

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: P269398

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL3-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33932.7 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 382
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

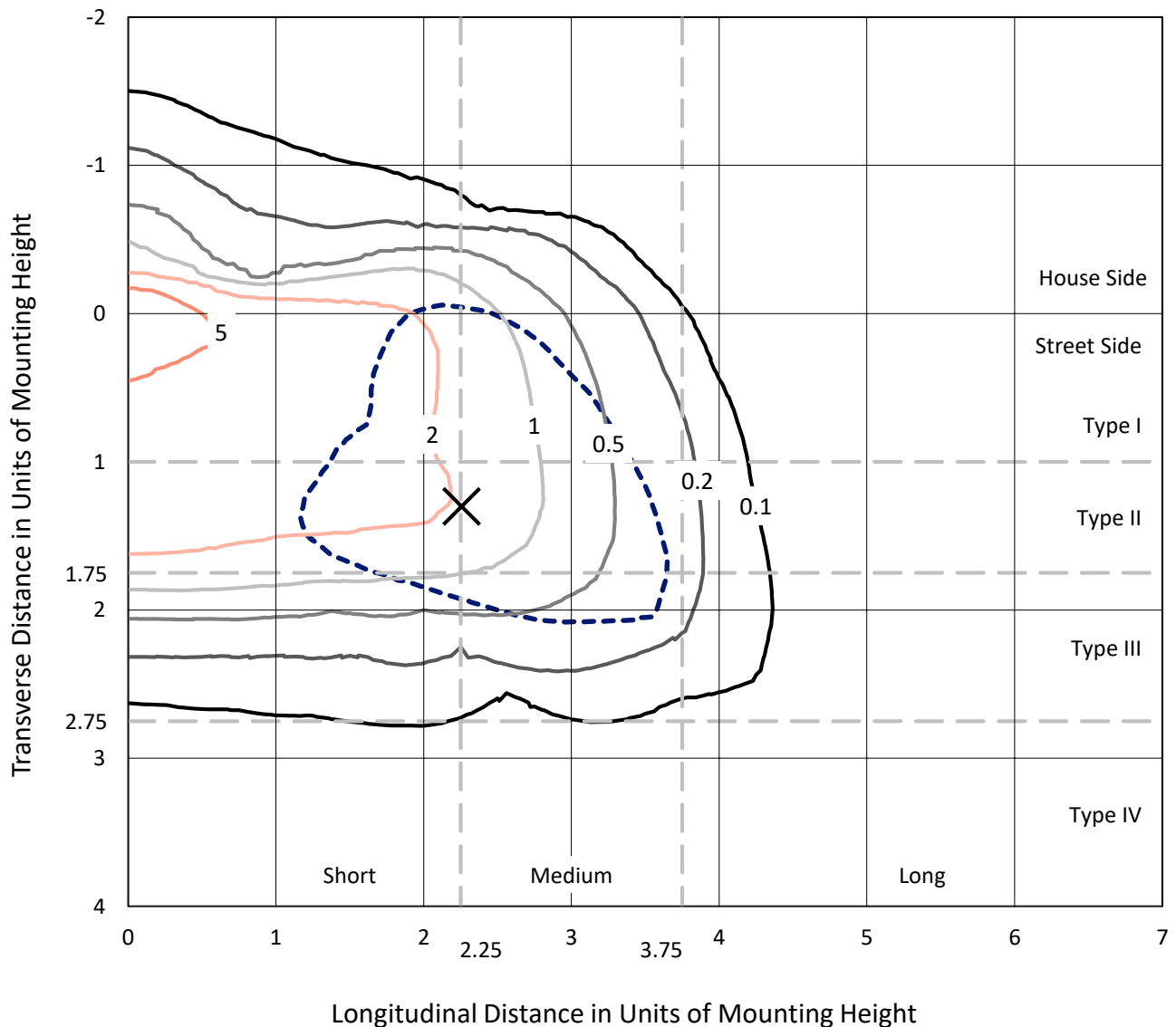


REPORT NUMBER: P269398

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

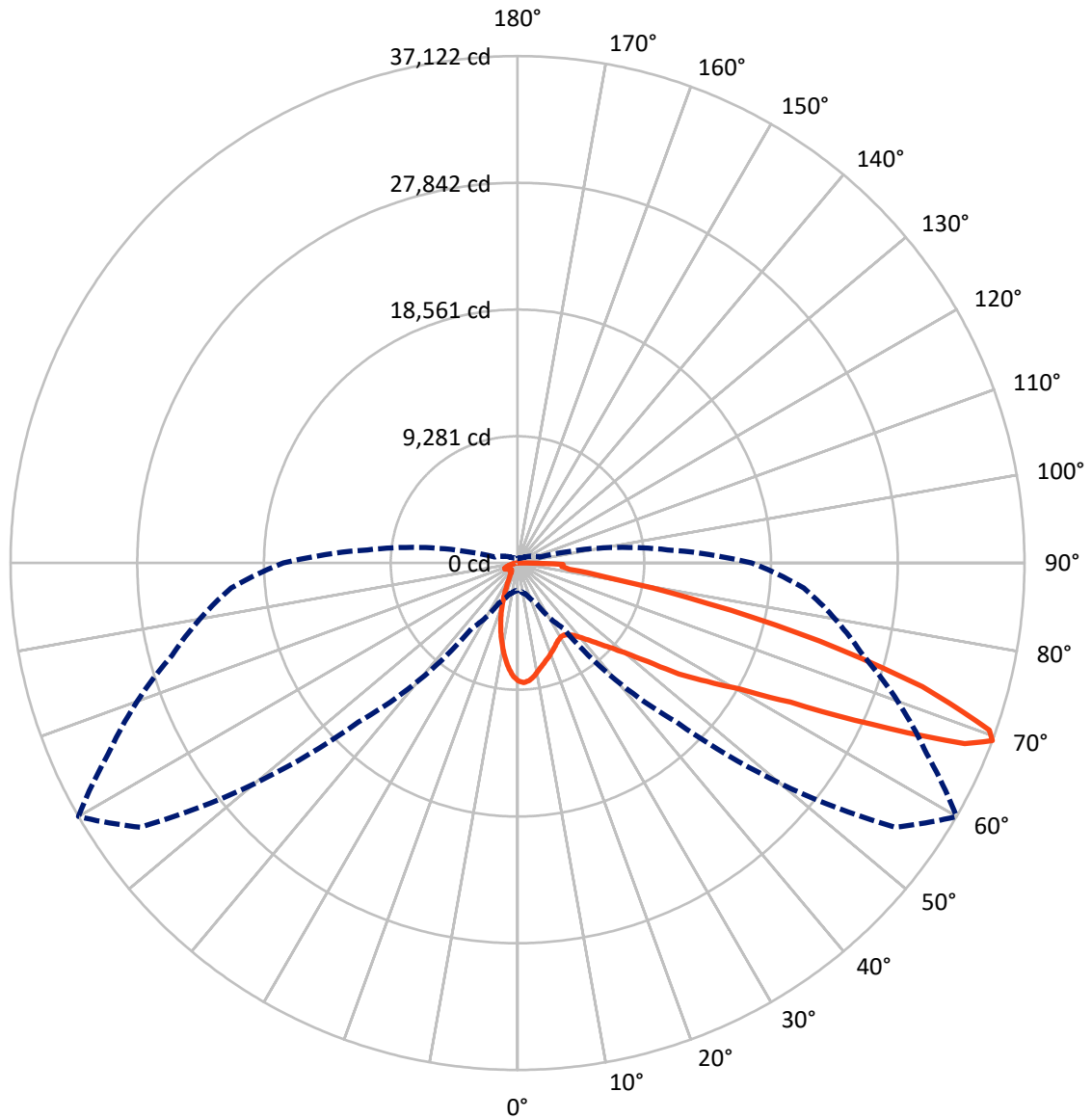


Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P269398

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-7027-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P269398

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4827.5 | 0.0 | 4827.5 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 29105.2 | 0.0 | 29105.2 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 33932.7 | 0.0 | 33932.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 731.1 | 2.2 |
| 10°-20° | 1557.7 | 4.6 |
| 20°-30° | 1984.7 | 5.8 |
| 30°-40° | 2728.5 | 8.0 |
| 40°-50° | 4427.3 | 13.0 |
| 50°-60° | 7100.2 | 20.9 |
| 60°-70° | 9449.8 | 27.8 |
| 70°-80° | 5102.2 | 15.0 |
| 80°-90° | 851.3 | 2.5 |
| 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° | 33932.7 | 100.0 |
| 0°-180° | 33932.7 | 100.0 |



REPORT NUMBER: P269398

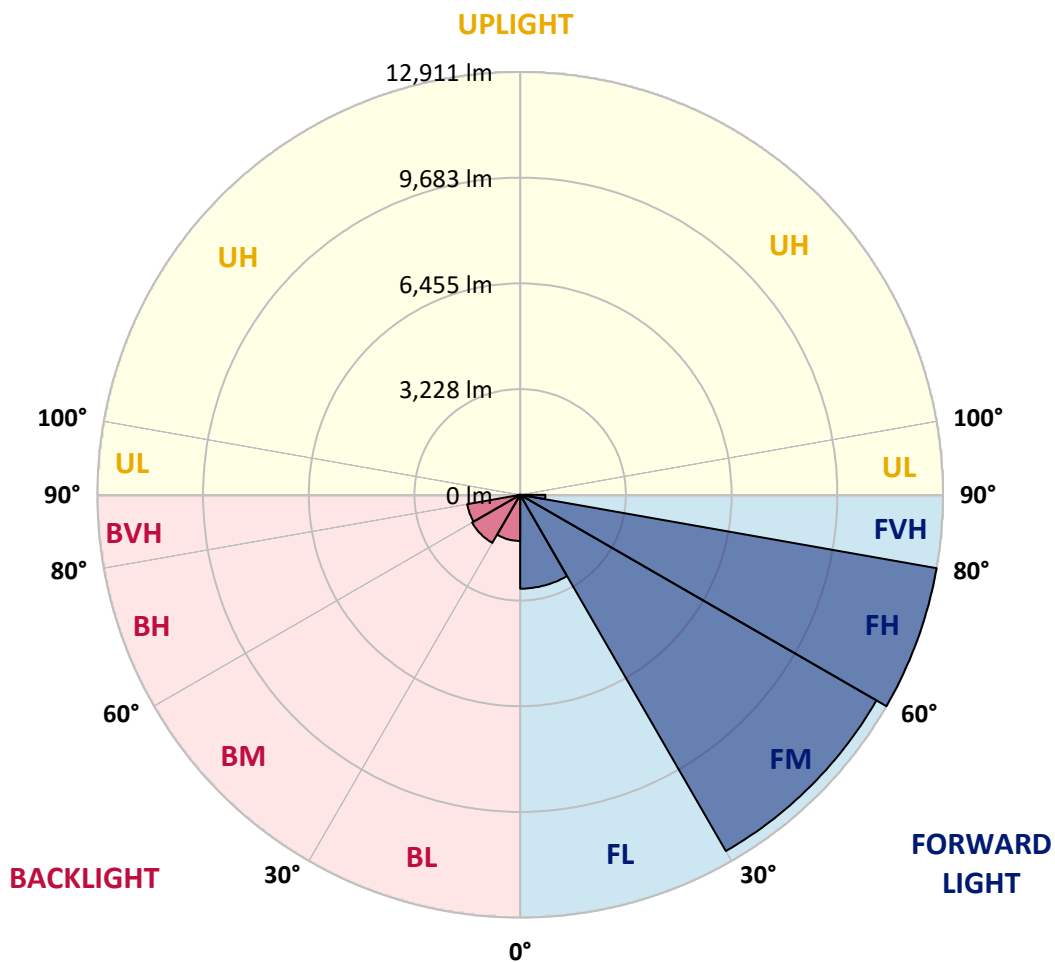
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2865.1 | 8.4 | | | |
| FM (30°-60°) | 12559.9 | 37.0 | | | |
| FH (60°-80°) | 12910.8 | 38.0 | | | G5 |
| FVH (80°-90°) | 769.4 | 2.3 | | | G5 |
| BL (0°-30°) | 1408.4 | 4.2 | B3/2500 | | |
| BM (30°-60°) | 1696.0 | 5.0 | B2/2500 | | |
| BH (60°-80°) | 1641.2 | 4.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 82.0 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Medium





REPORT NUMBER: P269398

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-7027-1200

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8646.5 | 8646.5 | 8646.5 | 8646.5 | 8646.5 | 8646.5 | 8646.5 | 8646.5 | 8646.5 | 8646.5 | 8646.5 |
| 2.5° | 8823.6 | 8843.3 | 8835.1 | 8830.2 | 8844.9 | 8822.0 | 8774.5 | 8759.7 | 8736.7 | 8682.7 | 8590.9 |
| 5° | 8492.4 | 8551.5 | 8548.2 | 8592.5 | 8666.3 | 8685.9 | 8664.6 | 8667.8 | 8625.3 | 8558.1 | 8405.6 |
| 7.5° | 7920.4 | 7945.0 | 7958.2 | 8054.8 | 8189.3 | 8297.5 | 8389.2 | 8418.7 | 8399.1 | 8341.8 | 8145.0 |
| 10° | 7330.3 | 7350.0 | 7381.2 | 7494.3 | 7664.7 | 7813.8 | 7987.5 | 8087.6 | 8130.2 | 8120.4 | 7900.8 |
| 12.5° | 6823.9 | 6843.5 | 6884.5 | 7012.3 | 7215.5 | 7399.2 | 7651.7 | 7776.2 | 7877.9 | 7938.4 | 7702.4 |
| 15° | 6369.8 | 6412.5 | 6451.7 | 6599.3 | 6827.1 | 7068.0 | 7353.3 | 7510.6 | 7668.0 | 7804.0 | 7527.1 |
| 17.5° | 6015.7 | 6058.3 | 6081.3 | 6215.7 | 6458.4 | 6753.4 | 7087.7 | 7272.9 | 7469.6 | 7692.5 | 7353.3 |
| 20° | 5810.9 | 5830.4 | 5820.7 | 5896.0 | 6114.0 | 6427.2 | 6823.9 | 7038.6 | 7276.2 | 7587.7 | 7179.6 |
| 22.5° | 5753.5 | 5755.1 | 5719.0 | 5710.9 | 5851.7 | 6115.8 | 6541.8 | 6802.5 | 7094.4 | 7518.9 | 7030.3 |
| 25° | 5892.8 | 5887.9 | 5789.5 | 5709.2 | 5724.0 | 5878.0 | 6269.8 | 6573.1 | 6941.8 | 7504.1 | 6915.6 |
| 27.5° | 6202.5 | 6217.3 | 6071.5 | 5920.6 | 5771.5 | 5766.6 | 6063.3 | 6382.8 | 6817.2 | 7571.3 | 6866.5 |
| 30° | 6636.9 | 6661.6 | 6505.9 | 6314.0 | 6033.7 | 5802.6 | 5982.9 | 6269.8 | 6740.3 | 7710.6 | 6858.3 |
| 32.5° | 7112.3 | 7138.6 | 7020.6 | 6818.9 | 6451.7 | 6025.7 | 6038.6 | 6279.6 | 6737.0 | 7905.7 | 6914.0 |
| 35° | 7618.9 | 7648.3 | 7587.7 | 7417.2 | 7009.0 | 6437.0 | 6251.8 | 6438.6 | 6843.5 | 8204.0 | 7063.2 |
| 37.5° | 8184.4 | 8230.2 | 8246.6 | 8084.3 | 7648.3 | 6979.6 | 6600.9 | 6740.3 | 7084.5 | 8618.7 | 7336.8 |
| 40° | 8999.0 | 9062.9 | 9058.0 | 8825.3 | 8381.0 | 7712.3 | 7140.2 | 7176.3 | 7459.9 | 9172.8 | 7774.6 |
| 42.5° | 10559.4 | 10572.6 | 10164.4 | 9657.9 | 9187.5 | 8482.6 | 7776.2 | 7746.7 | 7977.8 | 9874.3 | 8418.7 |
| 45° | 12544.6 | 12490.5 | 11582.3 | 10603.8 | 10030.0 | 9367.9 | 8604.0 | 8459.7 | 8635.0 | 10730.0 | 9225.2 |
| 47.5° | 14191.9 | 14067.3 | 12920.0 | 11569.2 | 10921.8 | 10330.0 | 9576.0 | 9323.6 | 9420.3 | 11700.3 | 10267.6 |
| 50° | 14764.0 | 14670.5 | 13719.9 | 12372.4 | 11765.9 | 11503.6 | 10772.6 | 10415.3 | 10441.4 | 12857.6 | 11489.0 |
| 52.5° | 14640.9 | 14627.9 | 13993.5 | 12901.8 | 12556.0 | 12736.3 | 12467.4 | 11983.8 | 11728.2 | 14142.6 | 12806.7 |
| 55° | 14350.9 | 14378.7 | 14149.3 | 13518.1 | 13459.1 | 13926.3 | 14682.0 | 14324.6 | 13529.6 | 15439.3 | 14169.0 |
| 57.5° | 13342.7 | 13414.8 | 13919.7 | 14293.6 | 14913.1 | 15608.1 | 16465.5 | 16363.7 | 15468.8 | 16840.7 | 15788.4 |
| 60° | 10749.7 | 10916.8 | 12270.8 | 14142.6 | 16409.7 | 18583.1 | 18966.8 | 18730.6 | 17468.6 | 18580.0 | 17927.6 |
| 62.5° | 7532.0 | 7705.8 | 9315.3 | 12244.5 | 16163.8 | 21943.4 | 23438.3 | 22420.4 | 20340.3 | 21141.9 | 20696.1 |
| 65° | 4032.3 | 4115.9 | 5345.4 | 8495.8 | 13646.1 | 22636.7 | 29973.7 | 28424.7 | 24887.5 | 24300.6 | 23064.6 |
| 67.5° | 2224.4 | 2270.2 | 2740.6 | 4289.6 | 8740.0 | 19933.8 | 34137.2 | 35307.5 | 30570.4 | 26403.6 | 22633.5 |
| 69° | 2011.2 | 2053.9 | 2362.1 | 3248.8 | 5848.5 | 16481.8 | 33730.6 | 37122.1 | 33061.8 | 26195.5 | 21040.3 |
| 70° | 1967.0 | 2006.4 | 2283.3 | 2994.8 | 4733.9 | 13585.3 | 32368.5 | 36658.3 | 33655.3 | 25449.6 | 19650.2 |
| 72.5° | 1770.3 | 1812.9 | 2081.7 | 2689.9 | 4045.4 | 6773.0 | 25639.8 | 30994.8 | 30555.7 | 22066.4 | 14904.9 |
| 75° | 1650.6 | 1690.0 | 2145.6 | 2634.1 | 3873.3 | 4286.4 | 16903.0 | 22843.4 | 22461.4 | 15435.9 | 8036.9 |
| 77.5° | 706.4 | 703.3 | 995.0 | 2229.2 | 3930.8 | 4150.3 | 9082.7 | 14270.6 | 13019.9 | 6597.6 | 2307.9 |
| 80° | 472.1 | 463.9 | 472.1 | 655.7 | 3604.4 | 4173.3 | 4758.5 | 7243.5 | 5471.5 | 1681.7 | 1137.6 |
| 82.5° | 406.6 | 399.9 | 414.7 | 399.9 | 1267.1 | 4763.4 | 4045.4 | 3852.0 | 2601.3 | 955.6 | 563.9 |
| 85° | 273.8 | 262.2 | 357.3 | 359.0 | 598.4 | 4232.4 | 4556.9 | 3253.8 | 2104.6 | 567.2 | 278.7 |
| 87.5° | 131.2 | 127.9 | 208.1 | 254.1 | 350.8 | 1719.4 | 5112.6 | 3334.1 | 2122.8 | 290.2 | 132.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P269398

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-7027-1200

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8646.5 | 8646.5 | 8646.5 | 8646.5 | 8646.5 | 8646.5 | 8646.5 | 8646.5 | 8646.5 | 8646.5 | 8646.5 |
| 2.5° | 8563.1 | 8495.8 | 8430.2 | 8351.5 | 8269.5 | 8177.8 | 8131.8 | 8086.1 | 8074.5 | 8061.4 | 8015.4 |
| 5° | 8327.0 | 8231.9 | 8067.9 | 7887.7 | 7697.4 | 7512.3 | 7371.3 | 7282.7 | 7215.5 | 7181.2 | 7120.5 |
| 7.5° | 8022.0 | 7882.7 | 7595.9 | 7284.4 | 6964.7 | 6673.0 | 6420.5 | 6261.5 | 6110.8 | 6040.4 | 5960.0 |
| 10° | 7731.9 | 7523.8 | 7077.8 | 6618.9 | 6159.9 | 5719.0 | 5304.3 | 5010.9 | 4750.2 | 4604.4 | 4501.1 |
| 12.5° | 7482.8 | 7197.6 | 6579.5 | 5958.4 | 5328.9 | 4701.1 | 4079.9 | 3591.5 | 3183.2 | 2968.4 | 2858.6 |
| 15° | 7240.2 | 6896.0 | 6105.9 | 5317.4 | 4509.3 | 3655.4 | 2839.1 | 2285.0 | 1947.3 | 1812.9 | 1767.1 |
| 17.5° | 7020.6 | 6579.5 | 5630.5 | 4671.6 | 3663.6 | 2630.9 | 1908.0 | 1603.0 | 1473.6 | 1429.4 | 1414.7 |
| 20° | 6782.8 | 6260.0 | 5137.1 | 3996.3 | 2781.6 | 1839.1 | 1490.0 | 1355.6 | 1303.1 | 1290.1 | 1283.5 |
| 22.5° | 6553.3 | 5945.3 | 4665.1 | 3273.5 | 1998.1 | 1419.5 | 1280.2 | 1224.5 | 1216.2 | 1227.8 | 1227.8 |
| 25° | 6358.4 | 5663.4 | 4155.3 | 2517.8 | 1467.0 | 1194.9 | 1145.8 | 1132.7 | 1163.8 | 1206.5 | 1214.6 |
| 27.5° | 6212.4 | 5432.2 | 3612.8 | 1858.9 | 1168.8 | 1039.2 | 1037.6 | 1058.9 | 1135.9 | 1217.9 | 1234.4 |
| 30° | 6112.4 | 5212.5 | 3032.5 | 1340.8 | 980.2 | 914.7 | 940.9 | 986.8 | 1099.9 | 1216.2 | 1247.3 |
| 32.5° | 6061.7 | 5050.2 | 2427.6 | 1037.6 | 839.2 | 803.2 | 847.5 | 903.2 | 1014.6 | 1122.8 | 1163.8 |
| 35° | 6101.0 | 4930.5 | 1857.2 | 865.4 | 740.9 | 713.1 | 759.0 | 813.1 | 878.6 | 924.4 | 955.6 |
| 37.5° | 6248.5 | 4883.0 | 1401.4 | 775.3 | 673.6 | 647.5 | 683.5 | 714.7 | 740.9 | 753.9 | 768.8 |
| 40° | 6566.5 | 4933.9 | 1122.8 | 729.5 | 636.0 | 603.2 | 617.9 | 629.4 | 645.8 | 658.9 | 665.6 |
| 42.5° | 7035.3 | 5086.4 | 1006.5 | 711.4 | 616.3 | 568.7 | 565.6 | 570.5 | 591.8 | 616.3 | 621.3 |
| 45° | 7691.0 | 5355.2 | 998.2 | 722.9 | 606.4 | 540.9 | 526.1 | 532.8 | 565.6 | 603.2 | 609.8 |
| 47.5° | 8528.6 | 5765.0 | 1063.9 | 757.4 | 614.7 | 526.1 | 501.6 | 509.8 | 550.8 | 601.5 | 609.8 |
| 50° | 9543.2 | 6337.1 | 1173.6 | 808.1 | 650.7 | 529.5 | 493.3 | 498.3 | 540.9 | 596.7 | 604.9 |
| 52.5° | 10741.5 | 7148.4 | 1293.3 | 857.3 | 688.5 | 550.8 | 499.9 | 488.5 | 527.8 | 577.0 | 586.9 |
| 55° | 12074.1 | 8189.3 | 1416.3 | 901.4 | 708.1 | 577.0 | 513.0 | 475.4 | 503.2 | 544.3 | 552.4 |
| 57.5° | 13709.9 | 9644.8 | 1629.3 | 944.2 | 721.2 | 594.9 | 526.1 | 462.3 | 472.1 | 501.6 | 508.1 |
| 60° | 15924.4 | 11703.6 | 2004.7 | 1014.6 | 750.8 | 601.5 | 524.5 | 450.8 | 441.0 | 457.3 | 460.7 |
| 62.5° | 18578.2 | 13939.4 | 2317.7 | 1103.2 | 799.9 | 606.4 | 514.6 | 442.5 | 414.7 | 414.7 | 418.0 |
| 65° | 20153.6 | 14537.7 | 2144.1 | 1176.9 | 841.0 | 601.5 | 503.2 | 434.4 | 395.1 | 377.0 | 378.6 |
| 67.5° | 18817.5 | 12785.4 | 1837.6 | 1191.7 | 839.2 | 578.6 | 485.2 | 419.6 | 375.4 | 347.6 | 345.8 |
| 69° | 17144.1 | 11031.5 | 1699.9 | 1152.3 | 799.9 | 549.1 | 462.3 | 403.2 | 360.6 | 331.1 | 329.5 |
| 70° | 15795.0 | 9961.1 | 1609.7 | 1109.8 | 757.4 | 527.8 | 444.2 | 388.4 | 349.1 | 321.2 | 318.0 |
| 72.5° | 11484.0 | 6527.2 | 1375.2 | 954.0 | 624.5 | 442.5 | 383.5 | 340.9 | 311.4 | 295.1 | 291.8 |
| 75° | 5738.7 | 3112.7 | 1116.2 | 773.7 | 478.6 | 354.0 | 314.8 | 285.2 | 270.5 | 267.2 | 265.5 |
| 77.5° | 1885.1 | 1426.1 | 798.2 | 577.0 | 355.6 | 276.9 | 254.1 | 232.8 | 229.4 | 239.3 | 236.1 |
| 80° | 1035.9 | 829.5 | 506.6 | 381.9 | 242.6 | 203.2 | 200.1 | 188.6 | 193.4 | 209.8 | 206.5 |
| 82.5° | 527.8 | 431.0 | 313.1 | 229.4 | 163.9 | 145.9 | 159.0 | 152.4 | 159.0 | 173.7 | 172.1 |
| 85° | 260.6 | 236.1 | 198.3 | 139.3 | 108.2 | 93.5 | 113.0 | 117.9 | 121.4 | 132.8 | 132.8 |
| 87.5° | 150.7 | 139.3 | 104.9 | 65.5 | 54.1 | 49.1 | 65.5 | 63.9 | 75.4 | 81.9 | 80.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)