

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: P269482

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22900.9 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 226
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

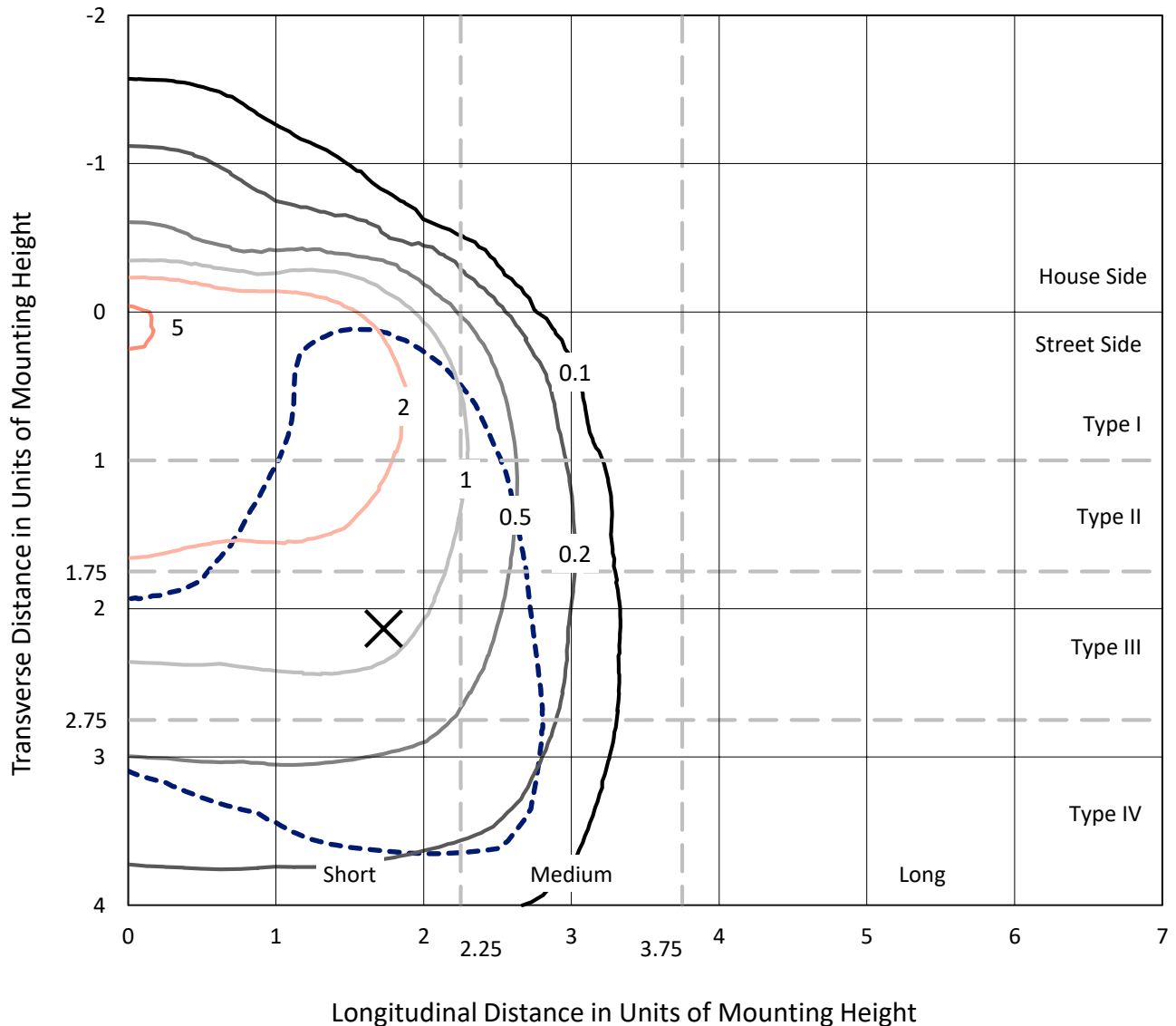


REPORT NUMBER: P269482

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Iso-Footcandle Lines of Horizontal Illumination

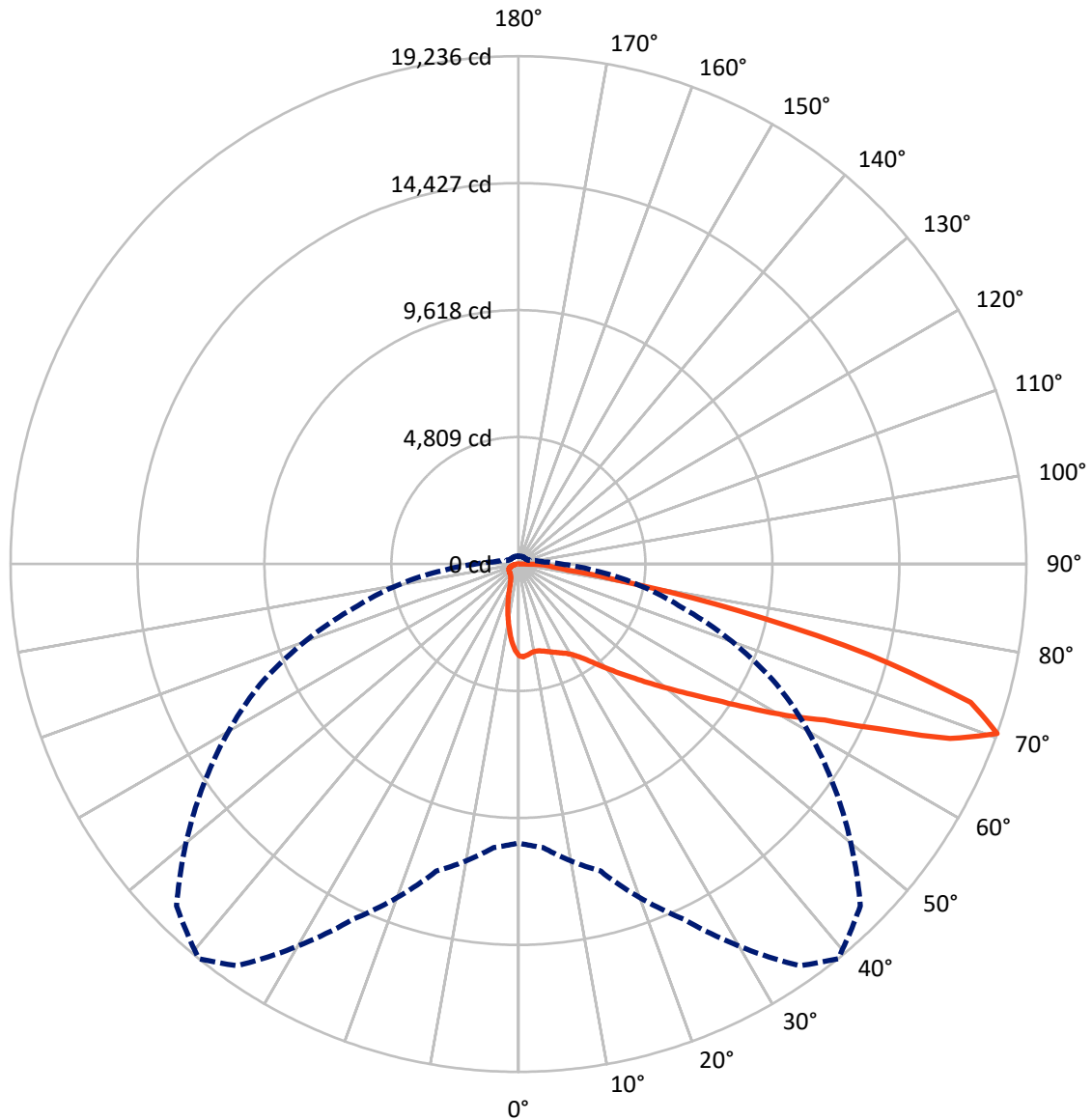
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P269482
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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2604.6 | 0.0 | 2604.6 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 20296.3 | 0.0 | 20296.3 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 22900.9 | 0.0 | 22900.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 298.4 | 1.3 |
| 10°-20° | 745.8 | 3.3 |
| 20°-30° | 1161.2 | 5.1 |
| 30°-40° | 1809.0 | 7.9 |
| 40°-50° | 3037.0 | 13.3 |
| 50°-60° | 4824.5 | 21.1 |
| 60°-70° | 6435.4 | 28.1 |
| 70°-80° | 3886.2 | 17.0 |
| 80°-90° | 703.3 | 3.1 |
| 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° | 22900.9 | 100.0 |
| 0°-180° | 22900.9 | 100.0 |



REPORT NUMBER: P269482

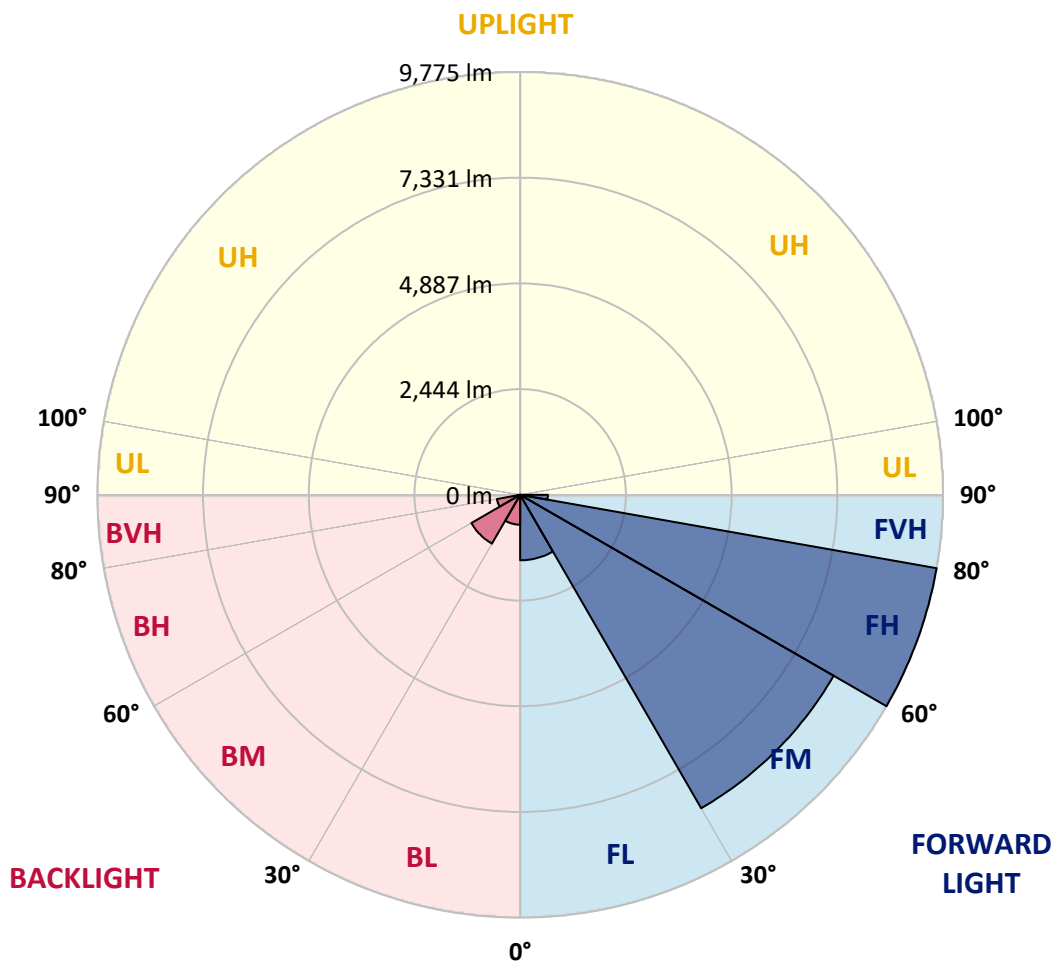
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1514.5 | 6.6 | | | |
| FM | (30°-60°) | 8367.1 | 36.5 | | | |
| FH | (60°-80°) | 9774.8 | 42.7 | | | G4/12000 |
| FVH | (80°-90°) | 640.0 | 2.8 | | | G4/750 |
| BL | (0°-30°) | 691.0 | 3.0 | B2/1000 | | |
| BM | (30°-60°) | 1303.4 | 5.7 | B2/2500 | | |
| BH | (60°-80°) | 546.8 | 2.4 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 63.4 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P269482

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL4-7027-600

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 3476.7 | 3476.7 | 3476.7 | 3476.7 | 3476.7 | 3476.7 | 3476.7 | 3476.7 | 3476.7 | 3476.7 | 3476.7 |
| 2.5° | 3544.3 | 3543.1 | 3533.8 | 3526.7 | 3520.9 | 3518.7 | 3523.3 | 3505.8 | 3490.6 | 3472.0 | 3452.2 |
| 5° | 3517.5 | 3516.2 | 3501.1 | 3487.2 | 3473.2 | 3468.5 | 3467.4 | 3435.9 | 3417.3 | 3389.3 | 3352.1 |
| 7.5° | 3488.4 | 3482.5 | 3462.7 | 3439.4 | 3414.9 | 3403.4 | 3391.7 | 3350.9 | 3329.9 | 3302.1 | 3259.1 |
| 10° | 3458.0 | 3451.1 | 3432.5 | 3409.2 | 3385.9 | 3368.5 | 3348.6 | 3309.0 | 3286.9 | 3266.0 | 3215.9 |
| 12.5° | 3426.7 | 3420.8 | 3416.2 | 3405.7 | 3389.3 | 3374.3 | 3359.1 | 3325.3 | 3302.1 | 3277.6 | 3219.3 |
| 15° | 3422.1 | 3419.7 | 3430.2 | 3437.2 | 3427.8 | 3418.5 | 3402.2 | 3373.0 | 3348.6 | 3324.2 | 3248.5 |
| 17.5° | 3459.3 | 3458.0 | 3484.9 | 3503.5 | 3498.9 | 3482.5 | 3460.5 | 3427.8 | 3408.0 | 3387.1 | 3292.7 |
| 20° | 3540.8 | 3546.6 | 3579.1 | 3603.6 | 3580.4 | 3557.1 | 3520.9 | 3475.5 | 3465.0 | 3455.8 | 3338.1 |
| 22.5° | 3694.5 | 3700.3 | 3723.6 | 3732.8 | 3672.4 | 3638.6 | 3588.5 | 3530.2 | 3523.3 | 3530.2 | 3392.9 |
| 25° | 3934.2 | 3928.5 | 3925.0 | 3890.0 | 3779.4 | 3727.1 | 3663.0 | 3602.5 | 3605.9 | 3637.3 | 3469.8 |
| 27.5° | 4252.1 | 4220.7 | 4171.8 | 4067.0 | 3891.2 | 3833.0 | 3754.9 | 3699.1 | 3721.1 | 3781.8 | 3585.0 |
| 30° | 4581.6 | 4546.7 | 4433.9 | 4262.6 | 4037.9 | 3973.9 | 3886.5 | 3823.6 | 3881.8 | 3977.3 | 3738.7 |
| 32.5° | 4886.7 | 4882.1 | 4716.7 | 4496.6 | 4240.4 | 4184.7 | 4097.3 | 4026.3 | 4120.5 | 4266.1 | 3969.3 |
| 35° | 5219.7 | 5230.2 | 5032.2 | 4767.9 | 4514.2 | 4456.0 | 4393.0 | 4339.5 | 4465.3 | 4665.4 | 4303.4 |
| 37.5° | 5576.0 | 5597.0 | 5362.9 | 5064.9 | 4826.1 | 4801.7 | 4764.5 | 4741.2 | 4935.6 | 5212.8 | 4770.3 |
| 40° | 6052.2 | 6031.3 | 5706.5 | 5400.3 | 5209.2 | 5208.1 | 5196.4 | 5224.5 | 5548.1 | 5927.6 | 5369.9 |
| 42.5° | 6562.2 | 6500.5 | 6070.8 | 5760.0 | 5629.6 | 5669.2 | 5692.5 | 5806.6 | 6285.1 | 6796.2 | 6101.1 |
| 45° | 7111.8 | 6973.3 | 6449.3 | 6140.8 | 6096.4 | 6180.2 | 6259.5 | 6507.5 | 7152.6 | 7784.7 | 6902.1 |
| 47.5° | 7550.8 | 7416.9 | 6840.6 | 6540.1 | 6636.7 | 6763.7 | 6916.2 | 7308.5 | 8123.6 | 8805.8 | 7692.7 |
| 50° | 7896.6 | 7809.2 | 7235.2 | 7005.8 | 7231.6 | 7427.2 | 7676.5 | 8215.5 | 9134.2 | 9800.1 | 8425.2 |
| 52.5° | 8231.9 | 8166.8 | 7633.3 | 7483.2 | 7930.2 | 8200.4 | 8539.3 | 9188.9 | 10170.5 | 10778.3 | 9041.1 |
| 55° | 8534.5 | 8488.1 | 8061.8 | 8078.2 | 8752.4 | 9104.0 | 9530.1 | 10297.5 | 11299.9 | 11650.4 | 9562.6 |
| 57.5° | 8875.8 | 8816.3 | 8550.8 | 8824.5 | 9808.4 | 10264.8 | 10819.0 | 11543.2 | 12359.4 | 12425.9 | 9959.8 |
| 60° | 9219.2 | 9168.0 | 9093.5 | 9686.2 | 11149.8 | 11629.4 | 12154.5 | 12750.6 | 13434.2 | 13027.8 | 9936.4 |
| 62.5° | 9517.4 | 9523.1 | 9654.8 | 10590.7 | 12463.1 | 13018.4 | 13658.9 | 14247.9 | 14406.4 | 13132.6 | 9201.8 |
| 65° | 10022.6 | 10114.6 | 10506.9 | 11871.6 | 14312.1 | 15054.9 | 15840.8 | 15746.5 | 14675.3 | 12153.3 | 7626.4 |
| 67.5° | 10623.4 | 10785.3 | 11580.5 | 13578.5 | 16648.8 | 17635.0 | 17939.0 | 16085.3 | 13598.4 | 9879.4 | 5436.4 |
| 70° | 10562.9 | 10785.3 | 12043.9 | 14851.0 | 18574.7 | 19236.0 | 18313.8 | 14557.8 | 10798.0 | 6454.0 | 2887.5 |
| 72.5° | 9379.9 | 9697.7 | 11099.6 | 14267.8 | 17968.1 | 17909.9 | 15899.0 | 10852.9 | 6415.4 | 2591.8 | 1128.2 |
| 75° | 7149.0 | 7470.3 | 8676.6 | 11271.9 | 14201.5 | 13712.4 | 11281.3 | 5995.2 | 2434.6 | 1029.3 | 711.4 |
| 77.5° | 4112.4 | 4361.6 | 5293.1 | 6912.6 | 9009.6 | 8507.8 | 6279.3 | 2666.3 | 1185.4 | 717.2 | 555.4 |
| 80° | 2296.1 | 2434.6 | 3000.5 | 3507.1 | 4415.2 | 4047.3 | 2809.5 | 1656.8 | 884.9 | 520.5 | 428.5 |
| 82.5° | 1815.2 | 1938.6 | 2426.5 | 2212.3 | 2016.7 | 1860.6 | 1613.7 | 1475.2 | 706.7 | 328.3 | 256.1 |
| 85° | 1585.8 | 1703.5 | 2053.9 | 1741.9 | 1377.5 | 1263.2 | 1311.0 | 1451.9 | 549.6 | 197.9 | 218.8 |
| 87.5° | 1469.4 | 1626.7 | 1830.3 | 1342.4 | 1072.3 | 950.0 | 1209.7 | 1591.6 | 177.0 | 123.3 | 88.6 |
| 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: P269482

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL4-7027-600

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3476.7 | 3476.7 | 3476.7 | 3476.7 | 3476.7 | 3476.7 | 3476.7 | 3476.7 | 3476.7 | 3476.7 | 3476.7 |
| 2.5° | 3434.8 | 3416.2 | 3385.9 | 3359.1 | 3317.3 | 3295.1 | 3270.5 | 3253.1 | 3239.2 | 3227.5 | 3246.1 |
| 5° | 3328.8 | 3293.9 | 3229.9 | 3161.1 | 3079.7 | 3015.6 | 2962.2 | 2912.0 | 2877.1 | 2853.7 | 2870.1 |
| 7.5° | 3228.7 | 3171.6 | 3071.6 | 2946.9 | 2807.3 | 2688.4 | 2590.6 | 2504.5 | 2445.0 | 2406.6 | 2421.8 |
| 10° | 3171.6 | 3100.6 | 2945.8 | 2750.3 | 2544.1 | 2358.9 | 2205.2 | 2072.5 | 1980.6 | 1928.1 | 1936.2 |
| 12.5° | 3157.7 | 3065.6 | 2851.5 | 2582.4 | 2300.6 | 2043.5 | 1826.9 | 1642.9 | 1513.6 | 1446.1 | 1448.4 |
| 15° | 3168.1 | 3050.6 | 2762.9 | 2421.8 | 2065.6 | 1740.6 | 1470.5 | 1246.9 | 1096.8 | 1019.9 | 1018.8 |
| 17.5° | 3185.6 | 3039.0 | 2669.9 | 2248.4 | 1826.9 | 1449.7 | 1148.0 | 929.1 | 796.3 | 734.8 | 730.1 |
| 20° | 3204.3 | 3020.3 | 2565.0 | 2060.9 | 1578.9 | 1179.5 | 898.8 | 727.6 | 643.8 | 610.0 | 607.9 |
| 22.5° | 3231.1 | 3004.0 | 2456.8 | 1862.9 | 1335.5 | 960.6 | 739.3 | 624.1 | 579.9 | 562.3 | 560.1 |
| 25° | 3274.1 | 2995.8 | 2341.5 | 1656.8 | 1116.7 | 803.4 | 643.8 | 572.8 | 547.2 | 535.6 | 534.4 |
| 27.5° | 3346.2 | 3007.4 | 2233.1 | 1456.6 | 938.5 | 697.4 | 590.4 | 547.2 | 528.7 | 518.1 | 517.0 |
| 30° | 3439.4 | 3043.5 | 2119.1 | 1266.8 | 799.9 | 625.2 | 557.7 | 529.8 | 514.5 | 504.2 | 504.2 |
| 32.5° | 3594.3 | 3104.2 | 1999.2 | 1102.6 | 700.9 | 575.2 | 533.2 | 514.5 | 501.9 | 493.7 | 492.5 |
| 35° | 3822.5 | 3218.3 | 1887.3 | 966.3 | 629.9 | 539.2 | 512.4 | 498.3 | 488.9 | 484.4 | 484.4 |
| 37.5° | 4154.3 | 3398.6 | 1788.4 | 868.7 | 586.9 | 514.5 | 492.5 | 482.0 | 476.2 | 476.2 | 476.2 |
| 40° | 4600.3 | 3647.8 | 1708.0 | 803.4 | 562.3 | 497.2 | 477.4 | 469.3 | 465.7 | 466.8 | 466.8 |
| 42.5° | 5151.1 | 3971.5 | 1654.5 | 758.0 | 550.8 | 486.7 | 466.8 | 459.9 | 456.3 | 455.3 | 456.3 |
| 45° | 5778.5 | 4339.5 | 1648.7 | 724.3 | 539.2 | 479.8 | 459.9 | 452.9 | 446.0 | 441.2 | 441.2 |
| 47.5° | 6388.7 | 4713.2 | 1696.4 | 712.5 | 526.2 | 471.6 | 454.2 | 447.0 | 436.7 | 426.2 | 426.2 |
| 50° | 6927.8 | 5031.0 | 1760.5 | 717.2 | 521.6 | 459.9 | 444.8 | 441.2 | 425.0 | 413.3 | 412.2 |
| 52.5° | 7356.3 | 5275.7 | 1812.9 | 731.2 | 526.2 | 451.8 | 433.2 | 434.3 | 416.9 | 404.0 | 402.9 |
| 55° | 7699.7 | 5436.4 | 1798.9 | 745.1 | 536.7 | 447.0 | 422.7 | 425.0 | 411.1 | 398.2 | 398.2 |
| 57.5° | 7850.0 | 5377.0 | 1644.1 | 733.6 | 544.9 | 448.3 | 414.5 | 423.8 | 412.2 | 400.6 | 400.6 |
| 60° | 7527.4 | 4849.5 | 1354.1 | 682.4 | 534.4 | 444.8 | 411.1 | 428.5 | 427.4 | 415.6 | 414.5 |
| 62.5° | 6551.7 | 3905.2 | 1050.2 | 606.6 | 498.3 | 427.4 | 401.7 | 427.4 | 440.1 | 436.7 | 435.5 |
| 65° | 5049.7 | 2781.6 | 802.2 | 525.1 | 449.4 | 398.2 | 377.3 | 400.6 | 418.0 | 422.7 | 421.5 |
| 67.5° | 3277.6 | 1704.7 | 618.3 | 448.3 | 394.7 | 364.4 | 345.8 | 356.3 | 359.9 | 359.9 | 357.4 |
| 70° | 1611.4 | 917.4 | 492.5 | 377.3 | 338.8 | 328.3 | 317.9 | 312.0 | 306.2 | 301.7 | 301.7 |
| 72.5° | 795.2 | 599.6 | 405.1 | 319.0 | 292.3 | 287.5 | 285.2 | 278.3 | 273.7 | 267.9 | 265.4 |
| 75° | 588.0 | 487.9 | 344.6 | 269.0 | 251.4 | 246.9 | 251.4 | 245.6 | 244.5 | 239.8 | 237.5 |
| 77.5° | 483.2 | 415.6 | 296.9 | 230.5 | 215.5 | 207.2 | 214.2 | 215.5 | 216.6 | 209.6 | 207.2 |
| 80° | 392.4 | 351.6 | 248.0 | 191.0 | 177.0 | 171.1 | 175.8 | 185.1 | 187.4 | 177.0 | 172.4 |
| 82.5° | 283.0 | 287.5 | 200.2 | 148.9 | 137.4 | 132.7 | 142.0 | 153.7 | 156.0 | 140.9 | 137.4 |
| 85° | 237.5 | 239.8 | 153.7 | 106.0 | 94.3 | 87.3 | 102.4 | 114.2 | 122.3 | 107.1 | 103.7 |
| 87.5° | 99.0 | 140.9 | 88.6 | 59.4 | 52.5 | 45.5 | 54.7 | 60.5 | 73.3 | 67.6 | 66.4 |
| 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)