

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: P191246

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191246
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-08-LED-E1-SL4-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA 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: 37464.5 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

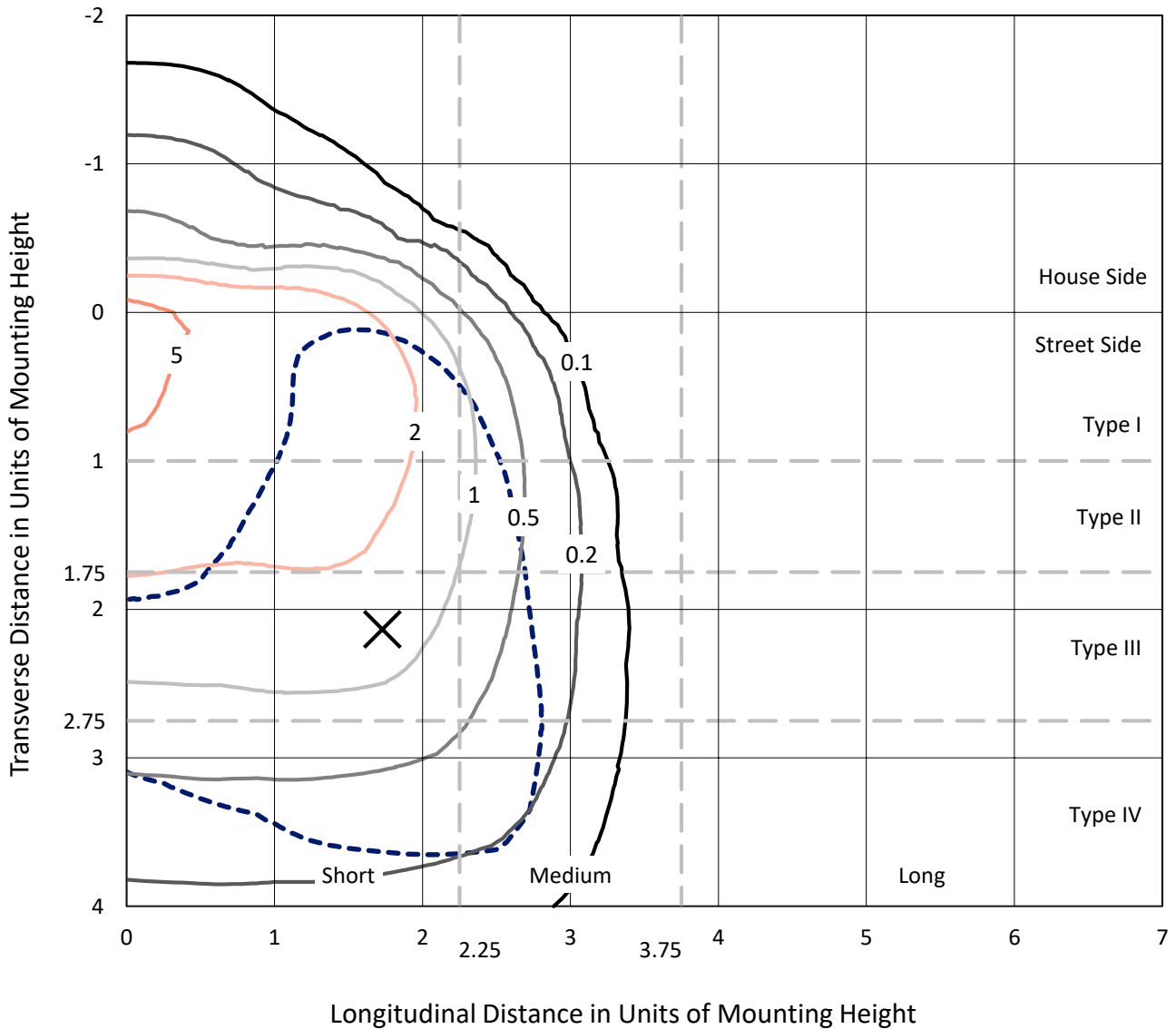
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

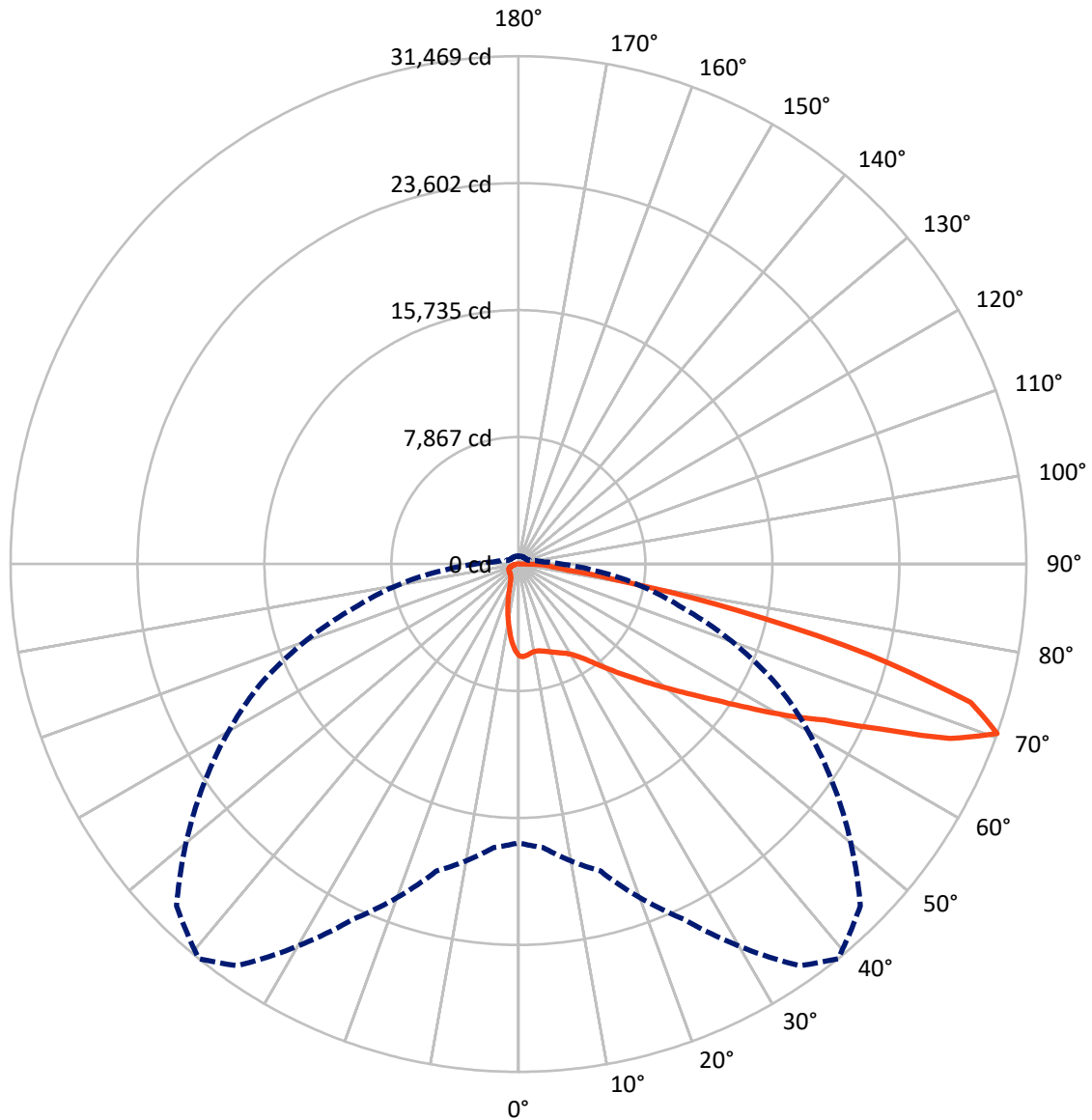
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4261.0 | 0.0 | 4261.0 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 33203.6 | 0.0 | 33203.6 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 37464.5 | 0.0 | 37464.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 488.1 | 1.3 |
| 10°-20° | 1220.1 | 3.3 |
| 20°-30° | 1899.7 | 5.1 |
| 30°-40° | 2959.4 | 7.9 |
| 40°-50° | 4968.4 | 13.3 |
| 50°-60° | 7892.7 | 21.1 |
| 60°-70° | 10527.9 | 28.1 |
| 70°-80° | 6357.6 | 17.0 |
| 80°-90° | 1150.6 | 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° | 37464.5 | 100.0 |
| 0°-180° | 37464.5 | 100.0 |



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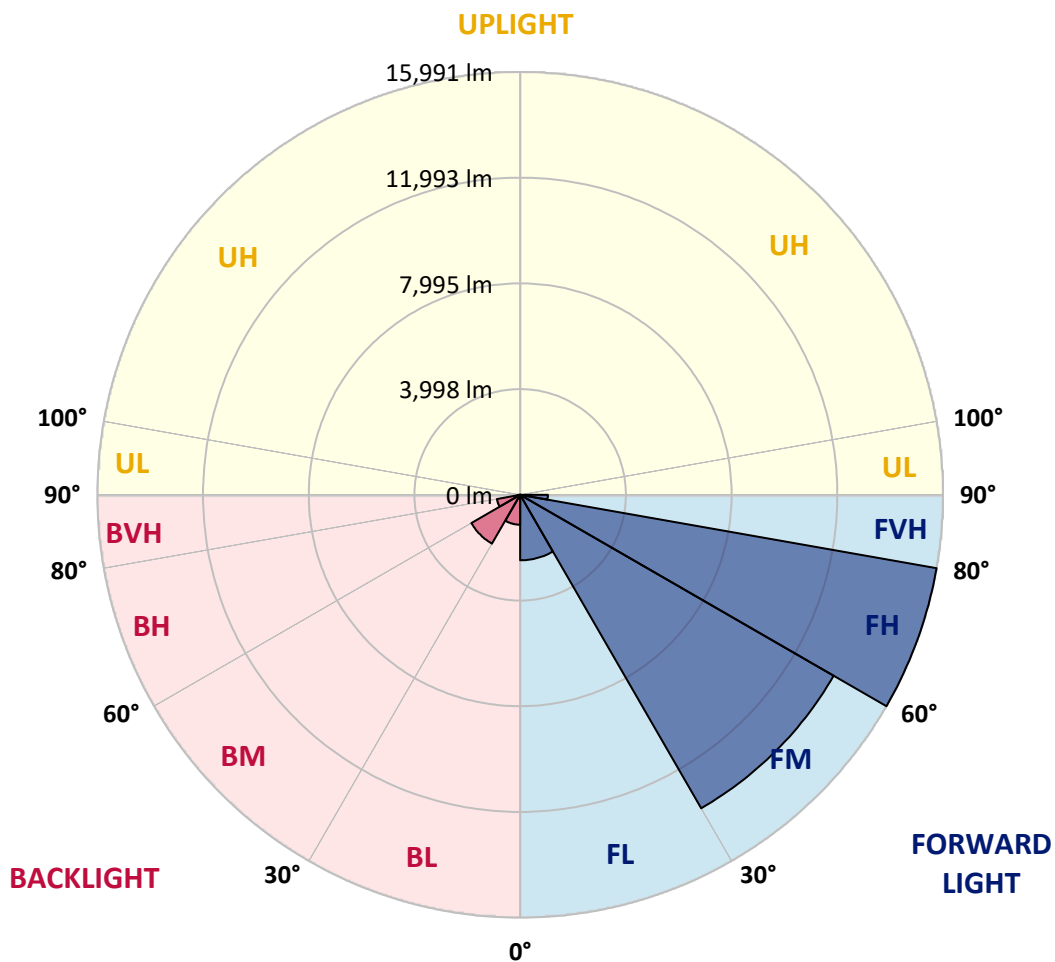
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2477.6 | 6.6 | | | |
| FM | (30°-60°) | 13688.1 | 36.5 | | | |
| FH | (60°-80°) | 15991.0 | 42.7 | | | G5 |
| FVH | (80°-90°) | 1046.9 | 2.8 | | | G5 |
| BL | (0°-30°) | 1130.4 | 3.0 | B3/2500 | | |
| BM | (30°-60°) | 2132.4 | 5.7 | B2/2500 | | |
| BH | (60°-80°) | 894.6 | 2.4 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 103.7 | 0.3 | | | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5687.7 | 5687.7 | 5687.7 | 5687.7 | 5687.7 | 5687.7 | 5687.7 | 5687.7 | 5687.7 | 5687.7 | 5687.7 |
| 2.5° | 5798.2 | 5796.2 | 5781.0 | 5769.6 | 5760.0 | 5756.2 | 5763.9 | 5735.3 | 5710.5 | 5680.0 | 5647.7 |
| 5° | 5754.4 | 5752.5 | 5727.7 | 5704.8 | 5682.0 | 5674.4 | 5672.5 | 5621.0 | 5590.5 | 5544.8 | 5483.9 |
| 7.5° | 5706.7 | 5697.2 | 5664.8 | 5626.7 | 5586.7 | 5567.7 | 5548.7 | 5482.0 | 5447.7 | 5402.0 | 5331.5 |
| 10° | 5657.2 | 5645.8 | 5615.3 | 5577.2 | 5539.2 | 5510.5 | 5478.2 | 5413.5 | 5377.2 | 5343.0 | 5261.0 |
| 12.5° | 5605.8 | 5596.3 | 5588.7 | 5571.5 | 5544.8 | 5520.0 | 5495.3 | 5440.1 | 5402.0 | 5362.0 | 5266.8 |
| 15° | 5598.2 | 5594.4 | 5611.5 | 5623.0 | 5607.7 | 5592.5 | 5565.8 | 5518.2 | 5478.2 | 5438.2 | 5314.3 |
| 17.5° | 5659.2 | 5657.2 | 5701.0 | 5731.5 | 5723.9 | 5697.2 | 5661.0 | 5607.7 | 5575.3 | 5541.0 | 5386.8 |
| 20° | 5792.5 | 5802.0 | 5855.4 | 5895.4 | 5857.2 | 5819.2 | 5760.0 | 5685.8 | 5668.7 | 5653.4 | 5461.0 |
| 22.5° | 6043.9 | 6053.4 | 6091.5 | 6106.7 | 6007.7 | 5952.4 | 5870.5 | 5775.3 | 5763.9 | 5775.3 | 5550.5 |
| 25° | 6436.3 | 6426.8 | 6421.1 | 6363.9 | 6182.9 | 6097.2 | 5992.4 | 5893.4 | 5899.2 | 5950.6 | 5676.3 |
| 27.5° | 6956.3 | 6904.8 | 6824.8 | 6653.5 | 6365.8 | 6270.6 | 6142.9 | 6051.5 | 6087.7 | 6186.7 | 5864.9 |
| 30° | 7495.4 | 7438.2 | 7253.4 | 6973.5 | 6605.8 | 6501.1 | 6358.2 | 6255.3 | 6350.6 | 6506.8 | 6116.3 |
| 32.5° | 7994.4 | 7986.8 | 7716.3 | 7356.2 | 6937.2 | 6845.8 | 6703.0 | 6586.8 | 6741.0 | 6979.2 | 6493.4 |
| 35° | 8539.2 | 8556.3 | 8232.5 | 7800.1 | 7384.9 | 7289.6 | 7186.7 | 7099.2 | 7304.9 | 7632.4 | 7040.0 |
| 37.5° | 9122.1 | 9156.3 | 8773.4 | 8285.8 | 7895.3 | 7855.3 | 7794.4 | 7756.3 | 8074.4 | 8527.7 | 7803.9 |
| 40° | 9901.1 | 9866.8 | 9335.3 | 8834.4 | 8522.0 | 8520.2 | 8501.0 | 8546.8 | 9076.3 | 9697.3 | 8784.9 |
| 42.5° | 10735.4 | 10634.4 | 9931.5 | 9423.0 | 9209.6 | 9274.4 | 9312.5 | 9499.2 | 10282.1 | 11118.2 | 9981.1 |
| 45° | 11634.4 | 11407.7 | 10550.6 | 10045.9 | 9973.5 | 10110.6 | 10240.1 | 10645.8 | 11701.1 | 12735.4 | 11291.6 |
| 47.5° | 12352.5 | 12133.5 | 11190.7 | 10699.2 | 10857.3 | 11065.0 | 11314.4 | 11956.4 | 13289.7 | 14405.9 | 12585.0 |
| 50° | 12918.2 | 12775.4 | 11836.4 | 11461.1 | 11830.6 | 12150.6 | 12558.3 | 13440.1 | 14943.1 | 16032.6 | 13783.0 |
| 52.5° | 13466.8 | 13360.1 | 12487.8 | 12242.1 | 12973.5 | 13415.4 | 13969.7 | 15032.6 | 16638.3 | 17632.6 | 14790.6 |
| 55° | 13962.1 | 13885.9 | 13188.8 | 13215.4 | 14318.3 | 14893.6 | 15590.7 | 16846.0 | 18485.9 | 19059.3 | 15644.0 |
| 57.5° | 14520.2 | 14423.1 | 13988.8 | 14436.4 | 16045.9 | 16792.7 | 17699.3 | 18884.1 | 20219.3 | 20327.9 | 16293.6 |
| 60° | 15082.1 | 14998.3 | 14876.4 | 15845.9 | 18240.2 | 19025.0 | 19884.1 | 20859.3 | 21977.5 | 21312.7 | 16255.5 |
| 62.5° | 15569.7 | 15579.2 | 15794.5 | 17325.9 | 20388.8 | 21297.4 | 22345.0 | 23308.9 | 23568.0 | 21484.1 | 15053.5 |
| 65° | 16396.5 | 16546.9 | 17188.8 | 19421.2 | 23413.7 | 24628.9 | 25914.6 | 25760.4 | 24007.9 | 19882.2 | 12476.3 |
| 67.5° | 17379.3 | 17644.1 | 18945.0 | 22213.7 | 27236.6 | 28850.0 | 29347.1 | 26314.7 | 22246.0 | 16162.1 | 8893.4 |
| 70° | 17280.2 | 17644.1 | 19703.2 | 24295.6 | 30387.1 | 31469.0 | 29960.4 | 23815.6 | 17665.0 | 10558.3 | 4723.9 |
| 72.5° | 15345.0 | 15864.9 | 18158.4 | 23341.3 | 29394.7 | 29299.5 | 26009.9 | 17754.5 | 10495.4 | 4240.0 | 1845.7 |
| 75° | 11695.4 | 12221.1 | 14194.5 | 18440.2 | 23232.7 | 22432.7 | 18455.5 | 9807.7 | 3983.0 | 1683.9 | 1163.8 |
| 77.5° | 6727.7 | 7135.4 | 8659.2 | 11308.7 | 14739.3 | 13918.3 | 10272.6 | 4362.0 | 1939.1 | 1173.3 | 908.6 |
| 80° | 3756.3 | 3983.0 | 4908.6 | 5737.2 | 7223.0 | 6621.0 | 4596.2 | 2710.5 | 1447.7 | 851.4 | 700.9 |
| 82.5° | 2969.5 | 3171.5 | 3969.6 | 3619.1 | 3299.1 | 3043.9 | 2640.0 | 2413.3 | 1156.2 | 537.2 | 419.1 |
| 85° | 2594.3 | 2786.7 | 3360.1 | 2849.5 | 2253.4 | 2066.7 | 2144.8 | 2375.3 | 899.1 | 323.8 | 358.1 |
| 87.5° | 2403.8 | 2661.0 | 2994.3 | 2196.2 | 1754.4 | 1554.3 | 1979.1 | 2603.8 | 289.5 | 201.9 | 144.7 |
| 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-SL4-800

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5687.7 | 5687.7 | 5687.7 | 5687.7 | 5687.7 | 5687.7 | 5687.7 | 5687.7 | 5687.7 | 5687.7 | 5687.7 |
| 2.5° | 5619.2 | 5588.7 | 5539.2 | 5495.3 | 5426.8 | 5390.5 | 5350.5 | 5322.0 | 5299.1 | 5280.1 | 5310.5 |
| 5° | 5445.8 | 5388.6 | 5283.8 | 5171.5 | 5038.1 | 4933.4 | 4845.8 | 4763.9 | 4706.7 | 4668.6 | 4695.3 |
| 7.5° | 5282.0 | 5188.6 | 5024.8 | 4821.1 | 4592.4 | 4398.2 | 4238.2 | 4097.2 | 4000.0 | 3937.2 | 3962.0 |
| 10° | 5188.6 | 5072.4 | 4819.1 | 4499.1 | 4162.0 | 3859.1 | 3607.6 | 3390.6 | 3240.1 | 3154.4 | 3167.7 |
| 12.5° | 5165.8 | 5015.3 | 4664.9 | 4224.8 | 3763.8 | 3342.9 | 2988.7 | 2687.7 | 2476.3 | 2365.8 | 2369.6 |
| 15° | 5182.9 | 4990.6 | 4520.1 | 3962.0 | 3379.1 | 2847.7 | 2405.8 | 2040.1 | 1794.4 | 1668.6 | 1666.7 |
| 17.5° | 5211.5 | 4971.5 | 4367.7 | 3678.1 | 2988.7 | 2371.5 | 1878.1 | 1520.0 | 1302.8 | 1202.0 | 1194.3 |
| 20° | 5242.0 | 4941.1 | 4196.2 | 3371.4 | 2582.8 | 1929.6 | 1470.5 | 1190.5 | 1053.3 | 998.1 | 994.3 |
| 22.5° | 5285.8 | 4914.4 | 4019.1 | 3047.7 | 2184.8 | 1571.5 | 1209.5 | 1021.0 | 948.6 | 920.0 | 916.2 |
| 25° | 5356.3 | 4901.1 | 3830.5 | 2710.5 | 1826.7 | 1314.3 | 1053.3 | 937.1 | 895.3 | 876.2 | 874.3 |
| 27.5° | 5474.3 | 4920.1 | 3653.4 | 2382.9 | 1535.2 | 1141.0 | 965.8 | 895.3 | 864.8 | 847.6 | 845.8 |
| 30° | 5626.7 | 4979.1 | 3466.7 | 2072.4 | 1308.6 | 1022.8 | 912.4 | 866.6 | 841.9 | 824.8 | 824.8 |
| 32.5° | 5880.1 | 5078.1 | 3270.5 | 1803.9 | 1146.7 | 941.0 | 872.4 | 841.9 | 820.9 | 807.6 | 805.7 |
| 35° | 6253.4 | 5264.8 | 3087.7 | 1581.0 | 1030.5 | 881.9 | 838.1 | 815.3 | 800.0 | 792.4 | 792.4 |
| 37.5° | 6796.3 | 5560.0 | 2925.7 | 1421.0 | 960.0 | 841.9 | 805.7 | 788.6 | 779.1 | 779.1 | 779.1 |
| 40° | 7525.8 | 5967.7 | 2794.3 | 1314.3 | 920.0 | 813.3 | 780.9 | 767.6 | 761.9 | 763.8 | 763.8 |
| 42.5° | 8426.8 | 6497.3 | 2706.7 | 1240.0 | 901.0 | 796.2 | 763.8 | 752.4 | 746.7 | 744.8 | 746.7 |
| 45° | 9453.5 | 7099.2 | 2697.2 | 1184.8 | 881.9 | 784.8 | 752.4 | 740.9 | 729.6 | 721.9 | 721.9 |
| 47.5° | 10451.6 | 7710.6 | 2775.3 | 1165.8 | 860.9 | 771.4 | 742.9 | 731.4 | 714.3 | 697.1 | 697.1 |
| 50° | 11333.5 | 8230.6 | 2880.0 | 1173.3 | 853.3 | 752.4 | 727.6 | 721.9 | 695.2 | 676.2 | 674.3 |
| 52.5° | 12034.5 | 8630.6 | 2965.7 | 1196.2 | 860.9 | 739.1 | 708.6 | 710.4 | 681.9 | 660.9 | 659.1 |
| 55° | 12596.4 | 8893.4 | 2942.9 | 1219.1 | 878.1 | 731.4 | 691.4 | 695.2 | 672.4 | 651.4 | 651.4 |
| 57.5° | 12842.1 | 8796.4 | 2689.5 | 1200.0 | 891.4 | 733.4 | 678.1 | 693.4 | 674.3 | 655.2 | 655.2 |
| 60° | 12314.5 | 7933.5 | 2215.3 | 1116.2 | 874.3 | 727.6 | 672.4 | 700.9 | 699.1 | 680.1 | 678.1 |
| 62.5° | 10718.3 | 6388.6 | 1718.1 | 992.4 | 815.3 | 699.1 | 657.1 | 699.1 | 720.1 | 714.3 | 712.4 |
| 65° | 8261.0 | 4550.5 | 1312.4 | 859.1 | 735.3 | 651.4 | 617.1 | 655.2 | 683.8 | 691.4 | 689.6 |
| 67.5° | 5362.0 | 2788.6 | 1011.5 | 733.4 | 645.7 | 596.2 | 565.7 | 582.9 | 588.6 | 588.6 | 584.8 |
| 70° | 2636.2 | 1501.0 | 805.7 | 617.1 | 554.3 | 537.2 | 520.0 | 510.5 | 500.9 | 493.4 | 493.4 |
| 72.5° | 1301.0 | 981.0 | 662.9 | 521.9 | 478.1 | 470.5 | 466.7 | 455.2 | 447.6 | 438.1 | 434.2 |
| 75° | 961.9 | 798.1 | 563.9 | 440.0 | 411.4 | 403.9 | 411.4 | 401.9 | 400.0 | 392.4 | 388.6 |
| 77.5° | 790.5 | 680.1 | 485.7 | 377.2 | 352.4 | 339.0 | 350.5 | 352.4 | 354.2 | 342.9 | 339.0 |
| 80° | 641.9 | 575.2 | 405.7 | 312.4 | 289.5 | 280.0 | 287.7 | 302.9 | 306.7 | 289.5 | 281.9 |
| 82.5° | 462.9 | 470.5 | 327.7 | 243.8 | 224.7 | 217.2 | 232.4 | 251.4 | 255.2 | 230.5 | 224.7 |
| 85° | 388.6 | 392.4 | 251.4 | 173.3 | 154.3 | 142.9 | 167.7 | 186.7 | 200.0 | 175.2 | 169.5 |
| 87.5° | 161.9 | 230.5 | 144.7 | 97.2 | 85.7 | 74.3 | 89.5 | 99.0 | 120.0 | 110.5 | 108.5 |
| 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)