

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: P191399

Luminaire Tested: **GLEON-AF-01-LED-E1-T2R-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191399
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-01-LED-E1-T2R-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5366.4 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

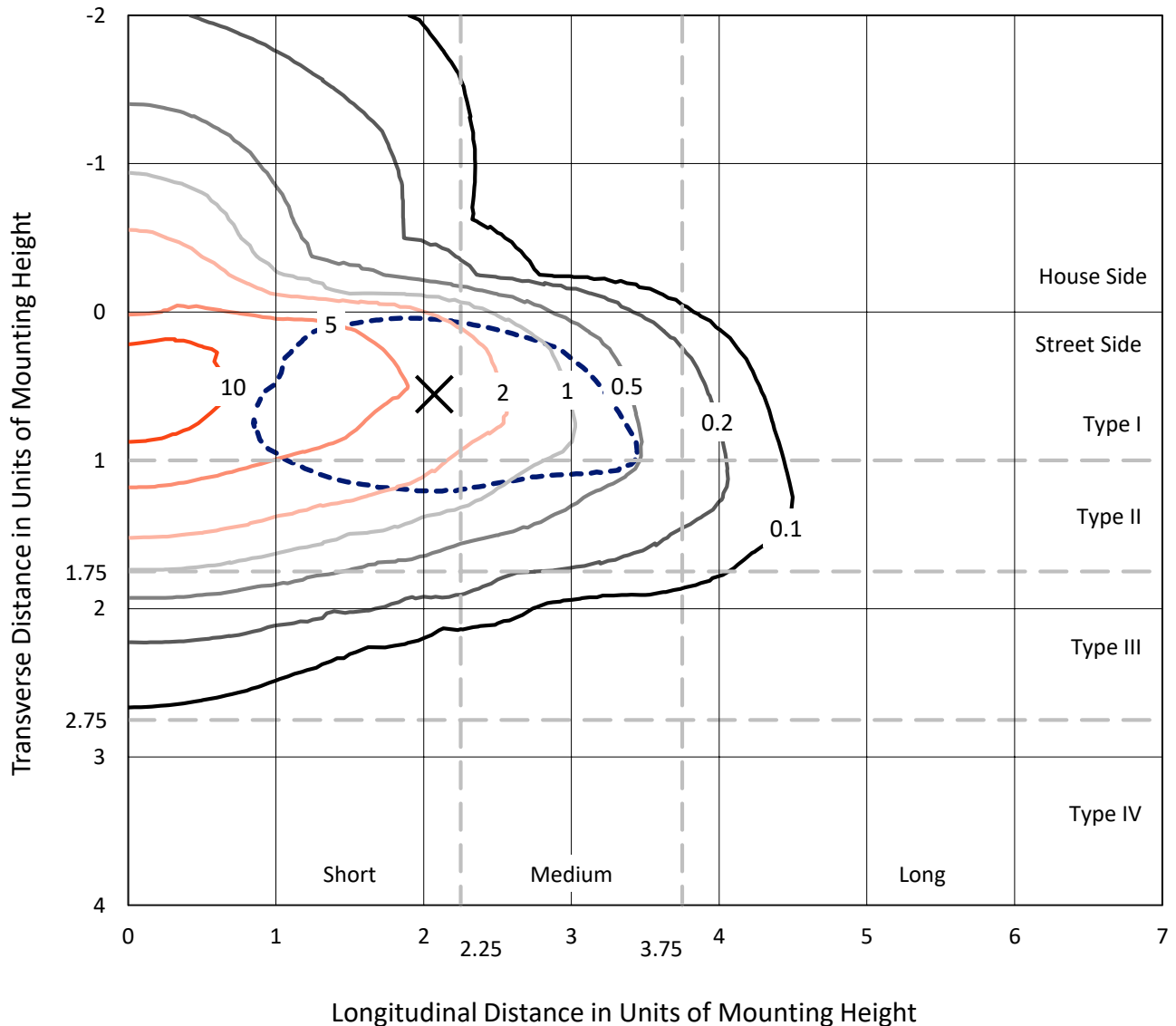


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

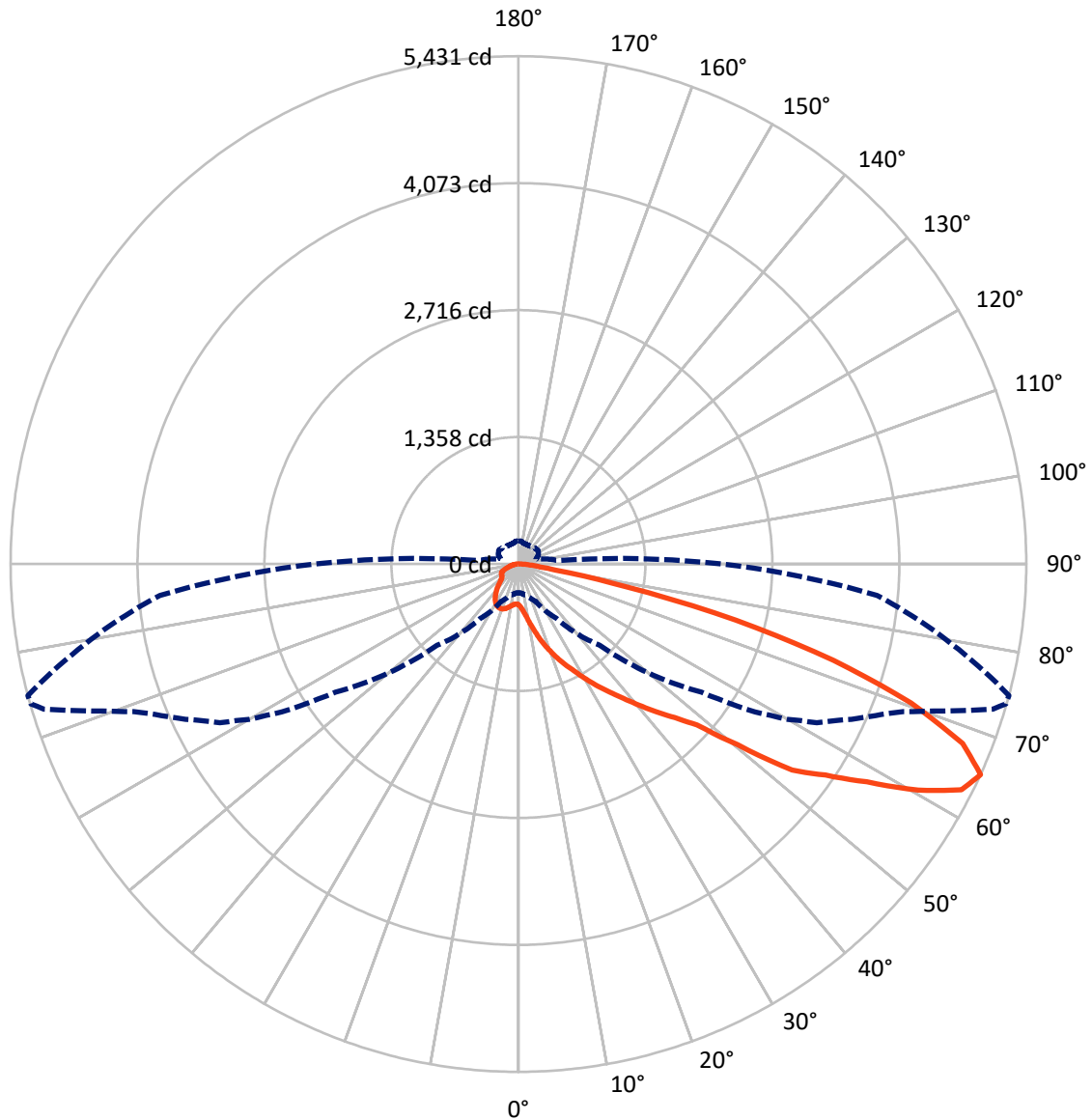


Based on 10 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - Full Cutoff

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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 | 827.4 | 0.0 | 827.4 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 4539.0 | 0.0 | 4539.0 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 5366.4 | 0.0 | 5366.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.9 | 1.0 |
| 10°-20° | 210.6 | 3.9 |
| 20°-30° | 432.1 | 8.1 |
| 30°-40° | 727.0 | 13.5 |
| 40°-50° | 1004.6 | 18.7 |
| 50°-60° | 1254.0 | 23.4 |
| 60°-70° | 1128.5 | 21.0 |
| 70°-80° | 473.0 | 8.8 |
| 80°-90° | 82.6 | 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° | 5366.4 | 100.0 |
| 0°-180° | 5366.4 | 100.0 |



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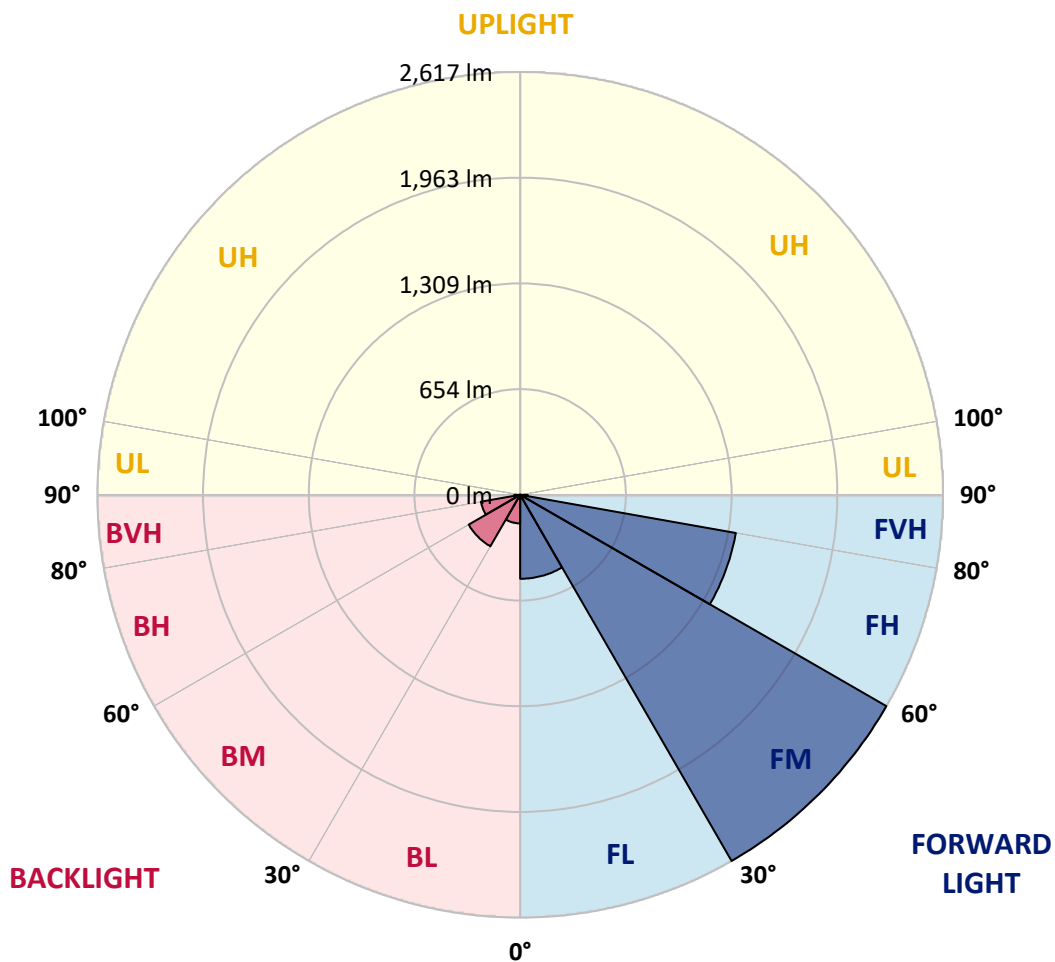
CATALOG NUMBER: GLEON-AF-01-LED-E1-T2R-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 519.7 | 9.7 | | | |
| FM (30°-60°) | 2617.3 | 48.8 | | | |
| FH (60°-80°) | 1355.5 | 25.3 | | | G1/1800 |
| FVH (80°-90°) | 46.4 | 0.9 | | | G1/100 |
| BL (0°-30°) | 176.9 | 3.3 | B1/500 | | |
| BM (30°-60°) | 368.3 | 6.9 | B1/1000 | | |
| BH (60°-80°) | 246.0 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 36.2 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CATALOG NUMBER: GLEON-AF-01-LED-E1-T2R-800

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 |
| 2.5° | 553.7 | 547.6 | 549.1 | 539.0 | 526.5 | 510.2 | 492.2 | 492.0 | 492.2 | 490.5 | 483.9 |
| 5° | 767.8 | 760.5 | 757.7 | 734.8 | 701.3 | 653.6 | 601.7 | 596.2 | 593.8 | 588.0 | 574.6 |
| 7.5° | 924.0 | 920.0 | 915.6 | 898.5 | 868.0 | 814.6 | 745.0 | 733.0 | 721.6 | 718.8 | 703.6 |
| 10° | 1024.9 | 1023.9 | 1014.8 | 1010.2 | 991.1 | 944.9 | 877.1 | 865.6 | 853.2 | 848.8 | 832.9 |
| 12.5° | 1104.7 | 1104.4 | 1100.1 | 1101.3 | 1084.8 | 1051.3 | 992.9 | 982.4 | 973.3 | 960.1 | 948.7 |
| 15° | 1159.8 | 1160.0 | 1166.4 | 1173.5 | 1171.0 | 1148.4 | 1093.4 | 1088.9 | 1081.1 | 1071.8 | 1058.4 |
| 17.5° | 1205.0 | 1206.3 | 1212.9 | 1225.8 | 1239.8 | 1238.0 | 1194.6 | 1190.7 | 1183.9 | 1171.5 | 1164.3 |
| 20° | 1307.1 | 1311.9 | 1299.2 | 1299.2 | 1300.8 | 1307.6 | 1286.8 | 1283.7 | 1274.1 | 1267.4 | 1261.9 |
| 22.5° | 1479.6 | 1485.1 | 1456.5 | 1427.2 | 1398.6 | 1377.7 | 1356.8 | 1360.7 | 1354.1 | 1349.5 | 1346.2 |
| 25° | 1703.6 | 1707.9 | 1661.5 | 1612.2 | 1553.8 | 1477.6 | 1426.0 | 1423.6 | 1420.2 | 1417.3 | 1415.8 |
| 27.5° | 1914.5 | 1916.2 | 1872.2 | 1800.1 | 1732.3 | 1622.8 | 1496.1 | 1493.3 | 1489.0 | 1483.6 | 1479.1 |
| 30° | 2094.8 | 2094.3 | 2049.1 | 1980.2 | 1907.6 | 1786.4 | 1602.5 | 1593.9 | 1581.2 | 1566.6 | 1555.5 |
| 32.5° | 2251.0 | 2250.2 | 2200.7 | 2129.3 | 2053.1 | 1948.4 | 1748.3 | 1730.5 | 1710.7 | 1682.5 | 1665.5 |
| 35° | 2373.9 | 2373.5 | 2326.7 | 2252.2 | 2164.9 | 2101.1 | 1915.5 | 1893.6 | 1868.4 | 1830.6 | 1804.5 |
| 37.5° | 2420.4 | 2420.4 | 2394.2 | 2343.5 | 2266.2 | 2222.6 | 2101.1 | 2074.6 | 2047.7 | 2004.9 | 1975.4 |
| 40° | 2393.2 | 2393.7 | 2399.3 | 2389.9 | 2352.3 | 2318.8 | 2274.3 | 2258.6 | 2235.5 | 2196.9 | 2166.1 |
| 42.5° | 2302.0 | 2304.8 | 2341.9 | 2387.4 | 2406.2 | 2400.9 | 2428.0 | 2420.9 | 2404.7 | 2374.9 | 2350.5 |
| 45° | 2186.5 | 2195.0 | 2235.8 | 2321.6 | 2421.1 | 2471.7 | 2556.8 | 2557.6 | 2554.5 | 2538.5 | 2519.7 |
| 47.5° | 2027.7 | 2039.9 | 2093.5 | 2209.6 | 2386.1 | 2540.5 | 2687.6 | 2694.5 | 2700.8 | 2690.4 | 2681.8 |
| 50° | 1816.9 | 1831.4 | 1911.6 | 2065.5 | 2314.7 | 2611.9 | 2934.7 | 2965.7 | 2994.7 | 2991.1 | 2996.9 |
| 52.5° | 1591.1 | 1608.1 | 1706.4 | 1877.8 | 2192.1 | 2628.4 | 3092.7 | 3143.3 | 3193.9 | 3235.2 | 3279.2 |
| 55° | 1387.3 | 1378.2 | 1476.5 | 1657.1 | 1990.4 | 2554.0 | 3234.8 | 3295.6 | 3352.1 | 3402.8 | 3455.2 |
| 57.5° | 1111.2 | 1126.3 | 1224.8 | 1403.4 | 1723.4 | 2343.9 | 3332.5 | 3421.7 | 3502.7 | 3586.8 | 3660.9 |
| 60° | 812.3 | 827.3 | 934.3 | 1115.6 | 1433.6 | 2025.4 | 3257.8 | 3392.9 | 3522.7 | 3651.5 | 3752.1 |
| 62.5° | 490.5 | 501.7 | 595.9 | 768.6 | 1105.4 | 1647.7 | 2925.1 | 3102.4 | 3293.4 | 3447.3 | 3601.5 |
| 65° | 305.4 | 311.7 | 346.5 | 441.5 | 709.9 | 1230.1 | 2389.9 | 2583.3 | 2789.0 | 2984.3 | 3144.6 |
| 67.5° | 249.9 | 252.3 | 258.6 | 278.9 | 389.8 | 802.1 | 1778.8 | 1949.9 | 2135.6 | 2324.7 | 2503.0 |
| 70° | 224.7 | 223.3 | 223.3 | 224.5 | 249.9 | 431.3 | 1164.6 | 1276.1 | 1430.8 | 1595.1 | 1758.2 |
| 72.5° | 203.0 | 201.4 | 198.7 | 194.8 | 204.0 | 263.1 | 602.0 | 686.1 | 797.6 | 943.6 | 1099.9 |
| 75° | 182.4 | 180.3 | 177.1 | 172.3 | 178.6 | 198.7 | 289.1 | 324.4 | 378.7 | 456.4 | 543.6 |
| 77.5° | 161.0 | 158.5 | 155.5 | 151.9 | 160.0 | 154.5 | 169.4 | 182.1 | 203.0 | 227.8 | 260.6 |
| 80° | 136.9 | 134.6 | 133.6 | 131.9 | 141.5 | 117.6 | 119.7 | 127.5 | 139.7 | 153.1 | 168.4 |
| 82.5° | 107.2 | 107.2 | 111.3 | 112.0 | 122.7 | 84.6 | 89.4 | 96.3 | 102.6 | 109.8 | 116.8 |
| 85° | 70.6 | 71.1 | 84.8 | 90.1 | 96.8 | 56.9 | 67.1 | 69.4 | 74.5 | 78.5 | 81.5 |
| 87.5° | 22.1 | 23.8 | 51.9 | 57.4 | 55.6 | 32.2 | 41.1 | 42.1 | 45.7 | 48.5 | 51.0 |
| 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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CATALOG NUMBER: GLEON-AF-01-LED-E1-T2R-800

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 |
| 2.5° | 483.9 | 480.8 | 478.0 | 477.8 | 475.8 | 472.9 | 473.9 | 469.6 | 469.9 | 467.6 | 465.0 |
| 5° | 569.0 | 566.9 | 556.8 | 554.0 | 546.4 | 541.6 | 540.7 | 530.6 | 529.4 | 523.5 | 517.1 |
| 7.5° | 691.4 | 684.8 | 670.5 | 663.7 | 650.8 | 641.1 | 636.5 | 623.1 | 616.4 | 601.2 | 594.3 |
| 10° | 819.7 | 811.3 | 793.7 | 784.1 | 771.6 | 756.2 | 747.8 | 728.2 | 720.6 | 706.7 | 689.9 |
| 12.5° | 938.6 | 930.2 | 912.2 | 904.8 | 888.2 | 871.8 | 862.6 | 840.5 | 830.6 | 808.2 | 795.0 |
| 15° | 1048.5 | 1040.1 | 1024.4 | 1016.8 | 1000.2 | 986.8 | 974.6 | 952.8 | 941.1 | 920.2 | 903.0 |
| 17.5° | 1155.2 | 1146.3 | 1132.6 | 1125.8 | 1109.7 | 1096.0 | 1082.8 | 1062.2 | 1050.3 | 1029.5 | 1013.9 |
| 20° | 1254.2 | 1247.7 | 1237.8 | 1228.6 | 1212.6 | 1200.1 | 1184.4 | 1166.7 | 1149.4 | 1134.1 | 1119.4 |
| 22.5° | 1340.6 | 1338.1 | 1327.4 | 1323.4 | 1309.7 | 1298.9 | 1285.2 | 1267.7 | 1255.3 | 1235.9 | 1222.2 |
| 25° | 1415.0 | 1414.3 | 1409.2 | 1407.9 | 1398.3 | 1388.1 | 1385.1 | 1370.5 | 1359.2 | 1342.1 | 1327.9 |
| 27.5° | 1479.1 | 1479.8 | 1478.6 | 1482.2 | 1479.6 | 1475.0 | 1475.2 | 1470.4 | 1463.8 | 1449.6 | 1437.1 |
| 30° | 1550.2 | 1546.1 | 1548.4 | 1553.5 | 1555.0 | 1555.5 | 1563.9 | 1566.6 | 1566.1 | 1556.8 | 1550.7 |
| 32.5° | 1650.7 | 1641.1 | 1632.2 | 1631.5 | 1636.5 | 1638.6 | 1652.8 | 1660.1 | 1666.5 | 1668.8 | 1669.9 |
| 35° | 1779.0 | 1759.7 | 1741.2 | 1731.2 | 1722.6 | 1724.9 | 1735.1 | 1747.0 | 1761.0 | 1770.6 | 1782.1 |
| 37.5° | 1940.5 | 1916.9 | 1884.2 | 1860.8 | 1855.0 | 1842.2 | 1848.9 | 1858.3 | 1872.0 | 1886.9 | 1906.8 |
| 40° | 2136.4 | 2100.6 | 2063.8 | 2032.8 | 2016.0 | 1992.6 | 1992.4 | 1990.7 | 1999.1 | 2013.0 | 2040.9 |
| 42.5° | 2324.9 | 2293.1 | 2254.0 | 2221.5 | 2199.7 | 2168.5 | 2162.1 | 2145.5 | 2149.3 | 2161.6 | 2188.7 |
| 45° | 2501.4 | 2475.2 | 2451.4 | 2413.8 | 2395.2 | 2361.5 | 2350.8 | 2331.2 | 2320.4 | 2325.9 | 2353.1 |
| 47.5° | 2672.4 | 2655.6 | 2630.7 | 2606.3 | 2592.1 | 2561.9 | 2548.2 | 2534.2 | 2520.2 | 2519.7 | 2548.2 |
| 50° | 3005.6 | 2996.7 | 2967.3 | 2941.9 | 2948.8 | 2911.6 | 2913.9 | 2876.3 | 2893.3 | 2895.4 | 2955.1 |
| 52.5° | 3318.8 | 3349.8 | 3371.6 | 3398.3 | 3415.5 | 3418.9 | 3430.3 | 3447.3 | 3467.9 | 3508.5 | 3564.0 |
| 55° | 3498.1 | 3537.0 | 3559.6 | 3579.9 | 3613.5 | 3620.5 | 3639.6 | 3662.2 | 3680.3 | 3726.0 | 3772.9 |
| 57.5° | 3711.3 | 3783.4 | 3818.5 | 3850.7 | 3895.9 | 3913.2 | 3944.9 | 3969.6 | 3992.9 | 4047.0 | 4103.9 |
| 60° | 3842.5 | 3930.5 | 4001.8 | 4052.8 | 4109.5 | 4150.1 | 4198.2 | 4236.8 | 4291.6 | 4356.4 | 4441.2 |
| 62.5° | 3738.2 | 3867.2 | 3961.9 | 4049.6 | 4126.5 | 4204.2 | 4273.1 | 4345.2 | 4428.6 | 4526.6 | 4658.1 |
| 65° | 3322.3 | 3453.7 | 3616.0 | 3706.9 | 3808.8 | 3928.6 | 4033.3 | 4150.1 | 4263.7 | 4406.5 | 4601.0 |
| 67.5° | 2674.6 | 2827.3 | 3009.7 | 3101.4 | 3218.5 | 3352.3 | 3469.6 | 3612.4 | 3745.0 | 3918.0 | 4158.5 |
| 70° | 1927.9 | 2125.3 | 2278.6 | 2374.4 | 2511.0 | 2649.0 | 2762.3 | 2928.4 | 3038.2 | 3215.4 | 3464.1 |
| 72.5° | 1220.7 | 1376.5 | 1564.4 | 1685.0 | 1806.4 | 1946.2 | 2062.0 | 2205.3 | 2307.6 | 2469.2 | 2694.5 |
| 75° | 656.3 | 771.2 | 936.2 | 1050.8 | 1180.9 | 1300.3 | 1435.9 | 1531.9 | 1607.6 | 1735.3 | 1918.2 |
| 77.5° | 307.6 | 377.5 | 461.0 | 549.1 | 637.3 | 729.3 | 818.7 | 896.4 | 928.8 | 1002.1 | 1110.0 |
| 80° | 186.7 | 209.3 | 233.6 | 260.9 | 297.7 | 327.4 | 366.8 | 395.3 | 397.2 | 420.3 | 453.4 |
| 82.5° | 124.7 | 133.1 | 140.5 | 147.3 | 156.7 | 164.1 | 172.5 | 182.4 | 186.5 | 191.8 | 202.4 |
| 85° | 85.1 | 89.2 | 90.6 | 95.0 | 94.0 | 96.6 | 99.8 | 103.1 | 104.9 | 104.6 | 109.5 |
| 87.5° | 52.4 | 54.3 | 55.3 | 56.4 | 55.6 | 54.6 | 56.2 | 57.9 | 58.4 | 56.9 | 57.4 |
| 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-01-LED-E1-T2R-800

CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 |
| 2.5° | 465.5 | 463.3 | 461.0 | 459.5 | 459.0 | 445.5 | 439.7 | 435.9 | 427.7 | 421.1 | 415.8 |
| 5° | 513.6 | 508.8 | 504.9 | 500.4 | 497.9 | 463.8 | 451.3 | 442.7 | 428.5 | 420.1 | 412.5 |
| 7.5° | 590.9 | 577.4 | 569.5 | 560.6 | 553.0 | 491.5 | 471.0 | 457.5 | 437.6 | 426.5 | 417.9 |
| 10° | 678.4 | 664.5 | 652.0 | 638.3 | 626.4 | 528.4 | 498.4 | 477.5 | 451.3 | 436.9 | 425.4 |
| 12.5° | 776.2 | 762.5 | 746.8 | 729.3 | 714.0 | 575.1 | 533.4 | 503.7 | 467.9 | 448.6 | 432.6 |
| 15° | 891.8 | 867.7 | 848.6 | 828.3 | 810.5 | 631.0 | 574.3 | 533.2 | 485.4 | 459.2 | 437.9 |
| 17.5° | 999.2 | 973.8 | 948.0 | 930.2 | 909.6 | 693.7 | 615.4 | 563.1 | 499.9 | 466.1 | 438.9 |
| 20° | 1104.2 | 1076.5 | 1054.2 | 1030.2 | 1008.6 | 758.7 | 659.4 | 589.5 | 509.2 | 466.4 | 432.6 |
| 22.5° | 1196.6 | 1179.4 | 1154.4 | 1128.5 | 1106.7 | 823.7 | 700.5 | 611.9 | 512.8 | 460.5 | 421.4 |
| 25° | 1301.8 | 1283.5 | 1253.0 | 1231.1 | 1206.8 | 890.1 | 740.9 | 629.1 | 510.8 | 449.6 | 404.2 |
| 27.5° | 1414.0 | 1393.7 | 1362.5 | 1339.7 | 1310.2 | 958.8 | 778.1 | 641.6 | 503.2 | 431.8 | 381.0 |
| 30° | 1531.2 | 1512.5 | 1481.8 | 1458.7 | 1429.1 | 1031.7 | 819.4 | 650.0 | 487.9 | 407.1 | 354.0 |
| 32.5° | 1656.9 | 1641.3 | 1610.8 | 1586.8 | 1555.0 | 1110.7 | 858.1 | 652.5 | 464.8 | 378.0 | 325.6 |
| 35° | 1776.3 | 1765.6 | 1739.9 | 1717.3 | 1684.3 | 1185.4 | 898.9 | 651.3 | 437.4 | 346.0 | 299.7 |
| 37.5° | 1910.6 | 1904.2 | 1891.5 | 1862.9 | 1822.5 | 1286.8 | 948.0 | 645.9 | 403.9 | 314.3 | 279.9 |
| 40° | 2053.9 | 2054.4 | 2040.7 | 2021.1 | 1983.5 | 1409.7 | 1006.4 | 635.6 | 367.2 | 286.2 | 261.9 |
| 42.5° | 2205.5 | 2213.4 | 2206.8 | 2192.8 | 2156.7 | 1533.7 | 1076.2 | 622.8 | 331.7 | 259.1 | 244.1 |
| 45° | 2379.3 | 2388.9 | 2399.0 | 2378.5 | 2343.5 | 1697.3 | 1168.1 | 606.3 | 293.4 | 236.5 | 231.9 |
| 47.5° | 2579.7 | 2594.9 | 2604.0 | 2604.3 | 2569.2 | 1899.9 | 1317.6 | 596.4 | 259.3 | 221.3 | 226.1 |
| 50° | 3002.6 | 3007.4 | 3029.0 | 3066.6 | 3039.7 | 2369.1 | 1578.4 | 590.3 | 236.2 | 211.9 | 221.8 |
| 52.5° | 3611.9 | 3665.0 | 3702.4 | 3699.8 | 3663.2 | 2667.0 | 1722.1 | 558.8 | 222.5 | 208.3 | 219.7 |
| 55° | 3860.1 | 3926.4 | 3995.4 | 4013.8 | 3985.3 | 2921.2 | 1858.0 | 527.3 | 215.9 | 210.8 | 220.4 |
| 57.5° | 4190.8 | 4302.5 | 4397.3 | 4437.2 | 4396.0 | 3246.6 | 2036.8 | 510.8 | 213.9 | 217.7 | 225.3 |
| 60° | 4577.1 | 4715.3 | 4839.8 | 4911.4 | 4911.4 | 3620.5 | 2222.3 | 503.9 | 211.0 | 227.8 | 233.4 |
| 62.5° | 4825.3 | 5028.2 | 5216.2 | 5321.1 | 5318.0 | 3880.9 | 2304.6 | 480.6 | 204.7 | 235.0 | 244.6 |
| 65° | 4826.3 | 5067.6 | 5307.2 | 5425.0 | 5431.1 | 3848.9 | 2168.7 | 424.4 | 193.0 | 236.0 | 255.7 |
| 67.5° | 4424.0 | 4681.2 | 4960.4 | 5092.2 | 5122.7 | 3543.1 | 1877.3 | 349.0 | 174.0 | 225.8 | 259.8 |
| 70° | 3736.4 | 3987.6 | 4272.6 | 4402.2 | 4456.2 | 3020.4 | 1512.1 | 269.0 | 149.7 | 203.5 | 251.4 |
| 72.5° | 2943.6 | 3190.0 | 3388.4 | 3483.1 | 3525.3 | 2308.6 | 1101.1 | 203.2 | 122.7 | 171.4 | 228.8 |
| 75° | 2084.1 | 2269.0 | 2374.4 | 2395.5 | 2402.1 | 1391.7 | 669.0 | 151.1 | 101.1 | 133.4 | 193.3 |
| 77.5° | 1176.3 | 1255.6 | 1246.9 | 1256.3 | 1178.0 | 537.3 | 291.3 | 108.2 | 83.3 | 101.4 | 149.9 |
| 80° | 459.2 | 473.4 | 444.8 | 435.9 | 399.8 | 199.9 | 128.5 | 75.4 | 66.6 | 76.7 | 104.9 |
| 82.5° | 202.4 | 209.1 | 203.0 | 204.5 | 195.6 | 103.1 | 76.9 | 54.6 | 50.8 | 56.2 | 69.6 |
| 85° | 111.5 | 113.5 | 113.0 | 116.3 | 111.5 | 41.1 | 36.6 | 33.6 | 35.6 | 38.1 | 44.7 |
| 87.5° | 54.3 | 54.8 | 53.1 | 55.9 | 54.1 | 20.9 | 18.0 | 19.0 | 20.9 | 21.4 | 21.4 |
| 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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| 0° | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 | 436.1 |
| 2.5° | 411.9 | 410.0 | 410.2 | 409.7 | 408.7 | 408.7 |
| 5° | 408.5 | 406.4 | 406.4 | 405.9 | 404.6 | 404.9 |
| 7.5° | 411.9 | 408.7 | 407.4 | 405.6 | 403.9 | 403.9 |
| 10° | 416.0 | 410.2 | 406.6 | 403.7 | 401.3 | 401.3 |
| 12.5° | 419.1 | 410.0 | 404.2 | 400.1 | 397.7 | 397.7 |
| 15° | 420.1 | 408.2 | 400.1 | 395.3 | 393.2 | 392.9 |
| 17.5° | 416.9 | 401.3 | 391.4 | 385.9 | 383.3 | 382.5 |
| 20° | 406.6 | 388.9 | 377.0 | 370.6 | 367.0 | 365.8 |
| 22.5° | 391.4 | 371.1 | 357.1 | 350.6 | 346.0 | 345.1 |
| 25° | 370.1 | 348.2 | 334.5 | 328.2 | 325.6 | 324.9 |
| 27.5° | 345.1 | 324.9 | 313.2 | 309.1 | 306.9 | 306.6 |
| 30° | 321.6 | 304.3 | 295.6 | 292.6 | 289.8 | 289.3 |
| 32.5° | 299.5 | 288.6 | 285.2 | 280.9 | 274.4 | 273.5 |
| 35° | 283.8 | 282.7 | 280.4 | 270.8 | 262.6 | 260.3 |
| 37.5° | 274.0 | 283.5 | 271.8 | 252.8 | 246.9 | 246.4 |
| 40° | 268.5 | 275.6 | 255.5 | 248.9 | 249.4 | 248.9 |
| 42.5° | 255.7 | 263.1 | 256.0 | 253.0 | 255.0 | 255.5 |
| 45° | 243.1 | 251.2 | 259.8 | 257.8 | 262.6 | 262.6 |
| 47.5° | 236.0 | 248.2 | 259.6 | 259.6 | 266.7 | 269.2 |
| 50° | 227.8 | 245.6 | 255.5 | 259.1 | 264.6 | 262.6 |
| 52.5° | 227.3 | 241.3 | 249.7 | 256.0 | 258.6 | 256.2 |
| 55° | 228.1 | 237.7 | 243.9 | 250.9 | 254.0 | 254.3 |
| 57.5° | 229.1 | 235.7 | 239.8 | 243.1 | 252.3 | 252.3 |
| 60° | 231.7 | 233.9 | 236.2 | 238.0 | 249.9 | 250.2 |
| 62.5° | 235.7 | 232.1 | 231.7 | 233.4 | 248.7 | 247.7 |
| 65° | 242.0 | 229.7 | 225.8 | 227.6 | 247.3 | 244.4 |
| 67.5° | 250.7 | 225.8 | 218.4 | 219.7 | 246.4 | 239.8 |
| 70° | 258.6 | 219.7 | 209.3 | 208.1 | 236.7 | 225.0 |
| 72.5° | 259.3 | 212.6 | 196.6 | 192.8 | 205.7 | 194.6 |
| 75° | 246.6 | 207.8 | 182.6 | 171.4 | 169.9 | 168.4 |
| 77.5° | 222.3 | 205.0 | 166.3 | 148.8 | 145.8 | 146.8 |
| 80° | 186.0 | 194.6 | 146.8 | 126.0 | 142.5 | 140.8 |
| 82.5° | 138.9 | 171.8 | 124.7 | 111.5 | 111.3 | 98.3 |
| 85° | 77.2 | 133.9 | 101.6 | 83.6 | 58.2 | 56.4 |
| 87.5° | 21.6 | 74.5 | 71.1 | 47.3 | 32.2 | 33.6 |
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(END OF REPORT)