

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: P385939

Luminaire Tested: **GWC-SA1C-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P385939
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-SA1C-735-U-SL3
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3500K, 1050mA 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: 7097.1 lumens
Efficiency: N/A
Efficacy: 120.3 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

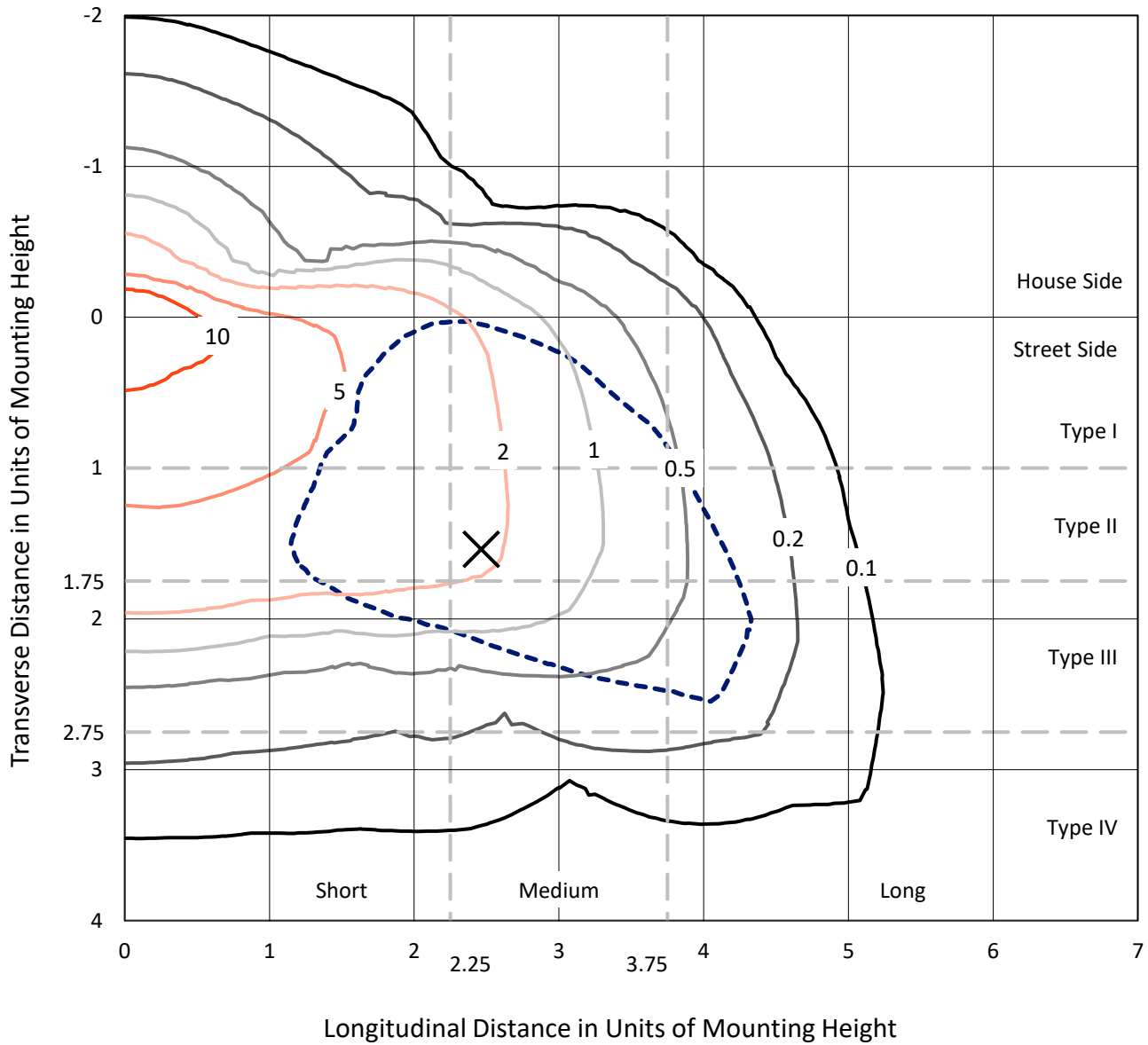
Input Watts (W): 59
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

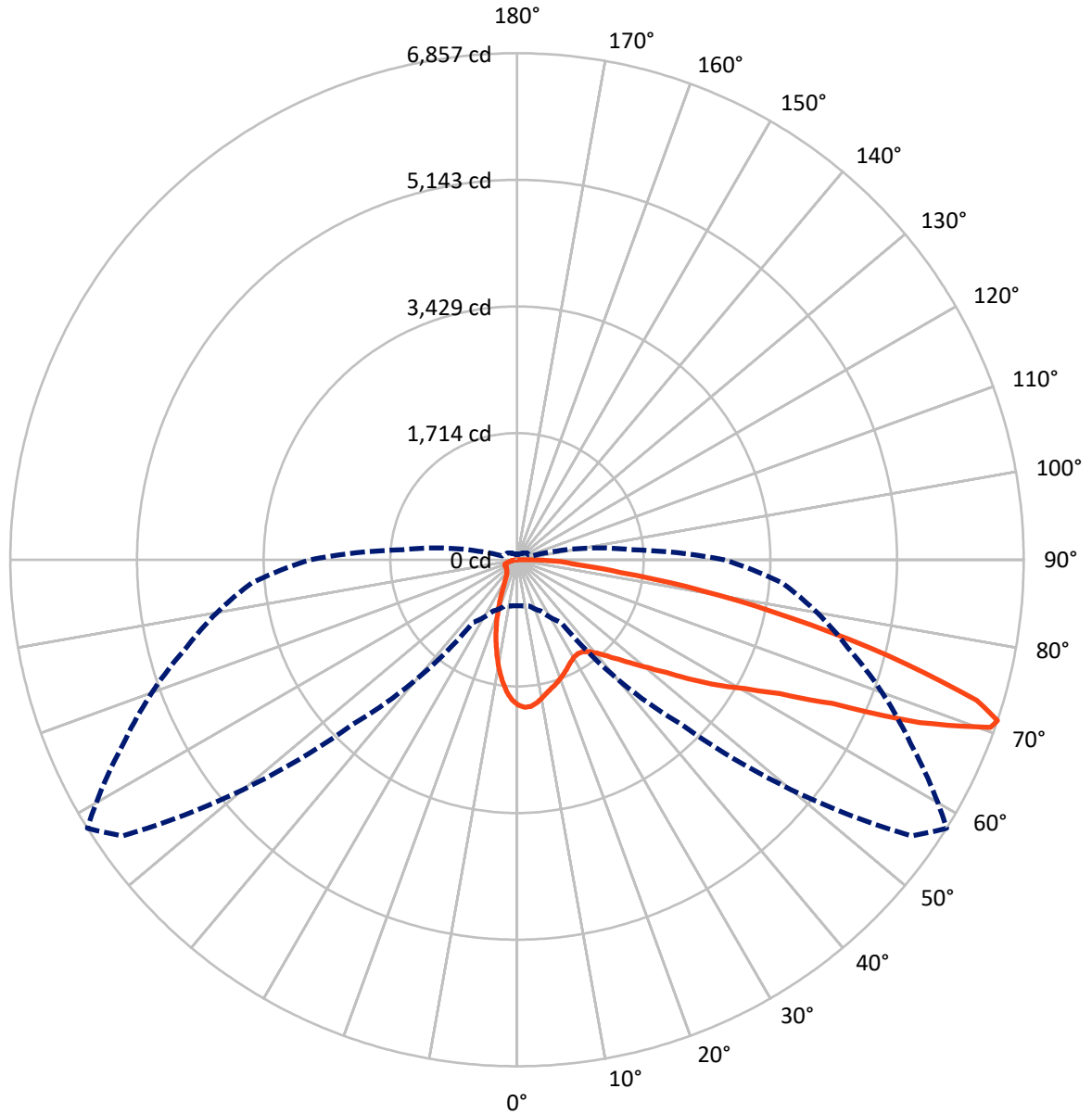
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.7 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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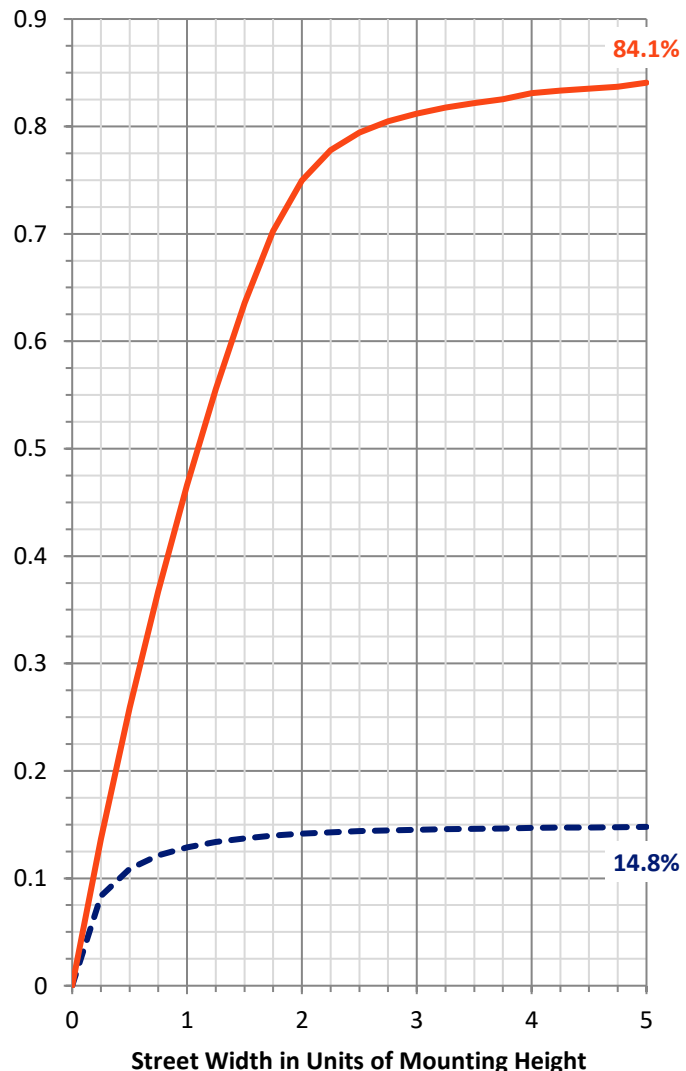
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1061.1 | 0.0 | 1061.1 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 6036.1 | 0.0 | 6036.1 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 7097.1 | 0.0 | 7097.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 169.6 | 2.4 |
| 10°-20° | 377.2 | 5.3 |
| 20°-30° | 479.4 | 6.8 |
| 30°-40° | 610.7 | 8.6 |
| 40°-50° | 865.9 | 12.2 |
| 50°-60° | 1340.1 | 18.9 |
| 60°-70° | 1824.4 | 25.7 |
| 70°-80° | 1217.1 | 17.1 |
| 80°-90° | 212.8 | 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° | 7097.1 | 100.0 |
| 0°-180° | 7097.1 | 100.0 |

Coefficient of Utilization



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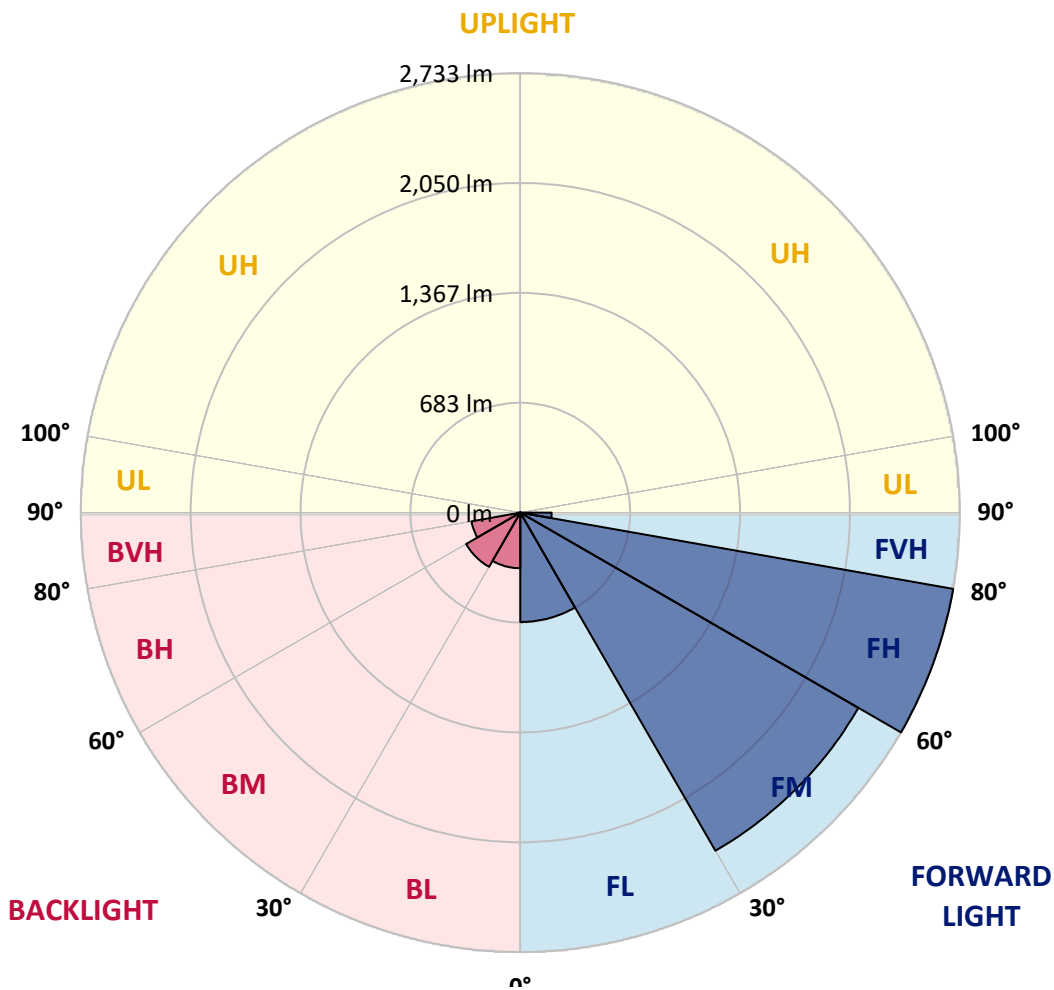
CATALOG NUMBER: GWC-SA1C-735-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 680.4 | 9.6 | | | |
| FM (30°-60°) | 2427.6 | 34.2 | | | |
| FH (60°-80°) | 2733.0 | 38.5 | | | G2/5000 |
| FVH (80°-90°) | 195.1 | 2.7 | | | G2/225 |
| BL (0°-30°) | 345.9 | 4.9 | B1/500 | | |
| BM (30°-60°) | 389.1 | 5.5 | B1/1000 | | |
| BH (60°-80°) | 308.4 | 4.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 17.7 | 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° | 1966.3 | 1966.3 | 1966.3 | 1966.3 | 1966.3 | 1966.3 | 1966.3 | 1966.3 | 1966.3 | 1966.3 | 1966.3 |
| 2.5° | 2018.6 | 2015.8 | 2016.8 | 2014.8 | 2010.1 | 2005.4 | 1998.6 | 1999.8 | 1990.1 | 1975.7 | 1958.0 |
| 5° | 1980.4 | 1979.5 | 1986.9 | 1991.1 | 1994.5 | 1991.8 | 1989.8 | 1992.4 | 1978.3 | 1958.4 | 1927.5 |
| 7.5° | 1900.6 | 1889.8 | 1899.2 | 1913.3 | 1926.6 | 1936.7 | 1950.1 | 1951.8 | 1942.9 | 1922.1 | 1881.6 |
| 10° | 1787.1 | 1776.8 | 1790.6 | 1812.6 | 1839.3 | 1863.6 | 1890.4 | 1895.4 | 1897.2 | 1878.4 | 1829.2 |
| 12.5° | 1669.5 | 1661.6 | 1675.4 | 1706.3 | 1750.6 | 1787.9 | 1830.9 | 1838.3 | 1853.6 | 1841.0 | 1780.7 |
| 15° | 1564.2 | 1561.2 | 1578.0 | 1608.4 | 1659.3 | 1716.5 | 1778.5 | 1792.1 | 1818.0 | 1813.9 | 1742.9 |
| 17.5° | 1473.2 | 1472.4 | 1485.3 | 1517.2 | 1573.6 | 1645.7 | 1726.3 | 1749.3 | 1787.9 | 1792.8 | 1711.8 |
| 20° | 1405.4 | 1403.9 | 1412.8 | 1436.3 | 1494.5 | 1576.3 | 1670.0 | 1701.6 | 1757.2 | 1774.5 | 1679.6 |
| 22.5° | 1369.1 | 1368.9 | 1369.1 | 1380.3 | 1427.7 | 1503.9 | 1615.1 | 1653.6 | 1727.4 | 1760.0 | 1644.0 |
| 25° | 1362.9 | 1362.2 | 1356.8 | 1355.5 | 1382.4 | 1443.3 | 1560.7 | 1603.2 | 1698.9 | 1749.8 | 1610.1 |
| 27.5° | 1379.0 | 1380.0 | 1372.8 | 1361.2 | 1366.6 | 1403.5 | 1513.5 | 1558.9 | 1676.2 | 1747.8 | 1586.6 |
| 30° | 1412.4 | 1411.9 | 1405.7 | 1393.6 | 1383.0 | 1388.6 | 1479.8 | 1525.3 | 1660.8 | 1756.5 | 1570.6 |
| 32.5° | 1449.2 | 1451.9 | 1450.7 | 1444.0 | 1428.2 | 1405.4 | 1469.7 | 1514.2 | 1656.3 | 1777.2 | 1563.6 |
| 35° | 1493.4 | 1496.5 | 1505.3 | 1510.5 | 1491.9 | 1455.4 | 1491.5 | 1530.0 | 1669.2 | 1816.3 | 1574.8 |
| 37.5° | 1535.4 | 1543.1 | 1568.1 | 1590.1 | 1574.3 | 1533.5 | 1549.3 | 1576.8 | 1709.0 | 1877.8 | 1604.7 |
| 40° | 1583.9 | 1590.6 | 1631.4 | 1678.1 | 1675.7 | 1633.4 | 1642.5 | 1660.8 | 1779.2 | 1966.2 | 1658.9 |
| 42.5° | 1631.6 | 1645.0 | 1704.1 | 1770.3 | 1789.4 | 1752.1 | 1766.6 | 1776.3 | 1878.1 | 2083.1 | 1753.3 |
| 45° | 1695.1 | 1709.5 | 1791.6 | 1871.5 | 1916.0 | 1894.9 | 1918.1 | 1921.9 | 2002.5 | 2242.2 | 1890.4 |
| 47.5° | 1791.3 | 1807.7 | 1903.3 | 1987.1 | 2055.1 | 2057.4 | 2095.7 | 2094.2 | 2157.7 | 2424.5 | 2063.3 |
| 50° | 1941.2 | 1964.6 | 2043.0 | 2121.3 | 2203.9 | 2249.9 | 2301.1 | 2293.9 | 2343.9 | 2618.6 | 2262.3 |
| 52.5° | 2137.5 | 2148.3 | 2206.4 | 2264.3 | 2366.9 | 2469.9 | 2543.4 | 2536.9 | 2555.0 | 2818.1 | 2488.3 |
| 55° | 2340.9 | 2349.0 | 2373.1 | 2404.7 | 2542.7 | 2710.7 | 2866.0 | 2855.9 | 2810.1 | 3025.2 | 2711.5 |
| 57.5° | 2523.9 | 2540.4 | 2556.9 | 2570.1 | 2719.6 | 2962.4 | 3196.0 | 3196.8 | 3087.0 | 3248.7 | 2942.2 |
| 60° | 2552.2 | 2566.9 | 2676.4 | 2779.8 | 3022.5 | 3298.1 | 3549.3 | 3541.9 | 3373.6 | 3491.3 | 3199.3 |
| 62.5° | 2256.1 | 2289.0 | 2471.9 | 2746.9 | 3314.2 | 3912.2 | 4000.0 | 3990.8 | 3716.1 | 3790.1 | 3498.7 |
| 65° | 1616.8 | 1654.2 | 1874.9 | 2288.0 | 3172.8 | 4588.8 | 4813.4 | 4690.2 | 4183.4 | 4157.8 | 3849.2 |
| 67.5° | 932.7 | 941.6 | 1037.4 | 1369.1 | 2415.8 | 4624.3 | 6054.1 | 5881.8 | 4909.0 | 4574.8 | 4020.8 |
| 70° | 689.7 | 689.5 | 712.2 | 842.5 | 1307.3 | 3774.0 | 6644.2 | 6798.8 | 5672.9 | 4712.0 | 3778.2 |
| 71° | 623.8 | 624.5 | 650.0 | 766.8 | 1035.3 | 3159.0 | 6518.9 | 6857.1 | 5874.1 | 4644.3 | 3602.8 |
| 72.5° | 533.5 | 535.9 | 571.3 | 687.7 | 870.9 | 2178.5 | 5979.0 | 6507.1 | 5969.6 | 4477.2 | 3328.1 |
| 75° | 404.7 | 410.4 | 459.4 | 579.7 | 796.0 | 1104.8 | 4388.1 | 5196.1 | 5303.1 | 3950.5 | 2473.0 |
| 77.5° | 288.8 | 295.2 | 350.6 | 487.5 | 756.8 | 832.7 | 2938.7 | 3790.1 | 3902.6 | 2531.8 | 1115.4 |
| 80° | 182.4 | 190.1 | 231.9 | 387.9 | 711.0 | 790.6 | 1846.8 | 2547.5 | 2128.1 | 810.1 | 283.8 |
| 82.5° | 107.1 | 113.0 | 143.9 | 253.4 | 580.7 | 761.5 | 1086.5 | 1412.1 | 828.2 | 244.7 | 129.1 |
| 85° | 62.1 | 64.8 | 89.7 | 161.4 | 421.8 | 718.6 | 798.3 | 789.4 | 359.4 | 119.7 | 61.1 |
| 87.5° | 28.9 | 32.1 | 53.2 | 84.3 | 234.1 | 520.9 | 630.9 | 545.1 | 223.5 | 56.1 | 28.7 |
| 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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CATALOG NUMBER: GWC-SA1C-735-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1966.3 | 1966.3 | 1966.3 | 1966.3 | 1966.3 | 1966.3 | 1966.3 | 1966.3 | 1966.3 | 1966.3 | 1966.3 |
| 2.5° | 1949.3 | 1945.1 | 1927.5 | 1911.9 | 1895.7 | 1874.4 | 1850.9 | 1848.0 | 1833.6 | 1836.3 | 1831.4 |
| 5° | 1910.7 | 1900.1 | 1857.8 | 1819.5 | 1774.3 | 1733.7 | 1689.8 | 1669.5 | 1640.3 | 1638.3 | 1630.9 |
| 7.5° | 1855.6 | 1835.9 | 1770.3 | 1697.7 | 1625.0 | 1555.7 | 1487.2 | 1442.3 | 1396.3 | 1376.8 | 1375.0 |
| 10° | 1793.6 | 1760.0 | 1663.6 | 1556.0 | 1451.2 | 1350.1 | 1252.1 | 1179.7 | 1114.5 | 1083.6 | 1082.4 |
| 12.5° | 1734.8 | 1685.1 | 1552.8 | 1406.5 | 1263.0 | 1132.0 | 997.7 | 902.6 | 820.7 | 793.3 | 781.7 |
| 15° | 1684.8 | 1614.8 | 1445.0 | 1257.8 | 1083.8 | 901.8 | 749.1 | 648.9 | 573.3 | 547.1 | 542.1 |
| 17.5° | 1636.3 | 1546.3 | 1334.5 | 1107.8 | 897.4 | 697.4 | 544.4 | 470.0 | 429.7 | 419.1 | 418.8 |
| 20° | 1588.1 | 1475.9 | 1219.1 | 954.2 | 717.2 | 521.6 | 418.5 | 385.2 | 371.5 | 370.3 | 368.3 |
| 22.5° | 1533.5 | 1401.2 | 1097.7 | 800.3 | 559.7 | 410.1 | 355.7 | 342.4 | 340.6 | 345.1 | 345.1 |
| 25° | 1482.4 | 1327.1 | 974.5 | 649.4 | 435.3 | 342.1 | 317.7 | 315.0 | 319.7 | 327.6 | 328.3 |
| 27.5° | 1434.6 | 1255.6 | 854.4 | 515.4 | 348.8 | 301.4 | 291.2 | 294.4 | 302.9 | 312.0 | 312.3 |
| 30° | 1395.3 | 1188.1 | 737.7 | 406.2 | 294.7 | 270.9 | 269.2 | 275.6 | 284.8 | 292.0 | 293.7 |
| 32.5° | 1364.9 | 1130.6 | 625.0 | 326.5 | 259.4 | 248.2 | 249.7 | 255.1 | 260.8 | 264.8 | 267.4 |
| 35° | 1350.8 | 1081.1 | 520.9 | 275.4 | 236.8 | 230.6 | 232.6 | 235.6 | 238.0 | 241.0 | 243.3 |
| 37.5° | 1353.3 | 1042.7 | 427.9 | 243.5 | 221.8 | 218.5 | 218.5 | 218.5 | 218.5 | 220.0 | 220.3 |
| 40° | 1376.3 | 1020.7 | 352.3 | 223.2 | 211.6 | 208.2 | 205.4 | 203.0 | 201.0 | 202.0 | 201.5 |
| 42.5° | 1435.1 | 1018.8 | 296.9 | 210.4 | 203.5 | 197.7 | 192.3 | 188.9 | 186.4 | 187.4 | 187.9 |
| 45° | 1535.0 | 1043.5 | 259.6 | 201.2 | 195.8 | 187.1 | 180.2 | 176.5 | 174.8 | 178.0 | 178.5 |
| 47.5° | 1664.2 | 1097.4 | 236.8 | 194.5 | 188.6 | 177.3 | 169.8 | 166.4 | 166.8 | 171.5 | 172.8 |
| 50° | 1830.9 | 1185.0 | 225.9 | 190.3 | 183.7 | 168.8 | 161.2 | 158.2 | 159.7 | 166.4 | 167.9 |
| 52.5° | 2013.9 | 1311.0 | 227.2 | 189.1 | 180.5 | 162.7 | 154.5 | 151.1 | 153.5 | 159.7 | 160.9 |
| 55° | 2225.0 | 1462.5 | 247.7 | 190.9 | 175.8 | 158.8 | 149.1 | 143.2 | 145.1 | 150.8 | 151.8 |
| 57.5° | 2459.6 | 1636.0 | 289.0 | 190.3 | 169.8 | 155.0 | 143.4 | 134.5 | 135.9 | 139.4 | 140.4 |
| 60° | 2703.9 | 1845.7 | 353.0 | 191.8 | 167.1 | 150.6 | 135.7 | 124.6 | 124.1 | 127.1 | 127.6 |
| 62.5° | 2997.0 | 2088.3 | 426.2 | 192.9 | 168.8 | 144.9 | 125.6 | 114.7 | 113.2 | 113.9 | 114.4 |
| 65° | 3299.2 | 2263.8 | 398.8 | 188.9 | 174.3 | 140.2 | 116.7 | 105.0 | 102.4 | 101.8 | 102.1 |
| 67.5° | 3308.5 | 2075.7 | 279.6 | 180.9 | 176.5 | 137.7 | 110.0 | 96.9 | 92.4 | 90.7 | 90.5 |
| 70° | 2967.1 | 1686.3 | 217.8 | 172.6 | 167.6 | 133.8 | 103.8 | 90.3 | 83.6 | 80.9 | 80.6 |
| 71° | 2800.5 | 1552.3 | 206.4 | 168.3 | 160.9 | 129.8 | 101.1 | 87.3 | 80.3 | 77.4 | 76.8 |
| 72.5° | 2539.2 | 1391.6 | 192.6 | 161.7 | 148.0 | 119.7 | 95.9 | 83.0 | 75.9 | 72.4 | 71.7 |
| 75° | 1822.2 | 910.0 | 165.4 | 144.1 | 122.6 | 95.4 | 84.1 | 74.7 | 68.5 | 64.3 | 63.8 |
| 77.5° | 702.1 | 362.1 | 125.1 | 119.9 | 93.9 | 74.7 | 69.2 | 64.5 | 60.0 | 55.9 | 55.6 |
| 80° | 217.1 | 162.0 | 91.2 | 90.3 | 68.0 | 55.6 | 53.9 | 52.7 | 50.9 | 46.5 | 45.5 |
| 82.5° | 115.9 | 93.0 | 62.8 | 58.3 | 44.5 | 37.1 | 39.1 | 39.5 | 39.8 | 35.1 | 34.6 |
| 85° | 55.3 | 49.2 | 35.3 | 33.2 | 25.9 | 20.8 | 24.0 | 25.9 | 26.2 | 21.5 | 20.0 |
| 87.5° | 26.5 | 25.7 | 16.5 | 12.6 | 9.7 | 7.0 | 8.4 | 10.4 | 11.4 | 8.2 | 7.1 |
| 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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