491.5 | 4559.6 | 5142.6 | 5095.6 |
| 62.5° | 5542.2 | 5455.1 | 5419.1 | 5582.4 | 6004.2  | 6406.5 | 6578.3 | 5653.8 | 4544.3 | 5101.9 | 4809.1 |
| 65°   | 6496.9 | 6406.5 | 6245.8 | 6393.8 | 6930.4  | 7214.2 | 6983.7 | 5688.1 | 4438.5 | 4772.6 | 4085.0 |
| 67.5° | 7474.8 | 7409.3 | 7271.8 | 7521.4 | 8005.5  | 8096.9 | 7412.4 | 5604.6 | 4098.2 | 3869.8 | 2886.1 |
| 70°   | 8120.7 | 8092.7 | 8182.0 | 8733.9 | 9165.8  | 9139.4 | 7805.7 | 5155.9 | 3194.3 | 2379.7 | 1427.7 |
| 72.5° | 7655.0 | 7789.3 | 8449.0 | 9449.6 | 9977.1  | 9761.4 | 7603.7 | 3959.2 | 1825.7 | 915.5  | 412.9  |
| 73°   | 7269.1 | 7440.9 | 8328.9 | 9476.5 | 10041.1 | 9804.8 | 7434.1 | 3634.0 | 1556.2 | 722.6  | 312.9  |
| 75°   | 5057.0 | 5267.9 | 6895.4 | 8825.9 | 9741.9  | 9341.8 | 6196.6 | 2224.3 | 721.0  | 320.3  | 126.3  |
| 77.5° | 2455.3 | 2611.2 | 3796.8 | 6376.9 | 7576.3  | 7298.8 | 3857.6 | 828.8  | 325.6  | 200.4  | 58.1   |
| 80°   | 916.6  | 1019.1 | 1648.2 | 3245.5 | 4378.3  | 4493.0 | 1696.7 | 313.5  | 216.7  | 161.2  | 29.6   |
| 82.5° | 240.0  | 267.4  | 607.9  | 1447.3 | 2243.8  | 2348.5 | 534.9  | 158.0  | 158.6  | 132.6  | 17.9   |
| 85°   | 76.7   | 87.7   | 189.8  | 649.6  | 1057.2  | 928.2  | 139.6  | 76.7   | 115.3  | 98.8   | 10.1   |
| 87.5° | 9.5    | 12.1   | 60.2   | 152.7  | 233.1   | 129.5  | 21.7   | 22.7   | 49.1   | 55.0   | 5.8    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1858.5 | 1858.5 | 1858.5 | 1858.5 | 1858.5 | 1858.5 | 1858.5 | 1858.5 | 1858.5 | 1858.5 | 1858.5 |
| 2.5°  | 1862.7 | 1860.1 | 1860.7 | 1846.8 | 1837.9 | 1819.9 | 1801.5 | 1793.0 | 1784.0 | 1780.2 | 1784.0 |
| 5°    | 1872.3 | 1867.5 | 1853.8 | 1811.4 | 1766.5 | 1708.4 | 1654.0 | 1612.8 | 1560.9 | 1546.6 | 1561.5 |
| 7.5°  | 1887.1 | 1877.6 | 1837.4 | 1751.2 | 1651.4 | 1540.3 | 1415.6 | 1324.6 | 1250.1 | 1202.0 | 1219.4 |
| 10°   | 1908.8 | 1890.8 | 1809.9 | 1663.5 | 1484.8 | 1288.2 | 1111.1 | 973.1  | 875.3  | 835.2  | 833.6  |
| 12.5° | 1945.2 | 1911.4 | 1776.0 | 1549.3 | 1281.3 | 1019.1 | 787.0  | 637.5  | 558.2  | 506.9  | 505.9  |
| 15°   | 1985.4 | 1935.7 | 1733.3 | 1412.4 | 1044.5 | 730.0  | 506.9  | 393.2  | 342.0  | 325.6  | 323.5  |
| 17.5° | 2034.5 | 1963.7 | 1677.8 | 1243.8 | 796.6  | 483.7  | 330.9  | 298.2  | 296.0  | 294.4  | 294.4  |
| 20°   | 2096.4 | 1997.1 | 1606.4 | 1050.8 | 565.0  | 323.0  | 281.3  | 283.3  | 284.4  | 282.3  | 282.8  |
| 22.5° | 2168.3 | 2030.9 | 1521.3 | 843.7  | 382.1  | 270.1  | 269.0  | 271.7  | 272.7  | 271.7  | 272.2  |
| 25°   | 2251.8 | 2070.0 | 1417.6 | 626.4  | 275.9  | 256.4  | 259.0  | 262.7  | 265.4  | 265.4  | 265.4  |
| 27.5° | 2355.4 | 2117.5 | 1292.9 | 437.1  | 238.4  | 242.1  | 249.5  | 256.4  | 260.0  | 261.2  | 261.2  |
| 30°   | 2490.1 | 2176.8 | 1143.3 | 299.7  | 216.7  | 223.1  | 236.8  | 250.1  | 256.9  | 258.0  | 258.5  |
| 32.5° | 2660.4 | 2243.4 | 969.9  | 221.5  | 198.2  | 203.0  | 217.8  | 240.0  | 253.2  | 255.3  | 255.3  |
| 35°   | 2855.5 | 2320.5 | 783.4  | 193.0  | 185.0  | 186.6  | 198.2  | 223.6  | 246.9  | 252.7  | 253.2  |
| 37.5° | 3069.0 | 2396.6 | 595.8  | 180.3  | 173.9  | 173.9  | 182.3  | 204.0  | 231.6  | 249.5  | 251.6  |
| 40°   | 3268.2 | 2442.6 | 417.6  | 170.2  | 163.8  | 163.8  | 171.3  | 187.1  | 213.1  | 240.0  | 245.8  |
| 42.5° | 3452.2 | 2458.5 | 290.7  | 160.7  | 154.3  | 155.9  | 162.2  | 175.0  | 194.5  | 221.5  | 226.8  |
| 45°   | 3641.5 | 2455.9 | 211.9  | 149.6  | 144.9  | 149.6  | 154.3  | 163.8  | 178.1  | 193.4  | 194.5  |
| 47.5° | 3784.2 | 2433.6 | 168.1  | 139.0  | 135.8  | 142.2  | 146.5  | 152.7  | 160.7  | 159.6  | 159.6  |
| 50°   | 3917.9 | 2379.7 | 135.3  | 124.8  | 126.8  | 134.2  | 136.4  | 138.5  | 139.0  | 129.0  | 127.9  |
| 52.5° | 4019.4 | 2295.7 | 108.4  | 109.4  | 117.9  | 125.3  | 123.2  | 120.0  | 114.7  | 102.6  | 100.4  |
| 55°   | 4053.2 | 2133.9 | 85.1   | 90.4   | 104.6  | 114.1  | 106.2  | 99.4   | 89.3   | 79.3   | 77.2   |
| 57.5° | 3992.0 | 1925.1 | 69.2   | 70.3   | 88.3   | 96.2   | 87.2   | 79.3   | 68.2   | 59.7   | 58.1   |
| 60°   | 3861.8 | 1693.1 | 57.1   | 52.9   | 68.2   | 75.1   | 69.2   | 61.3   | 51.3   | 44.9   | 44.4   |
| 62.5° | 3603.9 | 1445.7 | 47.1   | 41.2   | 51.8   | 57.6   | 53.9   | 48.1   | 39.6   | 35.4   | 34.9   |
| 65°   | 3061.6 | 1156.6 | 38.0   | 33.3   | 40.2   | 44.9   | 41.8   | 37.6   | 31.2   | 28.0   | 27.5   |
| 67.5° | 2137.1 | 781.8  | 31.2   | 27.5   | 31.8   | 35.4   | 32.8   | 30.6   | 24.8   | 24.3   | 24.8   |
| 70°   | 1030.8 | 376.9  | 25.9   | 22.2   | 24.8   | 27.5   | 26.4   | 24.8   | 23.8   | 27.5   | 31.8   |
| 72.5° | 295.4  | 126.3  | 20.6   | 18.5   | 20.1   | 21.7   | 22.7   | 22.2   | 25.9   | 33.3   | 38.6   |
| 73°   | 227.3  | 102.0  | 19.5   | 17.5   | 19.1   | 21.1   | 22.2   | 21.7   | 26.4   | 33.8   | 38.6   |
| 75°   | 97.2   | 49.1   | 14.8   | 14.3   | 15.9   | 18.5   | 19.5   | 19.5   | 26.4   | 34.4   | 37.0   |
| 77.5° | 43.9   | 26.4   | 9.5    | 11.1   | 13.7   | 14.8   | 16.3   | 16.3   | 21.1   | 26.4   | 26.4   |
| 80°   | 24.8   | 14.3   | 7.4    | 8.5    | 10.1   | 10.1   | 10.1   | 9.0    | 9.5    | 10.6   | 11.6   |
| 82.5° | 15.9   | 9.5    | 5.8    | 6.9    | 6.4    | 5.3    | 4.2    | 4.2    | 3.7    | 4.2    | 5.3    |
| 85°   | 9.0    | 5.3    | 5.3    | 4.2    | 2.6    | 2.2    | 2.6    | 2.2    | 0.6    | 0.0    | 0.6    |
| 87.5° | 5.3    | 3.2    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245982

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--- HS — SS

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