

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: P269184

Luminaire Tested: **GLEON-AF-03-LED-E1-T2R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269184
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-03-LED-E1-T2R-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18044.5 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

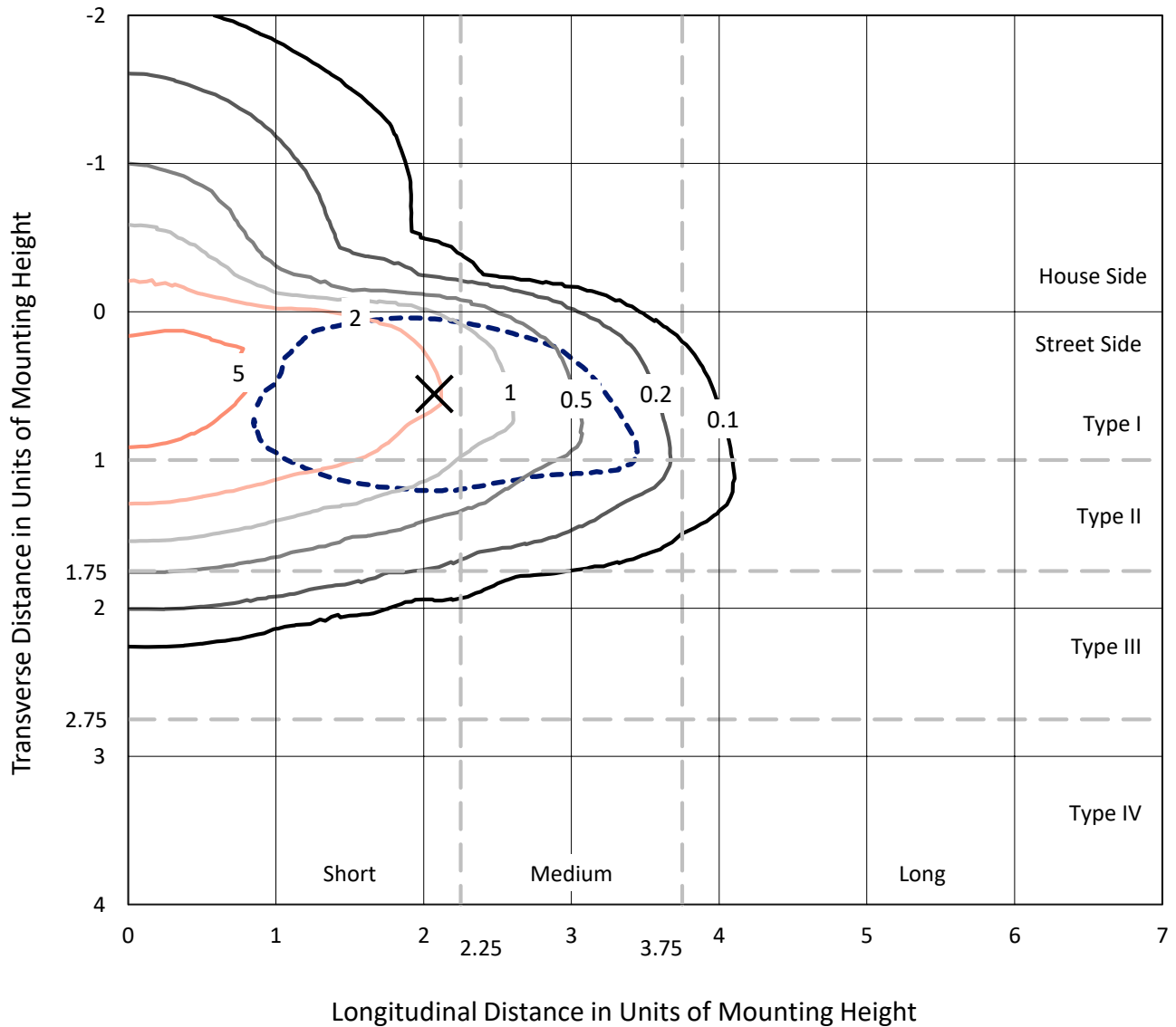
Input Watts (W): 191
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

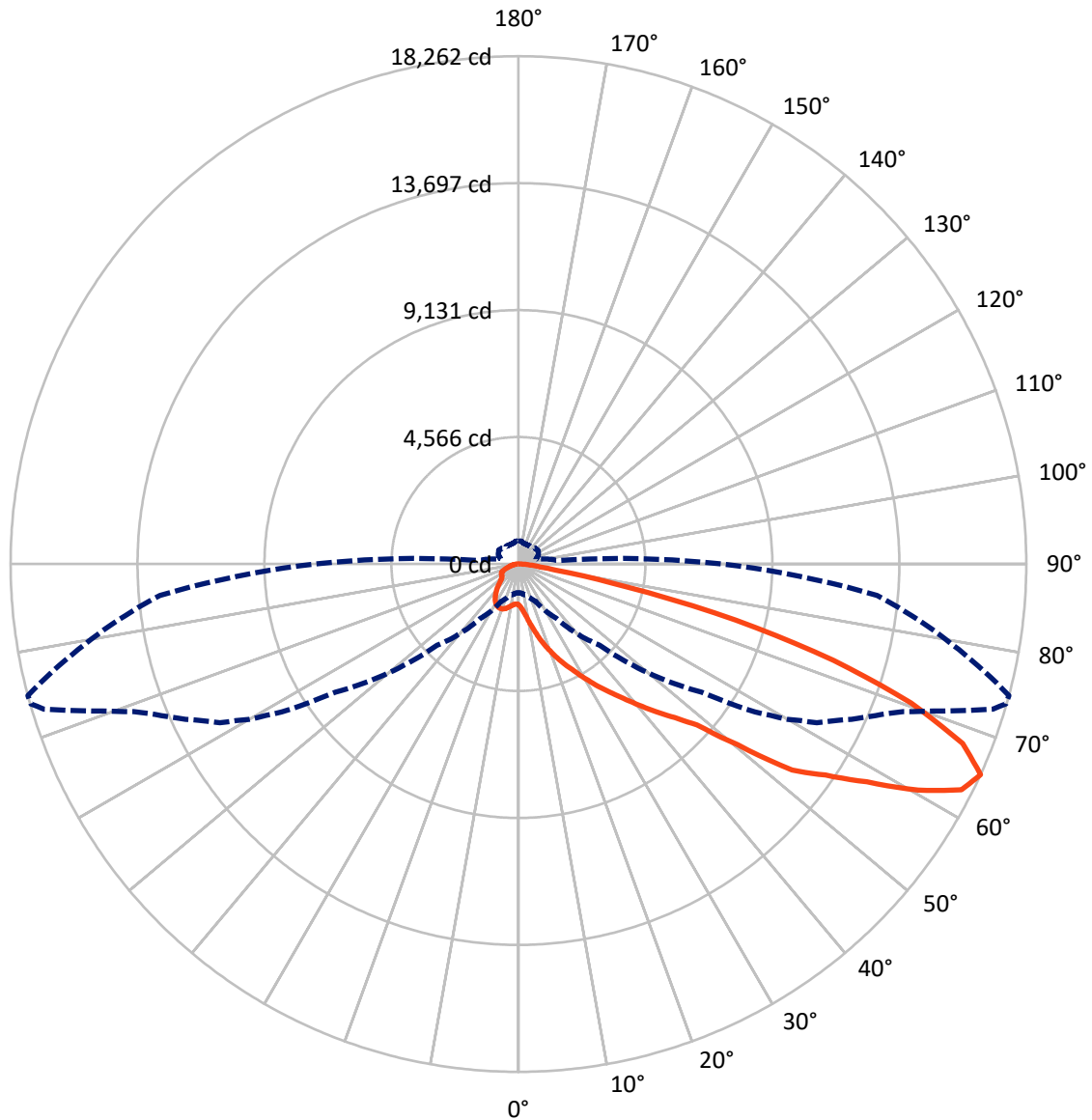
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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 | 2782.1 | 0.0 | 2782.1 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 15262.5 | 0.0 | 15262.5 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 18044.5 | 0.0 | 18044.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 181.3 | 1.0 |
| 10°-20° | 708.2 | 3.9 |
| 20°-30° | 1453.0 | 8.1 |
| 30°-40° | 2444.7 | 13.5 |
| 40°-50° | 3377.8 | 18.7 |
| 50°-60° | 4216.6 | 23.4 |
| 60°-70° | 3794.5 | 21.0 |
| 70°-80° | 1590.6 | 8.8 |
| 80°-90° | 277.9 | 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° | 18044.5 | 100.0 |
| 0°-180° | 18044.5 | 100.0 |

Coefficient of Utilization



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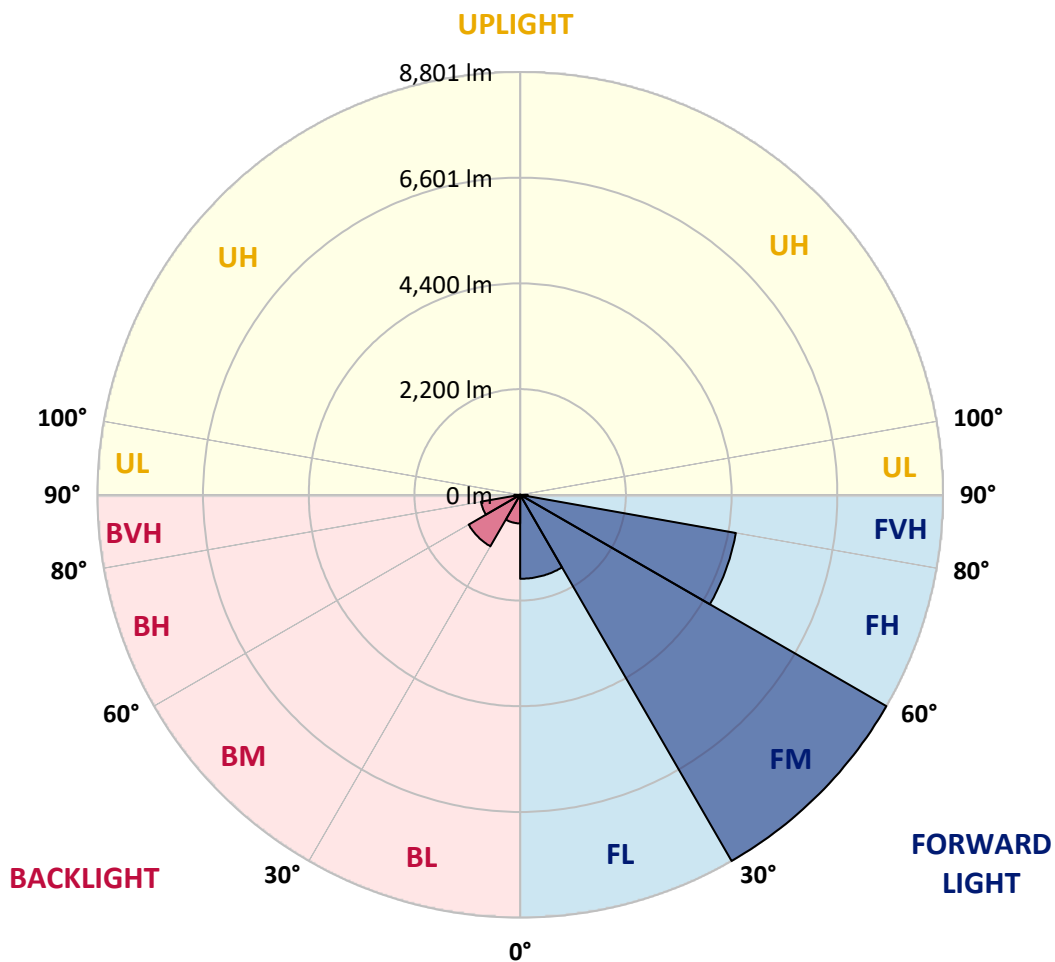
CATALOG NUMBER: GLEON-AF-03-LED-E1-T2R-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1747.6 | 9.7 | | | |
| FM (30°-60°) | 8800.8 | 48.8 | | | |
| FH (60°-80°) | 4558.0 | 25.3 | | | G2/5000 |
| FVH (80°-90°) | 156.2 | 0.9 | | | G2/225 |
| BL (0°-30°) | 595.0 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 1238.3 | 6.9 | B2/2500 | | |
| BH (60°-80°) | 827.1 | 4.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 121.7 | 0.7 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 |
| 2.5° | 1861.8 | 1841.4 | 1846.6 | 1812.4 | 1770.5 | 1715.9 | 1655.1 | 1654.4 | 1655.1 | 1649.3 | 1627.0 |
| 5° | 2581.9 | 2557.1 | 2547.8 | 2470.9 | 2358.1 | 2197.6 | 2023.3 | 2004.6 | 1996.8 | 1977.2 | 1932.0 |
| 7.5° | 3107.1 | 3093.6 | 3079.0 | 3020.9 | 2918.5 | 2739.0 | 2505.1 | 2464.9 | 2426.4 | 2417.1 | 2365.9 |
| 10° | 3446.3 | 3442.8 | 3412.0 | 3396.8 | 3332.6 | 3177.1 | 2949.1 | 2910.7 | 2868.8 | 2854.4 | 2800.6 |
| 12.5° | 3714.4 | 3713.6 | 3699.0 | 3703.4 | 3647.7 | 3535.1 | 3338.6 | 3303.5 | 3272.9 | 3228.5 | 3190.1 |
| 15° | 3899.7 | 3900.6 | 3922.0 | 3945.9 | 3937.4 | 3861.4 | 3676.9 | 3661.4 | 3635.0 | 3604.2 | 3558.9 |
| 17.5° | 4051.7 | 4056.0 | 4078.2 | 4121.9 | 4168.8 | 4162.8 | 4016.7 | 4003.9 | 3980.8 | 3939.1 | 3915.2 |
| 20° | 4395.0 | 4411.3 | 4368.6 | 4368.6 | 4373.8 | 4396.8 | 4326.7 | 4316.5 | 4284.0 | 4261.9 | 4243.1 |
| 22.5° | 4975.1 | 4993.9 | 4897.3 | 4799.1 | 4702.5 | 4632.6 | 4562.5 | 4575.3 | 4553.1 | 4537.8 | 4526.6 |
| 25° | 5728.3 | 5742.9 | 5586.6 | 5420.9 | 5224.5 | 4968.3 | 4794.9 | 4787.2 | 4775.2 | 4765.8 | 4760.7 |
| 27.5° | 6437.3 | 6443.3 | 6295.4 | 6052.9 | 5824.9 | 5456.8 | 5030.6 | 5021.2 | 5006.7 | 4988.6 | 4973.3 |
| 30° | 7043.6 | 7042.0 | 6889.9 | 6658.4 | 6414.2 | 6006.7 | 5388.5 | 5359.4 | 5316.7 | 5268.0 | 5230.4 |
| 32.5° | 7568.8 | 7566.3 | 7399.8 | 7159.9 | 6903.6 | 6551.7 | 5878.7 | 5819.0 | 5752.2 | 5657.4 | 5600.3 |
| 35° | 7982.2 | 7980.5 | 7823.3 | 7573.3 | 7279.3 | 7065.0 | 6440.7 | 6367.1 | 6282.7 | 6155.4 | 6067.4 |
| 37.5° | 8138.6 | 8138.6 | 8050.6 | 7879.8 | 7620.1 | 7473.2 | 7065.0 | 6976.1 | 6885.7 | 6741.3 | 6642.2 |
| 40° | 8047.1 | 8049.0 | 8067.7 | 8036.1 | 7909.7 | 7797.0 | 7647.5 | 7594.5 | 7516.7 | 7387.0 | 7283.6 |
| 42.5° | 7740.5 | 7749.9 | 7874.6 | 8027.6 | 8090.8 | 8072.8 | 8164.2 | 8140.4 | 8085.6 | 7985.8 | 7903.6 |
| 45° | 7352.0 | 7381.1 | 7517.6 | 7806.4 | 8141.1 | 8311.1 | 8597.1 | 8599.7 | 8589.6 | 8535.8 | 8472.5 |
| 47.5° | 6818.1 | 6859.2 | 7039.4 | 7429.7 | 8023.3 | 8542.5 | 9037.0 | 9060.1 | 9081.4 | 9046.6 | 9017.5 |
| 50° | 6109.3 | 6157.9 | 6427.8 | 6945.4 | 7783.3 | 8782.5 | 9868.2 | 9972.4 | 10069.7 | 10057.8 | 10077.4 |
| 52.5° | 5349.9 | 5407.2 | 5737.7 | 6314.2 | 7370.8 | 8838.1 | 10399.4 | 10569.3 | 10739.2 | 10878.5 | 11026.2 |
| 55° | 4665.0 | 4634.3 | 4964.8 | 5572.0 | 6692.6 | 8587.8 | 10876.8 | 11081.8 | 11271.4 | 11442.3 | 11618.0 |
| 57.5° | 3736.6 | 3787.1 | 4118.4 | 4718.8 | 5795.0 | 7881.5 | 11205.5 | 11505.4 | 11777.9 | 12060.6 | 12310.0 |
| 60° | 2731.3 | 2781.7 | 3141.4 | 3751.1 | 4820.5 | 6810.5 | 10954.6 | 11408.8 | 11845.3 | 12278.4 | 12616.5 |
| 62.5° | 1649.3 | 1686.7 | 2003.7 | 2584.5 | 3716.9 | 5540.4 | 9835.6 | 10431.7 | 11074.0 | 11591.6 | 12110.1 |
| 65° | 1026.7 | 1048.0 | 1165.0 | 1484.4 | 2387.2 | 4136.3 | 8036.1 | 8686.0 | 9377.9 | 10034.6 | 10573.6 |
| 67.5° | 840.5 | 848.1 | 869.5 | 937.8 | 1311.0 | 2697.3 | 5981.2 | 6556.8 | 7181.1 | 7816.6 | 8416.1 |
| 70° | 755.8 | 750.8 | 750.8 | 755.0 | 840.5 | 1450.3 | 3916.0 | 4290.9 | 4811.1 | 5363.7 | 5911.9 |
| 72.5° | 682.4 | 677.3 | 667.9 | 655.0 | 685.9 | 884.8 | 2024.2 | 2306.8 | 2681.8 | 3173.0 | 3698.2 |
| 75° | 613.3 | 606.4 | 595.2 | 579.0 | 600.4 | 667.9 | 972.0 | 1090.6 | 1273.4 | 1534.8 | 1827.7 |
| 77.5° | 541.5 | 533.0 | 522.8 | 510.7 | 538.1 | 519.3 | 569.6 | 612.4 | 682.4 | 766.2 | 876.2 |
| 80° | 460.3 | 452.7 | 449.2 | 443.3 | 475.7 | 395.4 | 402.4 | 428.8 | 469.8 | 515.0 | 566.2 |
| 82.5° | 360.4 | 360.4 | 374.1 | 376.7 | 412.5 | 284.5 | 300.7 | 323.7 | 345.0 | 368.9 | 392.9 |
| 85° | 237.4 | 239.2 | 285.2 | 303.2 | 325.4 | 191.2 | 225.5 | 233.2 | 250.3 | 263.9 | 274.2 |
| 87.5° | 74.3 | 80.3 | 174.2 | 193.0 | 187.0 | 108.4 | 138.3 | 141.8 | 153.7 | 163.1 | 171.7 |
| 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-03-LED-E1-T2R-7027-1200

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 |
| 2.5° | 1627.0 | 1616.8 | 1607.3 | 1606.4 | 1599.7 | 1590.3 | 1593.8 | 1579.2 | 1580.1 | 1572.4 | 1563.8 |
| 5° | 1913.1 | 1906.4 | 1872.2 | 1862.7 | 1837.2 | 1821.0 | 1818.3 | 1784.2 | 1779.9 | 1760.3 | 1738.8 |
| 7.5° | 2324.9 | 2302.6 | 2254.7 | 2231.7 | 2188.2 | 2155.8 | 2140.3 | 2095.0 | 2072.8 | 2021.6 | 1998.5 |
| 10° | 2756.1 | 2728.0 | 2669.0 | 2636.5 | 2594.8 | 2542.7 | 2514.4 | 2448.7 | 2423.1 | 2376.0 | 2319.8 |
| 12.5° | 3155.8 | 3127.7 | 3067.1 | 3042.3 | 2986.8 | 2931.2 | 2900.4 | 2826.2 | 2792.9 | 2717.7 | 2673.3 |
| 15° | 3525.7 | 3497.6 | 3444.6 | 3418.9 | 3363.3 | 3318.1 | 3277.1 | 3203.6 | 3164.4 | 3094.3 | 3036.4 |
| 17.5° | 3884.5 | 3854.4 | 3808.4 | 3785.3 | 3731.5 | 3685.3 | 3641.0 | 3571.8 | 3531.6 | 3461.6 | 3409.4 |
| 20° | 4217.5 | 4195.3 | 4161.9 | 4131.2 | 4077.3 | 4035.5 | 3982.5 | 3922.8 | 3864.8 | 3813.5 | 3764.0 |
| 22.5° | 4507.9 | 4499.3 | 4463.5 | 4449.8 | 4403.6 | 4367.7 | 4321.7 | 4262.7 | 4220.9 | 4156.0 | 4109.8 |
| 25° | 4758.1 | 4755.5 | 4738.5 | 4734.2 | 4701.6 | 4667.6 | 4657.4 | 4608.7 | 4570.1 | 4512.9 | 4465.1 |
| 27.5° | 4973.3 | 4975.9 | 4971.6 | 4983.5 | 4975.1 | 4959.6 | 4960.5 | 4944.4 | 4922.2 | 4874.3 | 4832.4 |
| 30° | 5212.4 | 5198.9 | 5206.4 | 5223.6 | 5228.8 | 5230.4 | 5258.6 | 5268.0 | 5266.4 | 5234.8 | 5214.2 |
| 32.5° | 5550.6 | 5518.3 | 5488.4 | 5485.8 | 5502.8 | 5509.8 | 5557.5 | 5582.2 | 5603.6 | 5611.4 | 5614.8 |
| 35° | 5982.1 | 5917.0 | 5854.8 | 5821.5 | 5792.5 | 5800.0 | 5834.2 | 5874.3 | 5921.4 | 5953.8 | 5992.2 |
| 37.5° | 6525.2 | 6445.8 | 6335.6 | 6257.1 | 6237.4 | 6194.7 | 6216.9 | 6248.5 | 6294.7 | 6345.0 | 6411.7 |
| 40° | 7183.7 | 7063.4 | 6939.4 | 6835.3 | 6778.9 | 6700.3 | 6699.4 | 6693.5 | 6721.7 | 6768.5 | 6862.6 |
| 42.5° | 7817.4 | 7710.7 | 7579.2 | 7469.9 | 7396.4 | 7291.4 | 7270.0 | 7214.5 | 7227.3 | 7268.2 | 7359.6 |
| 45° | 8411.0 | 8323.1 | 8242.8 | 8116.4 | 8054.1 | 7940.4 | 7904.5 | 7838.8 | 7802.0 | 7820.9 | 7912.2 |
| 47.5° | 8985.8 | 8929.4 | 8845.8 | 8763.8 | 8716.0 | 8614.2 | 8568.2 | 8521.2 | 8474.3 | 8472.5 | 8568.2 |
| 50° | 10106.4 | 10076.5 | 9977.5 | 9892.0 | 9915.0 | 9790.4 | 9798.1 | 9671.6 | 9728.9 | 9735.7 | 9936.4 |
| 52.5° | 11159.5 | 11263.7 | 11337.1 | 11426.8 | 11484.9 | 11496.0 | 11534.3 | 11591.6 | 11660.8 | 11797.5 | 11983.7 |
| 55° | 11762.4 | 11893.1 | 11969.1 | 12037.5 | 12150.2 | 12174.1 | 12238.1 | 12314.1 | 12374.8 | 12528.7 | 12686.6 |
| 57.5° | 12479.1 | 12721.5 | 12839.5 | 12947.9 | 13100.0 | 13158.1 | 13264.8 | 13347.6 | 13426.2 | 13608.2 | 13799.5 |
| 60° | 12920.6 | 13216.1 | 13456.2 | 13627.7 | 13818.3 | 13954.9 | 14116.3 | 14246.1 | 14430.6 | 14648.4 | 14933.7 |
| 62.5° | 12569.5 | 13003.4 | 13322.0 | 13616.7 | 13875.5 | 14136.7 | 14368.3 | 14610.8 | 14890.9 | 15220.6 | 15663.0 |
| 65° | 11171.4 | 11613.0 | 12158.7 | 12464.5 | 12807.0 | 13210.1 | 13562.0 | 13954.9 | 14336.7 | 14816.6 | 15470.9 |
| 67.5° | 8993.6 | 9506.9 | 10120.0 | 10428.3 | 10822.2 | 11272.2 | 11666.7 | 12146.8 | 12592.6 | 13174.3 | 13983.0 |
| 70° | 6482.4 | 7146.1 | 7662.1 | 7984.0 | 8443.4 | 8907.2 | 9288.1 | 9846.7 | 10215.7 | 10811.9 | 11648.1 |
| 72.5° | 4104.7 | 4628.2 | 5260.4 | 5666.0 | 6074.2 | 6544.1 | 6933.5 | 7415.1 | 7759.4 | 8302.6 | 9060.1 |
| 75° | 2207.0 | 2593.0 | 3148.2 | 3533.4 | 3970.7 | 4372.1 | 4828.1 | 5151.1 | 5405.6 | 5835.1 | 6450.0 |
| 77.5° | 1034.3 | 1269.1 | 1550.1 | 1846.6 | 2142.8 | 2452.1 | 2752.8 | 3014.1 | 3123.3 | 3369.4 | 3732.4 |
| 80° | 627.7 | 703.7 | 785.7 | 877.1 | 1001.0 | 1101.0 | 1233.4 | 1329.0 | 1335.8 | 1413.6 | 1524.6 |
| 82.5° | 419.4 | 447.5 | 472.2 | 495.3 | 526.9 | 551.6 | 579.9 | 613.3 | 626.8 | 644.9 | 680.6 |
| 85° | 286.1 | 299.8 | 305.0 | 319.4 | 316.1 | 324.6 | 335.6 | 346.7 | 352.8 | 351.9 | 368.1 |
| 87.5° | 176.0 | 182.7 | 186.2 | 189.6 | 187.0 | 183.7 | 188.7 | 194.8 | 196.4 | 191.2 | 193.0 |
| 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° | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 |
| 2.5° | 1565.6 | 1557.8 | 1550.1 | 1545.1 | 1543.4 | 1498.1 | 1478.4 | 1465.7 | 1438.2 | 1416.1 | 1398.1 |
| 5° | 1726.9 | 1710.7 | 1697.9 | 1682.5 | 1674.0 | 1559.5 | 1517.6 | 1488.8 | 1440.8 | 1412.7 | 1387.1 |
| 7.5° | 1986.6 | 1941.3 | 1914.8 | 1885.0 | 1859.3 | 1652.6 | 1583.5 | 1538.2 | 1471.7 | 1434.1 | 1404.9 |
| 10° | 2281.2 | 2234.3 | 2192.5 | 2146.3 | 2106.2 | 1776.5 | 1675.7 | 1605.7 | 1517.6 | 1469.0 | 1430.6 |
| 12.5° | 2610.0 | 2563.9 | 2511.0 | 2452.1 | 2400.8 | 1933.6 | 1793.6 | 1693.7 | 1573.2 | 1508.3 | 1454.5 |
| 15° | 2998.7 | 2917.5 | 2853.5 | 2785.1 | 2725.4 | 2121.5 | 1931.0 | 1792.7 | 1632.2 | 1544.1 | 1472.4 |
| 17.5° | 3360.0 | 3274.5 | 3187.5 | 3127.7 | 3058.5 | 2332.4 | 2069.4 | 1893.4 | 1680.9 | 1567.3 | 1475.8 |
| 20° | 3712.8 | 3619.6 | 3544.4 | 3464.1 | 3391.6 | 2551.1 | 2217.1 | 1982.3 | 1712.4 | 1568.1 | 1454.5 |
| 22.5° | 4023.6 | 3965.5 | 3881.8 | 3794.7 | 3721.3 | 2769.8 | 2355.5 | 2057.5 | 1724.3 | 1548.5 | 1416.9 |
| 25° | 4377.3 | 4315.6 | 4213.2 | 4139.7 | 4057.7 | 2992.8 | 2491.4 | 2115.6 | 1717.6 | 1511.8 | 1358.9 |
| 27.5° | 4754.6 | 4686.4 | 4581.4 | 4504.5 | 4405.4 | 3224.1 | 2616.0 | 2157.4 | 1692.0 | 1451.9 | 1281.2 |
| 30° | 5148.5 | 5086.1 | 4982.7 | 4905.0 | 4805.0 | 3469.3 | 2755.3 | 2185.5 | 1640.8 | 1369.0 | 1190.7 |
| 32.5° | 5571.2 | 5519.0 | 5416.6 | 5335.5 | 5228.8 | 3735.0 | 2885.0 | 2194.1 | 1563.1 | 1270.9 | 1094.9 |
| 35° | 5972.7 | 5936.8 | 5850.5 | 5774.5 | 5663.5 | 3986.0 | 3022.5 | 2189.9 | 1470.7 | 1163.2 | 1007.8 |
| 37.5° | 6424.4 | 6403.1 | 6360.4 | 6263.8 | 6128.1 | 4326.7 | 3187.5 | 2171.9 | 1358.0 | 1056.4 | 941.2 |
| 40° | 6906.1 | 6907.8 | 6861.8 | 6795.9 | 6669.6 | 4740.1 | 3383.8 | 2136.9 | 1235.0 | 962.5 | 880.6 |
| 42.5° | 7416.0 | 7442.5 | 7420.3 | 7373.3 | 7252.0 | 5157.0 | 3618.7 | 2094.2 | 1115.4 | 871.1 | 820.8 |
| 45° | 8000.2 | 8032.6 | 8066.8 | 7997.7 | 7879.8 | 5707.0 | 3927.8 | 2038.8 | 986.5 | 795.2 | 779.8 |
| 47.5° | 8674.0 | 8725.3 | 8756.0 | 8756.9 | 8639.1 | 6388.6 | 4430.1 | 2005.3 | 872.1 | 743.8 | 760.1 |
| 50° | 10096.1 | 10112.4 | 10185.0 | 10311.4 | 10220.8 | 7966.1 | 5307.2 | 1984.8 | 794.3 | 712.3 | 745.7 |
| 52.5° | 12145.1 | 12323.6 | 12449.2 | 12440.5 | 12317.6 | 8967.9 | 5790.7 | 1879.0 | 748.2 | 700.4 | 738.8 |
| 55° | 12979.5 | 13202.4 | 13434.7 | 13496.2 | 13400.6 | 9822.8 | 6247.6 | 1773.1 | 726.0 | 708.9 | 741.3 |
| 57.5° | 14091.5 | 14467.4 | 14785.9 | 14919.9 | 14781.6 | 10916.9 | 6848.9 | 1717.6 | 719.2 | 731.9 | 757.6 |
| 60° | 15390.7 | 15855.3 | 16273.8 | 16514.6 | 16514.6 | 12174.1 | 7472.5 | 1694.6 | 709.8 | 766.2 | 784.8 |
| 62.5° | 16225.0 | 16907.4 | 17539.4 | 17892.3 | 17882.0 | 13049.6 | 7749.0 | 1616.0 | 688.5 | 790.0 | 822.5 |
| 65° | 16228.5 | 17039.9 | 17845.3 | 18241.5 | 18262.1 | 12941.9 | 7292.3 | 1427.1 | 649.1 | 793.5 | 860.0 |
| 67.5° | 14875.7 | 15740.8 | 16679.4 | 17122.8 | 17225.2 | 11913.6 | 6312.5 | 1173.5 | 585.1 | 759.2 | 873.7 |
| 70° | 12563.5 | 13408.3 | 14366.6 | 14802.1 | 14984.1 | 10155.9 | 5084.3 | 904.5 | 503.1 | 684.1 | 845.6 |
| 72.5° | 9898.0 | 10726.4 | 11393.6 | 11712.0 | 11853.9 | 7762.8 | 3702.5 | 683.3 | 412.5 | 576.5 | 769.5 |
| 75° | 7007.8 | 7629.6 | 7984.0 | 8054.9 | 8077.1 | 4679.5 | 2249.6 | 508.3 | 339.9 | 448.4 | 650.0 |
| 77.5° | 3955.2 | 4221.8 | 4192.7 | 4224.3 | 3961.3 | 1806.4 | 979.6 | 363.9 | 280.1 | 340.7 | 503.9 |
| 80° | 1544.1 | 1592.1 | 1495.5 | 1465.7 | 1344.4 | 672.1 | 432.2 | 253.6 | 223.8 | 258.0 | 352.8 |
| 82.5° | 680.6 | 703.0 | 682.4 | 687.6 | 657.6 | 346.7 | 258.8 | 183.7 | 170.8 | 188.7 | 234.0 |
| 85° | 375.0 | 381.8 | 380.1 | 391.2 | 375.0 | 138.3 | 123.0 | 112.7 | 119.6 | 128.1 | 150.3 |
| 87.5° | 182.7 | 184.5 | 178.6 | 187.8 | 181.9 | 70.1 | 60.6 | 64.0 | 70.1 | 71.8 | 71.8 |
| 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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| | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|
| 0° | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 | 1466.5 |
| 2.5° | 1385.4 | 1378.4 | 1379.3 | 1377.6 | 1374.2 | 1374.2 |
| 5° | 1373.4 | 1366.5 | 1366.5 | 1364.9 | 1360.6 | 1361.4 |
| 7.5° | 1385.4 | 1374.2 | 1369.9 | 1363.9 | 1358.0 | 1358.0 |
| 10° | 1399.0 | 1379.3 | 1367.4 | 1357.1 | 1349.4 | 1349.4 |
| 12.5° | 1409.3 | 1378.4 | 1358.9 | 1345.2 | 1337.4 | 1337.4 |
| 15° | 1412.7 | 1372.5 | 1345.2 | 1329.0 | 1322.1 | 1321.2 |
| 17.5° | 1401.5 | 1349.4 | 1316.1 | 1297.3 | 1288.8 | 1286.3 |
| 20° | 1367.4 | 1307.7 | 1267.5 | 1246.0 | 1234.1 | 1229.9 |
| 22.5° | 1316.1 | 1247.8 | 1200.9 | 1178.7 | 1163.2 | 1160.7 |
| 25° | 1244.4 | 1170.9 | 1124.9 | 1103.5 | 1094.9 | 1092.3 |
| 27.5° | 1160.7 | 1092.3 | 1053.2 | 1039.3 | 1031.8 | 1030.8 |
| 30° | 1081.3 | 1023.2 | 994.2 | 984.0 | 974.5 | 972.9 |
| 32.5° | 1007.0 | 970.2 | 959.1 | 944.6 | 922.4 | 919.9 |
| 35° | 954.0 | 950.5 | 943.0 | 910.4 | 883.2 | 875.5 |
| 37.5° | 921.5 | 953.1 | 913.8 | 849.7 | 830.2 | 828.4 |
| 40° | 902.7 | 926.7 | 859.1 | 837.0 | 838.7 | 837.0 |
| 42.5° | 860.0 | 884.8 | 860.9 | 850.7 | 857.5 | 859.1 |
| 45° | 817.4 | 844.6 | 873.7 | 867.0 | 883.2 | 883.2 |
| 47.5° | 793.5 | 834.4 | 872.9 | 872.9 | 896.8 | 905.3 |
| 50° | 766.2 | 825.9 | 859.1 | 871.1 | 890.0 | 883.2 |
| 52.5° | 764.4 | 811.3 | 839.6 | 860.9 | 869.5 | 861.7 |
| 55° | 767.0 | 799.4 | 820.0 | 843.9 | 854.1 | 854.9 |
| 57.5° | 770.3 | 792.6 | 806.3 | 817.4 | 848.1 | 848.1 |
| 60° | 778.9 | 786.6 | 794.3 | 800.3 | 840.5 | 841.3 |
| 62.5° | 792.6 | 780.6 | 778.9 | 784.8 | 836.1 | 832.6 |
| 65° | 814.0 | 772.2 | 759.2 | 765.3 | 831.9 | 821.6 |
| 67.5° | 843.0 | 759.2 | 734.5 | 738.8 | 828.4 | 806.3 |
| 70° | 869.5 | 738.8 | 703.7 | 699.5 | 796.0 | 756.7 |
| 72.5° | 872.1 | 715.0 | 661.1 | 648.2 | 691.9 | 654.2 |
| 75° | 829.3 | 698.6 | 614.1 | 576.5 | 571.4 | 566.2 |
| 77.5° | 747.3 | 689.3 | 559.5 | 500.4 | 490.3 | 493.7 |
| 80° | 625.2 | 654.2 | 493.7 | 423.6 | 479.2 | 473.1 |
| 82.5° | 467.2 | 577.4 | 419.4 | 375.0 | 374.1 | 330.5 |
| 85° | 259.6 | 450.1 | 341.6 | 281.0 | 195.7 | 189.6 |
| 87.5° | 72.7 | 250.3 | 239.2 | 158.9 | 108.4 | 112.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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