

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: P301563

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301563
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
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6469.8 lumens
Efficiency: N/A
Efficacy: 109.7 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

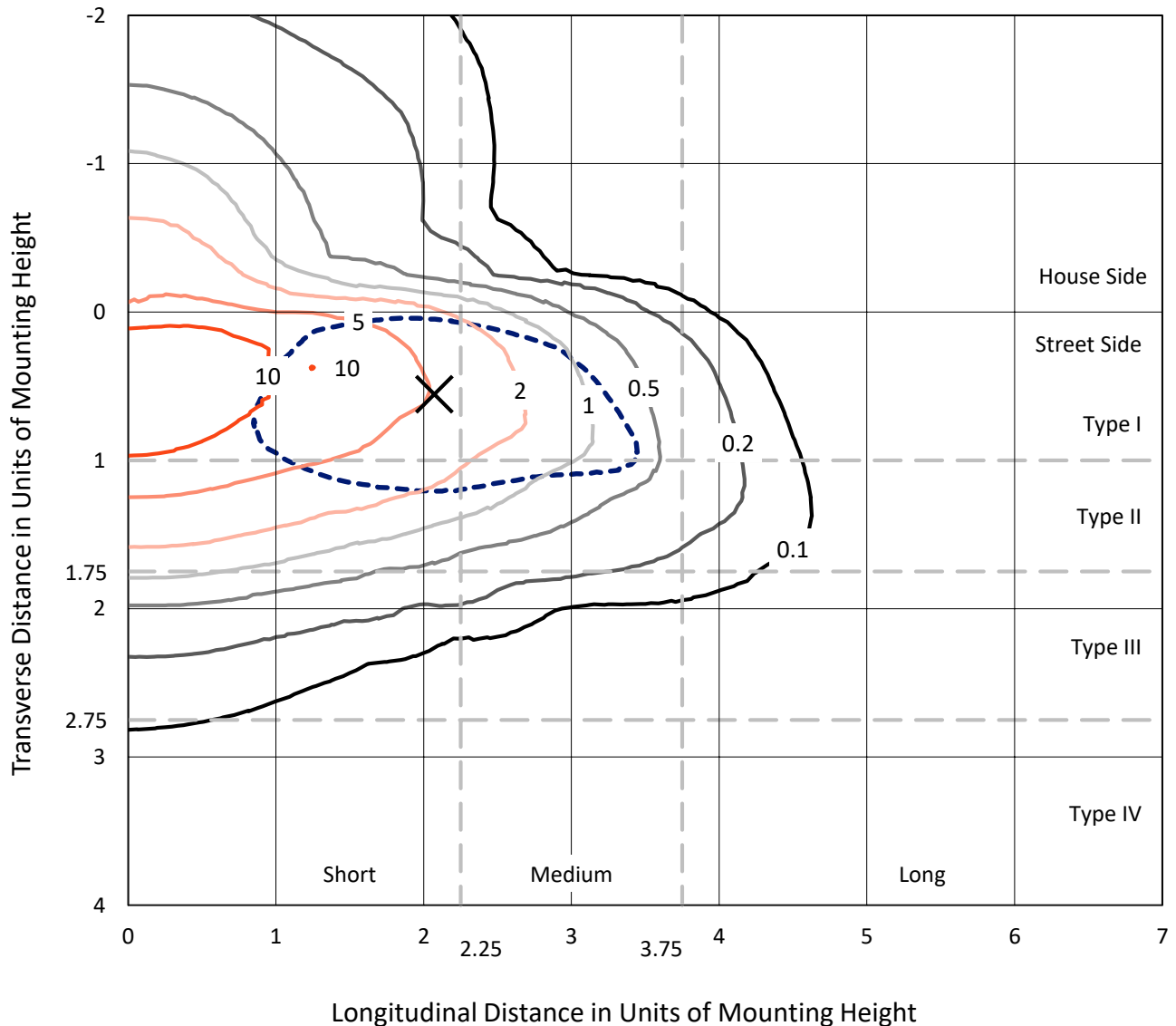


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

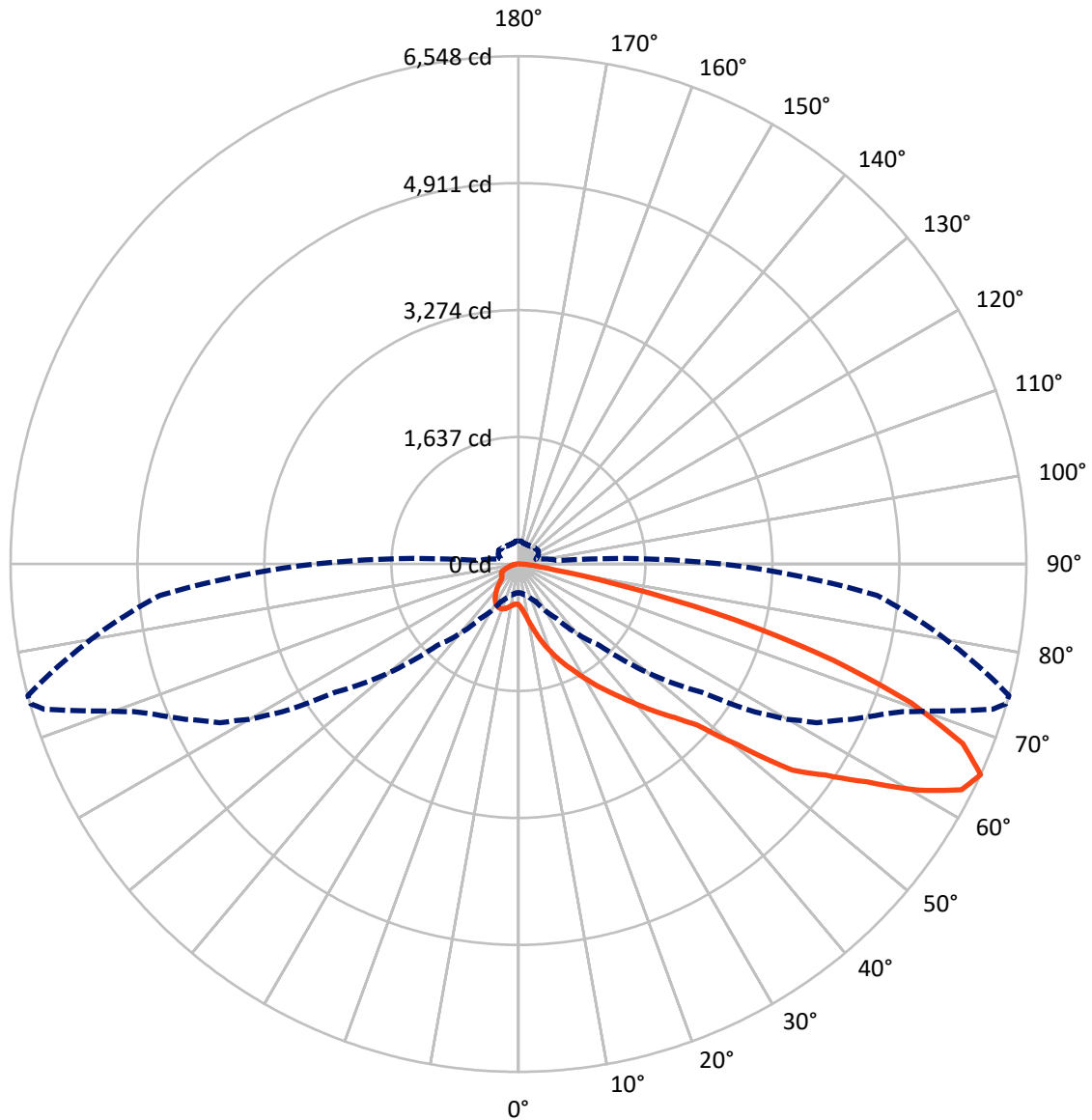


Based on 10 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Short - Full Cutoff

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

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 | 997.5 | 0.0 | 997.5 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 5472.3 | 0.0 | 5472.3 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 6469.8 | 0.0 | 6469.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 65.0 | 1.0 |
| 10°-20° | 253.9 | 3.9 |
| 20°-30° | 521.0 | 8.1 |
| 30°-40° | 876.5 | 13.5 |
| 40°-50° | 1211.1 | 18.7 |
| 50°-60° | 1511.8 | 23.4 |
| 60°-70° | 1360.5 | 21.0 |
| 70°-80° | 570.3 | 8.8 |
| 80°-90° | 99.6 | 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° | 6469.8 | 100.0 |
| 0°-180° | 6469.8 | 100.0 |

Coefficient of Utilization



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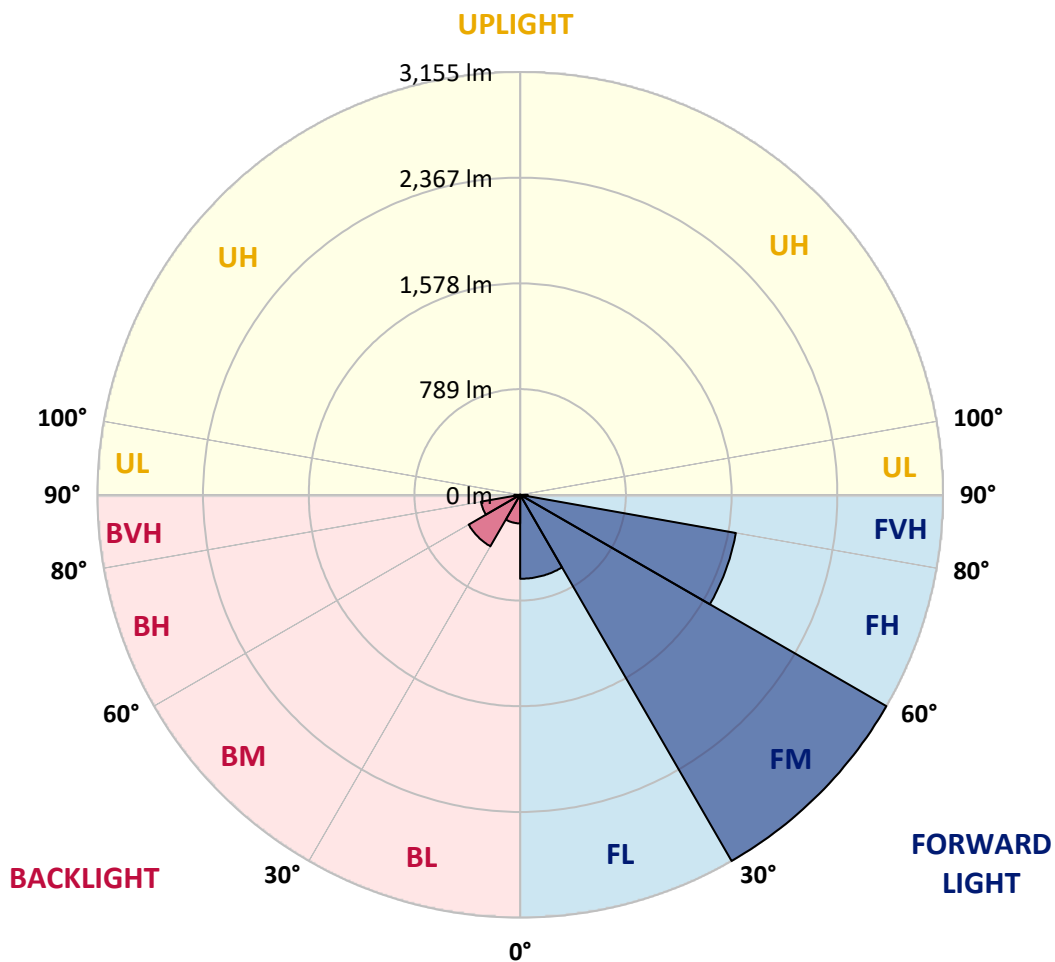
CATALOG NUMBER: GLNA-AF-01-LED-E1-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 626.6 | 9.7 | | | |
| FM (30°-60°) | 3155.4 | 48.8 | | | |
| FH (60°-80°) | 1634.2 | 25.3 | | | G1/1800 |
| FVH (80°-90°) | 56.0 | 0.9 | | | G1/100 |
| BL (0°-30°) | 213.3 | 3.3 | B1/500 | | |
| BM (30°-60°) | 444.0 | 6.9 | B1/1000 | | |
| BH (60°-80°) | 296.5 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 43.6 | 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° | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 |
| 2.5° | 667.6 | 660.2 | 662.1 | 649.8 | 634.8 | 615.2 | 593.5 | 593.2 | 593.5 | 591.3 | 583.4 |
| 5° | 925.7 | 916.9 | 913.5 | 885.9 | 845.5 | 788.0 | 725.5 | 718.7 | 715.9 | 708.9 | 692.7 |
| 7.5° | 1114.1 | 1109.2 | 1103.9 | 1083.1 | 1046.4 | 982.1 | 898.2 | 883.8 | 870.0 | 866.6 | 848.3 |
| 10° | 1235.6 | 1234.4 | 1223.4 | 1217.8 | 1194.9 | 1139.2 | 1057.4 | 1043.6 | 1028.6 | 1023.4 | 1004.1 |
| 12.5° | 1331.7 | 1331.5 | 1326.3 | 1327.8 | 1307.8 | 1267.5 | 1197.0 | 1184.5 | 1173.5 | 1157.5 | 1143.8 |
| 15° | 1398.2 | 1398.5 | 1406.2 | 1414.8 | 1411.7 | 1384.4 | 1318.3 | 1312.8 | 1303.3 | 1292.3 | 1276.1 |
| 17.5° | 1452.7 | 1454.3 | 1462.2 | 1477.8 | 1494.7 | 1492.5 | 1440.2 | 1435.6 | 1427.3 | 1412.3 | 1403.8 |
| 20° | 1575.8 | 1581.6 | 1566.4 | 1566.4 | 1568.2 | 1576.5 | 1551.3 | 1547.7 | 1536.0 | 1528.0 | 1521.3 |
| 22.5° | 1783.8 | 1790.5 | 1755.9 | 1720.7 | 1686.1 | 1660.9 | 1635.9 | 1640.4 | 1632.5 | 1627.0 | 1623.0 |
| 25° | 2053.8 | 2059.1 | 2003.1 | 1943.6 | 1873.2 | 1781.3 | 1719.2 | 1716.4 | 1712.1 | 1708.7 | 1706.9 |
| 27.5° | 2308.0 | 2310.2 | 2257.2 | 2170.2 | 2088.4 | 1956.5 | 1803.7 | 1800.3 | 1795.1 | 1788.7 | 1783.1 |
| 30° | 2525.5 | 2524.9 | 2470.3 | 2387.3 | 2299.7 | 2153.7 | 1932.0 | 1921.6 | 1906.2 | 1888.8 | 1875.3 |
| 32.5° | 2713.8 | 2712.9 | 2653.1 | 2567.1 | 2475.3 | 2349.1 | 2107.8 | 2086.4 | 2062.5 | 2028.4 | 2008.0 |
| 35° | 2862.0 | 2861.4 | 2805.0 | 2715.3 | 2610.0 | 2533.1 | 2309.3 | 2282.9 | 2252.6 | 2207.0 | 2175.5 |
| 37.5° | 2918.0 | 2918.0 | 2886.5 | 2825.3 | 2732.2 | 2679.5 | 2533.1 | 2501.2 | 2468.8 | 2417.0 | 2381.5 |
| 40° | 2885.2 | 2885.9 | 2892.6 | 2881.3 | 2836.0 | 2795.6 | 2742.0 | 2723.0 | 2695.1 | 2648.6 | 2611.5 |
| 42.5° | 2775.3 | 2778.7 | 2823.4 | 2878.2 | 2900.8 | 2894.5 | 2927.2 | 2918.7 | 2899.0 | 2863.2 | 2833.8 |
| 45° | 2636.0 | 2646.4 | 2695.4 | 2798.9 | 2918.9 | 2979.9 | 3082.4 | 3083.3 | 3079.7 | 3060.5 | 3037.7 |
| 47.5° | 2444.6 | 2459.3 | 2523.9 | 2663.8 | 2876.7 | 3062.9 | 3240.1 | 3248.4 | 3256.1 | 3243.6 | 3233.1 |
| 50° | 2190.5 | 2207.9 | 2304.7 | 2490.2 | 2790.7 | 3148.9 | 3538.1 | 3575.5 | 3610.4 | 3606.1 | 3613.1 |
| 52.5° | 1918.2 | 1938.7 | 2057.2 | 2264.0 | 2642.8 | 3168.8 | 3728.6 | 3789.6 | 3850.5 | 3900.4 | 3953.3 |
| 55° | 1672.6 | 1661.6 | 1780.1 | 1997.8 | 2399.6 | 3079.1 | 3899.8 | 3973.3 | 4041.3 | 4102.5 | 4165.6 |
| 57.5° | 1339.7 | 1357.8 | 1476.6 | 1691.9 | 2077.7 | 2825.8 | 4017.7 | 4125.2 | 4222.9 | 4324.2 | 4413.6 |
| 60° | 979.3 | 997.4 | 1126.3 | 1344.9 | 1728.4 | 2441.8 | 3927.6 | 4090.6 | 4247.0 | 4402.3 | 4523.6 |
| 62.5° | 591.3 | 604.8 | 718.4 | 926.7 | 1332.7 | 1986.5 | 3526.5 | 3740.2 | 3970.5 | 4156.1 | 4342.0 |
| 65° | 368.1 | 375.7 | 417.7 | 532.2 | 855.9 | 1483.1 | 2881.3 | 3114.3 | 3362.3 | 3597.9 | 3791.1 |
| 67.5° | 301.3 | 304.0 | 311.8 | 336.2 | 470.0 | 967.1 | 2144.5 | 2350.9 | 2574.7 | 2802.6 | 3017.6 |
| 70° | 271.0 | 269.2 | 269.2 | 270.7 | 301.3 | 520.0 | 1404.0 | 1538.5 | 1725.0 | 1923.1 | 2119.7 |
| 72.5° | 244.6 | 242.8 | 239.5 | 234.9 | 245.9 | 317.2 | 725.7 | 827.1 | 961.6 | 1137.6 | 1325.9 |
| 75° | 219.8 | 217.4 | 213.5 | 207.7 | 215.3 | 239.5 | 348.5 | 391.1 | 456.6 | 550.3 | 655.3 |
| 77.5° | 194.1 | 191.0 | 187.4 | 183.1 | 192.9 | 186.2 | 204.2 | 219.6 | 244.6 | 274.7 | 314.2 |
| 80° | 165.1 | 162.3 | 161.1 | 159.0 | 170.6 | 141.8 | 144.3 | 153.7 | 168.4 | 184.7 | 203.0 |
| 82.5° | 129.3 | 129.3 | 134.1 | 135.1 | 147.9 | 102.0 | 107.8 | 116.1 | 123.7 | 132.3 | 140.9 |
| 85° | 85.1 | 85.8 | 102.3 | 108.7 | 116.6 | 68.6 | 80.8 | 83.6 | 89.8 | 94.7 | 98.3 |
| 87.5° | 26.6 | 28.8 | 62.5 | 69.2 | 67.0 | 38.9 | 49.6 | 50.9 | 55.1 | 58.5 | 61.6 |
| 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

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 |
| 2.5° | 583.4 | 579.7 | 576.3 | 576.0 | 573.6 | 570.2 | 571.4 | 566.2 | 566.5 | 563.8 | 560.7 |
| 5° | 685.9 | 683.5 | 671.2 | 667.9 | 658.7 | 652.9 | 652.0 | 639.7 | 638.2 | 631.2 | 623.4 |
| 7.5° | 833.6 | 825.6 | 808.4 | 800.1 | 784.5 | 772.9 | 767.4 | 751.2 | 743.2 | 724.8 | 716.6 |
| 10° | 988.2 | 978.1 | 956.9 | 945.3 | 930.3 | 911.6 | 901.5 | 878.0 | 868.7 | 851.9 | 831.7 |
| 12.5° | 1131.5 | 1121.4 | 1099.6 | 1090.7 | 1070.8 | 1050.9 | 1040.0 | 1013.3 | 1001.3 | 974.4 | 958.5 |
| 15° | 1264.1 | 1254.0 | 1235.0 | 1225.8 | 1205.9 | 1189.7 | 1174.9 | 1148.7 | 1134.6 | 1109.4 | 1088.6 |
| 17.5° | 1392.7 | 1382.0 | 1365.4 | 1357.2 | 1337.9 | 1321.4 | 1305.5 | 1280.6 | 1266.2 | 1241.2 | 1222.5 |
| 20° | 1512.2 | 1504.2 | 1492.3 | 1481.2 | 1461.9 | 1446.9 | 1427.9 | 1406.5 | 1385.7 | 1367.3 | 1349.5 |
| 22.5° | 1616.3 | 1613.2 | 1600.4 | 1595.5 | 1578.9 | 1566.0 | 1549.5 | 1528.4 | 1513.3 | 1490.1 | 1473.5 |
| 25° | 1706.0 | 1705.1 | 1698.9 | 1697.4 | 1685.7 | 1673.5 | 1669.9 | 1652.4 | 1638.6 | 1618.1 | 1601.0 |
| 27.5° | 1783.1 | 1784.0 | 1782.6 | 1786.9 | 1783.8 | 1778.2 | 1778.6 | 1772.8 | 1764.8 | 1747.6 | 1732.6 |
| 30° | 1868.9 | 1864.0 | 1866.8 | 1872.9 | 1874.7 | 1875.3 | 1885.4 | 1888.8 | 1888.2 | 1876.9 | 1869.5 |
| 32.5° | 1990.2 | 1978.5 | 1967.8 | 1966.9 | 1973.0 | 1975.4 | 1992.6 | 2001.5 | 2009.1 | 2011.9 | 2013.1 |
| 35° | 2144.8 | 2121.5 | 2099.2 | 2087.3 | 2076.8 | 2079.5 | 2091.8 | 2106.3 | 2123.1 | 2134.7 | 2148.5 |
| 37.5° | 2339.5 | 2311.1 | 2271.6 | 2243.4 | 2236.3 | 2221.1 | 2229.0 | 2240.3 | 2256.9 | 2274.9 | 2298.8 |
| 40° | 2575.6 | 2532.5 | 2488.1 | 2450.7 | 2430.6 | 2402.3 | 2402.0 | 2399.9 | 2410.0 | 2426.8 | 2460.5 |
| 42.5° | 2802.9 | 2764.6 | 2717.4 | 2678.3 | 2651.9 | 2614.2 | 2606.6 | 2586.7 | 2591.3 | 2606.0 | 2638.8 |
| 45° | 3015.7 | 2984.1 | 2955.4 | 2910.1 | 2887.7 | 2847.0 | 2834.1 | 2810.5 | 2797.4 | 2804.1 | 2836.9 |
| 47.5° | 3221.8 | 3201.6 | 3171.6 | 3142.2 | 3125.0 | 3088.6 | 3072.1 | 3055.2 | 3038.4 | 3037.7 | 3072.1 |
| 50° | 3623.6 | 3612.9 | 3577.3 | 3546.7 | 3555.0 | 3510.3 | 3513.0 | 3467.7 | 3488.2 | 3490.7 | 3562.6 |
| 52.5° | 4001.1 | 4038.5 | 4064.9 | 4097.0 | 4117.9 | 4121.8 | 4135.6 | 4156.1 | 4180.9 | 4229.9 | 4296.6 |
| 55° | 4217.3 | 4264.2 | 4291.5 | 4316.0 | 4356.4 | 4364.9 | 4387.9 | 4415.2 | 4436.9 | 4492.0 | 4548.7 |
| 57.5° | 4474.3 | 4561.3 | 4603.5 | 4642.4 | 4696.9 | 4717.7 | 4756.0 | 4785.7 | 4813.9 | 4879.1 | 4947.7 |
| 60° | 4632.6 | 4738.6 | 4824.6 | 4886.1 | 4954.4 | 5003.5 | 5061.3 | 5107.8 | 5174.0 | 5252.1 | 5354.4 |
| 62.5° | 4506.7 | 4662.3 | 4776.5 | 4882.2 | 4974.9 | 5068.7 | 5151.6 | 5238.7 | 5339.0 | 5457.2 | 5615.9 |
| 65° | 4005.5 | 4163.7 | 4359.4 | 4469.0 | 4591.9 | 4736.4 | 4862.6 | 5003.5 | 5140.3 | 5312.4 | 5547.0 |
| 67.5° | 3224.6 | 3408.6 | 3628.5 | 3739.0 | 3880.2 | 4041.5 | 4183.1 | 4355.1 | 4515.0 | 4723.5 | 5013.6 |
| 70° | 2324.3 | 2562.2 | 2747.1 | 2862.6 | 3027.4 | 3193.6 | 3330.3 | 3530.5 | 3662.7 | 3876.5 | 4176.4 |
| 72.5° | 1471.7 | 1659.4 | 1886.1 | 2031.5 | 2177.8 | 2346.3 | 2486.0 | 2658.7 | 2782.0 | 2976.8 | 3248.4 |
| 75° | 791.3 | 929.7 | 1128.7 | 1266.9 | 1423.7 | 1567.6 | 1731.1 | 1846.8 | 1938.1 | 2092.2 | 2312.6 |
| 77.5° | 370.8 | 455.0 | 555.8 | 662.1 | 768.3 | 879.2 | 987.0 | 1080.7 | 1119.9 | 1208.1 | 1338.2 |
| 80° | 225.1 | 252.4 | 281.7 | 314.5 | 358.9 | 394.7 | 442.2 | 476.5 | 478.9 | 506.8 | 546.6 |
| 82.5° | 150.3 | 160.4 | 169.3 | 177.6 | 189.0 | 197.9 | 207.9 | 219.8 | 224.7 | 231.2 | 244.1 |
| 85° | 102.6 | 107.5 | 109.3 | 114.6 | 113.3 | 116.4 | 120.4 | 124.4 | 126.5 | 126.2 | 132.0 |
| 87.5° | 63.0 | 65.5 | 66.8 | 67.9 | 67.0 | 65.9 | 67.7 | 69.9 | 70.4 | 68.6 | 69.2 |
| 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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CATALOG NUMBER: GLNA-AF-01-LED-E1-T2R

CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 |
| 2.5° | 561.3 | 558.6 | 555.8 | 554.0 | 553.3 | 537.1 | 530.1 | 525.5 | 515.7 | 507.7 | 501.3 |
| 5° | 619.2 | 613.4 | 608.8 | 603.3 | 600.2 | 559.1 | 544.1 | 533.8 | 516.6 | 506.5 | 497.3 |
| 7.5° | 712.3 | 696.0 | 686.6 | 675.9 | 666.7 | 592.6 | 567.8 | 551.5 | 527.6 | 514.2 | 503.7 |
| 10° | 817.9 | 801.1 | 786.1 | 769.5 | 755.2 | 637.0 | 600.8 | 575.7 | 544.1 | 526.7 | 512.9 |
| 12.5° | 935.9 | 919.3 | 900.3 | 879.2 | 860.8 | 693.3 | 643.1 | 607.3 | 564.0 | 540.8 | 521.5 |
| 15° | 1075.2 | 1046.0 | 1023.1 | 998.6 | 977.2 | 760.7 | 692.4 | 642.8 | 585.2 | 553.7 | 528.0 |
| 17.5° | 1204.7 | 1174.0 | 1142.9 | 1121.4 | 1096.6 | 836.3 | 742.0 | 678.9 | 602.6 | 561.9 | 529.2 |
| 20° | 1331.2 | 1297.8 | 1270.9 | 1242.1 | 1216.0 | 914.7 | 795.0 | 710.7 | 614.0 | 562.2 | 521.5 |
| 22.5° | 1442.7 | 1421.8 | 1391.8 | 1360.5 | 1334.2 | 993.1 | 844.6 | 737.7 | 618.3 | 555.2 | 508.0 |
| 25° | 1569.4 | 1547.4 | 1510.6 | 1484.3 | 1454.9 | 1073.0 | 893.2 | 758.5 | 615.8 | 542.1 | 487.2 |
| 27.5° | 1704.7 | 1680.3 | 1642.6 | 1615.1 | 1579.6 | 1156.0 | 937.9 | 773.5 | 606.6 | 520.6 | 459.3 |
| 30° | 1845.9 | 1823.6 | 1786.5 | 1758.7 | 1722.8 | 1243.9 | 987.9 | 783.6 | 588.3 | 490.9 | 426.9 |
| 32.5° | 1997.5 | 1978.8 | 1942.1 | 1913.0 | 1874.7 | 1339.1 | 1034.4 | 786.7 | 560.4 | 455.7 | 392.6 |
| 35° | 2141.4 | 2128.6 | 2097.6 | 2070.4 | 2030.6 | 1429.1 | 1083.7 | 785.1 | 527.3 | 417.1 | 361.4 |
| 37.5° | 2303.5 | 2295.8 | 2280.5 | 2245.9 | 2197.2 | 1551.3 | 1142.9 | 778.7 | 486.9 | 378.8 | 337.5 |
| 40° | 2476.2 | 2476.8 | 2460.3 | 2436.6 | 2391.3 | 1699.6 | 1213.3 | 766.2 | 442.8 | 345.1 | 315.7 |
| 42.5° | 2658.9 | 2668.5 | 2660.5 | 2643.7 | 2600.2 | 1849.0 | 1297.5 | 750.9 | 400.0 | 312.3 | 294.3 |
| 45° | 2868.4 | 2880.0 | 2892.3 | 2867.5 | 2825.3 | 2046.2 | 1408.3 | 731.0 | 353.6 | 285.1 | 279.6 |
| 47.5° | 3110.1 | 3128.4 | 3139.4 | 3139.8 | 3097.5 | 2290.6 | 1588.4 | 719.0 | 312.7 | 266.7 | 272.5 |
| 50° | 3619.9 | 3625.8 | 3651.7 | 3697.1 | 3664.6 | 2856.2 | 1902.9 | 711.7 | 284.8 | 255.4 | 267.3 |
| 52.5° | 4354.5 | 4418.5 | 4463.6 | 4460.5 | 4416.4 | 3215.3 | 2076.2 | 673.7 | 268.3 | 251.1 | 264.9 |
| 55° | 4653.7 | 4733.7 | 4817.0 | 4839.0 | 4804.7 | 3521.9 | 2240.1 | 635.7 | 260.3 | 254.2 | 265.8 |
| 57.5° | 5052.4 | 5187.1 | 5301.4 | 5349.5 | 5299.9 | 3914.2 | 2455.6 | 615.8 | 257.8 | 262.4 | 271.6 |
| 60° | 5518.2 | 5684.8 | 5834.9 | 5921.1 | 5921.1 | 4364.9 | 2679.2 | 607.5 | 254.4 | 274.7 | 281.4 |
| 62.5° | 5817.4 | 6062.0 | 6288.7 | 6415.1 | 6411.4 | 4678.8 | 2778.4 | 579.4 | 246.8 | 283.2 | 294.9 |
| 65° | 5818.6 | 6109.6 | 6398.2 | 6540.4 | 6547.7 | 4640.3 | 2614.6 | 511.7 | 232.7 | 284.5 | 308.4 |
| 67.5° | 5333.6 | 5643.7 | 5980.3 | 6139.3 | 6176.0 | 4271.6 | 2263.3 | 420.8 | 209.8 | 272.3 | 313.3 |
| 70° | 4504.6 | 4807.4 | 5151.0 | 5307.2 | 5372.5 | 3641.3 | 1822.9 | 324.3 | 180.4 | 245.3 | 303.1 |
| 72.5° | 3548.8 | 3845.9 | 4085.1 | 4199.2 | 4250.1 | 2783.3 | 1327.5 | 245.0 | 147.9 | 206.7 | 275.9 |
| 75° | 2512.6 | 2735.5 | 2862.6 | 2888.0 | 2895.9 | 1677.8 | 806.6 | 182.2 | 121.9 | 160.8 | 233.0 |
| 77.5° | 1418.1 | 1513.7 | 1503.2 | 1514.6 | 1420.3 | 647.7 | 351.3 | 130.4 | 100.5 | 122.2 | 180.7 |
| 80° | 553.7 | 570.8 | 536.2 | 525.5 | 482.0 | 241.0 | 155.0 | 90.9 | 80.2 | 92.5 | 126.5 |
| 82.5° | 244.1 | 252.0 | 244.6 | 246.5 | 235.8 | 124.4 | 92.7 | 65.9 | 61.2 | 67.7 | 83.9 |
| 85° | 134.4 | 136.9 | 136.3 | 140.3 | 134.4 | 49.6 | 44.1 | 40.4 | 42.9 | 46.0 | 53.9 |
| 87.5° | 65.5 | 66.1 | 64.0 | 67.4 | 65.2 | 25.1 | 21.7 | 23.0 | 25.1 | 25.7 | 25.7 |
| 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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| 0° | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 |
| 2.5° | 496.7 | 494.3 | 494.5 | 493.9 | 492.7 | 492.7 |
| 5° | 492.5 | 490.0 | 490.0 | 489.4 | 487.8 | 488.1 |
| 7.5° | 496.7 | 492.7 | 491.2 | 489.0 | 486.9 | 486.9 |
| 10° | 501.6 | 494.5 | 490.3 | 486.6 | 483.8 | 483.8 |
| 12.5° | 505.3 | 494.3 | 487.2 | 482.3 | 479.6 | 479.6 |
| 15° | 506.5 | 492.1 | 482.3 | 476.5 | 474.0 | 473.7 |
| 17.5° | 502.5 | 483.8 | 471.9 | 465.2 | 462.1 | 461.2 |
| 20° | 490.3 | 468.8 | 454.5 | 446.8 | 442.5 | 440.9 |
| 22.5° | 471.9 | 447.4 | 430.6 | 422.6 | 417.1 | 416.1 |
| 25° | 446.2 | 419.9 | 403.3 | 395.6 | 392.6 | 391.6 |
| 27.5° | 416.1 | 391.6 | 377.5 | 372.6 | 369.9 | 369.6 |
| 30° | 387.7 | 366.8 | 356.5 | 352.7 | 349.4 | 348.8 |
| 32.5° | 361.0 | 347.8 | 343.9 | 338.7 | 330.8 | 329.8 |
| 35° | 342.0 | 340.8 | 338.1 | 326.4 | 316.7 | 313.9 |
| 37.5° | 330.4 | 341.7 | 327.7 | 304.7 | 297.7 | 297.1 |
| 40° | 323.7 | 332.3 | 308.0 | 300.1 | 300.7 | 300.1 |
| 42.5° | 308.4 | 317.2 | 308.7 | 305.0 | 307.4 | 308.0 |
| 45° | 293.1 | 302.9 | 313.3 | 310.9 | 316.7 | 316.7 |
| 47.5° | 284.5 | 299.1 | 312.9 | 312.9 | 321.6 | 324.6 |
| 50° | 274.7 | 296.1 | 308.0 | 312.3 | 319.1 | 316.7 |
| 52.5° | 274.1 | 290.9 | 301.0 | 308.7 | 311.8 | 309.0 |
| 55° | 275.0 | 286.6 | 294.0 | 302.6 | 306.2 | 306.5 |
| 57.5° | 276.2 | 284.2 | 289.1 | 293.1 | 304.0 | 304.0 |
| 60° | 279.2 | 282.1 | 284.8 | 287.0 | 301.3 | 301.6 |
| 62.5° | 284.2 | 279.9 | 279.2 | 281.4 | 299.8 | 298.6 |
| 65° | 291.9 | 276.8 | 272.3 | 274.3 | 298.2 | 294.6 |
| 67.5° | 302.2 | 272.3 | 263.3 | 264.9 | 297.1 | 289.1 |
| 70° | 311.8 | 264.9 | 252.4 | 250.8 | 285.4 | 271.3 |
| 72.5° | 312.7 | 256.4 | 237.0 | 232.5 | 248.1 | 234.6 |
| 75° | 297.3 | 250.5 | 220.2 | 206.7 | 204.8 | 203.0 |
| 77.5° | 268.0 | 247.1 | 200.6 | 179.4 | 175.8 | 177.0 |
| 80° | 224.2 | 234.6 | 177.0 | 151.9 | 171.8 | 169.7 |
| 82.5° | 167.5 | 207.0 | 150.3 | 134.4 | 134.1 | 118.5 |
| 85° | 93.1 | 161.4 | 122.5 | 100.7 | 70.1 | 67.9 |
| 87.5° | 26.1 | 89.8 | 85.8 | 57.0 | 38.9 | 40.4 |
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