

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: P386356

Luminaire Tested: **GWC-SA2A-730-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA2A-730-U-SL2-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7337 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

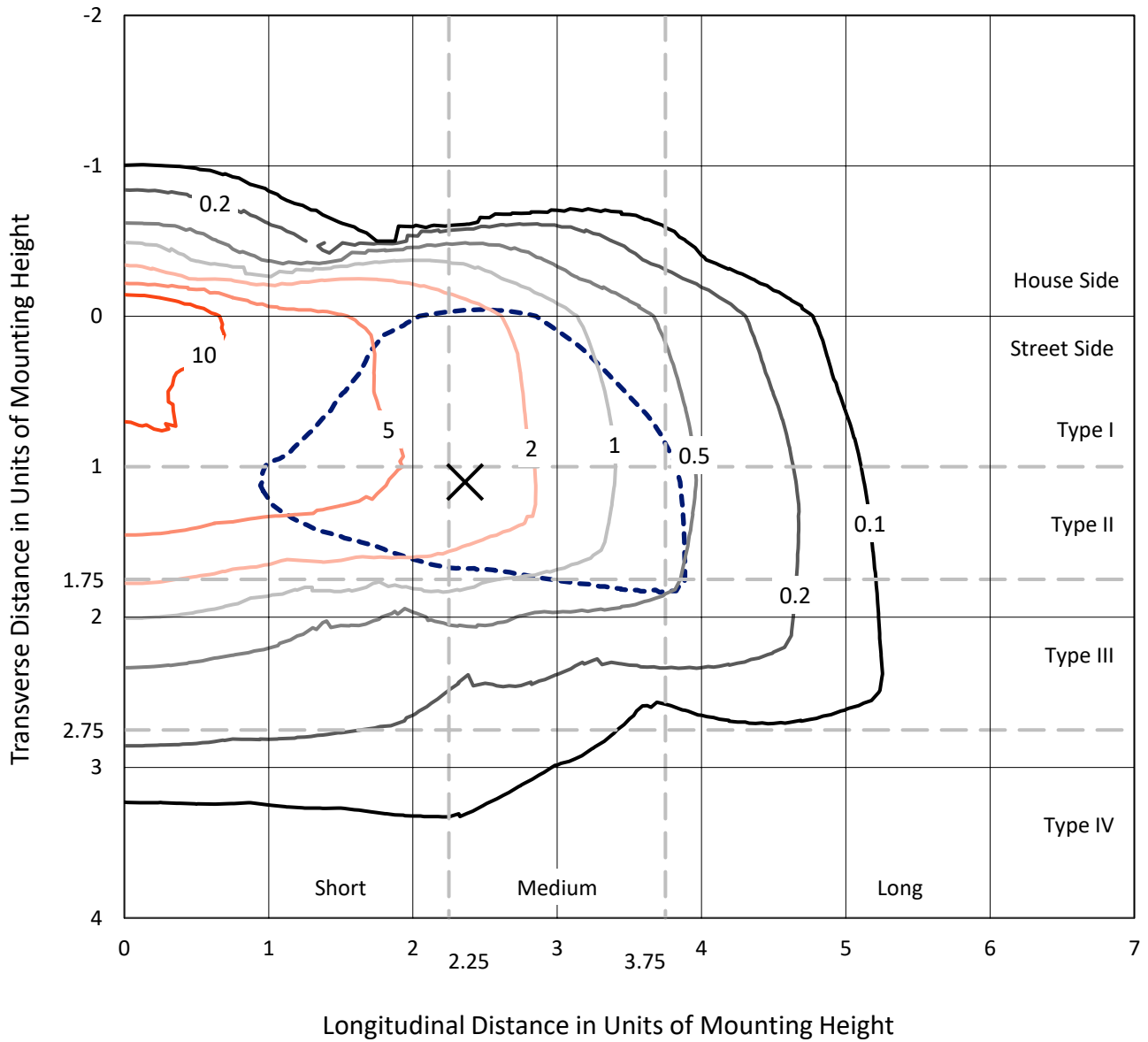
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

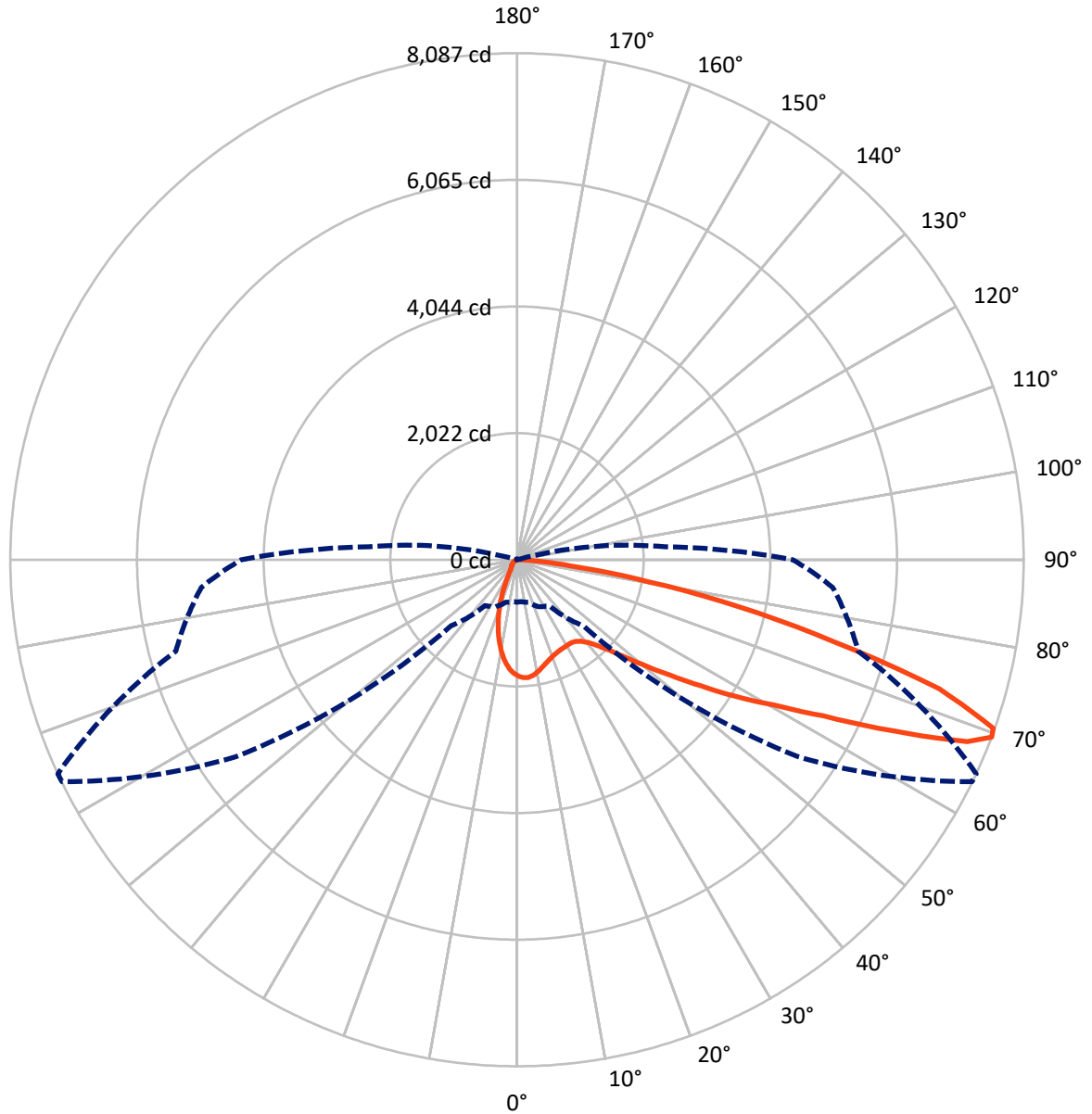
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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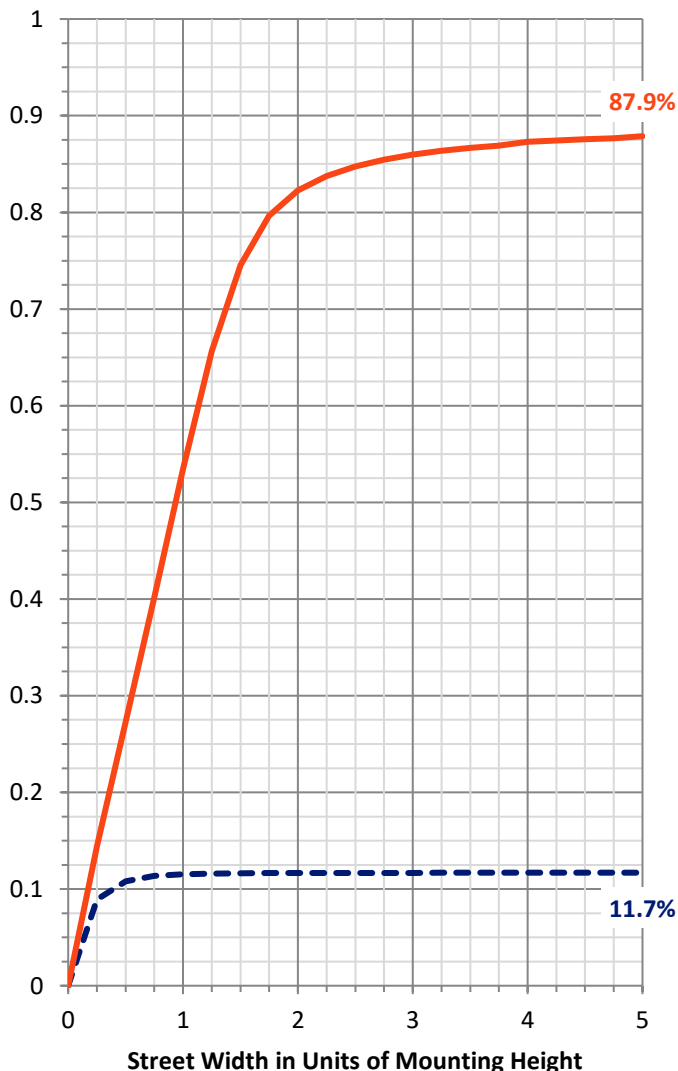
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 864.9 | 0.0 | 864.9 |
| | % Fixture | 11.8 | 0.0 | 11.8 |
| Street Side | Lumens | 6472.1 | 0.0 | 6472.1 |
| | % Fixture | 88.2 | 0.0 | 88.2 |
| Total | Lumens | 7337.0 | 0.0 | 7337.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 155.0 | 2.1 |
| 10°-20° | 339.4 | 4.6 |
| 20°-30° | 470.1 | 6.4 |
| 30°-40° | 655.4 | 8.9 |
| 40°-50° | 1018.7 | 13.9 |
| 50°-60° | 1635.5 | 22.3 |
| 60°-70° | 1850.0 | 25.2 |
| 70°-80° | 1086.5 | 14.8 |
| 80°-90° | 126.4 | 1.7 |
| 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° | 7337.0 | 100.0 |
| 0°-180° | 7337.0 | 100.0 |

Coefficient of Utilization



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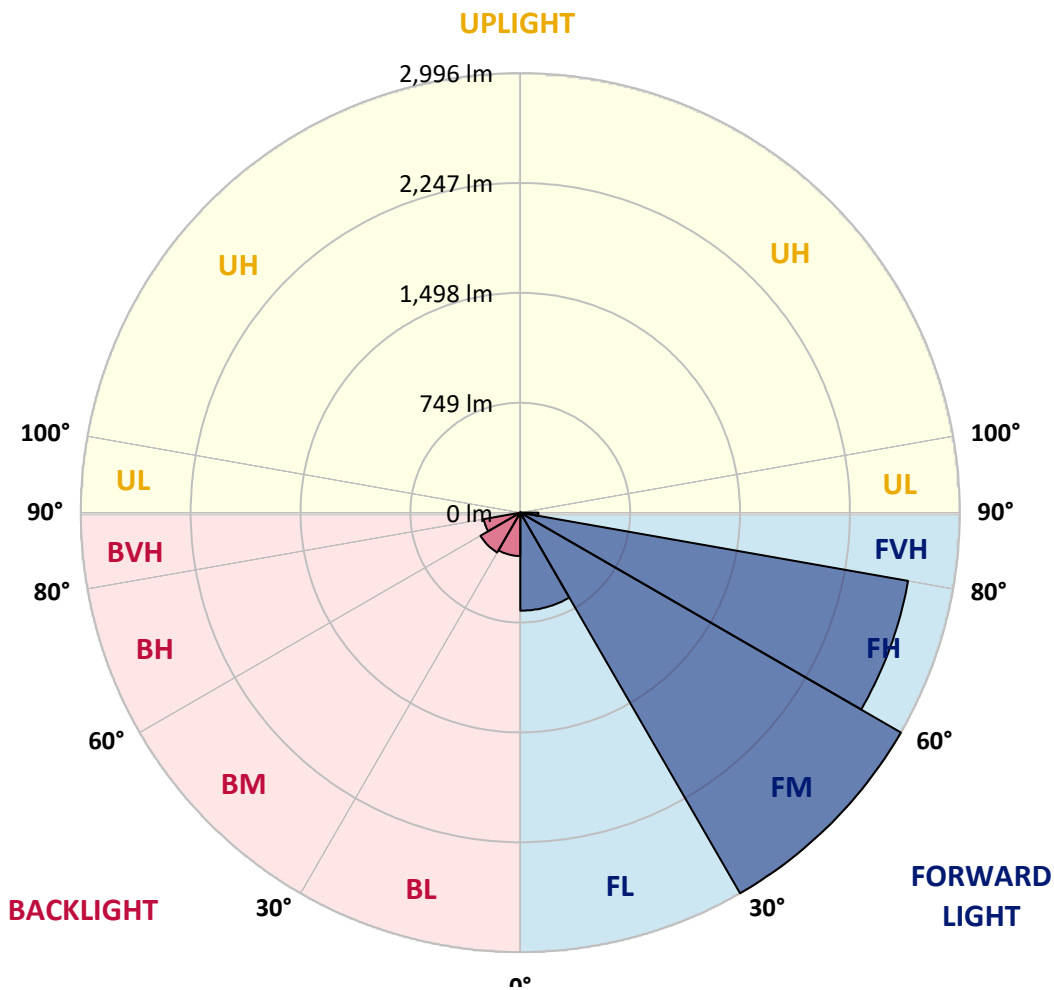
CATALOG NUMBER: GWC-SA2A-730-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 668.6 | 9.1 | | | |
| FM (30°-60°) | 2996.2 | 40.8 | | | |
| FH (60°-80°) | 2683.8 | 36.6 | | | G2/5000 |
| FVH (80°-90°) | 123.6 | 1.7 | | | G2/225 |
| BL (0°-30°) | 295.9 | 4.0 | B1/500 | | |
| BM (30°-60°) | 313.4 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 252.7 | 3.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.8 | 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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1854.1 | 1854.1 | 1854.1 | 1854.1 | 1854.1 | 1854.1 | 1854.1 | 1854.1 | 1854.1 | 1854.1 | 1854.1 |
| 2.5° | 1870.5 | 1865.9 | 1869.6 | 1877.7 | 1881.7 | 1881.7 | 1884.8 | 1881.1 | 1882.3 | 1873.3 | 1860.3 |
| 5° | 1753.5 | 1746.3 | 1756.6 | 1779.3 | 1807.2 | 1831.1 | 1866.5 | 1885.1 | 1887.0 | 1887.3 | 1872.1 |
| 7.5° | 1627.4 | 1620.9 | 1636.1 | 1662.8 | 1698.8 | 1743.2 | 1805.0 | 1859.0 | 1862.1 | 1891.3 | 1880.2 |
| 10° | 1525.0 | 1520.3 | 1538.0 | 1566.6 | 1608.8 | 1658.5 | 1734.2 | 1809.4 | 1818.4 | 1882.9 | 1878.9 |
| 12.5° | 1443.6 | 1439.9 | 1456.7 | 1489.6 | 1532.7 | 1587.7 | 1666.9 | 1754.1 | 1766.2 | 1864.0 | 1872.7 |
| 15° | 1384.3 | 1383.7 | 1397.7 | 1429.4 | 1477.2 | 1528.4 | 1609.4 | 1702.9 | 1716.8 | 1843.5 | 1871.8 |
| 17.5° | 1353.3 | 1354.2 | 1364.5 | 1391.5 | 1432.5 | 1483.4 | 1561.0 | 1659.7 | 1674.9 | 1825.2 | 1876.4 |
| 20° | 1350.2 | 1351.1 | 1356.7 | 1371.9 | 1405.1 | 1450.2 | 1521.6 | 1623.4 | 1639.2 | 1811.5 | 1883.9 |
| 22.5° | 1377.5 | 1376.9 | 1378.4 | 1376.9 | 1395.5 | 1429.7 | 1495.5 | 1595.5 | 1613.8 | 1802.5 | 1889.8 |
| 25° | 1430.0 | 1429.1 | 1428.4 | 1416.9 | 1404.5 | 1422.8 | 1484.6 | 1579.6 | 1597.0 | 1796.0 | 1893.2 |
| 27.5° | 1502.9 | 1502.3 | 1501.4 | 1482.5 | 1445.2 | 1433.7 | 1485.9 | 1573.7 | 1588.3 | 1790.7 | 1892.6 |
| 30° | 1598.9 | 1603.2 | 1602.0 | 1575.6 | 1517.5 | 1466.9 | 1498.9 | 1570.6 | 1583.4 | 1780.5 | 1886.1 |
| 32.5° | 1711.6 | 1720.3 | 1727.1 | 1698.8 | 1626.2 | 1532.7 | 1529.0 | 1574.0 | 1583.4 | 1772.7 | 1874.3 |
| 35° | 1828.6 | 1839.8 | 1864.9 | 1855.0 | 1759.4 | 1631.8 | 1580.9 | 1594.5 | 1602.3 | 1777.1 | 1868.7 |
| 37.5° | 1943.8 | 1957.1 | 2011.8 | 2040.7 | 1933.9 | 1762.8 | 1661.6 | 1645.1 | 1649.2 | 1803.5 | 1874.9 |
| 40° | 2077.6 | 2097.8 | 2180.7 | 2227.2 | 2142.2 | 1938.2 | 1782.4 | 1732.1 | 1733.6 | 1861.5 | 1903.7 |
| 42.5° | 2253.3 | 2274.1 | 2363.8 | 2436.8 | 2376.9 | 2159.9 | 1946.3 | 1864.9 | 1863.4 | 1970.2 | 1971.7 |
| 45° | 2467.5 | 2489.3 | 2582.1 | 2663.1 | 2636.1 | 2422.5 | 2156.2 | 2059.0 | 2057.1 | 2141.6 | 2100.6 |
| 47.5° | 2710.3 | 2731.7 | 2814.6 | 2898.2 | 2927.3 | 2729.3 | 2423.5 | 2323.8 | 2319.5 | 2379.7 | 2299.6 |
| 50° | 2918.6 | 2932.6 | 3009.0 | 3121.4 | 3253.0 | 3106.2 | 2756.0 | 2660.0 | 2655.4 | 2696.0 | 2591.7 |
| 52.5° | 2994.4 | 3002.5 | 3080.1 | 3237.5 | 3566.0 | 3616.6 | 3192.8 | 3069.2 | 3065.8 | 3083.5 | 2980.7 |
| 55° | 2841.0 | 2855.6 | 2950.9 | 3184.4 | 3735.5 | 4193.4 | 3744.2 | 3575.9 | 3550.1 | 3511.9 | 3387.4 |
| 57.5° | 2423.1 | 2446.4 | 2548.9 | 2859.3 | 3656.3 | 4651.0 | 4554.5 | 4149.0 | 4111.1 | 3877.7 | 3718.1 |
| 60° | 1815.6 | 1844.1 | 1929.2 | 2264.2 | 3233.8 | 4814.0 | 5439.9 | 4787.6 | 4702.2 | 4168.9 | 4022.0 |
| 62.5° | 1245.9 | 1260.2 | 1317.9 | 1536.2 | 2381.5 | 4547.0 | 6180.7 | 5642.9 | 5487.1 | 4485.5 | 4350.8 |
| 65° | 951.6 | 956.5 | 980.1 | 1055.3 | 1418.2 | 3693.6 | 6475.3 | 6771.5 | 6583.0 | 4864.3 | 4692.0 |
| 67.5° | 766.8 | 762.8 | 795.4 | 902.8 | 949.7 | 2253.3 | 6131.6 | 7839.1 | 7751.0 | 5370.7 | 5035.4 |
| 69° | 676.2 | 670.6 | 703.8 | 828.6 | 892.0 | 1489.6 | 5481.5 | 8081.6 | 8087.2 | 5638.0 | 5059.0 |
| 70° | 608.5 | 612.2 | 645.1 | 784.5 | 872.4 | 1169.2 | 4860.6 | 8019.8 | 8063.9 | 5737.9 | 4917.4 |
| 72.5° | 406.4 | 416.3 | 482.5 | 651.3 | 838.9 | 884.8 | 2934.8 | 6882.0 | 7051.5 | 5512.9 | 4218.9 |
| 75° | 229.1 | 236.6 | 315.1 | 491.1 | 790.4 | 842.6 | 1550.1 | 5070.1 | 5234.1 | 4610.0 | 3253.3 |
| 77.5° | 112.4 | 116.4 | 178.2 | 317.0 | 661.0 | 802.9 | 879.2 | 3443.9 | 3631.2 | 3009.0 | 1840.1 |
| 80° | 47.5 | 49.7 | 89.1 | 195.6 | 472.5 | 766.2 | 652.9 | 2119.5 | 2142.8 | 1178.8 | 490.2 |
| 82.5° | 18.3 | 18.9 | 37.6 | 122.0 | 300.2 | 597.3 | 546.1 | 1005.0 | 980.7 | 222.0 | 111.8 |
| 85° | 2.2 | 2.5 | 13.7 | 73.3 | 167.0 | 307.4 | 443.6 | 433.1 | 400.8 | 44.1 | 57.4 |
| 87.5° | 0.0 | 0.0 | 0.9 | 22.4 | 49.7 | 144.1 | 230.7 | 179.8 | 162.1 | 14.3 | 29.8 |
| 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° | 1854.1 | 1854.1 | 1854.1 | 1854.1 | 1854.1 | 1854.1 | 1854.1 | 1854.1 | 1854.1 | 1854.1 | 1854.1 |
| 2.5° | 1849.4 | 1846.3 | 1829.5 | 1805.3 | 1782.4 | 1753.8 | 1726.5 | 1710.0 | 1697.0 | 1688.3 | 1698.5 |
| 5° | 1854.4 | 1840.7 | 1789.8 | 1724.6 | 1660.7 | 1588.6 | 1521.6 | 1464.8 | 1442.4 | 1417.6 | 1428.7 |
| 7.5° | 1852.8 | 1827.1 | 1735.5 | 1619.4 | 1502.0 | 1380.6 | 1265.7 | 1177.3 | 1131.3 | 1086.3 | 1097.8 |
| 10° | 1845.1 | 1801.6 | 1662.8 | 1490.8 | 1315.1 | 1140.6 | 977.6 | 853.8 | 784.5 | 721.8 | 730.8 |
| 12.5° | 1828.0 | 1767.5 | 1577.1 | 1343.7 | 1108.7 | 878.6 | 687.7 | 529.0 | 444.0 | 406.4 | 411.1 |
| 15° | 1817.7 | 1734.2 | 1486.5 | 1194.7 | 888.2 | 611.9 | 420.4 | 312.6 | 273.8 | 261.4 | 263.0 |
| 17.5° | 1812.8 | 1702.3 | 1392.7 | 1024.2 | 662.8 | 389.6 | 271.7 | 239.7 | 231.3 | 229.1 | 229.7 |
| 20° | 1807.8 | 1670.0 | 1296.2 | 855.6 | 456.7 | 262.0 | 223.2 | 213.9 | 210.8 | 208.0 | 208.6 |
| 22.5° | 1799.4 | 1638.9 | 1192.5 | 684.9 | 308.0 | 212.7 | 201.2 | 192.2 | 185.7 | 182.2 | 182.9 |
| 25° | 1789.2 | 1606.3 | 1086.6 | 510.1 | 224.8 | 189.7 | 178.8 | 166.1 | 158.3 | 152.1 | 152.4 |
| 27.5° | 1772.7 | 1566.3 | 977.3 | 371.3 | 188.8 | 169.8 | 155.2 | 141.3 | 128.2 | 121.1 | 121.1 |
| 30° | 1749.8 | 1520.9 | 855.9 | 265.8 | 169.2 | 150.3 | 132.6 | 115.2 | 101.2 | 94.7 | 94.1 |
| 32.5° | 1724.3 | 1473.8 | 733.3 | 201.5 | 153.7 | 131.9 | 111.8 | 93.4 | 81.0 | 75.8 | 75.4 |
| 35° | 1702.6 | 1422.8 | 611.0 | 168.9 | 138.2 | 114.2 | 92.2 | 76.7 | 66.7 | 62.4 | 62.1 |
| 37.5° | 1688.6 | 1371.9 | 491.8 | 150.9 | 124.2 | 97.8 | 77.3 | 63.3 | 56.2 | 52.8 | 52.5 |
| 40° | 1686.4 | 1334.1 | 382.8 | 137.2 | 111.1 | 83.2 | 64.6 | 53.7 | 47.2 | 43.5 | 43.2 |
| 42.5° | 1714.7 | 1312.3 | 293.7 | 125.7 | 97.8 | 70.5 | 55.0 | 45.9 | 39.1 | 35.4 | 35.1 |
| 45° | 1788.9 | 1319.1 | 226.0 | 115.5 | 84.4 | 59.6 | 46.6 | 38.2 | 32.0 | 29.2 | 28.6 |
| 47.5° | 1924.2 | 1366.3 | 179.8 | 105.2 | 71.7 | 50.6 | 39.7 | 31.7 | 26.4 | 23.6 | 23.3 |
| 50° | 2165.2 | 1477.2 | 150.3 | 94.1 | 59.9 | 43.2 | 32.9 | 25.8 | 21.4 | 18.9 | 18.6 |
| 52.5° | 2484.9 | 1674.6 | 134.1 | 83.2 | 49.7 | 36.6 | 27.0 | 20.5 | 16.8 | 14.9 | 14.6 |
| 55° | 2837.6 | 1913.7 | 123.6 | 71.4 | 40.7 | 30.4 | 21.4 | 16.1 | 13.0 | 11.5 | 10.9 |
| 57.5° | 3181.9 | 2120.8 | 113.6 | 59.9 | 33.8 | 24.8 | 17.1 | 12.7 | 10.2 | 8.7 | 8.4 |
| 60° | 3498.3 | 2311.1 | 102.1 | 48.1 | 27.6 | 19.6 | 13.3 | 9.9 | 8.1 | 6.5 | 6.5 |
| 62.5° | 3837.0 | 2458.2 | 86.3 | 37.6 | 22.7 | 14.9 | 10.9 | 9.0 | 6.5 | 5.6 | 5.3 |
| 65° | 4195.9 | 2567.5 | 67.7 | 29.2 | 17.7 | 11.2 | 9.0 | 9.3 | 5.3 | 4.0 | 3.7 |
| 67.5° | 4461.0 | 2545.8 | 50.0 | 23.0 | 13.7 | 8.7 | 8.7 | 9.9 | 4.7 | 3.1 | 2.8 |
| 69° | 4402.6 | 2369.1 | 41.9 | 19.9 | 11.8 | 7.5 | 8.1 | 9.9 | 4.3 | 2.8 | 2.5 |
| 70° | 4233.4 | 2173.5 | 36.9 | 17.7 | 10.6 | 6.8 | 7.8 | 9.6 | 4.0 | 2.8 | 2.5 |
| 72.5° | 3525.6 | 1637.1 | 28.9 | 13.3 | 8.4 | 5.6 | 6.5 | 8.4 | 4.0 | 2.8 | 2.2 |
| 75° | 2652.0 | 1047.8 | 22.0 | 9.6 | 6.2 | 4.3 | 5.0 | 6.2 | 4.0 | 2.5 | 2.2 |
| 77.5° | 1443.0 | 377.8 | 15.8 | 6.5 | 4.3 | 3.4 | 3.4 | 4.7 | 3.7 | 1.9 | 1.2 |
| 80° | 371.0 | 95.0 | 9.9 | 4.3 | 3.4 | 2.5 | 2.2 | 3.1 | 2.2 | 0.3 | 0.0 |
| 82.5° | 91.6 | 21.4 | 5.3 | 3.1 | 2.5 | 0.9 | 0.9 | 1.6 | 0.9 | 0.0 | 0.0 |
| 85° | 50.3 | 10.6 | 3.4 | 2.2 | 1.2 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 |
| 87.5° | 25.8 | 3.1 | 0.9 | 0.6 | 0.3 | 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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