

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: P269092

Luminaire Tested: **GLEON-AF-02-LED-E1-SLL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269092
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-02-LED-E1-SLL-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 10200.5 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 129
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

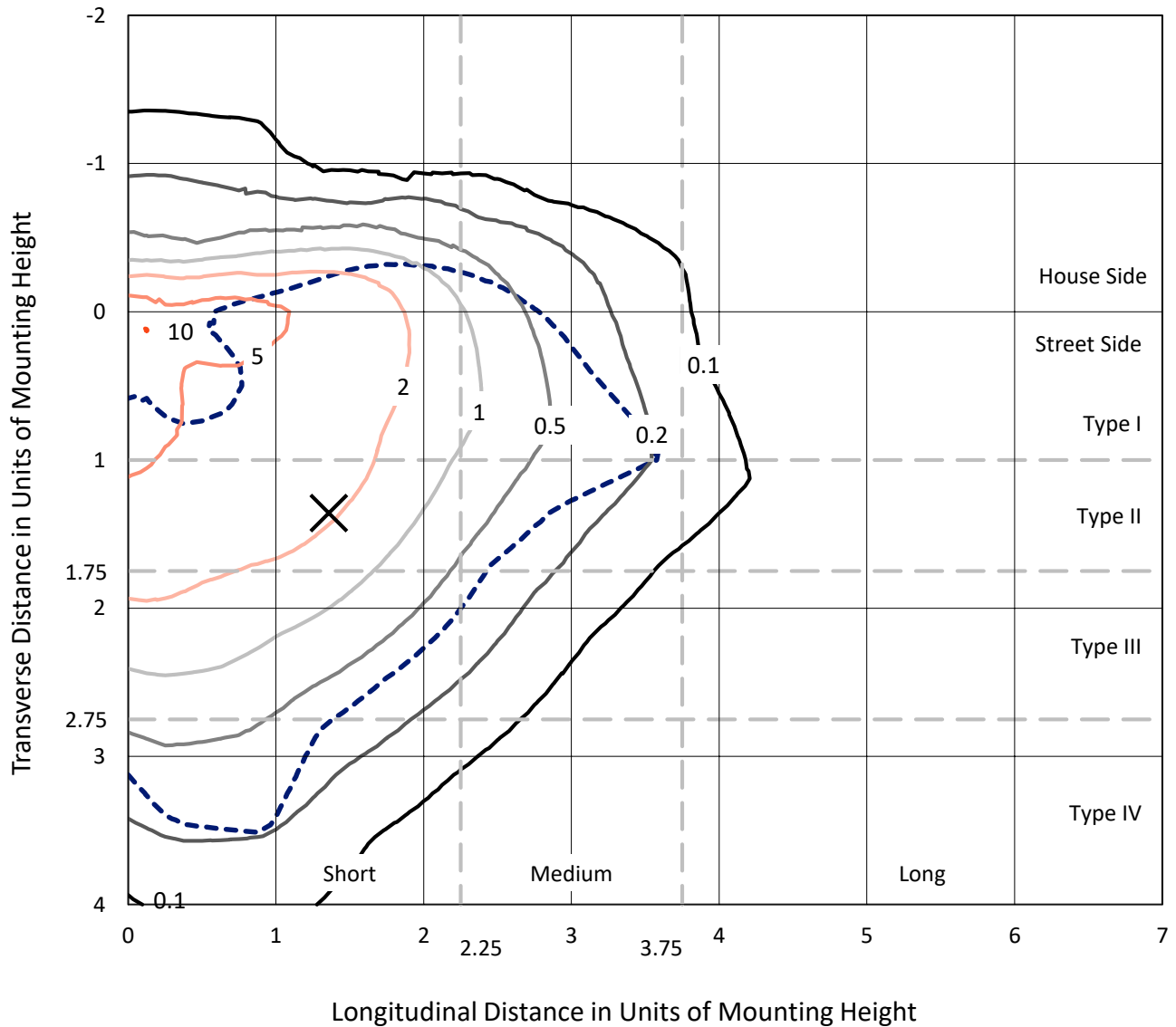


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

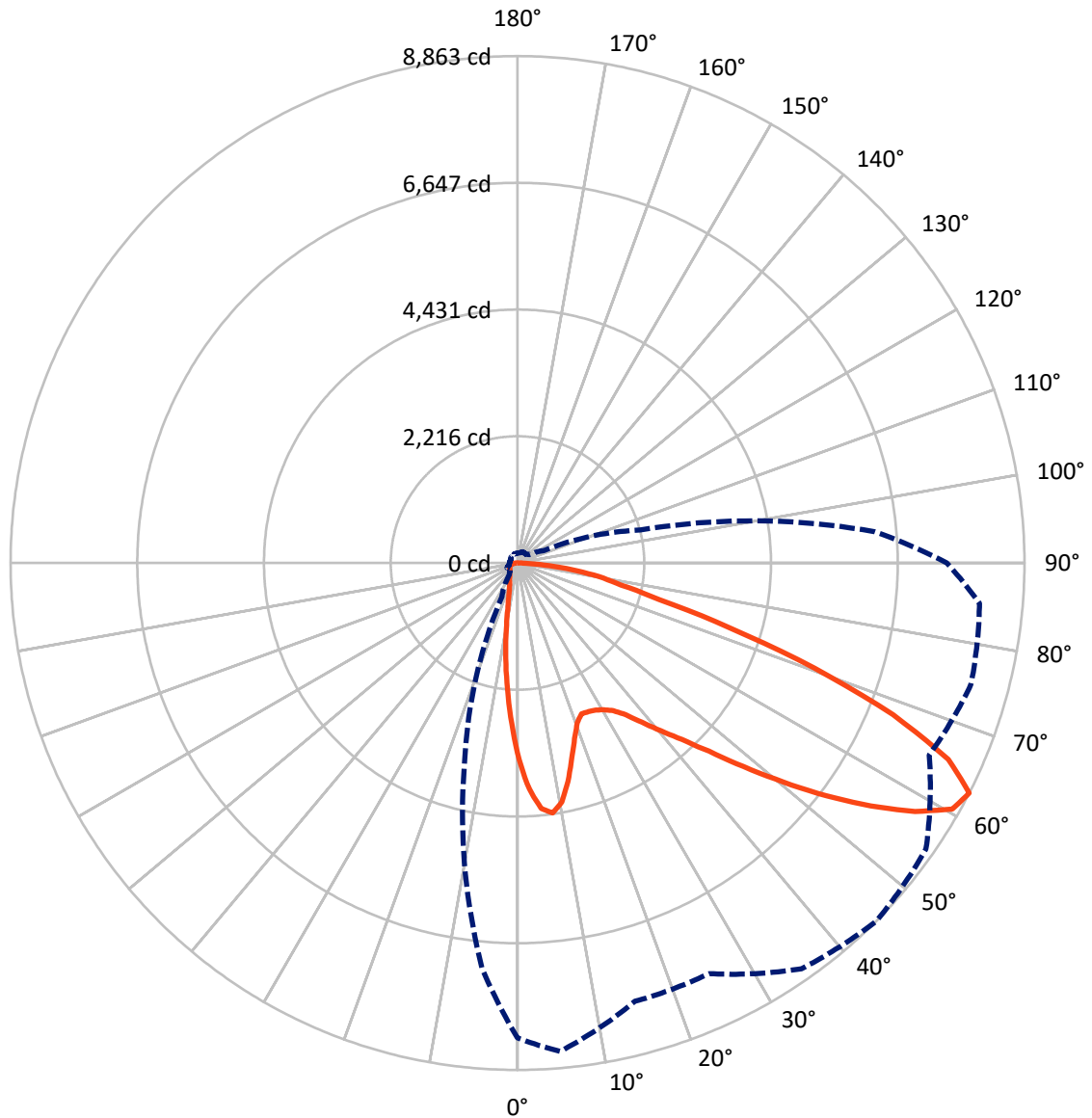


Based on 20 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - Non-Cutoff

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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 | 1688.0 | 0.0 | 1688.0 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 8512.5 | 0.0 | 8512.5 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 10200.5 | 0.0 | 10200.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 250.9 | 2.5 |
| 10°-20° | 460.0 | 4.5 |
| 20°-30° | 670.7 | 6.6 |
| 30°-40° | 1033.0 | 10.1 |
| 40°-50° | 1520.3 | 14.9 |
| 50°-60° | 2230.0 | 21.9 |
| 60°-70° | 2492.8 | 24.4 |
| 70°-80° | 1220.5 | 12.0 |
| 80°-90° | 322.2 | 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° | 10200.5 | 100.0 |
| 0°-180° | 10200.5 | 100.0 |

Coefficient of Utilization



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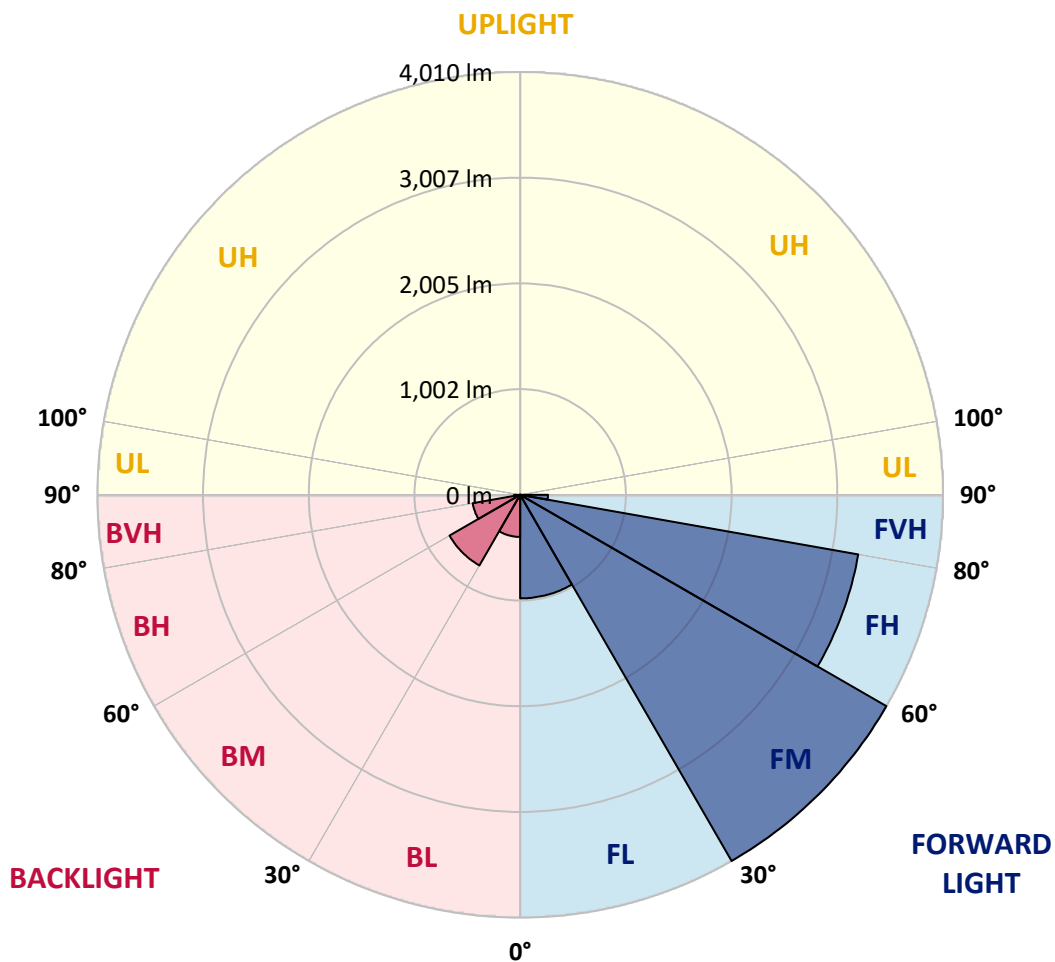
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 982.3 | 9.6 | | | |
| FM (30°-60°) | 4009.9 | 39.3 | | | |
| FH (60°-80°) | 3255.7 | 31.9 | | | G2/5000 |
| FVH (80°-90°) | 264.6 | 2.6 | | | G3/500 |
| BL (0°-30°) | 399.4 | 3.9 | B1/500 | | |
| BM (30°-60°) | 773.4 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 457.6 | 4.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 57.6 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P269092

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 |
| 2.5° | 3580.9 | 3638.0 | 3749.6 | 3833.2 | 3934.7 | 3958.2 | 3990.8 | 3958.8 | 3902.1 | 3827.0 | 3802.3 |
| 5° | 3367.2 | 3489.5 | 3760.3 | 3998.6 | 4210.5 | 4309.3 | 4336.7 | 4255.5 | 4091.2 | 3875.3 | 3743.4 |
| 7.5° | 3024.7 | 3198.4 | 3565.2 | 3916.3 | 4228.5 | 4413.1 | 4408.5 | 4219.6 | 3917.2 | 3565.7 | 3354.4 |
| 10° | 2729.1 | 2927.5 | 3348.2 | 3740.7 | 4072.0 | 4251.0 | 4182.0 | 3940.2 | 3579.7 | 3174.9 | 2945.5 |
| 12.5° | 2563.8 | 2758.2 | 3185.0 | 3579.1 | 3856.2 | 3917.9 | 3865.1 | 3628.6 | 3288.8 | 2879.3 | 2678.7 |
| 15° | 2535.0 | 2748.8 | 3120.0 | 3440.7 | 3596.1 | 3542.1 | 3479.3 | 3373.3 | 3133.4 | 2784.0 | 2574.9 |
| 17.5° | 2659.1 | 2894.5 | 3194.6 | 3344.2 | 3317.9 | 3224.2 | 3206.3 | 3218.1 | 3160.2 | 2890.0 | 2648.9 |
| 20° | 2896.8 | 3179.5 | 3372.2 | 3298.8 | 3106.5 | 2977.5 | 2982.1 | 3162.0 | 3333.0 | 3158.6 | 2883.3 |
| 22.5° | 3230.5 | 3552.8 | 3628.6 | 3322.9 | 3017.3 | 2864.2 | 2901.3 | 3192.8 | 3608.3 | 3551.2 | 3199.6 |
| 25° | 3662.2 | 3956.0 | 3901.6 | 3410.4 | 3026.3 | 2878.3 | 2908.1 | 3299.4 | 3933.6 | 3943.6 | 3591.0 |
| 27.5° | 4080.6 | 4352.9 | 4130.9 | 3526.4 | 3063.3 | 2911.3 | 2950.7 | 3467.1 | 4244.2 | 4369.9 | 4038.4 |
| 30° | 4406.8 | 4596.4 | 4221.8 | 3632.4 | 3136.3 | 2975.8 | 3024.7 | 3626.3 | 4385.5 | 4657.5 | 4382.7 |
| 32.5° | 4677.1 | 4813.4 | 4366.4 | 3763.7 | 3270.2 | 3077.4 | 3163.1 | 3819.8 | 4589.1 | 4931.2 | 4719.8 |
| 35° | 5022.6 | 5061.2 | 4546.4 | 3910.1 | 3477.1 | 3254.0 | 3360.5 | 4009.2 | 4783.0 | 5207.6 | 5051.7 |
| 37.5° | 5427.4 | 5377.4 | 4716.3 | 4110.3 | 3744.7 | 3530.3 | 3618.5 | 4217.4 | 4943.0 | 5521.1 | 5390.9 |
| 40° | 5827.8 | 5707.7 | 4929.4 | 4420.9 | 4134.9 | 3856.2 | 3960.4 | 4439.3 | 5092.0 | 5835.0 | 5722.4 |
| 42.5° | 6168.1 | 5990.3 | 5139.7 | 4762.4 | 4498.3 | 4215.7 | 4340.2 | 4663.1 | 5234.5 | 6103.1 | 6010.0 |
| 45° | 6419.8 | 6198.9 | 5340.0 | 5090.3 | 4999.0 | 4693.4 | 4752.3 | 4919.4 | 5388.8 | 6326.9 | 6246.6 |
| 47.5° | 6644.8 | 6408.7 | 5566.4 | 5421.2 | 5436.9 | 5314.6 | 5220.0 | 5217.6 | 5570.4 | 6509.6 | 6470.3 |
| 50° | 6945.9 | 6699.6 | 5809.8 | 5762.2 | 6094.1 | 6012.7 | 5803.6 | 5565.9 | 5800.3 | 6717.0 | 6712.6 |
| 52.5° | 7360.8 | 7160.6 | 6106.9 | 6129.5 | 6707.6 | 6760.9 | 6501.8 | 5984.1 | 6160.2 | 7097.8 | 7070.9 |
| 55° | 7851.5 | 7734.8 | 6511.9 | 6551.7 | 7460.1 | 7498.2 | 7240.8 | 6507.3 | 6689.6 | 7649.0 | 7574.5 |
| 57.5° | 8234.5 | 8209.8 | 6955.9 | 7058.5 | 8022.0 | 8193.5 | 7956.8 | 7113.0 | 7286.2 | 8113.3 | 7926.0 |
| 60° | 8386.9 | 8506.4 | 7428.7 | 7569.9 | 8541.8 | 8731.9 | 8524.3 | 7645.0 | 7815.0 | 8305.5 | 7901.9 |
| 62.5° | 8304.6 | 8571.4 | 7932.3 | 7920.4 | 8657.8 | 8862.5 | 8716.7 | 7941.1 | 8206.9 | 8107.2 | 7502.1 |
| 65° | 7923.8 | 8337.6 | 8224.3 | 7830.2 | 8260.8 | 8277.6 | 8230.5 | 7808.8 | 8299.5 | 7479.6 | 6729.5 |
| 67.5° | 7094.5 | 7689.9 | 7839.7 | 7056.4 | 7189.8 | 7080.4 | 7001.4 | 7084.4 | 7817.2 | 6539.3 | 5655.5 |
| 70° | 5778.3 | 6674.4 | 6746.2 | 5643.8 | 5583.2 | 5509.8 | 5352.2 | 5808.1 | 6865.7 | 5359.5 | 4487.7 |
| 72.5° | 4248.8 | 5190.8 | 5411.1 | 4139.4 | 3858.9 | 3874.1 | 3749.6 | 4377.1 | 5582.2 | 3981.3 | 3350.4 |
| 75° | 2906.8 | 3758.6 | 4233.5 | 2888.4 | 2551.9 | 2558.1 | 2542.5 | 3101.5 | 4446.2 | 2769.5 | 2507.1 |
| 77.5° | 2123.6 | 2685.4 | 3192.8 | 1941.9 | 1885.3 | 1850.4 | 1842.1 | 2170.0 | 3408.7 | 2010.8 | 1946.8 |
| 80° | 1704.1 | 1983.8 | 2144.9 | 1345.8 | 1447.3 | 1444.5 | 1397.9 | 1492.2 | 2226.1 | 1470.9 | 1456.2 |
| 82.5° | 1182.0 | 1524.7 | 1737.7 | 1054.7 | 976.7 | 960.6 | 971.7 | 1111.5 | 1573.4 | 1005.5 | 956.1 |
| 85° | 623.6 | 1012.7 | 1721.0 | 934.7 | 579.8 | 462.5 | 575.4 | 910.1 | 1363.2 | 532.8 | 466.5 |
| 87.5° | 79.6 | 292.7 | 1139.4 | 372.8 | 228.8 | 123.3 | 273.1 | 512.6 | 875.3 | 108.8 | 94.9 |
| 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-02-LED-E1-SLL-7027-1200

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 |
| 2.5° | 3738.9 | 3664.5 | 3566.8 | 3476.6 | 3382.9 | 3289.9 | 3168.1 | 3091.8 | 3039.1 | 3029.2 | 3006.6 |
| 5° | 3648.1 | 3400.4 | 3213.0 | 3051.0 | 2904.1 | 2696.6 | 2581.5 | 2486.2 | 2435.2 | 2430.3 | 2417.9 |
| 7.5° | 3229.2 | 2887.2 | 2634.3 | 2405.0 | 2197.0 | 2029.4 | 1844.3 | 1758.0 | 1722.6 | 1731.0 | 1739.4 |
| 10° | 2793.5 | 2411.2 | 2120.7 | 1886.4 | 1702.9 | 1561.7 | 1413.0 | 1312.8 | 1243.2 | 1229.2 | 1226.4 |
| 12.5° | 2475.1 | 2055.6 | 1773.7 | 1608.1 | 1466.4 | 1333.4 | 1175.9 | 1057.6 | 967.3 | 936.5 | 915.7 |
| 15° | 2340.5 | 1881.8 | 1586.3 | 1408.1 | 1251.6 | 1082.7 | 936.5 | 812.4 | 729.6 | 702.7 | 687.5 |
| 17.5° | 2369.1 | 1833.6 | 1457.4 | 1229.2 | 1029.0 | 852.9 | 668.3 | 562.3 | 512.6 | 499.5 | 499.5 |
| 20° | 2519.3 | 1824.6 | 1350.8 | 1064.3 | 814.8 | 610.7 | 459.3 | 398.7 | 382.4 | 380.7 | 385.3 |
| 22.5° | 2730.2 | 1856.1 | 1271.2 | 921.3 | 633.0 | 445.7 | 357.7 | 335.2 | 328.1 | 329.7 | 334.8 |
| 25° | 3044.3 | 1962.0 | 1213.4 | 794.0 | 496.9 | 365.0 | 319.1 | 305.7 | 302.2 | 306.7 | 312.9 |
| 27.5° | 3416.6 | 2068.0 | 1177.6 | 698.2 | 419.4 | 333.6 | 303.4 | 289.3 | 291.6 | 297.2 | 302.8 |
| 30° | 3743.4 | 2154.9 | 1120.9 | 629.7 | 395.3 | 335.2 | 303.4 | 284.4 | 282.1 | 283.1 | 284.9 |
| 32.5° | 4036.8 | 2213.9 | 1054.7 | 564.7 | 340.9 | 297.8 | 283.1 | 280.5 | 268.1 | 263.6 | 264.1 |
| 35° | 4289.6 | 2213.9 | 1014.9 | 526.5 | 305.7 | 264.1 | 240.6 | 226.6 | 220.4 | 221.0 | 227.1 |
| 37.5° | 4533.6 | 2169.4 | 995.3 | 505.2 | 286.5 | 251.3 | 230.4 | 218.1 | 209.8 | 208.0 | 209.1 |
| 40° | 4748.9 | 2105.0 | 972.9 | 496.3 | 271.9 | 243.4 | 223.8 | 213.6 | 204.6 | 201.8 | 202.4 |
| 42.5° | 4921.6 | 2052.8 | 948.3 | 484.5 | 262.9 | 237.7 | 219.2 | 210.3 | 200.2 | 197.4 | 196.8 |
| 45° | 5108.3 | 2035.5 | 915.7 | 460.9 | 267.4 | 238.3 | 218.1 | 208.5 | 198.4 | 195.1 | 194.0 |
| 47.5° | 5354.4 | 2089.8 | 882.0 | 433.0 | 276.9 | 241.1 | 219.8 | 208.5 | 197.9 | 195.1 | 194.0 |
| 50° | 5664.5 | 2217.7 | 839.5 | 392.0 | 267.4 | 249.0 | 219.2 | 206.9 | 197.9 | 195.1 | 192.9 |
| 52.5° | 6062.8 | 2390.4 | 783.3 | 344.9 | 261.9 | 268.1 | 218.1 | 203.6 | 195.1 | 191.2 | 187.2 |
| 55° | 6546.6 | 2531.8 | 716.6 | 306.1 | 249.0 | 262.9 | 216.4 | 199.7 | 190.6 | 185.1 | 181.6 |
| 57.5° | 6901.0 | 2582.7 | 630.8 | 280.9 | 231.0 | 254.6 | 214.2 | 194.6 | 185.1 | 180.6 | 176.1 |
| 60° | 6830.9 | 2484.1 | 558.4 | 265.2 | 220.4 | 229.8 | 212.4 | 190.1 | 180.0 | 176.6 | 172.7 |
| 62.5° | 6269.6 | 2226.1 | 511.9 | 258.0 | 213.6 | 209.8 | 214.2 | 185.6 | 175.4 | 172.1 | 171.0 |
| 65° | 5428.0 | 1845.4 | 493.4 | 256.2 | 208.0 | 197.9 | 199.1 | 180.6 | 170.5 | 167.7 | 166.5 |
| 67.5° | 4477.5 | 1489.3 | 477.2 | 261.9 | 200.7 | 189.5 | 184.0 | 173.8 | 165.4 | 162.7 | 160.3 |
| 70° | 3531.0 | 1238.7 | 470.0 | 258.5 | 191.8 | 181.1 | 175.0 | 166.5 | 159.3 | 156.5 | 154.8 |
| 72.5° | 2843.4 | 1046.3 | 466.0 | 255.1 | 180.0 | 169.9 | 164.3 | 157.1 | 149.2 | 148.0 | 146.3 |
| 75° | 2406.1 | 822.6 | 426.8 | 244.5 | 166.5 | 156.5 | 152.5 | 145.7 | 137.9 | 137.9 | 136.8 |
| 77.5° | 1856.1 | 594.9 | 354.9 | 216.4 | 152.5 | 141.4 | 137.9 | 132.9 | 124.0 | 125.7 | 125.0 |
| 80° | 1371.1 | 388.1 | 277.5 | 179.4 | 135.1 | 124.4 | 122.8 | 117.8 | 108.2 | 110.4 | 110.4 |
| 82.5° | 939.3 | 254.6 | 199.7 | 147.0 | 115.5 | 105.5 | 105.5 | 100.4 | 89.7 | 90.9 | 94.2 |
| 85° | 471.6 | 175.0 | 149.2 | 113.8 | 89.7 | 84.7 | 84.7 | 80.8 | 70.1 | 70.6 | 75.2 |
| 87.5° | 143.5 | 105.5 | 98.8 | 81.2 | 64.5 | 63.4 | 60.5 | 57.8 | 51.1 | 50.5 | 53.3 |
| 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-02-LED-E1-SLL-7027-1200

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 | 3446.3 |
| 2.5° | 2972.5 | 2940.5 | 2901.9 | 2816.5 | 2788.0 | 2786.4 | 2812.1 | 2785.1 | 2836.8 | 2814.8 | 2839.1 |
| 5° | 2397.1 | 2365.7 | 2322.6 | 2213.9 | 2147.6 | 2102.8 | 2081.5 | 2018.6 | 2064.0 | 2031.0 | 2058.5 |
| 7.5° | 1763.0 | 1770.2 | 1741.6 | 1677.8 | 1533.6 | 1461.4 | 1418.7 | 1380.5 | 1413.7 | 1410.2 | 1463.0 |
| 10° | 1239.2 | 1258.9 | 1238.7 | 1174.2 | 1057.6 | 1017.7 | 1025.5 | 1040.7 | 1084.0 | 1106.4 | 1187.6 |
| 12.5° | 892.1 | 890.9 | 878.2 | 820.3 | 743.5 | 748.0 | 780.0 | 806.4 | 846.2 | 869.6 | 952.7 |
| 15° | 666.2 | 656.0 | 650.5 | 603.3 | 559.6 | 569.2 | 584.8 | 587.6 | 612.9 | 626.8 | 694.2 |
| 17.5° | 503.5 | 508.6 | 514.8 | 481.1 | 448.1 | 441.8 | 429.5 | 414.4 | 421.7 | 424.4 | 458.1 |
| 20° | 399.7 | 420.0 | 435.0 | 411.6 | 377.9 | 360.0 | 344.3 | 334.2 | 334.2 | 333.6 | 343.2 |
| 22.5° | 349.4 | 364.0 | 380.3 | 364.0 | 333.6 | 317.9 | 308.9 | 301.1 | 300.0 | 300.0 | 308.9 |
| 25° | 321.9 | 332.6 | 348.3 | 337.0 | 314.5 | 302.8 | 294.4 | 284.4 | 280.5 | 279.3 | 285.4 |
| 27.5° | 308.4 | 312.9 | 320.8 | 310.6 | 291.6 | 286.0 | 283.8 | 274.7 | 269.8 | 266.8 | 273.1 |
| 30° | 285.4 | 284.4 | 284.9 | 274.7 | 259.6 | 259.0 | 262.9 | 264.7 | 262.9 | 262.5 | 271.9 |
| 32.5° | 264.1 | 261.9 | 261.2 | 252.3 | 238.3 | 234.9 | 238.3 | 241.6 | 245.5 | 251.3 | 262.5 |
| 35° | 237.2 | 242.8 | 246.1 | 238.3 | 221.5 | 211.5 | 207.5 | 201.3 | 197.9 | 197.9 | 210.8 |
| 37.5° | 216.0 | 228.8 | 233.7 | 226.6 | 208.0 | 194.0 | 187.2 | 186.2 | 186.7 | 189.0 | 201.3 |
| 40° | 208.5 | 218.1 | 222.6 | 215.4 | 196.8 | 184.0 | 180.0 | 178.9 | 180.0 | 183.3 | 195.7 |
| 42.5° | 204.2 | 210.8 | 210.3 | 201.3 | 186.2 | 177.1 | 175.0 | 173.8 | 175.0 | 178.4 | 191.8 |
| 45° | 200.2 | 204.6 | 200.2 | 189.5 | 175.4 | 171.0 | 171.5 | 171.0 | 172.1 | 175.4 | 188.5 |
| 47.5° | 196.8 | 198.4 | 192.9 | 182.3 | 167.7 | 166.5 | 168.8 | 170.5 | 171.5 | 174.5 | 187.8 |
| 50° | 191.8 | 191.8 | 186.7 | 175.4 | 160.9 | 161.4 | 164.3 | 168.3 | 168.8 | 172.1 | 182.7 |
| 52.5° | 185.6 | 185.1 | 181.6 | 171.0 | 155.3 | 157.1 | 157.1 | 161.4 | 162.7 | 166.5 | 177.8 |
| 55° | 180.6 | 179.4 | 177.8 | 167.7 | 150.2 | 153.2 | 151.5 | 153.2 | 155.9 | 159.8 | 172.1 |
| 57.5° | 176.1 | 173.8 | 173.8 | 164.8 | 146.3 | 147.5 | 143.5 | 145.7 | 149.2 | 152.5 | 165.4 |
| 60° | 171.5 | 169.3 | 170.5 | 160.9 | 140.1 | 139.1 | 137.4 | 141.8 | 143.0 | 147.0 | 159.8 |
| 62.5° | 166.5 | 164.8 | 165.4 | 156.5 | 135.7 | 132.9 | 132.9 | 136.8 | 137.4 | 143.0 | 155.3 |
| 65° | 162.7 | 160.3 | 159.8 | 152.0 | 130.7 | 127.3 | 128.9 | 130.7 | 131.8 | 137.4 | 149.2 |
| 67.5° | 158.7 | 154.1 | 154.1 | 148.0 | 125.0 | 121.7 | 125.0 | 124.4 | 126.1 | 131.2 | 140.8 |
| 70° | 153.6 | 147.5 | 148.0 | 145.3 | 119.5 | 115.5 | 118.2 | 117.8 | 118.8 | 122.2 | 131.8 |
| 72.5° | 145.7 | 140.8 | 141.8 | 140.8 | 113.8 | 108.2 | 109.4 | 109.4 | 109.4 | 112.2 | 122.2 |
| 75° | 135.7 | 131.8 | 135.1 | 137.9 | 107.1 | 99.3 | 100.4 | 100.4 | 98.8 | 100.4 | 112.6 |
| 77.5° | 123.3 | 121.1 | 132.3 | 128.4 | 99.3 | 89.7 | 89.7 | 88.7 | 85.2 | 87.5 | 100.9 |
| 80° | 110.0 | 108.2 | 122.2 | 107.6 | 90.3 | 78.0 | 76.8 | 74.0 | 70.6 | 72.4 | 85.8 |
| 82.5° | 95.8 | 94.2 | 102.6 | 82.5 | 78.0 | 64.5 | 61.7 | 56.7 | 53.3 | 54.9 | 67.4 |
| 85° | 78.5 | 78.5 | 79.1 | 62.3 | 59.5 | 49.3 | 46.0 | 39.3 | 35.4 | 36.4 | 48.1 |
| 87.5° | 56.1 | 57.8 | 53.3 | 42.6 | 35.4 | 27.5 | 25.2 | 21.3 | 18.0 | 20.8 | 25.2 |
| 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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| 35° | 226.0 | 246.8 | 279.3 | 486.7 | 948.8 | 2344.4 | 4363.6 | 5022.6 |
| 37.5° | 215.4 | 236.1 | 259.6 | 480.0 | 961.6 | 2409.0 | 4698.9 | 5427.4 |
| 40° | 208.5 | 227.7 | 247.8 | 476.0 | 974.0 | 2467.9 | 5027.5 | 5827.8 |
| 42.5° | 204.2 | 221.5 | 246.8 | 462.5 | 980.2 | 2520.6 | 5297.8 | 6168.1 |
| 45° | 203.6 | 221.5 | 251.3 | 449.2 | 989.8 | 2577.1 | 5524.3 | 6419.8 |
| 47.5° | 204.2 | 228.8 | 242.8 | 433.0 | 989.8 | 2671.9 | 5790.1 | 6644.8 |
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| 77.5° | 103.1 | 108.2 | 121.7 | 196.8 | 371.8 | 598.9 | 1954.7 | 2123.6 |
| 80° | 88.0 | 90.9 | 102.0 | 144.1 | 254.6 | 374.6 | 1546.5 | 1704.1 |
| 82.5° | 70.6 | 71.8 | 79.1 | 108.2 | 165.4 | 240.6 | 1035.7 | 1182.0 |
| 85° | 49.9 | 49.9 | 54.3 | 78.5 | 112.6 | 152.5 | 562.3 | 623.6 |
| 87.5° | 23.5 | 24.2 | 24.2 | 43.2 | 58.8 | 77.3 | 129.5 | 79.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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