

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: P199999

Luminaire Tested: **GWC-AF-01-LED-E1-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-SLL-7030
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5404 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

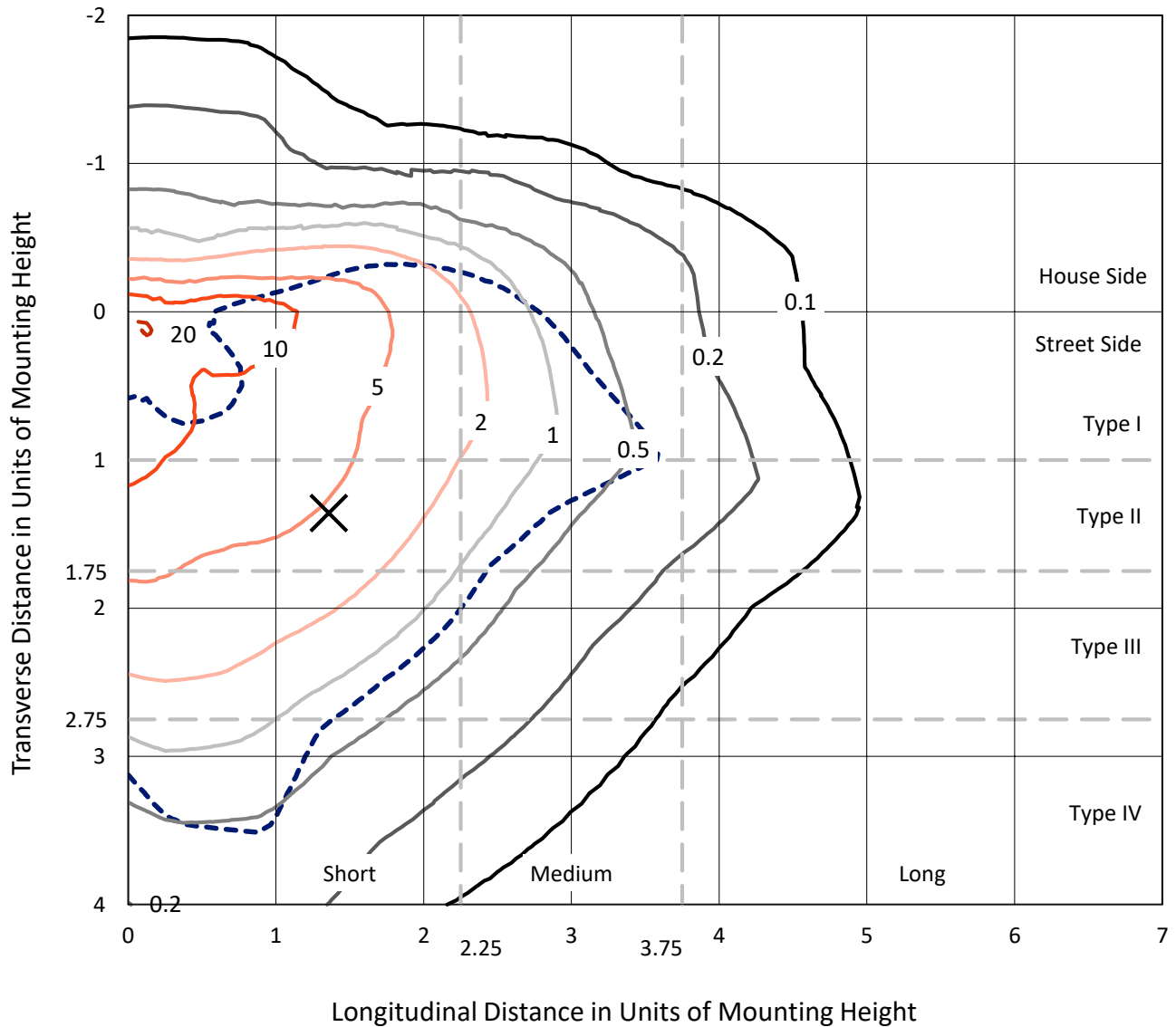
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

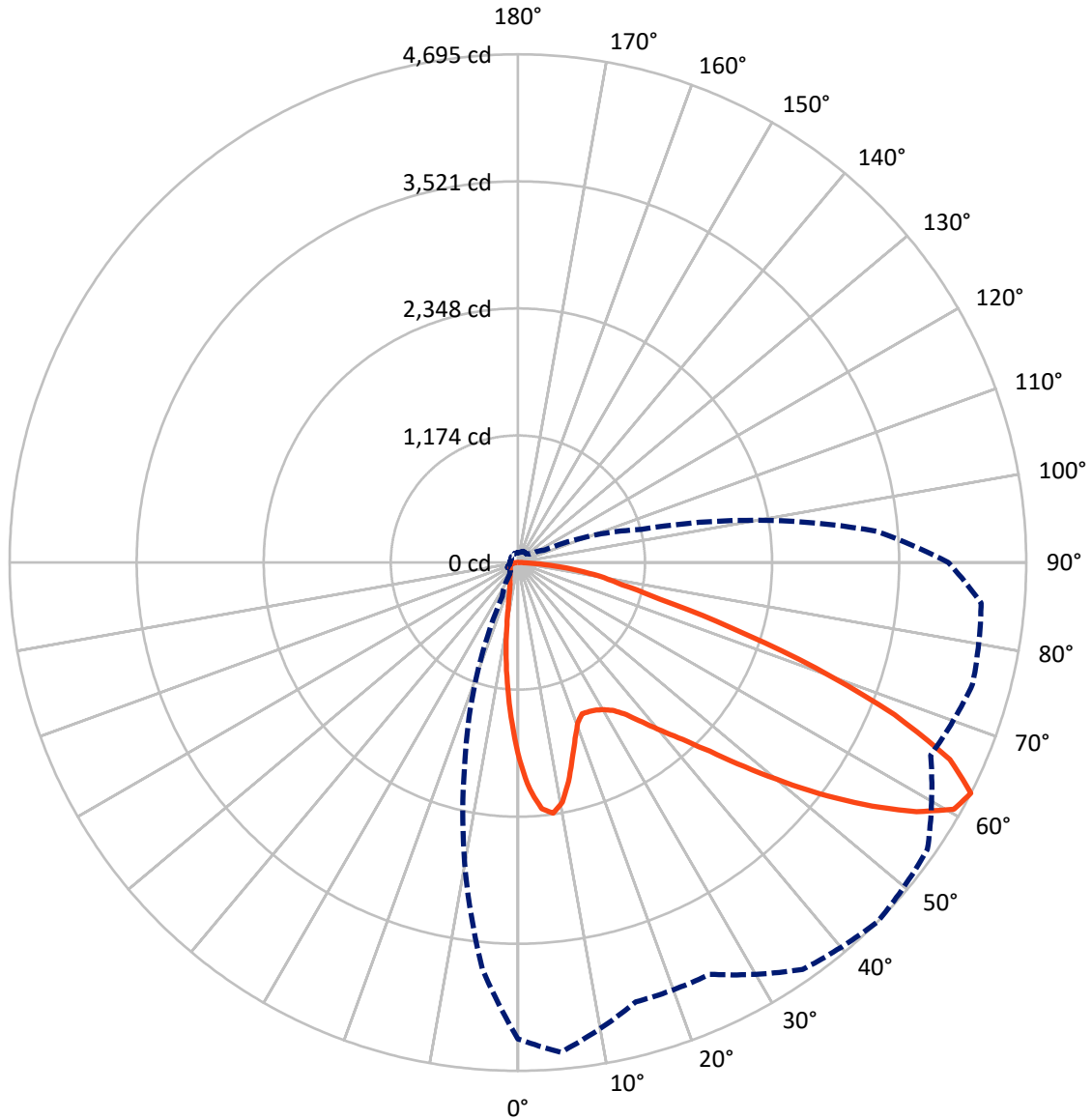
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 894.3 | 0.0 | 894.3 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 4509.7 | 0.0 | 4509.7 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 5404.0 | 0.0 | 5404.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 132.9 | 2.5 |
| 10°-20° | 243.7 | 4.5 |
| 20°-30° | 355.3 | 6.6 |
| 30°-40° | 547.3 | 10.1 |
| 40°-50° | 805.4 | 14.9 |
| 50°-60° | 1181.4 | 21.9 |
| 60°-70° | 1320.6 | 24.4 |
| 70°-80° | 646.6 | 12.0 |
| 80°-90° | 170.7 | 3.2 |
| 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° | 5404.0 | 100.0 |
| 0°-180° | 5404.0 | 100.0 |



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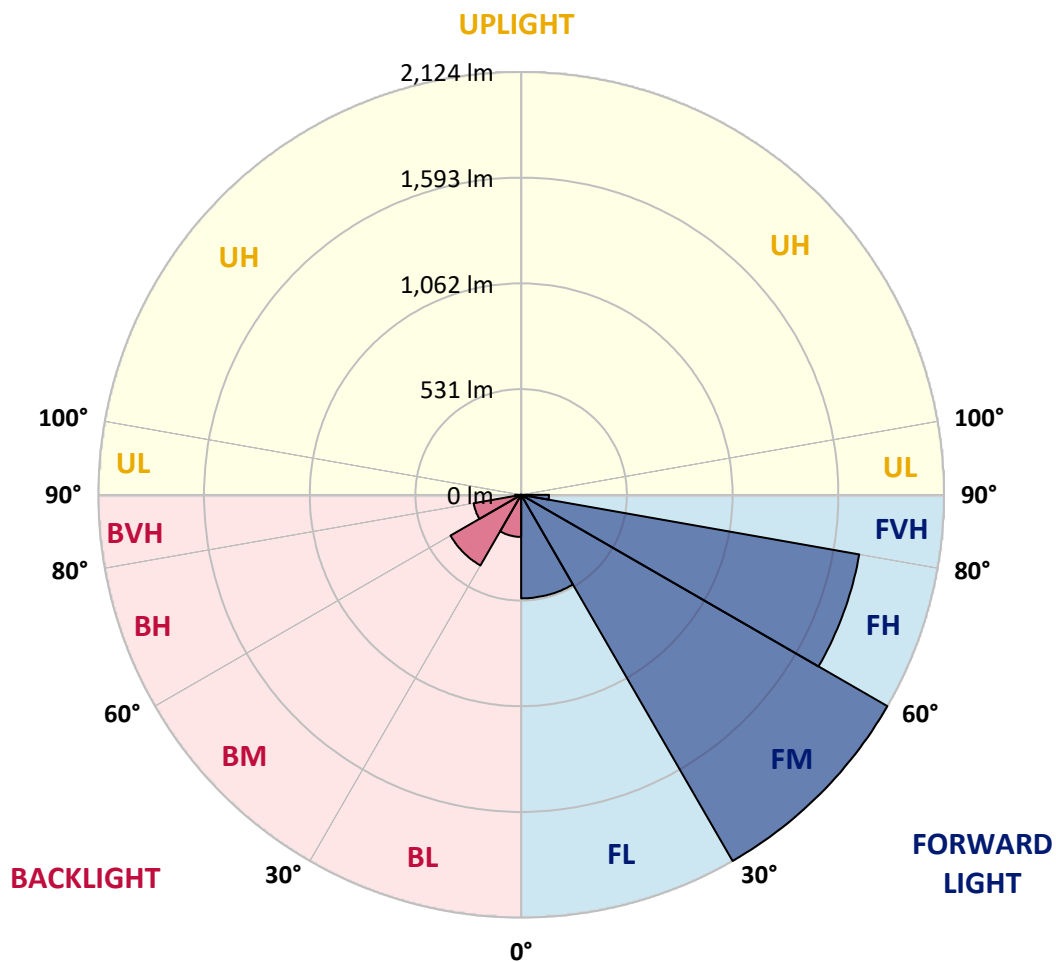
CATALOG NUMBER: GWC-AF-01-LED-E1-SLL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 520.4 | 9.6 | | | |
| FM | (30°-60°) | 2124.3 | 39.3 | | | |
| FH | (60°-80°) | 1724.8 | 31.9 | | | G1/1800 |
| FVH | (80°-90°) | 140.2 | 2.6 | | | G2/225 |
| BL | (0°-30°) | 211.6 | 3.9 | B1/500 | | |
| BM | (30°-60°) | 409.8 | 7.6 | B1/1000 | | |
| BH | (60°-80°) | 242.4 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 30.5 | 0.6 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 |
| 2.5° | 1897.1 | 1927.4 | 1986.5 | 2030.7 | 2084.4 | 2097.0 | 2114.1 | 2097.2 | 2067.3 | 2027.5 | 2014.4 |
| 5° | 1783.8 | 1848.6 | 1992.2 | 2118.3 | 2230.6 | 2283.0 | 2297.5 | 2254.4 | 2167.3 | 2053.0 | 1983.2 |
| 7.5° | 1602.4 | 1694.5 | 1888.8 | 2074.8 | 2240.2 | 2337.9 | 2335.5 | 2235.5 | 2075.3 | 1889.0 | 1777.0 |
| 10° | 1445.8 | 1550.9 | 1773.8 | 1981.8 | 2157.4 | 2252.1 | 2215.4 | 2087.5 | 1896.4 | 1681.9 | 1560.4 |
| 12.5° | 1358.2 | 1461.3 | 1687.3 | 1896.2 | 2042.9 | 2075.6 | 2047.6 | 1922.3 | 1742.2 | 1525.4 | 1419.1 |
| 15° | 1343.1 | 1456.2 | 1652.9 | 1822.8 | 1905.1 | 1876.5 | 1843.3 | 1787.2 | 1659.9 | 1474.9 | 1364.1 |
| 17.5° | 1408.7 | 1533.5 | 1692.3 | 1771.6 | 1757.8 | 1708.2 | 1698.7 | 1704.9 | 1674.3 | 1531.0 | 1403.3 |
| 20° | 1534.6 | 1684.3 | 1786.5 | 1747.6 | 1645.8 | 1577.3 | 1579.8 | 1675.2 | 1765.7 | 1673.3 | 1527.5 |
| 22.5° | 1711.3 | 1882.2 | 1922.3 | 1760.3 | 1598.5 | 1517.4 | 1537.0 | 1691.5 | 1911.6 | 1881.3 | 1695.0 |
| 25° | 1940.1 | 2095.8 | 2066.9 | 1806.7 | 1603.3 | 1524.8 | 1540.5 | 1747.9 | 2083.9 | 2089.2 | 1902.4 |
| 27.5° | 2161.7 | 2306.1 | 2188.5 | 1868.3 | 1622.8 | 1542.3 | 1563.2 | 1836.7 | 2248.4 | 2314.9 | 2139.4 |
| 30° | 2334.7 | 2435.1 | 2236.5 | 1924.4 | 1661.5 | 1576.5 | 1602.4 | 1921.1 | 2323.3 | 2467.4 | 2321.9 |
| 32.5° | 2477.8 | 2550.0 | 2313.2 | 1993.9 | 1732.6 | 1630.2 | 1675.7 | 2023.6 | 2431.1 | 2612.4 | 2500.4 |
| 35° | 2660.8 | 2681.3 | 2408.6 | 2071.4 | 1842.1 | 1723.9 | 1780.3 | 2124.0 | 2533.9 | 2758.8 | 2676.2 |
| 37.5° | 2875.2 | 2848.8 | 2498.6 | 2177.4 | 1983.8 | 1870.3 | 1917.0 | 2234.3 | 2618.6 | 2924.9 | 2855.9 |
| 40° | 3087.3 | 3023.9 | 2611.6 | 2342.1 | 2190.5 | 2042.9 | 2098.1 | 2351.8 | 2697.6 | 3091.3 | 3031.5 |
| 42.5° | 3267.7 | 3173.6 | 2722.8 | 2522.9 | 2383.1 | 2233.4 | 2299.3 | 2470.4 | 2773.1 | 3233.2 | 3184.0 |
| 45° | 3401.0 | 3284.0 | 2828.9 | 2696.7 | 2648.3 | 2486.4 | 2517.7 | 2606.2 | 2854.7 | 3351.7 | 3309.3 |
| 47.5° | 3520.3 | 3395.1 | 2948.9 | 2872.0 | 2880.3 | 2815.6 | 2765.4 | 2764.2 | 2951.0 | 3448.7 | 3427.8 |
| 50° | 3679.8 | 3549.3 | 3077.9 | 3052.6 | 3228.5 | 3185.5 | 3074.5 | 2948.7 | 3072.8 | 3558.5 | 3556.2 |
| 52.5° | 3899.6 | 3793.5 | 3235.2 | 3247.1 | 3553.4 | 3581.7 | 3444.4 | 3170.2 | 3263.6 | 3760.2 | 3746.0 |
| 55° | 4159.5 | 4097.7 | 3449.8 | 3470.8 | 3952.1 | 3972.3 | 3836.0 | 3447.4 | 3544.0 | 4052.2 | 4012.8 |
| 57.5° | 4362.4 | 4349.3 | 3685.1 | 3739.4 | 4249.7 | 4340.7 | 4215.3 | 3768.3 | 3860.0 | 4298.3 | 4199.0 |
| 60° | 4443.1 | 4506.4 | 3935.5 | 4010.4 | 4525.2 | 4625.8 | 4515.9 | 4050.1 | 4140.2 | 4400.1 | 4186.2 |
| 62.5° | 4399.6 | 4541.0 | 4202.2 | 4196.0 | 4586.7 | 4695.1 | 4617.9 | 4207.0 | 4347.9 | 4295.0 | 3974.5 |
| 65° | 4197.8 | 4417.1 | 4357.0 | 4148.1 | 4376.4 | 4385.2 | 4360.3 | 4136.9 | 4396.8 | 3962.5 | 3565.0 |
| 67.5° | 3758.4 | 4074.0 | 4153.3 | 3738.2 | 3809.0 | 3751.0 | 3709.2 | 3753.0 | 4141.4 | 3464.4 | 2996.2 |
| 70° | 3061.2 | 3535.9 | 3574.0 | 2990.0 | 2957.8 | 2919.0 | 2835.5 | 3077.0 | 3637.2 | 2839.3 | 2377.4 |
| 72.5° | 2250.8 | 2749.9 | 2866.6 | 2193.0 | 2044.4 | 2052.4 | 1986.5 | 2318.9 | 2957.2 | 2109.1 | 1774.9 |
| 75° | 1540.0 | 1991.2 | 2242.9 | 1530.1 | 1352.0 | 1355.3 | 1346.8 | 1643.0 | 2355.4 | 1467.3 | 1328.1 |
| 77.5° | 1125.0 | 1422.7 | 1691.5 | 1028.6 | 998.7 | 980.3 | 975.9 | 1149.6 | 1805.8 | 1065.3 | 1031.4 |
| 80° | 902.8 | 1051.0 | 1136.3 | 712.9 | 766.7 | 765.3 | 740.6 | 790.5 | 1179.4 | 779.2 | 771.5 |
| 82.5° | 626.2 | 807.8 | 920.6 | 558.8 | 517.5 | 508.8 | 514.8 | 588.8 | 833.5 | 532.6 | 506.5 |
| 85° | 330.3 | 536.5 | 911.7 | 495.2 | 307.1 | 245.1 | 304.9 | 482.2 | 722.2 | 282.2 | 247.2 |
| 87.5° | 42.2 | 155.0 | 603.6 | 197.5 | 121.2 | 65.3 | 144.7 | 271.5 | 463.7 | 57.6 | 50.1 |
| 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-AF-01-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 |
| 2.5° | 1980.9 | 1941.3 | 1889.6 | 1841.8 | 1792.2 | 1742.9 | 1678.4 | 1638.1 | 1610.1 | 1604.7 | 1592.9 |
| 5° | 1932.7 | 1801.3 | 1702.2 | 1616.3 | 1538.5 | 1428.6 | 1367.7 | 1317.2 | 1290.2 | 1287.5 | 1280.9 |
| 7.5° | 1710.8 | 1529.6 | 1395.6 | 1274.1 | 1163.9 | 1075.1 | 977.0 | 931.3 | 912.6 | 917.0 | 921.5 |
| 10° | 1479.9 | 1277.4 | 1123.5 | 999.2 | 902.2 | 827.3 | 748.7 | 695.4 | 658.7 | 651.1 | 649.6 |
| 12.5° | 1311.2 | 1089.0 | 939.6 | 852.0 | 776.9 | 706.5 | 622.9 | 560.3 | 512.4 | 496.1 | 485.1 |
| 15° | 1240.0 | 997.0 | 840.4 | 745.9 | 663.1 | 573.6 | 496.1 | 430.5 | 386.4 | 372.2 | 364.2 |
| 17.5° | 1255.1 | 971.5 | 772.0 | 651.1 | 545.1 | 451.8 | 354.1 | 297.9 | 271.5 | 264.7 | 264.7 |
| 20° | 1334.7 | 966.6 | 715.6 | 563.8 | 431.7 | 323.5 | 243.3 | 211.2 | 202.5 | 201.7 | 204.1 |
| 22.5° | 1446.4 | 983.4 | 673.5 | 488.1 | 335.4 | 236.2 | 189.6 | 177.6 | 173.8 | 174.7 | 177.3 |
| 25° | 1612.7 | 1039.4 | 642.9 | 420.6 | 263.2 | 193.4 | 169.1 | 161.9 | 160.1 | 162.5 | 165.7 |
| 27.5° | 1810.0 | 1095.6 | 623.9 | 369.9 | 222.3 | 176.8 | 160.7 | 153.3 | 154.5 | 157.5 | 160.4 |
| 30° | 1983.2 | 1141.6 | 593.9 | 333.6 | 209.4 | 177.6 | 160.7 | 150.6 | 149.4 | 150.0 | 150.9 |
| 32.5° | 2138.5 | 1172.8 | 558.8 | 299.2 | 180.6 | 157.8 | 150.0 | 148.5 | 142.0 | 139.7 | 140.0 |
| 35° | 2272.5 | 1172.8 | 537.7 | 278.9 | 161.9 | 140.0 | 127.4 | 119.9 | 116.8 | 117.0 | 120.3 |
| 37.5° | 2401.7 | 1149.3 | 527.2 | 267.6 | 151.8 | 133.1 | 122.1 | 115.6 | 111.1 | 110.3 | 110.8 |
| 40° | 2515.8 | 1115.2 | 515.3 | 262.9 | 144.1 | 128.9 | 118.5 | 113.2 | 108.3 | 107.0 | 107.3 |
| 42.5° | 2607.4 | 1087.5 | 502.4 | 256.6 | 139.3 | 125.9 | 116.2 | 111.5 | 106.1 | 104.6 | 104.3 |
| 45° | 2706.3 | 1078.4 | 485.1 | 244.2 | 141.7 | 126.3 | 115.6 | 110.5 | 105.1 | 103.4 | 102.8 |
| 47.5° | 2836.7 | 1107.2 | 467.3 | 229.3 | 146.7 | 127.8 | 116.5 | 110.5 | 104.9 | 103.4 | 102.8 |
| 50° | 3001.0 | 1174.9 | 444.6 | 207.6 | 141.7 | 131.8 | 116.2 | 109.6 | 104.9 | 103.4 | 102.1 |
| 52.5° | 3211.9 | 1266.5 | 414.9 | 182.7 | 138.8 | 142.0 | 115.6 | 107.8 | 103.4 | 101.3 | 99.2 |
| 55° | 3468.2 | 1341.2 | 379.6 | 162.2 | 131.8 | 139.3 | 114.6 | 105.8 | 100.9 | 98.0 | 96.2 |
| 57.5° | 3656.0 | 1368.3 | 334.3 | 148.8 | 122.4 | 134.8 | 113.5 | 103.0 | 98.0 | 95.6 | 93.3 |
| 60° | 3618.7 | 1316.0 | 295.9 | 140.5 | 116.8 | 121.9 | 112.5 | 100.7 | 95.4 | 93.5 | 91.4 |
| 62.5° | 3321.5 | 1179.4 | 271.2 | 136.7 | 113.2 | 111.1 | 113.5 | 98.4 | 93.0 | 91.2 | 90.5 |
| 65° | 2875.6 | 977.7 | 261.4 | 135.8 | 110.3 | 104.9 | 105.4 | 95.6 | 90.3 | 88.8 | 88.3 |
| 67.5° | 2372.0 | 789.0 | 252.8 | 138.8 | 106.3 | 100.4 | 97.5 | 92.1 | 87.6 | 86.1 | 85.0 |
| 70° | 1870.6 | 656.2 | 248.9 | 136.9 | 101.6 | 95.9 | 92.7 | 88.3 | 84.3 | 82.9 | 82.0 |
| 72.5° | 1506.3 | 554.3 | 246.8 | 135.2 | 95.4 | 90.0 | 87.1 | 83.1 | 79.0 | 78.4 | 77.6 |
| 75° | 1274.7 | 435.8 | 226.0 | 129.5 | 88.3 | 82.9 | 80.9 | 77.2 | 73.1 | 73.1 | 72.4 |
| 77.5° | 983.4 | 315.2 | 188.0 | 114.6 | 80.9 | 74.9 | 73.1 | 70.4 | 65.7 | 66.5 | 66.2 |
| 80° | 726.3 | 205.5 | 147.1 | 95.0 | 71.6 | 66.0 | 65.0 | 62.4 | 57.4 | 58.6 | 58.6 |
| 82.5° | 497.5 | 134.8 | 105.8 | 77.8 | 61.1 | 55.8 | 55.8 | 53.2 | 47.5 | 48.1 | 49.9 |
| 85° | 249.8 | 92.7 | 79.0 | 60.3 | 47.5 | 44.9 | 44.9 | 42.8 | 37.1 | 37.4 | 39.8 |
| 87.5° | 76.1 | 55.8 | 52.3 | 43.0 | 34.2 | 33.6 | 32.1 | 30.6 | 27.0 | 26.8 | 28.2 |
| 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-AF-01-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 | 1825.7 |
| 2.5° | 1574.8 | 1557.8 | 1537.3 | 1492.2 | 1476.9 | 1476.1 | 1489.8 | 1475.5 | 1502.9 | 1491.3 | 1504.1 |
| 5° | 1269.9 | 1253.3 | 1230.5 | 1172.8 | 1137.7 | 1114.0 | 1102.7 | 1069.4 | 1093.4 | 1075.9 | 1090.5 |
| 7.5° | 933.9 | 937.9 | 922.7 | 888.9 | 812.5 | 774.1 | 751.6 | 731.4 | 748.9 | 747.2 | 775.0 |
| 10° | 656.5 | 666.9 | 656.2 | 622.0 | 560.3 | 539.2 | 543.3 | 551.3 | 574.2 | 586.0 | 629.3 |
| 12.5° | 472.6 | 472.0 | 465.2 | 434.7 | 393.9 | 396.3 | 413.2 | 427.2 | 448.3 | 460.7 | 504.7 |
| 15° | 352.9 | 347.6 | 344.6 | 319.7 | 296.4 | 301.5 | 309.9 | 311.3 | 324.7 | 332.1 | 367.7 |
| 17.5° | 266.8 | 269.5 | 272.7 | 254.9 | 237.3 | 234.1 | 227.6 | 219.5 | 223.4 | 224.8 | 242.7 |
| 20° | 211.9 | 222.5 | 230.5 | 218.1 | 200.3 | 190.7 | 182.4 | 177.0 | 177.0 | 176.8 | 181.8 |
| 22.5° | 185.0 | 192.9 | 201.4 | 192.9 | 176.8 | 168.5 | 163.7 | 159.5 | 159.0 | 159.0 | 163.7 |
| 25° | 170.6 | 176.1 | 184.4 | 178.5 | 166.6 | 160.4 | 155.9 | 150.6 | 148.5 | 147.9 | 151.3 |
| 27.5° | 163.4 | 165.7 | 169.9 | 164.6 | 154.5 | 151.6 | 150.3 | 145.6 | 142.9 | 141.4 | 144.7 |
| 30° | 151.3 | 150.6 | 150.9 | 145.6 | 137.5 | 137.2 | 139.3 | 140.2 | 139.3 | 139.0 | 144.1 |
| 32.5° | 140.0 | 138.8 | 138.4 | 133.7 | 126.3 | 124.4 | 126.3 | 128.1 | 130.1 | 133.1 | 139.0 |
| 35° | 125.6 | 128.6 | 130.4 | 126.3 | 117.4 | 112.0 | 110.0 | 106.6 | 104.9 | 104.9 | 111.7 |
| 37.5° | 114.4 | 121.2 | 123.9 | 119.9 | 110.3 | 102.8 | 99.2 | 98.7 | 98.9 | 100.1 | 106.6 |
| 40° | 110.5 | 115.6 | 117.9 | 114.0 | 104.3 | 97.5 | 95.4 | 94.7 | 95.4 | 97.1 | 103.7 |
| 42.5° | 108.1 | 111.7 | 111.5 | 106.6 | 98.7 | 93.9 | 92.7 | 92.1 | 92.7 | 94.5 | 101.6 |
| 45° | 106.1 | 108.3 | 106.1 | 100.4 | 93.0 | 90.5 | 90.9 | 90.5 | 91.2 | 93.0 | 99.9 |
| 47.5° | 104.3 | 105.1 | 102.1 | 96.5 | 88.8 | 88.3 | 89.4 | 90.3 | 90.9 | 92.5 | 99.5 |
| 50° | 101.6 | 101.6 | 98.9 | 93.0 | 85.2 | 85.5 | 87.1 | 89.1 | 89.4 | 91.2 | 96.8 |
| 52.5° | 98.4 | 98.0 | 96.2 | 90.5 | 82.3 | 83.1 | 83.1 | 85.5 | 86.1 | 88.3 | 94.2 |
| 55° | 95.6 | 95.0 | 94.2 | 88.8 | 79.6 | 81.1 | 80.2 | 81.1 | 82.6 | 84.6 | 91.2 |
| 57.5° | 93.3 | 92.1 | 92.1 | 87.3 | 77.6 | 78.1 | 76.1 | 77.2 | 79.0 | 80.9 | 87.6 |
| 60° | 90.9 | 89.7 | 90.3 | 85.2 | 74.3 | 73.6 | 72.7 | 75.2 | 75.7 | 77.8 | 84.6 |
| 62.5° | 88.3 | 87.3 | 87.6 | 82.9 | 71.9 | 70.4 | 70.4 | 72.4 | 72.7 | 75.7 | 82.3 |
| 65° | 86.1 | 85.0 | 84.6 | 80.6 | 69.2 | 67.4 | 68.3 | 69.2 | 69.8 | 72.7 | 79.0 |
| 67.5° | 84.0 | 81.7 | 81.7 | 78.4 | 66.2 | 64.5 | 66.2 | 66.0 | 66.8 | 69.5 | 74.6 |
| 70° | 81.4 | 78.1 | 78.4 | 76.9 | 63.3 | 61.1 | 62.8 | 62.4 | 63.0 | 64.8 | 69.8 |
| 72.5° | 77.2 | 74.6 | 75.2 | 74.6 | 60.3 | 57.4 | 57.9 | 57.9 | 57.9 | 59.4 | 64.8 |
| 75° | 71.9 | 69.8 | 71.6 | 73.1 | 56.7 | 52.6 | 53.2 | 53.2 | 52.3 | 53.2 | 59.6 |
| 77.5° | 65.3 | 64.1 | 70.2 | 68.1 | 52.6 | 47.5 | 47.5 | 47.0 | 45.2 | 46.3 | 53.4 |
| 80° | 58.2 | 57.4 | 64.8 | 57.1 | 47.8 | 41.3 | 40.7 | 39.3 | 37.4 | 38.4 | 45.5 |
| 82.5° | 50.8 | 49.9 | 54.4 | 43.7 | 41.3 | 34.2 | 32.7 | 30.0 | 28.2 | 29.1 | 35.6 |
| 85° | 41.6 | 41.6 | 41.8 | 33.0 | 31.4 | 26.1 | 24.4 | 20.8 | 18.7 | 19.3 | 25.5 |
| 87.5° | 29.7 | 30.6 | 28.2 | 22.6 | 18.7 | 14.5 | 13.3 | 11.3 | 9.5 | 11.0 | 13.3 |
| 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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| 42.5° | 108.1 | 117.4 | 130.7 | 245.1 | 519.3 | 1335.2 | 2806.7 | 3267.7 |
| 45° | 107.8 | 117.4 | 133.1 | 237.9 | 524.3 | 1365.3 | 2926.6 | 3401.0 |
| 47.5° | 108.1 | 121.2 | 128.6 | 229.3 | 524.3 | 1415.5 | 3067.5 | 3520.3 |
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| 52.5° | 106.3 | 126.8 | 114.6 | 198.5 | 491.0 | 1661.5 | 3508.0 | 3899.6 |
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| 57.5° | 103.4 | 108.3 | 104.6 | 146.2 | 428.4 | 1941.9 | 3955.4 | 4362.4 |
| 60° | 115.9 | 94.7 | 101.6 | 134.3 | 377.6 | 1973.7 | 3948.3 | 4443.1 |
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| 75° | 61.5 | 65.0 | 73.4 | 135.2 | 265.3 | 495.8 | 1379.5 | 1540.0 |
| 77.5° | 54.6 | 57.4 | 64.5 | 104.3 | 197.0 | 317.3 | 1035.6 | 1125.0 |
| 80° | 46.7 | 48.1 | 54.1 | 76.4 | 134.8 | 198.5 | 819.3 | 902.8 |
| 82.5° | 37.4 | 38.0 | 41.8 | 57.4 | 87.6 | 127.4 | 548.7 | 626.2 |
| 85° | 26.4 | 26.4 | 28.9 | 41.6 | 59.6 | 80.9 | 297.9 | 330.3 |
| 87.5° | 12.4 | 12.8 | 12.8 | 22.8 | 31.1 | 41.0 | 68.7 | 42.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)