

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: P386413

Luminaire Tested: **GWC-SA2A-750-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA2A-750-U-SL2
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9527 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

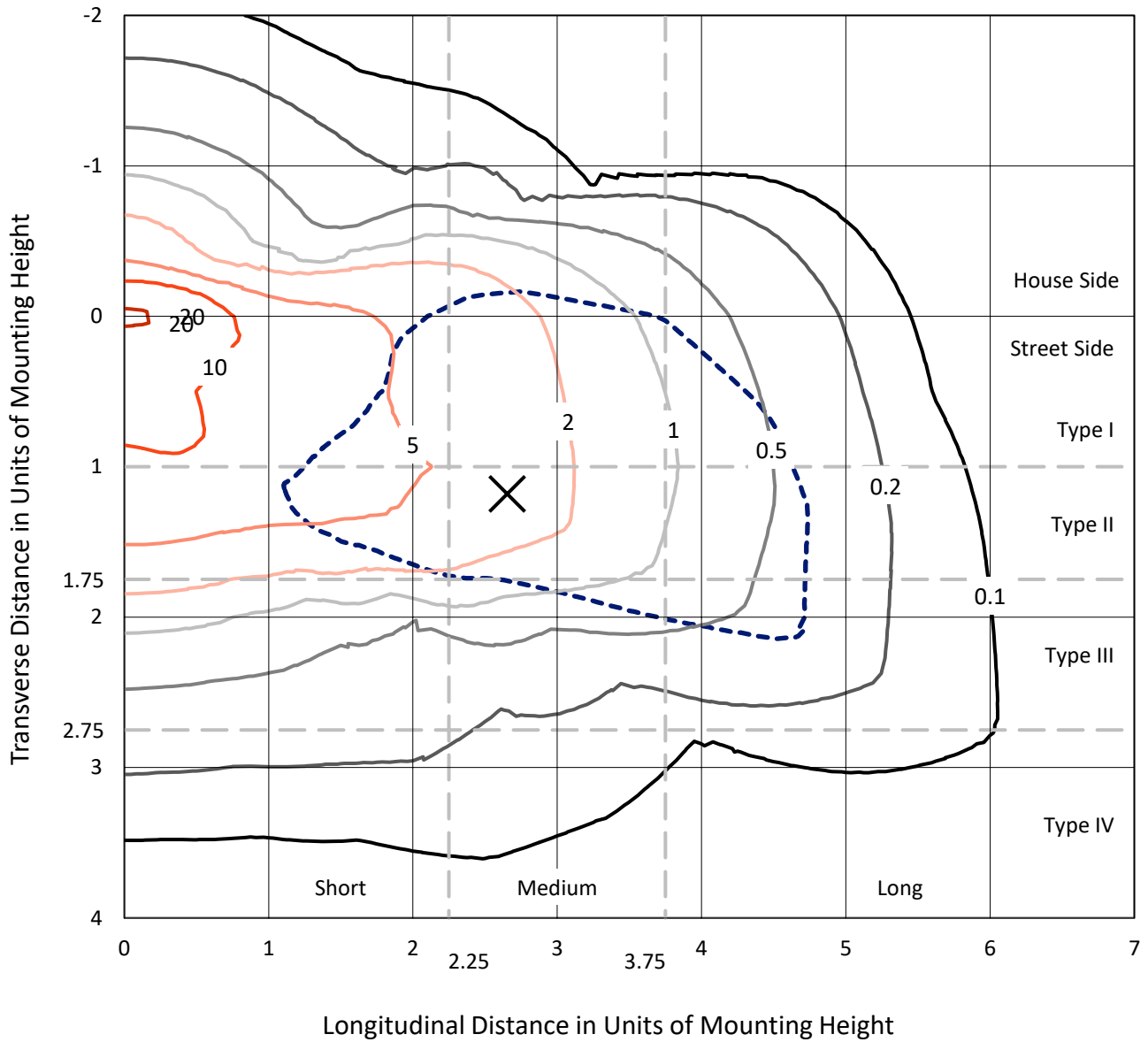
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

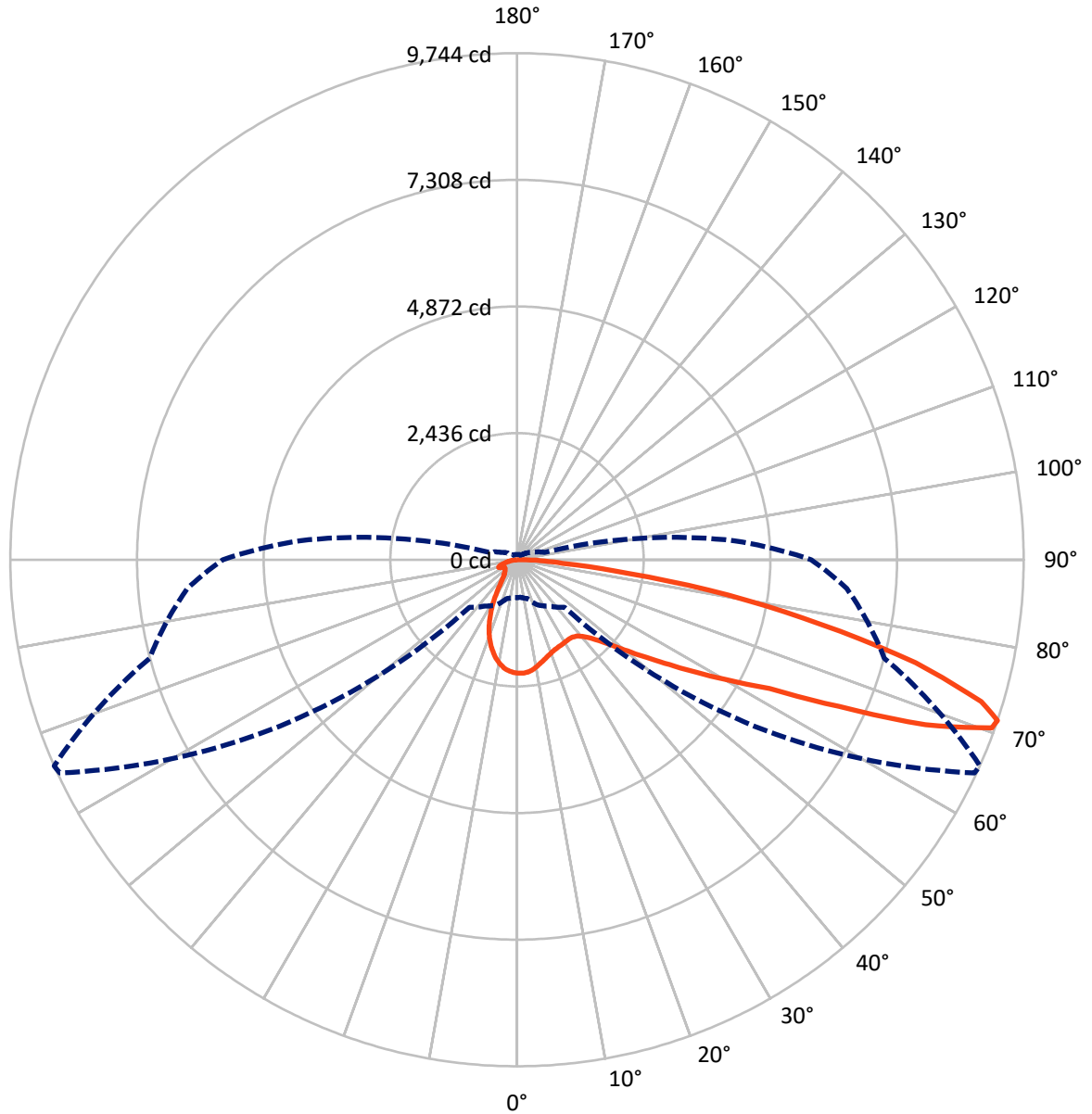
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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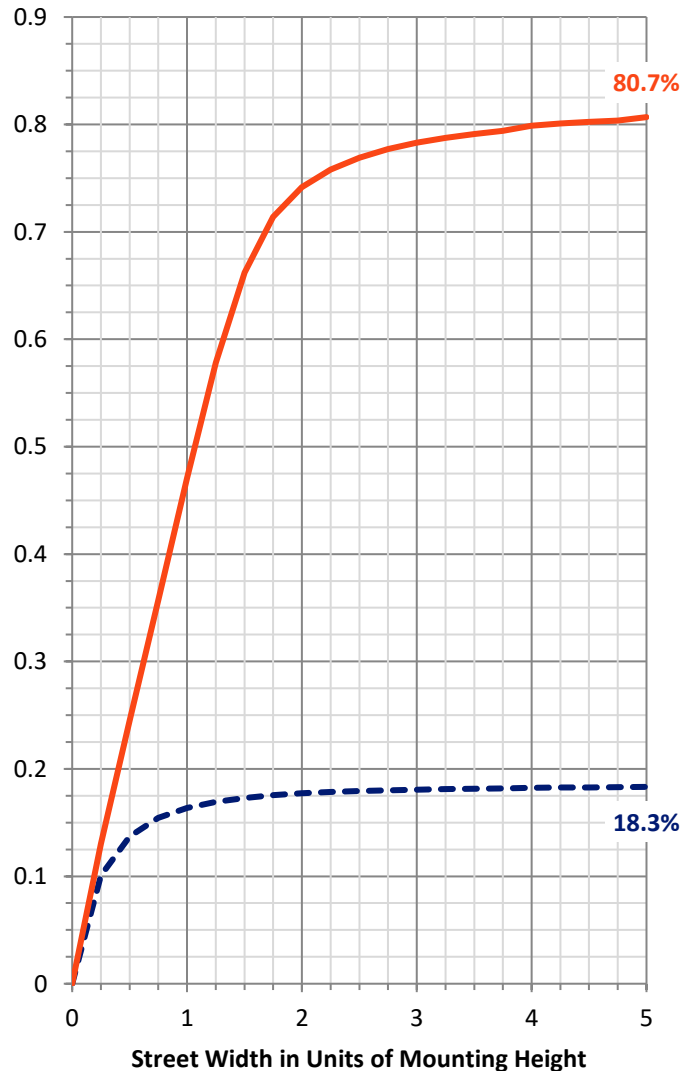
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1765.6 | 0.0 | 1765.6 |
| | % Fixture | 18.5 | 0.0 | 18.5 |
| Street Side | Lumens | 7761.4 | 0.0 | 7761.4 |
| | % Fixture | 81.5 | 0.0 | 81.5 |
| Total | Lumens | 9527.0 | 0.0 | 9527.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 192.1 | 2.0 |
| 10°-20° | 460.8 | 4.8 |
| 20°-30° | 618.9 | 6.5 |
| 30°-40° | 814.2 | 8.5 |
| 40°-50° | 1184.4 | 12.4 |
| 50°-60° | 1850.2 | 19.4 |
| 60°-70° | 2317.6 | 24.3 |
| 70°-80° | 1767.8 | 18.6 |
| 80°-90° | 321.0 | 3.4 |
| 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° | 9527.0 | 100.0 |
| 0°-180° | 9527.0 | 100.0 |

Coefficient of Utilization



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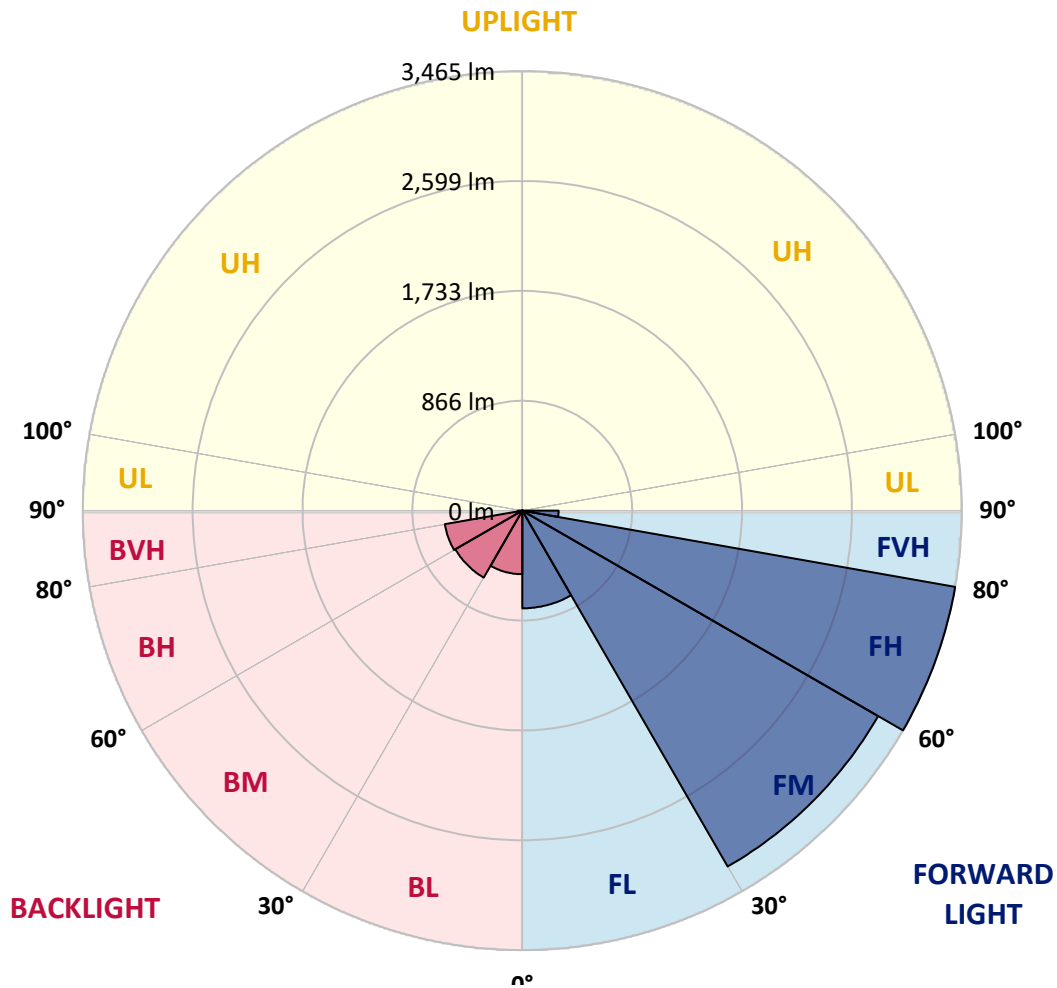
CATALOG NUMBER: GWC-SA2A-750-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 770.4 | 8.1 | | | |
| FM (30°-60°) | 3239.7 | 34.0 | | | |
| FH (60°-80°) | 3465.1 | 36.4 | | | G2/5000 |
| FVH (80°-90°) | 286.3 | 3.0 | | | G3/500 |
| BL (0°-30°) | 501.4 | 5.3 | B2/1000 | | |
| BM (30°-60°) | 609.1 | 6.4 | B1/1000 | | |
| BH (60°-80°) | 620.4 | 6.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 34.8 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2182.5 | 2182.5 | 2182.5 | 2182.5 | 2182.5 | 2182.5 | 2182.5 | 2182.5 | 2182.5 | 2182.5 | 2182.5 |
| 2.5° | 2142.0 | 2138.7 | 2148.6 | 2158.8 | 2162.7 | 2169.3 | 2179.2 | 2184.8 | 2184.4 | 2185.4 | 2182.1 |
| 5° | 1999.9 | 1995.6 | 2015.4 | 2031.5 | 2062.4 | 2097.3 | 2139.7 | 2170.0 | 2170.6 | 2187.7 | 2192.3 |
| 7.5° | 1865.4 | 1862.4 | 1885.1 | 1911.1 | 1946.9 | 2000.2 | 2069.0 | 2134.1 | 2138.0 | 2184.4 | 2200.5 |
| 10° | 1757.5 | 1756.8 | 1778.9 | 1807.1 | 1848.9 | 1908.5 | 1987.4 | 2082.8 | 2088.7 | 2168.6 | 2201.9 |
| 12.5° | 1673.3 | 1674.6 | 1693.7 | 1725.9 | 1770.0 | 1832.1 | 1917.7 | 2025.2 | 2034.8 | 2143.6 | 2194.3 |
| 15° | 1611.1 | 1616.4 | 1631.8 | 1664.4 | 1707.8 | 1771.0 | 1858.8 | 1971.9 | 1986.4 | 2115.7 | 2190.0 |
| 17.5° | 1575.6 | 1581.5 | 1592.4 | 1619.3 | 1660.1 | 1721.0 | 1804.2 | 1928.2 | 1941.3 | 2094.3 | 2190.3 |
| 20° | 1565.0 | 1570.0 | 1576.2 | 1592.7 | 1627.2 | 1682.5 | 1761.1 | 1888.7 | 1902.9 | 2077.2 | 2193.6 |
| 22.5° | 1585.8 | 1589.4 | 1590.0 | 1588.7 | 1609.8 | 1654.8 | 1729.8 | 1859.8 | 1874.9 | 2066.0 | 2195.9 |
| 25° | 1630.2 | 1635.1 | 1631.5 | 1619.3 | 1612.4 | 1640.0 | 1713.7 | 1840.7 | 1855.8 | 2057.8 | 2191.3 |
| 27.5° | 1697.0 | 1697.6 | 1694.6 | 1678.9 | 1646.3 | 1641.7 | 1708.8 | 1829.5 | 1844.0 | 2048.2 | 2181.8 |
| 30° | 1787.7 | 1792.0 | 1786.7 | 1765.4 | 1712.1 | 1668.0 | 1714.7 | 1818.7 | 1831.8 | 2036.1 | 2166.3 |
| 32.5° | 1894.0 | 1904.5 | 1904.2 | 1881.8 | 1805.5 | 1726.9 | 1739.1 | 1812.1 | 1822.3 | 2023.2 | 2147.6 |
| 35° | 2004.2 | 2018.6 | 2045.6 | 2036.1 | 1941.7 | 1820.0 | 1785.8 | 1822.6 | 1829.5 | 2021.6 | 2134.4 |
| 37.5° | 2118.6 | 2133.1 | 2188.7 | 2214.4 | 2103.8 | 1953.2 | 1859.4 | 1859.8 | 1863.1 | 2041.7 | 2133.4 |
| 40° | 2238.4 | 2253.8 | 2337.4 | 2404.2 | 2314.0 | 2121.9 | 1978.2 | 1937.4 | 1933.8 | 2091.0 | 2152.8 |
| 42.5° | 2406.1 | 2419.9 | 2520.3 | 2605.5 | 2547.2 | 2338.0 | 2142.3 | 2057.1 | 2049.6 | 2187.7 | 2215.0 |
| 45° | 2618.3 | 2630.1 | 2736.7 | 2827.8 | 2797.9 | 2584.7 | 2348.6 | 2221.9 | 2220.6 | 2348.9 | 2341.0 |
| 47.5° | 2870.6 | 2879.8 | 2975.5 | 3063.7 | 3074.5 | 2868.6 | 2607.8 | 2476.2 | 2454.8 | 2569.9 | 2536.1 |
| 50° | 3133.4 | 3143.6 | 3208.7 | 3303.4 | 3384.0 | 3248.5 | 2941.3 | 2787.7 | 2759.1 | 2861.7 | 2812.4 |
| 52.5° | 3307.4 | 3320.9 | 3377.5 | 3497.5 | 3732.0 | 3664.9 | 3335.7 | 3165.3 | 3121.9 | 3215.3 | 3177.5 |
| 55° | 3229.8 | 3260.0 | 3346.5 | 3539.0 | 4010.3 | 4301.1 | 3822.2 | 3605.7 | 3556.7 | 3634.3 | 3612.0 |
| 57.5° | 2876.8 | 2918.3 | 3036.4 | 3333.4 | 4049.5 | 4861.6 | 4557.7 | 4124.5 | 4089.9 | 4067.5 | 4077.7 |
| 60° | 2231.8 | 2271.6 | 2418.0 | 2805.1 | 3776.8 | 5270.8 | 5664.5 | 4763.9 | 4713.9 | 4502.4 | 4511.6 |
| 62.5° | 1579.5 | 1559.5 | 1659.8 | 1943.0 | 3068.9 | 5318.8 | 6924.0 | 5619.1 | 5454.6 | 4961.6 | 4921.1 |
| 65° | 1204.5 | 1199.9 | 1245.0 | 1335.1 | 1858.8 | 4744.2 | 7674.3 | 7056.5 | 6799.6 | 5501.7 | 5406.3 |
| 67.5° | 989.8 | 981.5 | 1025.9 | 1157.2 | 1197.0 | 3060.7 | 7690.7 | 8724.2 | 8471.9 | 6174.0 | 5967.4 |
| 70° | 813.8 | 804.6 | 846.0 | 1015.4 | 1106.2 | 1552.2 | 6472.7 | 9700.8 | 9687.3 | 7025.3 | 6391.1 |
| 71° | 729.6 | 723.0 | 772.7 | 960.8 | 1086.8 | 1293.7 | 5588.5 | 9703.4 | 9743.9 | 7313.4 | 6366.1 |
| 72.5° | 594.0 | 596.4 | 649.0 | 855.2 | 1072.3 | 1142.4 | 4107.4 | 9251.2 | 9336.7 | 7588.1 | 6138.8 |
| 75° | 394.7 | 396.7 | 465.8 | 657.9 | 1039.7 | 1117.7 | 2257.4 | 7762.8 | 7920.0 | 7423.6 | 5601.7 |
| 77.5° | 265.1 | 264.5 | 311.5 | 451.3 | 905.9 | 1117.7 | 1323.6 | 5805.9 | 5978.6 | 5906.9 | 4318.5 |
| 80° | 182.6 | 181.2 | 214.5 | 311.5 | 685.8 | 1131.2 | 1023.3 | 4068.9 | 4121.2 | 3190.0 | 1755.2 |
| 82.5° | 111.8 | 112.8 | 140.1 | 220.1 | 466.8 | 1018.0 | 966.1 | 2218.6 | 2161.7 | 894.7 | 438.5 |
| 85° | 64.1 | 63.8 | 89.5 | 149.0 | 299.7 | 859.2 | 942.1 | 954.9 | 875.9 | 269.4 | 158.5 |
| 87.5° | 23.0 | 24.7 | 48.0 | 82.6 | 171.7 | 598.3 | 799.3 | 496.7 | 447.7 | 121.7 | 71.7 |
| 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-SA2A-750-U-SL2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2182.5 | 2182.5 | 2182.5 | 2182.5 | 2182.5 | 2182.5 | 2182.5 | 2182.5 | 2182.5 | 2182.5 | 2182.5 |
| 2.5° | 2179.8 | 2181.8 | 2179.5 | 2166.3 | 2155.2 | 2137.1 | 2126.9 | 2112.7 | 2108.4 | 2106.5 | 2111.7 |
| 5° | 2188.0 | 2188.7 | 2169.3 | 2134.8 | 2095.9 | 2050.2 | 2017.3 | 1976.9 | 1957.8 | 1949.6 | 1954.8 |
| 7.5° | 2195.6 | 2192.6 | 2150.2 | 2084.1 | 2012.4 | 1932.8 | 1862.1 | 1797.3 | 1759.4 | 1744.0 | 1745.3 |
| 10° | 2196.6 | 2184.1 | 2116.0 | 2013.7 | 1902.5 | 1785.8 | 1677.2 | 1577.2 | 1514.1 | 1472.9 | 1485.4 |
| 12.5° | 2186.4 | 2165.3 | 2065.7 | 1922.6 | 1768.3 | 1609.1 | 1462.4 | 1312.4 | 1222.3 | 1180.5 | 1181.8 |
| 15° | 2178.5 | 2140.3 | 2003.8 | 1815.4 | 1608.1 | 1397.3 | 1197.0 | 1020.7 | 924.6 | 881.9 | 861.8 |
| 17.5° | 2171.9 | 2113.4 | 1932.1 | 1694.6 | 1419.0 | 1151.6 | 910.8 | 753.6 | 701.0 | 688.5 | 683.2 |
| 20° | 2162.7 | 2084.8 | 1852.2 | 1554.9 | 1203.6 | 876.6 | 665.1 | 587.5 | 587.8 | 602.3 | 604.2 |
| 22.5° | 2149.9 | 2052.2 | 1767.0 | 1398.0 | 972.3 | 638.5 | 521.4 | 499.0 | 521.7 | 549.3 | 554.2 |
| 25° | 2130.8 | 2013.7 | 1672.3 | 1224.6 | 741.4 | 490.8 | 445.4 | 444.4 | 472.0 | 501.0 | 505.2 |
| 27.5° | 2103.8 | 1963.4 | 1567.0 | 1038.4 | 546.4 | 417.1 | 399.0 | 405.9 | 426.3 | 447.3 | 449.0 |
| 30° | 2067.7 | 1904.8 | 1450.9 | 842.1 | 428.3 | 371.4 | 369.4 | 375.6 | 388.1 | 402.9 | 404.3 |
| 32.5° | 2027.9 | 1845.3 | 1326.9 | 651.9 | 366.8 | 346.7 | 348.7 | 351.6 | 357.5 | 363.5 | 364.8 |
| 35° | 1991.7 | 1784.4 | 1199.9 | 495.4 | 337.5 | 330.6 | 329.3 | 328.6 | 329.3 | 327.3 | 327.6 |
| 37.5° | 1968.3 | 1734.1 | 1067.7 | 394.4 | 320.7 | 316.4 | 312.5 | 307.5 | 302.0 | 298.7 | 299.3 |
| 40° | 1959.8 | 1696.6 | 933.8 | 340.8 | 306.9 | 303.9 | 296.4 | 285.8 | 279.3 | 277.3 | 277.3 |
| 42.5° | 1982.8 | 1677.2 | 804.6 | 313.8 | 295.4 | 290.4 | 277.9 | 265.8 | 260.8 | 260.5 | 260.2 |
| 45° | 2053.2 | 1685.1 | 681.5 | 299.0 | 284.9 | 275.3 | 258.9 | 248.7 | 245.4 | 246.0 | 245.7 |
| 47.5° | 2179.5 | 1734.8 | 576.3 | 289.1 | 274.3 | 261.8 | 243.4 | 235.2 | 231.2 | 231.2 | 231.6 |
| 50° | 2394.3 | 1850.9 | 492.4 | 280.9 | 265.4 | 249.3 | 232.2 | 222.0 | 216.8 | 216.4 | 216.4 |
| 52.5° | 2707.1 | 2058.8 | 440.1 | 274.0 | 255.6 | 238.1 | 221.0 | 208.2 | 202.0 | 200.6 | 200.0 |
| 55° | 3099.2 | 2356.8 | 425.6 | 269.4 | 242.4 | 226.0 | 207.6 | 194.7 | 187.8 | 184.9 | 184.5 |
| 57.5° | 3537.6 | 2719.3 | 454.3 | 263.8 | 228.9 | 211.5 | 192.8 | 180.6 | 173.3 | 169.7 | 169.4 |
| 60° | 3981.4 | 3115.0 | 571.0 | 255.9 | 217.8 | 195.7 | 177.6 | 166.4 | 159.2 | 155.3 | 154.6 |
| 62.5° | 4425.8 | 3532.1 | 809.5 | 255.2 | 209.9 | 180.6 | 162.2 | 152.6 | 145.7 | 141.4 | 140.5 |
| 65° | 4927.0 | 3988.6 | 1080.5 | 272.7 | 207.2 | 166.8 | 146.4 | 138.8 | 132.9 | 128.9 | 128.6 |
| 67.5° | 5502.7 | 4504.0 | 1054.5 | 308.5 | 216.1 | 154.3 | 131.6 | 125.7 | 121.4 | 118.1 | 117.8 |
| 70° | 5772.7 | 4423.5 | 655.6 | 333.9 | 228.6 | 142.1 | 117.4 | 113.2 | 109.9 | 107.6 | 106.6 |
| 71° | 5659.6 | 4200.1 | 549.6 | 330.9 | 227.3 | 136.8 | 111.8 | 108.5 | 105.3 | 103.3 | 102.3 |
| 72.5° | 5351.0 | 3830.4 | 458.5 | 307.9 | 212.5 | 127.3 | 104.6 | 101.3 | 98.4 | 96.0 | 95.4 |
| 75° | 4801.7 | 3420.9 | 367.1 | 246.0 | 169.4 | 107.6 | 91.8 | 88.2 | 85.9 | 84.5 | 83.2 |
| 77.5° | 3529.7 | 2441.3 | 283.9 | 194.4 | 124.7 | 87.8 | 78.3 | 75.7 | 73.4 | 71.4 | 70.4 |
| 80° | 1352.2 | 945.7 | 191.1 | 145.1 | 91.4 | 69.4 | 63.2 | 61.8 | 59.5 | 58.2 | 58.2 |
| 82.5° | 364.1 | 282.6 | 102.0 | 87.8 | 61.2 | 50.7 | 48.4 | 47.7 | 45.7 | 43.1 | 43.4 |
| 85° | 147.4 | 124.7 | 57.2 | 48.4 | 37.5 | 29.9 | 32.6 | 32.9 | 30.6 | 27.3 | 27.6 |
| 87.5° | 64.8 | 53.0 | 31.9 | 21.4 | 16.4 | 11.5 | 14.8 | 14.8 | 13.5 | 11.2 | 10.2 |
| 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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