

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: P194728

Luminaire Tested: **GLEON-AF-10-LED-E1-T2-7060-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194728  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-T2-7060-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 63424 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G5

Input Watts (W): 640  
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



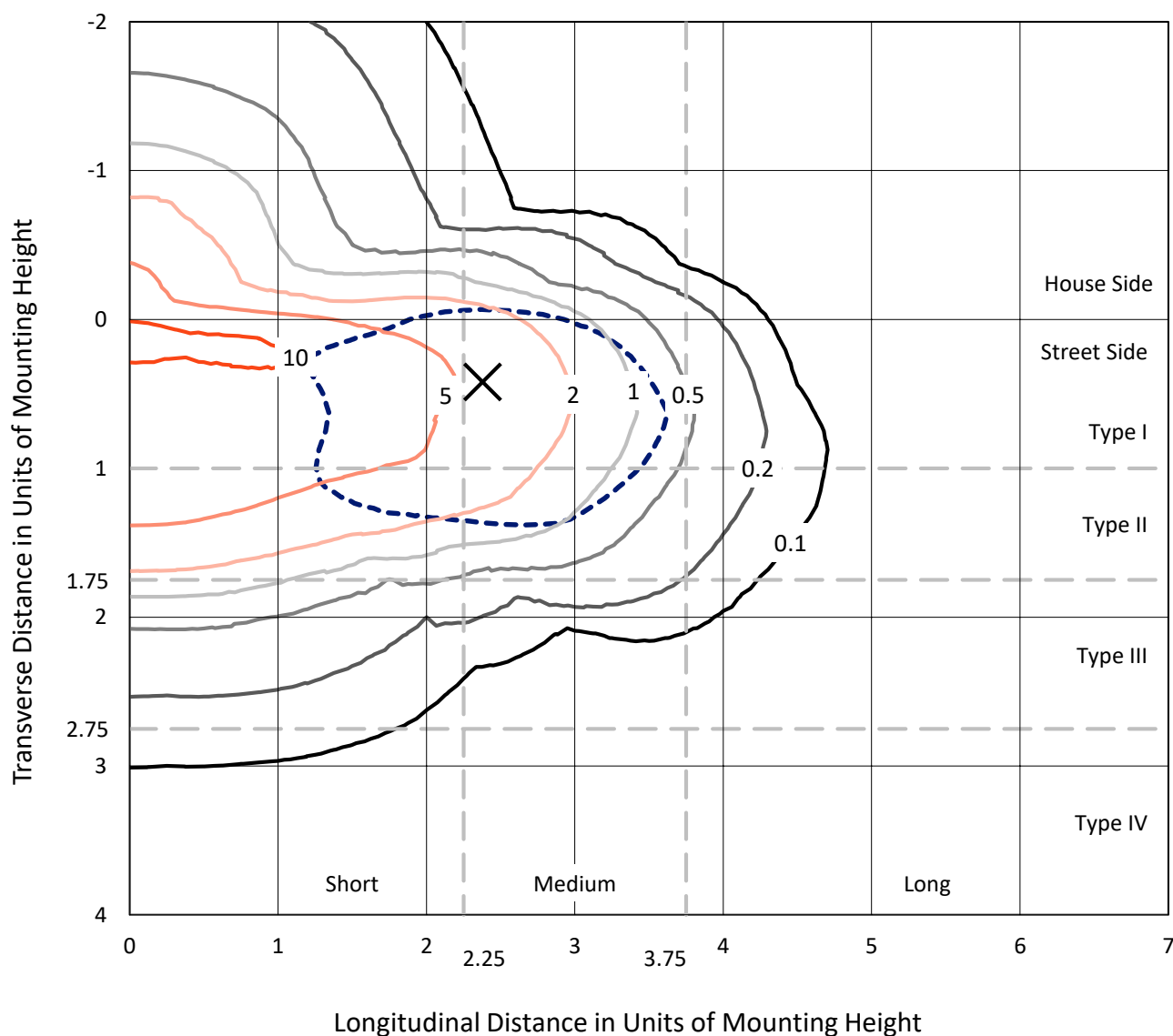
REPORT NUMBER: P194728

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2-7060-1200

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

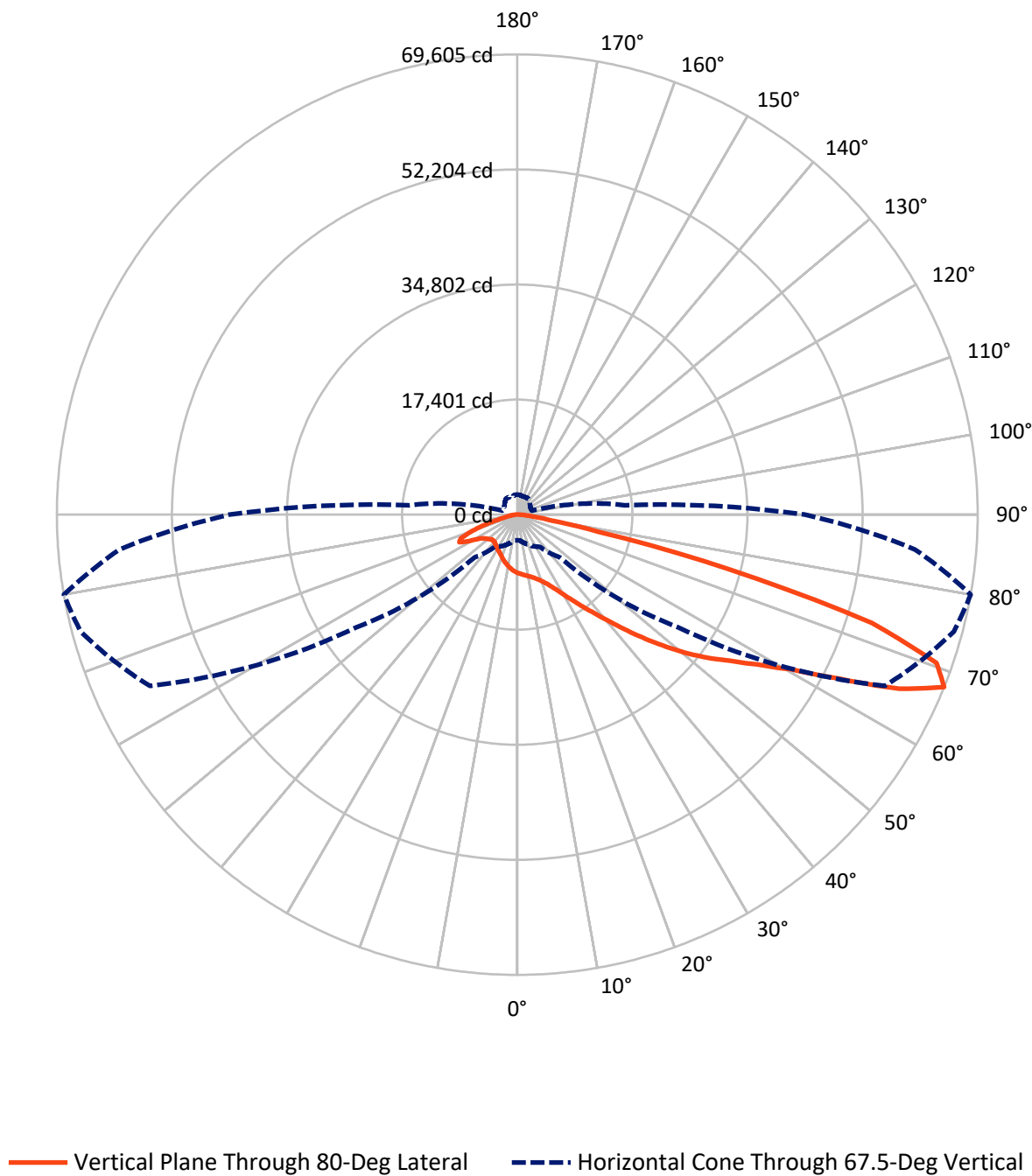


Based on 30 foot mounting height. Maximum calculated value = 11.9 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P194728

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2-7060-1200

## Luminous Intensity Polar Plot



REPORT NUMBER: P194728

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2-7060-1200

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11680.3  | 0.0    | 11680.3 |
|                    | % Fixture | 18.4     | 0.0    | 18.4    |
| <b>Street Side</b> | Lumens    | 51743.7  | 0.0    | 51743.7 |
|                    | % Fixture | 81.6     | 0.0    | 81.6    |
| <b>Total</b>       | Lumens    | 63424.0  | 0.0    | 63424.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 812.8   | 1.3       |
| 10°-20°   | 2341.5  | 3.7       |
| 20°-30°   | 3875.7  | 6.1       |
| 30°-40°   | 6339.6  | 10.0      |
| 40°-50°   | 10235.9 | 16.1      |
| 50°-60°   | 14777.7 | 23.3      |
| 60°-70°   | 16308.0 | 25.7      |
| 70°-80°   | 7517.0  | 11.9      |
| 80°-90°   | 1215.8  | 1.9       |
| 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°    | 63424.0 | 100.0     |
| 0°-180°   | 63424.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P194728

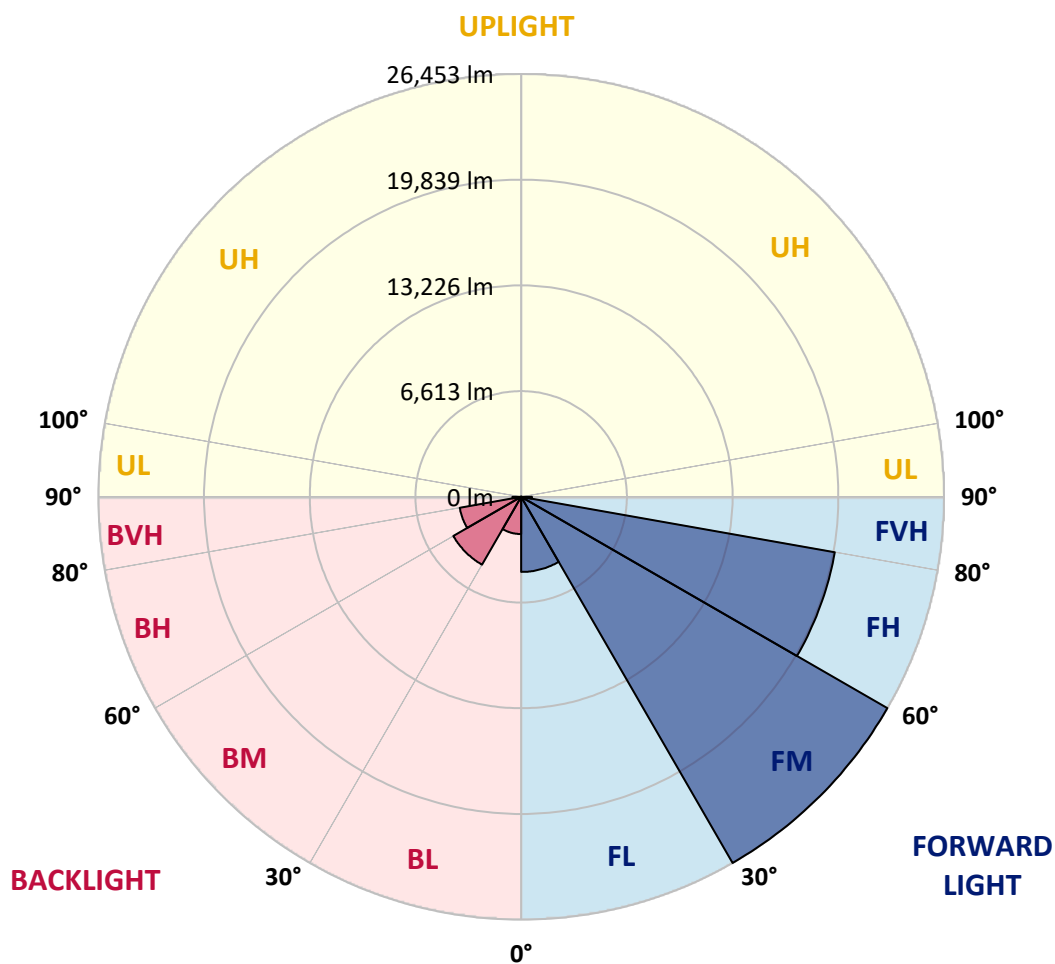
CATALOG NUMBER: GLEON-AF-10-LED-E1-T2-7060-1200

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4699.6  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 26452.5 | 41.7      |                         |      |         |
| FH   | (60°-80°)   | 19923.1 | 31.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 668.4   | 1.1       |                         |      | G4/750  |
| BL   | (0°-30°)    | 2330.4  | 3.7       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4900.6  | 7.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3901.9  | 6.2       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 547.4   | 0.9       |                         |      | G4/750  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type II Medium



REPORT NUMBER: P194728

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2-7060-1200

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 80°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8811.4  | 8811.4  | 8811.4  | 8811.4  | 8811.4  | 8811.4  | 8811.4  | 8811.4  | 8811.4  | 8811.4  | 8811.4  |
| 2.5°  | 9638.9  | 9582.7  | 9592.0  | 9576.4  | 9529.6  | 9448.4  | 9361.0  | 9201.7  | 9036.3  | 8948.8  | 8880.1  |
| 5°    | 10444.5 | 10428.8 | 10407.0 | 10357.0 | 10238.4 | 10069.8 | 9860.6  | 9579.6  | 9276.7  | 9117.4  | 8964.4  |
| 7.5°  | 11047.1 | 11037.7 | 11009.6 | 10978.4 | 10862.9 | 10659.9 | 10344.5 | 9944.9  | 9504.6  | 9286.0  | 9048.7  |
| 10°   | 11097.0 | 11112.7 | 11134.5 | 11218.8 | 11234.4 | 11125.1 | 10803.5 | 10319.6 | 9741.9  | 9460.9  | 9158.0  |
| 12.5° | 10672.4 | 10706.7 | 10791.0 | 11006.5 | 11234.4 | 11368.7 | 11203.2 | 10713.0 | 10019.8 | 9679.5  | 9295.4  |
| 15°   | 10110.4 | 10129.1 | 10232.1 | 10528.8 | 10937.8 | 11353.1 | 11509.2 | 11147.0 | 10378.9 | 9960.5  | 9501.5  |
| 17.5° | 9869.9  | 9879.3  | 9951.1  | 10147.8 | 10528.8 | 11122.0 | 11680.9 | 11618.5 | 10819.1 | 10310.2 | 9754.4  |
| 20°   | 9748.2  | 9770.0  | 9873.1  | 10066.6 | 10307.1 | 10825.4 | 11705.9 | 12127.4 | 11343.7 | 10747.3 | 10072.9 |
| 22.5° | 10094.7 | 10085.4 | 10122.9 | 10219.6 | 10422.6 | 10734.8 | 11687.2 | 12652.0 | 12011.9 | 11309.4 | 10488.2 |
| 25°   | 10903.5 | 10937.8 | 10872.2 | 10762.9 | 10828.5 | 11047.1 | 11787.1 | 13220.3 | 12848.7 | 12030.6 | 11031.5 |
| 27.5° | 12055.6 | 12021.3 | 11924.5 | 11668.4 | 11534.2 | 11627.9 | 12118.1 | 13832.3 | 13888.5 | 12979.9 | 11749.6 |
| 30°   | 13204.7 | 13176.6 | 13082.9 | 12770.7 | 12495.9 | 12417.8 | 12761.3 | 14534.8 | 15128.1 | 14119.5 | 12630.1 |
| 32.5° | 14397.4 | 14366.2 | 14278.8 | 13966.5 | 13635.6 | 13454.5 | 13676.2 | 15346.6 | 16589.4 | 15480.9 | 13666.8 |
| 35°   | 15868.1 | 15808.8 | 15624.5 | 15190.5 | 14865.8 | 14725.3 | 14828.3 | 16367.7 | 18275.5 | 17092.1 | 14925.1 |
| 37.5° | 17251.3 | 17341.9 | 17154.5 | 16555.0 | 16133.5 | 16083.5 | 16199.1 | 17613.5 | 20092.7 | 18893.7 | 16370.8 |
| 40°   | 18640.8 | 18656.4 | 18487.8 | 17997.6 | 17563.6 | 17482.4 | 17772.8 | 19124.8 | 22237.8 | 21048.2 | 18128.7 |
| 42.5° | 20077.1 | 20108.3 | 19824.2 | 19371.4 | 19052.9 | 19068.6 | 19399.5 | 20895.2 | 24698.3 | 23586.7 | 20152.0 |
| 45°   | 21778.8 | 21825.6 | 21513.4 | 20920.1 | 20629.8 | 21213.6 | 21076.3 | 22881.0 | 27396.0 | 26471.8 | 22475.1 |
| 47.5° | 23558.6 | 23630.4 | 23393.1 | 22837.3 | 22475.1 | 23277.6 | 22753.0 | 25082.3 | 30299.9 | 29566.1 | 25026.1 |
| 50°   | 24529.6 | 24632.7 | 24863.7 | 24823.2 | 24745.1 | 24610.8 | 24623.3 | 27442.9 | 33294.2 | 32788.4 | 27648.9 |
| 52.5° | 24008.2 | 24005.1 | 24848.1 | 25872.3 | 26965.1 | 27046.3 | 26902.7 | 29931.4 | 36091.9 | 35938.9 | 30118.8 |
| 55°   | 21622.7 | 21785.0 | 23062.1 | 25044.8 | 28029.9 | 29893.9 | 30318.6 | 32782.2 | 38839.6 | 39017.6 | 32626.1 |
| 57.5° | 17651.0 | 17785.2 | 19508.8 | 22272.1 | 26593.6 | 31586.3 | 35177.1 | 36925.6 | 41912.1 | 42742.7 | 35963.9 |
| 60°   | 11971.3 | 12133.7 | 13960.3 | 17279.4 | 22728.0 | 30643.3 | 39801.3 | 44319.5 | 45590.3 | 47479.4 | 40647.5 |
| 62.5° | 7034.8  | 7181.5  | 8670.9  | 10900.3 | 16002.3 | 26262.6 | 41830.9 | 54838.9 | 51432.3 | 54626.5 | 47791.6 |
| 65°   | 4842.9  | 4942.8  | 5667.2  | 6785.0  | 9195.5  | 17688.4 | 39314.3 | 62101.6 | 60421.7 | 63481.7 | 56075.3 |
| 67.5° | 3896.8  | 3884.3  | 4458.8  | 5220.7  | 5920.1  | 9120.6  | 29728.5 | 61280.4 | 68327.7 | 69604.7 | 60374.9 |
| 70°   | 3209.8  | 3197.3  | 3587.6  | 4218.4  | 4730.4  | 5136.4  | 16192.8 | 51713.3 | 66716.5 | 67234.8 | 56415.7 |
| 72.5° | 2685.3  | 2697.8  | 2947.6  | 3415.9  | 3881.2  | 3868.7  | 7116.0  | 36379.2 | 52484.6 | 56069.1 | 44972.1 |
| 75°   | 2266.9  | 2273.1  | 2438.6  | 2769.6  | 3150.5  | 3116.2  | 3859.3  | 19708.6 | 30509.1 | 33003.9 | 24929.3 |
| 77.5° | 1929.6  | 1935.9  | 2042.1  | 2226.3  | 2497.9  | 2485.4  | 2816.4  | 8514.8  | 12726.9 | 12570.8 | 8527.3  |
| 80°   | 1720.4  | 1720.4  | 1770.4  | 1804.8  | 1954.6  | 1898.4  | 2088.9  | 4090.4  | 5379.9  | 4967.8  | 3403.4  |
| 82.5° | 1348.9  | 1355.1  | 1661.1  | 1648.6  | 1539.3  | 1467.5  | 1467.5  | 2410.5  | 2850.8  | 2635.3  | 1992.1  |
| 85°   | 758.7   | 755.6   | 1071.0  | 1292.7  | 1355.1  | 1033.5  | 1024.2  | 1348.9  | 1551.8  | 1367.6  | 964.8   |
| 87.5° | 324.7   | 331.0   | 496.5   | 574.5   | 768.1   | 643.2   | 633.8   | 696.3   | 790.0   | 683.8   | 446.5   |
| 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: P194728

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2-7060-1200

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8811.4  | 8811.4  | 8811.4 | 8811.4 | 8811.4 | 8811.4 | 8811.4 | 8811.4 | 8811.4 | 8811.4 | 8811.4 |
| 2.5°  | 8814.6  | 8733.4  | 8555.4 | 8333.7 | 8133.9 | 8002.7 | 7884.1 | 7712.4 | 7721.7 | 7603.1 | 7515.6 |
| 5°    | 8808.3  | 8639.7  | 8227.5 | 7737.3 | 7265.8 | 6925.5 | 6669.5 | 6438.4 | 6382.2 | 6272.9 | 6207.3 |
| 7.5°  | 8814.6  | 8539.8  | 7846.6 | 7062.9 | 6479.0 | 6048.1 | 5829.5 | 5707.8 | 5679.7 | 5642.2 | 5645.3 |
| 10°   | 8836.4  | 8449.2  | 7428.2 | 6432.2 | 5820.2 | 5536.0 | 5483.0 | 5520.4 | 5564.1 | 5576.6 | 5579.7 |
| 12.5° | 8886.4  | 8368.1  | 6969.2 | 5870.1 | 5408.0 | 5320.6 | 5411.1 | 5539.2 | 5623.5 | 5664.0 | 5660.9 |
| 15°   | 8998.8  | 8305.6  | 6529.0 | 5429.9 | 5180.1 | 5226.9 | 5395.5 | 5576.6 | 5698.4 | 5754.6 | 5757.7 |
| 17.5° | 9120.6  | 8215.1  | 6076.2 | 5092.6 | 5011.5 | 5130.1 | 5339.3 | 5551.6 | 5701.5 | 5764.0 | 5776.5 |
| 20°   | 9279.8  | 8102.7  | 5601.6 | 4839.7 | 4852.2 | 4986.5 | 5183.2 | 5395.5 | 5561.0 | 5614.1 | 5639.1 |
| 22.5° | 9489.0  | 7980.9  | 5186.3 | 4633.7 | 4671.1 | 4774.2 | 4927.2 | 5111.4 | 5255.0 | 5280.0 | 5301.9 |
| 25°   | 9770.0  | 7849.7  | 4855.3 | 4446.3 | 4461.9 | 4521.2 | 4624.3 | 4733.6 | 4833.5 | 4805.4 | 4827.2 |
| 27.5° | 10147.8 | 7737.3  | 4608.7 | 4274.6 | 4246.5 | 4259.0 | 4312.0 | 4346.4 | 4399.5 | 4321.4 | 4330.8 |
| 30°   | 10591.2 | 7615.6  | 4418.2 | 4124.7 | 4046.6 | 4024.8 | 4037.3 | 4056.0 | 4096.6 | 3990.4 | 3974.8 |
| 32.5° | 11106.4 | 7468.8  | 4240.2 | 3993.6 | 3884.3 | 3840.6 | 3846.8 | 3896.8 | 4052.9 | 3987.3 | 3953.0 |
| 35°   | 11705.9 | 7303.3  | 4052.9 | 3849.9 | 3775.0 | 3712.5 | 3706.3 | 3862.4 | 4327.7 | 4287.1 | 4255.8 |
| 37.5° | 12408.5 | 7137.8  | 3865.5 | 3687.6 | 3693.8 | 3625.1 | 3603.3 | 3781.2 | 4380.7 | 4221.5 | 4199.6 |
| 40°   | 13301.5 | 7050.4  | 3706.3 | 3515.8 | 3593.9 | 3584.5 | 3540.8 | 3631.4 | 4031.0 | 3740.6 | 3703.2 |
| 42.5° | 14406.8 | 7062.9  | 3587.6 | 3331.6 | 3475.2 | 3575.2 | 3506.5 | 3509.6 | 3653.2 | 3434.6 | 3400.3 |
| 45°   | 15771.3 | 7209.6  | 3503.3 | 3184.9 | 3341.0 | 3565.8 | 3494.0 | 3444.0 | 3456.5 | 3341.0 | 3322.2 |
| 47.5° | 17363.7 | 7512.5  | 3444.0 | 3063.1 | 3213.0 | 3531.4 | 3490.9 | 3425.3 | 3397.2 | 3334.7 | 3319.1 |
| 50°   | 19134.1 | 7952.8  | 3400.3 | 2947.6 | 3097.4 | 3475.2 | 3494.0 | 3406.5 | 3375.3 | 3350.3 | 3341.0 |
| 52.5° | 20873.3 | 8455.5  | 3334.7 | 2847.6 | 3006.9 | 3406.5 | 3503.3 | 3387.8 | 3353.5 | 3334.7 | 3325.4 |
| 55°   | 22812.3 | 9083.1  | 3234.8 | 2763.3 | 2931.9 | 3319.1 | 3503.3 | 3359.7 | 3322.2 | 3325.4 | 3322.2 |
| 57.5° | 25432.0 | 10097.9 | 3116.2 | 2691.5 | 2841.4 | 3213.0 | 3444.0 | 3328.5 | 3281.7 | 3284.8 | 3287.9 |
| 60°   | 29525.5 | 11887.0 | 2972.5 | 2619.7 | 2729.0 | 3088.1 | 3362.8 | 3259.8 | 3213.0 | 3225.4 | 3228.6 |
| 62.5° | 35545.5 | 14513.0 | 2785.2 | 2513.5 | 2610.3 | 2953.8 | 3250.4 | 3172.4 | 3125.5 | 3156.8 | 3156.8 |
| 65°   | 41802.8 | 16829.8 | 2554.1 | 2379.3 | 2485.4 | 2807.0 | 3109.9 | 3063.1 | 3016.2 | 3088.1 | 3084.9 |
| 67.5° | 43485.8 | 16311.5 | 2323.1 | 2232.5 | 2360.5 | 2644.7 | 2941.3 | 2916.3 | 2891.4 | 3016.2 | 3010.0 |
| 70°   | 38630.4 | 13095.4 | 2110.7 | 2082.6 | 2223.2 | 2469.8 | 2760.2 | 2760.2 | 2744.6 | 2838.3 | 2816.4 |
| 72.5° | 29431.8 | 9286.0  | 1907.8 | 1923.4 | 2067.0 | 2279.4 | 2563.5 | 2585.4 | 2560.4 | 2607.2 | 2588.5 |
| 75°   | 15755.7 | 5314.3  | 1704.8 | 1748.5 | 1873.4 | 2085.8 | 2344.9 | 2366.8 | 2351.2 | 2348.1 | 2357.4 |
| 77.5° | 5236.3  | 2597.8  | 1492.5 | 1561.2 | 1670.5 | 1885.9 | 2117.0 | 2151.3 | 2113.9 | 2107.6 | 2104.5 |
| 80°   | 2332.4  | 1633.0  | 1258.3 | 1348.9 | 1445.7 | 1658.0 | 1876.6 | 1904.7 | 1864.1 | 1920.3 | 1848.5 |
| 82.5° | 1498.8  | 1074.1  | 1008.5 | 1108.5 | 1202.1 | 1430.1 | 1636.1 | 1642.4 | 1604.9 | 1864.1 | 1589.3 |
| 85°   | 727.5   | 665.1   | 758.7  | 849.3  | 930.5  | 1124.1 | 1355.1 | 1358.2 | 1264.6 | 1152.2 | 1111.6 |
| 87.5° | 362.2   | 387.2   | 505.8  | 587.0  | 627.6  | 771.2  | 986.7  | 967.9  | 927.4  | 843.1  | 777.5  |
| 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)