

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: P191303

Luminaire Tested: **GLEON-AF-05-LED-E1-SLL-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191303
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-05-LED-E1-SLL-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA 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: 29339.3 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

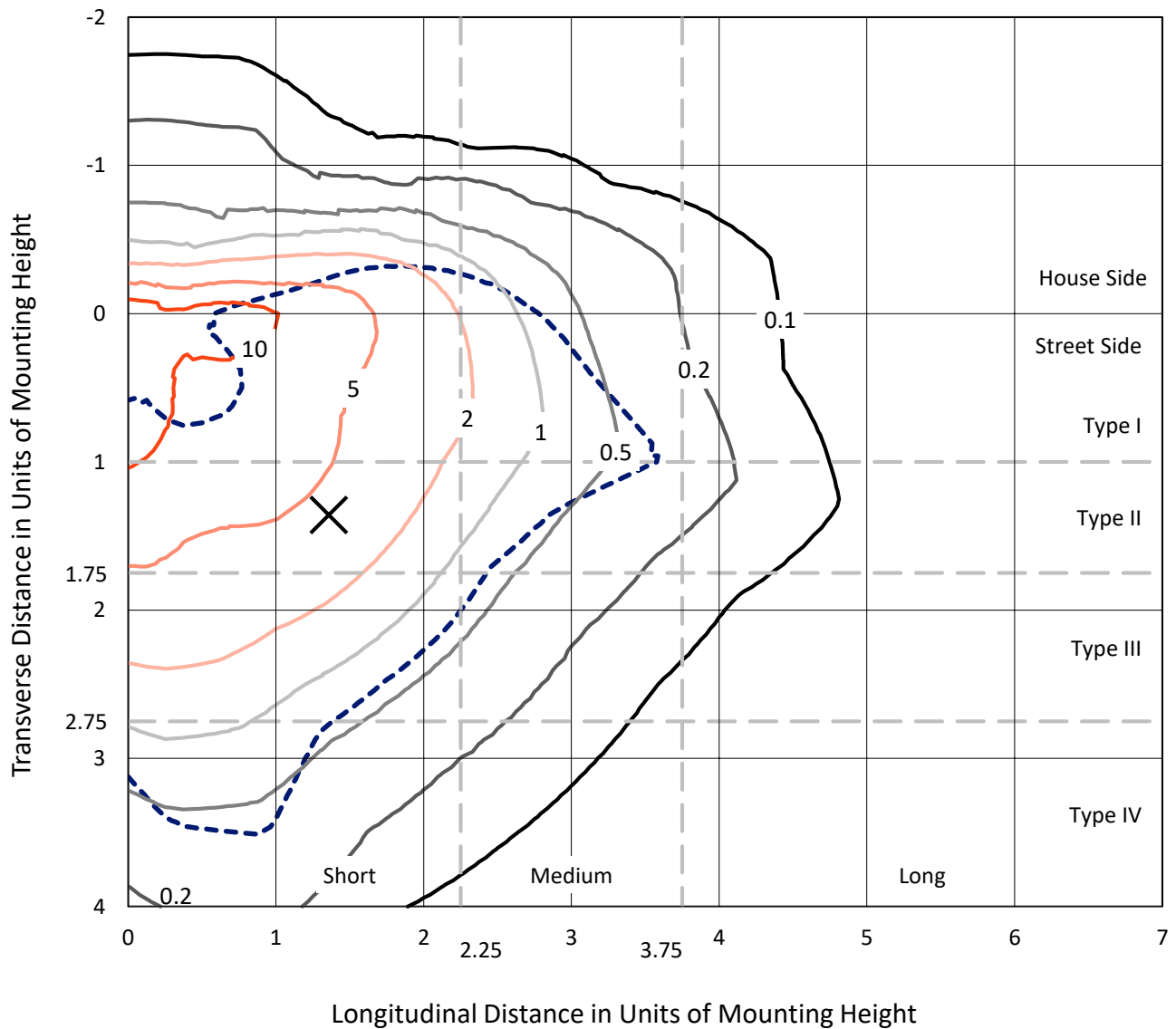
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191303
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Iso-Footcandle Lines of Horizontal Illumination

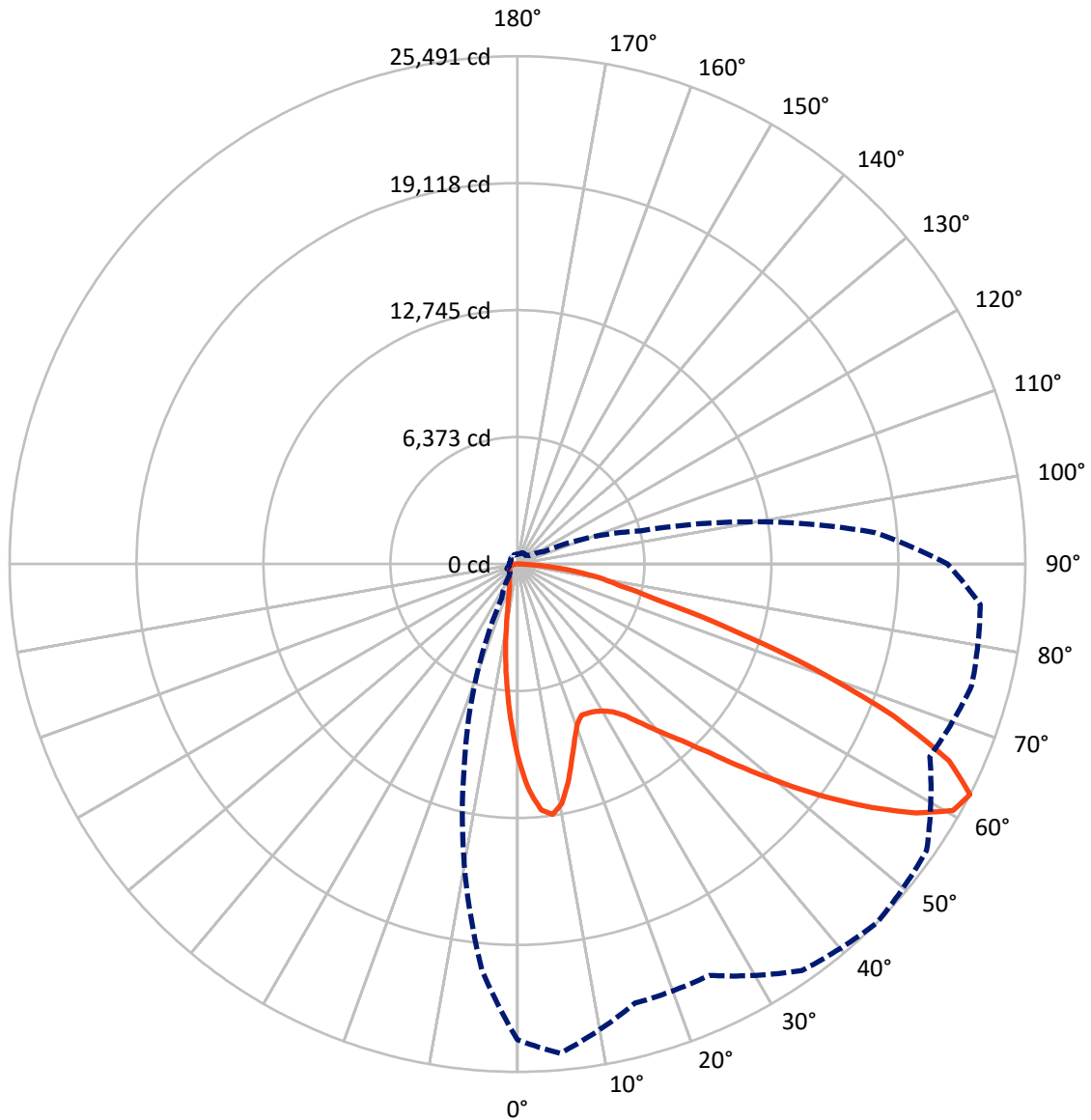
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 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 | 4855.3 | 0.0 | 4855.3 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 24484.0 | 0.0 | 24484.0 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 29339.3 | 0.0 | 29339.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 721.6 | 2.5 |
| 10°-20° | 1323.2 | 4.5 |
| 20°-30° | 1929.2 | 6.6 |
| 30°-40° | 2971.2 | 10.1 |
| 40°-50° | 4372.9 | 14.9 |
| 50°-60° | 6414.1 | 21.9 |
| 60°-70° | 7170.0 | 24.4 |
| 70°-80° | 3510.3 | 12.0 |
| 80°-90° | 926.8 | 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° | 29339.3 | 100.0 |
| 0°-180° | 29339.3 | 100.0 |



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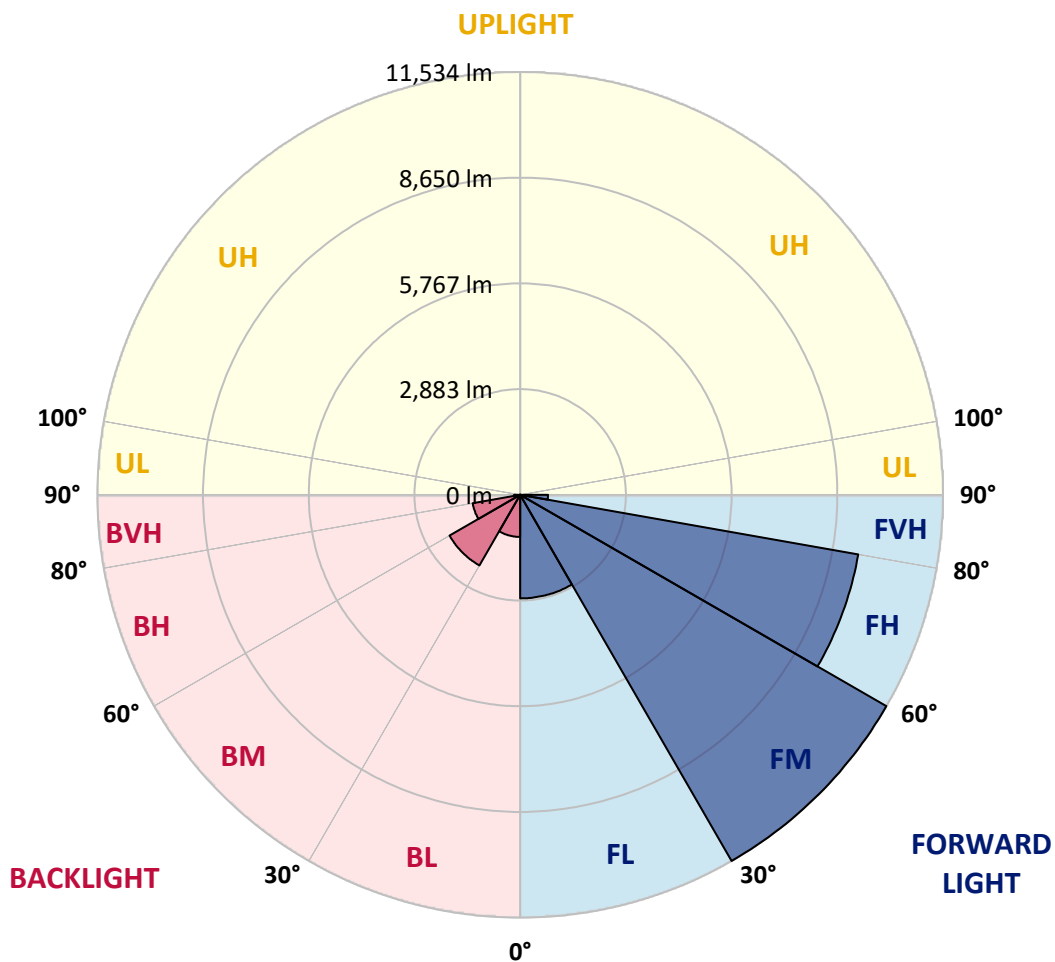
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2825.3 | 9.6 | | | |
| FM | (30°-60°) | 11533.5 | 39.3 | | | |
| FH | (60°-80°) | 9364.1 | 31.9 | | | G4/12000 |
| FVH | (80°-90°) | 761.1 | 2.6 | | | G5 |
| BL | (0°-30°) | 1148.7 | 3.9 | B3/2500 | | |
| BM | (30°-60°) | 2224.6 | 7.6 | B2/2500 | | |
| BH | (60°-80°) | 1316.3 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 165.7 | 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: P191303

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-1200

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 |
| 2.5° | 10299.5 | 10464.0 | 10784.9 | 11025.3 | 11317.1 | 11384.9 | 11478.4 | 11386.5 | 11223.6 | 11007.5 | 10936.5 |
| 5° | 9685.0 | 10036.6 | 10815.6 | 11501.0 | 12110.6 | 12394.5 | 12473.6 | 12239.7 | 11767.1 | 11146.2 | 10767.2 |
| 7.5° | 8699.6 | 9199.5 | 10254.3 | 11263.9 | 12162.3 | 12692.9 | 12680.0 | 12136.5 | 11267.2 | 10255.9 | 9647.9 |
| 10° | 7849.6 | 8420.5 | 9630.2 | 10759.1 | 11712.3 | 12226.8 | 12028.4 | 11333.3 | 10296.2 | 9131.8 | 8472.2 |
| 12.5° | 7373.8 | 7933.5 | 9160.8 | 10294.6 | 11091.3 | 11268.7 | 11117.1 | 10436.6 | 9459.2 | 8281.8 | 7704.5 |
| 15° | 7291.6 | 7906.1 | 8973.7 | 9896.2 | 10343.0 | 10188.2 | 10007.5 | 9702.7 | 9012.4 | 8007.7 | 7406.1 |
| 17.5° | 7648.0 | 8325.4 | 9188.2 | 9618.8 | 9543.0 | 9273.7 | 9222.1 | 9256.0 | 9089.8 | 8312.5 | 7618.9 |
| 20° | 8331.8 | 9144.7 | 9699.5 | 9488.2 | 8935.0 | 8564.0 | 8576.9 | 9094.6 | 9586.6 | 9085.0 | 8293.1 |
| 22.5° | 9291.5 | 10218.8 | 10436.6 | 9557.5 | 8678.6 | 8238.2 | 8344.7 | 9183.3 | 10378.4 | 10214.0 | 9202.8 |
| 25° | 10533.3 | 11378.4 | 11222.0 | 9809.2 | 8704.4 | 8278.6 | 8364.1 | 9489.8 | 11313.9 | 11343.0 | 10328.5 |
| 27.5° | 11736.5 | 12520.3 | 11881.7 | 10143.0 | 8810.8 | 8373.8 | 8486.6 | 9972.0 | 12207.4 | 12568.7 | 11615.5 |
| 30° | 12675.2 | 13220.3 | 12142.9 | 10447.8 | 9020.5 | 8559.2 | 8699.6 | 10430.1 | 12613.8 | 13396.1 | 12605.8 |
| 32.5° | 13452.5 | 13844.4 | 12559.0 | 10825.3 | 9405.9 | 8851.2 | 9097.9 | 10986.5 | 13199.3 | 14183.1 | 13575.1 |
| 35° | 14446.0 | 14557.3 | 13076.7 | 11246.2 | 10001.1 | 9359.2 | 9665.7 | 11531.6 | 13757.4 | 14978.3 | 14529.9 |
| 37.5° | 15610.4 | 15466.9 | 13565.5 | 11821.9 | 10770.4 | 10154.3 | 10407.5 | 12130.0 | 14217.0 | 15879.8 | 15505.7 |
| 40° | 16762.0 | 16416.8 | 14178.3 | 12715.5 | 11892.9 | 11091.3 | 11391.4 | 12768.7 | 14646.0 | 16782.9 | 16458.8 |
| 42.5° | 17741.0 | 17229.8 | 14783.1 | 13697.6 | 12938.1 | 12125.1 | 12483.2 | 13412.2 | 15055.7 | 17553.9 | 17286.2 |
| 45° | 18465.2 | 17829.7 | 15358.9 | 14641.2 | 14378.3 | 13499.3 | 13668.7 | 14149.3 | 15499.1 | 18197.5 | 17966.8 |
| 47.5° | 19111.9 | 18432.9 | 16010.4 | 15592.7 | 15637.8 | 15286.3 | 15013.7 | 15007.3 | 16021.8 | 18723.2 | 18610.3 |
| 50° | 19978.0 | 19269.9 | 16710.4 | 16573.3 | 17528.1 | 17294.2 | 16692.7 | 16008.9 | 16683.0 | 19320.0 | 19307.1 |
| 52.5° | 21171.5 | 20595.7 | 17565.2 | 17629.7 | 19292.5 | 19445.8 | 18700.7 | 17212.0 | 17718.4 | 20415.0 | 20337.6 |
| 55° | 22582.7 | 22247.2 | 18729.6 | 18844.2 | 21456.9 | 21566.6 | 20826.4 | 18716.7 | 19240.9 | 22000.5 | 21786.0 |
| 57.5° | 23684.3 | 23613.3 | 20007.0 | 20302.2 | 23073.0 | 23566.5 | 22885.9 | 20458.6 | 20957.0 | 23335.9 | 22797.2 |
| 60° | 24122.9 | 24466.4 | 21366.6 | 21773.0 | 24568.1 | 25114.8 | 24518.1 | 21989.1 | 22477.8 | 23889.1 | 22727.8 |
| 62.5° | 23885.8 | 24653.5 | 22815.0 | 22781.0 | 24901.9 | 25490.6 | 25071.3 | 22840.8 | 23605.2 | 23318.2 | 21577.9 |
| 65° | 22790.7 | 23981.0 | 23655.2 | 22521.4 | 23760.1 | 23808.5 | 23672.9 | 22460.1 | 23871.3 | 21513.4 | 19355.5 |
| 67.5° | 20405.4 | 22118.1 | 22548.8 | 20295.8 | 20679.6 | 20365.0 | 20137.6 | 20376.4 | 22484.3 | 18808.7 | 16266.9 |
| 70° | 16620.1 | 19197.4 | 19403.8 | 16233.0 | 16058.8 | 15847.6 | 15394.4 | 16705.6 | 19747.3 | 15415.4 | 12907.4 |
| 72.5° | 12220.3 | 14929.9 | 15563.7 | 11905.8 | 11099.4 | 11143.0 | 10784.9 | 12589.7 | 16055.6 | 11451.0 | 9636.6 |
| 75° | 8360.9 | 10810.7 | 12176.8 | 8307.6 | 7340.0 | 7357.7 | 7312.6 | 8920.5 | 12788.0 | 7965.7 | 7210.9 |
| 77.5° | 6107.7 | 7723.8 | 9183.3 | 5585.2 | 5422.3 | 5322.3 | 5298.1 | 6241.6 | 9804.4 | 5783.6 | 5599.7 |
| 80° | 4901.4 | 5706.1 | 6169.0 | 3870.7 | 4162.7 | 4154.6 | 4020.7 | 4291.7 | 6402.9 | 4230.4 | 4188.5 |
| 82.5° | 3399.8 | 4385.3 | 4998.1 | 3033.7 | 2809.5 | 2762.8 | 2795.0 | 3196.6 | 4525.5 | 2891.8 | 2749.9 |
| 85° | 1793.4 | 2912.8 | 4949.8 | 2688.5 | 1667.6 | 1330.6 | 1654.7 | 2617.6 | 3920.8 | 1532.2 | 1341.9 |
| 87.5° | 229.0 | 841.9 | 3277.2 | 1072.6 | 658.1 | 354.9 | 785.4 | 1474.1 | 2517.6 | 312.9 | 272.6 |
| 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-05-LED-E1-SLL-1200

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 |
| 2.5° | 10754.3 | 10539.8 | 10259.2 | 9999.4 | 9730.1 | 9462.4 | 9112.4 | 8893.1 | 8741.5 | 8712.5 | 8647.9 |
| 5° | 10493.0 | 9780.1 | 9241.4 | 8775.4 | 8352.8 | 7756.0 | 7425.4 | 7151.2 | 7004.5 | 6989.9 | 6954.4 |
| 7.5° | 9288.2 | 8304.4 | 7577.0 | 6917.4 | 6319.0 | 5836.8 | 5304.5 | 5056.1 | 4954.6 | 4978.8 | 5002.9 |
| 10° | 8035.1 | 6935.1 | 6099.7 | 5425.5 | 4898.1 | 4491.7 | 4064.3 | 3775.6 | 3575.6 | 3535.3 | 3527.2 |
| 12.5° | 7119.0 | 5912.6 | 5101.4 | 4625.6 | 4217.5 | 3835.2 | 3382.1 | 3041.7 | 2782.1 | 2693.4 | 2633.7 |
| 15° | 6731.9 | 5412.6 | 4562.7 | 4049.8 | 3599.8 | 3114.4 | 2693.4 | 2336.9 | 2098.3 | 2020.8 | 1977.4 |
| 17.5° | 6814.2 | 5273.9 | 4191.7 | 3535.3 | 2959.5 | 2453.1 | 1922.4 | 1617.7 | 1474.1 | 1437.0 | 1437.0 |
| 20° | 7246.4 | 5248.1 | 3885.3 | 3061.1 | 2343.4 | 1756.4 | 1320.9 | 1146.7 | 1100.0 | 1095.1 | 1108.0 |
| 22.5° | 7852.8 | 5338.5 | 3656.2 | 2649.9 | 1820.9 | 1282.2 | 1029.0 | 964.4 | 943.5 | 948.4 | 962.8 |
| 25° | 8755.9 | 5643.2 | 3490.1 | 2283.7 | 1429.0 | 1050.0 | 917.7 | 879.0 | 869.3 | 882.2 | 900.0 |
| 27.5° | 9826.9 | 5948.0 | 3386.9 | 2008.0 | 1206.4 | 959.6 | 872.6 | 832.2 | 838.6 | 854.8 | 870.9 |
| 30° | 10767.2 | 6198.1 | 3224.0 | 1811.2 | 1137.0 | 964.4 | 872.6 | 817.7 | 811.2 | 814.5 | 819.3 |
| 32.5° | 11610.7 | 6367.4 | 3033.7 | 1624.1 | 980.6 | 856.4 | 814.5 | 806.4 | 770.9 | 758.0 | 759.6 |
| 35° | 12338.0 | 6367.4 | 2919.2 | 1514.5 | 879.0 | 759.6 | 691.9 | 651.6 | 633.8 | 635.5 | 653.2 |
| 37.5° | 13039.7 | 6240.0 | 2862.7 | 1453.1 | 824.2 | 722.5 | 662.9 | 627.4 | 603.2 | 598.3 | 601.6 |
| 40° | 13659.0 | 6054.5 | 2798.3 | 1427.3 | 782.3 | 700.0 | 643.5 | 614.5 | 588.7 | 580.6 | 582.3 |
| 42.5° | 14155.7 | 5904.6 | 2727.3 | 1393.5 | 756.4 | 683.8 | 630.6 | 604.8 | 575.8 | 567.7 | 566.1 |
| 45° | 14692.7 | 5854.6 | 2633.7 | 1325.7 | 769.4 | 685.5 | 627.4 | 600.0 | 570.9 | 561.3 | 558.0 |
| 47.5° | 15400.8 | 6011.0 | 2536.9 | 1245.1 | 796.8 | 693.6 | 632.2 | 600.0 | 569.4 | 561.3 | 558.0 |
| 50° | 16292.6 | 6378.7 | 2414.4 | 1127.4 | 769.4 | 716.1 | 630.6 | 595.2 | 569.4 | 561.3 | 554.8 |
| 52.5° | 17437.8 | 6875.5 | 2253.2 | 991.9 | 753.2 | 770.9 | 627.4 | 585.4 | 561.3 | 549.9 | 538.7 |
| 55° | 18829.7 | 7281.9 | 2061.1 | 880.6 | 716.1 | 756.4 | 622.6 | 574.2 | 548.4 | 532.2 | 522.5 |
| 57.5° | 19848.9 | 7428.7 | 1814.4 | 808.0 | 664.5 | 732.2 | 616.1 | 559.7 | 532.2 | 519.4 | 506.5 |
| 60° | 19647.3 | 7144.8 | 1606.3 | 762.8 | 633.8 | 661.2 | 611.2 | 546.8 | 517.7 | 508.0 | 496.7 |
| 62.5° | 18032.9 | 6402.9 | 1472.5 | 741.9 | 614.5 | 603.2 | 616.1 | 533.9 | 504.8 | 495.1 | 491.9 |
| 65° | 15612.1 | 5307.8 | 1419.2 | 737.0 | 598.3 | 569.4 | 572.5 | 519.4 | 490.3 | 482.2 | 479.0 |
| 67.5° | 12878.3 | 4283.6 | 1372.5 | 753.2 | 577.4 | 545.1 | 529.0 | 500.0 | 475.8 | 467.7 | 461.2 |
| 70° | 10156.0 | 3562.7 | 1351.5 | 743.5 | 551.6 | 521.0 | 503.2 | 479.0 | 458.1 | 450.0 | 445.2 |
| 72.5° | 8178.6 | 3009.5 | 1340.3 | 733.9 | 517.7 | 488.7 | 472.6 | 451.6 | 429.0 | 425.8 | 420.9 |
| 75° | 6920.6 | 2366.0 | 1227.3 | 703.2 | 479.0 | 450.0 | 438.6 | 419.3 | 396.8 | 396.8 | 393.5 |
| 77.5° | 5338.5 | 1711.2 | 1020.9 | 622.6 | 438.6 | 406.4 | 396.8 | 382.3 | 356.4 | 361.3 | 359.7 |
| 80° | 3943.4 | 1116.0 | 798.3 | 516.1 | 388.7 | 358.0 | 353.2 | 338.7 | 311.3 | 317.7 | 317.7 |
| 82.5° | 2701.5 | 732.2 | 574.2 | 422.6 | 332.3 | 303.2 | 303.2 | 288.7 | 258.1 | 261.3 | 271.0 |
| 85° | 1356.3 | 503.2 | 429.0 | 327.4 | 258.1 | 243.6 | 243.6 | 232.2 | 201.6 | 203.3 | 216.1 |
| 87.5° | 412.9 | 303.2 | 283.9 | 233.8 | 185.5 | 182.3 | 174.2 | 166.1 | 146.8 | 145.2 | 153.2 |
| 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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 CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-1200

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 | 9912.4 |
| 2.5° | 8549.5 | 8457.7 | 8346.4 | 8101.2 | 8018.9 | 8014.1 | 8088.3 | 8010.8 | 8159.3 | 8096.3 | 8165.7 |
| 5° | 6894.8 | 6804.5 | 6680.3 | 6367.4 | 6177.1 | 6048.1 | 5986.8 | 5806.2 | 5936.8 | 5841.7 | 5920.6 |
| 7.5° | 5070.7 | 5091.6 | 5009.4 | 4825.6 | 4411.1 | 4203.0 | 4080.4 | 3970.8 | 4065.9 | 4056.2 | 4207.8 |
| 10° | 3564.4 | 3620.7 | 3562.7 | 3377.3 | 3041.7 | 2927.3 | 2949.9 | 2993.4 | 3117.5 | 3182.1 | 3415.9 |
| 12.5° | 2566.0 | 2562.8 | 2525.7 | 2359.5 | 2138.6 | 2151.5 | 2243.4 | 2319.2 | 2433.7 | 2501.5 | 2740.2 |
| 15° | 1916.0 | 1887.0 | 1870.9 | 1735.4 | 1609.6 | 1637.0 | 1682.1 | 1690.2 | 1762.9 | 1803.2 | 1996.7 |
| 17.5° | 1448.3 | 1462.8 | 1480.5 | 1383.8 | 1288.6 | 1270.9 | 1235.4 | 1191.8 | 1212.8 | 1220.9 | 1317.7 |
| 20° | 1149.9 | 1208.0 | 1251.6 | 1183.8 | 1087.1 | 1035.4 | 990.3 | 961.3 | 961.3 | 959.6 | 987.0 |
| 22.5° | 1004.7 | 1046.7 | 1093.5 | 1046.7 | 959.6 | 914.5 | 888.6 | 866.1 | 862.9 | 862.9 | 888.6 |
| 25° | 925.8 | 956.4 | 1001.6 | 969.3 | 904.8 | 870.9 | 846.7 | 817.7 | 806.4 | 803.2 | 820.9 |
| 27.5° | 887.0 | 900.0 | 922.5 | 893.5 | 838.6 | 822.6 | 816.1 | 790.3 | 775.8 | 767.7 | 785.4 |
| 30° | 820.9 | 817.7 | 819.3 | 790.3 | 746.8 | 745.1 | 756.4 | 761.3 | 756.4 | 754.8 | 782.3 |
| 32.5° | 759.6 | 753.2 | 751.6 | 725.8 | 685.5 | 675.8 | 685.5 | 695.1 | 706.4 | 722.5 | 754.8 |
| 35° | 682.2 | 698.4 | 708.0 | 685.5 | 637.1 | 608.0 | 596.8 | 579.0 | 569.4 | 569.4 | 606.4 |
| 37.5° | 620.9 | 658.1 | 672.6 | 651.6 | 598.3 | 558.0 | 538.7 | 535.4 | 537.0 | 543.5 | 579.0 |
| 40° | 600.0 | 627.4 | 640.3 | 619.3 | 566.1 | 529.0 | 517.7 | 514.4 | 517.7 | 527.4 | 562.8 |
| 42.5° | 587.1 | 606.4 | 604.8 | 579.0 | 535.4 | 509.6 | 503.2 | 500.0 | 503.2 | 512.9 | 551.6 |
| 45° | 575.8 | 588.7 | 575.8 | 545.1 | 504.8 | 491.9 | 493.5 | 491.9 | 495.1 | 504.8 | 541.9 |
| 47.5° | 566.1 | 570.9 | 554.8 | 524.2 | 482.2 | 479.0 | 485.5 | 490.3 | 493.5 | 501.6 | 540.3 |
| 50° | 551.6 | 551.6 | 537.0 | 504.8 | 462.9 | 464.5 | 472.6 | 483.9 | 485.5 | 495.1 | 525.8 |
| 52.5° | 533.9 | 532.2 | 522.5 | 491.9 | 446.7 | 451.6 | 451.6 | 464.5 | 467.7 | 479.0 | 511.3 |
| 55° | 519.4 | 516.1 | 511.3 | 482.2 | 432.2 | 440.3 | 435.5 | 440.3 | 448.4 | 459.6 | 495.1 |
| 57.5° | 506.5 | 500.0 | 500.0 | 474.1 | 420.9 | 424.2 | 412.9 | 419.3 | 429.0 | 438.6 | 475.8 |
| 60° | 493.5 | 487.0 | 490.3 | 462.9 | 403.2 | 400.0 | 395.2 | 408.1 | 411.2 | 422.6 | 459.6 |
| 62.5° | 479.0 | 474.1 | 475.8 | 450.0 | 390.3 | 382.3 | 382.3 | 393.5 | 395.2 | 411.2 | 446.7 |
| 65° | 467.7 | 461.2 | 459.6 | 437.1 | 375.8 | 366.1 | 370.9 | 375.8 | 379.0 | 395.2 | 429.0 |
| 67.5° | 456.4 | 443.6 | 443.6 | 425.8 | 359.7 | 350.0 | 359.7 | 358.0 | 362.8 | 377.4 | 404.8 |
| 70° | 441.9 | 424.2 | 425.8 | 417.7 | 343.5 | 332.3 | 340.3 | 338.7 | 341.9 | 351.6 | 379.0 |
| 72.5° | 419.3 | 404.8 | 408.1 | 404.8 | 327.4 | 311.3 | 314.5 | 314.5 | 314.5 | 322.5 | 351.6 |
| 75° | 390.3 | 379.0 | 388.7 | 396.8 | 308.0 | 285.5 | 288.7 | 288.7 | 283.9 | 288.7 | 324.2 |
| 77.5° | 354.9 | 348.4 | 380.6 | 369.3 | 285.5 | 258.1 | 258.1 | 254.8 | 245.1 | 251.6 | 290.3 |
| 80° | 316.1 | 311.3 | 351.6 | 309.6 | 259.6 | 224.2 | 221.0 | 212.9 | 203.3 | 208.1 | 246.7 |
| 82.5° | 275.8 | 271.0 | 295.1 | 237.1 | 224.2 | 185.5 | 177.4 | 162.9 | 153.2 | 158.0 | 193.5 |
| 85° | 225.8 | 225.8 | 227.4 | 179.0 | 170.9 | 141.9 | 132.3 | 112.9 | 101.6 | 104.9 | 138.7 |
| 87.5° | 161.3 | 166.1 | 153.2 | 122.5 | 101.6 | 79.1 | 72.5 | 61.3 | 51.7 | 59.6 | 72.5 |
| 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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| 32.5° | 762.8 | 796.8 | 900.0 | 1453.1 | 2725.7 | 6569.0 | 11710.6 | 13452.5 |
| 35° | 650.0 | 709.6 | 803.2 | 1399.9 | 2728.9 | 6743.2 | 12551.0 | 14446.0 |
| 37.5° | 619.3 | 679.0 | 746.8 | 1380.6 | 2766.0 | 6928.7 | 13515.4 | 15610.4 |
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| 65° | 456.4 | 461.2 | 509.6 | 756.4 | 1804.8 | 8949.5 | 18690.9 | 22790.7 |
| 67.5° | 417.7 | 440.3 | 488.7 | 809.7 | 1809.6 | 7165.8 | 16068.5 | 20405.4 |
| 70° | 393.5 | 417.7 | 464.5 | 837.1 | 1822.5 | 5341.6 | 12704.1 | 16620.1 |
| 72.5° | 366.1 | 387.1 | 437.1 | 841.9 | 1738.6 | 3880.5 | 9791.4 | 12220.3 |
| 75° | 333.9 | 353.2 | 398.3 | 733.9 | 1440.2 | 2691.8 | 7489.9 | 8360.9 |
| 77.5° | 296.8 | 311.3 | 350.0 | 566.1 | 1069.3 | 1722.4 | 5622.2 | 6107.7 |
| 80° | 253.2 | 261.3 | 293.5 | 414.5 | 732.2 | 1077.4 | 4448.2 | 4901.4 |
| 82.5° | 203.3 | 206.4 | 227.4 | 311.3 | 475.8 | 691.9 | 2978.8 | 3399.8 |
| 85° | 143.5 | 143.5 | 156.4 | 225.8 | 324.2 | 438.6 | 1617.7 | 1793.4 |
| 87.5° | 67.7 | 69.4 | 69.4 | 124.2 | 169.3 | 222.6 | 372.6 | 229.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)