

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: P192086

Luminaire Tested: **GLEON-AF-08-LED-E1-SLL-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192086
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-08-LED-E1-SLL-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 800mA 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: 33872 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

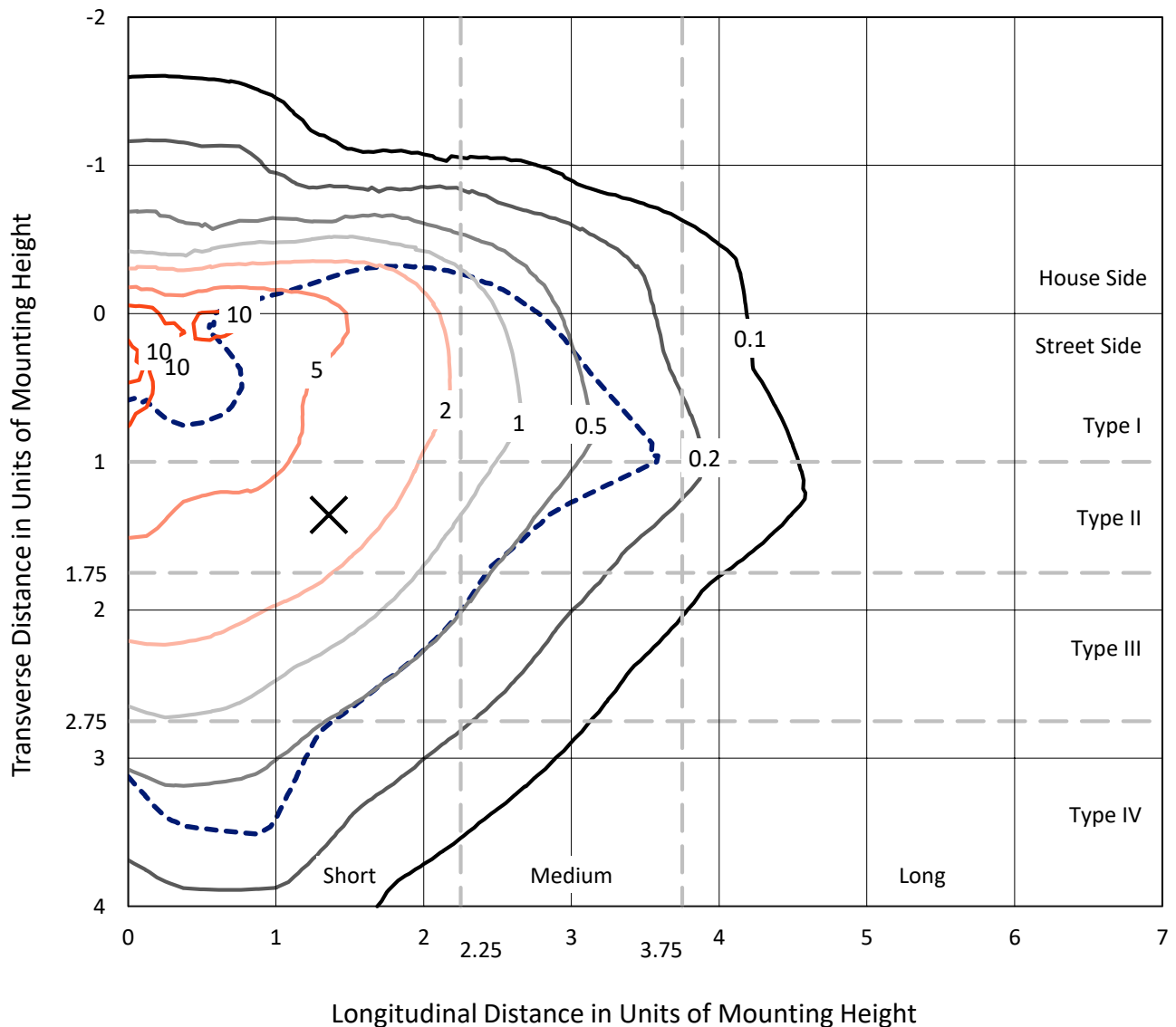
Input Watts (W): 334
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P192086
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Iso-Footcandle Lines of Horizontal Illumination

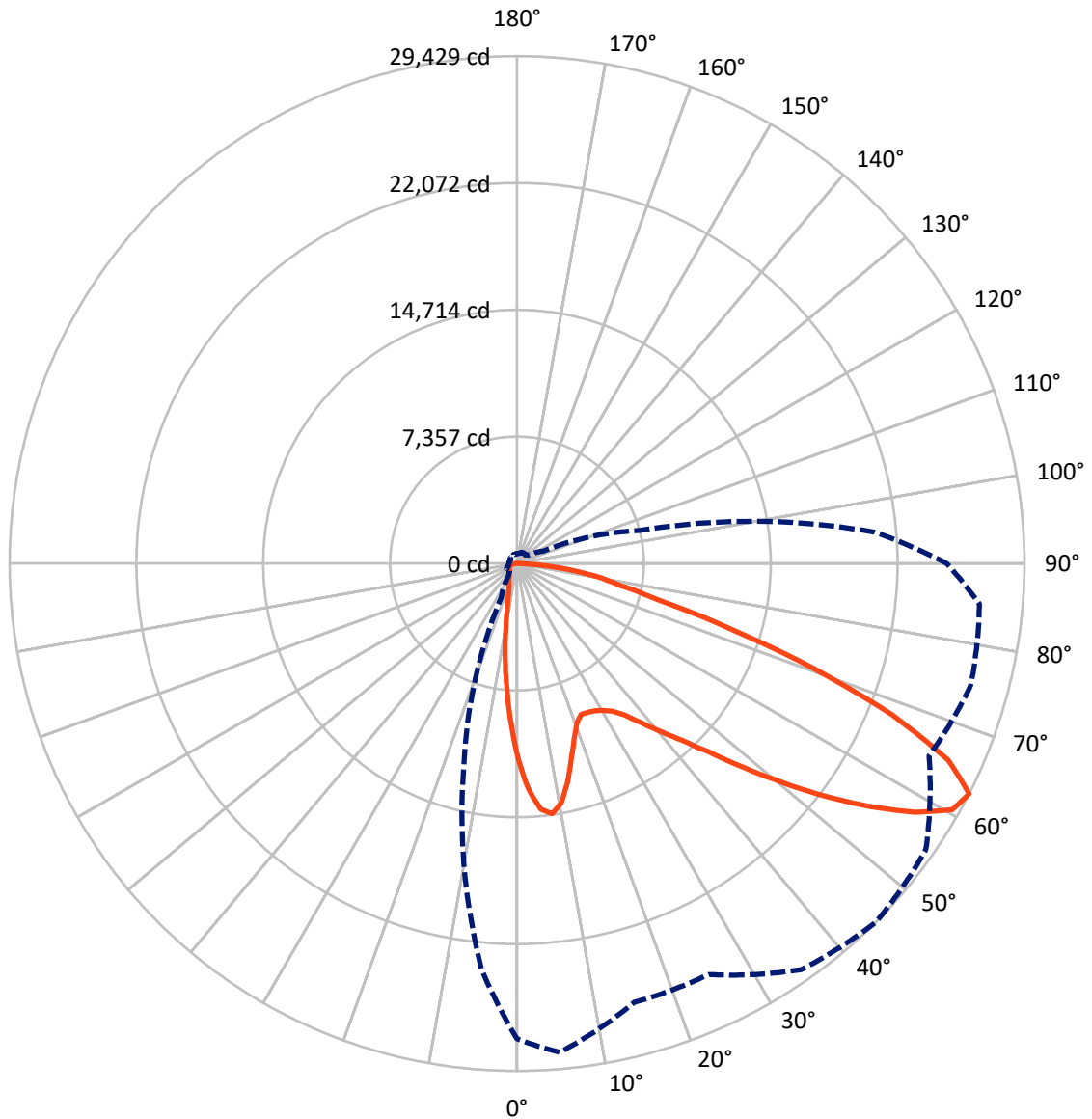
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15 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 | 5605.3 | 0.0 | 5605.3 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 28266.7 | 0.0 | 28266.7 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 33872.0 | 0.0 | 33872.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 833.1 | 2.5 |
| 10°-20° | 1527.6 | 4.5 |
| 20°-30° | 2227.2 | 6.6 |
| 30°-40° | 3430.3 | 10.1 |
| 40°-50° | 5048.5 | 14.9 |
| 50°-60° | 7405.0 | 21.9 |
| 60°-70° | 8277.7 | 24.4 |
| 70°-80° | 4052.7 | 12.0 |
| 80°-90° | 1070.0 | 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° | 33872.0 | 100.0 |
| 0°-180° | 33872.0 | 100.0 |



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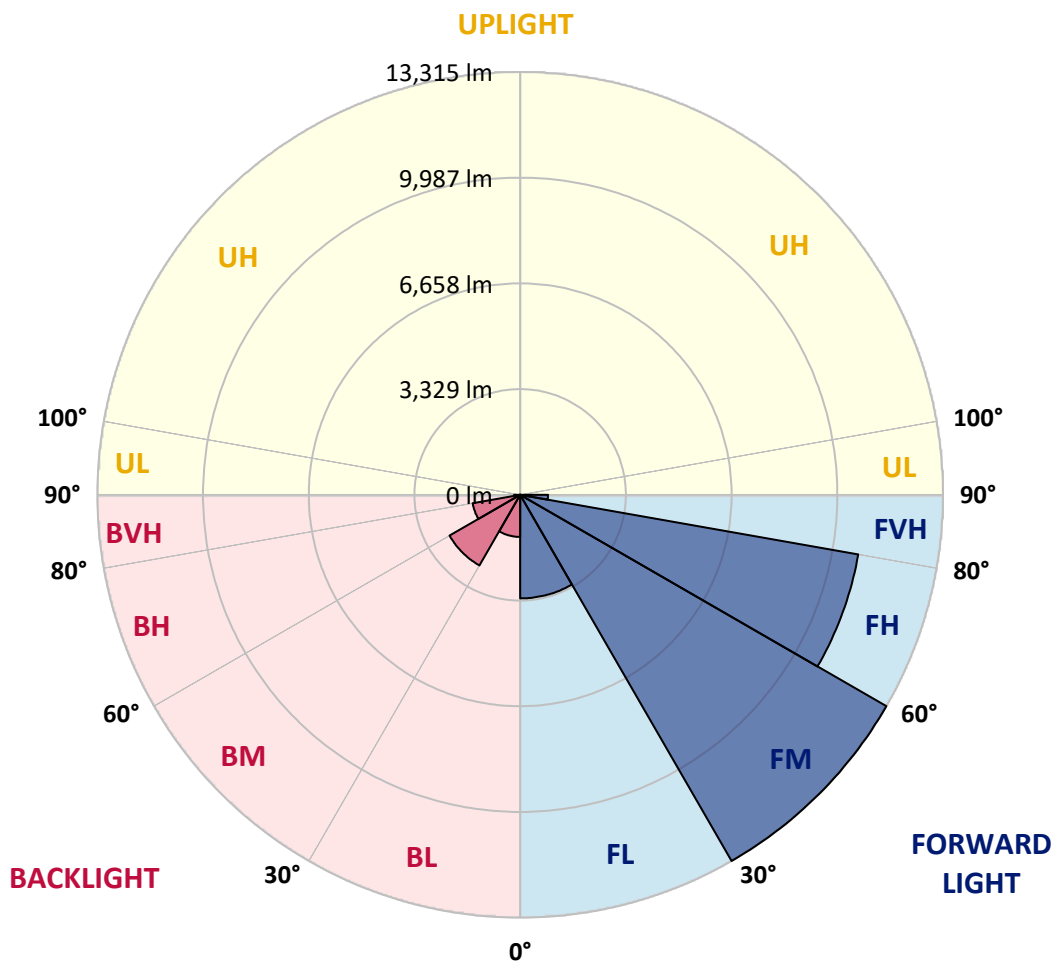
CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-7050-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 3261.8 | 9.6 | | | |
| FM | (30°-60°) | 13315.4 | 39.3 | | | |
| FH | (60°-80°) | 10810.8 | 31.9 | | | G4/12000 |
| FVH | (80°-90°) | 878.7 | 2.6 | | | G5 |
| BL | (0°-30°) | 1326.1 | 3.9 | B3/2500 | | |
| BM | (30°-60°) | 2568.3 | 7.6 | B3/5000 | | |
| BH | (60°-80°) | 1519.6 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 191.3 | 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





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CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-7050-800

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 |
| 2.5° | 11890.7 | 12080.6 | 12451.1 | 12728.6 | 13065.6 | 13143.8 | 13251.8 | 13145.6 | 12957.6 | 12708.1 | 12626.1 |
| 5° | 11181.2 | 11587.2 | 12486.5 | 13277.8 | 13981.7 | 14309.4 | 14400.6 | 14130.6 | 13585.1 | 12868.2 | 12430.6 |
| 7.5° | 10043.6 | 10620.8 | 11838.5 | 13004.1 | 14041.3 | 14653.9 | 14639.0 | 14011.5 | 13007.9 | 11840.4 | 11138.4 |
| 10° | 9062.3 | 9721.4 | 11117.9 | 12421.3 | 13521.8 | 14115.7 | 13886.7 | 13084.2 | 11886.9 | 10542.6 | 9781.0 |
| 12.5° | 8513.0 | 9159.1 | 10576.1 | 11885.1 | 12804.9 | 13009.7 | 12834.7 | 12048.9 | 10920.6 | 9561.3 | 8894.7 |
| 15° | 8418.1 | 9127.5 | 10360.1 | 11425.2 | 11940.9 | 11762.2 | 11553.6 | 11201.7 | 10404.8 | 9244.8 | 8550.3 |
| 17.5° | 8829.6 | 9611.6 | 10607.8 | 11104.9 | 11017.4 | 10706.4 | 10646.9 | 10686.0 | 10494.2 | 9596.7 | 8796.0 |
| 20° | 9619.0 | 10557.5 | 11198.0 | 10954.1 | 10315.4 | 9887.2 | 9902.1 | 10499.8 | 11067.7 | 10488.6 | 9574.3 |
| 22.5° | 10726.9 | 11797.6 | 12048.9 | 11034.1 | 10019.4 | 9511.0 | 9633.9 | 10602.2 | 11981.9 | 11792.0 | 10624.5 |
| 25° | 12160.7 | 13136.3 | 12955.7 | 11324.6 | 10049.2 | 9557.6 | 9656.3 | 10955.9 | 13061.9 | 13095.4 | 11924.2 |
| 27.5° | 13549.7 | 14454.6 | 13717.3 | 11710.1 | 10172.0 | 9667.4 | 9797.8 | 11512.7 | 14093.4 | 14510.5 | 13410.0 |
| 30° | 14633.4 | 15262.7 | 14018.9 | 12062.0 | 10414.1 | 9881.6 | 10043.6 | 12041.5 | 14562.6 | 15465.7 | 14553.3 |
| 32.5° | 15530.9 | 15983.3 | 14499.3 | 12497.7 | 10859.1 | 10218.6 | 10503.5 | 12683.9 | 15238.5 | 16374.3 | 15672.4 |
| 35° | 16677.8 | 16806.3 | 15097.0 | 12983.7 | 11546.2 | 10805.1 | 11158.9 | 13313.2 | 15882.8 | 17292.3 | 16774.7 |
| 37.5° | 18022.2 | 17856.5 | 15661.2 | 13648.4 | 12434.4 | 11723.1 | 12015.4 | 14004.0 | 16413.4 | 18333.1 | 17901.2 |
| 40° | 19351.7 | 18953.2 | 16368.7 | 14679.9 | 13730.3 | 12804.9 | 13151.2 | 14741.4 | 16908.7 | 19375.9 | 19001.6 |
| 42.5° | 20481.9 | 19891.6 | 17067.0 | 15813.9 | 14936.9 | 13998.4 | 14411.8 | 15484.3 | 17381.7 | 20265.9 | 19956.8 |
| 45° | 21317.9 | 20584.3 | 17731.7 | 16903.1 | 16599.6 | 15584.9 | 15780.4 | 16335.2 | 17893.7 | 21008.8 | 20742.6 |
| 47.5° | 22064.6 | 21280.7 | 18484.0 | 18001.7 | 18053.8 | 17647.9 | 17333.3 | 17325.8 | 18497.0 | 21615.8 | 21485.5 |
| 50° | 23064.5 | 22247.0 | 19292.1 | 19133.8 | 20236.1 | 19966.1 | 19271.6 | 18482.1 | 19260.4 | 22304.8 | 22289.9 |
| 52.5° | 24442.3 | 23777.6 | 20278.9 | 20353.4 | 22273.1 | 22450.0 | 21589.8 | 19871.1 | 20455.8 | 23569.1 | 23479.7 |
| 55° | 26071.6 | 25684.3 | 21623.3 | 21755.5 | 24771.9 | 24898.5 | 24043.9 | 21608.4 | 22213.5 | 25399.4 | 25151.8 |
| 57.5° | 27343.3 | 27261.4 | 23098.0 | 23438.7 | 26637.6 | 27207.4 | 26421.6 | 23619.3 | 24194.7 | 26941.1 | 26319.2 |
| 60° | 27849.8 | 28246.4 | 24667.6 | 25136.9 | 28363.7 | 28994.9 | 28306.0 | 25386.4 | 25950.5 | 27579.8 | 26239.2 |
| 62.5° | 27576.1 | 28462.4 | 26339.7 | 26300.6 | 28749.1 | 29428.7 | 28944.6 | 26369.5 | 27252.1 | 26920.6 | 24911.6 |
| 65° | 26311.8 | 27685.9 | 27309.8 | 26000.8 | 27430.8 | 27486.7 | 27330.3 | 25930.1 | 27559.3 | 24837.1 | 22345.7 |
| 67.5° | 23557.9 | 25535.3 | 26032.5 | 23431.3 | 23874.4 | 23511.3 | 23248.8 | 23524.4 | 25958.0 | 21714.5 | 18780.0 |
| 70° | 19187.8 | 22163.3 | 22401.6 | 18740.9 | 18539.8 | 18295.9 | 17772.7 | 19286.5 | 22798.2 | 17796.9 | 14901.5 |
| 72.5° | 14108.3 | 17236.4 | 17968.2 | 13745.2 | 12814.2 | 12864.5 | 12451.1 | 14534.7 | 18536.1 | 13220.1 | 11125.4 |
| 75° | 9652.6 | 12480.9 | 14058.0 | 9591.1 | 8473.9 | 8494.4 | 8442.3 | 10298.7 | 14763.7 | 9196.4 | 8325.0 |
| 77.5° | 7051.4 | 8917.1 | 10602.2 | 6448.1 | 6260.0 | 6144.6 | 6116.6 | 7205.9 | 11319.0 | 6677.1 | 6464.8 |
| 80° | 5658.6 | 6587.7 | 7122.1 | 4468.8 | 4805.8 | 4796.5 | 4641.9 | 4954.8 | 7392.1 | 4884.0 | 4835.6 |
| 82.5° | 3925.1 | 5062.7 | 5770.3 | 3502.4 | 3243.6 | 3189.6 | 3226.8 | 3690.5 | 5224.7 | 3338.5 | 3174.7 |
| 85° | 2070.5 | 3362.8 | 5714.4 | 3103.9 | 1925.3 | 1536.1 | 1910.4 | 3022.0 | 4526.5 | 1768.9 | 1549.2 |
| 87.5° | 264.4 | 972.0 | 3783.6 | 1238.2 | 759.7 | 409.6 | 906.8 | 1701.9 | 2906.6 | 361.2 | 314.7 |
| 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-SLL-7050-800

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 |
| 2.5° | 12415.7 | 12168.1 | 11844.1 | 11544.3 | 11233.4 | 10924.3 | 10520.2 | 10267.0 | 10092.0 | 10058.5 | 9984.0 |
| 5° | 12114.1 | 11291.1 | 10669.2 | 10131.1 | 9643.2 | 8954.3 | 8572.6 | 8256.1 | 8086.6 | 8069.9 | 8028.9 |
| 7.5° | 10723.2 | 9587.4 | 8747.6 | 7986.1 | 7295.3 | 6738.5 | 6124.1 | 5837.3 | 5720.0 | 5748.0 | 5775.9 |
| 10° | 9276.4 | 8006.6 | 7042.0 | 6263.7 | 5654.9 | 5185.6 | 4692.2 | 4358.9 | 4128.0 | 4081.5 | 4072.2 |
| 12.5° | 8218.8 | 6826.1 | 5889.5 | 5340.2 | 4869.1 | 4427.8 | 3904.6 | 3511.7 | 3211.9 | 3109.5 | 3040.6 |
| 15° | 7771.9 | 6248.8 | 5267.6 | 4675.5 | 4156.0 | 3595.5 | 3109.5 | 2698.0 | 2422.4 | 2333.1 | 2282.8 |
| 17.5° | 7866.9 | 6088.7 | 4839.3 | 4081.5 | 3416.8 | 2832.1 | 2219.5 | 1867.6 | 1701.9 | 1659.0 | 1659.0 |
| 20° | 8365.9 | 6058.9 | 4485.5 | 3534.1 | 2705.5 | 2027.7 | 1525.0 | 1323.9 | 1269.9 | 1264.3 | 1279.2 |
| 22.5° | 9066.0 | 6163.2 | 4221.1 | 3059.2 | 2102.2 | 1480.3 | 1187.9 | 1113.5 | 1089.3 | 1094.8 | 1111.6 |
| 25° | 10108.7 | 6515.1 | 4029.3 | 2636.6 | 1649.7 | 1212.2 | 1059.5 | 1014.8 | 1003.6 | 1018.5 | 1039.0 |
| 27.5° | 11345.1 | 6867.0 | 3910.2 | 2318.2 | 1392.8 | 1107.9 | 1007.3 | 960.8 | 968.2 | 986.9 | 1005.5 |
| 30° | 12430.6 | 7155.6 | 3722.1 | 2091.0 | 1312.7 | 1113.5 | 1007.3 | 944.0 | 936.6 | 940.3 | 945.9 |
| 32.5° | 13404.5 | 7351.1 | 3502.4 | 1875.0 | 1132.1 | 988.7 | 940.3 | 931.0 | 890.0 | 875.1 | 877.0 |
| 35° | 14244.2 | 7351.1 | 3370.2 | 1748.4 | 1014.8 | 877.0 | 798.8 | 752.2 | 731.8 | 733.6 | 754.1 |
| 37.5° | 15054.2 | 7204.0 | 3305.0 | 1677.7 | 951.5 | 834.2 | 765.3 | 724.3 | 696.4 | 690.8 | 694.5 |
| 40° | 15769.2 | 6989.9 | 3230.6 | 1647.9 | 903.1 | 808.1 | 742.9 | 709.4 | 679.6 | 670.3 | 672.2 |
| 42.5° | 16342.7 | 6816.7 | 3148.6 | 1608.8 | 873.3 | 789.5 | 728.0 | 698.2 | 664.7 | 655.4 | 653.6 |
| 45° | 16962.7 | 6759.0 | 3040.6 | 1530.6 | 888.2 | 791.3 | 724.3 | 692.7 | 659.1 | 648.0 | 644.2 |
| 47.5° | 17780.1 | 6939.6 | 2928.9 | 1437.5 | 919.8 | 800.7 | 729.9 | 692.7 | 657.3 | 648.0 | 644.2 |
| 50° | 18809.8 | 7364.2 | 2787.4 | 1301.5 | 888.2 | 826.7 | 728.0 | 687.1 | 657.3 | 648.0 | 640.5 |
| 52.5° | 20131.8 | 7937.7 | 2601.2 | 1145.1 | 869.5 | 890.0 | 724.3 | 675.9 | 648.0 | 634.9 | 621.9 |
| 55° | 21738.7 | 8406.9 | 2379.6 | 1016.6 | 826.7 | 873.3 | 718.7 | 662.9 | 633.1 | 614.5 | 603.3 |
| 57.5° | 22915.5 | 8576.3 | 2094.7 | 932.9 | 767.1 | 845.3 | 711.3 | 646.1 | 614.5 | 599.6 | 584.7 |
| 60° | 22682.8 | 8248.6 | 1854.5 | 880.7 | 731.8 | 763.4 | 705.7 | 631.2 | 597.7 | 586.5 | 573.5 |
| 62.5° | 20818.9 | 7392.1 | 1700.0 | 856.5 | 709.4 | 696.4 | 711.3 | 616.3 | 582.8 | 571.6 | 567.9 |
| 65° | 18024.1 | 6127.8 | 1638.6 | 850.9 | 690.8 | 657.3 | 661.0 | 599.6 | 566.0 | 556.7 | 553.0 |
| 67.5° | 14868.0 | 4945.4 | 1584.6 | 869.5 | 666.6 | 629.4 | 610.7 | 577.2 | 549.3 | 540.0 | 532.5 |
| 70° | 11724.9 | 4113.1 | 1560.3 | 858.4 | 636.8 | 601.4 | 580.9 | 553.0 | 528.8 | 519.5 | 513.9 |
| 72.5° | 9442.1 | 3474.5 | 1547.3 | 847.2 | 597.7 | 564.2 | 545.6 | 521.4 | 495.3 | 491.6 | 486.0 |
| 75° | 7989.8 | 2731.5 | 1417.0 | 811.8 | 553.0 | 519.5 | 506.5 | 484.1 | 458.0 | 458.0 | 454.3 |
| 77.5° | 6163.2 | 1975.6 | 1178.6 | 718.7 | 506.5 | 469.2 | 458.0 | 441.3 | 411.5 | 417.1 | 415.2 |
| 80° | 4552.6 | 1288.5 | 921.7 | 595.8 | 448.7 | 413.4 | 407.8 | 391.0 | 359.4 | 366.8 | 366.8 |
| 82.5° | 3118.8 | 845.3 | 662.9 | 487.8 | 383.6 | 350.1 | 350.1 | 333.3 | 297.9 | 301.6 | 312.8 |
| 85° | 1565.9 | 580.9 | 495.3 | 378.0 | 297.9 | 281.2 | 281.2 | 268.1 | 232.7 | 234.6 | 249.5 |
| 87.5° | 476.7 | 350.1 | 327.7 | 270.0 | 214.1 | 210.4 | 201.1 | 191.8 | 169.4 | 167.6 | 176.9 |
| 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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CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-7050-800

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 |
| 2.5° | 9870.4 | 9764.3 | 9635.8 | 9352.8 | 9257.8 | 9252.2 | 9337.9 | 9248.5 | 9419.8 | 9347.2 | 9427.3 |
| 5° | 7960.0 | 7855.7 | 7712.4 | 7351.1 | 7131.4 | 6982.5 | 6911.7 | 6703.2 | 6854.0 | 6744.1 | 6835.4 |
| 7.5° | 5854.1 | 5878.3 | 5783.3 | 5571.1 | 5092.5 | 4852.3 | 4710.8 | 4584.2 | 4694.1 | 4682.9 | 4857.9 |
| 10° | 4115.0 | 4180.2 | 4113.1 | 3899.0 | 3511.7 | 3379.5 | 3405.6 | 3455.9 | 3599.2 | 3673.7 | 3943.7 |
| 12.5° | 2962.4 | 2958.7 | 2915.9 | 2724.1 | 2469.0 | 2483.9 | 2590.0 | 2677.5 | 2809.7 | 2887.9 | 3163.5 |
| 15° | 2212.0 | 2178.5 | 2159.9 | 2003.5 | 1858.3 | 1889.9 | 1942.1 | 1951.4 | 2035.2 | 2081.7 | 2305.1 |
| 17.5° | 1672.1 | 1688.8 | 1709.3 | 1597.6 | 1487.7 | 1467.2 | 1426.3 | 1376.0 | 1400.2 | 1409.5 | 1521.2 |
| 20° | 1327.6 | 1394.6 | 1444.9 | 1366.7 | 1255.0 | 1195.4 | 1143.3 | 1109.7 | 1109.7 | 1107.9 | 1139.5 |
| 22.5° | 1160.0 | 1208.4 | 1262.4 | 1208.4 | 1107.9 | 1055.7 | 1026.0 | 999.9 | 996.2 | 996.2 | 1026.0 |
| 25° | 1068.8 | 1104.2 | 1156.3 | 1119.1 | 1044.6 | 1005.5 | 977.5 | 944.0 | 931.0 | 927.3 | 947.8 |
| 27.5° | 1024.1 | 1039.0 | 1065.1 | 1031.5 | 968.2 | 949.6 | 942.2 | 912.4 | 895.6 | 886.3 | 906.8 |
| 30° | 947.8 | 944.0 | 945.9 | 912.4 | 862.1 | 860.2 | 873.3 | 878.9 | 873.3 | 871.4 | 903.1 |
| 32.5° | 877.0 | 869.5 | 867.7 | 837.9 | 791.3 | 780.2 | 791.3 | 802.5 | 815.6 | 834.2 | 871.4 |
| 35° | 787.6 | 806.2 | 817.4 | 791.3 | 735.5 | 702.0 | 688.9 | 668.5 | 657.3 | 657.3 | 700.1 |
| 37.5° | 716.9 | 759.7 | 776.4 | 752.2 | 690.8 | 644.2 | 621.9 | 618.2 | 620.0 | 627.5 | 668.5 |
| 40° | 692.7 | 724.3 | 739.2 | 715.0 | 653.6 | 610.7 | 597.7 | 594.0 | 597.7 | 608.9 | 649.8 |
| 42.5° | 677.8 | 700.1 | 698.2 | 668.5 | 618.2 | 588.4 | 580.9 | 577.2 | 580.9 | 592.1 | 636.8 |
| 45° | 664.7 | 679.6 | 664.7 | 629.4 | 582.8 | 567.9 | 569.8 | 567.9 | 571.6 | 582.8 | 625.6 |
| 47.5° | 653.6 | 659.1 | 640.5 | 605.1 | 556.7 | 553.0 | 560.5 | 566.0 | 569.8 | 579.1 | 623.8 |
| 50° | 636.8 | 636.8 | 620.0 | 582.8 | 534.4 | 536.3 | 545.6 | 558.6 | 560.5 | 571.6 | 607.0 |
| 52.5° | 616.3 | 614.5 | 603.3 | 567.9 | 515.8 | 521.4 | 521.4 | 536.3 | 540.0 | 553.0 | 590.3 |
| 55° | 599.6 | 595.8 | 590.3 | 556.7 | 499.0 | 508.3 | 502.7 | 508.3 | 517.6 | 530.7 | 571.6 |
| 57.5° | 584.7 | 577.2 | 577.2 | 547.4 | 486.0 | 489.7 | 476.7 | 484.1 | 495.3 | 506.5 | 549.3 |
| 60° | 569.8 | 562.3 | 566.0 | 534.4 | 465.5 | 461.8 | 456.2 | 471.1 | 474.8 | 487.8 | 530.7 |
| 62.5° | 553.0 | 547.4 | 549.3 | 519.5 | 450.6 | 441.3 | 441.3 | 454.3 | 456.2 | 474.8 | 515.8 |
| 65° | 540.0 | 532.5 | 530.7 | 504.6 | 433.8 | 422.7 | 428.3 | 433.8 | 437.6 | 456.2 | 495.3 |
| 67.5° | 526.9 | 512.0 | 512.0 | 491.6 | 415.2 | 404.1 | 415.2 | 413.4 | 418.9 | 435.7 | 467.4 |
| 70° | 510.2 | 489.7 | 491.6 | 482.3 | 396.6 | 383.6 | 392.9 | 391.0 | 394.7 | 405.9 | 437.6 |
| 72.5° | 484.1 | 467.4 | 471.1 | 467.4 | 378.0 | 359.4 | 363.1 | 363.1 | 363.1 | 372.4 | 405.9 |
| 75° | 450.6 | 437.6 | 448.7 | 458.0 | 355.6 | 329.6 | 333.3 | 333.3 | 327.7 | 333.3 | 374.3 |
| 77.5° | 409.6 | 402.2 | 439.4 | 426.4 | 329.6 | 297.9 | 297.9 | 294.2 | 283.0 | 290.5 | 335.2 |
| 80° | 364.9 | 359.4 | 405.9 | 357.5 | 299.8 | 258.8 | 255.1 | 245.8 | 234.6 | 240.2 | 284.9 |
| 82.5° | 318.4 | 312.8 | 340.7 | 273.7 | 258.8 | 214.1 | 204.8 | 188.1 | 176.9 | 182.5 | 223.4 |
| 85° | 260.7 | 260.7 | 262.5 | 206.7 | 197.4 | 163.9 | 152.7 | 130.3 | 117.3 | 121.0 | 160.1 |
| 87.5° | 186.2 | 191.8 | 176.9 | 141.5 | 117.3 | 91.2 | 83.8 | 70.8 | 59.6 | 68.9 | 83.8 |
| 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 | 11443.8 |
| 2.5° | 9836.9 | 10041.7 | 10274.5 | 10572.4 | 10827.5 | 11246.4 | 11648.6 | 11890.7 |
| 5° | 7354.9 | 7695.6 | 8120.1 | 8665.7 | 9174.0 | 9937.4 | 10695.3 | 11181.2 |
| 7.5° | 5263.8 | 5628.8 | 6086.8 | 6768.3 | 7487.1 | 8460.9 | 9462.6 | 10043.6 |
| 10° | 4355.2 | 4729.5 | 5114.9 | 5574.8 | 6163.2 | 7222.7 | 8406.9 | 9062.3 |
| 12.5° | 3602.9 | 4003.3 | 4418.5 | 4902.6 | 5448.2 | 6394.1 | 7758.9 | 8513.0 |
| 15° | 2757.6 | 3204.5 | 3694.2 | 4306.8 | 4990.1 | 6083.1 | 7598.8 | 8418.1 |
| 17.5° | 1889.9 | 2388.9 | 2990.4 | 3746.3 | 4582.4 | 5982.6 | 7885.5 | 8829.6 |
| 20° | 1301.5 | 1664.6 | 2307.0 | 3193.3 | 4198.8 | 5969.5 | 8436.7 | 9619.0 |
| 22.5° | 1089.3 | 1251.3 | 1720.5 | 2685.0 | 3910.2 | 6129.7 | 9291.3 | 10726.9 |
| 25° | 1007.3 | 1104.2 | 1374.1 | 2243.7 | 3699.8 | 6498.3 | 10468.1 | 12160.7 |
| 27.5° | 958.9 | 1046.4 | 1247.5 | 1955.1 | 3534.1 | 6926.6 | 11613.2 | 13549.7 |
| 30° | 977.5 | 1066.9 | 1212.2 | 1808.0 | 3308.8 | 7284.1 | 12629.9 | 14633.4 |
| 32.5° | 880.7 | 919.8 | 1039.0 | 1677.7 | 3146.8 | 7583.9 | 13519.9 | 15530.9 |
| 35° | 750.4 | 819.3 | 927.3 | 1616.2 | 3150.5 | 7785.0 | 14490.0 | 16677.8 |
| 37.5° | 715.0 | 783.9 | 862.1 | 1593.9 | 3193.3 | 7999.1 | 15603.5 | 18022.2 |
| 40° | 692.7 | 756.0 | 823.0 | 1580.8 | 3234.3 | 8194.6 | 16694.6 | 19351.7 |
| 42.5° | 677.8 | 735.5 | 819.3 | 1536.1 | 3254.8 | 8369.6 | 17592.1 | 20481.9 |
| 45° | 675.9 | 735.5 | 834.2 | 1491.5 | 3286.4 | 8557.7 | 18344.3 | 21317.9 |
| 47.5° | 677.8 | 759.7 | 806.2 | 1437.5 | 3286.4 | 8872.4 | 19226.9 | 22064.6 |
| 50° | 670.3 | 800.7 | 776.4 | 1361.1 | 3210.1 | 9468.2 | 20437.2 | 23064.5 |
| 52.5° | 666.6 | 795.1 | 718.7 | 1243.8 | 3077.9 | 10414.1 | 21988.2 | 24442.3 |
| 55° | 657.3 | 767.1 | 677.8 | 1068.8 | 2923.3 | 11445.6 | 23649.1 | 26071.6 |
| 57.5° | 648.0 | 679.6 | 655.4 | 916.1 | 2685.0 | 12171.8 | 24792.4 | 27343.3 |
| 60° | 726.2 | 594.0 | 636.8 | 841.6 | 2366.6 | 12371.1 | 24747.7 | 27849.8 |
| 62.5° | 672.2 | 556.7 | 612.6 | 824.9 | 2143.1 | 11812.5 | 23604.4 | 27576.1 |
| 65° | 526.9 | 532.5 | 588.4 | 873.3 | 2083.6 | 10332.2 | 21578.6 | 26311.8 |
| 67.5° | 482.3 | 508.3 | 564.2 | 934.7 | 2089.2 | 8272.8 | 18551.0 | 23557.9 |
| 70° | 454.3 | 482.3 | 536.3 | 966.4 | 2104.0 | 6166.9 | 14666.9 | 19187.8 |
| 72.5° | 422.7 | 446.9 | 504.6 | 972.0 | 2007.2 | 4479.9 | 11304.1 | 14108.3 |
| 75° | 385.4 | 407.8 | 459.9 | 847.2 | 1662.8 | 3107.7 | 8647.1 | 9652.6 |
| 77.5° | 342.6 | 359.4 | 404.1 | 653.6 | 1234.5 | 1988.6 | 6490.9 | 7051.4 |
| 80° | 292.3 | 301.6 | 338.9 | 478.5 | 845.3 | 1243.8 | 5135.4 | 5658.6 |
| 82.5° | 234.6 | 238.3 | 262.5 | 359.4 | 549.3 | 798.8 | 3439.1 | 3925.1 |
| 85° | 165.7 | 165.7 | 180.6 | 260.7 | 374.3 | 506.5 | 1867.6 | 2070.5 |
| 87.5° | 78.2 | 80.1 | 80.1 | 143.4 | 195.5 | 257.0 | 430.1 | 264.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)