

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: P194634

Luminaire Tested: **GLEON-AF-06-LED-E1-SLL-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194634  
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: GLEON-AF-06-LED-E1-SLL-7060  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31286 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 333  
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

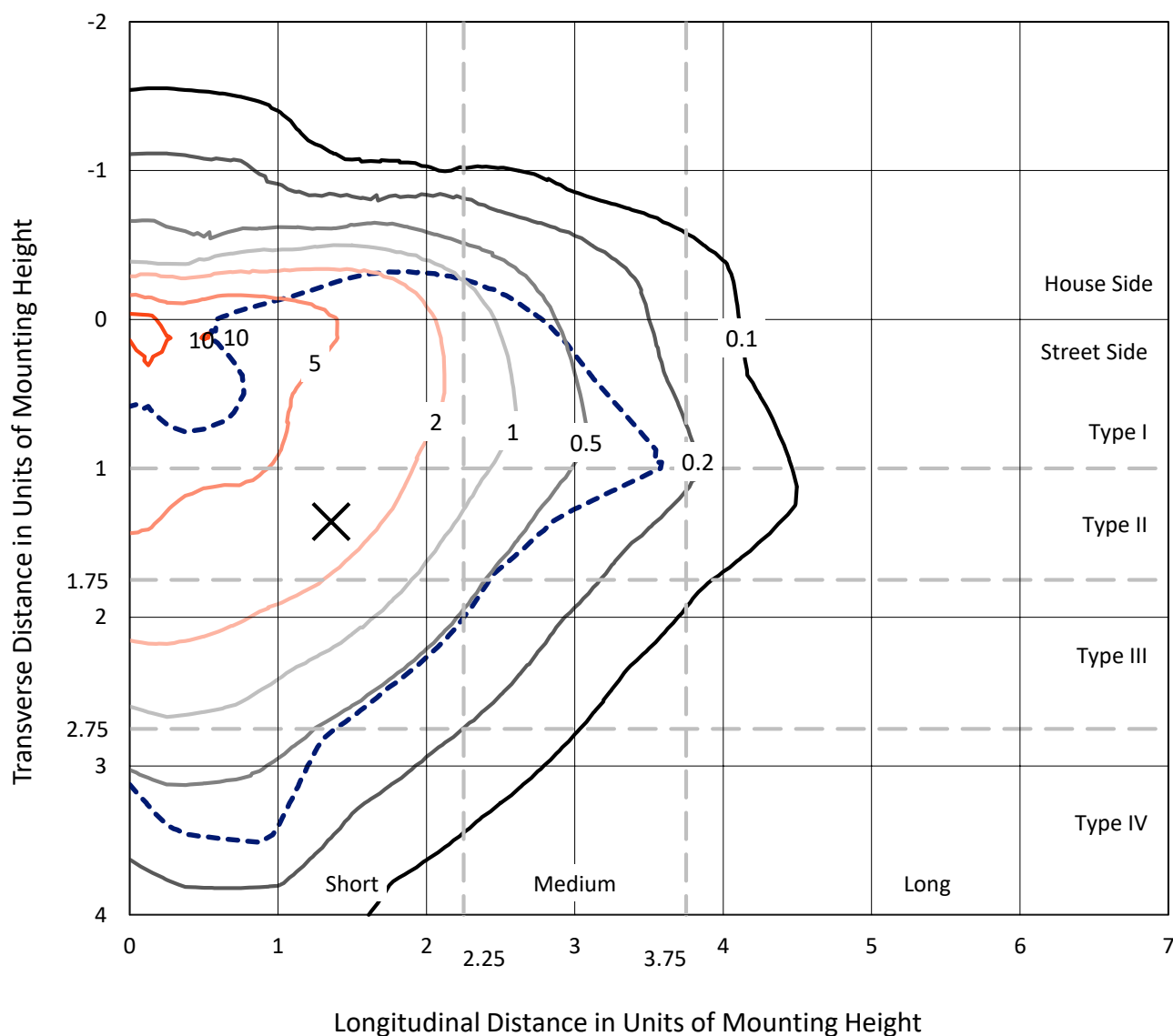


REPORT NUMBER: P194634

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7060

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

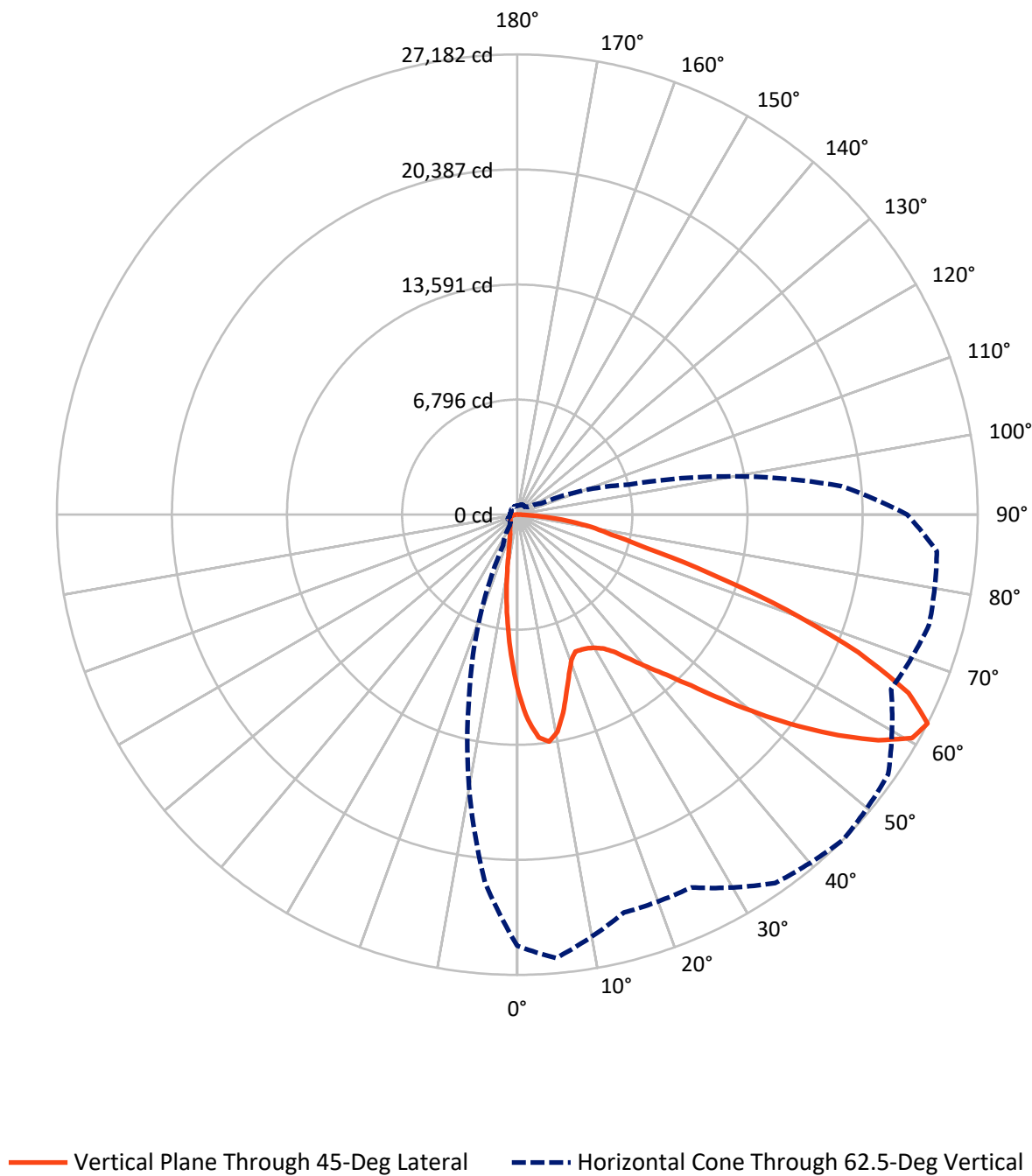


Based on 30 foot mounting height. Maximum calculated value = 13.8 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P194634

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7060

## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5177.4   | 0.0    | 5177.4  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 26108.6  | 0.0    | 26108.6 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 31286.0  | 0.0    | 31286.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 769.5   | 2.5       |
| 10°-20°   | 1411.0  | 4.5       |
| 20°-30°   | 2057.2  | 6.6       |
| 30°-40°   | 3168.4  | 10.1      |
| 40°-50°   | 4663.0  | 14.9      |
| 50°-60°   | 6839.7  | 21.9      |
| 60°-70°   | 7645.8  | 24.4      |
| 70°-80°   | 3743.3  | 12.0      |
| 80°-90°   | 988.3   | 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°    | 31286.0 | 100.0     |
| 0°-180°   | 31286.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P194634

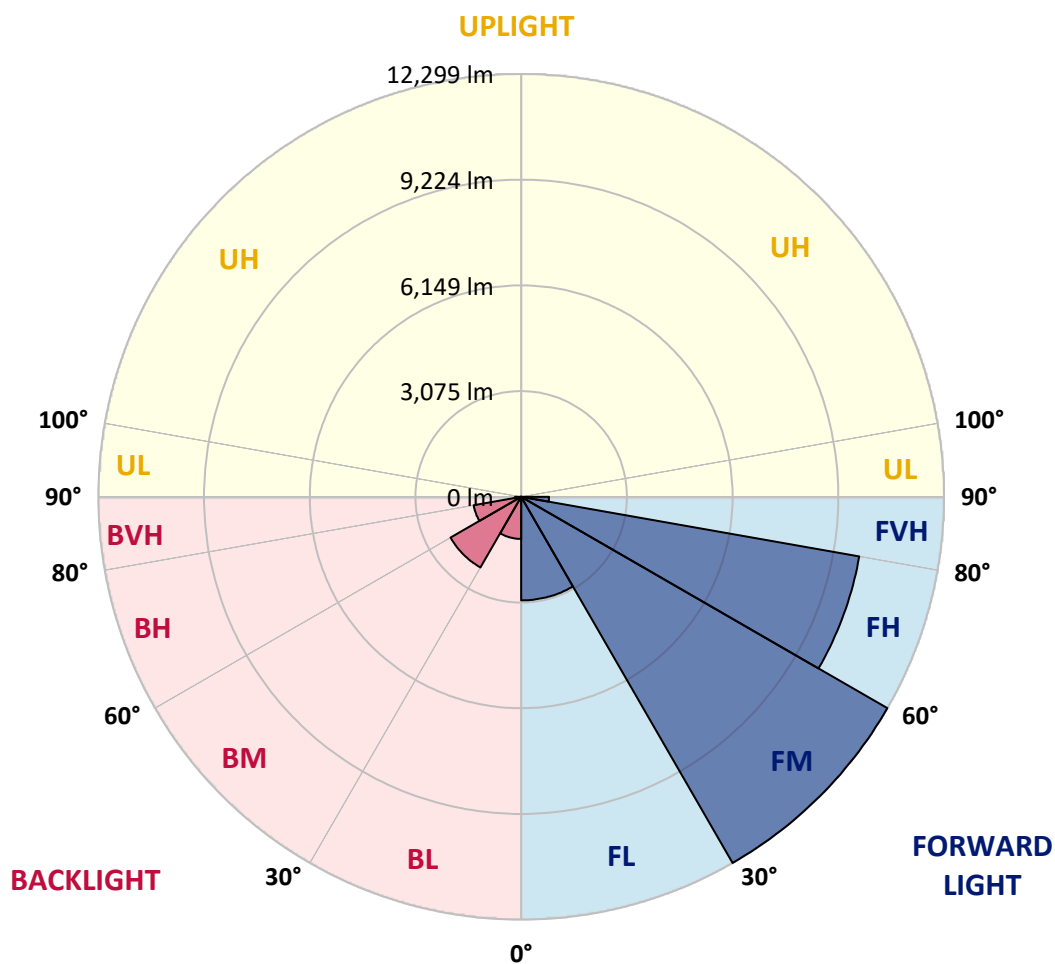
CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7060

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3012.7  | 9.6       |                         |      |          |
| FM   | (30°-60°)   | 12298.8 | 39.3      |                         |      |          |
| FH   | (60°-80°)   | 9985.4  | 31.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 811.6   | 2.6       |                         |      | G5       |
| BL   | (0°-30°)    | 1224.9  | 3.9       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2372.3  | 7.6       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1403.6  | 4.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 176.7   | 0.6       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G5**

Type IV Short



REPORT NUMBER: P194634

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7060

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 |
| 2.5°  | 10982.9 | 11158.3 | 11500.5 | 11756.8 | 12068.1 | 12140.3 | 12240.1 | 12142.0 | 11968.3 | 11737.9 | 11662.2 |
| 5°    | 10327.6 | 10702.5 | 11533.2 | 12264.1 | 12914.2 | 13216.9 | 13301.2 | 13051.8 | 12547.9 | 11885.8 | 11481.6 |
| 7.5°  | 9276.8  | 9809.9  | 10934.7 | 12011.3 | 12969.3 | 13535.1 | 13521.3 | 12941.7 | 12014.8 | 10936.4 | 10288.0 |
| 10°   | 8370.4  | 8979.3  | 10269.1 | 11473.0 | 12489.4 | 13038.1 | 12826.5 | 12085.3 | 10979.4 | 9737.7  | 9034.3  |
| 12.5° | 7863.1  | 8459.9  | 9768.7  | 10977.7 | 11827.3 | 12016.5 | 11854.8 | 11129.0 | 10086.8 | 8831.3  | 8215.6  |
| 15°   | 7775.4  | 8430.6  | 9569.2  | 10552.9 | 11029.3 | 10864.2 | 10671.6 | 10346.5 | 9610.4  | 8539.0  | 7897.5  |
| 17.5° | 8155.4  | 8877.8  | 9797.9  | 10257.1 | 10176.3 | 9889.0  | 9834.0  | 9870.1  | 9693.0  | 8864.0  | 8124.5  |
| 20°   | 8884.7  | 9751.5  | 10343.1 | 10117.8 | 9527.9  | 9132.3  | 9146.1  | 9698.1  | 10222.7 | 9687.8  | 8843.4  |
| 22.5° | 9908.0  | 10896.9 | 11129.0 | 10191.7 | 9254.4  | 8784.9  | 8898.4  | 9792.7  | 11067.1 | 10891.7 | 9813.4  |
| 25°   | 11232.2 | 12133.4 | 11966.6 | 10460.0 | 9281.9  | 8827.9  | 8919.1  | 10119.5 | 12064.6 | 12095.6 | 11013.8 |
| 27.5° | 12515.2 | 13351.1 | 12670.0 | 10816.0 | 9395.4  | 8929.4  | 9049.8  | 10633.7 | 13017.4 | 13402.7 | 12386.2 |
| 30°   | 13516.2 | 14097.5 | 12948.6 | 11141.1 | 9619.0  | 9127.2  | 9276.8  | 11122.2 | 13450.8 | 14284.9 | 13442.2 |
| 32.5° | 14345.1 | 14763.0 | 13392.3 | 11543.5 | 10030.1 | 9438.4  | 9701.6  | 11715.5 | 14075.1 | 15124.2 | 14475.8 |
| 35°   | 15404.5 | 15523.2 | 13944.4 | 11992.4 | 10664.7 | 9980.2  | 10307.0 | 12296.8 | 14670.2 | 15972.1 | 15494.0 |
| 37.5° | 16646.3 | 16493.2 | 14465.5 | 12606.4 | 11485.0 | 10828.1 | 11098.1 | 12934.9 | 15160.3 | 16933.5 | 16534.5 |
| 40°   | 17874.2 | 17506.2 | 15119.1 | 13559.2 | 12682.1 | 11827.3 | 12147.2 | 13615.9 | 15617.8 | 17896.6 | 17550.9 |
| 42.5° | 18918.2 | 18373.0 | 15764.0 | 14606.5 | 13796.5 | 12929.7 | 13311.5 | 14302.1 | 16054.6 | 18718.7 | 18433.2 |
| 45°   | 19690.4 | 19012.8 | 16378.0 | 15612.6 | 15332.3 | 14395.0 | 14575.6 | 15088.1 | 16527.6 | 19404.9 | 19158.9 |
| 47.5° | 20380.0 | 19656.0 | 17072.8 | 16627.3 | 16675.5 | 16300.6 | 16009.9 | 16003.0 | 17084.8 | 19965.5 | 19845.2 |
| 50°   | 21303.6 | 20548.6 | 17819.2 | 17673.0 | 18691.1 | 18441.8 | 17800.3 | 17071.1 | 17790.0 | 20601.9 | 20588.1 |
| 52.5° | 22576.3 | 21962.3 | 18730.7 | 18799.5 | 20572.6 | 20736.0 | 19941.5 | 18354.1 | 18894.1 | 21769.7 | 21687.1 |
| 55°   | 24081.1 | 23723.4 | 19972.4 | 20094.5 | 22880.7 | 22997.6 | 22208.2 | 19958.7 | 20517.6 | 23460.2 | 23231.5 |
| 57.5° | 25255.8 | 25180.1 | 21334.5 | 21649.3 | 24603.9 | 25130.2 | 24404.4 | 21816.1 | 22347.5 | 24884.3 | 24309.8 |
| 60°   | 25723.5 | 26089.9 | 22784.4 | 23217.8 | 26198.2 | 26781.2 | 26144.9 | 23448.2 | 23969.3 | 25474.2 | 24235.9 |
| 62.5° | 25470.7 | 26289.4 | 24328.8 | 24292.6 | 26554.2 | 27182.0 | 26734.8 | 24356.3 | 25171.5 | 24865.4 | 23009.7 |
| 65°   | 24303.0 | 25572.2 | 25224.8 | 24015.8 | 25336.6 | 25388.2 | 25243.7 | 23950.4 | 25455.3 | 22940.9 | 20639.7 |
| 67.5° | 21759.3 | 23585.8 | 24045.0 | 21642.4 | 22051.7 | 21716.3 | 21473.8 | 21728.4 | 23976.2 | 20056.7 | 17346.2 |
| 70°   | 17722.9 | 20471.2 | 20691.3 | 17310.1 | 17124.4 | 16899.1 | 16415.8 | 17814.0 | 21057.6 | 16438.2 | 13763.8 |
| 72.5° | 13031.2 | 15920.5 | 16596.4 | 12695.8 | 11835.9 | 11882.3 | 11500.5 | 13425.0 | 17120.9 | 12210.8 | 10276.0 |
| 75°   | 8915.6  | 11528.0 | 12984.7 | 8858.9  | 7827.0  | 7845.9  | 7797.7  | 9512.4  | 13636.6 | 8494.3  | 7689.4  |
| 77.5° | 6513.0  | 8236.3  | 9792.7  | 5955.8  | 5782.1  | 5675.5  | 5649.7  | 6655.8  | 10454.9 | 6167.3  | 5971.3  |
| 80°   | 5226.6  | 6084.8  | 6578.4  | 4127.6  | 4438.9  | 4430.3  | 4287.5  | 4576.5  | 6827.7  | 4511.1  | 4466.4  |
| 82.5° | 3625.4  | 4676.2  | 5329.8  | 3235.0  | 2995.9  | 2946.1  | 2980.5  | 3408.7  | 4825.9  | 3083.7  | 2932.3  |
| 85°   | 1912.5  | 3106.0  | 5278.2  | 2867.0  | 1778.3  | 1418.9  | 1764.5  | 2791.3  | 4180.9  | 1633.8  | 1430.9  |
| 87.5° | 244.2   | 897.8   | 3494.7  | 1143.7  | 701.7   | 378.4   | 837.6   | 1571.9  | 2684.7  | 333.6   | 290.7   |
| 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: P194634

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7060

**CANDELA DISTRIBUTION (continued):**

|       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    | 185°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 |
| 2.5°  | 11467.8 | 11239.1 | 10939.9 | 10663.0 | 10375.8 | 10090.3 | 9717.1  | 9483.2  | 9321.5  | 9290.5  | 9221.7  |
| 5°    | 11189.2 | 10429.1 | 9854.6  | 9357.6  | 8907.0  | 8270.7  | 7918.1  | 7625.7  | 7469.2  | 7453.8  | 7415.9  |
| 7.5°  | 9904.5  | 8855.4  | 8079.8  | 7376.4  | 6738.3  | 6224.1  | 5656.5  | 5391.7  | 5283.3  | 5309.1  | 5334.9  |
| 10°   | 8568.2  | 7395.3  | 6504.4  | 5785.5  | 5223.1  | 4789.7  | 4334.0  | 4026.1  | 3812.9  | 3769.9  | 3761.3  |
| 12.5° | 7591.3  | 6304.9  | 5439.8  | 4932.5  | 4497.4  | 4089.8  | 3606.5  | 3243.6  | 2966.7  | 2872.1  | 2808.5  |
| 15°   | 7178.6  | 5771.8  | 4865.4  | 4318.5  | 3838.7  | 3321.0  | 2872.1  | 2492.0  | 2237.5  | 2155.0  | 2108.5  |
| 17.5° | 7266.3  | 5623.9  | 4469.8  | 3769.9  | 3155.9  | 2615.9  | 2050.0  | 1725.0  | 1571.9  | 1532.4  | 1532.4  |
| 20°   | 7727.2  | 5596.3  | 4143.1  | 3264.2  | 2498.9  | 1872.9  | 1408.5  | 1222.8  | 1172.9  | 1167.8  | 1181.5  |
| 22.5° | 8373.9  | 5692.6  | 3898.9  | 2825.7  | 1941.7  | 1367.3  | 1097.3  | 1028.5  | 1006.1  | 1011.3  | 1026.7  |
| 25°   | 9337.0  | 6017.7  | 3721.7  | 2435.3  | 1523.8  | 1119.6  | 978.6   | 937.3   | 927.0   | 940.7   | 959.7   |
| 27.5° | 10478.9 | 6342.7  | 3611.7  | 2141.2  | 1286.4  | 1023.3  | 930.4   | 887.4   | 894.3   | 911.5   | 928.7   |
| 30°   | 11481.6 | 6609.3  | 3437.9  | 1931.4  | 1212.5  | 1028.5  | 930.4   | 872.0   | 865.1   | 868.5   | 873.7   |
| 32.5° | 12381.1 | 6789.9  | 3235.0  | 1731.9  | 1045.7  | 913.2   | 868.5   | 859.9   | 822.1   | 808.3   | 810.0   |
| 35°   | 13156.7 | 6789.9  | 3112.9  | 1614.9  | 937.3   | 810.0   | 737.8   | 694.8   | 675.9   | 677.6   | 696.5   |
| 37.5° | 13904.9 | 6654.0  | 3052.7  | 1549.6  | 878.8   | 770.5   | 706.9   | 669.0   | 643.2   | 638.1   | 641.5   |
| 40°   | 14565.3 | 6456.3  | 2983.9  | 1522.1  | 834.1   | 746.4   | 686.2   | 655.3   | 627.7   | 619.1   | 620.9   |
| 42.5° | 15095.0 | 6296.3  | 2908.2  | 1485.9  | 806.6   | 729.2   | 672.5   | 644.9   | 614.0   | 605.4   | 603.7   |
| 45°   | 15667.7 | 6243.0  | 2808.5  | 1413.7  | 820.4   | 730.9   | 669.0   | 639.8   | 608.8   | 598.5   | 595.1   |
| 47.5° | 16422.7 | 6409.8  | 2705.3  | 1327.7  | 849.6   | 739.5   | 674.2   | 639.8   | 607.1   | 598.5   | 595.1   |
| 50°   | 17373.8 | 6801.9  | 2574.6  | 1202.2  | 820.4   | 763.6   | 672.5   | 634.6   | 607.1   | 598.5   | 591.6   |
| 52.5° | 18594.8 | 7331.6  | 2402.6  | 1057.7  | 803.2   | 822.1   | 669.0   | 624.3   | 598.5   | 586.5   | 574.4   |
| 55°   | 20079.1 | 7765.0  | 2197.9  | 939.0   | 763.6   | 806.6   | 663.9   | 612.3   | 584.7   | 567.5   | 557.2   |
| 57.5° | 21166.0 | 7921.6  | 1934.8  | 861.6   | 708.6   | 780.8   | 657.0   | 596.8   | 567.5   | 553.8   | 540.0   |
| 60°   | 20951.0 | 7618.9  | 1713.0  | 813.5   | 675.9   | 705.1   | 651.8   | 583.0   | 552.1   | 541.7   | 529.7   |
| 62.5° | 19229.5 | 6827.7  | 1570.2  | 791.1   | 655.3   | 643.2   | 657.0   | 569.3   | 538.3   | 528.0   | 524.5   |
| 65°   | 16648.0 | 5660.0  | 1513.5  | 786.0   | 638.1   | 607.1   | 610.5   | 553.8   | 522.8   | 514.2   | 510.8   |
| 67.5° | 13732.9 | 4567.9  | 1463.6  | 803.2   | 615.7   | 581.3   | 564.1   | 533.1   | 507.4   | 498.8   | 491.9   |
| 70°   | 10829.8 | 3799.1  | 1441.2  | 792.8   | 588.2   | 555.5   | 536.6   | 510.8   | 488.4   | 479.8   | 474.7   |
| 72.5° | 8721.3  | 3209.2  | 1429.2  | 782.5   | 552.1   | 521.1   | 503.9   | 481.6   | 457.5   | 454.0   | 448.9   |
| 75°   | 7379.8  | 2523.0  | 1308.8  | 749.8   | 510.8   | 479.8   | 467.8   | 447.2   | 423.1   | 423.1   | 419.6   |
| 77.5° | 5692.6  | 1824.7  | 1088.7  | 663.9   | 467.8   | 433.4   | 423.1   | 407.6   | 380.1   | 385.2   | 383.5   |
| 80°   | 4205.0  | 1190.1  | 851.3   | 550.3   | 414.5   | 381.8   | 376.6   | 361.2   | 331.9   | 338.8   | 338.8   |
| 82.5° | 2880.7  | 780.8   | 612.3   | 450.6   | 354.3   | 323.3   | 323.3   | 307.9   | 275.2   | 278.6   | 288.9   |
| 85°   | 1446.4  | 536.6   | 457.5   | 349.1   | 275.2   | 259.7   | 259.7   | 247.7   | 215.0   | 216.7   | 230.5   |
| 87.5° | 440.3   | 323.3   | 302.7   | 249.4   | 197.8   | 194.3   | 185.7   | 177.1   | 156.5   | 154.8   | 163.4   |
| 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: P194634

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7060

**CANDELA DISTRIBUTION (continued):**

|       | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    | 285°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 |
| 2.5°  | 9116.8  | 9018.8  | 8900.1  | 8638.7  | 8551.0  | 8545.9  | 8625.0  | 8542.4  | 8700.6  | 8633.6  | 8707.5  |
| 5°    | 7352.3  | 7256.0  | 7123.5  | 6789.9  | 6587.0  | 6449.4  | 6384.0  | 6191.4  | 6330.7  | 6229.2  | 6313.5  |
| 7.5°  | 5407.2  | 5429.5  | 5341.8  | 5145.7  | 4703.7  | 4481.9  | 4351.2  | 4234.2  | 4335.7  | 4325.4  | 4487.0  |
| 10°   | 3800.8  | 3861.0  | 3799.1  | 3601.3  | 3243.6  | 3121.5  | 3145.6  | 3192.0  | 3324.4  | 3393.2  | 3642.6  |
| 12.5° | 2736.3  | 2732.8  | 2693.3  | 2516.1  | 2280.5  | 2294.3  | 2392.3  | 2473.1  | 2595.2  | 2667.5  | 2922.0  |
| 15°   | 2043.2  | 2012.2  | 1995.0  | 1850.5  | 1716.4  | 1745.6  | 1793.8  | 1802.4  | 1879.8  | 1922.8  | 2129.2  |
| 17.5° | 1544.4  | 1559.9  | 1578.8  | 1475.6  | 1374.1  | 1355.2  | 1317.4  | 1271.0  | 1293.3  | 1301.9  | 1405.1  |
| 20°   | 1226.2  | 1288.2  | 1334.6  | 1262.4  | 1159.2  | 1104.1  | 1056.0  | 1025.0  | 1025.0  | 1023.3  | 1052.5  |
| 22.5° | 1071.5  | 1116.2  | 1166.0  | 1116.2  | 1023.3  | 975.1   | 947.6   | 923.6   | 920.1   | 920.1   | 947.6   |
| 25°   | 987.2   | 1019.9  | 1068.0  | 1033.6  | 964.8   | 928.7   | 902.9   | 872.0   | 859.9   | 856.5   | 875.4   |
| 27.5° | 945.9   | 959.7   | 983.7   | 952.8   | 894.3   | 877.1   | 870.2   | 842.7   | 827.2   | 818.6   | 837.6   |
| 30°   | 875.4   | 872.0   | 873.7   | 842.7   | 796.3   | 794.6   | 806.6   | 811.8   | 806.6   | 804.9   | 834.1   |
| 32.5° | 810.0   | 803.2   | 801.4   | 773.9   | 730.9   | 720.6   | 730.9   | 741.2   | 753.3   | 770.5   | 804.9   |
| 35°   | 727.5   | 744.7   | 755.0   | 730.9   | 679.3   | 648.4   | 636.3   | 617.4   | 607.1   | 607.1   | 646.7   |
| 37.5° | 662.1   | 701.7   | 717.2   | 694.8   | 638.1   | 595.1   | 574.4   | 571.0   | 572.7   | 579.6   | 617.4   |
| 40°   | 639.8   | 669.0   | 682.8   | 660.4   | 603.7   | 564.1   | 552.1   | 548.6   | 552.1   | 562.4   | 600.2   |
| 42.5° | 626.0   | 646.7   | 644.9   | 617.4   | 571.0   | 543.5   | 536.6   | 533.1   | 536.6   | 546.9   | 588.2   |
| 45°   | 614.0   | 627.7   | 614.0   | 581.3   | 538.3   | 524.5   | 526.3   | 524.5   | 528.0   | 538.3   | 577.9   |
| 47.5° | 603.7   | 608.8   | 591.6   | 558.9   | 514.2   | 510.8   | 517.7   | 522.8   | 526.3   | 534.9   | 576.1   |
| 50°   | 588.2   | 588.2   | 572.7   | 538.3   | 493.6   | 495.3   | 503.9   | 516.0   | 517.7   | 528.0   | 560.7   |
| 52.5° | 569.3   | 567.5   | 557.2   | 524.5   | 476.4   | 481.6   | 481.6   | 495.3   | 498.8   | 510.8   | 545.2   |
| 55°   | 553.8   | 550.3   | 545.2   | 514.2   | 460.9   | 469.5   | 464.4   | 469.5   | 478.1   | 490.2   | 528.0   |
| 57.5° | 540.0   | 533.1   | 533.1   | 505.6   | 448.9   | 452.3   | 440.3   | 447.2   | 457.5   | 467.8   | 507.4   |
| 60°   | 526.3   | 519.4   | 522.8   | 493.6   | 430.0   | 426.5   | 421.4   | 435.1   | 438.6   | 450.6   | 490.2   |
| 62.5° | 510.8   | 505.6   | 507.4   | 479.8   | 416.2   | 407.6   | 407.6   | 419.6   | 421.4   | 438.6   | 476.4   |
| 65°   | 498.8   | 491.9   | 490.2   | 466.1   | 400.7   | 390.4   | 395.6   | 400.7   | 404.2   | 421.4   | 457.5   |
| 67.5° | 486.7   | 473.0   | 473.0   | 454.0   | 383.5   | 373.2   | 383.5   | 381.8   | 387.0   | 402.4   | 431.7   |
| 70°   | 471.2   | 452.3   | 454.0   | 445.4   | 366.3   | 354.3   | 362.9   | 361.2   | 364.6   | 374.9   | 404.2   |
| 72.5° | 447.2   | 431.7   | 435.1   | 431.7   | 349.1   | 331.9   | 335.4   | 335.4   | 335.4   | 344.0   | 374.9   |
| 75°   | 416.2   | 404.2   | 414.5   | 423.1   | 328.5   | 304.4   | 307.9   | 307.9   | 302.7   | 307.9   | 345.7   |
| 77.5° | 378.4   | 371.5   | 405.9   | 393.8   | 304.4   | 275.2   | 275.2   | 271.7   | 261.4   | 268.3   | 309.6   |
| 80°   | 337.1   | 331.9   | 374.9   | 330.2   | 276.9   | 239.1   | 235.6   | 227.0   | 216.7   | 221.9   | 263.1   |
| 82.5° | 294.1   | 288.9   | 314.7   | 252.8   | 239.1   | 197.8   | 189.2   | 173.7   | 163.4   | 168.5   | 206.4   |
| 85°   | 240.8   | 240.8   | 242.5   | 190.9   | 182.3   | 151.3   | 141.0   | 120.4   | 108.3   | 111.8   | 147.9   |
| 87.5° | 172.0   | 177.1   | 163.4   | 130.7   | 108.3   | 84.3    | 77.4    | 65.4    | 55.0    | 63.6    | 77.4    |
| 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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|       | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 | 10570.1 |
| 2.5°  | 9085.9  | 9275.1  | 9490.0  | 9765.2  | 10000.8 | 10387.8 | 10759.3 | 10982.9 |
| 5°    | 6793.3  | 7108.1  | 7500.2  | 8004.1  | 8473.6  | 9178.8  | 9878.7  | 10327.6 |
| 7.5°  | 4862.0  | 5199.1  | 5622.1  | 6251.6  | 6915.5  | 7814.9  | 8740.2  | 9276.8  |
| 10°   | 4022.7  | 4368.4  | 4724.4  | 5149.2  | 5692.6  | 6671.2  | 7765.0  | 8370.4  |
| 12.5° | 3327.9  | 3697.6  | 4081.2  | 4528.3  | 5032.2  | 5905.9  | 7166.5  | 7863.1  |
| 15°   | 2547.1  | 2959.8  | 3412.1  | 3978.0  | 4609.2  | 5618.7  | 7018.6  | 7775.4  |
| 17.5° | 1745.6  | 2206.5  | 2762.1  | 3460.3  | 4232.5  | 5525.8  | 7283.5  | 8155.4  |
| 20°   | 1202.2  | 1537.5  | 2130.9  | 2949.5  | 3878.2  | 5513.8  | 7792.6  | 8884.7  |
| 22.5° | 1006.1  | 1155.7  | 1589.1  | 2480.0  | 3611.7  | 5661.7  | 8582.0  | 9908.0  |
| 25°   | 930.4   | 1019.9  | 1269.2  | 2072.4  | 3417.3  | 6002.2  | 9668.9  | 11232.2 |
| 27.5° | 885.7   | 966.5   | 1152.3  | 1805.8  | 3264.2  | 6397.8  | 10726.6 | 12515.2 |
| 30°   | 902.9   | 985.5   | 1119.6  | 1670.0  | 3056.1  | 6728.0  | 11665.6 | 13516.2 |
| 32.5° | 813.5   | 849.6   | 959.7   | 1549.6  | 2906.5  | 7004.9  | 12487.7 | 14345.1 |
| 35°   | 693.1   | 756.7   | 856.5   | 1492.8  | 2910.0  | 7190.6  | 13383.7 | 15404.5 |
| 37.5° | 660.4   | 724.0   | 796.3   | 1472.2  | 2949.5  | 7388.4  | 14412.2 | 16646.3 |
| 40°   | 639.8   | 698.3   | 760.2   | 1460.1  | 2987.4  | 7569.0  | 15420.0 | 17874.2 |
| 42.5° | 626.0   | 679.3   | 756.7   | 1418.9  | 3006.3  | 7730.7  | 16249.0 | 18918.2 |
| 45°   | 624.3   | 679.3   | 770.5   | 1377.6  | 3035.5  | 7904.4  | 16943.8 | 19690.4 |
| 47.5° | 626.0   | 701.7   | 744.7   | 1327.7  | 3035.5  | 8195.0  | 17759.0 | 20380.0 |
| 50°   | 619.1   | 739.5   | 717.2   | 1257.2  | 2965.0  | 8745.4  | 18876.9 | 21303.6 |
| 52.5° | 615.7   | 734.4   | 663.9   | 1148.8  | 2842.9  | 9619.0  | 20309.5 | 22576.3 |
| 55°   | 607.1   | 708.6   | 626.0   | 987.2   | 2700.1  | 10571.8 | 21843.6 | 24081.1 |
| 57.5° | 598.5   | 627.7   | 605.4   | 846.2   | 2480.0  | 11242.6 | 22899.6 | 25255.8 |
| 60°   | 670.7   | 548.6   | 588.2   | 777.4   | 2185.9  | 11426.6 | 22858.3 | 25723.5 |
| 62.5° | 620.9   | 514.2   | 565.8   | 761.9   | 1979.5  | 10910.6 | 21802.3 | 25470.7 |
| 65°   | 486.7   | 491.9   | 543.5   | 806.6   | 1924.5  | 9543.4  | 19931.1 | 24303.0 |
| 67.5° | 445.4   | 469.5   | 521.1   | 863.4   | 1929.7  | 7641.2  | 17134.7 | 21759.3 |
| 70°   | 419.6   | 445.4   | 495.3   | 892.6   | 1943.4  | 5696.1  | 13547.1 | 17722.9 |
| 72.5° | 390.4   | 412.8   | 466.1   | 897.8   | 1854.0  | 4137.9  | 10441.1 | 13031.2 |
| 75°   | 356.0   | 376.6   | 424.8   | 782.5   | 1535.8  | 2870.4  | 7986.9  | 8915.6  |
| 77.5° | 316.4   | 331.9   | 373.2   | 603.7   | 1140.2  | 1836.8  | 5995.3  | 6513.0  |
| 80°   | 270.0   | 278.6   | 313.0   | 442.0   | 780.8   | 1148.8  | 4743.3  | 5226.6  |
| 82.5° | 216.7   | 220.1   | 242.5   | 331.9   | 507.4   | 737.8   | 3176.5  | 3625.4  |
| 85°   | 153.1   | 153.1   | 166.8   | 240.8   | 345.7   | 467.8   | 1725.0  | 1912.5  |
| 87.5° | 72.2    | 74.0    | 74.0    | 132.4   | 180.6   | 237.3   | 397.3   | 244.2   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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