

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: P298938

Luminaire Tested: **GLNA-AF-04-LED-E1-SLL-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-04-LED-E1-SLL-7060-800
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Left OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16991.5 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 171
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

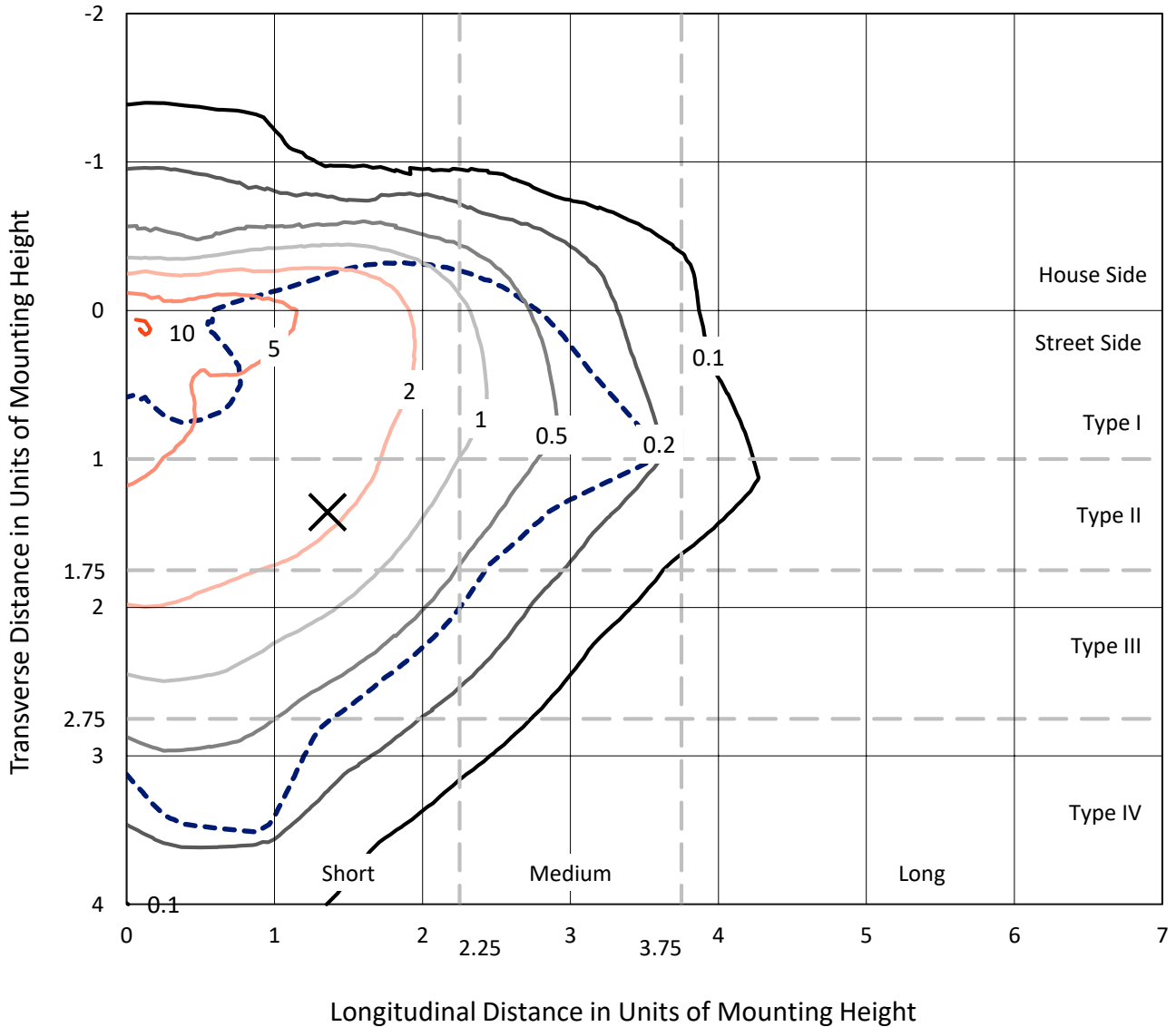


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Iso-Footcandle Lines of Horizontal Illumination

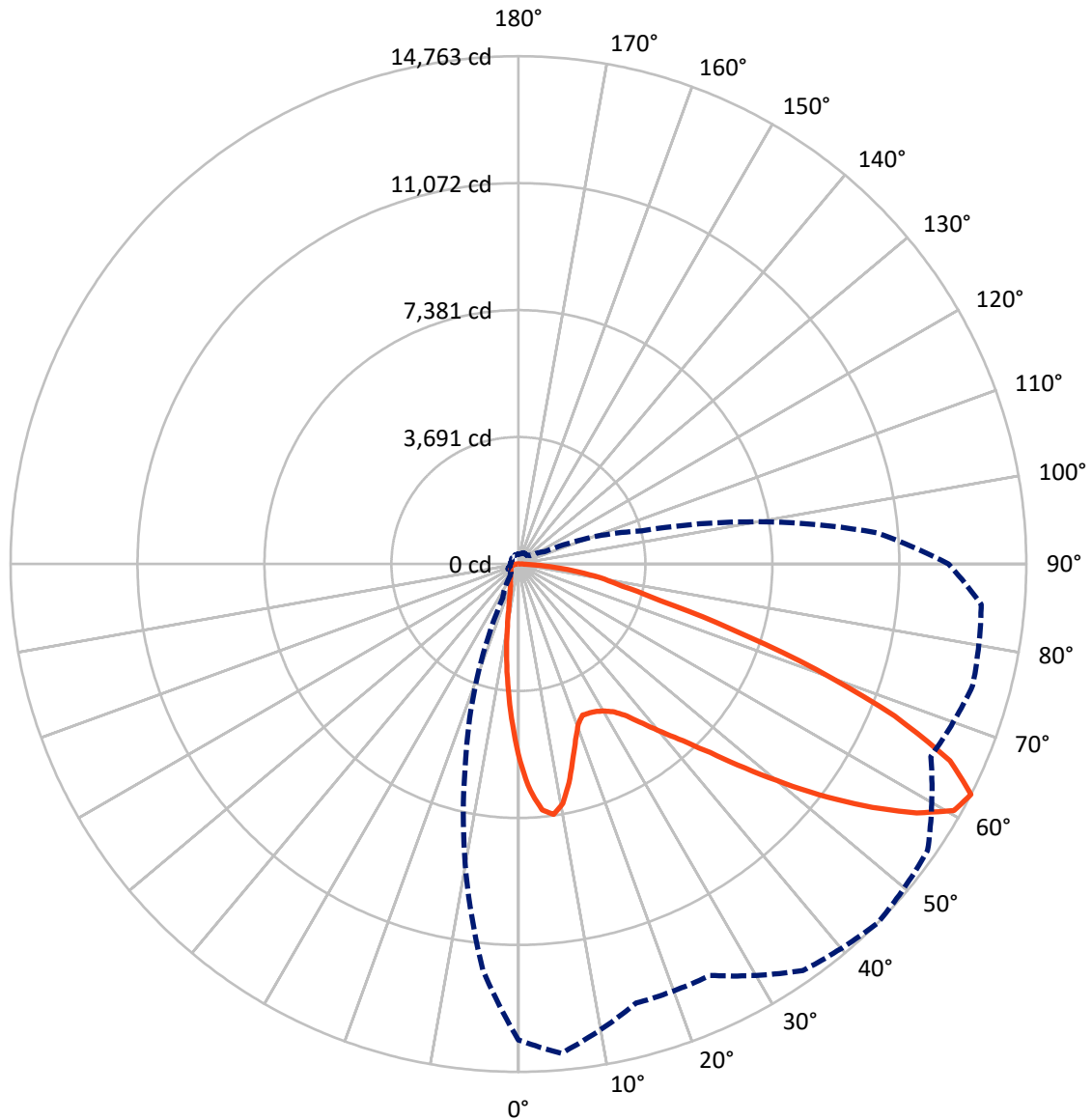
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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 | 2811.8 | 0.0 | 2811.8 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 14179.6 | 0.0 | 14179.6 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 16991.5 | 0.0 | 16991.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 417.9 | 2.5 |
| 10°-20° | 766.3 | 4.5 |
| 20°-30° | 1117.3 | 6.6 |
| 30°-40° | 1720.8 | 10.1 |
| 40°-50° | 2532.5 | 14.9 |
| 50°-60° | 3714.6 | 21.9 |
| 60°-70° | 4152.4 | 24.4 |
| 70°-80° | 2033.0 | 12.0 |
| 80°-90° | 536.8 | 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° | 16991.5 | 100.0 |
| 0°-180° | 16991.5 | 100.0 |

Coefficient of Utilization



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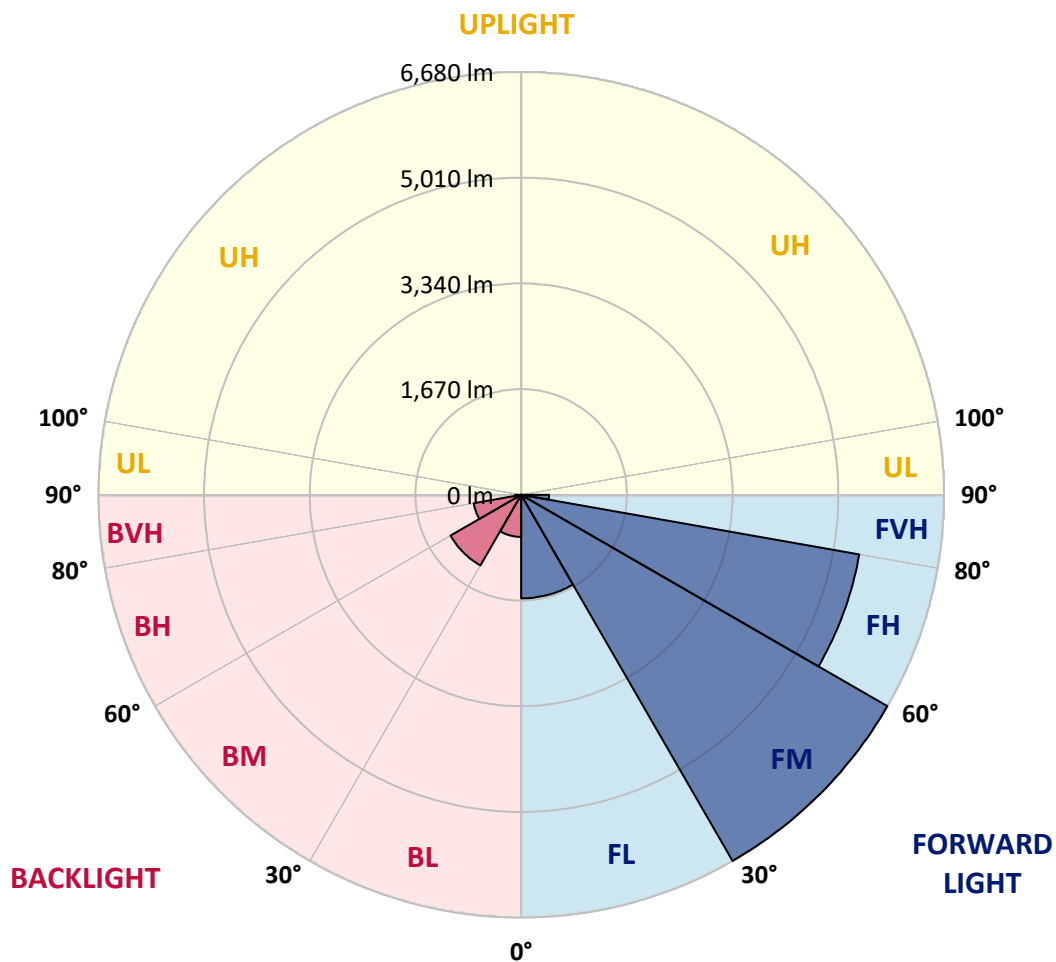
CATALOG NUMBER: GLNA-AF-04-LED-E1-SLL-7060-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1636.2 | 9.6 | | | |
| FM | (30°-60°) | 6679.5 | 39.3 | | | |
| FH | (60°-80°) | 5423.1 | 31.9 | | | G3/7500 |
| FVH | (80°-90°) | 440.8 | 2.6 | | | G3/500 |
| BL | (0°-30°) | 665.2 | 3.9 | B2/1000 | | |
| BM | (30°-60°) | 1288.4 | 7.6 | B2/2500 | | |
| BH | (60°-80°) | 762.3 | 4.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 96.0 | 0.6 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





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CATALOG NUMBER: GLNA-AF-04-LED-E1-SLL-7060-800

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 |
| 2.5° | 5964.6 | 6060.1 | 6246.0 | 6384.9 | 6554.4 | 6593.5 | 6647.8 | 6594.4 | 6500.1 | 6374.9 | 6333.9 |
| 5° | 5608.9 | 5812.7 | 6263.6 | 6660.8 | 7013.7 | 7178.1 | 7224.2 | 7088.3 | 6814.8 | 6455.2 | 6235.7 |
| 7.5° | 5038.3 | 5327.8 | 5938.5 | 6523.4 | 7043.5 | 7350.9 | 7343.3 | 7028.6 | 6525.3 | 5939.4 | 5587.4 |
| 10° | 4545.8 | 4876.7 | 5577.4 | 6231.1 | 6783.0 | 7081.1 | 6965.8 | 6563.8 | 5962.8 | 5288.4 | 4906.7 |
| 12.5° | 4270.5 | 4594.7 | 5305.4 | 5961.9 | 6423.4 | 6526.2 | 6438.2 | 6044.0 | 5477.9 | 4796.3 | 4461.9 |
| 15° | 4222.6 | 4578.9 | 5197.2 | 5731.4 | 5990.1 | 5900.6 | 5795.7 | 5619.2 | 5219.3 | 4637.4 | 4289.0 |
| 17.5° | 4429.4 | 4821.5 | 5321.5 | 5570.7 | 5526.8 | 5370.6 | 5340.9 | 5360.6 | 5264.5 | 4813.9 | 4412.4 |
| 20° | 4825.4 | 5296.0 | 5617.4 | 5495.2 | 5174.7 | 4959.7 | 4967.3 | 5267.2 | 5551.9 | 5261.4 | 4802.7 |
| 22.5° | 5380.9 | 5918.2 | 6044.0 | 5535.2 | 5026.1 | 4771.1 | 4833.0 | 5318.7 | 6010.7 | 5915.5 | 5329.7 |
| 25° | 6100.1 | 6589.8 | 6499.2 | 5680.8 | 5041.0 | 4794.5 | 4843.9 | 5496.1 | 6552.2 | 6569.2 | 5981.9 |
| 27.5° | 6796.9 | 7251.2 | 6880.9 | 5874.2 | 5102.9 | 4849.7 | 4915.2 | 5775.1 | 7069.8 | 7279.1 | 6727.2 |
| 30° | 7340.6 | 7656.6 | 7032.2 | 6050.7 | 5224.1 | 4957.0 | 5038.3 | 6040.4 | 7305.4 | 7758.1 | 7300.6 |
| 32.5° | 7790.9 | 8017.7 | 7273.3 | 6269.3 | 5447.3 | 5125.9 | 5269.0 | 6362.7 | 7644.4 | 8214.2 | 7861.8 |
| 35° | 8366.1 | 8430.7 | 7573.2 | 6513.1 | 5792.1 | 5420.3 | 5597.7 | 6678.4 | 7967.7 | 8674.5 | 8414.9 |
| 37.5° | 9040.8 | 8957.7 | 7856.1 | 6846.7 | 6237.8 | 5880.6 | 6027.4 | 7025.0 | 8233.6 | 9196.6 | 8979.8 |
| 40° | 9707.5 | 9507.4 | 8211.5 | 7364.0 | 6887.9 | 6423.4 | 6597.1 | 7394.9 | 8482.2 | 9719.7 | 9532.0 |
| 42.5° | 10274.5 | 9978.3 | 8561.4 | 7932.8 | 7492.8 | 7022.2 | 7229.6 | 7767.5 | 8719.3 | 10166.0 | 10011.1 |
| 45° | 10693.9 | 10325.8 | 8894.9 | 8479.2 | 8327.0 | 7817.9 | 7916.1 | 8194.2 | 8976.2 | 10539.0 | 10405.2 |
| 47.5° | 11068.4 | 10675.1 | 9272.1 | 9030.4 | 9056.5 | 8852.8 | 8694.8 | 8691.1 | 9279.1 | 10843.4 | 10777.9 |
| 50° | 11569.9 | 11159.9 | 9677.5 | 9598.1 | 10151.1 | 10015.6 | 9667.2 | 9271.2 | 9661.7 | 11189.1 | 11181.5 |
| 52.5° | 12261.2 | 11928.0 | 10172.7 | 10210.0 | 11173.3 | 11261.8 | 10830.0 | 9968.3 | 10261.2 | 11823.1 | 11778.5 |
| 55° | 13078.7 | 12884.0 | 10847.3 | 10913.4 | 12426.5 | 12490.2 | 12061.1 | 10839.4 | 11143.3 | 12741.5 | 12617.2 |
| 57.5° | 13716.4 | 13675.4 | 11586.9 | 11757.9 | 13362.5 | 13648.5 | 13254.3 | 11848.6 | 12136.9 | 13514.7 | 13202.7 |
| 60° | 13970.5 | 14169.4 | 12374.3 | 12609.6 | 14228.5 | 14544.8 | 14199.4 | 12734.6 | 13017.8 | 13835.2 | 13162.7 |
| 62.5° | 13833.4 | 14277.6 | 13213.0 | 13193.3 | 14421.7 | 14762.5 | 14519.6 | 13227.9 | 13670.9 | 13504.4 | 12496.8 |
| 65° | 13199.1 | 13888.3 | 13699.7 | 13042.9 | 13760.3 | 13788.2 | 13709.7 | 13007.5 | 13824.9 | 12459.2 | 11209.4 |
| 67.5° | 11817.3 | 12809.5 | 13058.7 | 11754.3 | 11976.2 | 11794.3 | 11662.4 | 11800.6 | 13021.4 | 10892.8 | 9420.7 |
| 70° | 9625.4 | 11118.1 | 11237.3 | 9401.3 | 9300.3 | 9177.8 | 8915.5 | 9674.8 | 11436.5 | 8927.7 | 7475.2 |
| 72.5° | 7077.4 | 8646.6 | 9013.5 | 6895.2 | 6428.2 | 6453.1 | 6246.0 | 7290.9 | 9298.5 | 6631.7 | 5581.0 |
| 75° | 4842.1 | 6260.8 | 7052.2 | 4811.2 | 4251.1 | 4261.1 | 4234.7 | 5166.2 | 7406.1 | 4613.2 | 4176.2 |
| 77.5° | 3537.3 | 4473.1 | 5318.7 | 3234.4 | 3140.1 | 3082.2 | 3068.3 | 3614.7 | 5678.1 | 3349.7 | 3242.9 |
| 80° | 2838.4 | 3304.8 | 3572.5 | 2241.7 | 2410.6 | 2406.0 | 2328.4 | 2485.5 | 3708.1 | 2450.0 | 2425.4 |
| 82.5° | 1969.1 | 2539.8 | 2894.5 | 1756.8 | 1627.1 | 1599.8 | 1618.9 | 1851.1 | 2621.0 | 1674.7 | 1592.5 |
| 85° | 1038.8 | 1686.8 | 2866.6 | 1557.0 | 965.7 | 770.5 | 958.5 | 1515.8 | 2270.8 | 887.5 | 776.8 |
| 87.5° | 132.8 | 487.6 | 1897.8 | 621.3 | 381.1 | 205.3 | 455.1 | 853.6 | 1458.2 | 181.0 | 158.0 |
| 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: GLNA-AF-04-LED-E1-SLL-7060-800

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 |
| 2.5° | 6228.4 | 6104.1 | 5941.6 | 5790.9 | 5635.0 | 5479.8 | 5277.2 | 5150.2 | 5062.5 | 5045.6 | 5008.6 |
| 5° | 6077.1 | 5664.1 | 5352.1 | 5082.2 | 4837.5 | 4491.6 | 4300.2 | 4141.4 | 4056.5 | 4048.3 | 4027.6 |
| 7.5° | 5379.1 | 4809.3 | 4388.2 | 4006.1 | 3659.5 | 3380.3 | 3071.9 | 2928.5 | 2869.4 | 2883.3 | 2897.2 |
| 10° | 4653.2 | 4016.4 | 3532.5 | 3141.9 | 2836.6 | 2601.3 | 2353.9 | 2186.8 | 2070.7 | 2047.3 | 2042.8 |
| 12.5° | 4122.9 | 3424.2 | 2954.6 | 2678.6 | 2442.7 | 2221.1 | 1958.8 | 1761.4 | 1611.3 | 1559.8 | 1525.5 |
| 15° | 3898.5 | 3134.7 | 2642.5 | 2345.4 | 2084.6 | 1803.5 | 1559.8 | 1353.3 | 1215.3 | 1170.4 | 1145.3 |
| 17.5° | 3946.4 | 3054.3 | 2427.6 | 2047.3 | 1714.1 | 1420.6 | 1113.4 | 936.6 | 853.6 | 832.3 | 832.3 |
| 20° | 4196.8 | 3039.5 | 2249.9 | 1772.9 | 1356.9 | 1017.0 | 765.0 | 664.0 | 637.1 | 634.3 | 641.6 |
| 22.5° | 4548.0 | 3091.9 | 2117.7 | 1534.9 | 1054.6 | 742.6 | 595.8 | 558.5 | 546.4 | 549.4 | 557.6 |
| 25° | 5071.0 | 3268.4 | 2021.6 | 1322.6 | 827.5 | 608.0 | 531.2 | 509.1 | 503.3 | 510.9 | 521.2 |
| 27.5° | 5691.1 | 3444.9 | 1961.5 | 1162.8 | 698.6 | 555.8 | 505.2 | 482.1 | 485.8 | 495.2 | 504.3 |
| 30° | 6235.7 | 3589.8 | 1867.2 | 1049.1 | 658.6 | 558.5 | 505.2 | 473.6 | 470.0 | 471.8 | 474.5 |
| 32.5° | 6724.5 | 3687.7 | 1756.8 | 940.6 | 567.9 | 496.1 | 471.8 | 467.3 | 446.3 | 438.8 | 440.0 |
| 35° | 7145.6 | 3687.7 | 1690.7 | 877.2 | 509.1 | 440.0 | 400.9 | 377.5 | 366.9 | 367.8 | 378.4 |
| 37.5° | 7552.0 | 3613.8 | 1658.0 | 841.4 | 477.3 | 418.4 | 383.9 | 363.3 | 349.3 | 346.6 | 348.4 |
| 40° | 7910.4 | 3506.4 | 1620.7 | 826.6 | 453.0 | 405.4 | 373.0 | 355.7 | 340.8 | 336.3 | 337.2 |
| 42.5° | 8198.1 | 3419.4 | 1579.5 | 807.2 | 437.8 | 396.0 | 365.1 | 350.2 | 333.5 | 328.7 | 327.8 |
| 45° | 8509.2 | 3390.6 | 1525.5 | 767.7 | 445.4 | 396.9 | 363.3 | 347.5 | 330.5 | 325.0 | 323.2 |
| 47.5° | 8919.2 | 3481.2 | 1469.4 | 721.1 | 461.5 | 401.8 | 366.0 | 347.5 | 329.6 | 325.0 | 323.2 |
| 50° | 9435.5 | 3694.1 | 1398.1 | 652.8 | 445.4 | 414.8 | 365.1 | 344.5 | 329.6 | 325.0 | 321.4 |
| 52.5° | 10099.0 | 3981.9 | 1305.1 | 574.6 | 436.0 | 446.3 | 363.3 | 339.0 | 325.0 | 318.7 | 312.0 |
| 55° | 10904.9 | 4217.2 | 1193.5 | 510.0 | 414.8 | 437.8 | 360.5 | 332.6 | 317.8 | 308.4 | 302.6 |
| 57.5° | 11495.3 | 4302.1 | 1051.0 | 468.2 | 384.8 | 423.9 | 356.6 | 324.1 | 308.4 | 300.8 | 293.5 |
| 60° | 11378.6 | 4137.7 | 930.3 | 441.8 | 366.9 | 383.0 | 353.9 | 316.6 | 299.9 | 294.4 | 287.5 |
| 62.5° | 10443.7 | 3708.1 | 852.6 | 429.7 | 355.7 | 349.3 | 356.6 | 309.3 | 292.6 | 286.5 | 284.7 |
| 65° | 9041.7 | 3073.7 | 822.0 | 426.9 | 346.6 | 329.6 | 331.7 | 300.8 | 283.8 | 279.3 | 277.4 |
| 67.5° | 7458.3 | 2480.9 | 795.0 | 436.0 | 334.4 | 315.7 | 306.6 | 289.6 | 275.3 | 270.8 | 267.1 |
| 70° | 5881.5 | 2063.4 | 782.6 | 430.6 | 319.6 | 301.7 | 291.7 | 277.4 | 265.3 | 260.5 | 257.7 |
| 72.5° | 4736.3 | 1742.9 | 775.9 | 424.8 | 299.9 | 282.9 | 273.5 | 261.4 | 248.3 | 246.5 | 243.8 |
| 75° | 4008.2 | 1370.2 | 711.0 | 407.2 | 277.4 | 260.5 | 254.1 | 242.9 | 229.8 | 229.8 | 228.0 |
| 77.5° | 3091.9 | 990.9 | 591.3 | 360.5 | 254.1 | 235.3 | 229.8 | 221.3 | 206.5 | 209.2 | 208.3 |
| 80° | 2283.8 | 646.5 | 462.4 | 299.0 | 225.3 | 207.4 | 204.4 | 196.2 | 180.1 | 184.1 | 184.1 |
| 82.5° | 1564.6 | 423.9 | 332.6 | 244.7 | 192.2 | 175.6 | 175.6 | 167.1 | 149.5 | 151.3 | 157.1 |
| 85° | 785.6 | 291.7 | 248.3 | 189.5 | 149.5 | 141.0 | 141.0 | 134.6 | 116.7 | 117.6 | 125.2 |
| 87.5° | 239.2 | 175.6 | 164.3 | 135.5 | 107.3 | 105.5 | 100.7 | 96.1 | 84.9 | 84.0 | 88.8 |
| 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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CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 | 5740.8 |
| 2.5° | 4951.2 | 4897.9 | 4833.9 | 4691.7 | 4644.1 | 4641.1 | 4684.4 | 4639.2 | 4725.4 | 4689.0 | 4729.0 |
| 5° | 3992.8 | 3940.9 | 3868.8 | 3687.7 | 3577.4 | 3502.5 | 3467.3 | 3362.7 | 3438.2 | 3383.0 | 3429.1 |
| 7.5° | 2936.7 | 2948.8 | 2901.2 | 2794.8 | 2554.6 | 2434.2 | 2363.3 | 2299.6 | 2354.8 | 2349.0 | 2437.0 |
| 10° | 2064.3 | 2096.8 | 2063.4 | 1956.1 | 1761.4 | 1695.3 | 1708.3 | 1733.5 | 1805.7 | 1842.7 | 1978.2 |
| 12.5° | 1486.1 | 1484.3 | 1462.7 | 1366.6 | 1238.6 | 1245.9 | 1299.3 | 1343.0 | 1409.4 | 1448.8 | 1586.7 |
| 15° | 1109.5 | 1092.8 | 1083.4 | 1004.9 | 932.1 | 948.2 | 974.2 | 978.8 | 1020.9 | 1044.3 | 1156.5 |
| 17.5° | 838.7 | 847.2 | 857.2 | 801.4 | 746.2 | 735.9 | 715.6 | 690.1 | 702.6 | 707.1 | 762.9 |
| 20° | 665.9 | 699.5 | 725.0 | 685.6 | 629.8 | 599.5 | 573.4 | 556.7 | 556.7 | 555.8 | 571.6 |
| 22.5° | 581.9 | 606.1 | 633.4 | 606.1 | 555.8 | 529.4 | 514.6 | 501.5 | 499.7 | 499.7 | 514.6 |
| 25° | 536.4 | 554.0 | 580.1 | 561.6 | 524.0 | 504.3 | 490.3 | 473.6 | 467.3 | 465.1 | 475.4 |
| 27.5° | 513.7 | 521.2 | 534.3 | 517.3 | 485.8 | 476.4 | 472.7 | 457.9 | 449.1 | 444.5 | 455.1 |
| 30° | 475.4 | 473.6 | 474.5 | 457.9 | 432.4 | 431.5 | 437.8 | 440.9 | 437.8 | 436.9 | 453.0 |
| 32.5° | 440.0 | 436.0 | 435.1 | 420.3 | 396.9 | 391.5 | 396.9 | 402.7 | 409.0 | 418.4 | 436.9 |
| 35° | 395.1 | 404.5 | 410.0 | 396.9 | 368.7 | 352.0 | 345.7 | 335.4 | 329.6 | 329.6 | 351.1 |
| 37.5° | 359.6 | 381.1 | 389.6 | 377.5 | 346.6 | 323.2 | 312.0 | 310.2 | 311.1 | 314.7 | 335.4 |
| 40° | 347.5 | 363.3 | 370.5 | 358.7 | 327.8 | 306.6 | 299.9 | 298.1 | 299.9 | 305.6 | 326.0 |
| 42.5° | 339.9 | 351.1 | 350.2 | 335.4 | 310.2 | 295.3 | 291.7 | 289.6 | 291.7 | 297.2 | 319.6 |
| 45° | 333.5 | 340.8 | 333.5 | 315.7 | 292.6 | 284.7 | 285.6 | 284.7 | 286.5 | 292.6 | 313.8 |
| 47.5° | 327.8 | 330.5 | 321.4 | 303.5 | 279.3 | 277.4 | 281.1 | 283.8 | 285.6 | 290.8 | 312.9 |
| 50° | 319.6 | 319.6 | 311.1 | 292.6 | 268.0 | 269.0 | 273.5 | 280.2 | 281.1 | 286.5 | 304.7 |
| 52.5° | 309.3 | 308.4 | 302.6 | 284.7 | 258.6 | 261.4 | 261.4 | 269.0 | 270.8 | 277.4 | 296.2 |
| 55° | 300.8 | 299.0 | 296.2 | 279.3 | 250.5 | 255.0 | 252.3 | 255.0 | 259.6 | 266.2 | 286.5 |
| 57.5° | 293.5 | 289.6 | 289.6 | 274.4 | 243.8 | 245.6 | 239.2 | 242.9 | 248.3 | 254.1 | 275.3 |
| 60° | 285.6 | 282.0 | 283.8 | 268.0 | 233.5 | 231.7 | 228.9 | 236.2 | 238.3 | 244.7 | 266.2 |
| 62.5° | 277.4 | 274.4 | 275.3 | 260.5 | 226.2 | 221.3 | 221.3 | 228.0 | 228.9 | 238.3 | 258.6 |
| 65° | 270.8 | 267.1 | 266.2 | 253.2 | 217.7 | 212.3 | 215.0 | 217.7 | 219.5 | 228.9 | 248.3 |
| 67.5° | 264.4 | 256.8 | 256.8 | 246.5 | 208.3 | 202.5 | 208.3 | 207.4 | 210.4 | 218.6 | 234.4 |
| 70° | 255.9 | 245.6 | 246.5 | 242.0 | 198.9 | 192.2 | 197.1 | 196.2 | 198.0 | 203.5 | 219.5 |
| 72.5° | 242.9 | 234.4 | 236.2 | 234.4 | 189.5 | 180.1 | 181.9 | 181.9 | 181.9 | 186.8 | 203.5 |
| 75° | 226.2 | 219.5 | 225.3 | 229.8 | 178.3 | 165.3 | 167.1 | 167.1 | 164.3 | 167.1 | 187.7 |
| 77.5° | 205.3 | 201.6 | 220.4 | 214.1 | 165.3 | 149.5 | 149.5 | 147.7 | 142.2 | 145.8 | 168.0 |
| 80° | 183.1 | 180.1 | 203.5 | 179.2 | 150.4 | 130.1 | 128.0 | 123.1 | 117.6 | 120.4 | 143.1 |
| 82.5° | 159.8 | 157.1 | 171.0 | 137.4 | 130.1 | 107.3 | 102.8 | 94.3 | 88.8 | 91.6 | 111.9 |
| 85° | 131.0 | 131.0 | 131.9 | 103.7 | 98.8 | 82.2 | 76.7 | 65.5 | 58.8 | 60.6 | 80.4 |
| 87.5° | 93.4 | 96.1 | 88.8 | 71.0 | 58.8 | 45.8 | 42.1 | 35.5 | 29.7 | 34.6 | 42.1 |
| 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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| 30° | 490.3 | 535.2 | 608.0 | 906.9 | 1659.8 | 3653.8 | 6335.7 | 7340.6 |
| 32.5° | 441.8 | 461.5 | 521.2 | 841.4 | 1578.6 | 3804.2 | 6782.1 | 7790.9 |
| 35° | 376.6 | 410.9 | 465.1 | 810.8 | 1580.4 | 3905.1 | 7268.7 | 8366.1 |
| 37.5° | 358.7 | 393.3 | 432.4 | 799.6 | 1601.9 | 4012.8 | 7827.3 | 9040.8 |
| 40° | 347.5 | 379.3 | 413.0 | 793.2 | 1622.5 | 4110.7 | 8374.9 | 9707.5 |
| 42.5° | 339.9 | 368.7 | 410.9 | 770.5 | 1632.8 | 4198.7 | 8824.9 | 10274.5 |
| 45° | 339.0 | 368.7 | 418.4 | 748.0 | 1648.6 | 4293.0 | 9202.4 | 10693.9 |
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| 57.5° | 325.0 | 340.8 | 328.7 | 459.7 | 1346.9 | 6105.9 | 12436.8 | 13716.4 |
| 60° | 364.2 | 298.1 | 319.6 | 422.1 | 1187.1 | 6205.7 | 12414.7 | 13970.5 |
| 62.5° | 337.2 | 279.3 | 307.5 | 413.9 | 1075.2 | 5925.5 | 11841.0 | 13833.4 |
| 65° | 264.4 | 267.1 | 295.3 | 437.8 | 1045.2 | 5183.2 | 10824.6 | 13199.1 |
| 67.5° | 242.0 | 255.0 | 282.9 | 469.1 | 1048.2 | 4149.8 | 9306.1 | 11817.3 |
| 70° | 228.0 | 242.0 | 269.0 | 484.8 | 1055.5 | 3093.7 | 7357.3 | 9625.4 |
| 72.5° | 212.3 | 224.4 | 253.2 | 487.6 | 1006.7 | 2247.1 | 5670.8 | 7077.4 |
| 75° | 193.1 | 204.4 | 230.7 | 424.8 | 834.2 | 1558.8 | 4337.8 | 4842.1 |
| 77.5° | 171.9 | 180.1 | 202.5 | 327.8 | 619.5 | 997.6 | 3256.0 | 3537.3 |
| 80° | 146.8 | 151.3 | 170.1 | 240.1 | 423.9 | 624.0 | 2576.1 | 2838.4 |
| 82.5° | 117.6 | 119.5 | 131.9 | 180.1 | 275.3 | 400.9 | 1725.3 | 1969.1 |
| 85° | 83.1 | 83.1 | 90.7 | 131.0 | 187.7 | 254.1 | 936.6 | 1038.8 |
| 87.5° | 39.1 | 40.0 | 40.0 | 71.9 | 97.9 | 129.2 | 215.9 | 132.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)