

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: P193773

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193773  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
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-SL4-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15199 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3

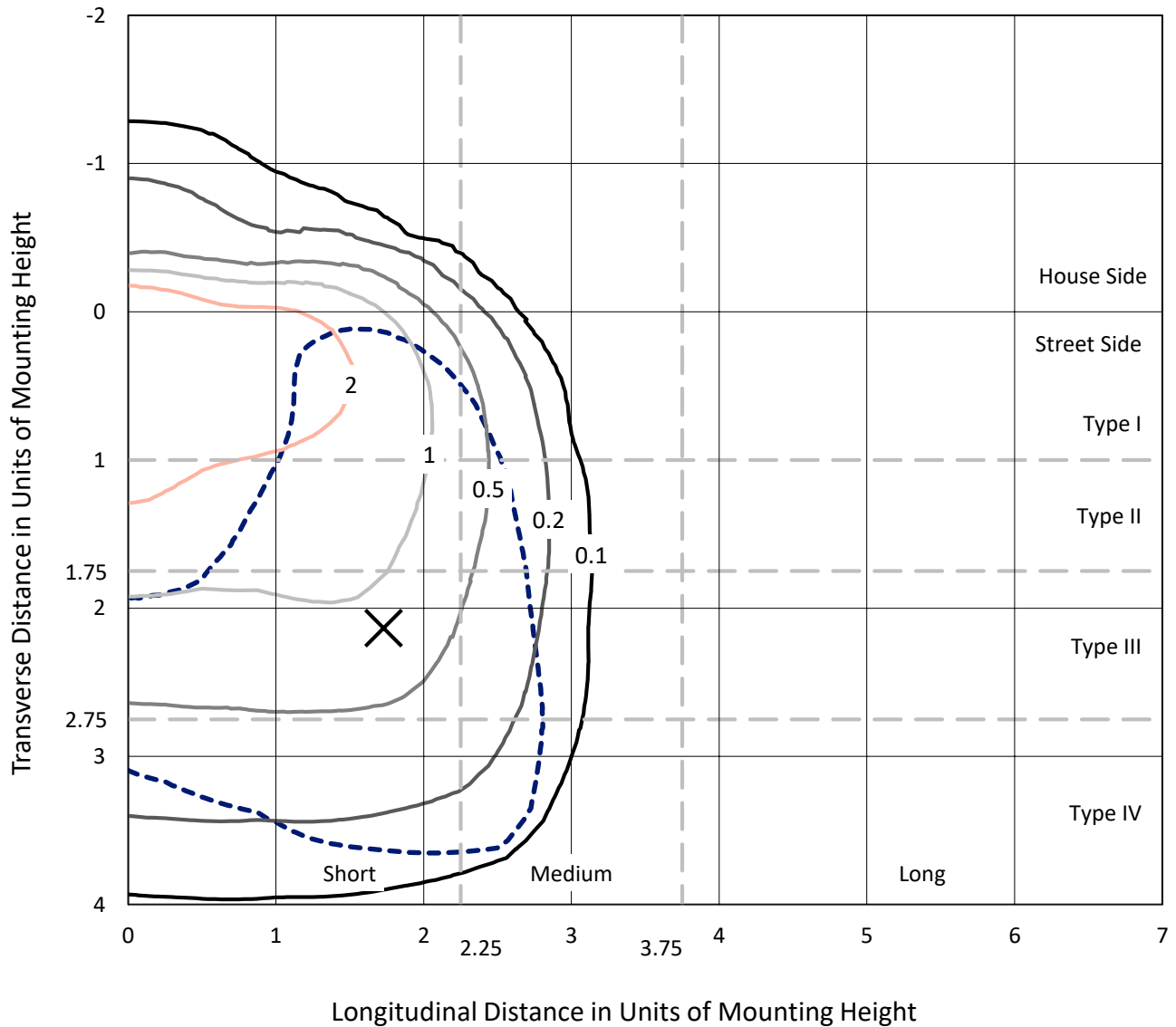
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P193773  
 CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-8030-600

### Iso-Footcandle Lines of Horizontal Illumination

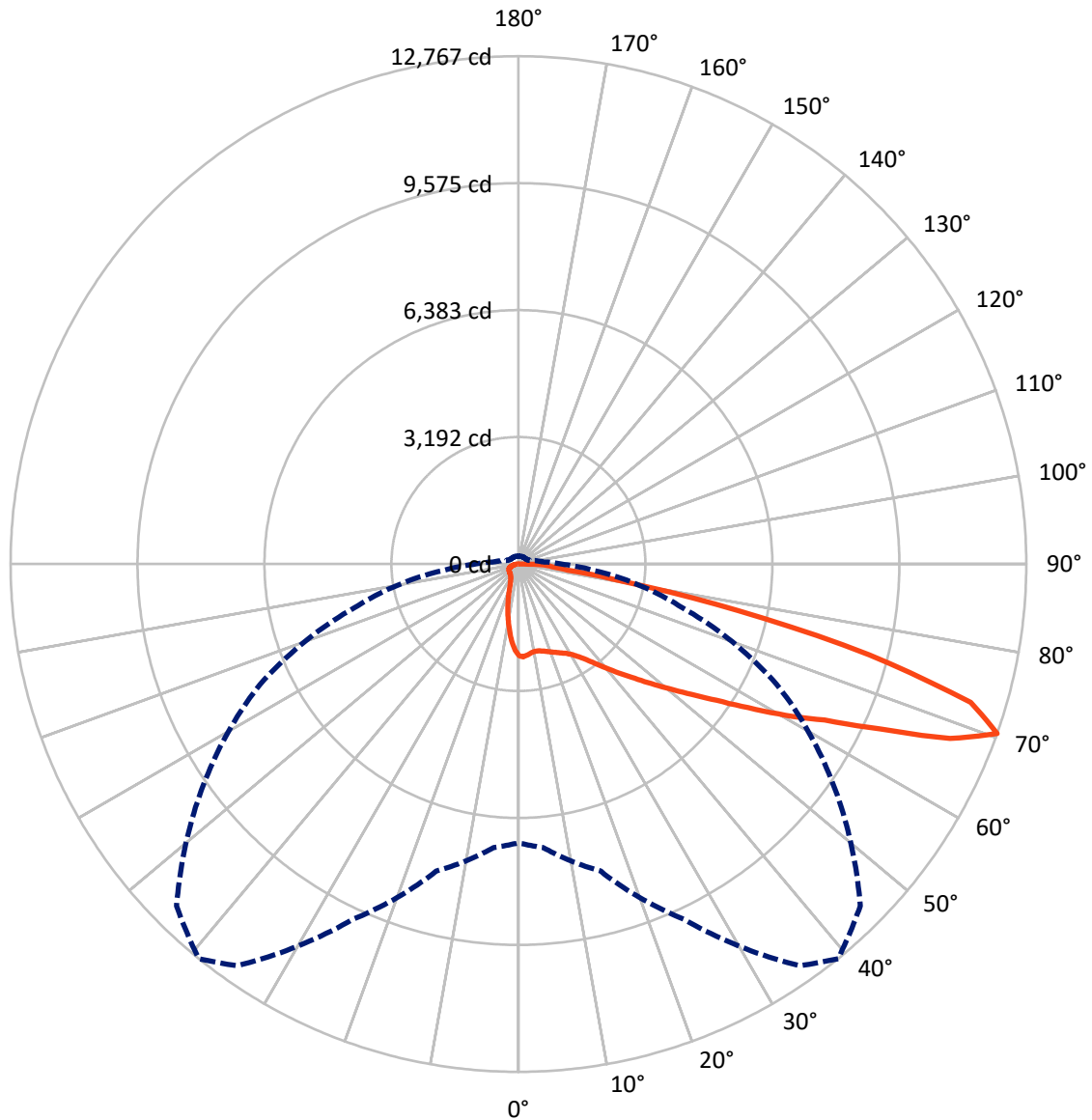
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P193773  
CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-8030-600

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P193773

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-8030-600

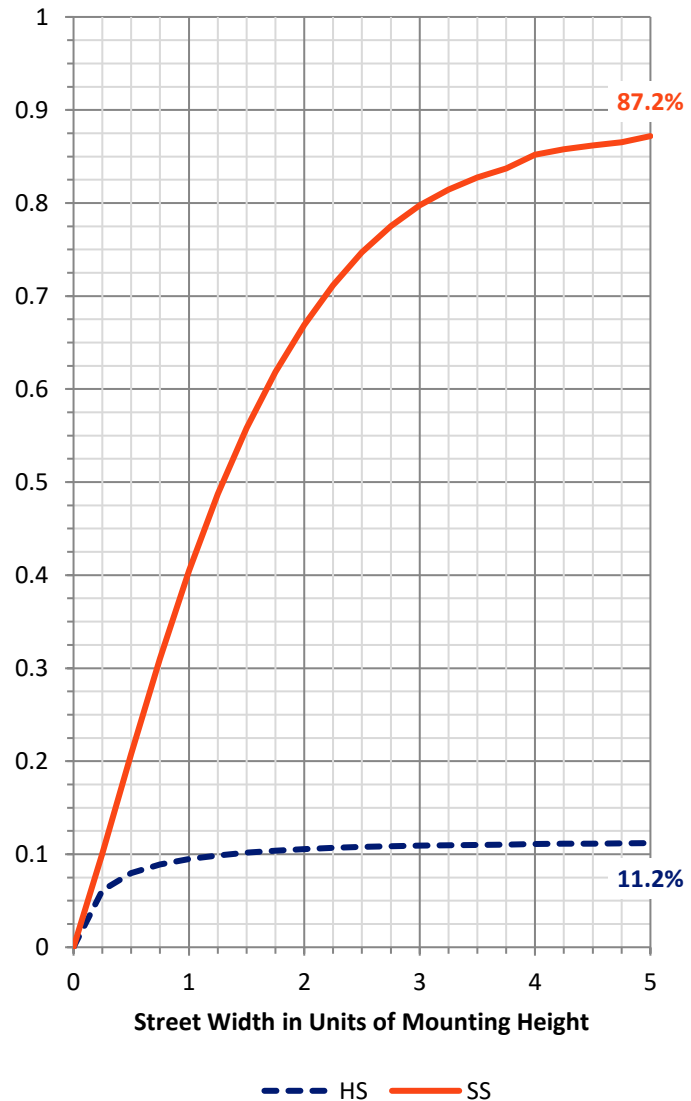
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1728.6   | 0.0    | 1728.6  |
|                    | % Fixture | 11.4     | 0.0    | 11.4    |
| <b>Street Side</b> | Lumens    | 13470.4  | 0.0    | 13470.4 |
|                    | % Fixture | 88.6     | 0.0    | 88.6    |
| <b>Total</b>       | Lumens    | 15199.0  | 0.0    | 15199.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 198.0   | 1.3       |
| 10°-20°   | 495.0   | 3.3       |
| 20°-30°   | 770.7   | 5.1       |
| 30°-40°   | 1200.6  | 7.9       |
| 40°-50°   | 2015.6  | 13.3      |
| 50°-60°   | 3202.0  | 21.1      |
| 60°-70°   | 4271.1  | 28.1      |
| 70°-80°   | 2579.2  | 17.0      |
| 80°-90°   | 466.8   | 3.1       |
| 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°    | 15199.0 | 100.0     |
| 0°-180°   | 15199.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P193773

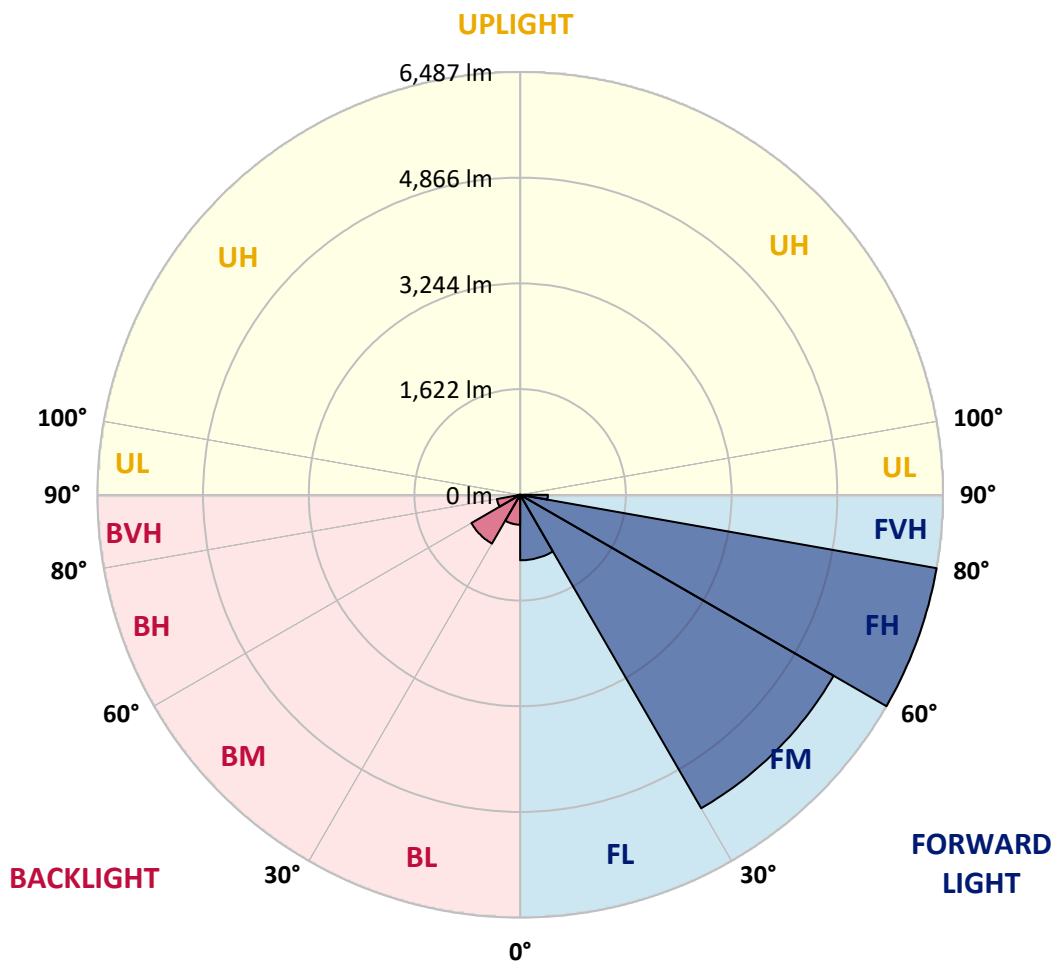
CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-8030-600

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1005.1 | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 5553.1 | 36.5      |                         |      |         |
| FH   | (60°-80°)   | 6487.4 | 42.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 424.7  | 2.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 458.6  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 865.1  | 5.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 362.9  | 2.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 42.1   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short





REPORT NUMBER: P193773

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-8030-600

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 39°     | 45°     | 55°     | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 2307.4 | 2307.4 | 2307.4 | 2307.4 | 2307.4  | 2307.4  | 2307.4  | 2307.4  | 2307.4 | 2307.4 | 2307.4 |
| 2.5°  | 2352.3 | 2351.5 | 2345.3 | 2340.7 | 2336.8  | 2335.3  | 2338.4  | 2326.8  | 2316.7 | 2304.4 | 2291.2 |
| 5°    | 2334.5 | 2333.7 | 2323.7 | 2314.4 | 2305.1  | 2302.0  | 2301.3  | 2280.4  | 2268.0 | 2249.5 | 2224.8 |
| 7.5°  | 2315.2 | 2311.3 | 2298.2 | 2282.7 | 2266.5  | 2258.8  | 2251.0  | 2224.0  | 2210.1 | 2191.5 | 2162.9 |
| 10°   | 2295.1 | 2290.4 | 2278.1 | 2262.6 | 2247.2  | 2235.6  | 2222.4  | 2196.2  | 2181.5 | 2167.6 | 2134.3 |
| 12.5° | 2274.2 | 2270.4 | 2267.3 | 2260.3 | 2249.5  | 2239.4  | 2229.4  | 2207.0  | 2191.5 | 2175.3 | 2136.7 |
| 15°   | 2271.1 | 2269.6 | 2276.5 | 2281.2 | 2275.0  | 2268.8  | 2258.0  | 2238.7  | 2222.4 | 2206.2 | 2156.0 |
| 17.5° | 2295.9 | 2295.1 | 2312.9 | 2325.2 | 2322.1  | 2311.3  | 2296.6  | 2275.0  | 2261.9 | 2247.9 | 2185.3 |
| 20°   | 2349.9 | 2353.8 | 2375.4 | 2391.7 | 2376.2  | 2360.8  | 2336.8  | 2306.7  | 2299.7 | 2293.5 | 2215.5 |
| 22.5° | 2451.9 | 2455.8 | 2471.3 | 2477.4 | 2437.3  | 2414.9  | 2381.6  | 2343.0  | 2338.4 | 2343.0 | 2251.8 |
| 25°   | 2611.1 | 2607.3 | 2605.0 | 2581.8 | 2508.4  | 2473.6  | 2431.1  | 2390.9  | 2393.2 | 2414.1 | 2302.8 |
| 27.5° | 2822.1 | 2801.2 | 2768.8 | 2699.2 | 2582.5  | 2543.9  | 2492.1  | 2455.0  | 2469.7 | 2509.9 | 2379.3 |
| 30°   | 3040.8 | 3017.6 | 2942.6 | 2829.1 | 2679.9  | 2637.4  | 2579.5  | 2537.7  | 2576.4 | 2639.7 | 2481.3 |
| 32.5° | 3243.2 | 3240.2 | 3130.4 | 2984.4 | 2814.4  | 2777.3  | 2719.3  | 2672.2  | 2734.8 | 2831.4 | 2634.3 |
| 35°   | 3464.3 | 3471.2 | 3339.8 | 3164.4 | 2996.0  | 2957.3  | 2915.6  | 2880.1  | 2963.5 | 3096.4 | 2856.1 |
| 37.5° | 3700.7 | 3714.6 | 3559.3 | 3361.5 | 3203.1  | 3186.8  | 3162.1  | 3146.7  | 3275.7 | 3459.6 | 3166.0 |
| 40°   | 4016.8 | 4002.9 | 3787.3 | 3584.0 | 3457.3  | 3456.5  | 3448.8  | 3467.3  | 3682.2 | 3934.1 | 3563.9 |
| 42.5° | 4355.2 | 4314.3 | 4029.1 | 3822.8 | 3736.3  | 3762.5  | 3778.0  | 3853.7  | 4171.3 | 4510.6 | 4049.2 |
| 45°   | 4720.0 | 4628.0 | 4280.3 | 4075.5 | 4046.1  | 4101.8  | 4154.3  | 4318.9  | 4747.0 | 5166.6 | 4580.9 |
| 47.5° | 5011.3 | 4922.4 | 4539.9 | 4340.6 | 4404.7  | 4488.9  | 4590.2  | 4850.6  | 5391.5 | 5844.3 | 5105.6 |
| 50°   | 5240.8 | 5182.9 | 4801.9 | 4649.7 | 4799.6  | 4929.4  | 5094.8  | 5452.6  | 6062.3 | 6504.3 | 5591.6 |
| 52.5° | 5463.4 | 5420.1 | 5066.2 | 4966.5 | 5263.2  | 5442.5  | 5667.4  | 6098.6  | 6750.0 | 7153.4 | 6000.4 |
| 55°   | 5664.3 | 5633.4 | 5350.5 | 5361.4 | 5808.8  | 6042.2  | 6325.0  | 6834.2  | 7499.6 | 7732.2 | 6346.6 |
| 57.5° | 5890.7 | 5851.3 | 5675.1 | 5856.7 | 6509.7  | 6812.6  | 7180.4  | 7661.1  | 8202.8 | 8246.8 | 6610.1 |
| 60°   | 6118.7 | 6084.7 | 6035.2 | 6428.5 | 7399.9  | 7718.3  | 8066.8  | 8462.4  | 8916.0 | 8646.3 | 6594.7 |
| 62.5° | 6316.5 | 6320.4 | 6407.7 | 7029.0 | 8271.6  | 8640.2  | 9065.2  | 9456.2  | 9561.3 | 8715.9 | 6107.1 |
| 65°   | 6651.9 | 6712.9 | 6973.3 | 7879.0 | 9498.7  | 9991.7  | 10513.3 | 10450.7 | 9739.8 | 8066.0 | 5061.5 |
| 67.5° | 7050.6 | 7158.0 | 7685.8 | 9011.9 | 11049.6 | 11704.1 | 11905.8 | 10675.6 | 9025.0 | 6556.8 | 3608.0 |
| 70°   | 7010.4 | 7158.0 | 7993.4 | 9856.5 | 12327.7 | 12766.7 | 12154.6 | 9661.7  | 7166.5 | 4283.4 | 1916.4 |
| 72.5° | 6225.3 | 6436.3 | 7366.7 | 9469.3 | 11925.1 | 11886.5 | 10552.0 | 7202.8  | 4257.9 | 1720.2 | 748.8  |
| 75°   | 4744.7 | 4958.0 | 5758.6 | 7481.0 | 9425.3  | 9100.7  | 7487.2  | 3978.9  | 1615.8 | 683.1  | 472.2  |
| 77.5° | 2729.4 | 2894.7 | 3512.9 | 4587.8 | 5979.6  | 5646.5  | 4167.5  | 1769.6  | 786.7  | 476.0  | 368.6  |
| 80°   | 1523.9 | 1615.8 | 1991.4 | 2327.5 | 2930.3  | 2686.1  | 1864.7  | 1099.6  | 587.3  | 345.4  | 284.4  |
| 82.5° | 1204.7 | 1286.6 | 1610.4 | 1468.2 | 1338.4  | 1234.9  | 1071.0  | 979.1   | 469.1  | 217.9  | 170.0  |
| 85°   | 1052.5 | 1130.5 | 1363.1 | 1156.0 | 914.2   | 838.4   | 870.1   | 963.6   | 364.7  | 131.4  | 145.3  |
| 87.5° | 975.2  | 1079.5 | 1214.8 | 891.0  | 711.7   | 630.6   | 802.9   | 1056.4  | 117.5  | 81.9   | 58.7   |
| 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: P193773

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-8030-600

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2307.4 | 2307.4 | 2307.4 | 2307.4 | 2307.4 | 2307.4 | 2307.4 | 2307.4 | 2307.4 | 2307.4 | 2307.4 |
| 2.5°  | 2279.6 | 2267.3 | 2247.2 | 2229.4 | 2201.6 | 2186.9 | 2170.7 | 2159.1 | 2149.8 | 2142.1 | 2154.4 |
| 5°    | 2209.3 | 2186.1 | 2143.6 | 2098.0 | 2043.9 | 2001.4 | 1965.9 | 1932.7 | 1909.5 | 1894.0 | 1904.8 |
| 7.5°  | 2142.8 | 2105.0 | 2038.5 | 1955.8 | 1863.1 | 1784.3 | 1719.4 | 1662.2 | 1622.8 | 1597.3 | 1607.3 |
| 10°   | 2105.0 | 2057.8 | 1955.1 | 1825.2 | 1688.5 | 1565.6 | 1463.6 | 1375.5 | 1314.5 | 1279.7 | 1285.1 |
| 12.5° | 2095.7 | 2034.7 | 1892.5 | 1714.0 | 1527.0 | 1356.2 | 1212.5 | 1090.4 | 1004.6 | 959.8  | 961.3  |
| 15°   | 2102.7 | 2024.6 | 1833.7 | 1607.3 | 1370.9 | 1155.3 | 976.0  | 827.6  | 727.9  | 676.9  | 676.2  |
| 17.5° | 2114.3 | 2016.9 | 1771.9 | 1492.2 | 1212.5 | 962.1  | 761.9  | 616.7  | 528.6  | 487.6  | 484.5  |
| 20°   | 2126.6 | 2004.5 | 1702.4 | 1367.8 | 1047.9 | 782.8  | 596.6  | 483.0  | 427.3  | 404.9  | 403.4  |
| 22.5° | 2144.4 | 1993.7 | 1630.5 | 1236.4 | 886.3  | 637.5  | 490.7  | 414.2  | 384.8  | 373.2  | 371.7  |
| 25°   | 2173.0 | 1988.3 | 1554.0 | 1099.6 | 741.1  | 533.2  | 427.3  | 380.2  | 363.2  | 355.5  | 354.7  |
| 27.5° | 2220.9 | 1996.0 | 1482.1 | 966.7  | 622.8  | 462.9  | 391.8  | 363.2  | 350.8  | 343.9  | 343.1  |
| 30°   | 2282.7 | 2020.0 | 1406.4 | 840.8  | 530.9  | 415.0  | 370.1  | 351.6  | 341.6  | 334.6  | 334.6  |
| 32.5° | 2385.5 | 2060.2 | 1326.8 | 731.8  | 465.2  | 381.7  | 353.9  | 341.6  | 333.1  | 327.6  | 326.9  |
| 35°   | 2537.0 | 2135.9 | 1252.6 | 641.4  | 418.1  | 357.8  | 340.0  | 330.7  | 324.6  | 321.5  | 321.5  |
| 37.5° | 2757.2 | 2255.7 | 1187.0 | 576.5  | 389.5  | 341.6  | 326.9  | 319.9  | 316.1  | 316.1  | 316.1  |
| 40°   | 3053.2 | 2421.0 | 1133.6 | 533.2  | 373.2  | 330.0  | 316.8  | 311.4  | 309.1  | 309.9  | 309.9  |
| 42.5° | 3418.7 | 2635.9 | 1098.1 | 503.1  | 365.5  | 323.0  | 309.9  | 305.2  | 302.9  | 302.1  | 302.9  |
| 45°   | 3835.2 | 2880.1 | 1094.2 | 480.7  | 357.8  | 318.4  | 305.2  | 300.6  | 296.0  | 292.9  | 292.9  |
| 47.5° | 4240.1 | 3128.1 | 1125.9 | 472.9  | 349.3  | 313.0  | 301.4  | 296.7  | 289.8  | 282.8  | 282.8  |
| 50°   | 4597.9 | 3339.1 | 1168.4 | 476.0  | 346.2  | 305.2  | 295.2  | 292.9  | 282.1  | 274.3  | 273.6  |
| 52.5° | 4882.3 | 3501.3 | 1203.2 | 485.3  | 349.3  | 299.8  | 287.5  | 288.2  | 276.6  | 268.1  | 267.4  |
| 55°   | 5110.2 | 3608.0 | 1193.9 | 494.6  | 356.2  | 296.7  | 280.5  | 282.1  | 272.8  | 264.3  | 264.3  |
| 57.5° | 5209.9 | 3568.6 | 1091.1 | 486.8  | 361.6  | 297.5  | 275.1  | 281.3  | 273.6  | 265.8  | 265.8  |
| 60°   | 4995.9 | 3218.5 | 898.7  | 452.8  | 354.7  | 295.2  | 272.8  | 284.4  | 283.6  | 275.9  | 275.1  |
| 62.5° | 4348.3 | 2591.8 | 697.0  | 402.6  | 330.7  | 283.6  | 266.6  | 283.6  | 292.1  | 289.8  | 289.0  |
| 65°   | 3351.4 | 1846.1 | 532.4  | 348.5  | 298.3  | 264.3  | 250.4  | 265.8  | 277.4  | 280.5  | 279.7  |
| 67.5° | 2175.3 | 1131.3 | 410.3  | 297.5  | 262.0  | 241.9  | 229.5  | 236.5  | 238.8  | 238.8  | 237.2  |
| 70°   | 1069.5 | 608.9  | 326.9  | 250.4  | 224.9  | 217.9  | 211.0  | 207.1  | 203.2  | 200.1  | 200.1  |
| 72.5° | 527.8  | 398.0  | 268.9  | 211.7  | 194.0  | 190.9  | 189.3  | 184.7  | 181.6  | 177.7  | 176.2  |
| 75°   | 390.2  | 323.8  | 228.7  | 178.5  | 166.9  | 163.8  | 166.9  | 163.1  | 162.3  | 159.2  | 157.6  |
| 77.5° | 320.7  | 275.9  | 197.1  | 153.0  | 143.0  | 137.6  | 142.2  | 143.0  | 143.7  | 139.1  | 137.6  |
| 80°   | 260.4  | 233.4  | 164.6  | 126.7  | 117.5  | 113.6  | 116.7  | 122.9  | 124.4  | 117.5  | 114.4  |
| 82.5° | 187.8  | 190.9  | 132.9  | 98.9   | 91.2   | 88.1   | 94.3   | 102.0  | 103.5  | 93.5   | 91.2   |
| 85°   | 157.6  | 159.2  | 102.0  | 70.3   | 62.6   | 58.0   | 68.0   | 75.7   | 81.1   | 71.1   | 68.8   |
| 87.5° | 65.7   | 93.5   | 58.7   | 39.4   | 34.8   | 30.1   | 36.3   | 40.2   | 48.7   | 44.8   | 44.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)