

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: P191277

Luminaire Tested: **GLEON-AF-09-LED-E1-SLL-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191277
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-09-LED-E1-SLL-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA 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: 31519.2 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

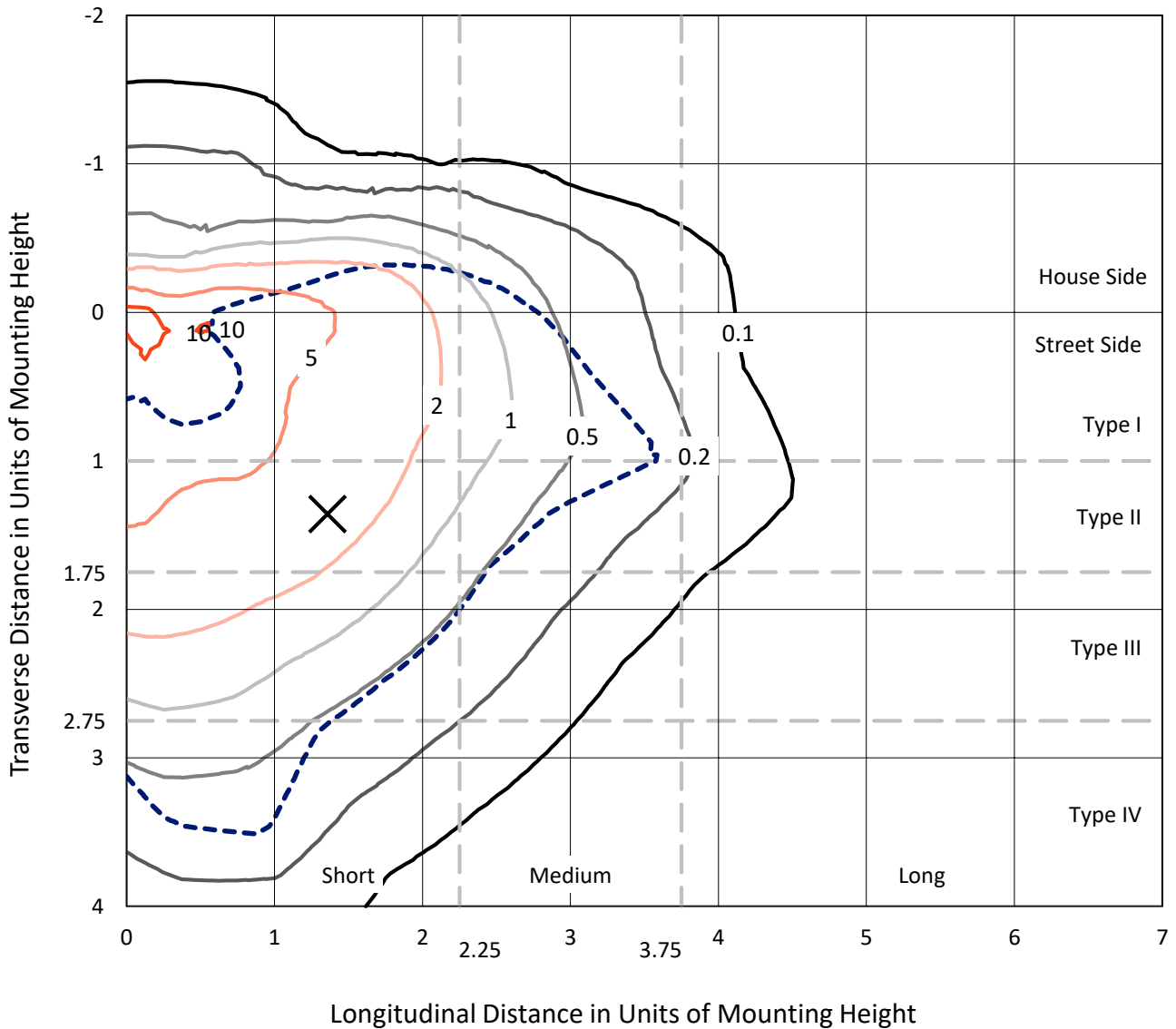
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191277
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Iso-Footcandle Lines of Horizontal Illumination

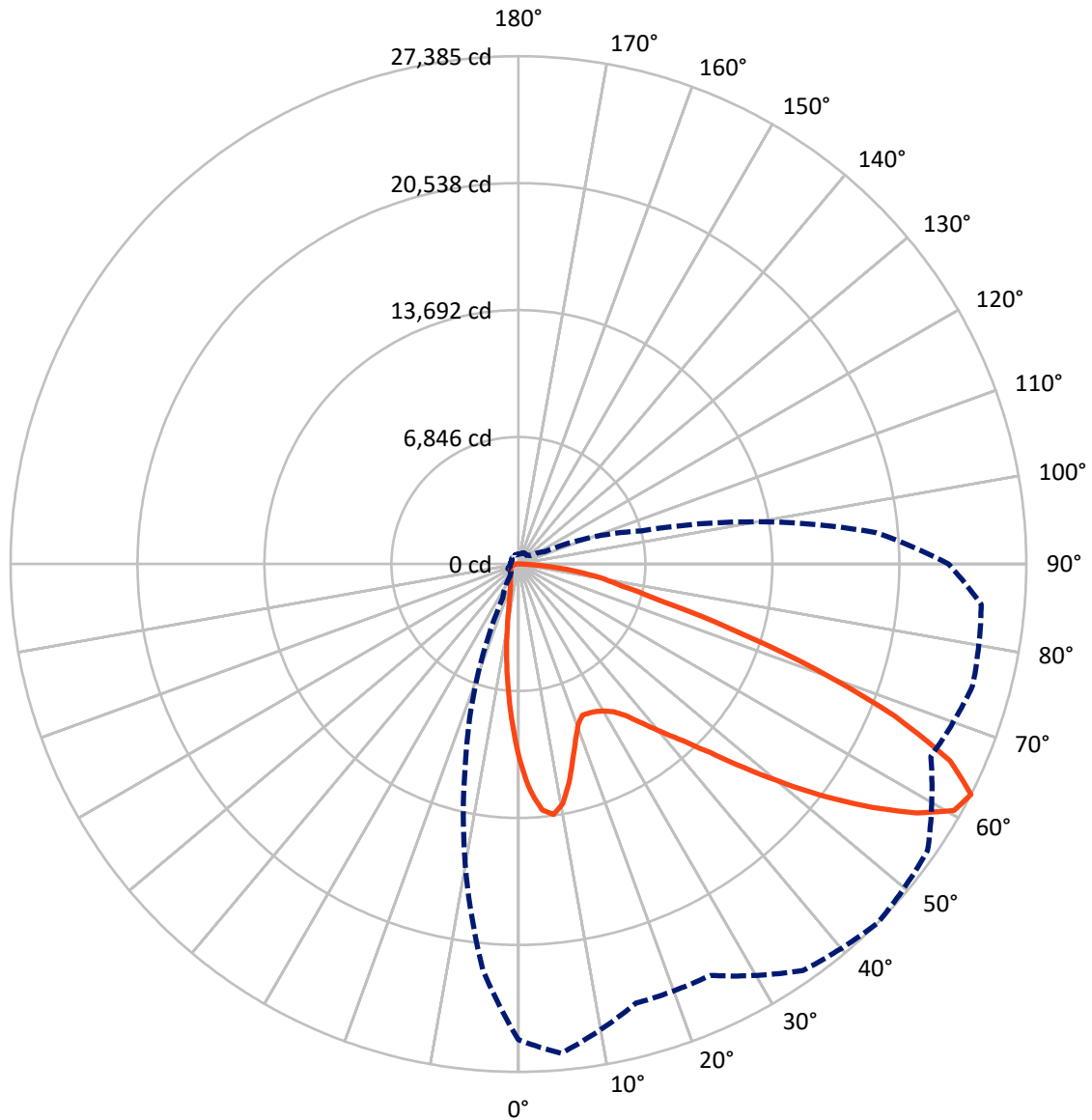
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5216.0 | 0.0 | 5216.0 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 26303.2 | 0.0 | 26303.2 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 31519.2 | 0.0 | 31519.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 775.2 | 2.5 |
| 10°-20° | 1421.5 | 4.5 |
| 20°-30° | 2072.5 | 6.6 |
| 30°-40° | 3192.0 | 10.1 |
| 40°-50° | 4697.8 | 14.9 |
| 50°-60° | 6890.6 | 21.9 |
| 60°-70° | 7702.7 | 24.4 |
| 70°-80° | 3771.2 | 12.0 |
| 80°-90° | 995.7 | 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° | 31519.2 | 100.0 |
| 0°-180° | 31519.2 | 100.0 |



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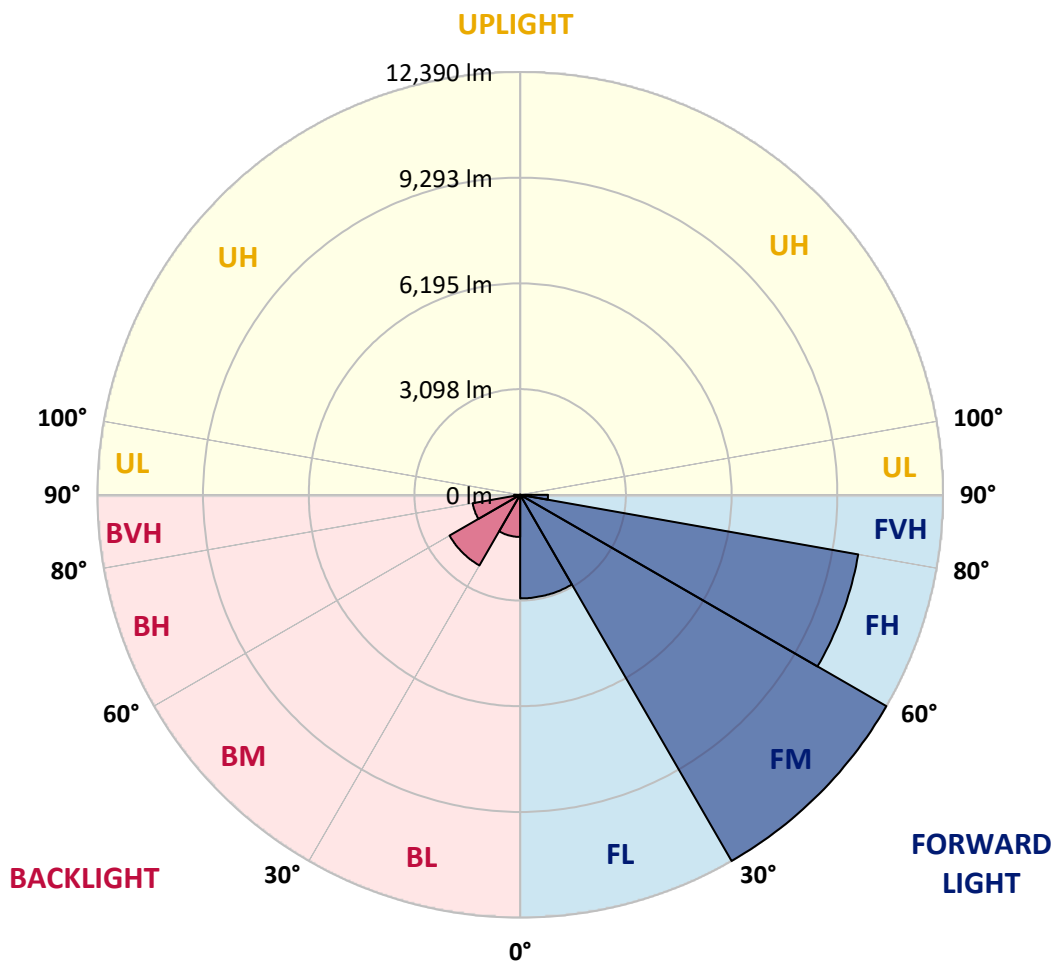
CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 3035.2 | 9.6 | | | |
| FM | (30°-60°) | 12390.5 | 39.3 | | | |
| FH | (60°-80°) | 10059.8 | 31.9 | | | G4/12000 |
| FVH | (80°-90°) | 817.7 | 2.6 | | | G5 |
| BL | (0°-30°) | 1234.0 | 3.9 | B3/2500 | | |
| BM | (30°-60°) | 2389.9 | 7.6 | B2/2500 | | |
| BH | (60°-80°) | 1414.1 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 178.0 | 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: P191277

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-600

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 |
| 2.5° | 11064.7 | 11241.4 | 11586.2 | 11844.4 | 12158.0 | 12230.8 | 12331.3 | 12232.5 | 12057.5 | 11825.3 | 11749.1 |
| 5° | 10404.5 | 10782.3 | 11619.2 | 12355.5 | 13010.5 | 13315.4 | 13400.3 | 13149.1 | 12641.4 | 11974.4 | 11567.2 |
| 7.5° | 9345.9 | 9883.0 | 11016.2 | 12100.8 | 13065.9 | 13635.9 | 13622.1 | 13038.2 | 12104.3 | 11017.9 | 10364.7 |
| 10° | 8432.8 | 9046.2 | 10345.6 | 11558.5 | 12582.5 | 13135.2 | 12922.1 | 12175.4 | 11061.3 | 9810.3 | 9101.6 |
| 12.5° | 7921.6 | 8522.9 | 9841.5 | 11059.5 | 11915.4 | 12106.0 | 11943.2 | 11212.0 | 10162.0 | 8897.1 | 8276.9 |
| 15° | 7833.3 | 8493.5 | 9640.5 | 10631.5 | 11111.5 | 10945.2 | 10751.1 | 10423.7 | 9682.0 | 8602.6 | 7956.3 |
| 17.5° | 8216.2 | 8944.0 | 9870.9 | 10333.5 | 10252.1 | 9962.7 | 9907.3 | 9943.7 | 9765.2 | 8930.1 | 8185.0 |
| 20° | 8950.9 | 9824.1 | 10420.2 | 10193.2 | 9598.9 | 9200.4 | 9214.2 | 9770.4 | 10298.9 | 9760.0 | 8909.3 |
| 22.5° | 9981.7 | 10978.1 | 11212.0 | 10267.7 | 9323.4 | 8850.4 | 8964.7 | 9865.7 | 11149.7 | 10972.9 | 9886.5 |
| 25° | 11316.0 | 12223.9 | 12055.8 | 10538.0 | 9351.1 | 8893.7 | 8985.5 | 10194.9 | 12154.5 | 12185.7 | 11095.8 |
| 27.5° | 12608.5 | 13450.6 | 12764.5 | 10896.7 | 9465.5 | 8995.9 | 9117.3 | 10713.0 | 13114.4 | 13502.5 | 12478.6 |
| 30° | 13616.9 | 14202.5 | 13045.1 | 11224.1 | 9690.7 | 9195.2 | 9345.9 | 11205.1 | 13551.0 | 14391.4 | 13542.4 |
| 32.5° | 14452.0 | 14873.1 | 13492.1 | 11629.5 | 10104.8 | 9508.7 | 9773.9 | 11802.8 | 14180.0 | 15237.0 | 14583.7 |
| 35° | 15519.4 | 15638.9 | 14048.3 | 12081.8 | 10744.2 | 10054.6 | 10383.8 | 12388.4 | 14779.5 | 16091.1 | 15609.4 |
| 37.5° | 16770.4 | 16616.1 | 14573.4 | 12700.3 | 11570.6 | 10908.7 | 11180.8 | 13031.3 | 15273.3 | 17059.6 | 16657.7 |
| 40° | 18007.4 | 17636.7 | 15231.7 | 13660.2 | 12776.6 | 11915.4 | 12237.7 | 13717.4 | 15734.2 | 18029.9 | 17681.7 |
| 42.5° | 19059.1 | 18509.9 | 15881.5 | 14715.4 | 13899.3 | 13026.1 | 13410.7 | 14408.7 | 16174.3 | 18858.2 | 18570.5 |
| 45° | 19837.2 | 19154.4 | 16500.0 | 15729.0 | 15446.6 | 14502.3 | 14684.3 | 15200.5 | 16650.8 | 19549.5 | 19301.8 |
| 47.5° | 20532.0 | 19802.5 | 17200.0 | 16751.2 | 16799.8 | 16422.0 | 16129.3 | 16122.3 | 17212.2 | 20114.4 | 19993.1 |
| 50° | 21462.3 | 20701.7 | 17952.0 | 17804.8 | 18830.5 | 18579.2 | 17932.9 | 17198.3 | 17922.5 | 20755.5 | 20741.6 |
| 52.5° | 22744.5 | 22125.9 | 18870.3 | 18939.6 | 20726.0 | 20890.6 | 20090.0 | 18490.9 | 19034.9 | 21931.9 | 21848.7 |
| 55° | 24260.6 | 23900.2 | 20121.2 | 20244.3 | 23051.2 | 23169.0 | 22373.7 | 20107.4 | 20670.6 | 23635.1 | 23404.6 |
| 57.5° | 25444.0 | 25367.7 | 21493.5 | 21810.6 | 24787.3 | 25317.5 | 24586.3 | 21978.7 | 22514.0 | 25069.8 | 24491.0 |
| 60° | 25915.2 | 26284.3 | 22954.2 | 23390.8 | 26393.5 | 26980.8 | 26339.8 | 23623.0 | 24148.0 | 25664.0 | 24416.5 |
| 62.5° | 25660.5 | 26485.3 | 24510.1 | 24473.7 | 26752.1 | 27384.5 | 26934.1 | 24537.8 | 25359.1 | 25050.6 | 23181.1 |
| 65° | 24484.1 | 25762.8 | 25412.8 | 24194.7 | 25525.4 | 25577.4 | 25431.9 | 24128.9 | 25645.0 | 23111.8 | 20793.5 |
| 67.5° | 21921.5 | 23761.6 | 24224.2 | 21803.7 | 22216.0 | 21878.2 | 21633.9 | 21890.3 | 24154.8 | 20206.1 | 17475.5 |
| 70° | 17855.0 | 20623.7 | 20845.5 | 17439.2 | 17252.0 | 17025.1 | 16538.1 | 17946.8 | 21214.6 | 16560.7 | 13866.4 |
| 72.5° | 13128.2 | 16039.2 | 16720.0 | 12790.5 | 11924.1 | 11970.9 | 11586.2 | 13525.0 | 17248.5 | 12301.8 | 10352.6 |
| 75° | 8982.0 | 11614.0 | 13081.5 | 8924.8 | 7885.3 | 7904.3 | 7855.9 | 9583.3 | 13738.2 | 8557.6 | 7746.7 |
| 77.5° | 6561.5 | 8297.7 | 9865.7 | 6000.1 | 5825.2 | 5717.8 | 5691.8 | 6705.3 | 10532.8 | 6213.3 | 6015.8 |
| 80° | 5265.5 | 6130.1 | 6627.4 | 4158.4 | 4471.9 | 4463.3 | 4319.5 | 4610.5 | 6878.6 | 4544.8 | 4499.7 |
| 82.5° | 3652.4 | 4711.1 | 5369.5 | 3259.1 | 3018.3 | 2968.0 | 3002.7 | 3434.1 | 4861.8 | 3106.6 | 2954.2 |
| 85° | 1926.7 | 3129.2 | 5317.5 | 2888.3 | 1791.6 | 1429.5 | 1777.7 | 2812.1 | 4212.1 | 1646.0 | 1441.5 |
| 87.5° | 246.0 | 904.5 | 3520.8 | 1152.3 | 707.0 | 381.2 | 843.8 | 1583.6 | 2704.7 | 336.1 | 292.8 |
| 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-09-LED-E1-SLL-600

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 |
| 2.5° | 11553.3 | 11322.8 | 11021.4 | 10742.4 | 10453.1 | 10165.5 | 9789.4 | 9553.8 | 9391.0 | 9359.8 | 9290.4 |
| 5° | 11272.6 | 10506.8 | 9928.0 | 9427.3 | 8973.4 | 8332.3 | 7977.1 | 7682.6 | 7524.9 | 7509.3 | 7471.2 |
| 7.5° | 9978.4 | 8921.5 | 8140.0 | 7431.3 | 6788.5 | 6270.5 | 5698.7 | 5431.9 | 5322.7 | 5348.7 | 5374.7 |
| 10° | 8632.1 | 7450.4 | 6552.9 | 5828.7 | 5262.1 | 4825.5 | 4366.3 | 4056.1 | 3841.3 | 3798.0 | 3789.3 |
| 12.5° | 7647.9 | 6351.9 | 5480.4 | 4969.3 | 4530.9 | 4120.2 | 3633.4 | 3267.8 | 2988.9 | 2893.5 | 2829.4 |
| 15° | 7232.1 | 5814.8 | 4901.7 | 4350.7 | 3867.3 | 3345.8 | 2893.5 | 2510.6 | 2254.2 | 2171.0 | 2124.3 |
| 17.5° | 7320.4 | 5665.8 | 4503.1 | 3798.0 | 3179.4 | 2635.3 | 2065.3 | 1737.9 | 1583.6 | 1543.8 | 1543.8 |
| 20° | 7784.8 | 5638.1 | 4173.9 | 3288.6 | 2517.6 | 1886.8 | 1419.0 | 1231.9 | 1181.7 | 1176.5 | 1190.3 |
| 22.5° | 8436.3 | 5735.1 | 3927.9 | 2846.8 | 1956.2 | 1377.5 | 1105.4 | 1036.1 | 1013.6 | 1018.8 | 1034.4 |
| 25° | 9406.5 | 6062.5 | 3749.4 | 2453.4 | 1535.1 | 1127.9 | 985.9 | 944.3 | 933.9 | 947.8 | 966.8 |
| 27.5° | 10557.1 | 6390.0 | 3638.5 | 2157.2 | 1296.0 | 1030.9 | 937.3 | 894.1 | 901.0 | 918.3 | 935.6 |
| 30° | 11567.2 | 6658.6 | 3463.6 | 1945.8 | 1221.5 | 1036.1 | 937.3 | 878.4 | 871.6 | 875.0 | 880.1 |
| 32.5° | 12473.4 | 6840.5 | 3259.1 | 1744.7 | 1053.4 | 920.0 | 875.0 | 866.3 | 828.2 | 814.4 | 816.1 |
| 35° | 13254.8 | 6840.5 | 3136.1 | 1627.0 | 944.3 | 816.1 | 743.3 | 700.0 | 681.0 | 682.6 | 701.7 |
| 37.5° | 14008.5 | 6703.6 | 3075.5 | 1561.1 | 885.4 | 776.2 | 712.1 | 674.0 | 648.0 | 642.8 | 646.3 |
| 40° | 14673.8 | 6504.3 | 3006.1 | 1533.4 | 840.4 | 752.0 | 691.3 | 660.1 | 632.4 | 623.8 | 625.5 |
| 42.5° | 15207.5 | 6343.2 | 2929.9 | 1497.0 | 812.6 | 734.7 | 677.5 | 649.8 | 618.6 | 609.9 | 608.1 |
| 45° | 15784.4 | 6289.5 | 2829.4 | 1424.3 | 826.4 | 736.4 | 674.0 | 644.6 | 613.4 | 602.9 | 599.4 |
| 47.5° | 16545.1 | 6457.6 | 2725.4 | 1337.6 | 855.9 | 745.0 | 679.2 | 644.6 | 611.6 | 602.9 | 599.4 |
| 50° | 17503.2 | 6852.6 | 2593.8 | 1211.2 | 826.4 | 769.3 | 677.5 | 639.3 | 611.6 | 602.9 | 596.1 |
| 52.5° | 18733.4 | 7386.3 | 2420.5 | 1065.6 | 809.2 | 828.2 | 674.0 | 628.9 | 602.9 | 590.9 | 578.7 |
| 55° | 20228.6 | 7822.9 | 2214.3 | 946.0 | 769.3 | 812.6 | 668.8 | 616.8 | 589.1 | 571.7 | 561.4 |
| 57.5° | 21323.7 | 7980.6 | 1949.2 | 868.1 | 713.8 | 786.6 | 661.8 | 601.2 | 571.7 | 557.9 | 544.0 |
| 60° | 21107.2 | 7675.6 | 1725.7 | 819.6 | 681.0 | 710.3 | 656.6 | 587.4 | 556.2 | 545.7 | 533.7 |
| 62.5° | 19372.7 | 6878.6 | 1581.9 | 797.0 | 660.1 | 648.0 | 661.8 | 573.5 | 542.4 | 531.9 | 528.5 |
| 65° | 16772.1 | 5702.1 | 1524.7 | 791.9 | 642.8 | 611.6 | 615.1 | 557.9 | 526.7 | 518.0 | 514.6 |
| 67.5° | 13835.2 | 4601.9 | 1474.5 | 809.2 | 620.3 | 585.6 | 568.4 | 537.2 | 511.2 | 502.5 | 495.5 |
| 70° | 10910.5 | 3827.5 | 1452.0 | 798.7 | 592.6 | 559.7 | 540.6 | 514.6 | 492.0 | 483.4 | 478.2 |
| 72.5° | 8786.2 | 3233.1 | 1439.8 | 788.4 | 556.2 | 525.0 | 507.7 | 485.2 | 460.8 | 457.5 | 452.2 |
| 75° | 7434.8 | 2541.8 | 1318.6 | 755.4 | 514.6 | 483.4 | 471.3 | 450.5 | 426.3 | 426.3 | 422.8 |
| 77.5° | 5735.1 | 1838.3 | 1096.8 | 668.8 | 471.3 | 436.6 | 426.3 | 410.6 | 382.9 | 388.1 | 386.4 |
| 80° | 4236.3 | 1199.0 | 857.6 | 554.4 | 417.6 | 384.6 | 379.4 | 363.9 | 334.4 | 341.4 | 341.4 |
| 82.5° | 2902.2 | 786.6 | 616.8 | 454.0 | 356.9 | 325.7 | 325.7 | 310.2 | 277.2 | 280.7 | 291.1 |
| 85° | 1457.2 | 540.6 | 460.8 | 351.7 | 277.2 | 261.7 | 261.7 | 249.5 | 216.6 | 218.3 | 232.2 |
| 87.5° | 443.6 | 325.7 | 304.9 | 251.2 | 199.3 | 195.8 | 187.1 | 178.5 | 157.6 | 155.9 | 164.6 |
| 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-09-LED-E1-SLL-600

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 | 10648.9 |
| 2.5° | 9184.8 | 9086.1 | 8966.5 | 8703.1 | 8614.8 | 8609.6 | 8689.3 | 8606.1 | 8765.5 | 8697.9 | 8772.4 |
| 5° | 7407.1 | 7310.0 | 7176.6 | 6840.5 | 6636.1 | 6497.5 | 6431.6 | 6237.5 | 6377.9 | 6275.7 | 6360.6 |
| 7.5° | 5447.4 | 5470.0 | 5381.6 | 5184.1 | 4738.8 | 4515.3 | 4383.7 | 4265.8 | 4368.0 | 4357.6 | 4520.5 |
| 10° | 3829.1 | 3889.8 | 3827.5 | 3628.2 | 3267.8 | 3144.8 | 3169.0 | 3215.9 | 3349.2 | 3418.5 | 3669.7 |
| 12.5° | 2756.6 | 2753.2 | 2713.4 | 2534.9 | 2297.4 | 2311.4 | 2410.1 | 2491.6 | 2614.6 | 2687.3 | 2943.7 |
| 15° | 2058.4 | 2027.2 | 2009.9 | 1864.3 | 1729.2 | 1758.7 | 1807.1 | 1815.8 | 1893.8 | 1937.1 | 2145.0 |
| 17.5° | 1555.9 | 1571.6 | 1590.6 | 1486.7 | 1384.4 | 1365.3 | 1327.2 | 1280.4 | 1302.9 | 1311.6 | 1415.6 |
| 20° | 1235.4 | 1297.7 | 1344.6 | 1271.7 | 1167.8 | 1112.4 | 1063.9 | 1032.7 | 1032.7 | 1030.9 | 1060.4 |
| 22.5° | 1079.4 | 1124.5 | 1174.8 | 1124.5 | 1030.9 | 982.4 | 954.7 | 930.5 | 927.0 | 927.0 | 954.7 |
| 25° | 994.5 | 1027.5 | 1075.9 | 1041.4 | 972.0 | 935.6 | 909.6 | 878.4 | 866.3 | 862.9 | 881.9 |
| 27.5° | 953.0 | 966.8 | 991.0 | 959.9 | 901.0 | 883.6 | 876.8 | 849.0 | 833.4 | 824.7 | 843.8 |
| 30° | 881.9 | 878.4 | 880.1 | 849.0 | 802.2 | 800.5 | 812.6 | 817.8 | 812.6 | 810.9 | 840.4 |
| 32.5° | 816.1 | 809.2 | 807.4 | 779.7 | 736.4 | 726.0 | 736.4 | 746.8 | 758.9 | 776.2 | 810.9 |
| 35° | 732.9 | 750.2 | 760.7 | 736.4 | 684.4 | 653.3 | 641.1 | 622.1 | 611.6 | 611.6 | 651.5 |
| 37.5° | 667.1 | 707.0 | 722.5 | 700.0 | 642.8 | 599.4 | 578.7 | 575.2 | 576.9 | 583.9 | 622.1 |
| 40° | 644.6 | 674.0 | 687.8 | 665.3 | 608.1 | 568.4 | 556.2 | 552.7 | 556.2 | 566.6 | 604.7 |
| 42.5° | 630.6 | 651.5 | 649.8 | 622.1 | 575.2 | 547.5 | 540.6 | 537.2 | 540.6 | 551.0 | 592.6 |
| 45° | 618.6 | 632.4 | 618.6 | 585.6 | 542.4 | 528.5 | 530.2 | 528.5 | 531.9 | 542.4 | 582.2 |
| 47.5° | 608.1 | 613.4 | 596.1 | 563.1 | 518.0 | 514.6 | 521.5 | 526.7 | 530.2 | 538.9 | 580.4 |
| 50° | 592.6 | 592.6 | 576.9 | 542.4 | 497.3 | 499.0 | 507.7 | 519.8 | 521.5 | 531.9 | 564.9 |
| 52.5° | 573.5 | 571.7 | 561.4 | 528.5 | 480.0 | 485.2 | 485.2 | 499.0 | 502.5 | 514.6 | 549.2 |
| 55° | 557.9 | 554.4 | 549.2 | 518.0 | 464.3 | 473.0 | 467.8 | 473.0 | 481.7 | 493.8 | 531.9 |
| 57.5° | 544.0 | 537.2 | 537.2 | 509.4 | 452.2 | 455.7 | 443.6 | 450.5 | 460.8 | 471.3 | 511.2 |
| 60° | 530.2 | 523.2 | 526.7 | 497.3 | 433.1 | 429.7 | 424.5 | 438.3 | 441.8 | 454.0 | 493.8 |
| 62.5° | 514.6 | 509.4 | 511.2 | 483.4 | 419.3 | 410.6 | 410.6 | 422.8 | 424.5 | 441.8 | 480.0 |
| 65° | 502.5 | 495.5 | 493.8 | 469.5 | 403.8 | 393.3 | 398.5 | 403.8 | 407.1 | 424.5 | 460.8 |
| 67.5° | 490.3 | 476.5 | 476.5 | 457.5 | 386.4 | 375.9 | 386.4 | 384.6 | 389.8 | 405.4 | 434.9 |
| 70° | 474.8 | 455.7 | 457.5 | 448.8 | 369.1 | 356.9 | 365.6 | 363.9 | 367.3 | 377.7 | 407.1 |
| 72.5° | 450.5 | 434.9 | 438.3 | 434.9 | 351.7 | 334.4 | 337.9 | 337.9 | 337.9 | 346.6 | 377.7 |
| 75° | 419.3 | 407.1 | 417.6 | 426.3 | 330.9 | 306.7 | 310.2 | 310.2 | 304.9 | 310.2 | 348.2 |
| 77.5° | 381.2 | 374.3 | 408.9 | 396.8 | 306.7 | 277.2 | 277.2 | 273.7 | 263.4 | 270.3 | 311.9 |
| 80° | 339.6 | 334.4 | 377.7 | 332.7 | 279.0 | 240.8 | 237.3 | 228.7 | 218.3 | 223.5 | 265.0 |
| 82.5° | 296.2 | 291.1 | 317.1 | 254.7 | 240.8 | 199.3 | 190.6 | 175.0 | 164.6 | 169.8 | 208.0 |
| 85° | 242.5 | 242.5 | 244.3 | 192.3 | 183.6 | 152.5 | 142.1 | 121.3 | 109.1 | 112.6 | 149.0 |
| 87.5° | 173.3 | 178.5 | 164.6 | 131.7 | 109.1 | 84.9 | 77.9 | 65.9 | 55.4 | 64.1 | 77.9 |
| 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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| 7.5° | 4898.2 | 5237.8 | 5664.1 | 6298.2 | 6967.0 | 7873.1 | 8805.4 | 9345.9 |
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| 32.5° | 819.6 | 855.9 | 966.8 | 1561.1 | 2928.2 | 7057.1 | 12580.8 | 14452.0 |
| 35° | 698.3 | 762.4 | 862.9 | 1503.9 | 2931.7 | 7244.2 | 13483.5 | 15519.4 |
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| 42.5° | 630.6 | 684.4 | 762.4 | 1429.5 | 3028.7 | 7788.2 | 16370.1 | 19059.1 |
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| 65° | 490.3 | 495.5 | 547.5 | 812.6 | 1938.8 | 9614.5 | 20079.7 | 24484.1 |
| 67.5° | 448.8 | 473.0 | 525.0 | 869.8 | 1944.0 | 7698.2 | 17262.4 | 21921.5 |
| 70° | 422.8 | 448.8 | 499.0 | 899.3 | 1957.9 | 5738.5 | 13648.1 | 17855.0 |
| 72.5° | 393.3 | 415.8 | 469.5 | 904.5 | 1867.8 | 4168.7 | 10518.9 | 13128.2 |
| 75° | 358.6 | 379.4 | 428.0 | 788.4 | 1547.2 | 2891.8 | 8046.4 | 8982.0 |
| 77.5° | 318.9 | 334.4 | 375.9 | 608.1 | 1148.8 | 1850.5 | 6040.0 | 6561.5 |
| 80° | 272.0 | 280.7 | 315.4 | 445.3 | 786.6 | 1157.4 | 4778.6 | 5265.5 |
| 82.5° | 218.3 | 221.8 | 244.3 | 334.4 | 511.2 | 743.3 | 3200.2 | 3652.4 |
| 85° | 154.2 | 154.2 | 168.1 | 242.5 | 348.2 | 471.3 | 1737.9 | 1926.7 |
| 87.5° | 72.7 | 74.5 | 74.5 | 133.4 | 181.9 | 239.1 | 400.3 | 246.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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