

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: P299355

Luminaire Tested: **GLNA-AF-04-LED-E1-SLR-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)  
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-SLR-8030  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Right OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17163.7 lumens  
Efficiency: N/A  
Efficacy: 76.3 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): 225  
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

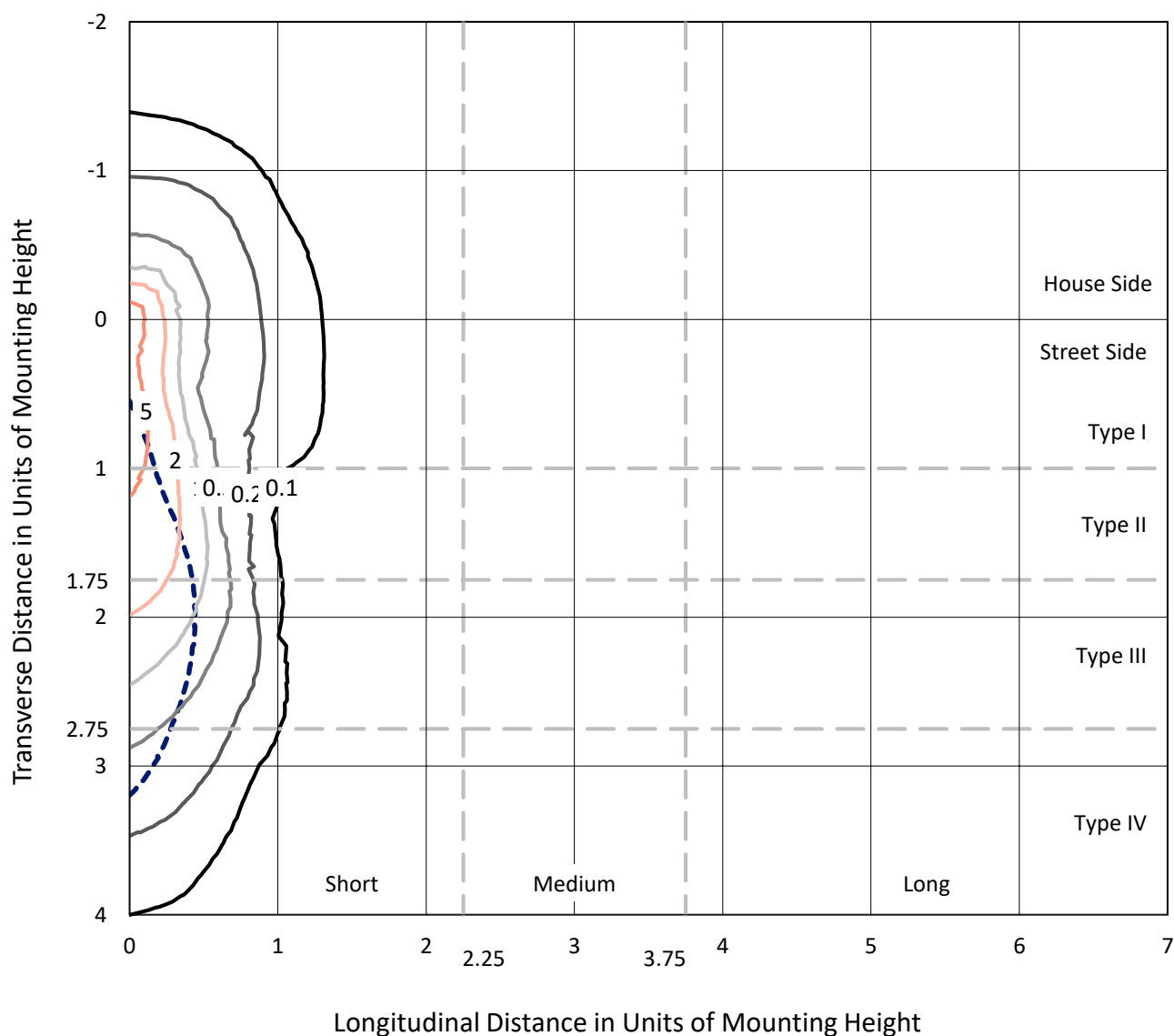


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

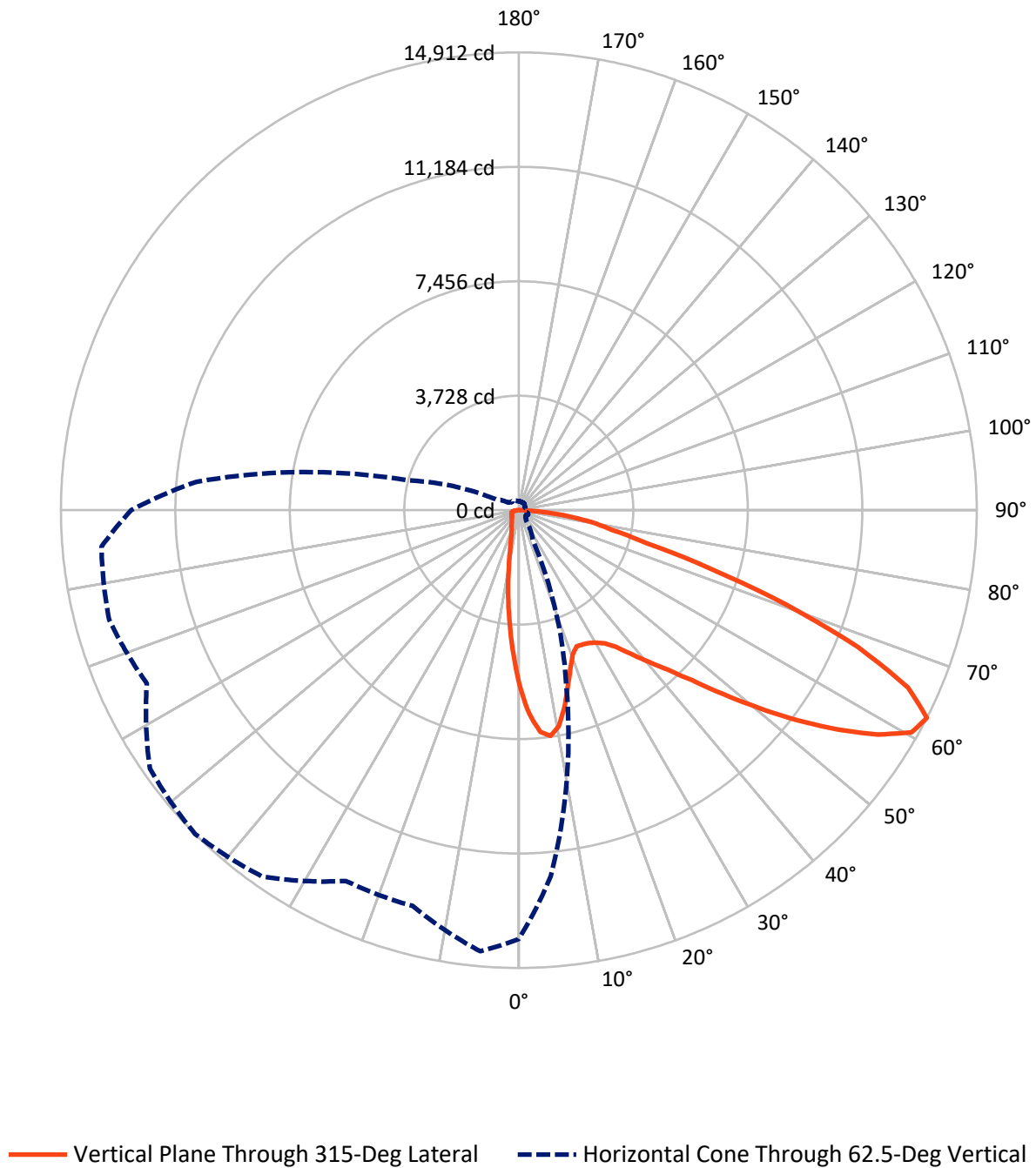


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2840.4   | 0.0    | 2840.4  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 14323.3  | 0.0    | 14323.3 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 17163.7  | 0.0    | 17163.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 422.1   | 2.5       |
| 10°-20°   | 774.1   | 4.5       |
| 20°-30°   | 1128.6  | 6.6       |
| 30°-40°   | 1738.2  | 10.1      |
| 40°-50°   | 2558.2  | 14.9      |
| 50°-60°   | 3752.3  | 21.9      |
| 60°-70°   | 4194.5  | 24.4      |
| 70°-80°   | 2053.6  | 12.0      |
| 80°-90°   | 542.2   | 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°    | 17163.7 | 100.0     |
| 0°-180°   | 17163.7 | 100.0     |

**Coefficient of Utilization**



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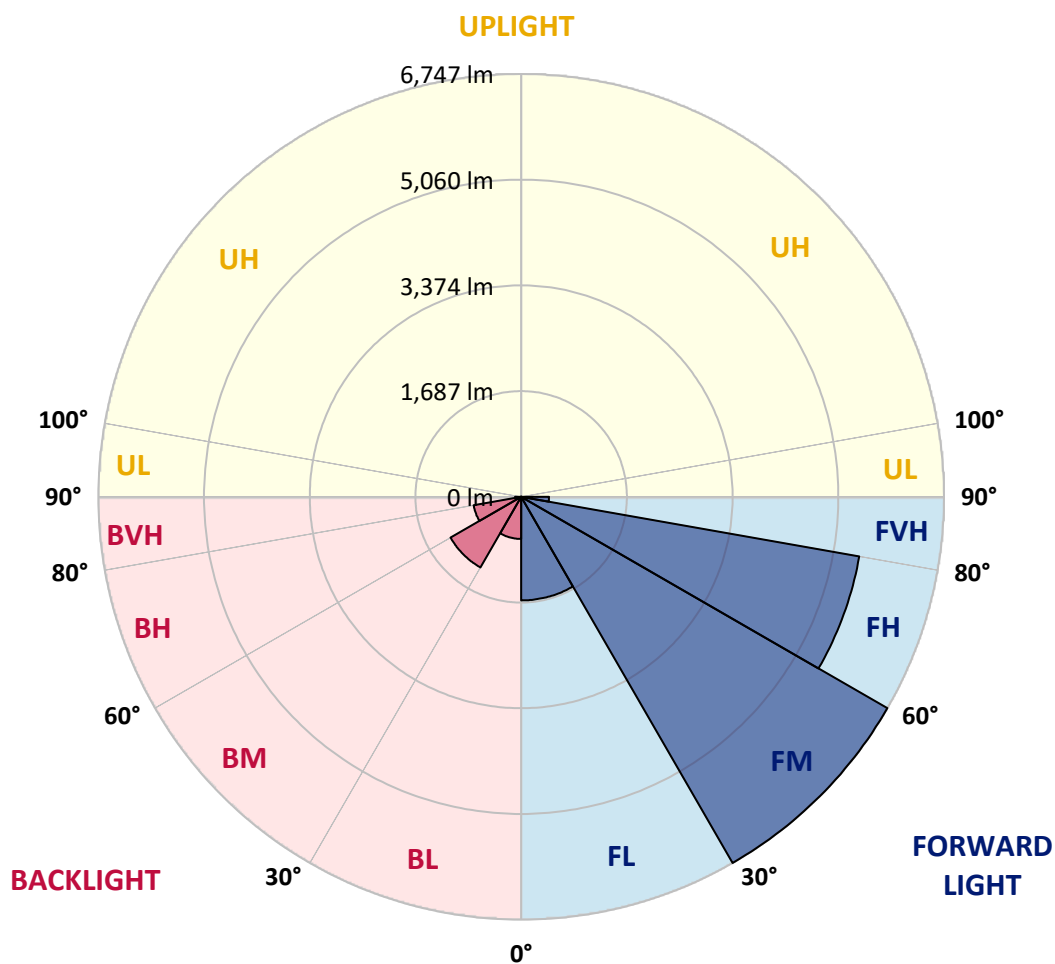
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1652.8 | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 6747.2 | 39.3      |                         |      |         |
| FH   | (60°-80°)   | 5478.1 | 31.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 445.3  | 2.6       |                         |      | G3/500  |
| BL   | (0°-30°)    | 672.0  | 3.9       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1301.4 | 7.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 770.0  | 4.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 96.9   | 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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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5798.9  | 5798.9  | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 |
| 2.5°  | 6025.1  | 5902.6  | 5698.7 | 5486.4 | 5357.3 | 5206.2 | 5088.3 | 4984.6 | 4776.9 | 4736.4 | 4773.2 |
| 5°    | 5665.8  | 5419.6  | 5035.4 | 4648.7 | 4391.0 | 4114.5 | 3899.5 | 3726.9 | 3463.6 | 3417.3 | 3473.0 |
| 7.5°  | 5089.4  | 4794.9  | 4287.3 | 3793.8 | 3429.6 | 3084.3 | 2852.3 | 2667.2 | 2461.6 | 2373.0 | 2378.5 |
| 10°   | 4592.1  | 4259.9  | 3659.8 | 3123.1 | 2824.9 | 2591.8 | 2396.5 | 2206.8 | 1998.3 | 1861.5 | 1823.8 |
| 12.5° | 4313.6  | 3931.7  | 3239.9 | 2760.6 | 2484.1 | 2239.1 | 2028.6 | 1825.8 | 1603.0 | 1463.3 | 1423.9 |
| 15°   | 4265.6  | 3850.3  | 3082.5 | 2528.7 | 2182.2 | 1872.0 | 1623.8 | 1397.3 | 1168.0 | 1054.8 | 1031.1 |
| 17.5° | 4474.2  | 3995.7  | 3031.4 | 2321.9 | 1898.3 | 1515.3 | 1210.5 | 957.7  | 770.9  | 714.4  | 709.5  |
| 20°   | 4874.0  | 4275.1  | 3024.9 | 2127.7 | 1618.1 | 1169.1 | 843.5  | 659.5  | 577.5  | 561.3  | 562.4  |
| 22.5° | 5435.6  | 4708.1  | 3106.0 | 1981.4 | 1360.5 | 871.8  | 634.1  | 551.8  | 519.9  | 504.7  | 504.7  |
| 25°   | 6162.0  | 5304.5  | 3292.8 | 1874.9 | 1136.8 | 696.4  | 559.6  | 510.4  | 480.1  | 469.9  | 471.9  |
| 27.5° | 6866.0  | 5884.6  | 3509.9 | 1790.9 | 990.6  | 632.1  | 530.1  | 485.9  | 459.6  | 449.0  | 453.9  |
| 30°   | 7415.0  | 6399.9  | 3690.9 | 1676.7 | 916.0  | 614.1  | 540.7  | 495.3  | 457.6  | 441.6  | 442.4  |
| 32.5° | 7869.8  | 6850.9  | 3842.9 | 1594.4 | 850.0  | 526.4  | 466.2  | 446.2  | 441.6  | 422.7  | 413.3  |
| 35°   | 8451.0  | 7342.5  | 3944.9 | 1596.4 | 818.9  | 469.9  | 415.0  | 380.2  | 354.8  | 333.0  | 333.0  |
| 37.5° | 9132.3  | 7906.6  | 4053.4 | 1618.1 | 807.8  | 436.7  | 397.3  | 362.2  | 338.8  | 317.9  | 314.2  |
| 40°   | 9805.8  | 8459.6  | 4152.5 | 1639.0 | 800.9  | 417.0  | 383.0  | 351.0  | 329.3  | 308.5  | 302.8  |
| 42.5° | 10378.8 | 8914.3  | 4241.1 | 1649.2 | 778.3  | 415.0  | 372.8  | 343.3  | 322.8  | 299.9  | 294.5  |
| 45°   | 10802.3 | 9295.3  | 4336.5 | 1665.2 | 755.8  | 422.7  | 372.8  | 342.5  | 317.1  | 295.3  | 289.6  |
| 47.5° | 11180.5 | 9742.6  | 4495.9 | 1665.2 | 728.4  | 408.5  | 385.0  | 343.3  | 316.2  | 293.3  | 288.8  |
| 50°   | 11687.2 | 10355.9 | 4797.8 | 1626.7 | 689.8  | 393.3  | 405.6  | 339.6  | 307.6  | 289.6  | 283.9  |
| 52.5° | 12385.3 | 11142.0 | 5277.1 | 1559.6 | 630.4  | 364.2  | 402.7  | 337.9  | 299.1  | 280.2  | 273.6  |
| 55°   | 13211.1 | 11983.4 | 5799.8 | 1481.3 | 541.6  | 343.3  | 388.7  | 333.0  | 289.6  | 268.8  | 262.2  |
| 57.5° | 13855.5 | 12562.7 | 6167.7 | 1360.5 | 464.2  | 332.2  | 344.5  | 328.5  | 278.2  | 256.5  | 251.1  |
| 60°   | 14112.0 | 12540.1 | 6268.8 | 1199.1 | 426.4  | 322.8  | 301.1  | 367.9  | 268.8  | 247.1  | 240.5  |
| 62.5° | 13973.4 | 11960.9 | 5985.7 | 1086.0 | 417.9  | 310.5  | 282.2  | 340.5  | 261.4  | 240.5  | 231.1  |
| 65°   | 13332.8 | 10934.3 | 5235.6 | 1055.7 | 442.4  | 298.2  | 269.9  | 267.1  | 251.1  | 231.1  | 221.7  |
| 67.5° | 11937.2 | 9400.2  | 4191.9 | 1058.6 | 473.6  | 285.9  | 257.6  | 244.5  | 236.8  | 220.8  | 212.2  |
| 70°   | 9722.9  | 7432.2  | 3124.8 | 1066.3 | 489.6  | 271.6  | 244.5  | 230.2  | 221.7  | 205.7  | 199.9  |
| 72.5° | 7149.1  | 5728.1  | 2270.2 | 1017.1 | 492.4  | 255.6  | 226.5  | 214.2  | 205.7  | 188.8  | 183.9  |
| 75°   | 4891.2  | 4381.6  | 1574.7 | 842.6  | 429.3  | 233.1  | 206.5  | 195.4  | 189.7  | 168.8  | 166.0  |
| 77.5° | 3573.0  | 3289.1  | 1007.7 | 625.5  | 331.0  | 204.8  | 182.2  | 173.7  | 170.0  | 147.1  | 143.4  |
| 80°   | 2867.5  | 2602.1  | 630.4  | 428.4  | 242.5  | 171.7  | 152.8  | 148.2  | 144.2  | 121.7  | 118.8  |
| 82.5° | 1988.9  | 1742.6  | 404.7  | 278.2  | 182.2  | 133.1  | 120.8  | 118.8  | 113.1  | 92.5   | 89.7   |
| 85°   | 1049.1  | 946.3   | 256.5  | 189.7  | 132.0  | 91.4   | 84.0   | 84.0   | 81.1   | 61.4   | 59.4   |
| 87.5° | 134.0   | 217.9   | 130.2  | 99.1   | 72.6   | 40.6   | 40.6   | 39.7   | 42.6   | 34.8   | 30.3   |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 |
| 2.5°  | 4686.4 | 4731.8 | 4688.4 | 4691.2 | 4739.2 | 4882.6 | 4947.7 | 5001.4 | 5059.1 | 5096.8 | 5113.7 |
| 5°    | 3396.7 | 3502.4 | 3538.1 | 3613.5 | 3724.9 | 3908.0 | 3980.6 | 4033.4 | 4068.6 | 4089.1 | 4097.7 |
| 7.5°  | 2323.1 | 2387.0 | 2458.7 | 2580.4 | 2822.9 | 2930.6 | 2978.6 | 2966.3 | 2926.9 | 2912.6 | 2898.6 |
| 10°   | 1751.2 | 1725.8 | 1712.4 | 1779.5 | 1975.7 | 2084.3 | 2118.3 | 2085.1 | 2063.4 | 2068.3 | 2091.7 |
| 12.5° | 1356.8 | 1312.5 | 1258.8 | 1251.1 | 1380.5 | 1477.6 | 1499.3 | 1501.0 | 1540.7 | 1575.6 | 1627.5 |
| 15°   | 988.9  | 984.0  | 957.7  | 941.7  | 1015.1 | 1094.5 | 1104.0 | 1120.8 | 1156.8 | 1182.2 | 1227.4 |
| 17.5° | 697.2  | 722.7  | 743.5  | 753.8  | 809.5  | 866.0  | 855.8  | 847.2  | 840.6  | 840.6  | 862.3  |
| 20°   | 562.4  | 579.3  | 605.8  | 635.8  | 692.7  | 732.1  | 706.7  | 672.7  | 648.1  | 640.7  | 643.5  |
| 22.5° | 506.7  | 519.9  | 535.0  | 561.3  | 612.4  | 639.8  | 612.4  | 587.8  | 563.3  | 554.7  | 551.8  |
| 25°   | 478.4  | 495.3  | 509.6  | 529.3  | 567.0  | 585.8  | 559.6  | 541.6  | 526.4  | 516.1  | 508.4  |
| 27.5° | 462.4  | 477.3  | 481.3  | 490.7  | 522.7  | 539.6  | 526.4  | 519.0  | 509.6  | 500.1  | 490.7  |
| 30°   | 445.3  | 442.4  | 435.9  | 436.7  | 462.4  | 479.3  | 478.4  | 480.1  | 479.3  | 476.4  | 474.7  |
| 32.5° | 406.7  | 401.0  | 395.3  | 401.0  | 424.5  | 439.6  | 440.7  | 444.4  | 444.4  | 443.6  | 451.0  |
| 35°   | 338.8  | 349.0  | 355.6  | 372.8  | 401.0  | 414.2  | 408.5  | 399.0  | 382.2  | 371.6  | 370.8  |
| 37.5° | 313.3  | 315.1  | 326.5  | 349.9  | 381.3  | 393.3  | 385.0  | 363.3  | 351.9  | 349.9  | 352.8  |
| 40°   | 301.1  | 302.8  | 309.3  | 331.0  | 362.2  | 374.5  | 367.0  | 351.0  | 340.5  | 339.6  | 344.5  |
| 42.5° | 292.5  | 294.5  | 298.2  | 313.3  | 338.8  | 353.9  | 354.8  | 343.3  | 331.0  | 332.2  | 336.8  |
| 45°   | 287.6  | 288.8  | 287.6  | 295.3  | 318.8  | 336.8  | 344.5  | 336.8  | 326.5  | 328.5  | 333.9  |
| 47.5° | 286.8  | 283.9  | 280.2  | 282.2  | 306.8  | 324.5  | 333.9  | 331.0  | 326.5  | 328.5  | 333.0  |
| 50°   | 283.1  | 276.5  | 271.6  | 270.8  | 295.3  | 314.2  | 322.8  | 322.8  | 324.5  | 328.5  | 333.0  |
| 52.5° | 271.6  | 264.2  | 264.2  | 261.4  | 287.6  | 305.6  | 311.3  | 312.2  | 315.1  | 321.6  | 328.5  |
| 55°   | 257.6  | 254.8  | 257.6  | 252.8  | 282.2  | 299.1  | 301.9  | 303.9  | 305.6  | 311.3  | 320.8  |
| 57.5° | 245.4  | 241.6  | 248.2  | 246.2  | 277.3  | 292.5  | 292.5  | 296.2  | 296.2  | 303.9  | 311.3  |
| 60°   | 238.8  | 231.1  | 233.9  | 235.9  | 270.8  | 286.8  | 285.1  | 288.8  | 290.5  | 297.3  | 302.8  |
| 62.5° | 230.2  | 223.7  | 223.7  | 228.2  | 263.4  | 278.2  | 277.3  | 280.2  | 287.6  | 289.6  | 295.3  |
| 65°   | 219.9  | 217.1  | 214.2  | 219.9  | 255.6  | 268.8  | 269.9  | 273.6  | 280.2  | 282.2  | 286.8  |
| 67.5° | 209.4  | 210.5  | 204.8  | 210.5  | 249.1  | 259.4  | 259.4  | 267.1  | 269.9  | 273.6  | 278.2  |
| 70°   | 198.2  | 199.1  | 194.2  | 201.1  | 244.5  | 249.1  | 248.2  | 258.5  | 260.5  | 263.4  | 267.9  |
| 72.5° | 183.9  | 183.9  | 182.2  | 191.7  | 236.8  | 238.8  | 236.8  | 245.4  | 246.2  | 249.1  | 251.1  |
| 75°   | 168.8  | 168.8  | 167.1  | 180.2  | 232.2  | 227.4  | 221.7  | 228.2  | 230.2  | 232.2  | 232.2  |
| 77.5° | 149.1  | 151.1  | 151.1  | 167.1  | 215.9  | 222.8  | 203.7  | 207.7  | 210.5  | 211.4  | 208.5  |
| 80°   | 124.5  | 129.4  | 131.1  | 152.0  | 181.1  | 205.7  | 182.2  | 184.8  | 185.9  | 185.9  | 182.2  |
| 82.5° | 95.4   | 103.7  | 108.5  | 131.1  | 138.8  | 172.5  | 158.5  | 161.4  | 158.5  | 152.8  | 151.1  |
| 85°   | 66.0   | 77.4   | 83.1   | 100.0  | 104.8  | 133.1  | 132.0  | 132.0  | 126.5  | 118.8  | 118.0  |
| 87.5° | 36.0   | 42.6   | 46.3   | 59.4   | 71.7   | 89.7   | 97.1   | 94.3   | 89.7   | 84.8   | 86.0   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°    | 270°    | 275°    | 285°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9  | 5798.9  | 5798.9  | 5798.9  |
| 2.5°  | 5202.5 | 5330.8 | 5535.6 | 5692.1 | 5849.8 | 6001.7 | 6166.0 | 6291.3  | 6397.9  | 6439.6  | 6565.8  |
| 5°    | 4183.7 | 4343.9 | 4537.3 | 4886.3 | 5133.7 | 5406.2 | 5721.5 | 6138.5  | 6298.8  | 6520.7  | 6883.8  |
| 7.5°  | 2958.0 | 3103.1 | 3414.5 | 3696.7 | 4046.8 | 4432.7 | 4858.0 | 5433.6  | 5644.1  | 5999.7  | 6591.3  |
| 10°   | 2208.8 | 2377.6 | 2627.5 | 2865.5 | 3174.0 | 3568.4 | 4057.1 | 4700.7  | 4956.3  | 5342.2  | 6023.4  |
| 12.5° | 1779.5 | 1978.6 | 2243.6 | 2467.3 | 2706.1 | 2984.3 | 3459.0 | 4164.5  | 4507.3  | 4844.9  | 5533.6  |
| 15°   | 1367.0 | 1575.6 | 1822.1 | 2106.0 | 2369.0 | 2669.2 | 3166.5 | 3938.3  | 4332.5  | 4684.7  | 5272.2  |
| 17.5° | 946.3  | 1124.5 | 1435.0 | 1731.2 | 2068.3 | 2452.2 | 3085.4 | 3986.3  | 4457.0  | 4862.9  | 5317.6  |
| 20°   | 671.0  | 772.6  | 1027.4 | 1371.0 | 1790.9 | 2272.8 | 3070.3 | 4239.1  | 4851.5  | 5314.8  | 5608.1  |
| 22.5° | 564.1  | 601.8  | 750.1  | 1065.1 | 1550.1 | 2138.8 | 3123.1 | 4593.8  | 5383.6  | 5975.2  | 6071.4  |
| 25°   | 514.1  | 537.0  | 614.1  | 836.0  | 1335.9 | 2041.7 | 3301.3 | 5122.3  | 6042.3  | 6635.8  | 6618.7  |
| 27.5° | 486.7  | 510.4  | 561.3  | 705.8  | 1174.8 | 1981.4 | 3479.6 | 5748.9  | 6795.2  | 7352.8  | 7141.4  |
| 30°   | 478.4  | 510.4  | 564.1  | 665.2  | 1059.7 | 1886.0 | 3625.8 | 6298.8  | 7374.5  | 7836.9  | 7379.3  |
| 32.5° | 471.9  | 476.4  | 501.0  | 573.6  | 950.0  | 1774.6 | 3724.9 | 6792.3  | 7941.4  | 8297.3  | 7721.8  |
| 35°   | 381.3  | 404.7  | 444.4  | 514.1  | 886.0  | 1707.8 | 3724.9 | 7217.9  | 8500.1  | 8762.4  | 8048.3  |
| 37.5° | 367.0  | 387.9  | 422.7  | 482.1  | 850.0  | 1674.7 | 3650.4 | 7628.4  | 9070.8  | 9289.9  | 8317.1  |
| 40°   | 359.6  | 376.5  | 409.6  | 457.6  | 834.9  | 1637.0 | 3541.8 | 7990.6  | 9628.4  | 9818.1  | 8568.1  |
| 42.5° | 353.9  | 369.0  | 400.2  | 442.4  | 815.2  | 1595.5 | 3454.2 | 8281.1  | 10112.5 | 10269.1 | 8807.8  |
| 45°   | 351.0  | 367.0  | 401.0  | 450.2  | 775.5  | 1540.7 | 3425.0 | 8595.3  | 10510.7 | 10645.5 | 9067.1  |
| 47.5° | 351.0  | 369.9  | 405.6  | 466.2  | 728.4  | 1484.1 | 3516.4 | 9009.7  | 10887.2 | 10953.2 | 9372.8  |
| 50°   | 348.2  | 369.0  | 419.0  | 450.2  | 659.5  | 1412.5 | 3731.5 | 9531.3  | 11294.8 | 11302.2 | 9759.8  |
| 52.5° | 342.5  | 367.0  | 451.0  | 440.7  | 580.1  | 1318.2 | 4022.3 | 10201.4 | 11897.7 | 11942.9 | 10365.3 |
| 55°   | 335.9  | 364.2  | 442.4  | 419.0  | 515.3  | 1205.9 | 4259.9 | 11015.4 | 12744.9 | 12870.3 | 11256.2 |
| 57.5° | 327.3  | 360.5  | 428.4  | 388.7  | 472.7  | 1061.4 | 4345.9 | 11611.8 | 13336.5 | 13651.5 | 12259.9 |
| 60°   | 319.9  | 357.6  | 386.7  | 370.8  | 446.2  | 939.7  | 4179.7 | 11493.9 | 13295.9 | 13975.2 | 13149.7 |
| 62.5° | 312.2  | 360.5  | 352.8  | 359.6  | 433.9  | 861.5  | 3745.8 | 10549.3 | 12623.3 | 13641.3 | 13809.2 |
| 65°   | 303.9  | 335.0  | 333.0  | 349.9  | 431.3  | 830.3  | 3105.1 | 9133.1  | 11323.1 | 12585.6 | 13964.9 |
| 67.5° | 292.5  | 309.3  | 318.8  | 337.9  | 440.7  | 802.9  | 2505.9 | 7533.9  | 9516.1  | 11003.1 | 13153.4 |
| 70°   | 280.2  | 294.5  | 304.8  | 322.8  | 435.0  | 790.6  | 2084.3 | 5941.2  | 7551.0  | 9018.0  | 11552.4 |
| 72.5° | 264.2  | 276.5  | 285.9  | 302.8  | 429.3  | 784.1  | 1760.6 | 4784.6  | 5637.5  | 6698.9  | 9392.7  |
| 75°   | 245.4  | 256.5  | 263.4  | 280.2  | 411.3  | 718.1  | 1384.2 | 4048.6  | 4218.5  | 4660.1  | 7481.0  |
| 77.5° | 223.7  | 232.2  | 237.6  | 256.5  | 364.2  | 597.3  | 1001.1 | 3123.1  | 3275.9  | 3383.3  | 5735.5  |
| 80°   | 198.2  | 206.5  | 209.4  | 227.4  | 301.9  | 467.0  | 653.0  | 2306.8  | 2450.2  | 2474.7  | 3745.8  |
| 82.5° | 168.8  | 177.4  | 177.4  | 194.2  | 247.1  | 335.9  | 428.4  | 1580.4  | 1608.7  | 1691.8  | 2647.5  |
| 85°   | 136.0  | 142.5  | 142.5  | 151.1  | 191.7  | 251.1  | 294.5  | 793.5   | 784.9   | 896.3   | 2293.6  |
| 87.5° | 97.1   | 102.0  | 106.5  | 108.5  | 136.8  | 166.0  | 177.4  | 241.6   | 159.4   | 183.1   | 1472.7  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P299355

CATALOG NUMBER: GLNA-AF-04-LED-E1-SLR-8030

**CANDELA DISTRIBUTION (continued):**

|       | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5798.9  | 5798.9  | 5798.9  | 5798.9  | 5798.9  | 5798.9  | 5798.9  | 5798.9  |
| 2.5°  | 6661.2  | 6714.9  | 6660.1  | 6620.7  | 6449.9  | 6309.3  | 6121.4  | 6025.1  |
| 5°    | 7160.2  | 7297.1  | 7250.8  | 7084.8  | 6728.1  | 6327.1  | 5871.5  | 5665.8  |
| 7.5°  | 7100.0  | 7417.9  | 7425.3  | 7115.1  | 6589.5  | 5998.9  | 5381.9  | 5089.4  |
| 10°   | 6630.1  | 7036.6  | 7152.8  | 6851.8  | 6294.2  | 5633.8  | 4926.0  | 4592.1  |
| 12.5° | 6105.4  | 6503.6  | 6592.4  | 6488.4  | 6022.6  | 5359.0  | 4641.2  | 4313.6  |
| 15°   | 5676.1  | 5854.6  | 5960.0  | 6050.8  | 5789.5  | 5249.6  | 4625.0  | 4265.6  |
| 17.5° | 5414.7  | 5395.0  | 5425.3  | 5582.7  | 5627.0  | 5375.0  | 4870.3  | 4474.2  |
| 20°   | 5320.5  | 5017.7  | 5010.0  | 5227.1  | 5550.7  | 5674.4  | 5349.6  | 4874.0  |
| 22.5° | 5372.5  | 4881.8  | 4819.5  | 5077.1  | 5591.3  | 6105.4  | 5978.0  | 5435.6  |
| 25°   | 5551.6  | 4893.2  | 4842.9  | 5092.3  | 5738.4  | 6565.0  | 6656.4  | 6162.0  |
| 27.5° | 5833.8  | 4964.9  | 4898.6  | 5154.5  | 5933.7  | 6950.9  | 7324.5  | 6866.0  |
| 30°   | 6101.7  | 5089.4  | 5007.1  | 5277.1  | 6112.0  | 7103.7  | 7734.1  | 7415.0  |
| 32.5° | 6427.3  | 5322.5  | 5178.0  | 5502.4  | 6332.8  | 7347.0  | 8099.1  | 7869.8  |
| 35°   | 6746.1  | 5654.4  | 5475.3  | 5850.6  | 6579.0  | 7650.1  | 8516.1  | 8451.0  |
| 37.5° | 7096.3  | 6088.5  | 5940.3  | 6300.8  | 6916.0  | 7935.7  | 9048.3  | 9132.3  |
| 40°   | 7469.9  | 6664.1  | 6488.4  | 6957.4  | 7438.7  | 8294.5  | 9604.1  | 9805.8  |
| 42.5° | 7846.3  | 7302.8  | 7093.4  | 7568.7  | 8013.1  | 8648.1  | 10079.4 | 10378.8 |
| 45°   | 8277.4  | 7996.3  | 7897.2  | 8411.3  | 8565.3  | 8985.2  | 10430.5 | 10802.3 |
| 47.5° | 8779.5  | 8783.2  | 8942.6  | 9148.2  | 9122.0  | 9366.2  | 10783.5 | 11180.5 |
| 50°   | 9365.3  | 9765.2  | 10117.4 | 10253.9 | 9695.5  | 9775.8  | 11273.1 | 11687.2 |
| 52.5° | 10069.1 | 10940.0 | 11375.9 | 11286.2 | 10313.6 | 10275.6 | 12048.6 | 12385.3 |
| 55°   | 10949.4 | 12183.7 | 12616.7 | 12552.4 | 11024.0 | 10956.9 | 13014.9 | 13211.1 |
| 57.5° | 11968.3 | 13388.5 | 13786.6 | 13497.9 | 11876.9 | 11704.4 | 13814.1 | 13855.5 |
| 60°   | 12863.8 | 14343.3 | 14692.4 | 14372.5 | 12737.5 | 12499.6 | 14313.1 | 14112.0 |
| 62.5° | 13361.9 | 14667.0 | 14912.3 | 14567.8 | 13327.1 | 13346.8 | 14422.5 | 13973.4 |
| 65°   | 13139.4 | 13848.9 | 13928.0 | 13899.7 | 13175.1 | 13838.3 | 14029.1 | 13332.8 |
| 67.5° | 11920.3 | 11780.6 | 11913.7 | 12097.7 | 11873.2 | 13191.1 | 12939.2 | 11937.2 |
| 70°   | 9772.9  | 9005.7  | 9271.1  | 9394.5  | 9496.4  | 11351.3 | 11230.5 | 9722.9  |
| 72.5° | 7365.0  | 6309.3  | 6518.7  | 6493.3  | 6964.9  | 9104.8  | 8734.1  | 7149.1  |
| 75°   | 5218.5  | 4277.9  | 4304.2  | 4293.9  | 4860.0  | 7123.4  | 6324.5  | 4891.2  |
| 77.5° | 3651.2  | 3099.4  | 3113.7  | 3172.0  | 3267.4  | 5372.5  | 4518.4  | 3573.0  |
| 80°   | 2510.7  | 2352.2  | 2430.4  | 2435.3  | 2264.5  | 3609.0  | 3338.2  | 2867.5  |
| 82.5° | 1870.0  | 1635.0  | 1616.1  | 1643.5  | 1774.6  | 2924.0  | 2565.3  | 1988.9  |
| 85°   | 1531.3  | 968.0   | 778.3   | 975.7   | 1572.7  | 2895.7  | 1704.1  | 1049.1  |
| 87.5° | 862.3   | 459.6   | 207.7   | 385.0   | 627.5   | 1917.2  | 492.4   | 134.0   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)