

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: P385743

Luminaire Tested: **GWC-SA1B-750-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385743  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA1B-750-U-SL3  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6104 lumens  
Efficiency: N/A  
Efficacy: 138.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 44  
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

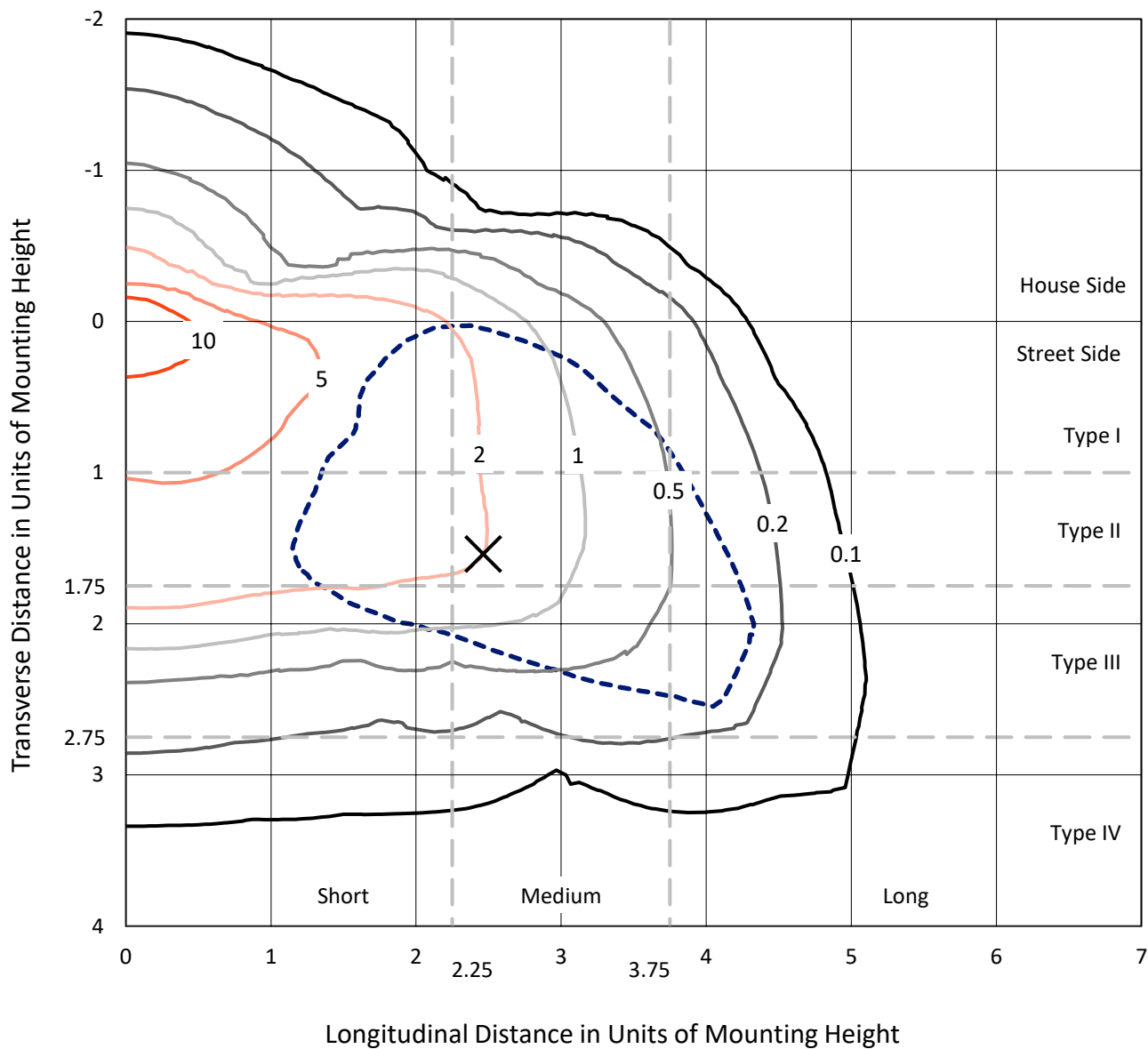


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### Iso-Footcandle Lines of Horizontal Illumination

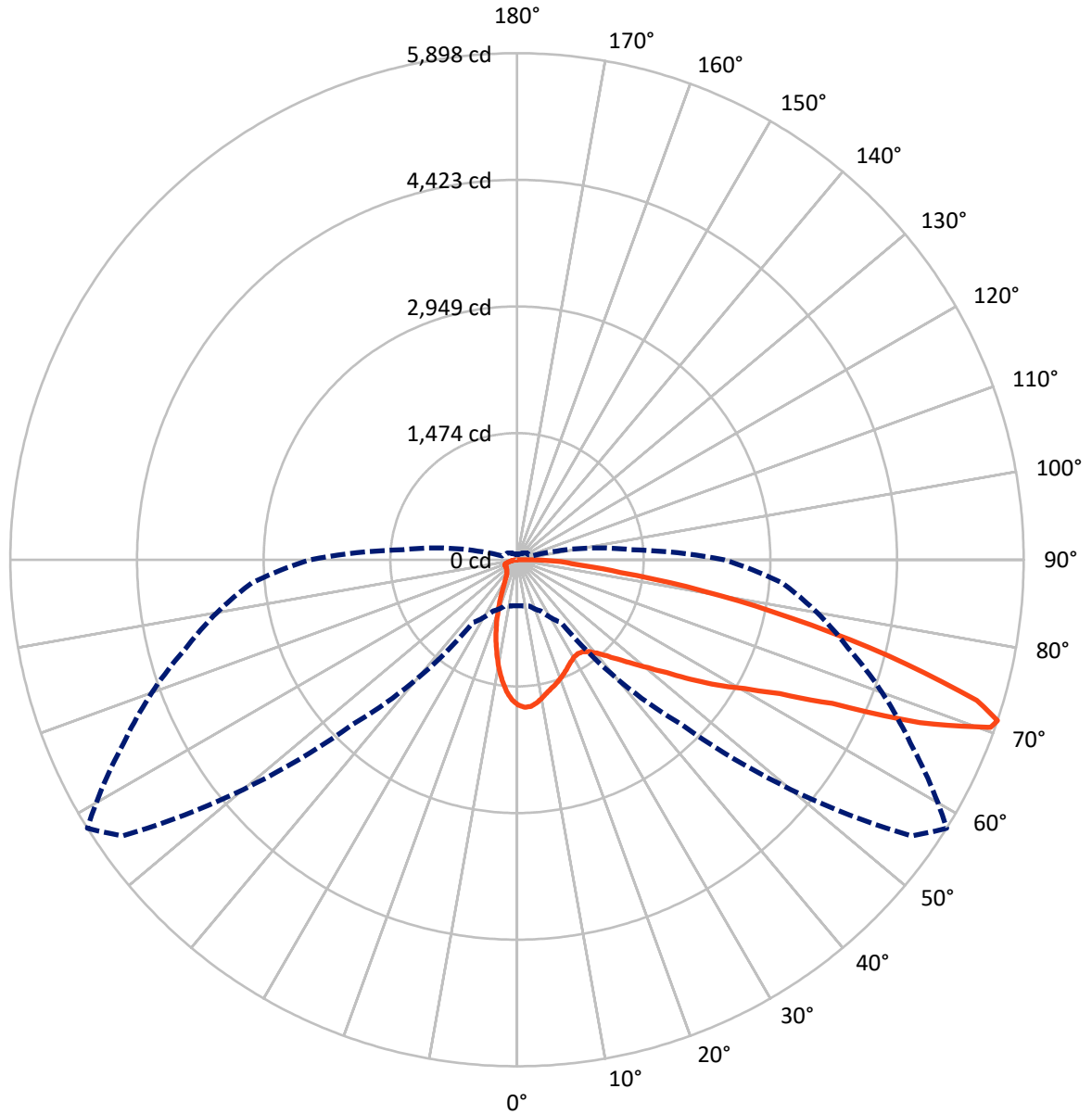
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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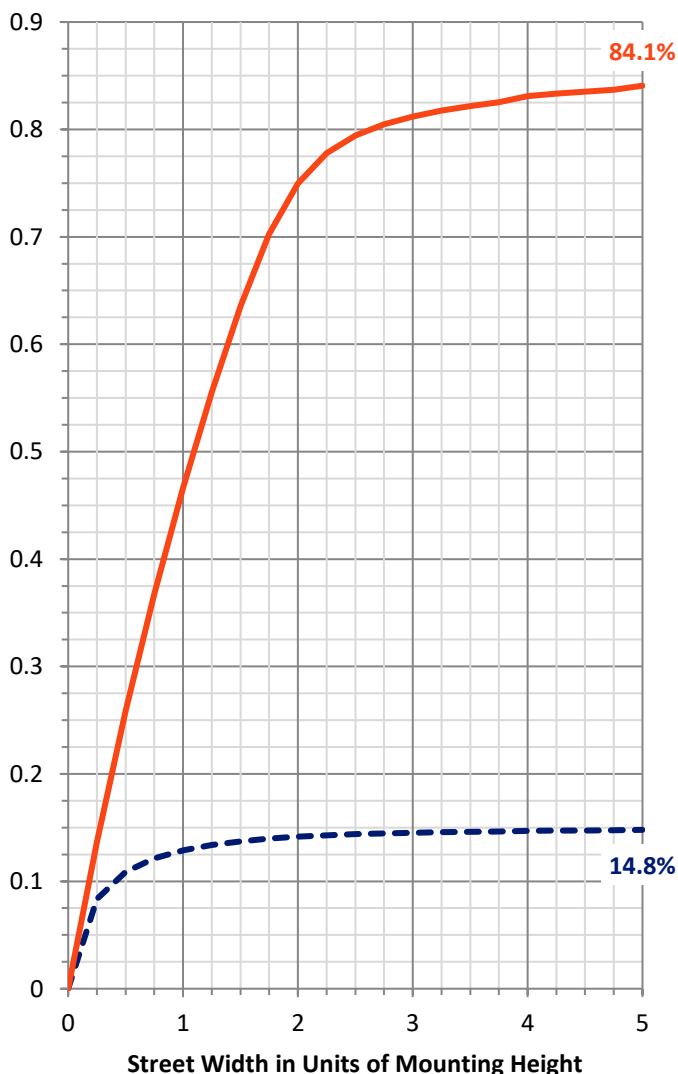
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 912.6    | 0.0    | 912.6  |
|                    | % Fixture | 15.0     | 0.0    | 15.0   |
| <b>Street Side</b> | Lumens    | 5191.4   | 0.0    | 5191.4 |
|                    | % Fixture | 85.0     | 0.0    | 85.0   |
| <b>Total</b>       | Lumens    | 6104.0   | 0.0    | 6104.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 145.9  | 2.4       |
| 10°-20°   | 324.4  | 5.3       |
| 20°-30°   | 412.3  | 6.8       |
| 30°-40°   | 525.2  | 8.6       |
| 40°-50°   | 744.8  | 12.2      |
| 50°-60°   | 1152.6 | 18.9      |
| 60°-70°   | 1569.1 | 25.7      |
| 70°-80°   | 1046.8 | 17.1      |
| 80°-90°   | 183.0  | 3.0       |
| 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°-90°    | 6104.0 | 100.0     |
| 0°-180°   | 6104.0 | 100.0     |

**Coefficient of Utilization**



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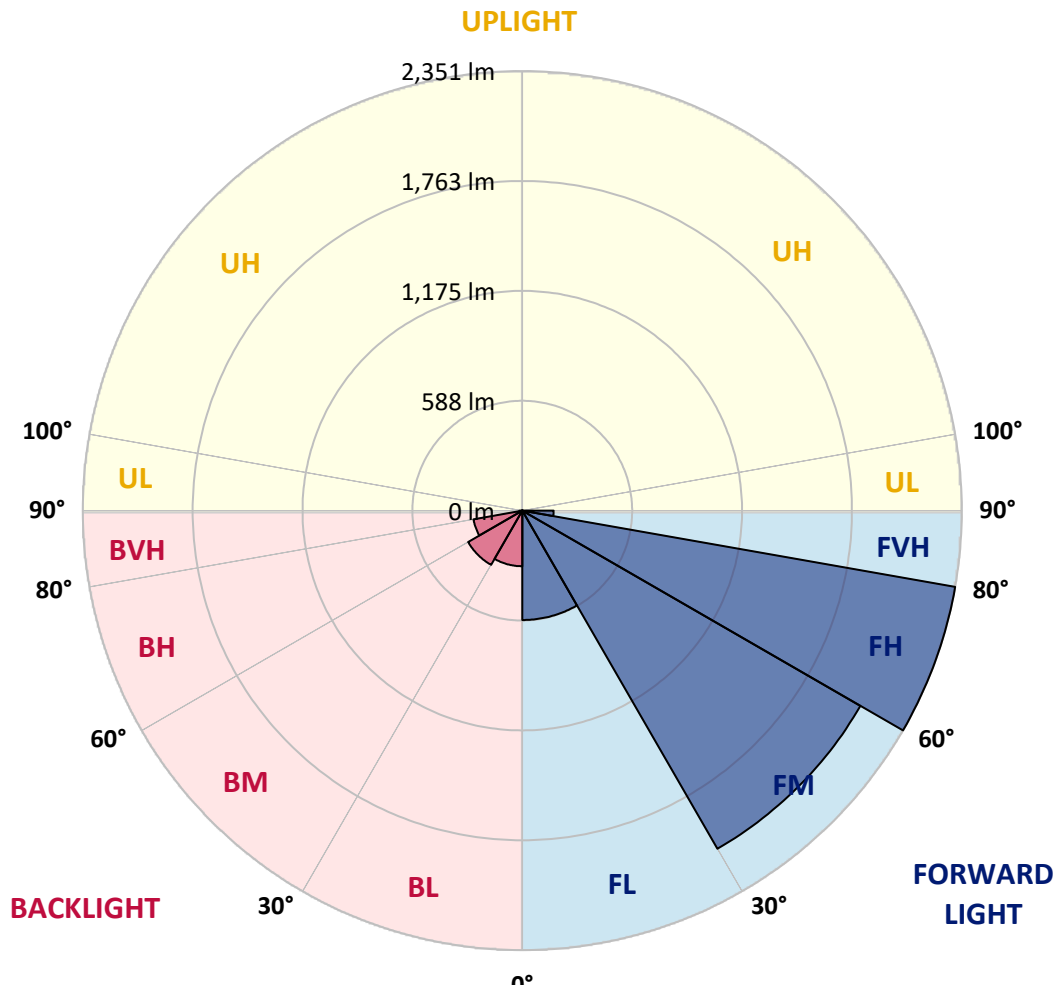
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 585.2  | 9.6       |                         |      |         |
| FM (30°-60°)   | 2087.9 | 34.2      |                         |      |         |
| FH (60°-80°)   | 2350.6 | 38.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 167.8  | 2.7       |                         |      | G2/225  |
| BL (0°-30°)    | 297.5  | 4.9       | B1/500                  |      |         |
| BM (30°-60°)   | 334.7  | 5.5       | B1/1000                 |      |         |
| BH (60°-80°)   | 265.2  | 4.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 15.2   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1691.2 | 1691.2 | 1691.2 | 1691.2 | 1691.2 | 1691.2 | 1691.2 | 1691.2 | 1691.2 | 1691.2 | 1691.2 |
| 2.5°  | 1736.1 | 1733.7 | 1734.6 | 1732.9 | 1728.9 | 1724.8 | 1718.9 | 1719.9 | 1711.6 | 1699.3 | 1684.0 |
| 5°    | 1703.3 | 1702.5 | 1708.9 | 1712.5 | 1715.5 | 1713.1 | 1711.4 | 1713.5 | 1701.4 | 1684.4 | 1657.8 |
| 7.5°  | 1634.7 | 1625.3 | 1633.4 | 1645.5 | 1657.0 | 1665.7 | 1677.2 | 1678.7 | 1671.0 | 1653.2 | 1618.3 |
| 10°   | 1537.1 | 1528.1 | 1540.0 | 1559.0 | 1581.9 | 1602.8 | 1625.9 | 1630.2 | 1631.7 | 1615.5 | 1573.2 |
| 12.5° | 1435.9 | 1429.0 | 1441.0 | 1467.5 | 1505.6 | 1537.7 | 1574.7 | 1581.1 | 1594.3 | 1583.4 | 1531.5 |
| 15°   | 1345.3 | 1342.7 | 1357.2 | 1383.3 | 1427.1 | 1476.3 | 1529.6 | 1541.3 | 1563.6 | 1560.0 | 1499.0 |
| 17.5° | 1267.0 | 1266.4 | 1277.4 | 1304.9 | 1353.4 | 1415.4 | 1484.8 | 1504.5 | 1537.7 | 1542.0 | 1472.2 |
| 20°   | 1208.8 | 1207.5 | 1215.1 | 1235.3 | 1285.3 | 1355.7 | 1436.3 | 1463.5 | 1511.3 | 1526.2 | 1444.6 |
| 22.5° | 1177.5 | 1177.3 | 1177.5 | 1187.1 | 1227.9 | 1293.4 | 1389.1 | 1422.2 | 1485.6 | 1513.7 | 1414.0 |
| 25°   | 1172.2 | 1171.6 | 1166.9 | 1165.8 | 1189.0 | 1241.3 | 1342.3 | 1378.9 | 1461.2 | 1505.0 | 1384.8 |
| 27.5° | 1186.0 | 1186.9 | 1180.7 | 1170.7 | 1175.4 | 1207.1 | 1301.7 | 1340.8 | 1441.6 | 1503.3 | 1364.6 |
| 30°   | 1214.7 | 1214.3 | 1209.0 | 1198.6 | 1189.4 | 1194.3 | 1272.8 | 1311.9 | 1428.4 | 1510.7 | 1350.8 |
| 32.5° | 1246.4 | 1248.7 | 1247.7 | 1241.9 | 1228.3 | 1208.8 | 1264.1 | 1302.3 | 1424.6 | 1528.6 | 1344.9 |
| 35°   | 1284.5 | 1287.0 | 1294.7 | 1299.1 | 1283.2 | 1251.7 | 1282.8 | 1315.9 | 1435.6 | 1562.2 | 1354.4 |
| 37.5° | 1320.6 | 1327.2 | 1348.7 | 1367.6 | 1354.0 | 1318.9 | 1332.5 | 1356.1 | 1469.9 | 1615.1 | 1380.1 |
| 40°   | 1362.3 | 1368.0 | 1403.1 | 1443.3 | 1441.2 | 1404.8 | 1412.7 | 1428.4 | 1530.3 | 1691.0 | 1426.7 |
| 42.5° | 1403.3 | 1414.8 | 1465.6 | 1522.6 | 1539.0 | 1506.9 | 1519.4 | 1527.7 | 1615.3 | 1791.6 | 1507.9 |
| 45°   | 1458.0 | 1470.3 | 1540.9 | 1609.6 | 1647.8 | 1629.8 | 1649.8 | 1652.9 | 1722.3 | 1928.5 | 1625.9 |
| 47.5° | 1540.7 | 1554.7 | 1637.0 | 1709.1 | 1767.5 | 1769.5 | 1802.4 | 1801.1 | 1855.8 | 2085.2 | 1774.6 |
| 50°   | 1669.5 | 1689.7 | 1757.1 | 1824.5 | 1895.5 | 1935.1 | 1979.1 | 1972.9 | 2015.9 | 2252.1 | 1945.7 |
| 52.5° | 1838.4 | 1847.7 | 1897.7 | 1947.4 | 2035.7 | 2124.3 | 2187.5 | 2182.0 | 2197.5 | 2423.7 | 2140.1 |
| 55°   | 2013.3 | 2020.4 | 2041.0 | 2068.2 | 2186.8 | 2331.4 | 2465.0 | 2456.2 | 2416.9 | 2601.9 | 2332.1 |
| 57.5° | 2170.7 | 2184.9 | 2199.2 | 2210.4 | 2339.1 | 2547.9 | 2748.8 | 2749.4 | 2655.0 | 2794.1 | 2530.4 |
| 60°   | 2195.1 | 2207.7 | 2301.9 | 2390.8 | 2599.5 | 2836.6 | 3052.7 | 3046.3 | 2901.5 | 3002.7 | 2751.6 |
| 62.5° | 1940.4 | 1968.7 | 2126.0 | 2362.5 | 2850.4 | 3364.8 | 3440.3 | 3432.4 | 3196.2 | 3259.7 | 3009.1 |
| 65°   | 1390.6 | 1422.7 | 1612.5 | 1967.8 | 2728.8 | 3946.7 | 4139.8 | 4033.9 | 3598.0 | 3575.9 | 3310.6 |
| 67.5° | 802.2  | 809.9  | 892.2  | 1177.5 | 2077.8 | 3977.1 | 5207.0 | 5058.8 | 4222.1 | 3934.6 | 3458.1 |
| 70°   | 593.2  | 593.0  | 612.6  | 724.6  | 1124.4 | 3245.9 | 5714.5 | 5847.4 | 4879.1 | 4052.6 | 3249.5 |
| 71°   | 536.5  | 537.1  | 559.0  | 659.6  | 890.5  | 2716.9 | 5606.7 | 5897.6 | 5052.2 | 3994.4 | 3098.6 |
| 72.5° | 458.8  | 461.0  | 491.4  | 591.5  | 749.1  | 1873.6 | 5142.3 | 5596.5 | 5134.2 | 3850.6 | 2862.4 |
| 75°   | 348.1  | 353.0  | 395.1  | 498.6  | 684.7  | 950.2  | 3774.1 | 4468.9 | 4561.0 | 3397.7 | 2126.9 |
| 77.5° | 248.3  | 253.9  | 301.5  | 419.3  | 650.8  | 716.1  | 2527.5 | 3259.7 | 3356.5 | 2177.5 | 959.4  |
| 80°   | 156.9  | 163.5  | 199.4  | 333.6  | 611.5  | 680.0  | 1588.3 | 2191.1 | 1830.3 | 696.8  | 244.1  |
| 82.5° | 92.1   | 97.2   | 123.7  | 217.9  | 499.5  | 654.9  | 934.5  | 1214.5 | 712.3  | 210.5  | 111.0  |
| 85°   | 53.4   | 55.7   | 77.2   | 138.8  | 362.7  | 618.1  | 686.6  | 678.9  | 309.2  | 102.9  | 52.5   |
| 87.5° | 24.9   | 27.6   | 45.7   | 72.5   | 201.4  | 448.0  | 542.6  | 468.8  | 192.2  | 48.3   | 24.7   |
| 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°    | 1691.2 | 1691.2 | 1691.2 | 1691.2 | 1691.2 | 1691.2 | 1691.2 | 1691.2 | 1691.2 | 1691.2 | 1691.2 |
| 2.5°  | 1676.5 | 1672.9 | 1657.8 | 1644.4 | 1630.4 | 1612.1 | 1591.9 | 1589.4 | 1577.0 | 1579.4 | 1575.1 |
| 5°    | 1643.4 | 1634.2 | 1597.9 | 1564.9 | 1526.0 | 1491.1 | 1453.3 | 1435.9 | 1410.8 | 1409.1 | 1402.7 |
| 7.5°  | 1596.0 | 1579.0 | 1522.6 | 1460.1 | 1397.6 | 1338.0 | 1279.1 | 1240.5 | 1200.9 | 1184.1 | 1182.6 |
| 10°   | 1542.6 | 1513.7 | 1430.8 | 1338.3 | 1248.1 | 1161.1 | 1076.9 | 1014.6 | 958.5  | 931.9  | 930.9  |
| 12.5° | 1492.0 | 1449.2 | 1335.5 | 1209.6 | 1086.3 | 973.6  | 858.2  | 776.3  | 705.9  | 682.3  | 672.3  |
| 15°   | 1449.0 | 1388.9 | 1242.8 | 1081.8 | 932.1  | 775.7  | 644.3  | 558.1  | 493.1  | 470.5  | 466.3  |
| 17.5° | 1407.4 | 1330.0 | 1147.7 | 952.8  | 771.8  | 599.8  | 468.2  | 404.2  | 369.5  | 360.4  | 360.2  |
| 20°   | 1365.9 | 1269.4 | 1048.5 | 820.7  | 616.8  | 448.6  | 360.0  | 331.3  | 319.6  | 318.5  | 316.8  |
| 22.5° | 1318.9 | 1205.2 | 944.1  | 688.3  | 481.4  | 352.7  | 306.0  | 294.5  | 293.0  | 296.8  | 296.8  |
| 25°   | 1274.9 | 1141.4 | 838.2  | 558.6  | 374.4  | 294.3  | 273.2  | 270.9  | 274.9  | 281.7  | 282.4  |
| 27.5° | 1233.9 | 1079.9 | 734.8  | 443.3  | 300.0  | 259.2  | 250.5  | 253.2  | 260.5  | 268.3  | 268.5  |
| 30°   | 1200.1 | 1021.9 | 634.5  | 349.3  | 253.4  | 233.0  | 231.5  | 237.1  | 244.9  | 251.1  | 252.6  |
| 32.5° | 1173.9 | 972.3  | 537.5  | 280.9  | 223.0  | 213.5  | 214.8  | 219.4  | 224.3  | 227.7  | 230.1  |
| 35°   | 1161.8 | 929.8  | 448.0  | 236.9  | 203.7  | 198.4  | 200.1  | 202.6  | 204.8  | 207.3  | 209.2  |
| 37.5° | 1163.9 | 896.9  | 368.1  | 209.4  | 190.7  | 188.0  | 188.0  | 188.0  | 188.0  | 189.2  | 189.4  |
| 40°   | 1183.7 | 877.9  | 303.0  | 192.0  | 182.0  | 179.0  | 176.7  | 174.6  | 172.9  | 173.7  | 173.3  |
| 42.5° | 1234.3 | 876.2  | 255.4  | 180.9  | 175.0  | 170.1  | 165.4  | 162.4  | 160.3  | 161.2  | 161.6  |
| 45°   | 1320.2 | 897.5  | 223.3  | 173.1  | 168.4  | 161.0  | 155.0  | 151.8  | 150.3  | 153.1  | 153.5  |
| 47.5° | 1431.4 | 943.8  | 203.7  | 167.3  | 162.2  | 152.5  | 146.1  | 143.1  | 143.5  | 147.6  | 148.6  |
| 50°   | 1574.7 | 1019.1 | 194.3  | 163.7  | 158.0  | 145.2  | 138.6  | 136.1  | 137.4  | 143.1  | 144.4  |
| 52.5° | 1732.0 | 1127.5 | 195.4  | 162.7  | 155.2  | 139.9  | 132.9  | 129.9  | 132.0  | 137.4  | 138.4  |
| 55°   | 1913.6 | 1257.9 | 213.0  | 164.1  | 151.2  | 136.5  | 128.2  | 123.1  | 124.8  | 129.7  | 130.6  |
| 57.5° | 2115.4 | 1407.1 | 248.6  | 163.7  | 146.1  | 133.3  | 123.3  | 115.7  | 116.9  | 119.9  | 120.8  |
| 60°   | 2325.5 | 1587.5 | 303.6  | 165.0  | 143.7  | 129.5  | 116.7  | 107.2  | 106.7  | 109.3  | 109.7  |
| 62.5° | 2577.6 | 1796.0 | 366.6  | 165.8  | 145.2  | 124.6  | 108.0  | 98.7   | 97.4   | 98.0   | 98.4   |
| 65°   | 2837.5 | 1947.0 | 343.0  | 162.4  | 149.9  | 120.6  | 100.4  | 90.4   | 88.0   | 87.6   | 87.8   |
| 67.5° | 2845.6 | 1785.2 | 240.5  | 155.6  | 151.8  | 118.4  | 94.6   | 83.3   | 79.5   | 78.0   | 77.8   |
| 70°   | 2551.9 | 1450.3 | 187.3  | 148.4  | 144.2  | 115.0  | 89.3   | 77.6   | 71.9   | 69.5   | 69.3   |
| 71°   | 2408.6 | 1335.1 | 177.5  | 144.8  | 138.4  | 111.6  | 87.0   | 75.1   | 69.1   | 66.6   | 66.1   |
| 72.5° | 2183.9 | 1196.9 | 165.6  | 139.1  | 127.4  | 102.9  | 82.5   | 71.4   | 65.3   | 62.3   | 61.7   |
| 75°   | 1567.3 | 782.7  | 142.2  | 124.0  | 105.5  | 82.1   | 72.3   | 64.2   | 58.9   | 55.3   | 54.9   |
| 77.5° | 603.9  | 311.5  | 107.6  | 103.1  | 80.8   | 64.2   | 59.5   | 55.5   | 51.7   | 48.1   | 47.8   |
| 80°   | 186.7  | 139.3  | 78.5   | 77.6   | 58.5   | 47.8   | 46.4   | 45.3   | 43.8   | 40.0   | 39.1   |
| 82.5° | 99.7   | 79.9   | 54.0   | 50.2   | 38.3   | 31.9   | 33.6   | 34.0   | 34.2   | 30.2   | 29.8   |
| 85°   | 47.6   | 42.3   | 30.4   | 28.5   | 22.3   | 17.9   | 20.6   | 22.3   | 22.5   | 18.5   | 17.2   |
| 87.5° | 22.8   | 22.1   | 14.2   | 10.8   | 8.3    | 6.0    | 7.2    | 8.9    | 9.8    | 7.0    | 6.2    |
| 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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