

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: P194184

Luminaire Tested: **GLEON-AF-06-LED-E1-5NQ-7060-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194184  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
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-E1-5NQ-7060-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29670 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G2

Input Watts (W): 249  
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

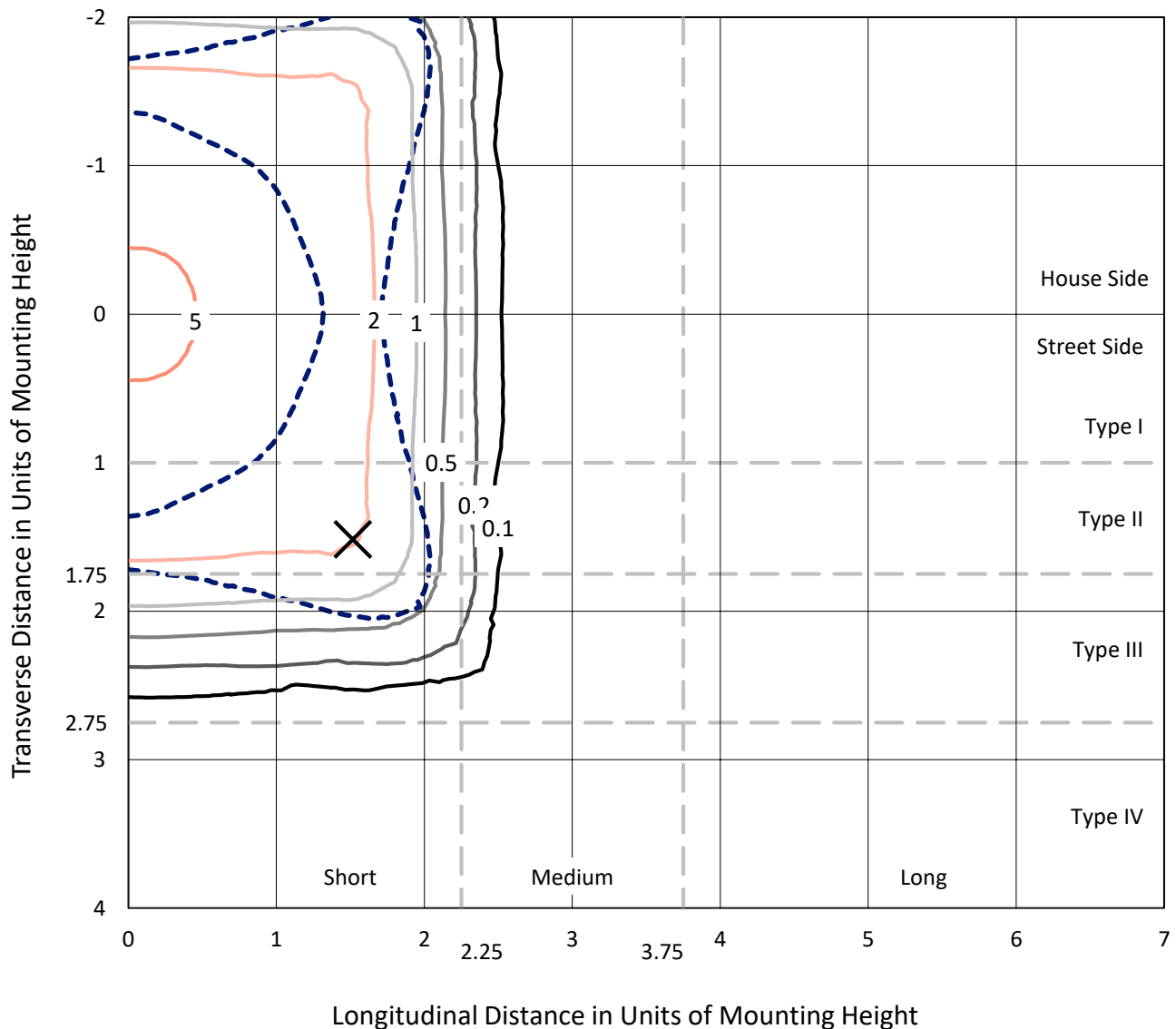


REPORT NUMBER: P194184

CATALOG NUMBER: GLEON-AF-06-LED-E1-5NQ-7060-800

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

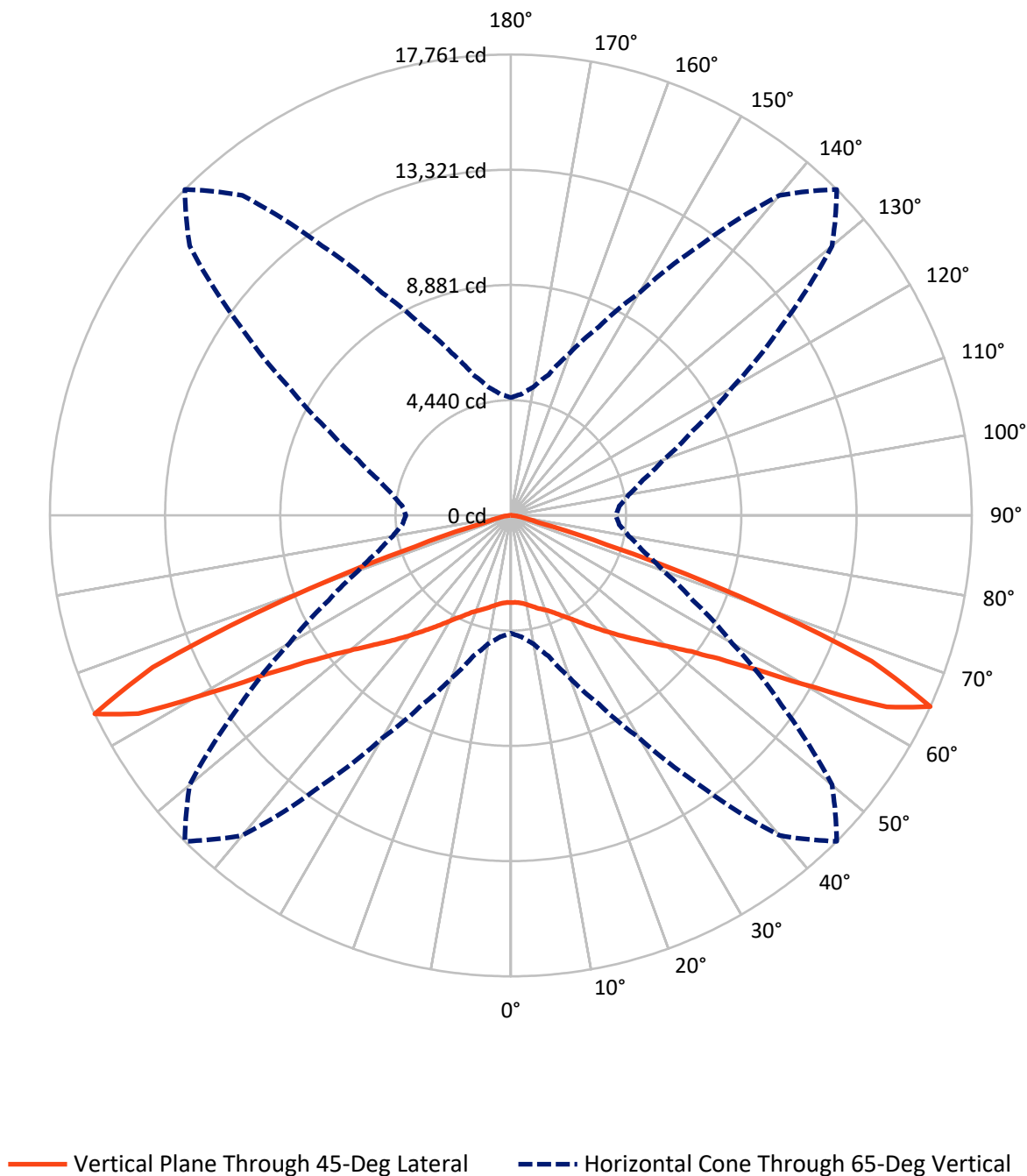


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P194184

CATALOG NUMBER: GLEON-AF-06-LED-E1-5NQ-7060-800

## Luminous Intensity Polar Plot



REPORT NUMBER: P194184

CATALOG NUMBER: GLEON-AF-06-LED-E1-5NQ-7060-800

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14835.0  | 0.0    | 14835.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14835.0  | 0.0    | 14835.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 29670.0  | 0.0    | 29670.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 327.2   | 1.1       |
| 10°-20°   | 1049.4  | 3.5       |
| 20°-30°   | 1962.3  | 6.6       |
| 30°-40°   | 3318.7  | 11.2      |
| 40°-50°   | 5426.5  | 18.3      |
| 50°-60°   | 8628.9  | 29.1      |
| 60°-70°   | 7800.0  | 26.3      |
| 70°-80°   | 987.1   | 3.3       |
| 80°-90°   | 169.8   | 0.6       |
| 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°    | 29670.0 | 100.0     |
| 0°-180°   | 29670.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P194184

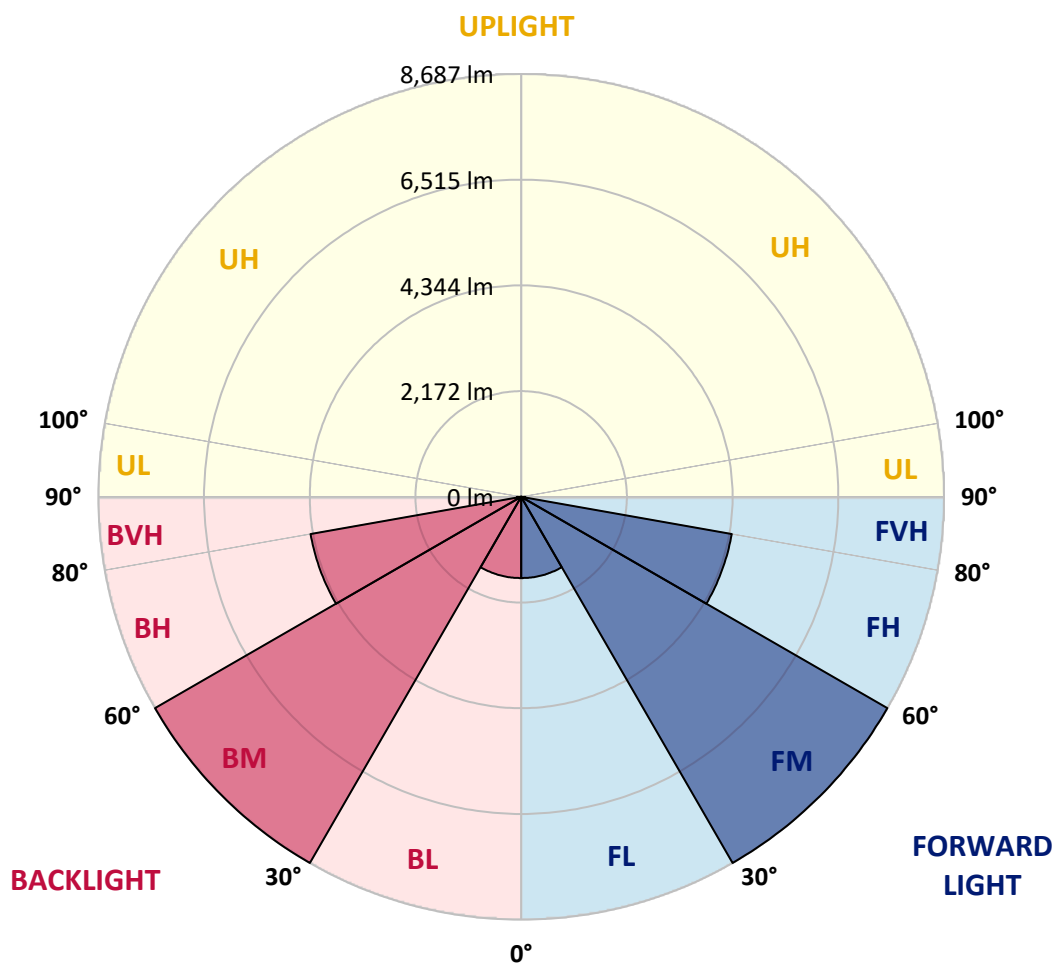
CATALOG NUMBER: GLEON-AF-06-LED-E1-5NQ-7060-800

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1669.5 | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 8687.1 | 29.3      |                         |      |         |
| FH   | (60°-80°)   | 4393.6 | 14.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 84.9   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1669.5 | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 8687.1 | 29.3      | B5                      |      |         |
| BH   | (60°-80°)   | 4393.6 | 14.8      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 84.9   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G2**

Type V Short



REPORT NUMBER: P194184

CATALOG NUMBER: GLEON-AF-06-LED-E1-5NQ-7060-800

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3357.2 | 3357.2 | 3357.2 | 3357.2 | 3357.2  | 3357.2  | 3357.2  | 3357.2  | 3357.2  | 3357.2  | 3357.2  |
| 2.5°  | 3360.0 | 3362.7 | 3365.5 | 3362.7 | 3365.5  | 3361.3  | 3358.6  | 3362.7  | 3358.6  | 3354.4  | 3357.2  |
| 5°    | 3389.1 | 3390.5 | 3390.5 | 3386.4 | 3390.5  | 3387.7  | 3383.6  | 3389.1  | 3385.0  | 3380.8  | 3383.6  |
| 7.5°  | 3437.8 | 3443.3 | 3439.2 | 3435.0 | 3437.8  | 3435.0  | 3432.2  | 3433.6  | 3432.2  | 3428.0  | 3429.4  |
| 10°   | 3503.1 | 3507.2 | 3504.5 | 3503.1 | 3505.9  | 3504.5  | 3501.7  | 3500.3  | 3501.7  | 3497.5  | 3497.5  |
| 12.5° | 3582.3 | 3580.9 | 3579.5 | 3580.9 | 3585.1  | 3585.1  | 3583.7  | 3585.1  | 3587.8  | 3589.2  | 3586.5  |
| 15°   | 3660.1 | 3662.9 | 3662.9 | 3662.9 | 3671.2  | 3678.2  | 3682.3  | 3685.1  | 3690.7  | 3692.1  | 3686.5  |
| 17.5° | 3757.4 | 3757.4 | 3756.0 | 3757.4 | 3765.7  | 3776.8  | 3781.0  | 3786.6  | 3792.1  | 3796.3  | 3789.3  |
| 20°   | 3865.8 | 3868.5 | 3868.5 | 3871.3 | 3882.4  | 3894.9  | 3894.9  | 3897.7  | 3894.9  | 3897.7  | 3893.5  |
| 22.5° | 3997.8 | 4006.1 | 4006.1 | 4007.5 | 4018.6  | 4033.9  | 4029.7  | 4033.9  | 4026.9  | 4032.5  | 4026.9  |
| 25°   | 4170.1 | 4182.6 | 4179.8 | 4179.8 | 4188.1  | 4197.9  | 4199.2  | 4207.6  | 4206.2  | 4213.1  | 4209.0  |
| 27.5° | 4364.6 | 4384.1 | 4389.6 | 4388.2 | 4393.8  | 4403.5  | 4406.3  | 4416.0  | 4410.5  | 4416.0  | 4413.2  |
| 30°   | 4598.1 | 4606.4 | 4617.5 | 4621.7 | 4628.6  | 4638.4  | 4638.4  | 4639.7  | 4632.8  | 4641.1  | 4645.3  |
| 32.5° | 4839.8 | 4855.1 | 4866.2 | 4891.3 | 4903.8  | 4910.7  | 4909.3  | 4912.1  | 4905.1  | 4916.3  | 4924.6  |
| 35°   | 5159.4 | 5170.6 | 5188.6 | 5208.1 | 5224.7  | 5223.4  | 5219.2  | 5220.6  | 5220.6  | 5230.3  | 5238.6  |
| 37.5° | 5544.3 | 5547.1 | 5570.7 | 5598.5 | 5606.9  | 5598.5  | 5573.5  | 5568.0  | 5555.5  | 5568.0  | 5581.9  |
| 40°   | 5951.5 | 5961.2 | 6008.5 | 6026.5 | 6030.7  | 6015.4  | 5979.3  | 5958.4  | 5930.6  | 5945.9  | 5965.4  |
| 42.5° | 6378.1 | 6397.5 | 6440.6 | 6472.6 | 6486.5  | 6476.7  | 6426.7  | 6394.8  | 6358.6  | 6367.0  | 6386.4  |
| 45°   | 6850.5 | 6874.2 | 6935.3 | 6965.9 | 6992.3  | 6977.0  | 6928.3  | 6879.7  | 6822.7  | 6826.9  | 6857.5  |
| 47.5° | 7378.6 | 7402.2 | 7481.4 | 7532.8 | 7546.7  | 7543.9  | 7489.7  | 7423.0  | 7345.2  | 7342.4  | 7368.8  |
| 50°   | 7970.5 | 7994.1 | 8092.8 | 8172.0 | 8212.3  | 8208.1  | 8144.2  | 8049.7  | 7955.2  | 7956.6  | 7990.0  |
| 52.5° | 8548.6 | 8577.8 | 8680.6 | 8816.8 | 8896.0  | 8952.9  | 8914.0  | 8825.1  | 8709.8  | 8712.5  | 8743.1  |
| 55°   | 9090.5 | 9139.1 | 9257.2 | 9442.1 | 9589.4  | 9749.2  | 9795.0  | 9792.2  | 9722.7  | 9742.2  | 9772.8  |
| 57.5° | 9353.1 | 9425.4 | 9607.4 | 9899.2 | 10199.4 | 10524.5 | 10799.7 | 11005.3 | 11092.9 | 11224.9 | 11194.3 |
| 60°   | 8855.7 | 8971.0 | 9239.2 | 9668.6 | 10261.9 | 10940.0 | 11666.7 | 12376.8 | 12982.7 | 13439.8 | 13177.2 |
| 62.5° | 7250.7 | 7400.8 | 7726.0 | 8276.2 | 9173.9  | 10259.1 | 11650.1 | 13328.7 | 15157.3 | 16260.6 | 15472.7 |
| 65°   | 4536.9 | 4692.5 | 5023.3 | 5612.4 | 6662.9  | 8012.2  | 9899.2  | 12681.1 | 16098.0 | 17761.4 | 16157.8 |
| 67.5° | 1768.9 | 1853.7 | 2032.9 | 2409.5 | 3198.8  | 4399.3  | 6293.3  | 9450.4  | 13537.1 | 14994.7 | 13285.6 |
| 70°   | 886.5  | 894.9  | 928.2  | 997.7  | 1167.2  | 1516.0  | 2306.7  | 4381.3  | 7763.5  | 9376.7  | 7484.2  |
| 72.5° | 640.6  | 642.0  | 658.7  | 689.2  | 743.4   | 821.2   | 971.3   | 1340.9  | 2524.8  | 3858.8  | 2366.4  |
| 75°   | 490.5  | 496.1  | 505.8  | 522.5  | 551.7   | 590.6   | 644.8   | 772.6   | 957.4   | 1110.3  | 933.8   |
| 77.5° | 378.0  | 389.1  | 396.0  | 411.3  | 429.4   | 455.8   | 471.1   | 519.7   | 604.5   | 636.4   | 626.7   |
| 80°   | 287.6  | 297.4  | 312.7  | 325.2  | 337.7   | 350.2   | 344.6   | 366.8   | 411.3   | 437.7   | 423.8   |
| 82.5° | 183.4  | 194.5  | 239.0  | 250.1  | 255.7   | 264.0   | 254.3   | 255.7   | 275.1   | 291.8   | 275.1   |
| 85°   | 118.1  | 125.1  | 151.5  | 165.4  | 166.7   | 172.3   | 168.1   | 158.4   | 158.4   | 144.5   | 162.6   |
| 87.5° | 54.2   | 55.6   | 68.1   | 80.6   | 83.4    | 75.0    | 73.6    | 70.9    | 57.0    | 54.2    | 58.4    |
| 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: P194184

CATALOG NUMBER: GLEON-AF-06-LED-E1-5NQ-7060-800

**CANDELA DISTRIBUTION (continued):**

|       | 55°     | 60°     | 65°     | 70°     | 75°     | 80°    | 85°    | 90°    |
|-------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 3357.2  | 3357.2  | 3357.2  | 3357.2  | 3357.2  | 3357.2 | 3357.2 | 3357.2 |
| 2.5°  | 3355.8  | 3358.6  | 3360.0  | 3364.1  | 3365.5  | 3365.5 | 3366.9 | 3369.7 |
| 5°    | 3382.2  | 3386.4  | 3387.7  | 3393.3  | 3394.7  | 3393.3 | 3396.1 | 3397.5 |
| 7.5°  | 3429.4  | 3436.4  | 3439.2  | 3444.7  | 3440.5  | 3446.1 | 3447.5 | 3447.5 |
| 10°   | 3498.9  | 3505.9  | 3507.2  | 3512.8  | 3510.0  | 3512.8 | 3512.8 | 3510.0 |
| 12.5° | 3590.6  | 3592.0  | 3587.8  | 3592.0  | 3586.5  | 3589.2 | 3585.1 | 3582.3 |
| 15°   | 3692.1  | 3687.9  | 3678.2  | 3678.2  | 3669.8  | 3671.2 | 3669.8 | 3668.4 |
| 17.5° | 3790.7  | 3782.4  | 3775.4  | 3772.7  | 3765.7  | 3764.3 | 3760.1 | 3760.1 |
| 20°   | 3899.1  | 3894.9  | 3890.8  | 3885.2  | 3878.3  | 3871.3 | 3869.9 | 3872.7 |
| 22.5° | 4029.7  | 4028.3  | 4028.3  | 4025.6  | 4015.8  | 4008.9 | 4004.7 | 4004.7 |
| 25°   | 4204.8  | 4192.3  | 4192.3  | 4190.9  | 4186.7  | 4182.6 | 4174.2 | 4178.4 |
| 27.5° | 4402.1  | 4395.2  | 4400.7  | 4399.3  | 4395.2  | 4395.2 | 4389.6 | 4389.6 |
| 30°   | 4645.3  | 4642.5  | 4650.9  | 4643.9  | 4630.0  | 4628.6 | 4623.1 | 4616.1 |
| 32.5° | 4926.0  | 4923.2  | 4935.7  | 4927.4  | 4905.1  | 4892.6 | 4881.5 | 4876.0 |
| 35°   | 5238.6  | 5240.0  | 5255.3  | 5249.8  | 5224.7  | 5216.4 | 5197.0 | 5194.2 |
| 37.5° | 5580.5  | 5602.7  | 5629.1  | 5634.7  | 5613.8  | 5608.3 | 5587.4 | 5576.3 |
| 40°   | 5982.1  | 6011.2  | 6051.5  | 6061.3  | 6039.0  | 6034.9 | 6005.7 | 5990.4 |
| 42.5° | 6410.0  | 6460.1  | 6510.1  | 6518.4  | 6496.2  | 6474.0 | 6446.2 | 6435.1 |
| 45°   | 6888.0  | 6947.8  | 7013.1  | 7029.8  | 6996.4  | 6970.0 | 6933.9 | 6933.9 |
| 47.5° | 7424.4  | 7499.5  | 7573.1  | 7619.0  | 7588.4  | 7560.6 | 7517.5 | 7489.7 |
| 50°   | 8058.1  | 8160.9  | 8256.8  | 8304.0  | 8255.4  | 8202.6 | 8127.5 | 8102.5 |
| 52.5° | 8852.9  | 8964.1  | 9047.4  | 9022.4  | 8947.4  | 8873.7 | 8791.7 | 8758.4 |
| 55°   | 9867.3  | 9904.8  | 9904.8  | 9810.3  | 9660.2  | 9536.5 | 9407.3 | 9364.2 |
| 57.5° | 11135.9 | 10991.4 | 10769.1 | 10487.0 | 10132.7 | 9824.2 | 9615.8 | 9517.1 |
| 60°   | 12626.9 | 11932.1 | 11147.0 | 10375.8 | 9742.2  | 9219.7 | 8909.9 | 8768.1 |
| 62.5° | 13620.5 | 11802.9 | 10229.9 | 8991.8  | 8080.3  | 7450.8 | 7022.8 | 6856.1 |
| 65°   | 12729.8 | 9843.6  | 7737.1  | 6255.8  | 5262.3  | 4621.7 | 4197.9 | 4042.2 |
| 67.5° | 9323.9  | 6168.3  | 4120.0  | 2952.8  | 2163.5  | 1725.8 | 1552.1 | 1479.9 |
| 70°   | 4185.4  | 2171.9  | 1331.2  | 1039.4  | 896.3   | 822.6  | 790.7  | 779.5  |
| 72.5° | 1261.7  | 912.9   | 769.8   | 694.8   | 637.8   | 601.7  | 575.3  | 572.5  |
| 75°   | 761.5   | 633.6   | 562.8   | 518.3   | 482.2   | 453.0  | 439.1  | 434.9  |
| 77.5° | 532.2   | 465.5   | 432.2   | 400.2   | 372.4   | 350.2  | 337.7  | 327.9  |
| 80°   | 373.8   | 341.8   | 326.5   | 308.5   | 290.4   | 269.6  | 251.5  | 243.2  |
| 82.5° | 250.1   | 243.2   | 243.2   | 232.1   | 216.8   | 197.3  | 161.2  | 152.9  |
| 85°   | 161.2   | 159.8   | 162.6   | 158.4   | 147.3   | 126.4  | 104.2  | 98.7   |
| 87.5° | 75.0    | 76.4    | 84.8    | 83.4    | 80.6    | 66.7   | 52.8   | 50.0   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    |

(END OF REPORT)