

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: P269584

Luminaire Tested: **GLEON-AF-08-LED-E1-T2R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
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-T2R-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47366.3 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

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

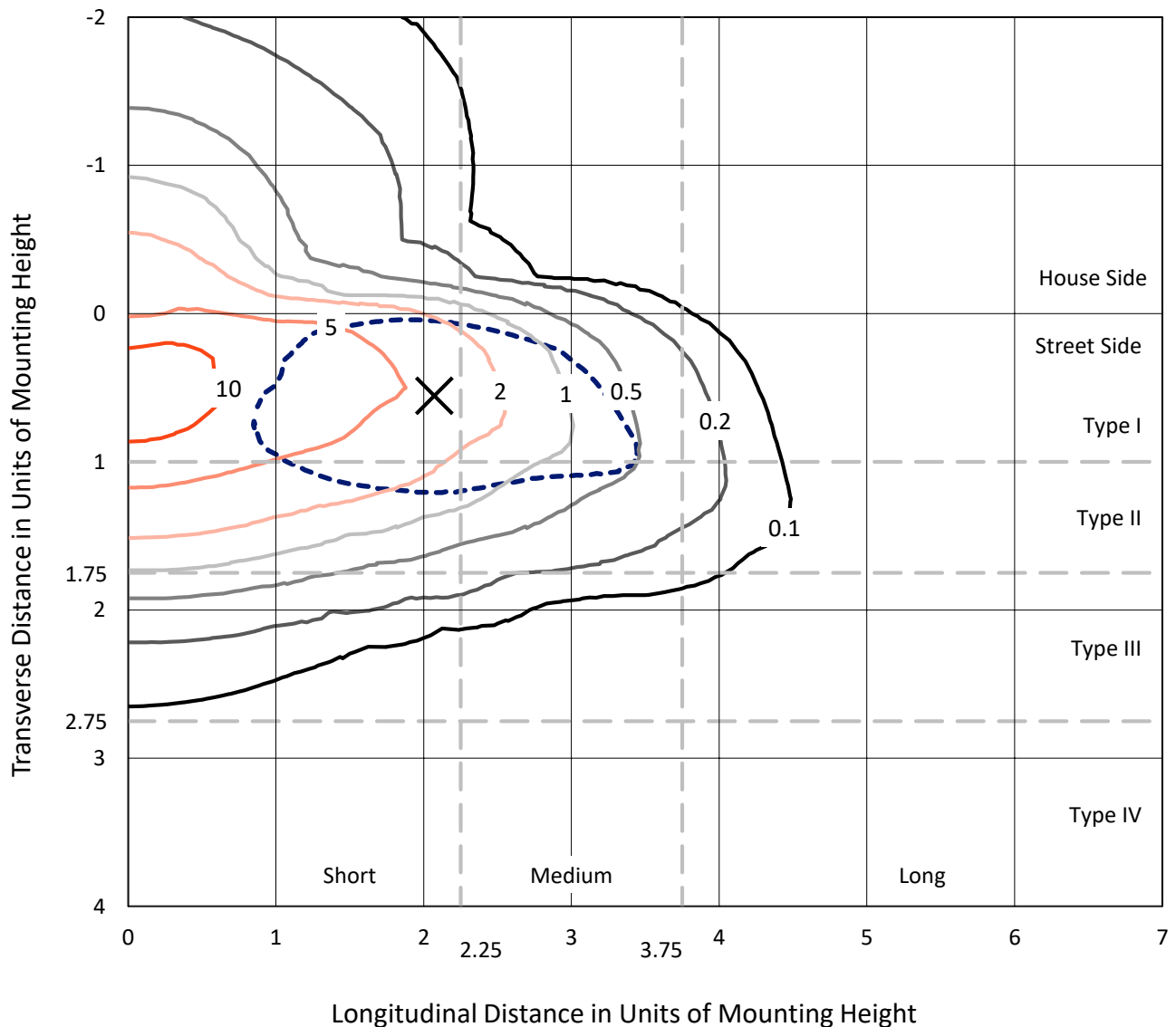


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

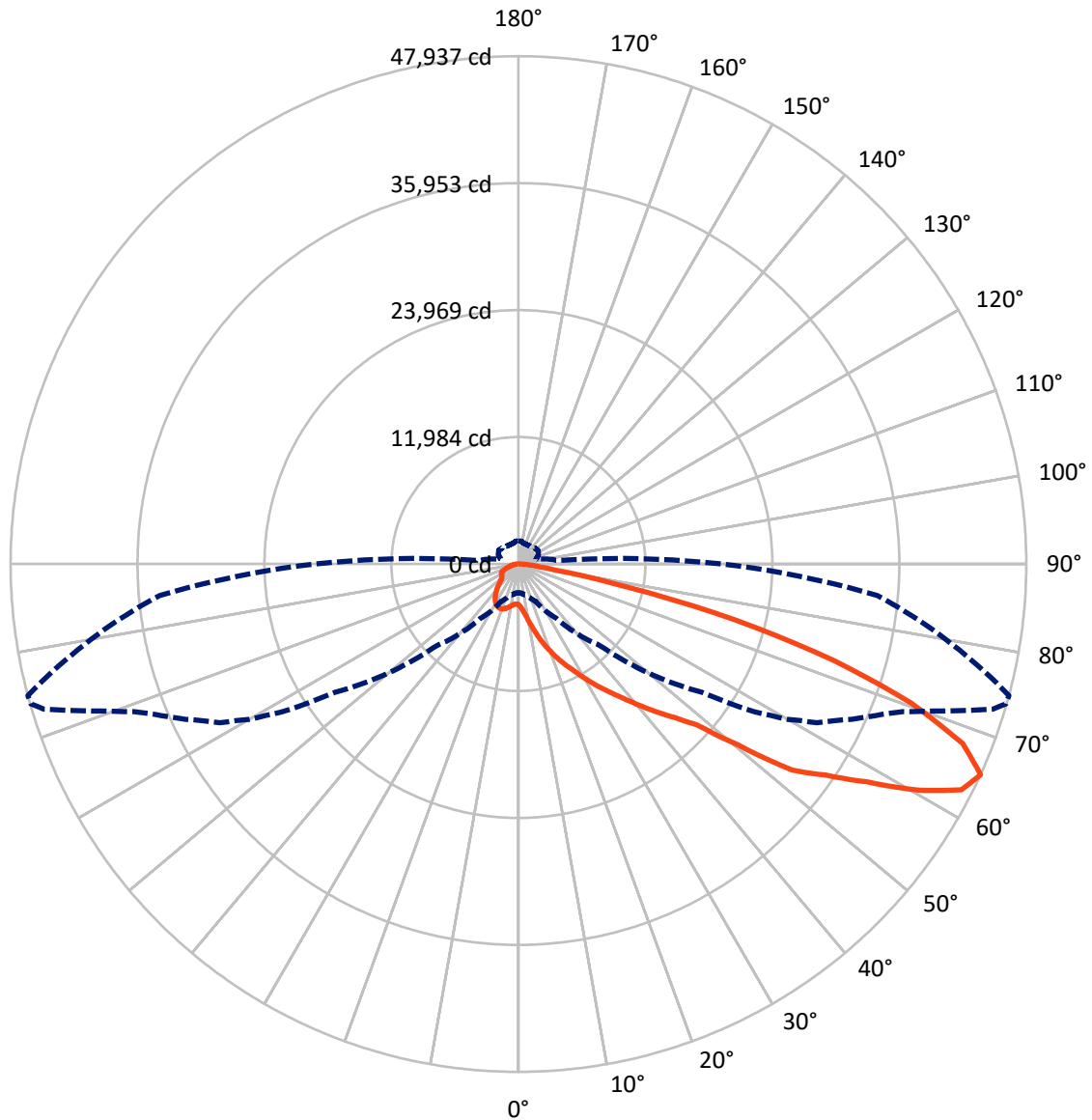


Based on 30 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7302.8 | 0.0 | 7302.8 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 40063.5 | 0.0 | 40063.5 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 47366.3 | 0.0 | 47366.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 475.8 | 1.0 |
| 10°-20° | 1859.1 | 3.9 |
| 20°-30° | 3814.2 | 8.1 |
| 30°-40° | 6417.2 | 13.5 |
| 40°-50° | 8866.7 | 18.7 |
| 50°-60° | 11068.3 | 23.4 |
| 60°-70° | 9960.3 | 21.0 |
| 70°-80° | 4175.3 | 8.8 |
| 80°-90° | 729.4 | 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° | 47366.3 | 100.0 |
| 0°-180° | 47366.3 | 100.0 |

Coefficient of Utilization



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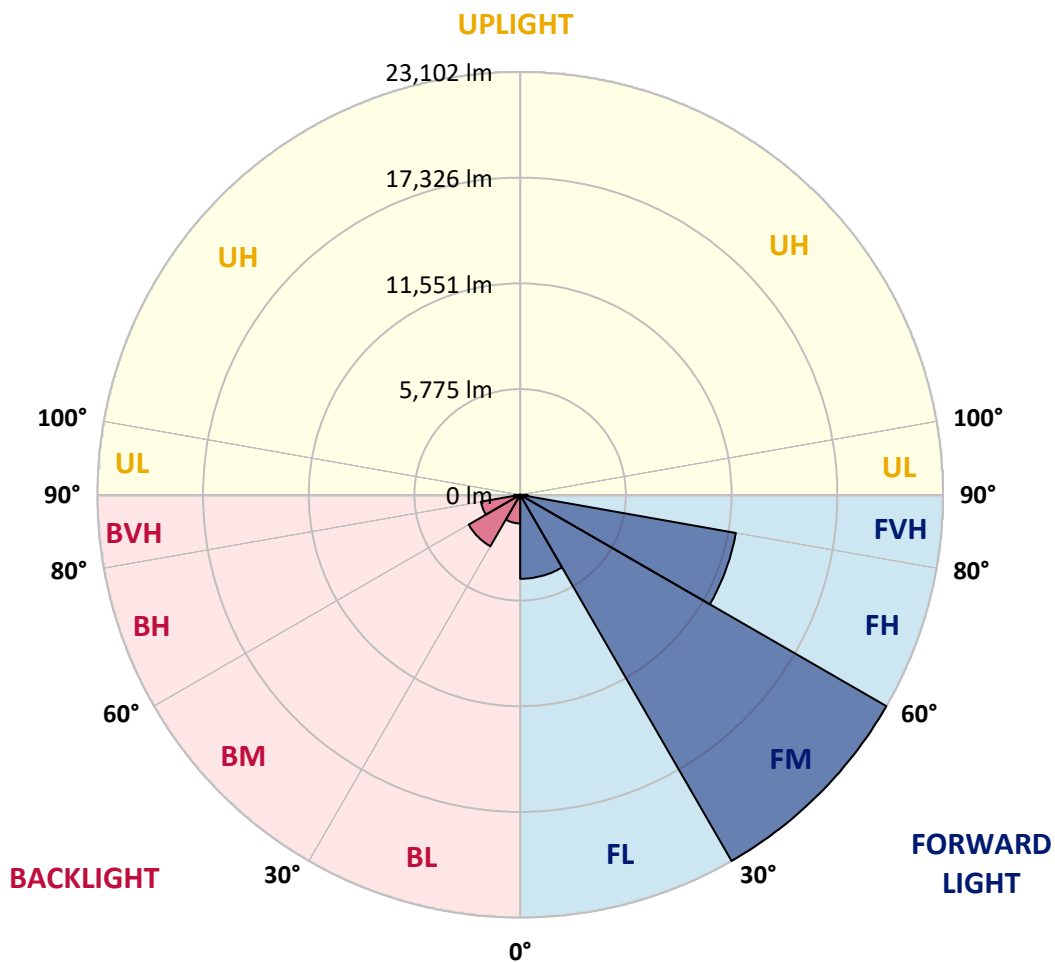
CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 4587.3 | 9.7 | | | |
| FM (30°-60°) | 23101.7 | 48.8 | | | |
| FH (60°-80°) | 11964.6 | 25.3 | | | G4/12000 |
| FVH (80°-90°) | 410.0 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1561.8 | 3.3 | B3/2500 | | |
| BM (30°-60°) | 3250.6 | 6.9 | B3/5000 | | |
| BH (60°-80°) | 2171.0 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 319.4 | 0.7 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 |
| 2.5° | 4887.5 | 4833.6 | 4847.1 | 4757.5 | 4647.6 | 4504.0 | 4344.9 | 4342.6 | 4344.9 | 4329.2 | 4270.9 |
| 5° | 6777.4 | 6712.3 | 6687.7 | 6485.9 | 6190.0 | 5768.6 | 5311.1 | 5261.8 | 5241.7 | 5190.0 | 5071.3 |
| 7.5° | 8156.3 | 8120.3 | 8082.2 | 7929.8 | 7660.7 | 7189.9 | 6575.7 | 6470.2 | 6369.3 | 6344.6 | 6210.3 |
| 10° | 9046.2 | 9037.3 | 8956.6 | 8916.1 | 8748.1 | 8340.0 | 7741.5 | 7640.5 | 7530.8 | 7492.6 | 7351.3 |
| 12.5° | 9750.3 | 9748.0 | 9709.9 | 9721.1 | 9575.4 | 9279.4 | 8763.8 | 8671.9 | 8591.1 | 8474.5 | 8373.7 |
| 15° | 10236.7 | 10238.9 | 10295.0 | 10357.7 | 10335.4 | 10135.8 | 9651.6 | 9611.2 | 9541.6 | 9460.9 | 9342.2 |
| 17.5° | 10635.8 | 10647.0 | 10705.3 | 10819.6 | 10943.0 | 10927.3 | 10543.9 | 10510.2 | 10449.8 | 10339.9 | 10277.1 |
| 20° | 11537.0 | 11579.6 | 11467.6 | 11467.6 | 11481.0 | 11541.6 | 11357.7 | 11330.9 | 11245.6 | 11187.3 | 11137.9 |
| 22.5° | 13059.3 | 13108.6 | 12855.4 | 12597.6 | 12344.1 | 12160.3 | 11976.5 | 12010.1 | 11951.8 | 11911.4 | 11882.3 |
| 25° | 15036.6 | 15074.8 | 14664.6 | 14229.6 | 13714.0 | 13041.5 | 12586.2 | 12566.1 | 12534.7 | 12510.1 | 12496.6 |
| 27.5° | 16897.6 | 16913.2 | 16525.4 | 15888.6 | 15290.1 | 14323.7 | 13205.1 | 13180.4 | 13142.3 | 13095.2 | 13054.9 |
| 30° | 18489.4 | 18484.9 | 18085.8 | 17478.2 | 16837.0 | 15767.6 | 14144.4 | 14068.1 | 13956.1 | 13828.2 | 13729.7 |
| 32.5° | 19868.2 | 19861.3 | 19424.2 | 18794.2 | 18121.6 | 17198.0 | 15431.4 | 15274.4 | 15099.5 | 14850.6 | 14700.5 |
| 35° | 20953.2 | 20948.7 | 20536.2 | 19879.3 | 19108.0 | 18545.4 | 16906.6 | 16713.7 | 16491.8 | 16157.8 | 15926.8 |
| 37.5° | 21363.5 | 21363.5 | 21132.5 | 20684.2 | 20002.6 | 19616.9 | 18545.4 | 18312.2 | 18074.5 | 17695.6 | 17435.7 |
| 40° | 21123.6 | 21128.0 | 21177.5 | 21094.4 | 20762.6 | 20466.8 | 20074.3 | 19935.4 | 19731.4 | 19390.5 | 19119.3 |
| 42.5° | 20318.8 | 20343.3 | 20670.7 | 21072.0 | 21237.9 | 21190.8 | 21430.8 | 21368.0 | 21224.4 | 20962.2 | 20747.0 |
| 45° | 19298.6 | 19374.9 | 19733.5 | 20491.3 | 21370.1 | 21816.3 | 22567.4 | 22574.1 | 22547.2 | 22406.0 | 22240.1 |
| 47.5° | 17897.4 | 18005.1 | 18478.0 | 19502.7 | 21060.9 | 22423.9 | 23722.0 | 23782.5 | 23838.6 | 23746.7 | 23670.5 |
| 50° | 16036.6 | 16164.5 | 16872.9 | 18231.6 | 20430.8 | 23053.9 | 25903.4 | 26176.9 | 26432.4 | 26401.1 | 26452.7 |
| 52.5° | 14043.6 | 14193.8 | 15061.4 | 16574.6 | 19348.0 | 23199.6 | 27298.0 | 27744.1 | 28190.3 | 28555.6 | 28943.5 |
| 55° | 12245.4 | 12164.8 | 13032.4 | 14626.5 | 17567.9 | 22542.7 | 28551.2 | 29089.3 | 29586.9 | 30035.3 | 30497.2 |
| 57.5° | 9808.6 | 9940.7 | 10810.7 | 12386.8 | 15211.5 | 20688.7 | 29414.3 | 30201.2 | 30916.3 | 31658.4 | 32313.1 |
| 60° | 7169.7 | 7302.1 | 8245.9 | 9846.6 | 12653.5 | 17877.3 | 28755.1 | 29947.9 | 31093.6 | 32230.2 | 33118.1 |
| 62.5° | 4329.2 | 4427.8 | 5259.5 | 6784.1 | 9756.9 | 14543.5 | 25818.2 | 27383.2 | 29069.1 | 30427.7 | 31788.5 |
| 65° | 2694.8 | 2750.9 | 3058.0 | 3896.5 | 6266.2 | 10857.8 | 21094.4 | 22800.6 | 24616.6 | 26340.6 | 27755.2 |
| 67.5° | 2206.1 | 2226.3 | 2282.4 | 2461.6 | 3441.3 | 7080.0 | 15700.3 | 17211.3 | 18850.3 | 20518.2 | 22092.0 |
| 70° | 1984.1 | 1970.7 | 1970.7 | 1981.9 | 2206.1 | 3806.7 | 10279.3 | 11263.5 | 12628.9 | 14079.5 | 15518.7 |
| 72.5° | 1791.3 | 1777.8 | 1753.2 | 1719.5 | 1800.3 | 2322.7 | 5313.5 | 6055.5 | 7039.7 | 8328.8 | 9707.7 |
| 75° | 1609.8 | 1591.7 | 1562.6 | 1520.0 | 1576.0 | 1753.2 | 2551.4 | 2863.0 | 3342.8 | 4028.8 | 4797.8 |
| 77.5° | 1421.4 | 1399.0 | 1372.2 | 1340.7 | 1412.5 | 1363.1 | 1495.4 | 1607.4 | 1791.3 | 2011.0 | 2300.2 |
| 80° | 1208.4 | 1188.2 | 1179.3 | 1163.6 | 1248.7 | 1038.0 | 1056.0 | 1125.4 | 1233.1 | 1351.9 | 1486.4 |
| 82.5° | 946.2 | 946.2 | 981.9 | 988.8 | 1082.8 | 746.6 | 789.3 | 849.6 | 905.8 | 968.6 | 1031.3 |
| 85° | 623.2 | 627.7 | 748.7 | 795.9 | 854.2 | 502.2 | 591.9 | 612.0 | 656.9 | 692.8 | 719.6 |
| 87.5° | 195.0 | 210.7 | 457.3 | 506.6 | 491.0 | 284.8 | 363.2 | 372.2 | 403.6 | 428.2 | 450.6 |
| 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-08-LED-E1-T2R-7027-1200

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 |
| 2.5° | 4270.9 | 4244.0 | 4219.2 | 4217.2 | 4199.1 | 4174.6 | 4183.4 | 4145.4 | 4147.7 | 4127.4 | 4105.1 |
| 5° | 5022.0 | 5004.0 | 4914.4 | 4889.7 | 4822.5 | 4779.8 | 4773.1 | 4683.5 | 4672.3 | 4620.6 | 4564.6 |
| 7.5° | 6102.5 | 6044.2 | 5918.8 | 5858.1 | 5743.9 | 5658.7 | 5618.3 | 5499.6 | 5441.3 | 5306.6 | 5246.1 |
| 10° | 7234.8 | 7160.7 | 7006.2 | 6920.9 | 6810.9 | 6674.2 | 6600.2 | 6427.6 | 6360.4 | 6237.1 | 6089.2 |
| 12.5° | 8284.0 | 8210.0 | 8050.8 | 7985.8 | 7840.0 | 7694.3 | 7613.7 | 7418.7 | 7331.2 | 7133.9 | 7017.3 |
| 15° | 9254.8 | 9180.8 | 9041.8 | 8974.4 | 8828.8 | 8710.0 | 8602.3 | 8409.6 | 8306.4 | 8122.6 | 7970.1 |
| 17.5° | 10196.3 | 10117.9 | 9996.8 | 9936.3 | 9795.1 | 9673.9 | 9557.3 | 9375.8 | 9270.5 | 9086.5 | 8949.9 |
| 20° | 11070.7 | 11012.4 | 10924.9 | 10844.2 | 10703.0 | 10593.3 | 10454.1 | 10297.2 | 10144.7 | 10010.4 | 9880.3 |
| 22.5° | 11833.0 | 11810.6 | 11716.5 | 11680.5 | 11559.5 | 11465.2 | 11344.2 | 11189.6 | 11079.6 | 10909.2 | 10788.3 |
| 25° | 12489.9 | 12483.1 | 12438.3 | 12427.2 | 12342.0 | 12252.3 | 12225.4 | 12097.6 | 11996.7 | 11846.4 | 11720.8 |
| 27.5° | 13054.9 | 13061.5 | 13050.3 | 13081.7 | 13059.3 | 13019.0 | 13021.2 | 12978.6 | 12920.3 | 12794.7 | 12685.0 |
| 30° | 13682.5 | 13646.7 | 13667.0 | 13711.6 | 13725.2 | 13729.7 | 13803.6 | 13828.2 | 13823.8 | 13740.8 | 13687.0 |
| 32.5° | 14570.4 | 14485.2 | 14406.7 | 14400.0 | 14444.8 | 14462.8 | 14588.4 | 14653.3 | 14709.3 | 14729.6 | 14738.5 |
| 35° | 15702.6 | 15532.1 | 15368.6 | 15281.1 | 15204.8 | 15225.1 | 15314.8 | 15420.0 | 15543.5 | 15628.6 | 15729.5 |
| 37.5° | 17128.4 | 16919.9 | 16630.7 | 16424.5 | 16372.9 | 16260.8 | 16319.1 | 16402.1 | 16523.2 | 16655.5 | 16830.3 |
| 40° | 18857.0 | 18540.8 | 18215.8 | 17942.2 | 17794.3 | 17588.0 | 17585.8 | 17570.0 | 17644.1 | 17767.3 | 18014.0 |
| 42.5° | 20520.5 | 20240.3 | 19895.0 | 19608.1 | 19415.2 | 19139.5 | 19083.5 | 18937.7 | 18971.3 | 19078.9 | 19318.8 |
| 45° | 22078.6 | 21847.8 | 21636.9 | 21305.2 | 21141.5 | 20843.4 | 20749.2 | 20576.5 | 20480.2 | 20529.4 | 20769.4 |
| 47.5° | 23587.4 | 23439.6 | 23219.7 | 23004.5 | 22879.0 | 22612.2 | 22491.1 | 22367.8 | 22244.5 | 22240.1 | 22491.1 |
| 50° | 26528.9 | 26450.5 | 26190.4 | 25966.1 | 26026.8 | 25699.4 | 25719.6 | 25387.8 | 25537.9 | 25555.9 | 26082.7 |
| 52.5° | 29293.2 | 29566.8 | 29759.6 | 29994.9 | 30147.4 | 30176.6 | 30277.5 | 30427.7 | 30609.2 | 30968.0 | 31456.7 |
| 55° | 30876.1 | 31219.1 | 31418.6 | 31597.9 | 31894.0 | 31956.7 | 32124.7 | 32324.3 | 32483.5 | 32887.0 | 33301.8 |
| 57.5° | 32757.1 | 33393.8 | 33703.1 | 33987.8 | 34386.8 | 34539.4 | 34819.7 | 35037.1 | 35243.4 | 35720.9 | 36223.1 |
| 60° | 33916.1 | 34691.9 | 35321.8 | 35772.5 | 36272.4 | 36631.2 | 37054.8 | 37395.6 | 37879.9 | 38451.6 | 39200.3 |
| 62.5° | 32994.7 | 34133.5 | 34969.8 | 35743.3 | 36422.6 | 37108.7 | 37716.1 | 38353.0 | 39088.3 | 39953.6 | 41115.1 |
| 65° | 29324.6 | 30483.8 | 31916.3 | 32719.0 | 33617.9 | 34676.2 | 35599.8 | 36631.2 | 37633.2 | 38893.2 | 40610.5 |
| 67.5° | 23607.6 | 24955.1 | 26564.8 | 27374.1 | 28407.7 | 29589.2 | 30624.9 | 31884.9 | 33055.2 | 34582.1 | 36705.1 |
| 70° | 17016.4 | 18758.3 | 20112.5 | 20957.6 | 22163.8 | 23381.3 | 24381.2 | 25847.4 | 26815.9 | 28380.8 | 30575.6 |
| 72.5° | 10774.8 | 12149.0 | 13808.1 | 14873.1 | 15944.6 | 17177.7 | 18200.1 | 19464.6 | 20368.1 | 21793.9 | 23782.5 |
| 75° | 5793.2 | 6806.5 | 8263.8 | 9274.9 | 10422.9 | 11476.4 | 12673.6 | 13521.2 | 14189.3 | 15317.0 | 16931.2 |
| 77.5° | 2714.9 | 3331.5 | 4069.1 | 4847.1 | 5625.0 | 6436.6 | 7225.7 | 7911.8 | 8198.8 | 8844.4 | 9797.3 |
| 80° | 1647.9 | 1847.4 | 2062.6 | 2302.4 | 2627.5 | 2889.8 | 3237.3 | 3488.5 | 3506.4 | 3710.4 | 4001.9 |
| 82.5° | 1100.9 | 1174.8 | 1239.8 | 1300.3 | 1383.3 | 1448.2 | 1522.3 | 1609.8 | 1645.5 | 1692.6 | 1786.8 |
| 85° | 751.1 | 786.9 | 800.4 | 838.5 | 829.6 | 852.0 | 881.1 | 910.3 | 926.0 | 923.6 | 966.2 |
| 87.5° | 461.9 | 479.8 | 488.8 | 497.8 | 491.0 | 482.0 | 495.4 | 511.1 | 515.6 | 502.2 | 506.6 |
| 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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CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 | 3849.3 |
| 2.5° | 4109.4 | 4089.4 | 4069.1 | 4055.7 | 4051.1 | 3932.4 | 3880.8 | 3847.3 | 3775.4 | 3717.1 | 3670.0 |
| 5° | 4533.1 | 4490.5 | 4457.0 | 4416.6 | 4394.1 | 4093.8 | 3984.0 | 3907.6 | 3782.1 | 3708.2 | 3640.9 |
| 7.5° | 5214.8 | 5095.9 | 5026.5 | 4948.0 | 4880.8 | 4338.2 | 4156.5 | 4037.7 | 3862.9 | 3764.2 | 3688.0 |
| 10° | 5988.2 | 5864.9 | 5755.1 | 5634.0 | 5528.6 | 4663.2 | 4398.7 | 4214.8 | 3984.0 | 3856.2 | 3755.3 |
| 12.5° | 6851.5 | 6730.3 | 6591.4 | 6436.6 | 6302.1 | 5075.8 | 4708.0 | 4445.8 | 4129.7 | 3959.3 | 3818.1 |
| 15° | 7871.5 | 7658.5 | 7490.3 | 7310.9 | 7154.0 | 5569.0 | 5069.0 | 4705.9 | 4284.3 | 4053.4 | 3865.0 |
| 17.5° | 8819.7 | 8595.6 | 8367.0 | 8210.0 | 8028.4 | 6122.8 | 5432.2 | 4970.4 | 4412.1 | 4114.0 | 3874.1 |
| 20° | 9745.7 | 9501.4 | 9304.0 | 9093.4 | 8902.7 | 6696.7 | 5820.1 | 5203.5 | 4495.1 | 4116.3 | 3818.1 |
| 22.5° | 10561.8 | 10409.3 | 10189.7 | 9960.9 | 9768.2 | 7270.6 | 6183.3 | 5400.8 | 4526.5 | 4064.7 | 3719.4 |
| 25° | 11490.0 | 11328.5 | 11059.6 | 10866.6 | 10651.5 | 7855.8 | 6539.8 | 5553.3 | 4508.6 | 3968.3 | 3566.9 |
| 27.5° | 12481.0 | 12301.6 | 12025.8 | 11824.0 | 11563.9 | 8463.3 | 6867.1 | 5663.2 | 4441.3 | 3811.2 | 3363.0 |
| 30° | 13514.5 | 13350.8 | 13079.5 | 12875.4 | 12613.2 | 9106.7 | 7232.6 | 5737.1 | 4306.7 | 3593.8 | 3125.3 |
| 32.5° | 14624.1 | 14487.4 | 14218.5 | 14005.5 | 13725.2 | 9804.0 | 7573.3 | 5759.6 | 4102.7 | 3336.0 | 2874.1 |
| 35° | 15677.8 | 15583.7 | 15357.3 | 15157.8 | 14866.3 | 10463.2 | 7934.2 | 5748.3 | 3860.6 | 3053.5 | 2645.5 |
| 37.5° | 16863.9 | 16807.8 | 16695.8 | 16442.4 | 16085.9 | 11357.7 | 8367.0 | 5701.3 | 3564.7 | 2773.2 | 2470.6 |
| 40° | 18128.3 | 18132.8 | 18011.7 | 17839.1 | 17507.3 | 12442.9 | 8882.6 | 5609.3 | 3241.9 | 2526.7 | 2311.5 |
| 42.5° | 19466.8 | 19536.2 | 19477.9 | 19354.7 | 19036.3 | 13536.9 | 9499.0 | 5497.3 | 2927.9 | 2286.7 | 2154.6 |
| 45° | 21000.2 | 21085.5 | 21175.1 | 20993.6 | 20684.2 | 14980.7 | 10310.7 | 5351.6 | 2589.5 | 2087.2 | 2046.9 |
| 47.5° | 22769.2 | 22903.6 | 22984.5 | 22986.6 | 22677.3 | 16769.7 | 11629.0 | 5264.1 | 2289.1 | 1952.7 | 1995.3 |
| 50° | 26502.1 | 26544.6 | 26735.1 | 27067.0 | 26829.4 | 20910.7 | 13931.5 | 5210.3 | 2085.0 | 1869.8 | 1957.1 |
| 52.5° | 31880.5 | 32349.0 | 32678.6 | 32656.2 | 32333.4 | 23540.4 | 15200.4 | 4932.2 | 1964.0 | 1838.4 | 1939.4 |
| 55° | 34070.8 | 34656.0 | 35265.8 | 35427.1 | 35176.1 | 25784.6 | 16399.7 | 4654.3 | 1905.7 | 1860.7 | 1946.0 |
| 57.5° | 36989.9 | 37976.2 | 38812.4 | 39164.6 | 38801.3 | 28656.6 | 17978.1 | 4508.6 | 1887.7 | 1921.4 | 1988.6 |
| 60° | 40399.8 | 41619.5 | 42718.0 | 43350.2 | 43350.2 | 31956.7 | 19614.9 | 4448.0 | 1863.1 | 2011.0 | 2060.4 |
| 62.5° | 42590.3 | 44381.5 | 46040.6 | 46966.4 | 46939.6 | 34254.7 | 20341.2 | 4241.7 | 1807.0 | 2073.7 | 2158.9 |
| 65° | 42599.2 | 44729.0 | 46843.1 | 47883.4 | 47937.2 | 33972.2 | 19141.8 | 3746.3 | 1703.8 | 2082.8 | 2257.6 |
| 67.5° | 39048.0 | 41319.0 | 43782.9 | 44946.4 | 45215.5 | 31272.9 | 16570.2 | 3080.5 | 1535.7 | 1993.1 | 2293.6 |
| 70° | 32978.9 | 35196.3 | 37711.7 | 38855.1 | 39332.6 | 26659.0 | 13346.3 | 2374.2 | 1320.5 | 1795.8 | 2219.5 |
| 72.5° | 25981.9 | 28156.6 | 29907.5 | 30743.8 | 31115.9 | 20377.1 | 9718.9 | 1793.6 | 1082.8 | 1513.4 | 2020.0 |
| 75° | 18395.1 | 20027.4 | 20957.6 | 21143.8 | 21202.1 | 12283.7 | 5905.3 | 1334.0 | 892.2 | 1177.0 | 1706.2 |
| 77.5° | 10382.4 | 11081.9 | 11005.8 | 11088.7 | 10398.2 | 4741.8 | 2571.5 | 955.1 | 735.4 | 894.5 | 1322.8 |
| 80° | 4053.4 | 4178.9 | 3925.7 | 3847.3 | 3528.8 | 1764.5 | 1134.4 | 665.9 | 587.4 | 677.1 | 926.0 |
| 82.5° | 1786.8 | 1845.1 | 1791.3 | 1804.8 | 1726.4 | 910.3 | 679.3 | 482.0 | 448.3 | 495.4 | 614.4 |
| 85° | 984.3 | 1002.1 | 997.7 | 1026.9 | 984.3 | 363.2 | 322.9 | 295.9 | 313.9 | 336.2 | 394.5 |
| 87.5° | 479.8 | 484.2 | 468.6 | 493.2 | 477.4 | 183.9 | 159.2 | 168.2 | 183.9 | 188.4 | 188.4 |
| 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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