

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: P193686

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-8030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193686  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-08-LED-E1-SL3-8030-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36482 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 511  
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

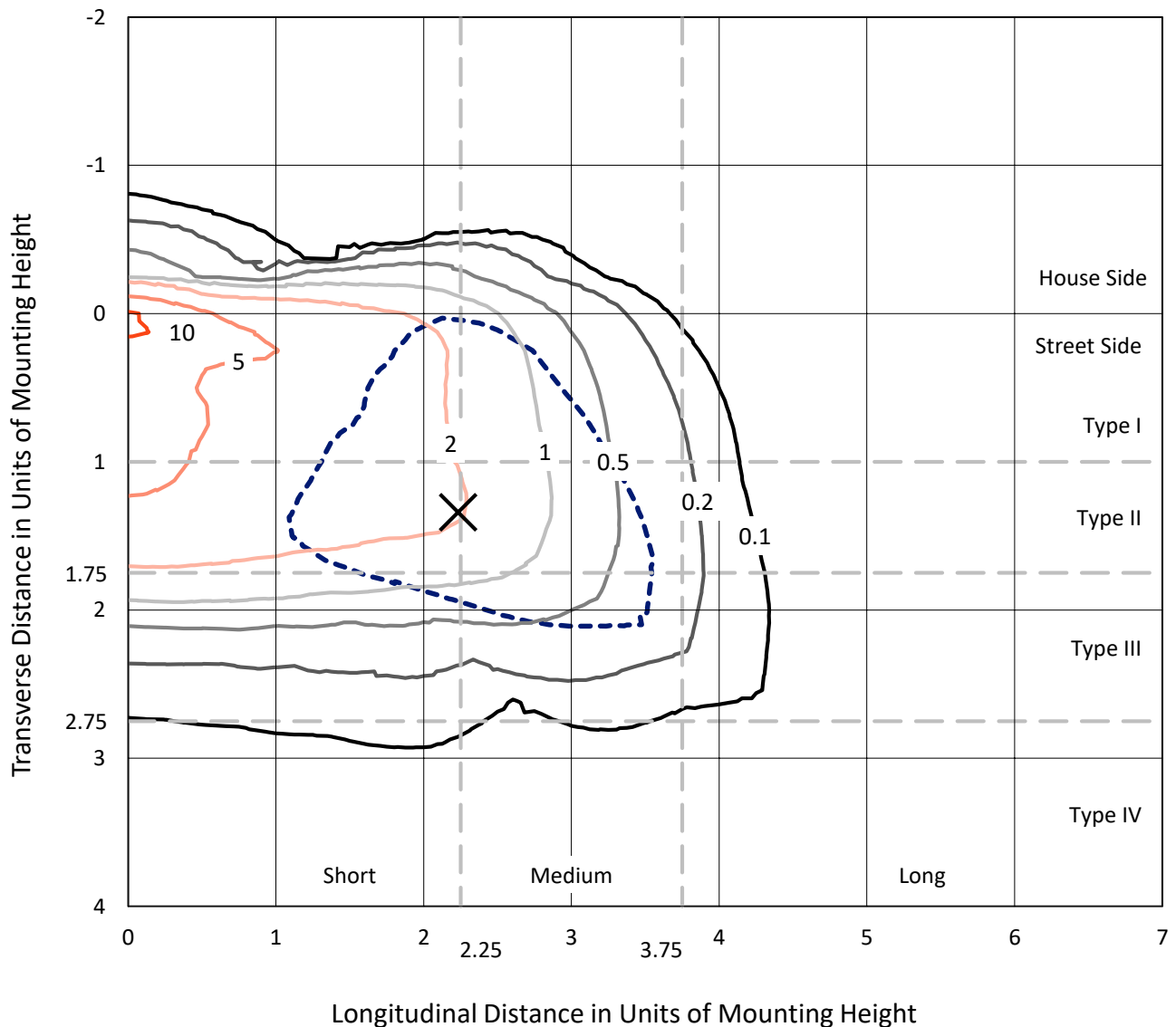


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

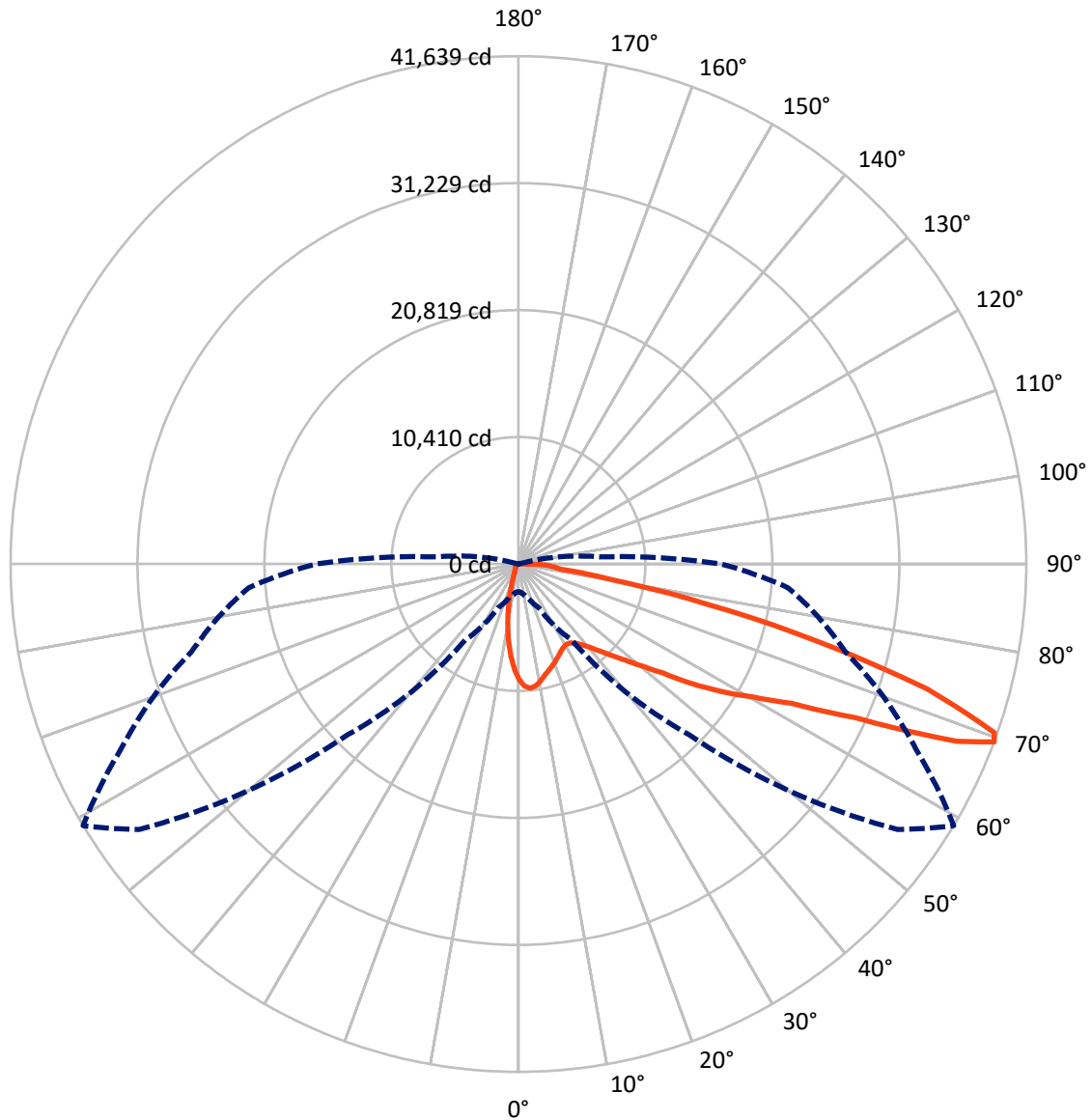


Based on 30 foot mounting height. Maximum calculated value = 10.6 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-1200-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2971.0   | 0.0    | 2971.0  |
|                    | % Fixture | 8.1      | 0.0    | 8.1     |
| <b>Street Side</b> | Lumens    | 33511.0  | 0.0    | 33511.0 |
|                    | % Fixture | 91.9     | 0.0    | 91.9    |
| <b>Total</b>       | Lumens    | 36482.0  | 0.0    | 36482.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 770.8   | 2.1       |
| 10°-20°   | 1592.6  | 4.4       |
| 20°-30°   | 2143.1  | 5.9       |
| 30°-40°   | 3111.6  | 8.5       |
| 40°-50°   | 5181.1  | 14.2      |
| 50°-60°   | 8082.4  | 22.2      |
| 60°-70°   | 10001.4 | 27.4      |
| 70°-80°   | 5068.6  | 13.9      |
| 80°-90°   | 530.4   | 1.5       |
| 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°    | 36482.0 | 100.0     |
| 0°-180°   | 36482.0 | 100.0     |



REPORT NUMBER: P193686

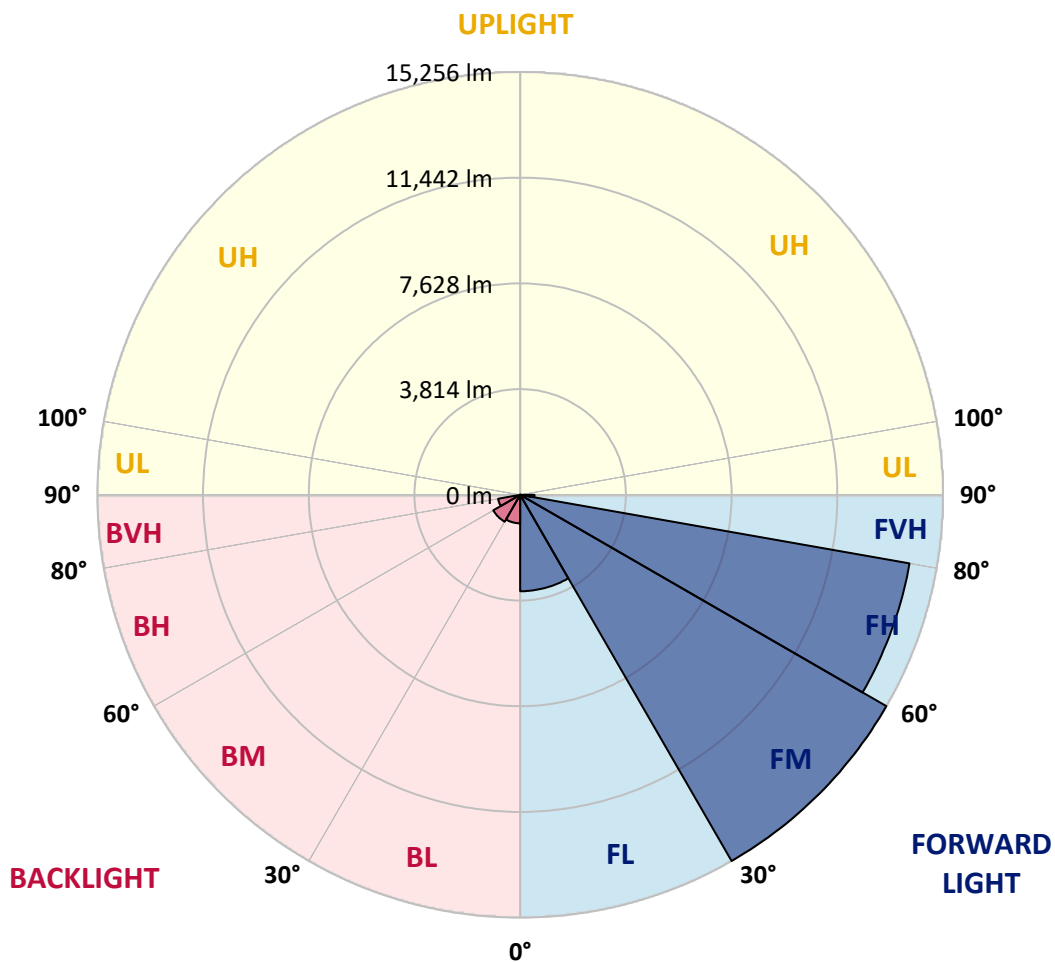
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3478.2  | 9.5       |                         |      |         |
| FM   | (30°-60°)   | 15255.7 | 41.8      |                         |      |         |
| FH   | (60°-80°)   | 14263.1 | 39.1      |                         |      | G5      |
| FVH  | (80°-90°)   | 514.0   | 1.4       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1028.3  | 2.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1119.5  | 3.1       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 806.8   | 2.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 16.3    | 0.0       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type III Short





REPORT NUMBER: P193686

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-1200-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9495.8  | 9495.8  | 9495.8  | 9495.8  | 9495.8  | 9495.8  | 9495.8  | 9495.8  | 9495.8  | 9495.8  | 9495.8  |
| 2.5°  | 10407.6 | 10403.5 | 10358.1 | 10337.4 | 10300.3 | 10221.9 | 10100.2 | 10036.3 | 9933.1  | 9753.6  | 9512.3  |
| 5°    | 10312.7 | 10362.2 | 10389.0 | 10391.1 | 10417.9 | 10389.0 | 10279.7 | 10226.0 | 10083.7 | 9794.9  | 9361.7  |
| 7.5°  | 9669.0  | 9687.6  | 9763.9  | 9830.0  | 9957.9  | 10079.6 | 10118.8 | 10096.1 | 10011.5 | 9702.1  | 9126.5  |
| 10°   | 8980.0  | 8998.6  | 9089.4  | 9176.0  | 9349.3  | 9537.0  | 9735.1  | 9776.3  | 9811.4  | 9570.0  | 8899.6  |
| 12.5° | 8385.9  | 8404.5  | 8497.3  | 8610.8  | 8812.9  | 9044.0  | 9351.4  | 9419.4  | 9574.2  | 9444.2  | 8718.0  |
| 15°   | 7874.3  | 7882.5  | 7973.3  | 8113.6  | 8354.9  | 8652.0  | 9000.7  | 9110.0  | 9347.2  | 9355.5  | 8559.2  |
| 17.5° | 7439.0  | 7459.6  | 7515.3  | 7649.4  | 7913.5  | 8280.7  | 8687.1  | 8843.9  | 9122.4  | 9281.2  | 8404.5  |
| 20°   | 7172.9  | 7193.5  | 7191.4  | 7265.7  | 7503.0  | 7894.9  | 8373.5  | 8561.2  | 8899.6  | 9204.9  | 8266.2  |
| 22.5° | 7121.3  | 7121.3  | 7067.7  | 7057.4  | 7197.6  | 7525.6  | 8047.6  | 8276.6  | 8699.5  | 9171.9  | 8169.3  |
| 25°   | 7304.9  | 7296.7  | 7162.6  | 7053.2  | 7059.4  | 7255.4  | 7731.9  | 8004.2  | 8530.3  | 9194.6  | 8117.7  |
| 27.5° | 7692.7  | 7682.4  | 7513.3  | 7304.9  | 7137.8  | 7135.7  | 7492.6  | 7785.6  | 8396.2  | 9301.8  | 8138.3  |
| 30°   | 8229.1  | 8225.0  | 8041.4  | 7779.4  | 7476.1  | 7197.6  | 7410.1  | 7676.2  | 8309.6  | 9495.8  | 8185.8  |
| 32.5° | 8815.0  | 8808.8  | 8670.6  | 8394.1  | 8010.4  | 7476.1  | 7496.8  | 7719.6  | 8334.3  | 9753.6  | 8301.3  |
| 35°   | 9435.9  | 9425.6  | 9365.8  | 9124.4  | 8701.5  | 7989.8  | 7781.4  | 7954.7  | 8491.1  | 10139.4 | 8528.2  |
| 37.5° | 10108.5 | 10118.8 | 10162.1 | 9931.0  | 9487.5  | 8709.8  | 8258.0  | 8375.6  | 8806.7  | 10663.4 | 8897.5  |
| 40°   | 11100.7 | 11098.7 | 11113.1 | 10809.9 | 10382.8 | 9590.7  | 8924.3  | 8961.5  | 9334.9  | 11358.6 | 9458.6  |
| 42.5° | 12901.7 | 12775.9 | 12394.2 | 11775.3 | 11346.2 | 10597.4 | 9763.9  | 9724.7  | 9980.6  | 12218.9 | 10244.6 |
| 45°   | 15321.5 | 15053.3 | 14063.1 | 12876.9 | 12328.2 | 11732.0 | 10797.5 | 10671.6 | 10834.6 | 13252.4 | 11214.2 |
| 47.5° | 17403.0 | 17124.6 | 15723.8 | 14023.9 | 13370.0 | 12808.9 | 12008.4 | 11781.5 | 11835.1 | 14409.7 | 12443.7 |
| 50°   | 18110.6 | 17974.5 | 16751.2 | 15022.4 | 14378.8 | 14164.2 | 13413.3 | 13136.9 | 13060.5 | 15748.6 | 13869.2 |
| 52.5° | 17865.1 | 17854.8 | 17040.0 | 15670.2 | 15303.0 | 15567.0 | 15181.3 | 14861.5 | 14580.9 | 17159.6 | 15319.5 |
| 55°   | 17471.1 | 17522.7 | 17157.6 | 16237.5 | 16225.1 | 16848.1 | 17599.0 | 17332.9 | 16520.1 | 18692.4 | 16569.6 |
| 57.5° | 16384.0 | 16604.7 | 17091.5 | 17310.2 | 17817.7 | 18455.2 | 19612.5 | 19769.3 | 18807.9 | 19866.2 | 17607.3 |
| 60°   | 13293.7 | 13778.4 | 15371.0 | 17464.9 | 19870.3 | 21458.8 | 22042.6 | 22176.7 | 20685.2 | 20842.0 | 19008.0 |
| 62.5° | 9435.9  | 9931.0  | 11950.7 | 15492.8 | 19901.3 | 25405.2 | 25663.1 | 25137.0 | 22752.3 | 22288.1 | 21423.7 |
| 65°   | 5008.8  | 5390.5  | 7040.8  | 11183.3 | 17254.5 | 26321.2 | 31994.3 | 30426.5 | 26399.6 | 25132.9 | 24545.0 |
| 67.5° | 2562.2  | 2677.7  | 3333.7  | 5473.0  | 11862.0 | 23379.4 | 37669.5 | 38773.2 | 32685.4 | 27955.0 | 24394.4 |
| 69°   | 2267.2  | 2335.3  | 2770.5  | 3956.7  | 7595.8  | 19802.3 | 37945.9 | 41638.6 | 35975.8 | 27719.9 | 22168.5 |
| 70°   | 2195.0  | 2254.8  | 2650.9  | 3581.3  | 5937.2  | 16606.7 | 36887.6 | 41386.9 | 36817.5 | 26824.5 | 20505.7 |
| 72.5° | 1862.8  | 1914.4  | 2360.0  | 3164.6  | 4825.2  | 8243.5  | 29964.4 | 35070.2 | 33038.1 | 22345.9 | 14842.9 |
| 75°   | 1246.0  | 1415.2  | 2265.1  | 2966.5  | 4489.0  | 4682.9  | 19754.8 | 25343.3 | 23542.4 | 15071.9 | 7731.9  |
| 77.5° | 299.1   | 321.8   | 639.5   | 2360.0  | 4105.3  | 4121.8  | 10160.0 | 15754.8 | 12850.1 | 5371.9  | 1827.8  |
| 80°   | 160.9   | 154.7   | 179.5   | 468.3   | 3822.6  | 3868.0  | 4573.6  | 7647.4  | 4588.0  | 891.2   | 602.4   |
| 82.5° | 113.5   | 107.3   | 115.5   | 196.0   | 1202.7  | 3523.5  | 3309.0  | 3461.6  | 1902.0  | 342.4   | 270.2   |
| 85°   | 41.3    | 39.2    | 64.0    | 177.4   | 377.5   | 2025.8  | 3399.7  | 2855.1  | 1541.0  | 156.8   | 198.0   |
| 87.5° | 14.4    | 12.4    | 24.8    | 97.0    | 115.5   | 862.3   | 2098.0  | 2157.8  | 606.5   | 94.9    | 92.8    |
| 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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CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-1200-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9495.8  | 9495.8 | 9495.8 | 9495.8 | 9495.8 | 9495.8 | 9495.8 | 9495.8 | 9495.8 | 9495.8 | 9495.8 |
| 2.5°  | 9411.2  | 9283.3 | 9048.1 | 8806.7 | 8583.9 | 8315.8 | 8181.7 | 8049.6 | 7993.9 | 7973.3 | 7876.3 |
| 5°    | 9138.9  | 8922.3 | 8423.0 | 7921.7 | 7459.6 | 6968.6 | 6644.8 | 6384.8 | 6232.2 | 6157.9 | 6040.3 |
| 7.5°  | 8790.2  | 8435.4 | 7678.3 | 6904.7 | 6184.7 | 5475.1 | 4949.0 | 4544.7 | 4266.2 | 4132.1 | 4010.4 |
| 10°   | 8451.9  | 7979.5 | 6902.6 | 5848.5 | 4870.6 | 3929.9 | 3203.8 | 2677.7 | 2341.4 | 2186.7 | 2087.7 |
| 12.5° | 8148.7  | 7536.0 | 6153.8 | 4819.1 | 3591.6 | 2490.0 | 1751.4 | 1332.7 | 1124.3 | 1052.1 | 1017.0 |
| 15°   | 7878.4  | 7127.5 | 5446.2 | 3841.2 | 2432.2 | 1423.4 | 957.2  | 814.9  | 781.9  | 781.9  | 777.7  |
| 17.5° | 7622.6  | 6727.3 | 4763.4 | 2923.2 | 1526.6 | 870.6  | 728.2  | 709.7  | 709.7  | 717.9  | 717.9  |
| 20°   | 7377.1  | 6345.6 | 4103.2 | 2098.0 | 961.3  | 691.1  | 658.1  | 654.0  | 658.1  | 668.4  | 668.4  |
| 22.5° | 7166.7  | 5999.1 | 3486.4 | 1439.9 | 713.8  | 623.0  | 606.5  | 600.3  | 602.4  | 608.6  | 612.7  |
| 25°   | 7009.9  | 5706.1 | 2904.6 | 975.8  | 614.8  | 567.3  | 548.7  | 538.4  | 530.2  | 530.2  | 534.3  |
| 27.5° | 6910.9  | 5458.6 | 2341.4 | 709.7  | 552.9  | 515.7  | 486.9  | 470.4  | 451.8  | 441.5  | 445.6  |
| 30°   | 6838.7  | 5223.4 | 1813.3 | 579.7  | 495.1  | 458.0  | 420.8  | 394.0  | 367.2  | 354.8  | 359.0  |
| 32.5° | 6811.9  | 5033.6 | 1355.4 | 511.6  | 443.5  | 402.3  | 356.9  | 321.8  | 292.9  | 282.6  | 284.7  |
| 35°   | 6884.1  | 4883.0 | 992.3  | 462.1  | 402.3  | 350.7  | 299.1  | 259.9  | 237.2  | 231.1  | 233.1  |
| 37.5° | 7073.9  | 4802.5 | 742.7  | 420.8  | 365.1  | 307.4  | 249.6  | 212.5  | 198.0  | 198.0  | 200.1  |
| 40°   | 7432.8  | 4800.5 | 596.2  | 392.0  | 332.1  | 266.1  | 206.3  | 179.5  | 171.2  | 175.4  | 177.4  |
| 42.5° | 7956.8  | 4909.8 | 519.9  | 365.1  | 303.3  | 226.9  | 171.2  | 152.7  | 150.6  | 154.7  | 156.8  |
| 45°   | 8672.6  | 5109.9 | 478.6  | 342.4  | 272.3  | 189.8  | 144.4  | 132.0  | 132.0  | 138.2  | 140.3  |
| 47.5° | 9549.4  | 5402.9 | 443.5  | 319.8  | 241.4  | 158.8  | 123.8  | 115.5  | 117.6  | 123.8  | 125.8  |
| 50°   | 10605.6 | 5772.1 | 408.5  | 295.0  | 218.7  | 132.0  | 107.3  | 101.1  | 103.1  | 111.4  | 113.5  |
| 52.5° | 11808.3 | 6269.3 | 379.6  | 272.3  | 189.8  | 109.3  | 90.8   | 86.6   | 90.8   | 99.0   | 101.1  |
| 55°   | 12839.8 | 6714.9 | 344.5  | 253.7  | 152.7  | 90.8   | 74.3   | 74.3   | 78.4   | 88.7   | 90.8   |
| 57.5° | 13832.1 | 7181.1 | 313.6  | 218.7  | 119.7  | 72.2   | 61.9   | 64.0   | 70.1   | 80.5   | 82.5   |
| 60°   | 15288.5 | 7971.2 | 276.4  | 183.6  | 90.8   | 57.8   | 51.6   | 53.6   | 61.9   | 72.2   | 74.3   |
| 62.5° | 17762.0 | 9173.9 | 239.3  | 152.7  | 70.1   | 45.4   | 41.3   | 45.4   | 55.7   | 68.1   | 70.1   |
| 65°   | 19994.1 | 9662.9 | 196.0  | 127.9  | 53.6   | 35.1   | 35.1   | 41.3   | 53.6   | 66.0   | 68.1   |
| 67.5° | 18750.2 | 8134.2 | 152.7  | 101.1  | 41.3   | 26.8   | 28.9   | 39.2   | 51.6   | 66.0   | 68.1   |
| 69°   | 16582.0 | 6651.0 | 130.0  | 80.5   | 35.1   | 24.8   | 26.8   | 39.2   | 51.6   | 64.0   | 66.0   |
| 70°   | 14892.4 | 5615.4 | 115.5  | 68.1   | 30.9   | 24.8   | 26.8   | 37.1   | 51.6   | 64.0   | 66.0   |
| 72.5° | 9974.4  | 3032.5 | 92.8   | 49.5   | 28.9   | 22.7   | 22.7   | 37.1   | 49.5   | 61.9   | 64.0   |
| 75°   | 4286.8  | 837.6  | 74.3   | 35.1   | 24.8   | 20.6   | 20.6   | 35.1   | 47.4   | 59.8   | 64.0   |
| 77.5° | 783.9   | 212.5  | 59.8   | 30.9   | 24.8   | 20.6   | 18.6   | 33.0   | 45.4   | 57.8   | 59.8   |
| 80°   | 311.5   | 105.2  | 47.4   | 26.8   | 22.7   | 18.6   | 16.5   | 30.9   | 43.3   | 55.7   | 57.8   |
| 82.5° | 187.7   | 59.8   | 39.2   | 24.8   | 22.7   | 16.5   | 14.4   | 26.8   | 41.3   | 53.6   | 55.7   |
| 85°   | 152.7   | 41.3   | 30.9   | 24.8   | 20.6   | 16.5   | 12.4   | 24.8   | 37.1   | 51.6   | 53.6   |
| 87.5° | 74.3    | 28.9   | 28.9   | 22.7   | 20.6   | 16.5   | 12.4   | 22.7   | 35.1   | 49.5   | 51.6   |
| 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)