

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: P269021

Luminaire Tested: **GLEON-AF-01-LED-E1-T2R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269021
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-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5641.5 lumens
Efficiency: N/A
Efficacy: 95.6 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

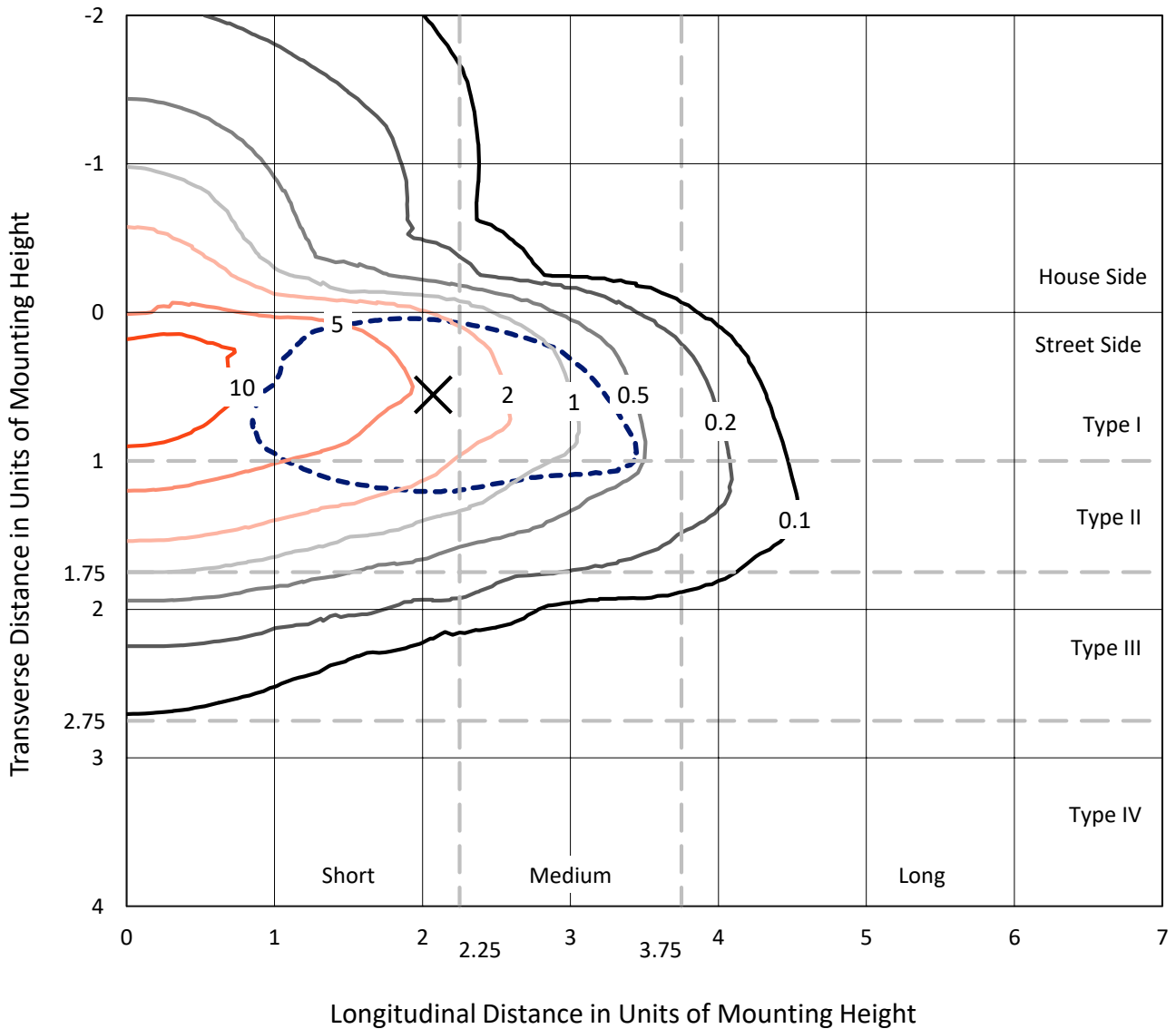
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

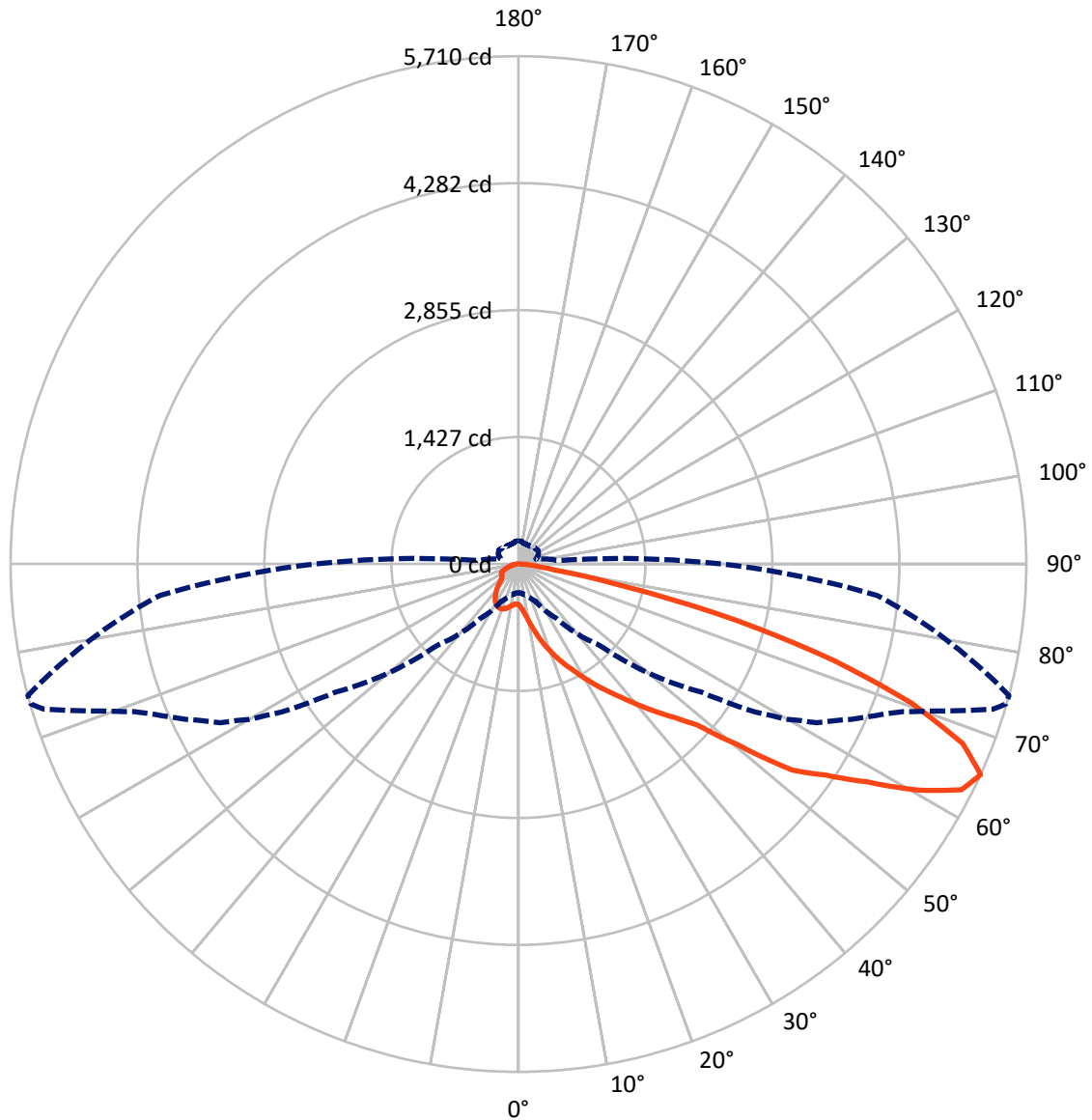
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.2 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 | 869.8 | 0.0 | 869.8 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 4771.7 | 0.0 | 4771.7 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 5641.5 | 0.0 | 5641.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 56.7 | 1.0 |
| 10°-20° | 221.4 | 3.9 |
| 20°-30° | 454.3 | 8.1 |
| 30°-40° | 764.3 | 13.5 |
| 40°-50° | 1056.1 | 18.7 |
| 50°-60° | 1318.3 | 23.4 |
| 60°-70° | 1186.3 | 21.0 |
| 70°-80° | 497.3 | 8.8 |
| 80°-90° | 86.9 | 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° | 5641.5 | 100.0 |
| 0°-180° | 5641.5 | 100.0 |



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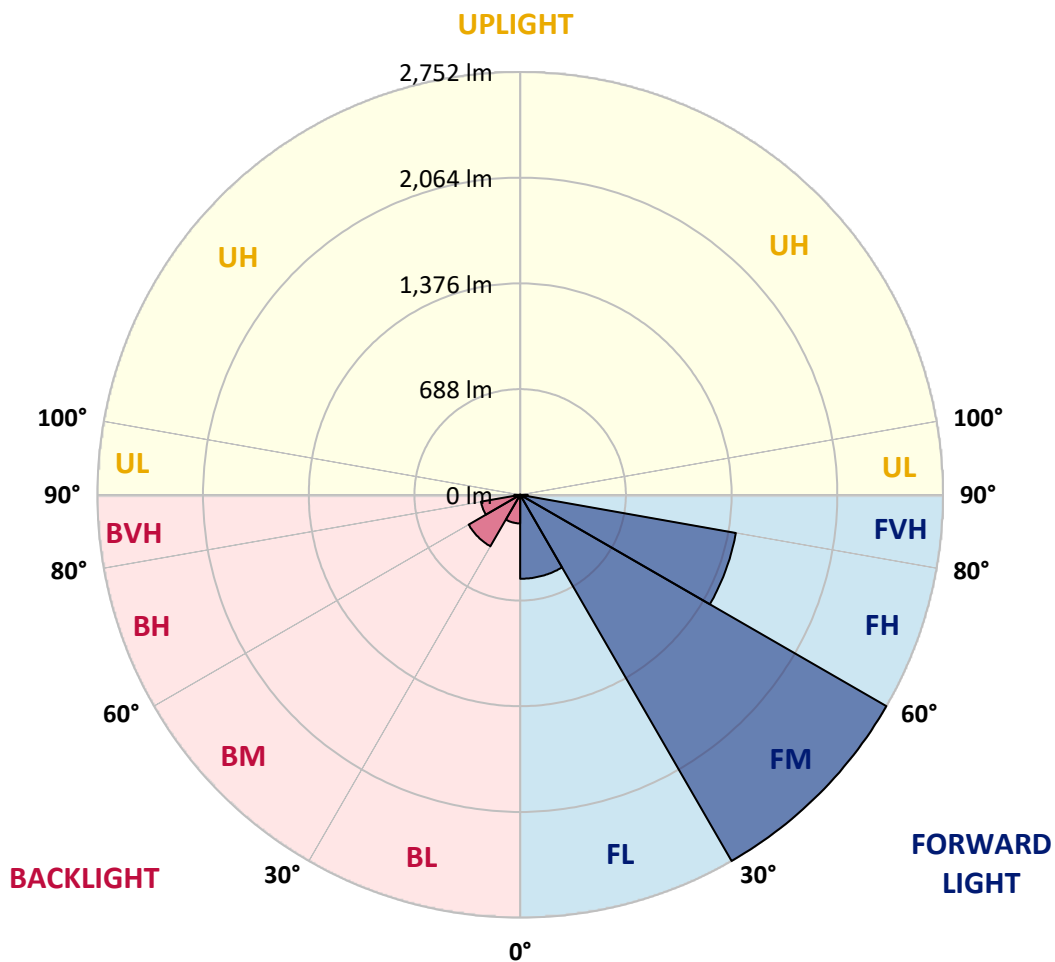
CATALOG NUMBER: GLEON-AF-01-LED-E1-T2R-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 546.4 | 9.7 | | | |
| FM (30°-60°) | 2751.5 | 48.8 | | | |
| FH (60°-80°) | 1425.0 | 25.3 | | | G1/1800 |
| FVH (80°-90°) | 48.8 | 0.9 | | | G1/100 |
| BL (0°-30°) | 186.0 | 3.3 | B1/500 | | |
| BM (30°-60°) | 387.2 | 6.9 | B1/1000 | | |
| BH (60°-80°) | 258.6 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 38.0 | 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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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 |
| 2.5° | 582.1 | 575.8 | 577.3 | 566.7 | 553.5 | 536.5 | 517.6 | 517.2 | 517.6 | 515.6 | 508.7 |
| 5° | 807.2 | 799.5 | 796.5 | 772.5 | 737.2 | 687.1 | 632.5 | 626.7 | 624.3 | 618.2 | 604.0 |
| 7.5° | 971.4 | 967.1 | 962.7 | 944.5 | 912.4 | 856.4 | 783.2 | 770.7 | 758.6 | 755.7 | 739.7 |
| 10° | 1077.4 | 1076.3 | 1066.7 | 1061.9 | 1041.9 | 993.3 | 922.0 | 910.1 | 897.0 | 892.3 | 875.6 |
| 12.5° | 1161.2 | 1161.0 | 1156.5 | 1157.8 | 1140.5 | 1105.3 | 1043.8 | 1032.8 | 1023.3 | 1009.3 | 997.4 |
| 15° | 1219.2 | 1219.4 | 1226.1 | 1233.6 | 1230.9 | 1207.2 | 1149.6 | 1144.7 | 1136.4 | 1126.8 | 1112.7 |
| 17.5° | 1266.8 | 1268.0 | 1275.1 | 1288.7 | 1303.4 | 1301.5 | 1255.8 | 1251.8 | 1244.6 | 1231.5 | 1224.0 |
| 20° | 1374.0 | 1379.2 | 1365.9 | 1365.9 | 1367.4 | 1374.6 | 1352.8 | 1349.6 | 1339.5 | 1332.5 | 1326.5 |
| 22.5° | 1555.4 | 1561.3 | 1531.2 | 1500.3 | 1470.3 | 1448.3 | 1426.5 | 1430.6 | 1423.5 | 1418.8 | 1415.2 |
| 25° | 1791.0 | 1795.5 | 1746.7 | 1694.8 | 1633.4 | 1553.3 | 1499.1 | 1496.7 | 1493.0 | 1490.0 | 1488.4 |
| 27.5° | 2012.7 | 2014.4 | 1968.2 | 1892.4 | 1821.1 | 1706.1 | 1572.8 | 1569.9 | 1565.2 | 1559.6 | 1554.8 |
| 30° | 2202.1 | 2201.7 | 2154.0 | 2081.7 | 2005.3 | 1877.9 | 1684.7 | 1675.6 | 1662.3 | 1647.0 | 1635.3 |
| 32.5° | 2366.3 | 2365.5 | 2313.6 | 2238.4 | 2158.4 | 2048.3 | 1837.9 | 1819.2 | 1798.4 | 1768.9 | 1750.8 |
| 35° | 2495.6 | 2495.1 | 2445.9 | 2367.8 | 2275.9 | 2208.8 | 2013.6 | 1990.6 | 1964.2 | 1924.4 | 1897.0 |
| 37.5° | 2544.4 | 2544.4 | 2517.1 | 2463.6 | 2382.5 | 2336.5 | 2208.8 | 2181.1 | 2152.8 | 2107.7 | 2076.6 |
| 40° | 2516.0 | 2516.4 | 2522.4 | 2512.5 | 2472.9 | 2437.7 | 2391.0 | 2374.4 | 2350.1 | 2309.5 | 2277.3 |
| 42.5° | 2420.0 | 2423.0 | 2462.0 | 2509.8 | 2529.5 | 2524.0 | 2552.5 | 2545.0 | 2527.9 | 2496.7 | 2471.1 |
| 45° | 2298.6 | 2307.7 | 2350.3 | 2440.7 | 2545.3 | 2598.4 | 2687.9 | 2688.6 | 2685.6 | 2668.7 | 2648.9 |
| 47.5° | 2131.7 | 2144.6 | 2200.8 | 2322.8 | 2508.4 | 2670.8 | 2825.3 | 2832.6 | 2839.4 | 2828.4 | 2819.3 |
| 50° | 1910.1 | 1925.2 | 2009.7 | 2171.5 | 2433.4 | 2745.8 | 3085.1 | 3117.7 | 3148.2 | 3144.4 | 3150.6 |
| 52.5° | 1672.6 | 1690.5 | 1793.8 | 1974.1 | 2304.4 | 2763.1 | 3251.3 | 3304.4 | 3357.5 | 3401.2 | 3447.3 |
| 55° | 1458.5 | 1448.8 | 1552.2 | 1742.1 | 2092.4 | 2684.9 | 3400.5 | 3464.7 | 3524.0 | 3577.3 | 3632.3 |
| 57.5° | 1168.2 | 1184.0 | 1287.6 | 1475.3 | 1811.8 | 2464.1 | 3503.4 | 3597.2 | 3682.3 | 3770.6 | 3848.7 |
| 60° | 854.0 | 869.6 | 982.1 | 1172.7 | 1507.0 | 2129.3 | 3424.9 | 3566.9 | 3703.4 | 3838.7 | 3944.5 |
| 62.5° | 515.6 | 527.3 | 626.5 | 808.0 | 1162.0 | 1732.2 | 3075.1 | 3261.4 | 3462.2 | 3624.1 | 3786.1 |
| 65° | 321.0 | 327.6 | 364.3 | 464.1 | 746.3 | 1293.2 | 2512.5 | 2715.7 | 2932.0 | 3137.3 | 3305.9 |
| 67.5° | 262.8 | 265.2 | 271.8 | 293.1 | 409.8 | 843.2 | 1870.0 | 2049.9 | 2245.1 | 2443.7 | 2631.2 |
| 70° | 236.3 | 234.6 | 234.6 | 236.1 | 262.8 | 453.5 | 1224.3 | 1341.6 | 1504.1 | 1677.0 | 1848.4 |
| 72.5° | 213.3 | 211.7 | 208.9 | 204.9 | 214.4 | 276.7 | 632.9 | 721.2 | 838.5 | 992.0 | 1156.2 |
| 75° | 191.7 | 189.6 | 186.0 | 181.1 | 187.7 | 208.9 | 303.8 | 340.9 | 398.0 | 479.9 | 571.4 |
| 77.5° | 169.3 | 166.6 | 163.4 | 159.7 | 168.3 | 162.4 | 178.1 | 191.5 | 213.3 | 239.5 | 274.0 |
| 80° | 143.9 | 141.6 | 140.4 | 138.6 | 148.7 | 123.6 | 125.8 | 134.0 | 146.9 | 161.1 | 177.1 |
| 82.5° | 112.6 | 112.6 | 117.0 | 117.8 | 128.9 | 88.9 | 94.1 | 101.1 | 107.8 | 115.3 | 122.8 |
| 85° | 74.2 | 74.7 | 89.2 | 94.9 | 101.8 | 59.7 | 70.4 | 72.9 | 78.2 | 82.6 | 85.7 |
| 87.5° | 23.3 | 25.2 | 54.4 | 60.4 | 58.5 | 34.0 | 43.3 | 44.3 | 48.1 | 51.1 | 53.7 |
| 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-01-LED-E1-T2R-7027

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 |
| 2.5° | 508.7 | 505.4 | 502.5 | 502.3 | 500.1 | 497.2 | 498.3 | 493.7 | 494.0 | 491.6 | 488.9 |
| 5° | 598.1 | 595.9 | 585.3 | 582.5 | 574.3 | 569.3 | 568.4 | 557.8 | 556.5 | 550.3 | 543.7 |
| 7.5° | 726.9 | 719.9 | 705.0 | 697.8 | 684.1 | 674.0 | 669.1 | 655.0 | 648.0 | 632.0 | 624.9 |
| 10° | 861.7 | 852.9 | 834.4 | 824.4 | 811.2 | 794.9 | 786.1 | 765.5 | 757.5 | 742.9 | 725.2 |
| 12.5° | 986.7 | 977.8 | 958.9 | 951.1 | 933.8 | 916.5 | 906.7 | 883.7 | 873.2 | 849.6 | 835.9 |
| 15° | 1102.3 | 1093.4 | 1076.9 | 1069.0 | 1051.6 | 1037.5 | 1024.5 | 1001.6 | 989.4 | 967.5 | 949.2 |
| 17.5° | 1214.4 | 1205.0 | 1190.7 | 1183.4 | 1166.7 | 1152.3 | 1138.3 | 1116.8 | 1104.1 | 1082.3 | 1066.0 |
| 20° | 1318.6 | 1311.6 | 1301.3 | 1291.7 | 1274.8 | 1261.7 | 1245.1 | 1226.5 | 1208.3 | 1192.3 | 1176.8 |
| 22.5° | 1409.4 | 1406.7 | 1395.4 | 1391.2 | 1376.8 | 1365.6 | 1351.1 | 1332.7 | 1319.6 | 1299.4 | 1284.9 |
| 25° | 1487.7 | 1486.9 | 1481.5 | 1480.1 | 1469.9 | 1459.2 | 1456.2 | 1440.9 | 1428.8 | 1411.0 | 1396.1 |
| 27.5° | 1554.8 | 1555.7 | 1554.3 | 1558.1 | 1555.4 | 1550.7 | 1551.0 | 1545.9 | 1538.8 | 1524.0 | 1510.8 |
| 30° | 1629.6 | 1625.5 | 1627.8 | 1633.1 | 1634.7 | 1635.3 | 1644.1 | 1647.0 | 1646.6 | 1636.6 | 1630.2 |
| 32.5° | 1735.3 | 1725.3 | 1715.9 | 1715.1 | 1720.4 | 1722.6 | 1737.5 | 1745.2 | 1752.0 | 1754.4 | 1755.5 |
| 35° | 1870.2 | 1850.0 | 1830.4 | 1820.1 | 1811.0 | 1813.4 | 1824.1 | 1836.7 | 1851.2 | 1861.5 | 1873.4 |
| 37.5° | 2040.1 | 2015.3 | 1980.9 | 1956.1 | 1950.1 | 1936.7 | 1943.8 | 1953.5 | 1967.9 | 1983.7 | 2004.6 |
| 40° | 2245.9 | 2208.4 | 2169.5 | 2137.0 | 2119.5 | 2094.8 | 2094.6 | 2092.7 | 2101.4 | 2116.1 | 2145.5 |
| 42.5° | 2444.1 | 2410.7 | 2369.5 | 2335.5 | 2312.4 | 2279.5 | 2272.9 | 2255.6 | 2259.5 | 2272.4 | 2301.0 |
| 45° | 2629.7 | 2602.2 | 2577.1 | 2537.5 | 2518.0 | 2482.6 | 2471.3 | 2450.8 | 2439.3 | 2445.1 | 2473.8 |
| 47.5° | 2809.4 | 2791.8 | 2765.6 | 2740.0 | 2725.0 | 2693.2 | 2678.8 | 2664.2 | 2649.5 | 2648.9 | 2678.8 |
| 50° | 3159.7 | 3150.4 | 3119.5 | 3092.8 | 3100.0 | 3061.0 | 3063.3 | 3023.9 | 3041.8 | 3043.8 | 3106.6 |
| 52.5° | 3488.9 | 3521.5 | 3544.5 | 3572.6 | 3590.7 | 3594.2 | 3606.2 | 3624.1 | 3645.7 | 3688.4 | 3746.7 |
| 55° | 3677.5 | 3718.4 | 3742.1 | 3763.4 | 3798.8 | 3806.2 | 3826.2 | 3850.0 | 3868.9 | 3917.0 | 3966.3 |
| 57.5° | 3901.5 | 3977.3 | 4014.2 | 4048.1 | 4095.6 | 4113.8 | 4147.1 | 4173.0 | 4197.7 | 4254.6 | 4314.3 |
| 60° | 4039.6 | 4131.9 | 4207.0 | 4260.8 | 4320.2 | 4363.0 | 4413.5 | 4453.9 | 4511.6 | 4579.7 | 4668.9 |
| 62.5° | 3929.8 | 4065.5 | 4165.1 | 4257.2 | 4338.2 | 4419.8 | 4492.2 | 4568.1 | 4655.6 | 4758.7 | 4897.0 |
| 65° | 3492.7 | 3630.8 | 3801.4 | 3896.9 | 4004.0 | 4130.0 | 4240.1 | 4363.0 | 4482.4 | 4632.4 | 4837.0 |
| 67.5° | 2811.8 | 2972.3 | 3164.0 | 3260.4 | 3383.5 | 3524.2 | 3647.6 | 3797.7 | 3937.0 | 4118.9 | 4371.7 |
| 70° | 2026.8 | 2234.3 | 2395.5 | 2496.2 | 2639.8 | 2784.8 | 2904.0 | 3078.5 | 3194.0 | 3380.3 | 3641.6 |
| 72.5° | 1283.3 | 1447.0 | 1644.5 | 1771.5 | 1899.0 | 2046.0 | 2167.7 | 2318.3 | 2426.0 | 2595.7 | 2832.6 |
| 75° | 690.0 | 810.7 | 984.3 | 1104.6 | 1241.4 | 1367.0 | 1509.5 | 1610.4 | 1690.0 | 1824.3 | 2016.5 |
| 77.5° | 323.4 | 396.8 | 484.6 | 577.3 | 670.0 | 766.7 | 860.7 | 942.3 | 976.5 | 1053.4 | 1166.9 |
| 80° | 196.3 | 220.1 | 245.6 | 274.3 | 313.0 | 344.2 | 385.6 | 415.5 | 417.6 | 442.0 | 476.6 |
| 82.5° | 131.2 | 140.0 | 147.7 | 154.9 | 164.7 | 172.6 | 181.3 | 191.7 | 196.0 | 201.6 | 212.8 |
| 85° | 89.4 | 93.8 | 95.3 | 99.9 | 98.9 | 101.5 | 104.9 | 108.4 | 110.3 | 110.0 | 115.2 |
| 87.5° | 54.9 | 57.1 | 58.2 | 59.3 | 58.5 | 57.4 | 59.0 | 60.8 | 61.4 | 59.7 | 60.4 |
| 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-7027

CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 | 458.5 |
| 2.5° | 489.4 | 487.1 | 484.6 | 483.1 | 482.5 | 468.3 | 462.2 | 458.2 | 449.7 | 442.8 | 437.1 |
| 5° | 539.9 | 534.9 | 530.9 | 526.0 | 523.4 | 487.6 | 474.6 | 465.4 | 450.5 | 441.6 | 433.6 |
| 7.5° | 621.1 | 607.0 | 598.7 | 589.3 | 581.4 | 516.6 | 495.1 | 481.0 | 460.1 | 448.3 | 439.2 |
| 10° | 713.3 | 698.5 | 685.4 | 671.0 | 658.5 | 555.4 | 523.9 | 502.1 | 474.6 | 459.4 | 447.3 |
| 12.5° | 816.0 | 801.6 | 785.1 | 766.7 | 750.7 | 604.6 | 560.7 | 529.6 | 491.8 | 471.6 | 454.7 |
| 15° | 937.6 | 912.1 | 892.1 | 870.7 | 852.1 | 663.3 | 603.8 | 560.5 | 510.2 | 482.7 | 460.3 |
| 17.5° | 1050.5 | 1023.8 | 996.5 | 977.8 | 956.2 | 729.2 | 647.0 | 592.1 | 525.5 | 489.9 | 461.4 |
| 20° | 1160.8 | 1131.7 | 1108.1 | 1083.0 | 1060.4 | 797.7 | 693.2 | 619.8 | 535.4 | 490.3 | 454.7 |
| 22.5° | 1257.9 | 1239.8 | 1213.6 | 1186.4 | 1163.5 | 866.0 | 736.5 | 643.2 | 539.2 | 484.1 | 443.0 |
| 25° | 1368.5 | 1349.3 | 1317.3 | 1294.3 | 1268.6 | 935.7 | 778.9 | 661.4 | 536.9 | 472.7 | 424.9 |
| 27.5° | 1486.5 | 1465.1 | 1432.3 | 1408.4 | 1377.3 | 1008.0 | 817.8 | 674.4 | 529.0 | 454.0 | 400.6 |
| 30° | 1609.7 | 1590.1 | 1557.8 | 1533.5 | 1502.2 | 1084.7 | 861.5 | 683.3 | 512.9 | 428.0 | 372.3 |
| 32.5° | 1741.9 | 1725.6 | 1693.5 | 1668.2 | 1634.7 | 1167.6 | 902.0 | 685.9 | 488.7 | 397.3 | 342.3 |
| 35° | 1867.2 | 1856.1 | 1829.0 | 1805.4 | 1770.6 | 1246.2 | 944.9 | 684.7 | 459.8 | 363.8 | 315.0 |
| 37.5° | 2008.6 | 2002.0 | 1988.6 | 1958.3 | 1915.9 | 1352.8 | 996.5 | 679.1 | 424.5 | 330.2 | 294.3 |
| 40° | 2159.2 | 2159.7 | 2145.3 | 2124.8 | 2085.2 | 1482.1 | 1057.9 | 668.1 | 386.1 | 300.9 | 275.3 |
| 42.5° | 2318.5 | 2326.9 | 2320.0 | 2305.2 | 2267.3 | 1612.3 | 1131.3 | 654.8 | 348.7 | 272.4 | 256.6 |
| 45° | 2501.2 | 2511.4 | 2522.1 | 2500.4 | 2463.6 | 1784.3 | 1228.1 | 637.3 | 308.4 | 248.7 | 243.8 |
| 47.5° | 2712.0 | 2728.0 | 2737.6 | 2737.9 | 2700.9 | 1997.3 | 1385.0 | 626.9 | 272.6 | 232.7 | 237.6 |
| 50° | 3156.6 | 3161.6 | 3184.3 | 3223.7 | 3195.5 | 2490.6 | 1659.3 | 620.5 | 248.3 | 222.7 | 233.1 |
| 52.5° | 3797.1 | 3852.9 | 3892.1 | 3889.5 | 3851.0 | 2803.8 | 1810.4 | 587.4 | 233.9 | 218.9 | 231.0 |
| 55° | 4058.1 | 4127.7 | 4200.4 | 4219.6 | 4189.6 | 3071.0 | 1953.4 | 554.3 | 227.0 | 221.6 | 231.9 |
| 57.5° | 4405.6 | 4523.1 | 4622.8 | 4664.7 | 4621.4 | 3413.1 | 2141.3 | 536.9 | 224.8 | 228.9 | 236.9 |
| 60° | 4811.9 | 4957.0 | 5087.9 | 5163.2 | 5163.2 | 3806.2 | 2336.2 | 529.8 | 221.9 | 239.5 | 245.3 |
| 62.5° | 5072.6 | 5286.0 | 5483.7 | 5593.9 | 5590.7 | 4079.9 | 2422.6 | 505.1 | 215.2 | 247.0 | 257.2 |
| 65° | 5073.7 | 5327.5 | 5579.3 | 5703.2 | 5709.5 | 4046.2 | 2279.9 | 446.2 | 202.9 | 248.0 | 269.0 |
| 67.5° | 4650.7 | 4921.4 | 5214.8 | 5353.4 | 5385.3 | 3724.7 | 1973.5 | 366.9 | 183.0 | 237.4 | 273.2 |
| 70° | 3928.0 | 4192.0 | 4491.6 | 4627.9 | 4684.8 | 3175.1 | 1589.6 | 282.7 | 157.3 | 213.8 | 264.3 |
| 72.5° | 3094.7 | 3353.6 | 3562.0 | 3661.8 | 3706.0 | 2427.0 | 1157.6 | 213.6 | 128.9 | 180.2 | 240.6 |
| 75° | 2191.0 | 2385.4 | 2496.2 | 2518.3 | 2525.2 | 1463.0 | 703.4 | 158.9 | 106.3 | 140.1 | 203.1 |
| 77.5° | 1236.5 | 1319.9 | 1310.8 | 1320.7 | 1238.5 | 564.8 | 306.3 | 113.7 | 87.6 | 106.5 | 157.6 |
| 80° | 482.7 | 497.8 | 467.6 | 458.2 | 420.2 | 210.2 | 135.1 | 79.3 | 70.0 | 80.7 | 110.3 |
| 82.5° | 212.8 | 219.7 | 213.3 | 215.0 | 205.6 | 108.4 | 80.8 | 57.4 | 53.4 | 59.0 | 73.1 |
| 85° | 117.1 | 119.4 | 118.8 | 122.3 | 117.1 | 43.3 | 38.4 | 35.3 | 37.4 | 40.1 | 47.0 |
| 87.5° | 57.1 | 57.8 | 55.9 | 58.7 | 56.9 | 21.9 | 19.0 | 20.0 | 21.9 | 22.5 | 22.5 |
| 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° | 298.2 | 297.2 | 294.9 | 284.7 | 276.0 | 273.8 |
| 37.5° | 288.1 | 298.0 | 285.8 | 265.7 | 259.5 | 259.0 |
| 40° | 282.2 | 289.8 | 268.7 | 261.6 | 262.2 | 261.6 |
| 42.5° | 269.0 | 276.7 | 269.1 | 266.0 | 268.1 | 268.7 |
| 45° | 255.6 | 264.1 | 273.2 | 271.0 | 276.0 | 276.0 |
| 47.5° | 248.0 | 260.9 | 272.9 | 272.9 | 280.5 | 283.1 |
| 50° | 239.5 | 258.3 | 268.7 | 272.4 | 278.3 | 276.0 |
| 52.5° | 238.9 | 253.7 | 262.5 | 269.1 | 271.8 | 269.4 |
| 55° | 239.8 | 250.0 | 256.3 | 263.8 | 267.1 | 267.2 |
| 57.5° | 240.8 | 247.8 | 252.1 | 255.6 | 265.2 | 265.2 |
| 60° | 243.5 | 246.0 | 248.3 | 250.2 | 262.8 | 263.1 |
| 62.5° | 247.8 | 244.1 | 243.5 | 245.3 | 261.4 | 260.4 |
| 65° | 254.5 | 241.4 | 237.4 | 239.3 | 260.1 | 256.8 |
| 67.5° | 263.6 | 237.4 | 229.6 | 231.0 | 259.0 | 252.1 |
| 70° | 271.8 | 231.0 | 220.1 | 218.6 | 248.9 | 236.6 |
| 72.5° | 272.6 | 223.5 | 206.7 | 202.7 | 216.3 | 204.5 |
| 75° | 259.3 | 218.4 | 192.0 | 180.2 | 178.7 | 177.1 |
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| 80° | 195.6 | 204.5 | 154.4 | 132.4 | 149.7 | 148.0 |
| 82.5° | 146.1 | 180.5 | 131.2 | 117.1 | 117.0 | 103.3 |
| 85° | 81.1 | 140.8 | 106.8 | 87.9 | 61.2 | 59.3 |
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