

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: P299359

Luminaire Tested: **GLNA-AF-05-LED-E1-SLR-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299359
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-05-LED-E1-SLR-7027
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K 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: 22641.3 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

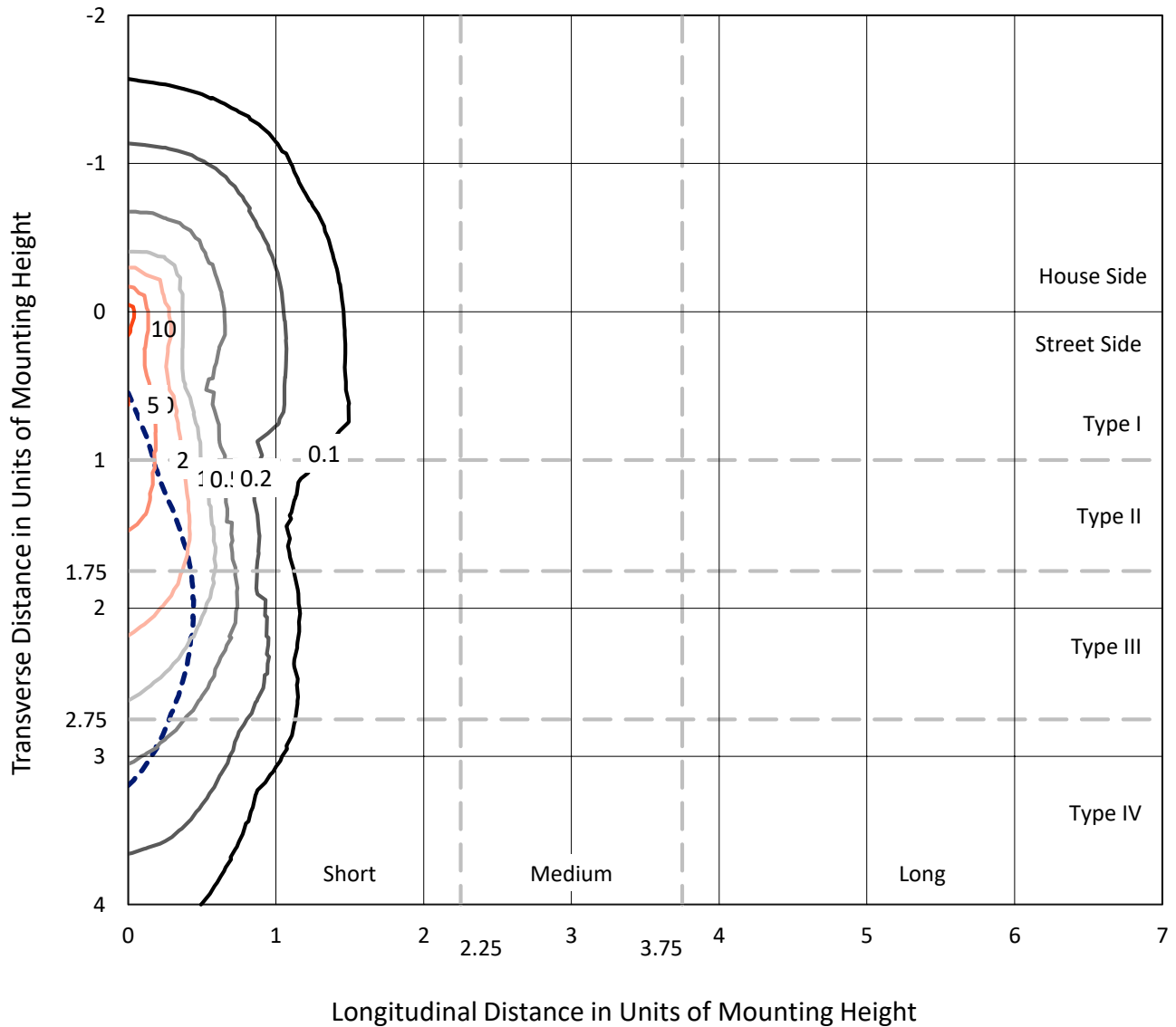
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

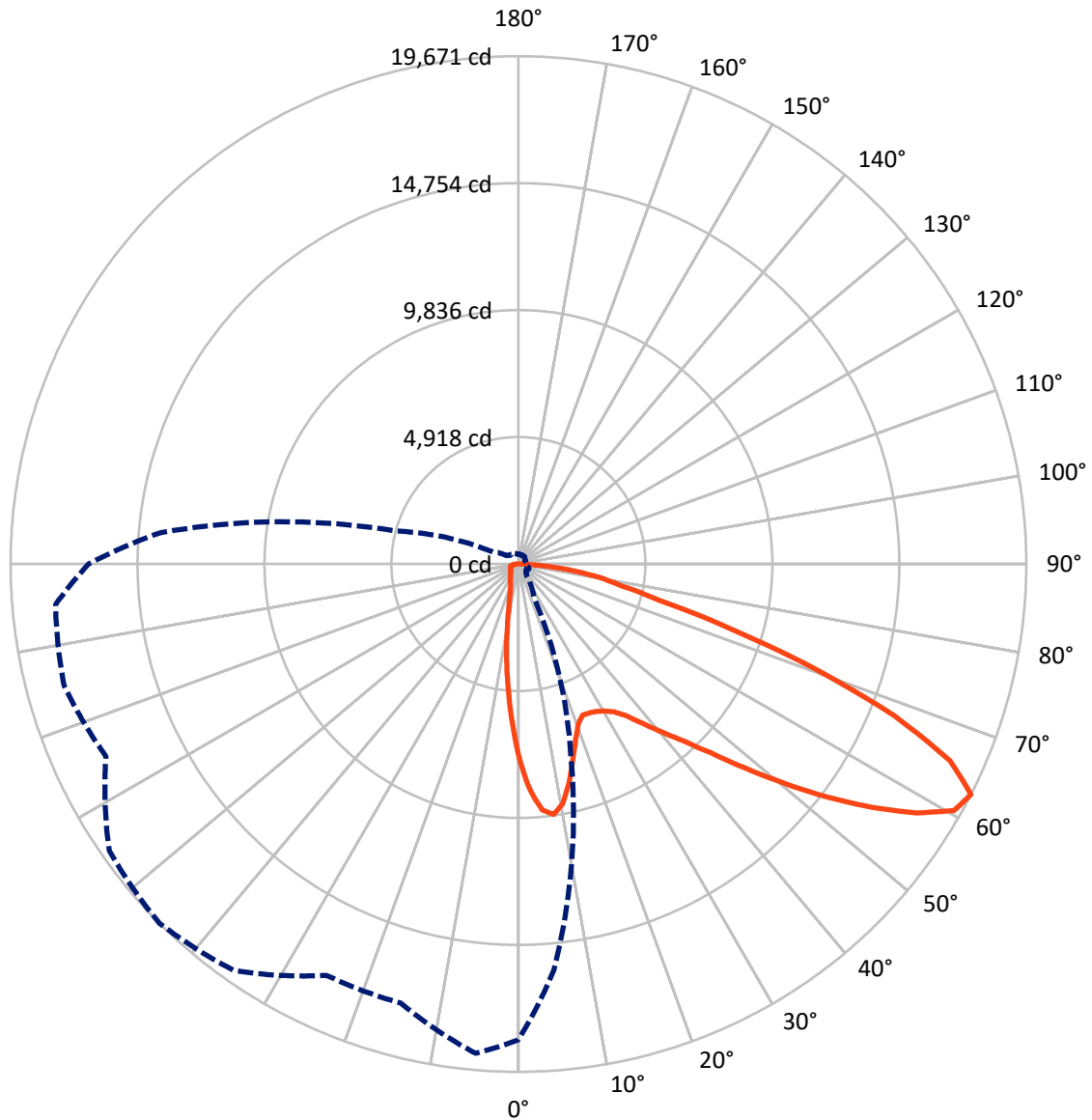
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3746.8 | 0.0 | 3746.8 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 18894.5 | 0.0 | 18894.5 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 22641.3 | 0.0 | 22641.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 556.8 | 2.5 |
| 10°-20° | 1021.1 | 4.5 |
| 20°-30° | 1488.8 | 6.6 |
| 30°-40° | 2292.9 | 10.1 |
| 40°-50° | 3374.6 | 14.9 |
| 50°-60° | 4949.8 | 21.9 |
| 60°-70° | 5533.1 | 24.4 |
| 70°-80° | 2709.0 | 12.0 |
| 80°-90° | 715.2 | 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° | 22641.3 | 100.0 |
| 0°-180° | 22641.3 | 100.0 |

Coefficient of Utilization



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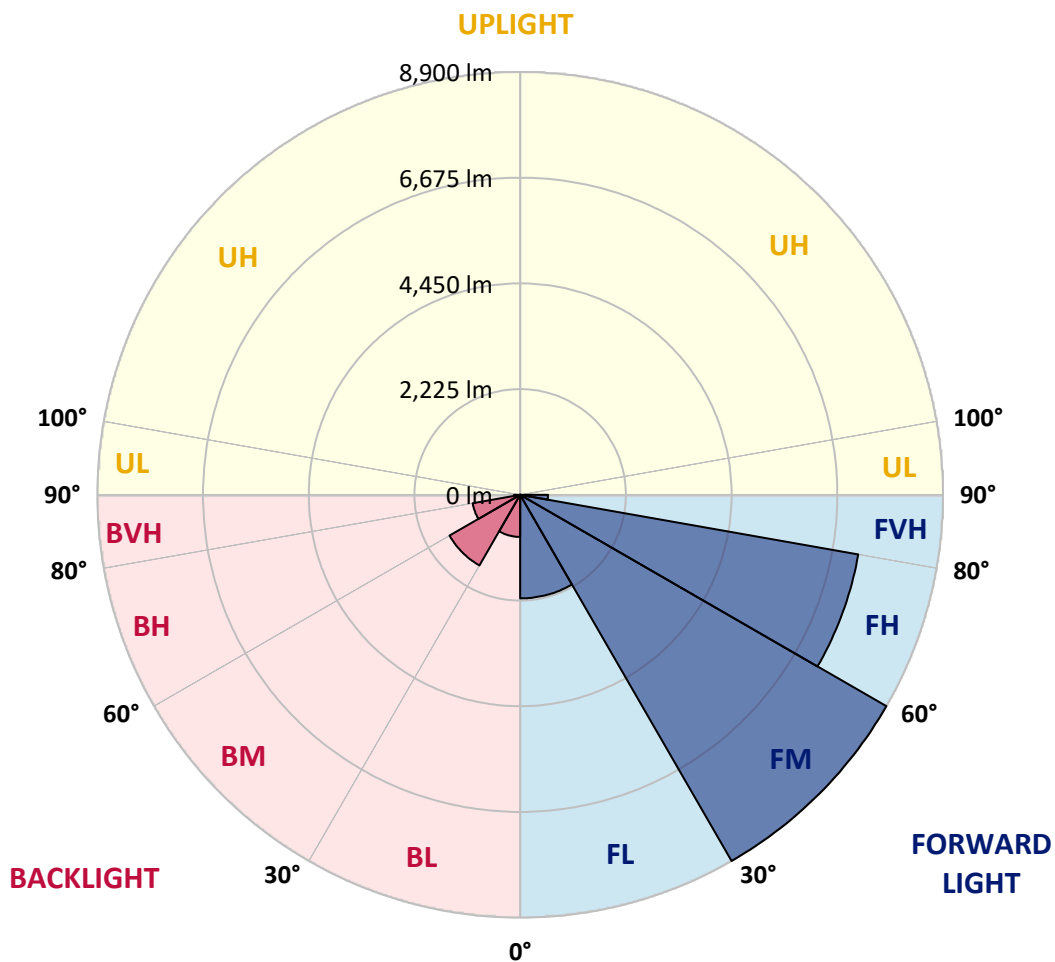
CATALOG NUMBER: GLNA-AF-05-LED-E1-SLR-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2180.3 | 9.6 | | | |
| FM | (30°-60°) | 8900.5 | 39.3 | | | |
| FH | (60°-80°) | 7226.3 | 31.9 | | | G3/7500 |
| FVH | (80°-90°) | 587.4 | 2.6 | | | G4/750 |
| BL | (0°-30°) | 886.4 | 3.9 | B2/1000 | | |
| BM | (30°-60°) | 1716.8 | 7.6 | B2/2500 | | |
| BH | (60°-80°) | 1015.8 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 127.9 | 0.6 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 |
| 2.5° | 7948.0 | 7786.4 | 7517.3 | 7237.4 | 7067.1 | 6867.7 | 6712.1 | 6575.4 | 6301.4 | 6247.9 | 6296.5 |
| 5° | 7474.0 | 7149.2 | 6642.4 | 6132.3 | 5792.4 | 5427.7 | 5143.9 | 4916.4 | 4569.0 | 4507.9 | 4581.4 |
| 7.5° | 6713.6 | 6325.2 | 5655.6 | 5004.5 | 4524.1 | 4068.6 | 3762.6 | 3518.5 | 3247.2 | 3130.4 | 3137.5 |
| 10° | 6057.6 | 5619.4 | 4827.8 | 4119.8 | 3726.4 | 3419.0 | 3161.3 | 2911.1 | 2636.0 | 2455.5 | 2405.8 |
| 12.5° | 5690.3 | 5186.5 | 4273.9 | 3641.7 | 3276.9 | 2953.7 | 2676.0 | 2408.4 | 2114.5 | 1930.3 | 1878.3 |
| 15° | 5627.0 | 5079.1 | 4066.3 | 3335.7 | 2878.7 | 2469.5 | 2142.0 | 1843.3 | 1540.7 | 1391.5 | 1360.2 |
| 17.5° | 5902.0 | 5270.9 | 3998.9 | 3062.9 | 2504.1 | 1998.9 | 1596.8 | 1263.4 | 1017.0 | 942.4 | 935.9 |
| 20° | 6429.5 | 5639.4 | 3990.2 | 2806.7 | 2134.5 | 1542.2 | 1112.7 | 870.0 | 761.9 | 740.4 | 741.9 |
| 22.5° | 7170.3 | 6210.6 | 4097.2 | 2613.8 | 1794.6 | 1150.0 | 836.5 | 728.0 | 685.8 | 665.8 | 665.8 |
| 25° | 8128.5 | 6997.4 | 4343.6 | 2473.2 | 1499.6 | 918.6 | 738.1 | 673.3 | 633.4 | 619.8 | 622.5 |
| 27.5° | 9057.3 | 7762.6 | 4630.0 | 2362.5 | 1306.7 | 833.8 | 699.3 | 640.9 | 606.3 | 592.3 | 598.7 |
| 30° | 9781.5 | 8442.3 | 4868.9 | 2211.8 | 1208.4 | 810.1 | 713.3 | 653.4 | 603.6 | 582.5 | 583.6 |
| 32.5° | 10381.3 | 9037.3 | 5069.3 | 2103.2 | 1121.3 | 694.4 | 614.9 | 588.5 | 582.5 | 557.6 | 545.2 |
| 35° | 11148.1 | 9685.8 | 5203.8 | 2105.9 | 1080.3 | 619.8 | 547.5 | 501.5 | 468.0 | 439.3 | 439.3 |
| 37.5° | 12046.7 | 10429.9 | 5347.0 | 2134.5 | 1065.6 | 576.1 | 524.1 | 477.8 | 446.9 | 419.4 | 414.5 |
| 40° | 12935.2 | 11159.4 | 5477.8 | 2162.0 | 1056.5 | 550.1 | 505.3 | 463.1 | 434.4 | 406.9 | 399.4 |
| 42.5° | 13691.0 | 11759.2 | 5594.6 | 2175.6 | 1026.8 | 547.5 | 491.7 | 452.9 | 425.8 | 395.6 | 388.5 |
| 45° | 14249.8 | 12261.9 | 5720.4 | 2196.7 | 997.0 | 557.6 | 491.7 | 451.8 | 418.2 | 389.6 | 382.1 |
| 47.5° | 14748.7 | 12851.9 | 5930.7 | 2196.7 | 960.8 | 538.8 | 507.9 | 452.9 | 417.1 | 387.0 | 380.9 |
| 50° | 15417.1 | 13660.9 | 6328.9 | 2145.8 | 909.9 | 518.8 | 535.0 | 448.0 | 405.8 | 382.1 | 374.5 |
| 52.5° | 16338.0 | 14697.8 | 6961.2 | 2057.3 | 831.6 | 480.4 | 531.3 | 445.7 | 394.5 | 369.6 | 361.0 |
| 55° | 17427.3 | 15807.8 | 7650.7 | 1954.0 | 714.4 | 452.9 | 512.8 | 439.3 | 382.1 | 354.6 | 345.9 |
| 57.5° | 18277.3 | 16572.0 | 8136.0 | 1794.6 | 612.3 | 438.2 | 454.4 | 433.3 | 367.0 | 338.4 | 331.2 |
| 60° | 18615.7 | 16542.2 | 8269.4 | 1581.8 | 562.5 | 425.8 | 397.1 | 485.3 | 354.6 | 325.9 | 317.3 |
| 62.5° | 18432.9 | 15778.1 | 7896.0 | 1432.6 | 551.2 | 409.6 | 372.3 | 449.1 | 344.8 | 317.3 | 304.8 |
| 65° | 17587.8 | 14423.9 | 6906.6 | 1392.6 | 583.6 | 393.4 | 356.1 | 352.3 | 331.2 | 304.8 | 292.4 |
| 67.5° | 15746.8 | 12400.1 | 5529.8 | 1396.4 | 624.7 | 377.2 | 339.9 | 322.5 | 312.4 | 291.3 | 280.0 |
| 70° | 12825.9 | 9804.1 | 4122.1 | 1406.6 | 645.8 | 358.3 | 322.5 | 303.7 | 292.4 | 271.3 | 263.8 |
| 72.5° | 9430.7 | 7556.1 | 2994.7 | 1341.7 | 649.6 | 337.2 | 298.8 | 282.6 | 271.3 | 249.1 | 242.7 |
| 75° | 6452.1 | 5780.0 | 2077.2 | 1111.5 | 566.3 | 307.5 | 272.4 | 257.7 | 250.2 | 222.7 | 218.9 |
| 77.5° | 4713.3 | 4338.7 | 1329.3 | 825.2 | 436.7 | 270.2 | 240.4 | 229.1 | 224.2 | 194.0 | 189.1 |
| 80° | 3782.6 | 3432.6 | 831.6 | 565.2 | 319.9 | 226.5 | 201.6 | 195.6 | 190.3 | 160.5 | 156.7 |
| 82.5° | 2623.6 | 2298.8 | 533.9 | 367.0 | 240.4 | 175.6 | 159.4 | 156.7 | 149.2 | 122.1 | 118.3 |
| 85° | 1383.9 | 1248.3 | 338.4 | 250.2 | 174.1 | 120.6 | 110.8 | 110.8 | 107.0 | 81.0 | 78.4 |
| 87.5° | 176.7 | 287.5 | 171.8 | 130.7 | 95.7 | 53.5 | 53.5 | 52.4 | 56.1 | 46.0 | 39.9 |
| 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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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 |
| 2.5° | 6182.0 | 6241.9 | 6184.6 | 6188.4 | 6251.7 | 6440.8 | 6526.7 | 6597.6 | 6673.7 | 6723.4 | 6745.7 |
| 5° | 4480.8 | 4620.2 | 4667.3 | 4766.8 | 4913.7 | 5155.2 | 5250.9 | 5320.6 | 5367.0 | 5394.1 | 5405.4 |
| 7.5° | 3064.4 | 3148.8 | 3243.4 | 3403.9 | 3723.8 | 3865.9 | 3929.2 | 3913.0 | 3861.0 | 3842.1 | 3823.7 |
| 10° | 2310.1 | 2276.6 | 2258.9 | 2347.4 | 2606.3 | 2749.4 | 2794.3 | 2750.6 | 2721.9 | 2728.3 | 2759.2 |
| 12.5° | 1789.8 | 1731.3 | 1660.5 | 1650.3 | 1821.0 | 1949.1 | 1977.8 | 1980.0 | 2032.4 | 2078.4 | 2146.9 |
| 15° | 1304.4 | 1298.0 | 1263.4 | 1242.3 | 1339.1 | 1443.9 | 1456.3 | 1478.5 | 1526.0 | 1559.5 | 1619.1 |
| 17.5° | 919.7 | 953.3 | 980.8 | 994.3 | 1067.8 | 1142.4 | 1128.9 | 1117.6 | 1108.9 | 1108.9 | 1137.5 |
| 20° | 741.9 | 764.1 | 799.2 | 838.7 | 913.7 | 965.7 | 932.2 | 887.3 | 854.9 | 845.1 | 848.9 |
| 22.5° | 668.4 | 685.8 | 705.7 | 740.4 | 807.8 | 844.0 | 807.8 | 775.4 | 743.0 | 731.7 | 728.0 |
| 25° | 631.1 | 653.4 | 672.2 | 698.2 | 747.9 | 772.8 | 738.1 | 714.4 | 694.4 | 680.9 | 670.7 |
| 27.5° | 610.0 | 629.6 | 634.9 | 647.3 | 689.5 | 711.8 | 694.4 | 684.6 | 672.2 | 659.8 | 647.3 |
| 30° | 587.4 | 583.6 | 575.0 | 576.1 | 610.0 | 632.3 | 631.1 | 633.4 | 632.3 | 628.5 | 626.2 |
| 32.5° | 536.5 | 529.0 | 521.5 | 529.0 | 559.9 | 579.9 | 581.4 | 586.3 | 586.3 | 585.2 | 595.0 |
| 35° | 446.9 | 460.4 | 469.1 | 491.7 | 529.0 | 546.3 | 538.8 | 526.4 | 504.1 | 490.2 | 489.1 |
| 37.5° | 413.3 | 415.6 | 430.7 | 461.6 | 503.0 | 518.8 | 507.9 | 479.3 | 464.2 | 461.6 | 465.3 |
| 40° | 397.1 | 399.4 | 408.1 | 436.7 | 477.8 | 494.0 | 484.2 | 463.1 | 449.1 | 448.0 | 454.4 |
| 42.5° | 385.8 | 388.5 | 393.4 | 413.3 | 446.9 | 466.8 | 468.0 | 452.9 | 436.7 | 438.2 | 444.2 |
| 45° | 379.4 | 380.9 | 379.4 | 389.6 | 420.5 | 444.2 | 454.4 | 444.2 | 430.7 | 433.3 | 440.5 |
| 47.5° | 378.3 | 374.5 | 369.6 | 372.3 | 404.7 | 428.0 | 440.5 | 436.7 | 430.7 | 433.3 | 439.3 |
| 50° | 373.4 | 364.7 | 358.3 | 357.2 | 389.6 | 414.5 | 425.8 | 425.8 | 428.0 | 433.3 | 439.3 |
| 52.5° | 358.3 | 348.5 | 348.5 | 344.8 | 379.4 | 403.2 | 410.7 | 411.8 | 415.6 | 424.3 | 433.3 |
| 55° | 339.9 | 336.1 | 339.9 | 333.5 | 372.3 | 394.5 | 398.3 | 400.9 | 403.2 | 410.7 | 423.1 |
| 57.5° | 323.7 | 318.8 | 327.4 | 324.8 | 365.9 | 385.8 | 385.8 | 390.7 | 390.7 | 400.9 | 410.7 |
| 60° | 315.0 | 304.8 | 308.6 | 311.2 | 357.2 | 378.3 | 376.0 | 380.9 | 383.2 | 392.2 | 399.4 |
| 62.5° | 303.7 | 295.0 | 295.0 | 301.1 | 347.4 | 367.0 | 365.9 | 369.6 | 379.4 | 382.1 | 389.6 |
| 65° | 290.1 | 286.4 | 282.6 | 290.1 | 337.2 | 354.6 | 356.1 | 361.0 | 369.6 | 372.3 | 378.3 |
| 67.5° | 276.2 | 277.7 | 270.2 | 277.7 | 328.6 | 342.1 | 342.1 | 352.3 | 356.1 | 361.0 | 367.0 |
| 70° | 261.5 | 262.6 | 256.2 | 265.3 | 322.5 | 328.6 | 327.4 | 341.0 | 343.6 | 347.4 | 353.4 |
| 72.5° | 242.7 | 242.7 | 240.4 | 252.8 | 312.4 | 315.0 | 312.4 | 323.7 | 324.8 | 328.6 | 331.2 |
| 75° | 222.7 | 222.7 | 220.4 | 237.8 | 306.3 | 299.9 | 292.4 | 301.1 | 303.7 | 306.3 | 306.3 |
| 77.5° | 196.7 | 199.3 | 199.3 | 220.4 | 284.9 | 293.9 | 268.7 | 273.9 | 277.7 | 278.8 | 275.1 |
| 80° | 164.3 | 170.7 | 172.9 | 200.5 | 238.9 | 271.3 | 240.4 | 243.8 | 245.3 | 245.3 | 240.4 |
| 82.5° | 125.8 | 136.8 | 143.2 | 172.9 | 183.1 | 227.6 | 209.1 | 212.9 | 209.1 | 201.6 | 199.3 |
| 85° | 87.0 | 102.1 | 109.6 | 131.9 | 138.3 | 175.6 | 174.1 | 174.1 | 166.9 | 156.7 | 155.6 |
| 87.5° | 47.5 | 56.1 | 61.0 | 78.4 | 94.6 | 118.3 | 128.1 | 124.3 | 118.3 | 111.9 | 113.4 |
| 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: GLNA-AF-05-LED-E1-SLR-7027

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 | 7649.6 |
| 2.5° | 6862.8 | 7032.0 | 7302.2 | 7508.7 | 7716.7 | 7917.1 | 8133.8 | 8299.2 | 8439.7 | 8494.7 | 8661.3 |
| 5° | 5518.8 | 5730.2 | 5985.3 | 6445.7 | 6772.0 | 7131.5 | 7547.5 | 8097.6 | 8309.0 | 8601.7 | 9080.6 |
| 7.5° | 3902.0 | 4093.4 | 4504.1 | 4876.4 | 5338.4 | 5847.4 | 6408.4 | 7167.7 | 7445.4 | 7914.5 | 8694.8 |
| 10° | 2913.7 | 3136.4 | 3466.1 | 3780.0 | 4186.9 | 4707.2 | 5351.9 | 6200.8 | 6538.1 | 7047.1 | 7945.7 |
| 12.5° | 2347.4 | 2610.0 | 2959.7 | 3254.7 | 3569.7 | 3936.7 | 4562.9 | 5493.6 | 5945.7 | 6391.1 | 7299.5 |
| 15° | 1803.3 | 2078.4 | 2403.5 | 2778.1 | 3125.1 | 3521.1 | 4177.1 | 5195.2 | 5715.1 | 6179.7 | 6954.8 |
| 17.5° | 1248.3 | 1483.4 | 1893.0 | 2283.7 | 2728.3 | 3234.7 | 4070.1 | 5258.5 | 5879.4 | 6414.8 | 7014.7 |
| 20° | 885.1 | 1019.2 | 1355.3 | 1808.6 | 2362.5 | 2998.1 | 4050.1 | 5591.9 | 6399.8 | 7010.9 | 7397.9 |
| 22.5° | 744.2 | 793.9 | 989.4 | 1405.0 | 2044.8 | 2821.4 | 4119.8 | 6059.9 | 7101.7 | 7882.1 | 8009.0 |
| 25° | 678.2 | 708.4 | 810.1 | 1102.9 | 1762.2 | 2693.3 | 4354.9 | 6757.0 | 7970.6 | 8753.6 | 8731.0 |
| 27.5° | 642.0 | 673.3 | 740.4 | 931.0 | 1549.7 | 2613.8 | 4590.1 | 7583.6 | 8963.8 | 9699.3 | 9420.5 |
| 30° | 631.1 | 673.3 | 744.2 | 877.5 | 1397.9 | 2487.9 | 4783.0 | 8309.0 | 9728.0 | 10338.0 | 9734.4 |
| 32.5° | 622.5 | 628.5 | 660.9 | 756.6 | 1253.2 | 2341.0 | 4913.7 | 8960.1 | 10475.9 | 10945.4 | 10186.1 |
| 35° | 503.0 | 533.9 | 586.3 | 678.2 | 1168.8 | 2252.8 | 4913.7 | 9521.5 | 11212.9 | 11558.8 | 10616.8 |
| 37.5° | 484.2 | 511.7 | 557.6 | 636.0 | 1121.3 | 2209.1 | 4815.4 | 10062.9 | 11965.7 | 12254.7 | 10971.4 |
| 40° | 474.4 | 496.6 | 540.3 | 603.6 | 1101.4 | 2159.4 | 4672.2 | 10540.7 | 12701.2 | 12951.4 | 11302.6 |
| 42.5° | 466.8 | 486.8 | 527.9 | 583.6 | 1075.4 | 2104.7 | 4556.5 | 10923.9 | 13339.9 | 13546.3 | 11618.7 |
| 45° | 463.1 | 484.2 | 529.0 | 593.8 | 1023.0 | 2032.4 | 4518.1 | 11338.4 | 13865.1 | 14042.9 | 11960.8 |
| 47.5° | 463.1 | 487.9 | 535.0 | 614.9 | 960.8 | 1957.8 | 4638.7 | 11885.1 | 14361.7 | 14448.7 | 12364.0 |
| 50° | 459.3 | 486.8 | 552.8 | 593.8 | 870.0 | 1863.2 | 4922.4 | 12573.1 | 14899.4 | 14909.2 | 12874.5 |
| 52.5° | 451.8 | 484.2 | 595.0 | 581.4 | 765.3 | 1738.9 | 5306.0 | 13457.0 | 15694.8 | 15754.3 | 13673.3 |
| 55° | 443.1 | 480.4 | 583.6 | 552.8 | 679.7 | 1590.8 | 5619.4 | 14530.9 | 16812.4 | 16977.8 | 14848.5 |
| 57.5° | 431.8 | 475.5 | 565.2 | 512.8 | 623.6 | 1400.2 | 5732.9 | 15317.6 | 17592.7 | 18008.3 | 16172.6 |
| 60° | 422.0 | 471.7 | 510.2 | 489.1 | 588.5 | 1239.6 | 5513.6 | 15162.0 | 17539.2 | 18435.2 | 17346.3 |
| 62.5° | 411.8 | 475.5 | 465.3 | 474.4 | 572.3 | 1136.4 | 4941.2 | 13916.0 | 16651.8 | 17994.7 | 18216.3 |
| 65° | 400.9 | 442.0 | 439.3 | 461.6 | 569.0 | 1095.3 | 4096.1 | 12047.8 | 14936.7 | 16602.1 | 18421.6 |
| 67.5° | 385.8 | 408.1 | 420.5 | 445.7 | 581.4 | 1059.2 | 3305.6 | 9938.2 | 12553.1 | 14514.7 | 17351.2 |
| 70° | 369.6 | 388.5 | 402.0 | 425.8 | 573.9 | 1043.0 | 2749.4 | 7837.2 | 9960.8 | 11896.0 | 15239.3 |
| 72.5° | 348.5 | 364.7 | 377.2 | 399.4 | 566.3 | 1034.3 | 2322.5 | 6311.6 | 7436.7 | 8836.8 | 12390.3 |
| 75° | 323.7 | 338.4 | 347.4 | 369.6 | 542.6 | 947.2 | 1825.9 | 5340.6 | 5564.8 | 6147.3 | 9868.5 |
| 77.5° | 295.0 | 306.3 | 313.5 | 338.4 | 480.4 | 787.9 | 1320.6 | 4119.8 | 4321.4 | 4463.1 | 7565.9 |
| 80° | 261.5 | 272.4 | 276.2 | 299.9 | 398.3 | 616.1 | 861.3 | 3043.0 | 3232.1 | 3264.5 | 4941.2 |
| 82.5° | 222.7 | 234.0 | 234.0 | 256.2 | 325.9 | 443.1 | 565.2 | 2084.8 | 2122.1 | 2231.7 | 3492.5 |
| 85° | 179.4 | 188.0 | 188.0 | 199.3 | 252.8 | 331.2 | 388.5 | 1046.7 | 1035.4 | 1182.4 | 3025.6 |
| 87.5° | 128.1 | 134.5 | 140.5 | 143.2 | 180.5 | 218.9 | 234.0 | 318.8 | 210.2 | 241.5 | 1942.7 |
| 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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| 40° | 9853.8 | 8790.9 | 8559.2 | 9177.8 | 9812.7 | 10941.6 | 12669.2 | 12935.2 |
| 42.5° | 10350.4 | 9633.4 | 9357.2 | 9984.2 | 10570.5 | 11408.1 | 13296.2 | 13691.0 |
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| 72.5° | 9715.5 | 8322.9 | 8599.1 | 8565.6 | 9187.6 | 12010.5 | 11521.5 | 9430.7 |
| 75° | 6883.9 | 5643.2 | 5677.8 | 5664.3 | 6411.1 | 9396.8 | 8342.9 | 6452.1 |
| 77.5° | 4816.5 | 4088.5 | 4107.4 | 4184.2 | 4310.1 | 7087.0 | 5960.4 | 4713.3 |
| 80° | 3312.0 | 3102.9 | 3206.1 | 3212.5 | 2987.2 | 4760.7 | 4403.5 | 3782.6 |
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