

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: P192215

Luminaire Tested: **GLEON-AF-07-LED-E1-T2R-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192215
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-07-LED-E1-T2R-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43863 lumens
Efficiency: N/A
Efficacy: 112.2 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

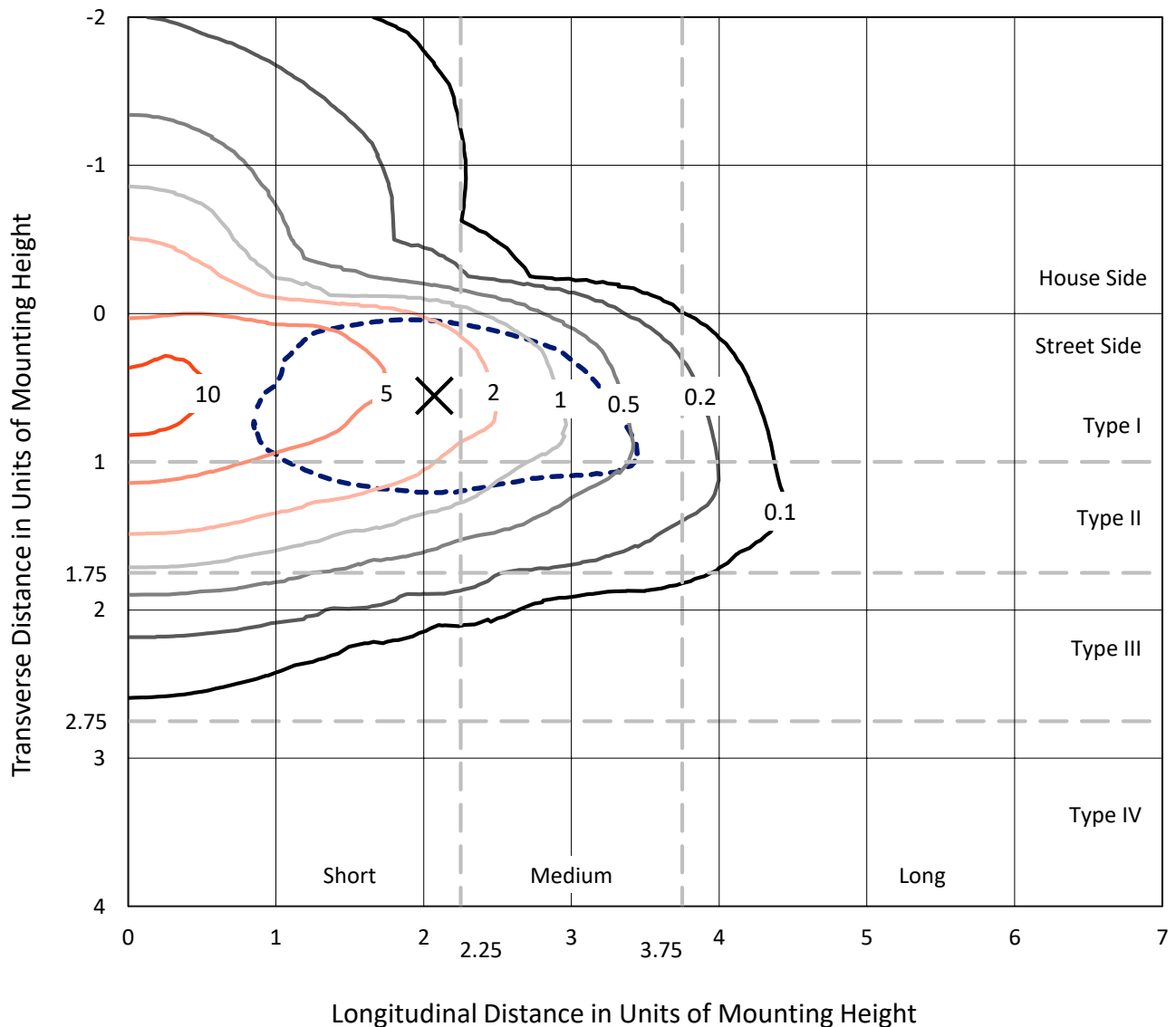
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P192215
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Iso-Footcandle Lines of Horizontal Illumination

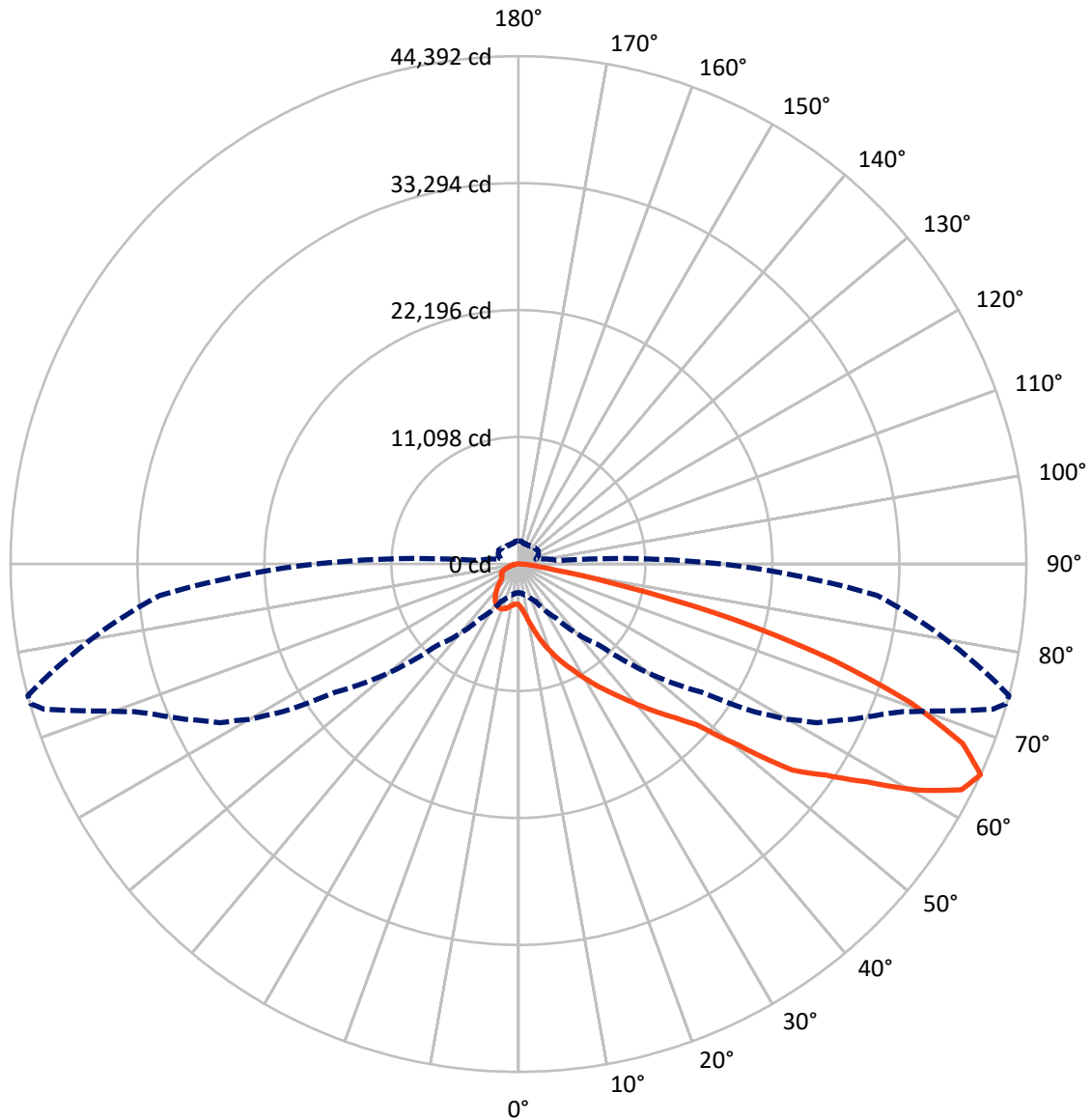
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 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 | 6762.6 | 0.0 | 6762.6 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 37100.4 | 0.0 | 37100.4 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 43863.0 | 0.0 | 43863.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 440.6 | 1.0 |
| 10°-20° | 1721.6 | 3.9 |
| 20°-30° | 3532.1 | 8.1 |
| 30°-40° | 5942.5 | 13.5 |
| 40°-50° | 8210.9 | 18.7 |
| 50°-60° | 10249.7 | 23.4 |
| 60°-70° | 9223.6 | 21.0 |
| 70°-80° | 3866.5 | 8.8 |
| 80°-90° | 675.5 | 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° | 43863.0 | 100.0 |
| 0°-180° | 43863.0 | 100.0 |

Coefficient of Utilization



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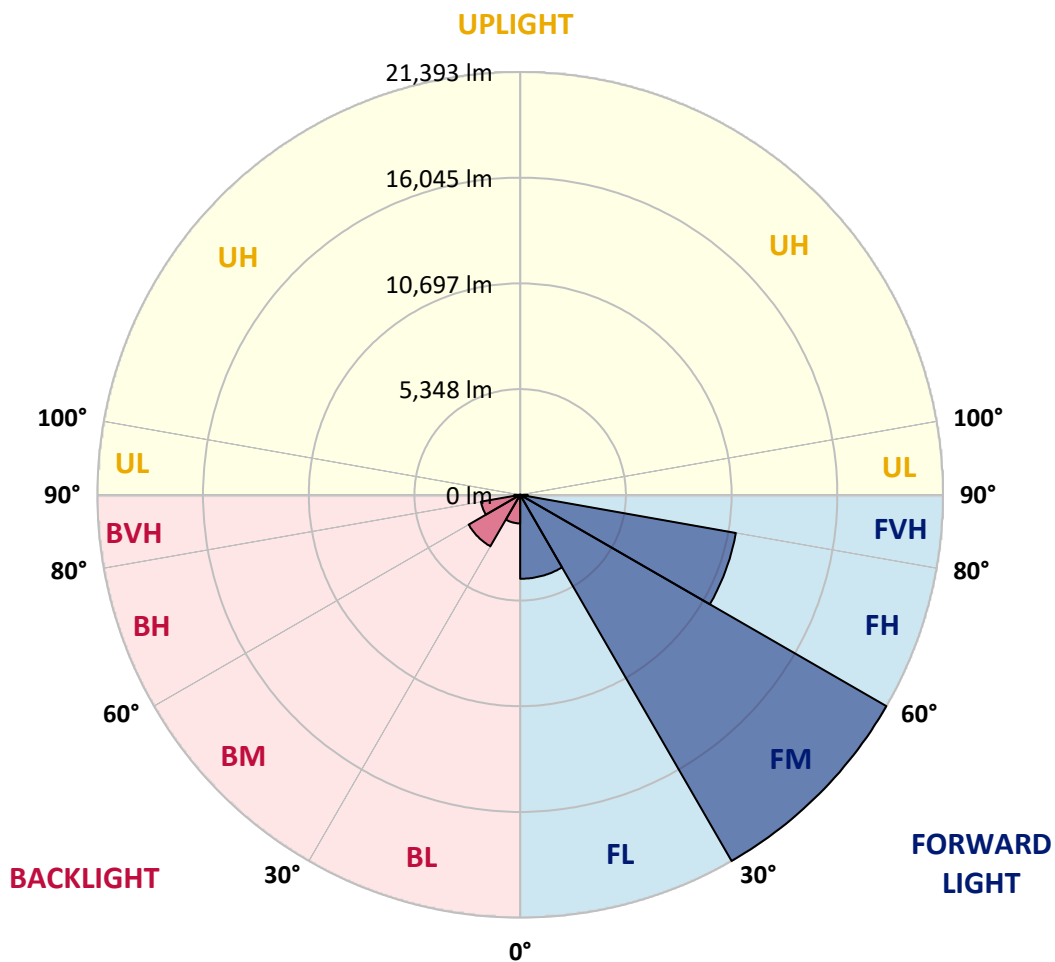
CATALOG NUMBER: GLEON-AF-07-LED-E1-T2R-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 4248.0 | 9.7 | | | |
| FM | (30°-60°) | 21393.0 | 48.8 | | | |
| FH | (60°-80°) | 11079.6 | 25.3 | | | G4/12000 |
| FVH | (80°-90°) | 379.7 | 0.9 | | | G3/500 |
| BL | (0°-30°) | 1446.3 | 3.3 | B3/2500 | | |
| BM | (30°-60°) | 3010.1 | 6.9 | B3/5000 | | |
| BH | (60°-80°) | 2010.4 | 4.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 295.8 | 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° | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 |
| 2.5° | 4526.0 | 4476.1 | 4488.6 | 4405.5 | 4303.8 | 4170.9 | 4023.5 | 4021.5 | 4023.5 | 4009.0 | 3955.0 |
| 5° | 6276.1 | 6215.9 | 6193.1 | 6006.2 | 5732.2 | 5341.9 | 4918.3 | 4872.7 | 4854.0 | 4806.2 | 4696.2 |
| 7.5° | 7552.9 | 7519.7 | 7484.4 | 7343.3 | 7094.1 | 6658.1 | 6089.3 | 5991.7 | 5898.3 | 5875.4 | 5750.9 |
| 10° | 8377.2 | 8368.9 | 8294.1 | 8256.8 | 8101.0 | 7723.2 | 7168.9 | 7075.4 | 6973.7 | 6938.4 | 6807.6 |
| 12.5° | 9029.1 | 9027.0 | 8991.7 | 9002.1 | 8867.1 | 8593.1 | 8115.6 | 8030.5 | 7955.7 | 7847.8 | 7754.3 |
| 15° | 9479.6 | 9481.7 | 9533.6 | 9591.7 | 9570.9 | 9386.2 | 8937.7 | 8900.4 | 8836.0 | 8761.3 | 8651.2 |
| 17.5° | 9849.1 | 9859.5 | 9913.5 | 10019.4 | 10133.6 | 10119.0 | 9764.0 | 9732.9 | 9676.8 | 9575.1 | 9517.0 |
| 20° | 10683.7 | 10723.2 | 10619.4 | 10619.4 | 10631.8 | 10687.9 | 10517.7 | 10492.7 | 10413.8 | 10359.9 | 10314.2 |
| 22.5° | 12093.4 | 12139.1 | 11904.5 | 11665.8 | 11431.1 | 11260.9 | 11090.7 | 11121.8 | 11067.8 | 11030.5 | 11003.5 |
| 25° | 13924.6 | 13959.9 | 13579.9 | 13177.2 | 12699.7 | 12076.8 | 11655.4 | 11636.7 | 11607.6 | 11584.8 | 11572.3 |
| 27.5° | 15647.8 | 15662.3 | 15303.1 | 14713.5 | 14159.2 | 13264.4 | 12228.4 | 12205.5 | 12170.2 | 12126.7 | 12089.3 |
| 30° | 17121.8 | 17117.7 | 16748.1 | 16185.5 | 15591.7 | 14601.4 | 13098.3 | 13027.7 | 12923.9 | 12805.5 | 12714.2 |
| 32.5° | 18398.6 | 18392.4 | 17987.6 | 17404.2 | 16781.3 | 15926.0 | 14290.0 | 14144.6 | 13982.7 | 13752.3 | 13613.2 |
| 35° | 19403.5 | 19399.3 | 19017.3 | 18409.0 | 17694.8 | 17173.7 | 15656.1 | 15477.5 | 15272.0 | 14962.6 | 14748.8 |
| 37.5° | 19783.4 | 19783.4 | 19569.6 | 19154.3 | 18523.2 | 18166.1 | 17173.7 | 16957.8 | 16737.7 | 16386.9 | 16146.0 |
| 40° | 19561.3 | 19565.4 | 19611.1 | 19534.3 | 19227.0 | 18953.0 | 18589.6 | 18460.9 | 18272.0 | 17956.4 | 17705.2 |
| 42.5° | 18815.9 | 18838.8 | 19141.9 | 19513.5 | 19667.1 | 19623.5 | 19845.7 | 19787.6 | 19654.7 | 19411.8 | 19212.5 |
| 45° | 17871.3 | 17941.9 | 18274.1 | 18975.8 | 19789.6 | 20202.8 | 20898.3 | 20904.5 | 20879.6 | 20748.8 | 20595.2 |
| 47.5° | 16573.7 | 16673.4 | 17111.4 | 18060.2 | 19503.1 | 20765.4 | 21967.5 | 22023.5 | 22075.4 | 21990.3 | 21919.7 |
| 50° | 14850.5 | 14968.9 | 15624.9 | 16883.1 | 18919.7 | 21348.8 | 23987.6 | 24240.8 | 24477.5 | 24448.5 | 24496.2 |
| 52.5° | 13004.9 | 13144.0 | 13947.4 | 15348.8 | 17917.0 | 21483.7 | 25278.9 | 25692.1 | 26105.2 | 26443.6 | 26802.8 |
| 55° | 11339.8 | 11265.1 | 12068.5 | 13544.6 | 16268.5 | 20875.4 | 26439.5 | 26937.7 | 27398.6 | 27813.9 | 28241.5 |
| 57.5° | 9083.0 | 9205.5 | 10011.1 | 11470.6 | 14086.5 | 19158.5 | 27238.8 | 27967.5 | 28629.8 | 29317.0 | 29923.2 |
| 60° | 6639.4 | 6761.9 | 7636.0 | 9118.3 | 11717.7 | 16555.0 | 26628.4 | 27732.9 | 28793.8 | 29846.4 | 30668.5 |
| 62.5° | 4009.0 | 4100.3 | 4870.6 | 6282.4 | 9035.3 | 13467.8 | 23908.7 | 25357.8 | 26919.0 | 28177.2 | 29437.4 |
| 65° | 2495.5 | 2547.4 | 2831.8 | 3608.3 | 5802.8 | 10054.7 | 19534.3 | 21114.2 | 22795.9 | 24392.4 | 25702.4 |
| 67.5° | 2042.9 | 2061.6 | 2113.5 | 2279.6 | 3186.9 | 6556.4 | 14539.1 | 15938.4 | 17456.1 | 19000.7 | 20458.1 |
| 70° | 1837.4 | 1824.9 | 1824.9 | 1835.3 | 2042.9 | 3525.3 | 9519.0 | 10430.5 | 11694.8 | 13038.1 | 14370.9 |
| 72.5° | 1658.8 | 1646.4 | 1623.5 | 1592.4 | 1667.1 | 2150.9 | 4920.4 | 5607.6 | 6519.0 | 7712.8 | 8989.6 |
| 75° | 1490.7 | 1474.0 | 1447.1 | 1407.6 | 1459.5 | 1623.5 | 2362.6 | 2651.2 | 3095.5 | 3730.8 | 4442.9 |
| 77.5° | 1316.3 | 1295.5 | 1270.6 | 1241.5 | 1308.0 | 1262.3 | 1384.8 | 1488.6 | 1658.8 | 1862.3 | 2130.1 |
| 80° | 1119.0 | 1100.3 | 1092.0 | 1077.5 | 1156.4 | 961.2 | 977.9 | 1042.2 | 1141.9 | 1251.9 | 1376.5 |
| 82.5° | 876.1 | 876.1 | 909.3 | 915.6 | 1002.8 | 691.3 | 730.8 | 786.9 | 838.8 | 896.9 | 955.0 |
| 85° | 577.2 | 581.3 | 693.4 | 737.0 | 791.0 | 465.1 | 548.1 | 566.8 | 608.3 | 641.5 | 666.4 |
| 87.5° | 180.6 | 195.2 | 423.5 | 469.2 | 454.7 | 263.7 | 336.3 | 344.6 | 373.7 | 396.5 | 417.3 |
| 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-07-LED-E1-T2R-7050

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 |
| 2.5° | 3955.0 | 3930.1 | 3907.3 | 3905.2 | 3888.6 | 3865.7 | 3874.1 | 3838.8 | 3840.8 | 3822.1 | 3801.4 |
| 5° | 4650.5 | 4633.9 | 4550.9 | 4528.0 | 4465.7 | 4426.3 | 4420.1 | 4337.0 | 4326.6 | 4278.9 | 4227.0 |
| 7.5° | 5651.2 | 5597.2 | 5481.0 | 5424.9 | 5319.0 | 5240.1 | 5202.8 | 5092.7 | 5038.8 | 4914.2 | 4858.1 |
| 10° | 6699.7 | 6631.1 | 6487.9 | 6409.0 | 6307.3 | 6180.6 | 6112.1 | 5952.3 | 5890.0 | 5775.8 | 5638.8 |
| 12.5° | 7671.3 | 7602.8 | 7455.4 | 7395.2 | 7260.2 | 7125.3 | 7050.5 | 6869.9 | 6788.9 | 6606.2 | 6498.3 |
| 15° | 8570.2 | 8501.7 | 8373.0 | 8310.7 | 8175.8 | 8065.7 | 7966.1 | 7787.5 | 7692.0 | 7521.8 | 7380.6 |
| 17.5° | 9442.2 | 9369.6 | 9257.4 | 9201.4 | 9070.6 | 8958.5 | 8850.5 | 8682.4 | 8584.8 | 8414.5 | 8287.9 |
| 20° | 10251.9 | 10197.9 | 10117.0 | 10042.2 | 9911.4 | 9809.7 | 9681.0 | 9535.6 | 9394.5 | 9269.9 | 9149.5 |
| 22.5° | 10957.8 | 10937.0 | 10849.8 | 10816.6 | 10704.5 | 10617.3 | 10505.2 | 10361.9 | 10260.2 | 10102.4 | 9990.3 |
| 25° | 11566.1 | 11559.9 | 11518.3 | 11508.0 | 11429.1 | 11346.0 | 11321.1 | 11202.8 | 11109.3 | 10970.2 | 10854.0 |
| 27.5° | 12089.3 | 12095.5 | 12085.1 | 12114.2 | 12093.4 | 12056.1 | 12058.1 | 12018.7 | 11964.7 | 11848.4 | 11746.7 |
| 30° | 12670.6 | 12637.4 | 12656.1 | 12697.6 | 12710.0 | 12714.2 | 12782.7 | 12805.5 | 12801.4 | 12724.6 | 12674.7 |
| 32.5° | 13492.7 | 13413.8 | 13341.2 | 13335.0 | 13376.5 | 13393.1 | 13509.3 | 13569.6 | 13621.5 | 13640.1 | 13648.5 |
| 35° | 14541.2 | 14383.4 | 14231.8 | 14150.9 | 14080.3 | 14099.0 | 14182.0 | 14279.6 | 14393.8 | 14472.7 | 14566.1 |
| 37.5° | 15861.6 | 15668.5 | 15400.7 | 15209.7 | 15161.9 | 15058.1 | 15112.1 | 15188.9 | 15301.0 | 15423.5 | 15585.5 |
| 40° | 17462.3 | 17169.6 | 16868.5 | 16615.2 | 16478.2 | 16287.2 | 16285.1 | 16270.6 | 16339.1 | 16453.3 | 16681.7 |
| 42.5° | 19002.8 | 18743.3 | 18423.5 | 18157.8 | 17979.2 | 17723.9 | 17672.0 | 17537.0 | 17568.2 | 17667.8 | 17890.0 |
| 45° | 20445.7 | 20231.8 | 20036.7 | 19729.4 | 19577.9 | 19301.7 | 19214.5 | 19054.7 | 18965.4 | 19011.1 | 19233.2 |
| 47.5° | 21842.9 | 21705.9 | 21502.4 | 21303.1 | 21186.9 | 20939.8 | 20827.7 | 20713.5 | 20599.3 | 20595.2 | 20827.7 |
| 50° | 24566.8 | 24494.1 | 24253.3 | 24045.7 | 24101.7 | 23798.6 | 23817.3 | 23510.0 | 23649.1 | 23665.8 | 24153.6 |
| 52.5° | 27126.7 | 27379.9 | 27558.5 | 27776.5 | 27917.7 | 27944.7 | 28038.1 | 28177.2 | 28345.3 | 28677.5 | 29130.1 |
| 55° | 28592.4 | 28910.1 | 29094.8 | 29260.9 | 29535.0 | 29593.1 | 29748.8 | 29933.6 | 30081.0 | 30454.7 | 30838.8 |
| 57.5° | 30334.3 | 30923.9 | 31210.4 | 31474.1 | 31843.6 | 31984.8 | 32244.3 | 32445.7 | 32636.7 | 33078.9 | 33544.0 |
| 60° | 31407.6 | 32126.0 | 32709.4 | 33126.7 | 33589.6 | 33921.8 | 34314.2 | 34629.8 | 35078.2 | 35607.6 | 36301.1 |
| 62.5° | 30554.3 | 31609.0 | 32383.4 | 33099.7 | 33728.7 | 34364.0 | 34926.7 | 35516.3 | 36197.3 | 36998.6 | 38074.1 |
| 65° | 27155.7 | 28229.1 | 29555.7 | 30299.0 | 31131.5 | 32111.4 | 32966.8 | 33921.8 | 34849.8 | 36016.6 | 37606.9 |
| 67.5° | 21861.6 | 23109.4 | 24600.0 | 25349.5 | 26306.6 | 27400.7 | 28359.9 | 29526.7 | 30610.4 | 32024.2 | 33990.3 |
| 70° | 15757.8 | 17370.9 | 18624.9 | 19407.6 | 20524.6 | 21651.9 | 22577.9 | 23935.7 | 24832.5 | 26281.7 | 28314.2 |
| 72.5° | 9977.9 | 11250.5 | 12786.9 | 13773.0 | 14765.4 | 15907.3 | 16854.0 | 18024.9 | 18861.6 | 20182.0 | 22023.5 |
| 75° | 5364.7 | 6303.1 | 7652.6 | 8588.9 | 9651.9 | 10627.7 | 11736.3 | 12521.1 | 13139.8 | 14184.1 | 15678.9 |
| 77.5° | 2514.2 | 3085.1 | 3768.2 | 4488.6 | 5209.0 | 5960.6 | 6691.4 | 7326.6 | 7592.4 | 8190.3 | 9072.7 |
| 80° | 1526.0 | 1710.7 | 1910.0 | 2132.2 | 2433.2 | 2676.1 | 2997.9 | 3230.5 | 3247.1 | 3436.0 | 3705.9 |
| 82.5° | 1019.4 | 1087.9 | 1148.1 | 1204.2 | 1281.0 | 1341.2 | 1409.7 | 1490.7 | 1523.9 | 1567.5 | 1654.7 |
| 85° | 695.5 | 728.7 | 741.2 | 776.5 | 768.2 | 788.9 | 815.9 | 842.9 | 857.4 | 855.4 | 894.8 |
| 87.5° | 427.7 | 444.3 | 452.6 | 460.9 | 454.7 | 446.4 | 458.8 | 473.4 | 477.5 | 465.1 | 469.2 |
| 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° | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 |
| 2.5° | 3805.5 | 3786.9 | 3768.2 | 3755.7 | 3751.6 | 3641.5 | 3593.8 | 3562.6 | 3496.2 | 3442.2 | 3398.6 |
| 5° | 4197.9 | 4158.5 | 4127.3 | 4090.0 | 4069.2 | 3791.0 | 3689.3 | 3618.7 | 3502.4 | 3433.9 | 3371.6 |
| 7.5° | 4829.1 | 4719.0 | 4654.7 | 4582.0 | 4519.7 | 4017.3 | 3849.1 | 3739.1 | 3577.2 | 3485.8 | 3415.2 |
| 10° | 5545.3 | 5431.1 | 5329.4 | 5217.3 | 5119.7 | 4318.3 | 4073.4 | 3903.1 | 3689.3 | 3570.9 | 3477.5 |
| 12.5° | 6344.6 | 6232.5 | 6103.8 | 5960.6 | 5836.0 | 4700.3 | 4359.9 | 4117.0 | 3824.2 | 3666.4 | 3535.6 |
| 15° | 7289.3 | 7092.0 | 6936.3 | 6770.2 | 6624.9 | 5157.1 | 4694.1 | 4357.8 | 3967.5 | 3753.6 | 3579.2 |
| 17.5° | 8167.5 | 7959.9 | 7748.1 | 7602.8 | 7434.6 | 5669.9 | 5030.5 | 4602.8 | 4085.8 | 3809.7 | 3587.5 |
| 20° | 9024.9 | 8798.6 | 8615.9 | 8420.8 | 8244.3 | 6201.4 | 5389.6 | 4818.7 | 4162.6 | 3811.8 | 3535.6 |
| 22.5° | 9780.6 | 9639.5 | 9436.0 | 9224.2 | 9045.7 | 6732.9 | 5726.0 | 5001.4 | 4191.7 | 3764.0 | 3444.3 |
| 25° | 10640.1 | 10490.7 | 10241.5 | 10063.0 | 9863.7 | 7274.7 | 6056.1 | 5142.6 | 4175.1 | 3674.7 | 3303.1 |
| 27.5° | 11557.8 | 11391.7 | 11136.3 | 10949.5 | 10708.7 | 7837.4 | 6359.2 | 5244.3 | 4112.8 | 3529.4 | 3114.2 |
| 30° | 12514.9 | 12363.3 | 12112.1 | 11923.2 | 11680.3 | 8433.2 | 6697.6 | 5312.8 | 3988.2 | 3328.0 | 2894.1 |
| 32.5° | 13542.6 | 13415.9 | 13166.8 | 12969.6 | 12710.0 | 9078.9 | 7013.2 | 5333.6 | 3799.3 | 3089.3 | 2661.6 |
| 35° | 14518.3 | 14431.1 | 14221.5 | 14036.7 | 13766.8 | 9689.3 | 7347.4 | 5323.2 | 3575.1 | 2827.7 | 2449.8 |
| 37.5° | 15616.6 | 15564.7 | 15460.9 | 15226.3 | 14896.2 | 10517.7 | 7748.1 | 5279.6 | 3301.0 | 2568.2 | 2287.9 |
| 40° | 16787.6 | 16791.7 | 16679.6 | 16519.7 | 16212.5 | 11522.5 | 8225.6 | 5194.5 | 3002.1 | 2339.8 | 2140.5 |
| 42.5° | 18027.0 | 18091.4 | 18037.4 | 17923.2 | 17628.4 | 12535.6 | 8796.5 | 5090.7 | 2711.4 | 2117.6 | 1995.2 |
| 45° | 19447.1 | 19526.0 | 19609.0 | 19440.8 | 19154.3 | 13872.7 | 9548.1 | 4955.7 | 2397.9 | 1932.9 | 1895.5 |
| 47.5° | 21085.1 | 21209.7 | 21284.4 | 21286.5 | 21000.0 | 15529.4 | 10768.9 | 4874.7 | 2119.7 | 1808.3 | 1847.8 |
| 50° | 24541.9 | 24581.3 | 24757.8 | 25065.1 | 24845.0 | 19364.0 | 12901.0 | 4824.9 | 1930.8 | 1731.5 | 1812.5 |
| 52.5° | 29522.5 | 29956.4 | 30261.6 | 30240.8 | 29941.9 | 21799.3 | 14076.1 | 4567.5 | 1818.7 | 1702.4 | 1795.8 |
| 55° | 31550.9 | 32092.8 | 32657.5 | 32806.9 | 32574.4 | 23877.5 | 15186.9 | 4310.0 | 1764.7 | 1723.2 | 1802.1 |
| 57.5° | 34254.0 | 35167.5 | 35941.9 | 36267.8 | 35931.5 | 26537.0 | 16648.5 | 4175.1 | 1748.1 | 1779.2 | 1841.5 |
| 60° | 37411.8 | 38541.2 | 39558.5 | 40144.0 | 40144.0 | 29593.1 | 18164.0 | 4119.0 | 1725.3 | 1862.3 | 1908.0 |
| 62.5° | 39440.2 | 41099.0 | 42635.3 | 43492.8 | 43467.8 | 31721.1 | 18836.7 | 3928.0 | 1673.4 | 1920.4 | 1999.3 |
| 65° | 39448.5 | 41420.8 | 43378.6 | 44341.9 | 44391.7 | 31459.5 | 17726.0 | 3469.2 | 1577.9 | 1928.7 | 2090.7 |
| 67.5° | 36159.9 | 38263.0 | 40544.7 | 41622.2 | 41871.3 | 28959.9 | 15344.6 | 2852.6 | 1422.1 | 1845.7 | 2123.9 |
| 70° | 30539.8 | 32593.1 | 34922.5 | 35981.3 | 36423.5 | 24687.2 | 12359.2 | 2198.6 | 1222.8 | 1663.0 | 2055.4 |
| 72.5° | 24060.2 | 26074.1 | 27695.5 | 28469.9 | 28814.5 | 18869.9 | 9000.0 | 1660.9 | 1002.8 | 1401.4 | 1870.6 |
| 75° | 17034.6 | 18546.0 | 19407.6 | 19579.9 | 19633.9 | 11375.1 | 5468.5 | 1235.3 | 826.3 | 1090.0 | 1579.9 |
| 77.5° | 9614.5 | 10262.3 | 10191.7 | 10268.5 | 9629.1 | 4391.0 | 2381.3 | 884.4 | 681.0 | 828.4 | 1224.9 |
| 80° | 3753.6 | 3869.9 | 3635.3 | 3562.6 | 3267.8 | 1633.9 | 1050.5 | 616.6 | 543.9 | 627.0 | 857.4 |
| 82.5° | 1654.7 | 1708.7 | 1658.8 | 1671.3 | 1598.6 | 842.9 | 629.1 | 446.4 | 415.2 | 458.8 | 568.9 |
| 85° | 911.4 | 928.0 | 923.9 | 950.9 | 911.4 | 336.3 | 299.0 | 274.0 | 290.7 | 311.4 | 365.4 |
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