

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: P301683

Luminaire Tested: **GLNA-AF-01-LED-E1-T2R-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194759)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-T2R-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4262 lumens
Efficiency: N/A
Efficacy: 125.4 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

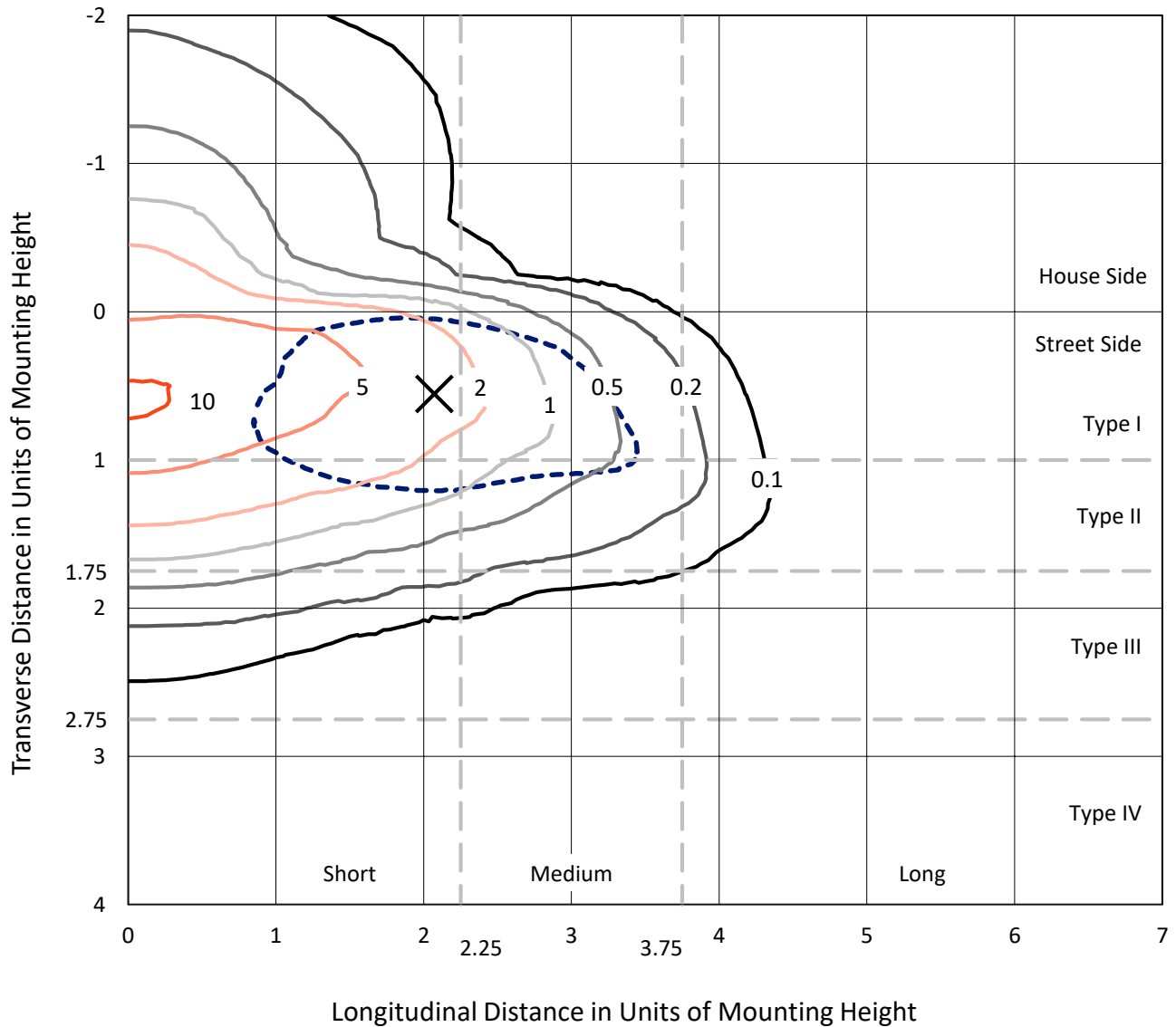
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

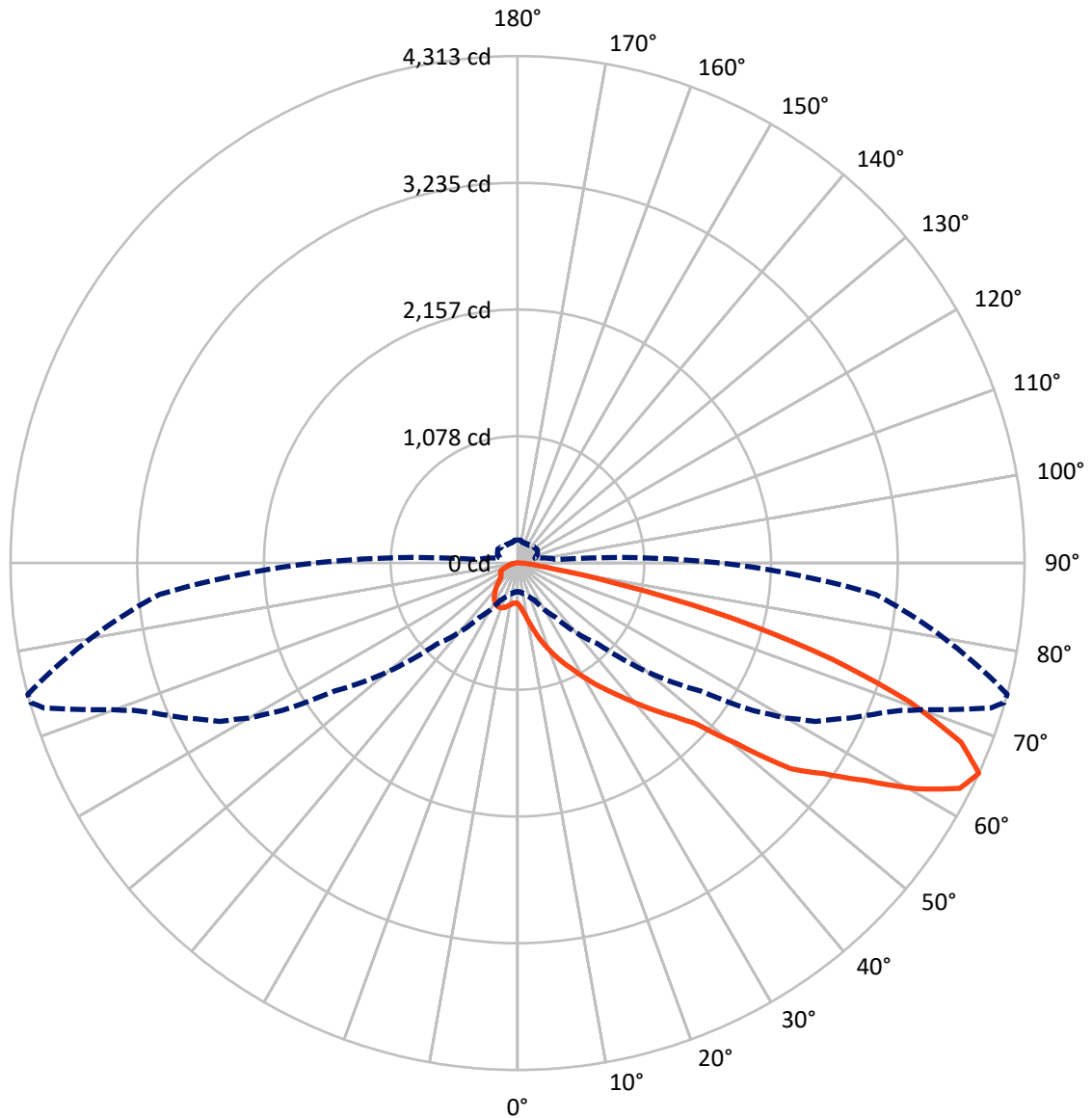
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 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 | 657.1 | 0.0 | 657.1 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 3604.9 | 0.0 | 3604.9 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 4262.0 | 0.0 | 4262.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.8 | 1.0 |
| 10°-20° | 167.3 | 3.9 |
| 20°-30° | 343.2 | 8.1 |
| 30°-40° | 577.4 | 13.5 |
| 40°-50° | 797.8 | 18.7 |
| 50°-60° | 995.9 | 23.4 |
| 60°-70° | 896.2 | 21.0 |
| 70°-80° | 375.7 | 8.8 |
| 80°-90° | 65.6 | 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° | 4262.0 | 100.0 |
| 0°-180° | 4262.0 | 100.0 |



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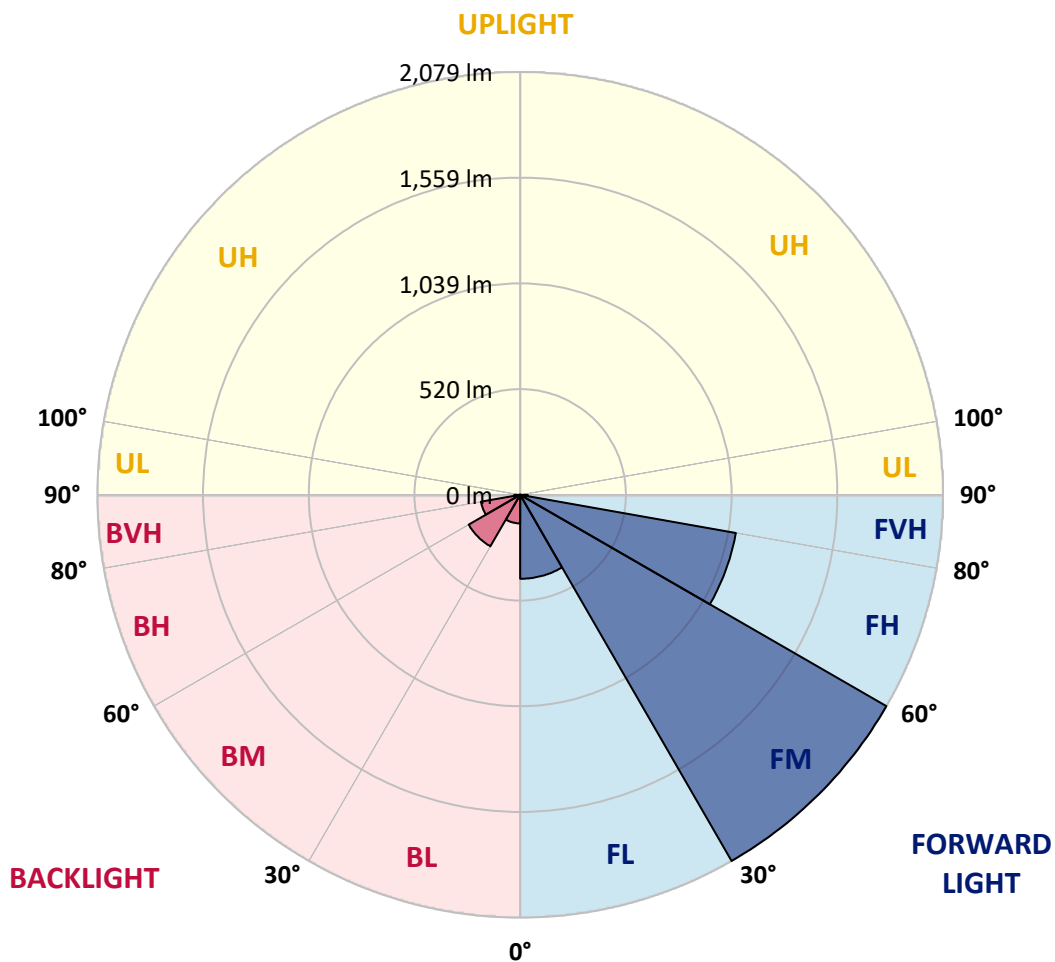
CATALOG NUMBER: GLNA-AF-01-LED-E1-T2R-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 412.8 | 9.7 | | | |
| FM (30°-60°) | 2078.7 | 48.8 | | | |
| FH (60°-80°) | 1076.6 | 25.3 | | | G1/1800 |
| FVH (80°-90°) | 36.9 | 0.9 | | | G1/100 |
| BL (0°-30°) | 140.5 | 3.3 | B1/500 | | |
| BM (30°-60°) | 292.5 | 6.9 | B1/1000 | | |
| BH (60°-80°) | 195.3 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 28.7 | 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





REPORT NUMBER: P301683

CATALOG NUMBER: GLNA-AF-01-LED-E1-T2R-600

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 |
| 2.5° | 439.8 | 434.9 | 436.1 | 428.1 | 418.2 | 405.3 | 391.0 | 390.8 | 391.0 | 389.5 | 384.3 |
| 5° | 609.8 | 604.0 | 601.8 | 583.6 | 557.0 | 519.1 | 477.9 | 473.5 | 471.6 | 467.0 | 456.3 |
| 7.5° | 733.9 | 730.7 | 727.2 | 713.5 | 689.3 | 647.0 | 591.7 | 582.2 | 573.1 | 570.9 | 558.8 |
| 10° | 814.0 | 813.1 | 805.9 | 802.3 | 787.2 | 750.4 | 696.6 | 687.5 | 677.6 | 674.2 | 661.4 |
| 12.5° | 877.3 | 877.1 | 873.7 | 874.7 | 861.6 | 835.0 | 788.6 | 780.3 | 773.1 | 762.5 | 753.5 |
| 15° | 921.1 | 921.3 | 926.4 | 932.0 | 930.0 | 912.0 | 868.4 | 864.8 | 858.6 | 851.3 | 840.6 |
| 17.5° | 957.0 | 958.0 | 963.2 | 973.5 | 984.7 | 983.2 | 948.8 | 945.7 | 940.3 | 930.4 | 924.8 |
| 20° | 1038.1 | 1041.9 | 1031.9 | 1031.9 | 1033.1 | 1038.5 | 1021.9 | 1019.5 | 1011.9 | 1006.6 | 1002.2 |
| 22.5° | 1175.1 | 1179.5 | 1156.7 | 1133.5 | 1110.7 | 1094.2 | 1077.7 | 1080.6 | 1075.4 | 1071.8 | 1069.2 |
| 25° | 1353.0 | 1356.5 | 1319.5 | 1280.4 | 1234.0 | 1173.5 | 1132.5 | 1130.7 | 1127.9 | 1125.7 | 1124.5 |
| 27.5° | 1520.4 | 1521.9 | 1487.0 | 1429.7 | 1375.8 | 1288.8 | 1188.2 | 1186.0 | 1182.6 | 1178.3 | 1174.7 |
| 30° | 1663.7 | 1663.3 | 1627.4 | 1572.7 | 1515.0 | 1418.8 | 1272.7 | 1265.9 | 1255.7 | 1244.3 | 1235.4 |
| 32.5° | 1787.8 | 1787.2 | 1747.8 | 1691.1 | 1630.6 | 1547.5 | 1388.5 | 1374.4 | 1358.7 | 1336.2 | 1322.8 |
| 35° | 1885.4 | 1885.0 | 1847.8 | 1788.8 | 1719.4 | 1668.7 | 1521.3 | 1503.9 | 1483.9 | 1453.9 | 1433.1 |
| 37.5° | 1922.3 | 1922.3 | 1901.5 | 1861.2 | 1799.8 | 1765.1 | 1668.7 | 1647.7 | 1626.4 | 1592.2 | 1568.8 |
| 40° | 1900.7 | 1901.1 | 1905.5 | 1898.1 | 1868.2 | 1841.6 | 1806.3 | 1793.8 | 1775.4 | 1744.8 | 1720.4 |
| 42.5° | 1828.3 | 1830.5 | 1860.0 | 1896.1 | 1911.0 | 1906.8 | 1928.3 | 1922.7 | 1909.8 | 1886.2 | 1866.8 |
| 45° | 1736.5 | 1743.4 | 1775.6 | 1843.8 | 1922.9 | 1963.0 | 2030.6 | 2031.2 | 2028.8 | 2016.1 | 2001.2 |
| 47.5° | 1610.4 | 1620.1 | 1662.7 | 1754.8 | 1895.1 | 2017.7 | 2134.5 | 2139.9 | 2145.0 | 2136.8 | 2129.9 |
| 50° | 1443.0 | 1454.5 | 1518.2 | 1640.5 | 1838.4 | 2074.4 | 2330.8 | 2355.4 | 2378.4 | 2375.6 | 2380.2 |
| 52.5° | 1263.6 | 1277.2 | 1355.2 | 1491.4 | 1741.0 | 2087.5 | 2456.3 | 2496.4 | 2536.6 | 2569.4 | 2604.3 |
| 55° | 1101.8 | 1094.6 | 1172.7 | 1316.1 | 1580.8 | 2028.4 | 2569.1 | 2617.5 | 2662.2 | 2702.6 | 2744.2 |
| 57.5° | 882.6 | 894.5 | 972.8 | 1114.6 | 1368.7 | 1861.5 | 2646.7 | 2717.5 | 2781.9 | 2848.7 | 2907.5 |
| 60° | 645.1 | 657.0 | 741.9 | 886.0 | 1138.6 | 1608.6 | 2587.4 | 2694.7 | 2797.8 | 2900.1 | 2980.0 |
| 62.5° | 389.5 | 398.4 | 473.2 | 610.5 | 878.0 | 1308.7 | 2323.1 | 2463.9 | 2615.6 | 2737.9 | 2860.3 |
| 65° | 242.5 | 247.5 | 275.2 | 350.6 | 563.8 | 977.0 | 1898.1 | 2051.6 | 2215.0 | 2370.1 | 2497.4 |
| 67.5° | 198.5 | 200.3 | 205.4 | 221.5 | 309.6 | 637.1 | 1412.7 | 1548.7 | 1696.1 | 1846.2 | 1987.9 |
| 70° | 178.5 | 177.3 | 177.3 | 178.3 | 198.5 | 342.5 | 924.9 | 1013.5 | 1136.4 | 1266.9 | 1396.4 |
| 72.5° | 161.2 | 160.0 | 157.7 | 154.8 | 162.0 | 209.0 | 478.1 | 544.9 | 633.4 | 749.4 | 873.5 |
| 75° | 144.8 | 143.2 | 140.6 | 136.8 | 141.8 | 157.7 | 229.6 | 257.6 | 300.8 | 362.5 | 431.7 |
| 77.5° | 127.9 | 125.9 | 123.5 | 120.6 | 127.1 | 122.7 | 134.5 | 144.6 | 161.2 | 181.0 | 207.0 |
| 80° | 108.7 | 106.9 | 106.1 | 104.7 | 112.4 | 93.4 | 95.0 | 101.3 | 110.9 | 121.7 | 133.7 |
| 82.5° | 85.2 | 85.2 | 88.3 | 89.0 | 97.4 | 67.2 | 71.0 | 76.5 | 81.5 | 87.1 | 92.8 |
| 85° | 56.1 | 56.5 | 67.4 | 71.6 | 76.8 | 45.2 | 53.3 | 55.1 | 59.1 | 62.4 | 64.8 |
| 87.5° | 17.5 | 19.0 | 41.2 | 45.6 | 44.2 | 25.6 | 32.7 | 33.5 | 36.3 | 38.5 | 40.6 |
| 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: GLNA-AF-01-LED-E1-T2R-600

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 |
| 2.5° | 384.3 | 381.9 | 379.6 | 379.5 | 377.8 | 375.6 | 376.4 | 373.0 | 373.2 | 371.4 | 369.4 |
| 5° | 451.9 | 450.3 | 442.2 | 440.0 | 433.9 | 430.1 | 429.5 | 421.4 | 420.4 | 415.8 | 410.7 |
| 7.5° | 549.1 | 543.9 | 532.5 | 527.1 | 516.8 | 509.1 | 505.6 | 494.8 | 489.6 | 477.5 | 472.0 |
| 10° | 651.0 | 644.3 | 630.4 | 622.7 | 612.9 | 600.5 | 593.9 | 578.4 | 572.3 | 561.2 | 547.9 |
| 12.5° | 745.4 | 738.8 | 724.4 | 718.5 | 705.4 | 692.3 | 685.1 | 667.6 | 659.7 | 641.9 | 631.4 |
| 15° | 832.7 | 826.1 | 813.6 | 807.5 | 794.4 | 783.7 | 774.0 | 756.7 | 747.4 | 730.9 | 717.2 |
| 17.5° | 917.5 | 910.4 | 899.5 | 894.1 | 881.4 | 870.5 | 860.0 | 843.6 | 834.2 | 817.6 | 805.3 |
| 20° | 996.1 | 990.9 | 983.0 | 975.7 | 963.1 | 953.2 | 940.7 | 926.6 | 912.8 | 900.7 | 889.0 |
| 22.5° | 1064.7 | 1062.7 | 1054.3 | 1051.0 | 1040.1 | 1031.6 | 1020.7 | 1006.9 | 996.9 | 981.6 | 970.7 |
| 25° | 1123.9 | 1123.3 | 1119.2 | 1118.2 | 1110.5 | 1102.4 | 1100.0 | 1088.5 | 1079.5 | 1065.9 | 1054.7 |
| 27.5° | 1174.7 | 1175.3 | 1174.3 | 1177.1 | 1175.1 | 1171.4 | 1171.7 | 1167.8 | 1162.6 | 1151.3 | 1141.4 |
| 30° | 1231.2 | 1227.9 | 1229.8 | 1233.8 | 1235.0 | 1235.4 | 1242.0 | 1244.3 | 1243.9 | 1236.4 | 1231.6 |
| 32.5° | 1311.0 | 1303.4 | 1296.3 | 1295.7 | 1299.7 | 1301.4 | 1312.7 | 1318.5 | 1323.6 | 1325.3 | 1326.2 |
| 35° | 1412.9 | 1397.6 | 1382.9 | 1375.0 | 1368.1 | 1369.9 | 1378.0 | 1387.5 | 1398.6 | 1406.3 | 1415.4 |
| 37.5° | 1541.2 | 1522.5 | 1496.4 | 1477.9 | 1473.2 | 1463.2 | 1468.4 | 1475.9 | 1486.7 | 1498.7 | 1514.4 |
| 40° | 1696.7 | 1668.3 | 1639.0 | 1614.4 | 1601.2 | 1582.6 | 1582.4 | 1580.9 | 1587.6 | 1598.7 | 1620.9 |
| 42.5° | 1846.5 | 1821.2 | 1790.1 | 1764.4 | 1747.0 | 1722.2 | 1717.1 | 1704.0 | 1707.0 | 1716.7 | 1738.3 |
| 45° | 1986.6 | 1965.8 | 1946.9 | 1917.1 | 1902.3 | 1875.5 | 1867.0 | 1851.5 | 1842.8 | 1847.2 | 1868.8 |
| 47.5° | 2122.4 | 2109.1 | 2089.3 | 2070.0 | 2058.7 | 2034.7 | 2023.8 | 2012.6 | 2001.6 | 2001.2 | 2023.8 |
| 50° | 2387.1 | 2380.0 | 2356.6 | 2336.5 | 2341.9 | 2312.5 | 2314.3 | 2284.4 | 2297.9 | 2299.5 | 2346.9 |
| 52.5° | 2635.8 | 2660.4 | 2677.8 | 2698.9 | 2712.7 | 2715.3 | 2724.4 | 2737.9 | 2754.2 | 2786.5 | 2830.5 |
| 55° | 2778.2 | 2809.1 | 2827.1 | 2843.2 | 2869.8 | 2875.5 | 2890.6 | 2908.6 | 2922.9 | 2959.2 | 2996.5 |
| 57.5° | 2947.5 | 3004.8 | 3032.6 | 3058.2 | 3094.1 | 3107.8 | 3133.1 | 3152.7 | 3171.2 | 3214.2 | 3259.4 |
| 60° | 3051.8 | 3121.6 | 3178.3 | 3218.8 | 3263.8 | 3296.1 | 3334.2 | 3364.9 | 3408.4 | 3459.9 | 3527.3 |
| 62.5° | 2968.9 | 3071.3 | 3146.6 | 3216.2 | 3277.3 | 3339.1 | 3393.7 | 3451.0 | 3517.2 | 3595.0 | 3699.6 |
| 65° | 2638.7 | 2742.9 | 2871.8 | 2944.0 | 3025.0 | 3120.2 | 3203.3 | 3296.1 | 3386.2 | 3499.6 | 3654.1 |
| 67.5° | 2124.3 | 2245.4 | 2390.3 | 2463.1 | 2556.1 | 2662.4 | 2755.7 | 2869.0 | 2974.3 | 3111.7 | 3302.7 |
| 70° | 1531.1 | 1687.9 | 1809.7 | 1885.8 | 1994.3 | 2103.8 | 2193.9 | 2325.7 | 2412.9 | 2553.7 | 2751.2 |
| 72.5° | 969.5 | 1093.2 | 1242.5 | 1338.3 | 1434.7 | 1545.7 | 1637.7 | 1751.4 | 1832.7 | 1961.0 | 2139.9 |
| 75° | 521.3 | 612.4 | 743.6 | 834.6 | 937.9 | 1032.7 | 1140.4 | 1216.6 | 1276.8 | 1378.2 | 1523.5 |
| 77.5° | 244.3 | 299.8 | 366.1 | 436.1 | 506.2 | 579.2 | 650.2 | 711.9 | 737.7 | 795.9 | 881.6 |
| 80° | 148.3 | 166.2 | 185.6 | 207.2 | 236.4 | 260.0 | 291.3 | 313.9 | 315.5 | 333.9 | 360.1 |
| 82.5° | 99.0 | 105.7 | 111.5 | 117.0 | 124.5 | 130.3 | 137.0 | 144.8 | 148.1 | 152.3 | 160.8 |
| 85° | 67.6 | 70.8 | 72.0 | 75.5 | 74.6 | 76.7 | 79.3 | 81.9 | 83.3 | 83.1 | 87.0 |
| 87.5° | 41.5 | 43.1 | 44.0 | 44.8 | 44.2 | 43.4 | 44.6 | 46.0 | 46.4 | 45.2 | 45.6 |
| 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: GLNA-AF-01-LED-E1-T2R-600

CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 | 346.4 |
| 2.5° | 369.8 | 368.0 | 366.1 | 364.9 | 364.5 | 353.9 | 349.2 | 346.2 | 339.7 | 334.5 | 330.2 |
| 5° | 407.9 | 404.1 | 401.1 | 397.4 | 395.4 | 368.3 | 358.5 | 351.6 | 340.3 | 333.7 | 327.6 |
| 7.5° | 469.2 | 458.5 | 452.3 | 445.2 | 439.2 | 390.4 | 374.0 | 363.3 | 347.6 | 338.7 | 331.8 |
| 10° | 538.8 | 527.8 | 517.8 | 506.9 | 497.5 | 419.6 | 395.8 | 379.2 | 358.5 | 347.0 | 337.9 |
| 12.5° | 616.5 | 605.6 | 593.1 | 579.2 | 567.1 | 456.7 | 423.6 | 400.1 | 371.6 | 356.2 | 343.6 |
| 15° | 708.3 | 689.1 | 674.0 | 657.9 | 643.7 | 501.1 | 456.1 | 423.5 | 385.5 | 364.7 | 347.8 |
| 17.5° | 793.6 | 773.4 | 752.9 | 738.8 | 722.4 | 550.9 | 488.8 | 447.2 | 397.0 | 370.2 | 348.6 |
| 20° | 876.9 | 854.9 | 837.2 | 818.2 | 801.1 | 602.6 | 523.7 | 468.2 | 404.5 | 370.4 | 343.6 |
| 22.5° | 950.4 | 936.6 | 916.9 | 896.3 | 878.9 | 654.2 | 556.4 | 486.0 | 407.3 | 365.8 | 334.6 |
| 25° | 1033.9 | 1019.4 | 995.1 | 977.8 | 958.4 | 706.9 | 588.4 | 499.7 | 405.7 | 357.1 | 320.9 |
| 27.5° | 1123.0 | 1106.9 | 1082.1 | 1064.0 | 1040.6 | 761.5 | 617.9 | 509.6 | 399.6 | 343.0 | 302.6 |
| 30° | 1216.0 | 1201.3 | 1176.9 | 1158.6 | 1134.9 | 819.4 | 650.8 | 516.2 | 387.5 | 323.4 | 281.2 |
| 32.5° | 1315.9 | 1303.6 | 1279.4 | 1260.2 | 1235.0 | 882.1 | 681.4 | 518.2 | 369.2 | 300.2 | 258.6 |
| 35° | 1410.7 | 1402.2 | 1381.8 | 1363.9 | 1337.7 | 941.5 | 713.9 | 517.2 | 347.4 | 274.7 | 238.1 |
| 37.5° | 1517.4 | 1512.4 | 1502.3 | 1479.5 | 1447.4 | 1021.9 | 752.9 | 513.0 | 320.8 | 249.5 | 222.3 |
| 40° | 1631.2 | 1631.6 | 1620.7 | 1605.2 | 1575.3 | 1119.6 | 799.3 | 504.7 | 291.7 | 227.3 | 208.0 |
| 42.5° | 1751.6 | 1757.9 | 1752.6 | 1741.6 | 1712.9 | 1218.0 | 854.7 | 494.7 | 263.5 | 205.7 | 193.9 |
| 45° | 1889.6 | 1897.3 | 1905.3 | 1889.0 | 1861.2 | 1348.0 | 927.7 | 481.6 | 233.0 | 187.8 | 184.2 |
| 47.5° | 2048.8 | 2060.9 | 2068.1 | 2068.4 | 2040.5 | 1508.9 | 1046.4 | 473.7 | 206.0 | 175.7 | 179.5 |
| 50° | 2384.6 | 2388.5 | 2405.6 | 2435.5 | 2414.1 | 1881.5 | 1253.5 | 468.8 | 187.6 | 168.2 | 176.1 |
| 52.5° | 2868.6 | 2910.8 | 2940.5 | 2938.4 | 2909.3 | 2118.2 | 1367.7 | 443.8 | 176.7 | 165.4 | 174.5 |
| 55° | 3065.7 | 3118.4 | 3173.2 | 3187.7 | 3165.2 | 2320.1 | 1475.7 | 418.8 | 171.5 | 167.4 | 175.1 |
| 57.5° | 3328.4 | 3417.1 | 3492.4 | 3524.0 | 3491.4 | 2578.5 | 1617.7 | 405.7 | 169.8 | 172.9 | 178.9 |
| 60° | 3635.2 | 3744.9 | 3843.8 | 3900.6 | 3900.6 | 2875.5 | 1765.0 | 400.2 | 167.6 | 181.0 | 185.4 |
| 62.5° | 3832.3 | 3993.5 | 4142.8 | 4226.1 | 4223.6 | 3082.2 | 1830.3 | 381.7 | 162.6 | 186.6 | 194.3 |
| 65° | 3833.1 | 4024.8 | 4214.9 | 4308.6 | 4313.4 | 3056.9 | 1722.4 | 337.1 | 153.3 | 187.4 | 203.2 |
| 67.5° | 3513.6 | 3717.9 | 3939.6 | 4044.3 | 4068.5 | 2813.9 | 1491.0 | 277.2 | 138.2 | 179.4 | 206.4 |
| 70° | 2967.4 | 3167.0 | 3393.3 | 3496.2 | 3539.2 | 2398.8 | 1200.9 | 213.6 | 118.8 | 161.6 | 199.7 |
| 72.5° | 2337.8 | 2533.5 | 2691.1 | 2766.3 | 2799.8 | 1833.5 | 874.5 | 161.4 | 97.4 | 136.1 | 181.7 |
| 75° | 1655.2 | 1802.1 | 1885.8 | 1902.5 | 1907.7 | 1105.3 | 531.3 | 120.0 | 80.3 | 105.9 | 153.5 |
| 77.5° | 934.2 | 997.2 | 990.3 | 997.8 | 935.6 | 426.7 | 231.4 | 85.9 | 66.2 | 80.5 | 119.0 |
| 80° | 364.7 | 376.1 | 353.3 | 346.2 | 317.5 | 158.8 | 102.1 | 59.9 | 52.8 | 60.9 | 83.3 |
| 82.5° | 160.8 | 166.0 | 161.2 | 162.4 | 155.4 | 81.9 | 61.1 | 43.4 | 40.3 | 44.6 | 55.3 |
| 85° | 88.6 | 90.2 | 89.8 | 92.4 | 88.6 | 32.7 | 29.0 | 26.6 | 28.2 | 30.3 | 35.5 |
| 87.5° | 43.1 | 43.6 | 42.2 | 44.4 | 43.0 | 16.5 | 14.3 | 15.1 | 16.5 | 16.9 | 16.9 |
| 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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| 2.5° | 327.2 | 325.6 | 325.8 | 325.4 | 324.6 | 324.6 |
| 5° | 324.4 | 322.8 | 322.8 | 322.4 | 321.4 | 321.5 |
| 7.5° | 327.2 | 324.6 | 323.6 | 322.1 | 320.8 | 320.8 |
| 10° | 330.5 | 325.8 | 323.0 | 320.6 | 318.7 | 318.7 |
| 12.5° | 332.8 | 325.6 | 320.9 | 317.7 | 315.9 | 315.9 |
| 15° | 333.7 | 324.2 | 317.7 | 313.9 | 312.3 | 312.1 |
| 17.5° | 331.1 | 318.7 | 310.9 | 306.5 | 304.4 | 303.8 |
| 20° | 323.0 | 308.9 | 299.4 | 294.3 | 291.5 | 290.5 |
| 22.5° | 310.9 | 294.7 | 283.7 | 278.4 | 274.7 | 274.1 |
| 25° | 293.9 | 276.6 | 265.7 | 260.6 | 258.6 | 258.0 |
| 27.5° | 274.1 | 258.0 | 248.7 | 245.5 | 243.7 | 243.5 |
| 30° | 255.4 | 241.6 | 234.8 | 232.4 | 230.2 | 229.8 |
| 32.5° | 237.8 | 229.1 | 226.6 | 223.1 | 217.9 | 217.3 |
| 35° | 225.3 | 224.5 | 222.7 | 215.0 | 208.6 | 206.8 |
| 37.5° | 217.6 | 225.1 | 215.9 | 200.7 | 196.1 | 195.7 |
| 40° | 213.2 | 218.9 | 202.9 | 197.7 | 198.1 | 197.7 |
| 42.5° | 203.2 | 209.0 | 203.3 | 201.0 | 202.5 | 202.9 |
| 45° | 193.1 | 199.5 | 206.4 | 204.8 | 208.6 | 208.6 |
| 47.5° | 187.4 | 197.1 | 206.2 | 206.2 | 211.8 | 213.8 |
| 50° | 181.0 | 195.1 | 202.9 | 205.7 | 210.2 | 208.6 |
| 52.5° | 180.5 | 191.6 | 198.3 | 203.3 | 205.4 | 203.5 |
| 55° | 181.1 | 188.8 | 193.7 | 199.3 | 201.7 | 201.9 |
| 57.5° | 182.0 | 187.2 | 190.4 | 193.1 | 200.3 | 200.3 |
| 60° | 184.0 | 185.8 | 187.6 | 189.0 | 198.5 | 198.7 |
| 62.5° | 187.2 | 184.4 | 184.0 | 185.4 | 197.5 | 196.7 |
| 65° | 192.3 | 182.3 | 179.4 | 180.7 | 196.5 | 194.1 |
| 67.5° | 199.1 | 179.4 | 173.5 | 174.5 | 195.7 | 190.4 |
| 70° | 205.4 | 174.5 | 166.2 | 165.2 | 188.0 | 178.8 |
| 72.5° | 206.0 | 168.9 | 156.1 | 153.1 | 163.4 | 154.5 |
| 75° | 195.9 | 165.0 | 145.1 | 136.1 | 134.9 | 133.7 |
| 77.5° | 176.5 | 162.8 | 132.1 | 118.2 | 115.8 | 116.6 |
| 80° | 147.7 | 154.5 | 116.6 | 100.1 | 113.2 | 111.8 |
| 82.5° | 110.4 | 136.4 | 99.0 | 88.6 | 88.3 | 78.1 |
| 85° | 61.3 | 106.3 | 80.7 | 66.4 | 46.2 | 44.8 |
| 87.5° | 17.2 | 59.1 | 56.5 | 37.5 | 25.6 | 26.6 |
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