

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: P269291

Luminaire Tested: **GLEON-AF-05-LED-E1-5WQ-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269291  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-05-LED-E1-5WQ-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21996 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 210  
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

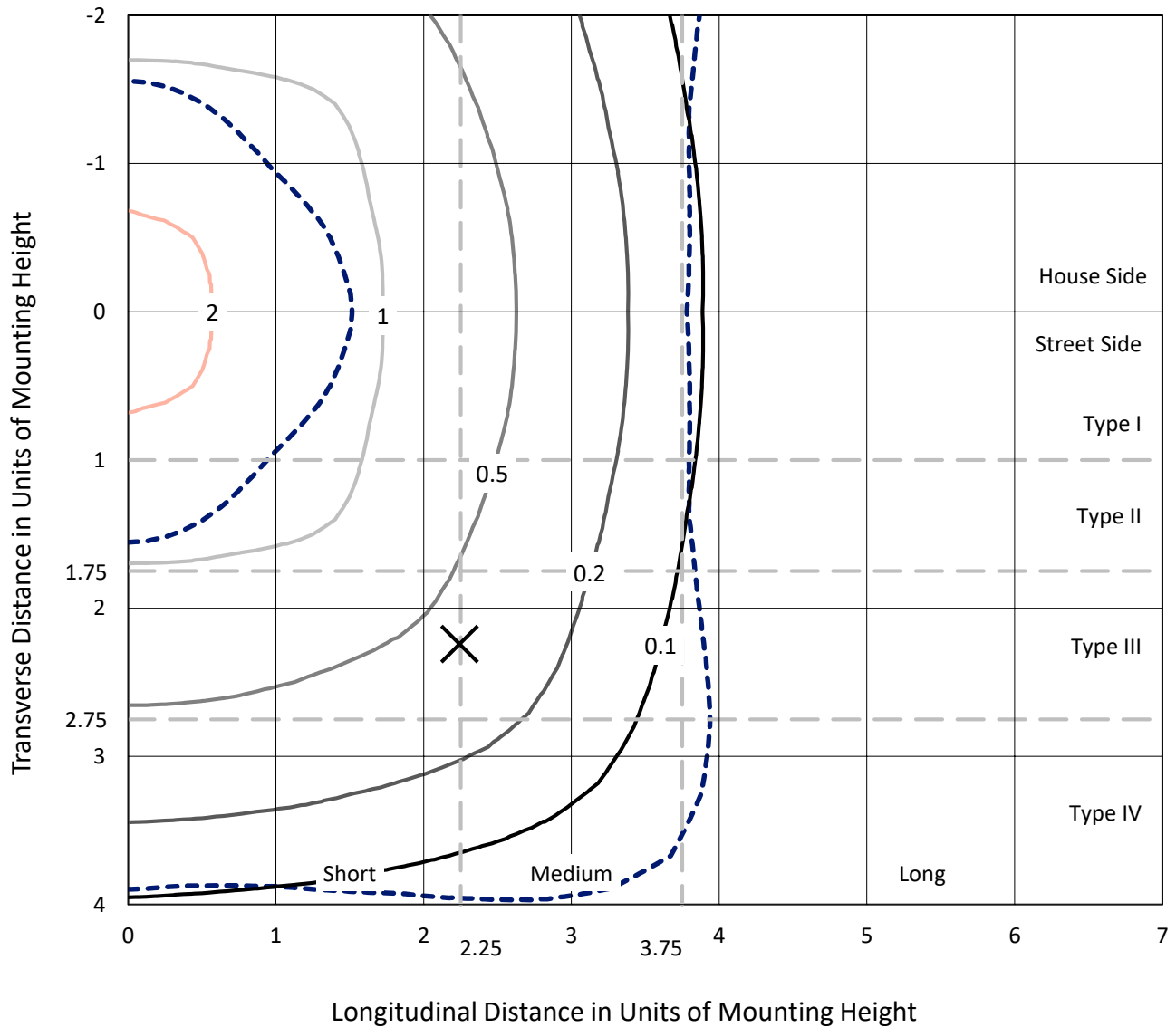


REPORT NUMBER: P269291

CATALOG NUMBER: GLEON-AF-05-LED-E1-5WQ-7027-800

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

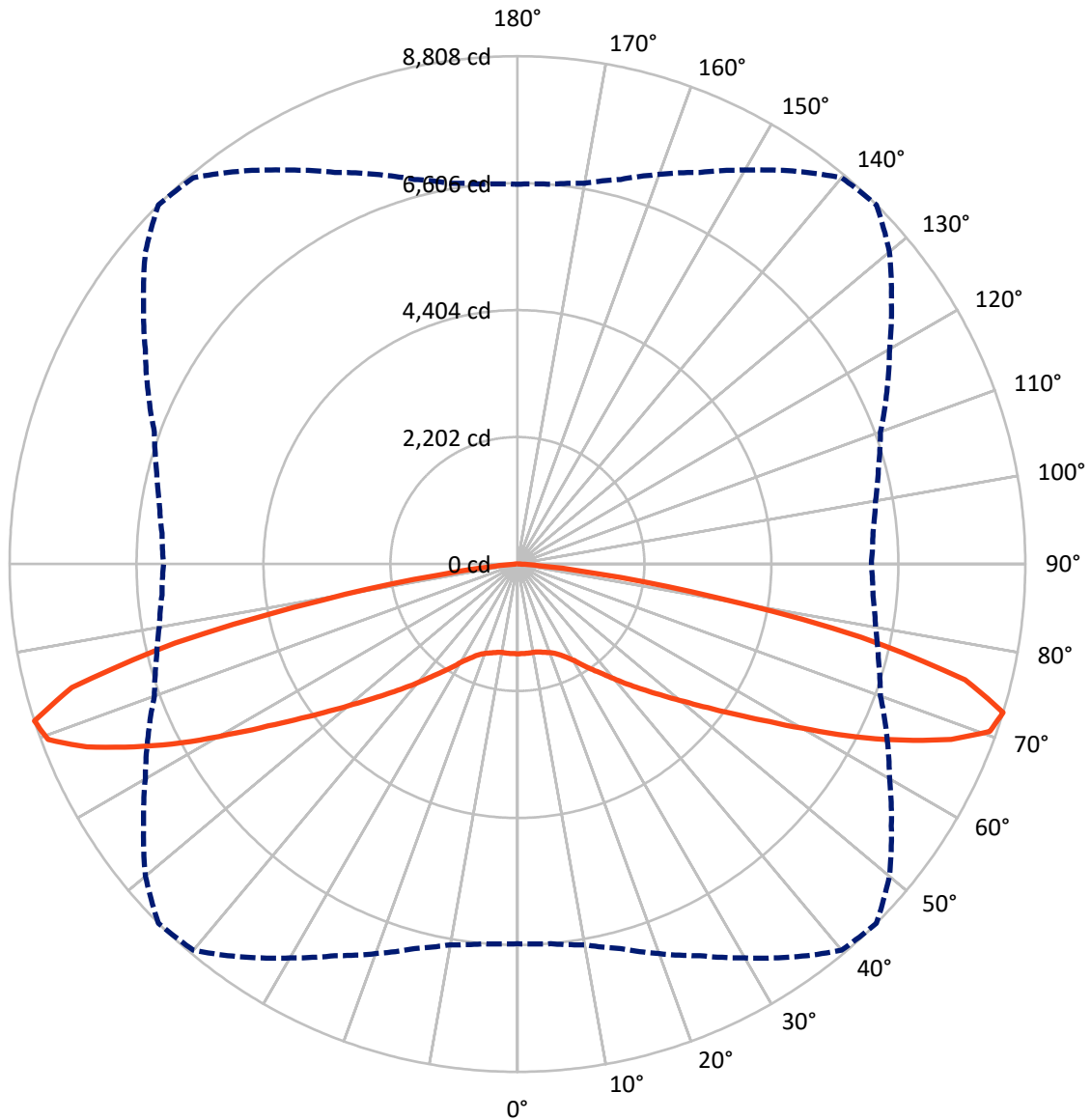


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P269291

CATALOG NUMBER: GLEON-AF-05-LED-E1-5WQ-7027-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P269291

CATALOG NUMBER: GLEON-AF-05-LED-E1-5WQ-7027-800

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10998.0  | 0.0    | 10998.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10998.0  | 0.0    | 10998.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 21996.0  | 0.0    | 21996.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 148.7   | 0.7       |
| 10°-20°   | 451.7   | 2.1       |
| 20°-30°   | 825.5   | 3.8       |
| 30°-40°   | 1423.3  | 6.5       |
| 40°-50°   | 2433.1  | 11.1      |
| 50°-60°   | 3943.8  | 17.9      |
| 60°-70°   | 6542.6  | 29.7      |
| 70°-80°   | 5762.5  | 26.2      |
| 80°-90°   | 464.6   | 2.1       |
| 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°    | 21996.0 | 100.0     |
| 0°-180°   | 21996.0 | 100.0     |



REPORT NUMBER: P269291

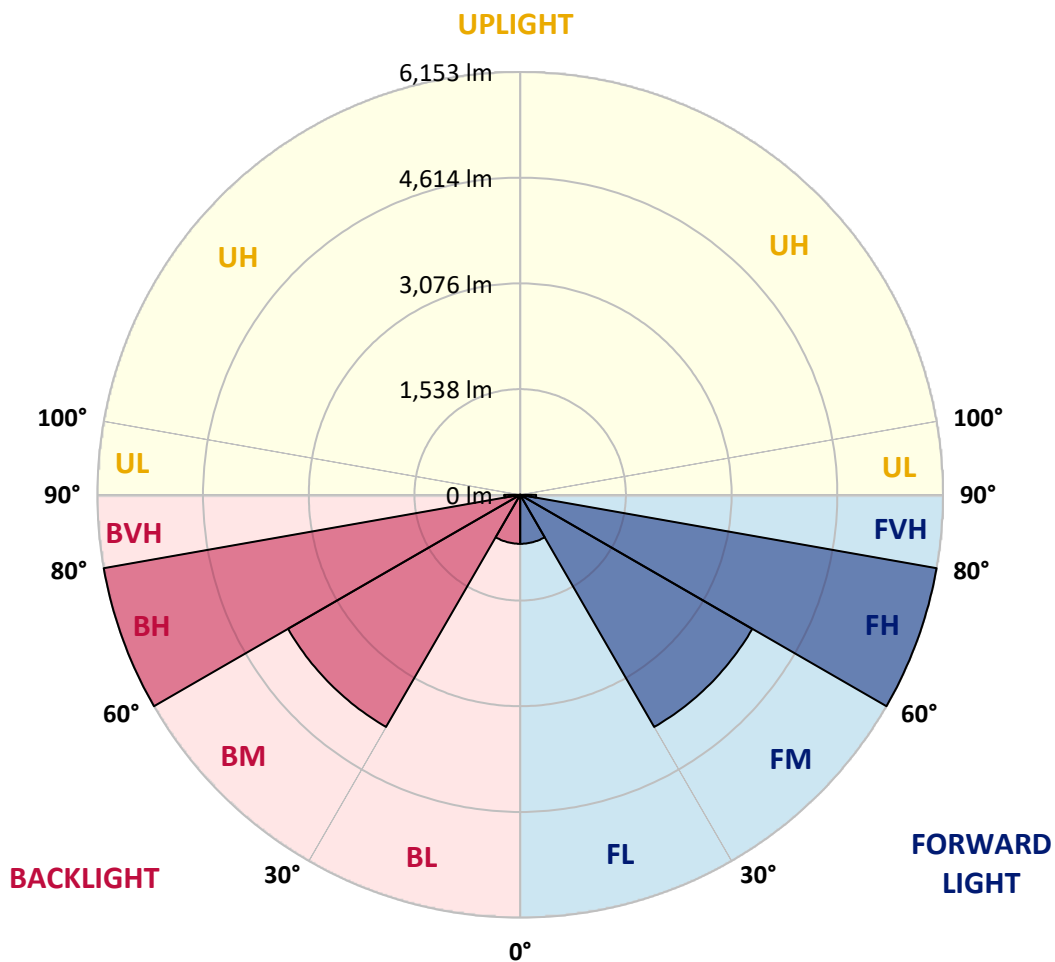
CATALOG NUMBER: GLEON-AF-05-LED-E1-5WQ-7027-800

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 713.0  | 3.2       |                         |      |         |
| FM   | (30°-60°)   | 3900.1 | 17.7      |                         |      |         |
| FH   | (60°-80°)   | 6152.6 | 28.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 232.3  | 1.1       |                         |      | G3/500  |
| BL   | (0°-30°)    | 713.0  | 3.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3900.1 | 17.7      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 6152.6 | 28.0      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 232.3  | 1.1       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short





REPORT NUMBER: P269291

CATALOG NUMBER: GLEON-AF-05-LED-E1-5WQ-7027-800

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1557.7 | 1557.7 | 1557.7 | 1557.7 | 1557.7 | 1557.7 | 1557.7 | 1557.7 | 1557.7 | 1557.7 | 1557.7 |
| 2.5°  | 1557.7 | 1558.6 | 1559.6 | 1558.6 | 1558.6 | 1557.7 | 1556.7 | 1557.7 | 1556.7 | 1554.6 | 1555.7 |
| 5°    | 1562.7 | 1564.7 | 1564.7 | 1562.7 | 1563.7 | 1562.7 | 1560.6 | 1561.8 | 1559.6 | 1556.7 | 1556.7 |
| 7.5°  | 1568.8 | 1569.8 | 1569.8 | 1567.7 | 1568.8 | 1566.7 | 1564.7 | 1563.7 | 1561.8 | 1557.7 | 1554.6 |
| 10°   | 1577.9 | 1578.9 | 1577.9 | 1575.7 | 1575.7 | 1572.8 | 1567.7 | 1565.7 | 1561.8 | 1555.7 | 1552.6 |
| 12.5° | 1587.9 | 1588.9 | 1587.9 | 1585.9 | 1584.9 | 1579.8 | 1575.7 | 1572.8 | 1569.8 | 1564.7 | 1559.6 |
| 15°   | 1602.0 | 1604.1 | 1602.0 | 1598.1 | 1595.0 | 1591.0 | 1588.9 | 1589.9 | 1591.0 | 1586.9 | 1581.8 |
| 17.5° | 1628.3 | 1629.3 | 1626.2 | 1617.2 | 1613.1 | 1609.1 | 1609.1 | 1611.1 | 1614.2 | 1612.2 | 1607.1 |
| 20°   | 1676.6 | 1673.7 | 1666.6 | 1655.5 | 1650.5 | 1643.4 | 1642.5 | 1643.4 | 1643.4 | 1642.5 | 1638.4 |
| 22.5° | 1737.2 | 1735.3 | 1726.2 | 1712.0 | 1705.0 | 1700.9 | 1694.8 | 1689.8 | 1688.9 | 1685.8 | 1681.7 |
| 25°   | 1809.8 | 1808.8 | 1797.8 | 1785.7 | 1780.6 | 1775.6 | 1770.5 | 1763.5 | 1757.4 | 1750.3 | 1746.3 |
| 27.5° | 1902.7 | 1898.7 | 1882.5 | 1876.5 | 1869.5 | 1866.4 | 1859.3 | 1851.2 | 1846.1 | 1837.2 | 1832.1 |
| 30°   | 2004.6 | 2004.6 | 1991.5 | 1989.4 | 1989.4 | 1982.4 | 1974.4 | 1960.2 | 1951.1 | 1942.0 | 1939.0 |
| 32.5° | 2106.4 | 2107.5 | 2094.4 | 2098.4 | 2101.4 | 2106.4 | 2108.5 | 2103.4 | 2097.5 | 2096.4 | 2090.4 |
| 35°   | 2253.8 | 2249.7 | 2236.6 | 2239.7 | 2238.7 | 2237.6 | 2237.6 | 2248.6 | 2250.8 | 2252.8 | 2240.6 |
| 37.5° | 2436.4 | 2436.4 | 2423.3 | 2423.3 | 2417.2 | 2411.1 | 2403.1 | 2410.2 | 2421.2 | 2424.3 | 2416.3 |
| 40°   | 2645.1 | 2652.2 | 2636.2 | 2635.1 | 2637.2 | 2617.9 | 2608.9 | 2619.9 | 2627.1 | 2639.1 | 2630.1 |
| 42.5° | 2891.4 | 2886.3 | 2870.2 | 2868.2 | 2857.1 | 2851.0 | 2843.0 | 2851.9 | 2863.1 | 2871.2 | 2874.1 |
| 45°   | 3127.4 | 3123.3 | 3105.3 | 3105.3 | 3094.1 | 3089.1 | 3093.1 | 3108.2 | 3113.3 | 3124.3 | 3135.5 |
| 47.5° | 3360.5 | 3355.3 | 3343.3 | 3348.3 | 3349.4 | 3358.5 | 3371.6 | 3385.7 | 3399.8 | 3414.9 | 3419.9 |
| 50°   | 3598.5 | 3599.6 | 3586.5 | 3598.5 | 3613.7 | 3638.9 | 3674.2 | 3697.5 | 3726.7 | 3745.8 | 3752.0 |
| 52.5° | 3815.5 | 3819.6 | 3833.5 | 3861.9 | 3892.1 | 3941.6 | 4002.0 | 4058.6 | 4107.1 | 4139.3 | 4137.2 |
| 55°   | 4075.7 | 4081.8 | 4116.2 | 4164.5 | 4213.9 | 4288.6 | 4378.3 | 4478.3 | 4559.0 | 4605.4 | 4576.1 |
| 57.5° | 4408.6 | 4421.7 | 4460.2 | 4525.8 | 4599.3 | 4696.2 | 4819.2 | 4969.6 | 5094.6 | 5157.2 | 5109.7 |
| 60°   | 4865.7 | 4873.8 | 4920.1 | 4992.8 | 5081.5 | 5201.6 | 5366.0 | 5567.9 | 5744.3 | 5827.0 | 5772.6 |
| 62.5° | 5468.0 | 5483.1 | 5520.4 | 5594.0 | 5684.8 | 5821.0 | 6021.8 | 6274.0 | 6493.9 | 6608.9 | 6485.9 |
| 65°   | 6187.3 | 6235.7 | 6266.9 | 6341.7 | 6426.4 | 6570.7 | 6780.4 | 7050.8 | 7287.0 | 7362.6 | 7220.2 |
| 67.5° | 6899.5 | 6941.8 | 6996.3 | 7082.1 | 7167.8 | 7330.3 | 7525.0 | 7787.2 | 8046.6 | 8115.2 | 7894.2 |
| 70°   | 7211.2 | 7235.5 | 7320.2 | 7437.2 | 7601.6 | 7793.3 | 8018.4 | 8312.8 | 8633.7 | 8690.3 | 8409.8 |
| 72.5° | 6586.7 | 6610.9 | 6705.8 | 6904.6 | 7191.0 | 7495.6 | 7888.1 | 8321.0 | 8744.7 | 8808.2 | 8421.8 |
| 75°   | 4981.7 | 4942.4 | 5082.6 | 5345.9 | 5732.3 | 6157.1 | 6705.8 | 7326.2 | 7938.6 | 8018.4 | 7557.4 |
| 77.5° | 2574.6 | 2569.5 | 2675.4 | 3002.3 | 3463.3 | 3946.7 | 4551.0 | 5252.0 | 5851.3 | 6093.5 | 5718.2 |
| 80°   | 725.3  | 733.5  | 784.0  | 946.4  | 1215.6 | 1564.7 | 2036.8 | 2693.6 | 3184.0 | 3434.1 | 3224.2 |
| 82.5° | 284.6  | 306.7  | 325.8  | 356.1  | 391.4  | 442.9  | 591.2  | 879.7  | 1180.4 | 1410.3 | 1155.1 |
| 85°   | 101.9  | 109.0  | 154.4  | 182.5  | 185.6  | 195.7  | 223.0  | 260.2  | 313.8  | 374.2  | 307.7  |
| 87.5° | 38.4   | 42.4   | 49.4   | 81.7   | 80.7   | 73.7   | 89.8   | 93.9   | 70.6   | 64.6   | 79.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P269291

CATALOG NUMBER: GLEON-AF-05-LED-E1-5WQ-7027-800

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1557.7 | 1557.7 | 1557.7 | 1557.7 | 1557.7 | 1557.7 | 1557.7 | 1557.7 |
| 2.5°  | 1553.6 | 1554.6 | 1554.6 | 1555.7 | 1556.7 | 1556.7 | 1558.6 | 1558.6 |
| 5°    | 1554.6 | 1554.6 | 1552.6 | 1553.6 | 1552.6 | 1552.6 | 1553.6 | 1553.6 |
| 7.5°  | 1552.6 | 1551.6 | 1549.5 | 1548.6 | 1546.5 | 1546.5 | 1546.5 | 1546.5 |
| 10°   | 1549.5 | 1548.6 | 1546.5 | 1545.5 | 1544.5 | 1544.5 | 1544.5 | 1544.5 |
| 12.5° | 1557.7 | 1554.6 | 1552.6 | 1551.6 | 1551.6 | 1551.6 | 1551.6 | 1551.6 |
| 15°   | 1578.9 | 1571.8 | 1566.7 | 1566.7 | 1567.7 | 1569.8 | 1569.8 | 1571.8 |
| 17.5° | 1605.1 | 1596.9 | 1591.9 | 1587.9 | 1589.9 | 1593.0 | 1595.0 | 1596.9 |
| 20°   | 1636.4 | 1632.3 | 1625.3 | 1621.3 | 1621.3 | 1625.3 | 1627.3 | 1628.3 |
| 22.5° | 1679.7 | 1676.6 | 1673.7 | 1668.6 | 1668.6 | 1670.7 | 1674.7 | 1674.7 |
| 25°   | 1744.2 | 1742.3 | 1740.2 | 1736.2 | 1735.3 | 1735.3 | 1737.2 | 1739.3 |
| 27.5° | 1824.9 | 1826.1 | 1824.0 | 1823.0 | 1820.0 | 1819.0 | 1822.0 | 1821.0 |
| 30°   | 1933.0 | 1938.1 | 1943.0 | 1939.0 | 1934.0 | 1930.9 | 1927.9 | 1923.9 |
| 32.5° | 2079.2 | 2073.2 | 2069.2 | 2062.1 | 2052.9 | 2044.9 | 2038.9 | 2031.8 |
| 35°   | 2217.5 | 2207.3 | 2203.4 | 2209.4 | 2208.4 | 2203.4 | 2196.3 | 2190.2 |
| 37.5° | 2386.9 | 2384.9 | 2386.9 | 2398.0 | 2396.0 | 2401.1 | 2386.9 | 2385.9 |
| 40°   | 2600.9 | 2602.7 | 2616.9 | 2630.1 | 2637.2 | 2644.3 | 2636.2 | 2628.0 |
| 42.5° | 2849.0 | 2847.9 | 2852.9 | 2871.2 | 2883.3 | 2891.4 | 2874.1 | 2872.2 |
| 45°   | 3111.3 | 3104.3 | 3108.2 | 3123.3 | 3135.5 | 3144.5 | 3125.5 | 3125.5 |
| 47.5° | 3399.8 | 3387.7 | 3374.7 | 3391.7 | 3398.7 | 3404.8 | 3389.8 | 3384.6 |
| 50°   | 3721.6 | 3696.4 | 3668.1 | 3675.2 | 3675.2 | 3673.2 | 3654.0 | 3653.0 |
| 52.5° | 4090.9 | 4044.4 | 3993.0 | 3973.8 | 3962.8 | 3950.7 | 3917.4 | 3901.2 |
| 55°   | 4515.6 | 4446.0 | 4365.3 | 4315.8 | 4289.5 | 4256.3 | 4200.8 | 4185.7 |
| 57.5° | 5012.0 | 4902.9 | 4763.8 | 4703.3 | 4644.7 | 4590.2 | 4528.7 | 4511.6 |
| 60°   | 5600.2 | 5439.6 | 5255.1 | 5143.1 | 5079.6 | 5027.1 | 4963.6 | 4960.5 |
| 62.5° | 6255.8 | 6002.7 | 5793.8 | 5692.9 | 5646.4 | 5600.2 | 5539.6 | 5547.7 |
| 65°   | 6922.7 | 6658.3 | 6462.6 | 6380.9 | 6337.5 | 6299.3 | 6238.6 | 6247.8 |
| 67.5° | 7580.4 | 7337.4 | 7122.4 | 7038.7 | 6990.3 | 6941.8 | 6887.3 | 6896.5 |
| 70°   | 8052.5 | 7750.9 | 7508.8 | 7323.3 | 7207.2 | 7076.0 | 6991.2 | 6970.0 |
| 72.5° | 7917.4 | 7452.3 | 7068.0 | 6699.7 | 6483.8 | 6308.3 | 6189.2 | 6137.8 |
| 75°   | 6852.1 | 6216.5 | 5722.2 | 5270.1 | 5016.0 | 4809.2 | 4658.9 | 4565.0 |
| 77.5° | 5088.5 | 4374.3 | 3790.2 | 3269.7 | 2858.0 | 2581.5 | 2386.9 | 2260.9 |
| 80°   | 2785.5 | 2118.6 | 1548.6 | 1088.6 | 800.0  | 664.8  | 587.1  | 549.9  |
| 82.5° | 867.7  | 560.0  | 412.6  | 356.1  | 330.8  | 316.8  | 293.6  | 256.2  |
| 85°   | 276.4  | 242.2  | 224.9  | 214.9  | 204.9  | 178.6  | 123.1  | 112.0  |
| 87.5° | 107.0  | 110.0  | 109.0  | 102.9  | 104.9  | 75.6   | 60.5   | 53.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)