

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: STREETWORKS

Report Number: P268522

Luminaire Tested: **GAN-AF-05-LED-U-SL4-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-SL4-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16182.7 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

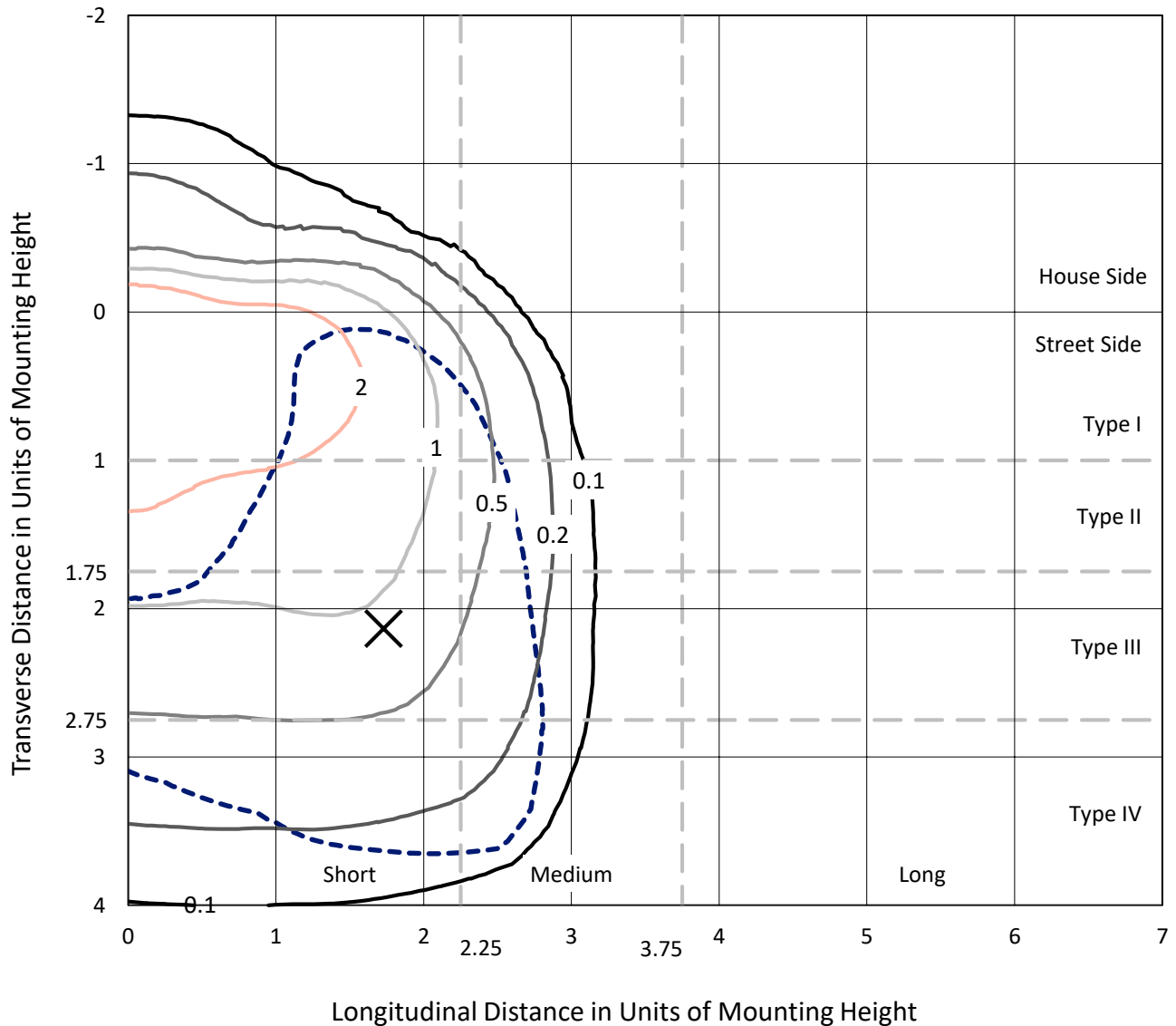
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

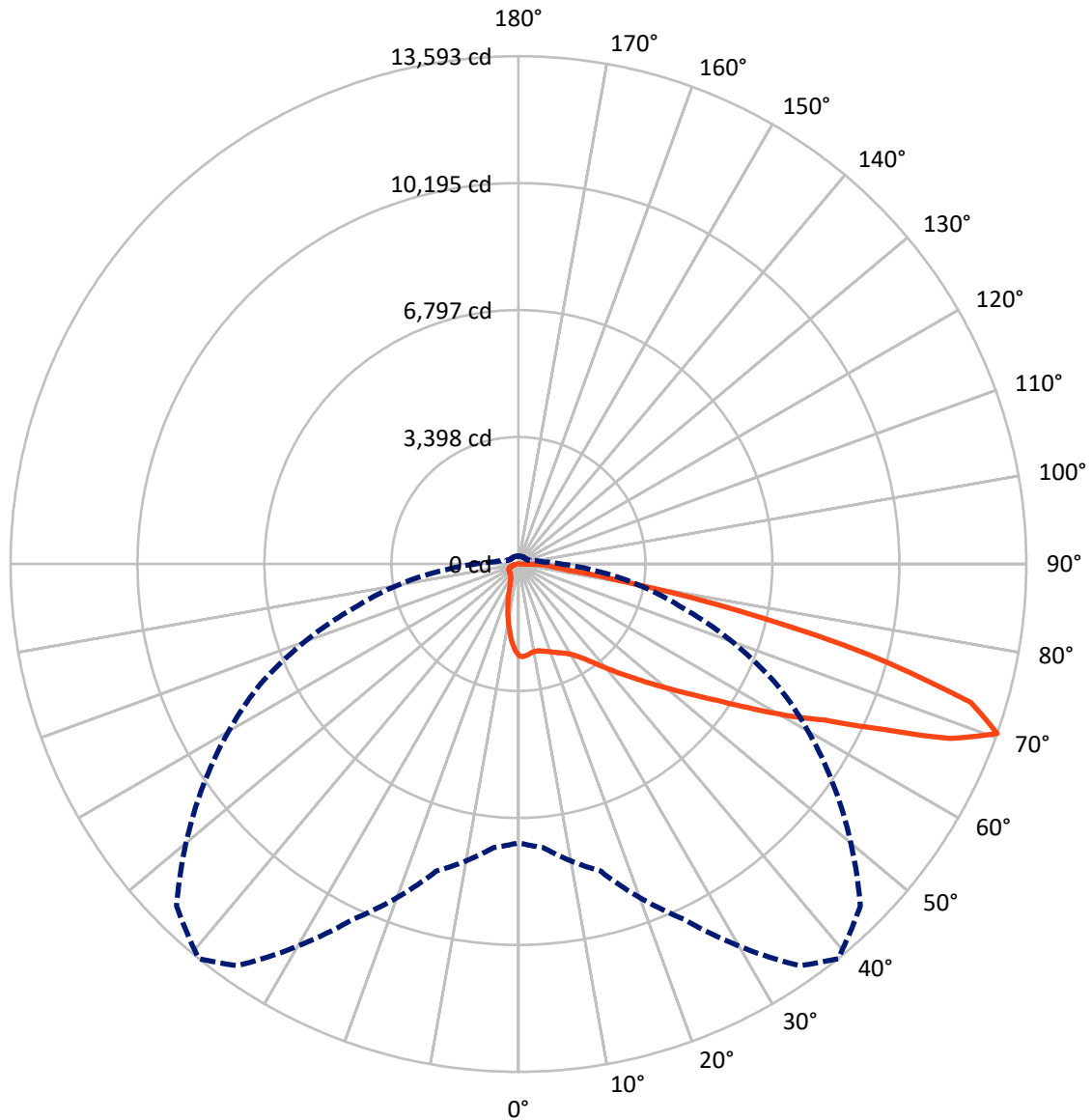


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1840.5 | 0.0 | 1840.5 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 14342.2 | 0.0 | 14342.2 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 16182.7 | 0.0 | 16182.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 210.8 | 1.3 |
| 10°-20° | 527.0 | 3.3 |
| 20°-30° | 820.6 | 5.1 |
| 30°-40° | 1278.3 | 7.9 |
| 40°-50° | 2146.1 | 13.3 |
| 50°-60° | 3409.2 | 21.1 |
| 60°-70° | 4547.5 | 28.1 |
| 70°-80° | 2746.1 | 17.0 |
| 80°-90° | 497.0 | 3.1 |
| 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° | 16182.7 | 100.0 |
| 0°-180° | 16182.7 | 100.0 |

Coefficient of Utilization



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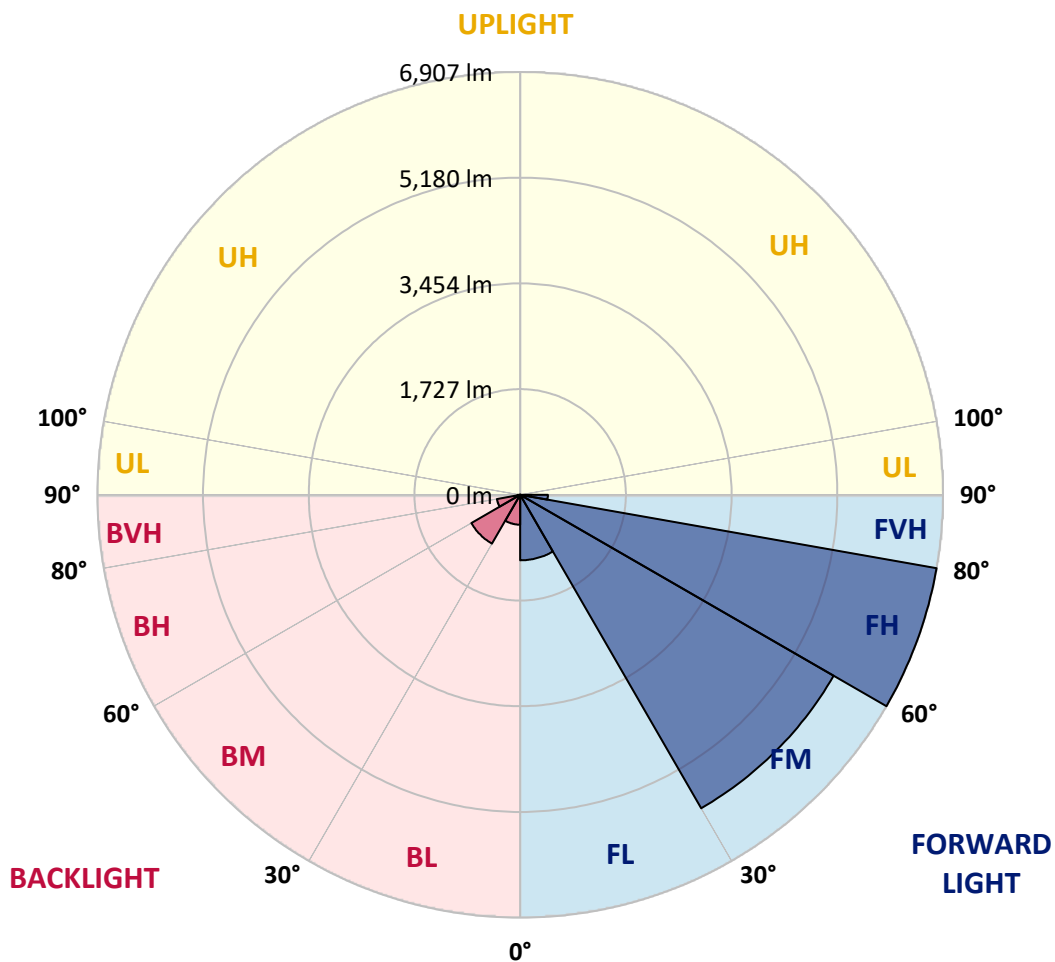
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1070.2 | 6.6 | | | |
| FM | (30°-60°) | 5912.5 | 36.5 | | | |
| FH | (60°-80°) | 6907.2 | 42.7 | | | G3/7500 |
| FVH | (80°-90°) | 452.2 | 2.8 | | | G3/500 |
| BL | (0°-30°) | 488.3 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 921.1 | 5.7 | B1/1000 | | |
| BH | (60°-80°) | 386.4 | 2.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 44.8 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 |
| 2.5° | 2504.6 | 2503.7 | 2497.1 | 2492.2 | 2488.0 | 2486.4 | 2489.7 | 2477.3 | 2466.7 | 2453.5 | 2439.4 |
| 5° | 2485.6 | 2484.7 | 2474.0 | 2464.2 | 2454.3 | 2451.0 | 2450.1 | 2427.9 | 2414.9 | 2395.2 | 2368.7 |
| 7.5° | 2464.9 | 2460.8 | 2447.0 | 2430.5 | 2413.1 | 2404.9 | 2396.7 | 2367.9 | 2353.1 | 2333.3 | 2303.0 |
| 10° | 2443.6 | 2438.7 | 2425.6 | 2409.1 | 2392.5 | 2380.2 | 2366.2 | 2338.3 | 2322.7 | 2307.8 | 2272.5 |
| 12.5° | 2421.4 | 2417.2 | 2413.9 | 2406.6 | 2395.2 | 2384.5 | 2373.7 | 2349.8 | 2333.3 | 2316.1 | 2275.0 |
| 15° | 2418.1 | 2416.5 | 2423.8 | 2428.7 | 2422.2 | 2415.6 | 2404.1 | 2383.6 | 2366.2 | 2349.0 | 2295.4 |
| 17.5° | 2444.5 | 2443.6 | 2462.6 | 2475.6 | 2472.4 | 2460.8 | 2445.2 | 2422.2 | 2408.3 | 2393.4 | 2326.8 |
| 20° | 2502.0 | 2506.1 | 2529.2 | 2546.4 | 2529.9 | 2513.5 | 2488.0 | 2456.0 | 2448.6 | 2442.0 | 2358.9 |
| 22.5° | 2610.7 | 2614.7 | 2631.2 | 2637.9 | 2595.1 | 2571.2 | 2535.7 | 2494.7 | 2489.7 | 2494.7 | 2397.5 |
| 25° | 2780.2 | 2776.0 | 2773.5 | 2748.9 | 2670.8 | 2633.7 | 2588.5 | 2545.6 | 2548.1 | 2570.3 | 2451.8 |
| 27.5° | 3004.7 | 2982.6 | 2948.0 | 2873.9 | 2749.7 | 2708.6 | 2653.5 | 2613.9 | 2629.6 | 2672.4 | 2533.3 |
| 30° | 3237.6 | 3212.9 | 3133.1 | 3012.1 | 2853.3 | 2808.1 | 2746.4 | 2701.9 | 2743.2 | 2810.5 | 2641.8 |
| 32.5° | 3453.2 | 3449.9 | 3333.0 | 3177.6 | 2996.6 | 2957.0 | 2895.2 | 2845.1 | 2911.8 | 3014.6 | 2804.8 |
| 35° | 3688.5 | 3695.8 | 3556.0 | 3369.3 | 3189.9 | 3148.6 | 3104.4 | 3066.5 | 3155.2 | 3296.8 | 3040.9 |
| 37.5° | 3940.2 | 3955.1 | 3789.7 | 3579.0 | 3410.3 | 3393.1 | 3366.8 | 3350.3 | 3487.7 | 3683.5 | 3370.9 |
| 40° | 4276.7 | 4261.9 | 4032.4 | 3816.0 | 3681.1 | 3680.3 | 3672.0 | 3691.8 | 3920.6 | 4188.6 | 3794.6 |
| 42.5° | 4637.1 | 4593.6 | 4289.9 | 4070.2 | 3978.1 | 4006.0 | 4022.5 | 4103.2 | 4441.3 | 4802.5 | 4311.2 |
| 45° | 5025.5 | 4927.6 | 4557.3 | 4339.3 | 4308.0 | 4367.2 | 4423.2 | 4598.5 | 5054.3 | 5501.0 | 4877.3 |
| 47.5° | 5335.7 | 5241.0 | 4833.8 | 4621.5 | 4689.8 | 4779.4 | 4887.1 | 5164.4 | 5740.3 | 6222.6 | 5436.1 |
| 50° | 5580.0 | 5518.3 | 5112.7 | 4950.6 | 5110.2 | 5248.4 | 5424.4 | 5805.4 | 6454.6 | 6925.3 | 5953.5 |
| 52.5° | 5817.0 | 5770.9 | 5394.1 | 5288.0 | 5603.8 | 5794.7 | 6034.2 | 6493.3 | 7186.9 | 7616.4 | 6388.7 |
| 55° | 6031.0 | 5998.0 | 5696.8 | 5708.4 | 6184.7 | 6433.2 | 6734.4 | 7276.5 | 7984.9 | 8232.5 | 6757.4 |
| 57.5° | 6272.0 | 6229.9 | 6042.4 | 6235.8 | 6931.1 | 7253.5 | 7645.1 | 8156.9 | 8733.6 | 8780.6 | 7038.0 |
| 60° | 6514.7 | 6478.4 | 6425.8 | 6844.5 | 7878.9 | 8217.8 | 8588.9 | 9010.1 | 9493.1 | 9205.9 | 7021.5 |
| 62.5° | 6725.3 | 6729.5 | 6822.4 | 7483.9 | 8807.0 | 9199.4 | 9651.8 | 10068.3 | 10180.1 | 9280.0 | 6502.3 |
| 65° | 7082.3 | 7147.4 | 7424.6 | 8388.9 | 10113.5 | 10638.4 | 11193.7 | 11127.0 | 10370.2 | 8588.1 | 5389.1 |
| 67.5° | 7507.0 | 7621.3 | 8183.2 | 9595.1 | 11764.7 | 12461.6 | 12676.3 | 11366.6 | 9609.1 | 6981.2 | 3841.5 |
| 70° | 7464.1 | 7621.3 | 8510.7 | 10494.4 | 13125.6 | 13593.0 | 12941.3 | 10287.0 | 7630.4 | 4560.5 | 2040.5 |
| 72.5° | 6628.2 | 6852.8 | 7843.5 | 10082.1 | 12697.0 | 12655.9 | 11234.9 | 7669.0 | 4533.4 | 1831.5 | 797.2 |
| 75° | 5051.8 | 5278.9 | 6131.2 | 7965.2 | 10035.2 | 9689.7 | 7971.7 | 4236.4 | 1720.4 | 727.3 | 502.7 |
| 77.5° | 2905.9 | 3082.1 | 3740.4 | 4884.8 | 6366.6 | 6011.9 | 4437.2 | 1884.1 | 837.6 | 506.9 | 392.5 |
| 80° | 1622.5 | 1720.4 | 2120.3 | 2478.2 | 3120.0 | 2859.9 | 1985.3 | 1170.9 | 625.3 | 367.8 | 302.8 |
| 82.5° | 1282.7 | 1369.9 | 1714.7 | 1563.3 | 1425.0 | 1314.8 | 1140.4 | 1042.5 | 499.4 | 232.0 | 181.0 |
| 85° | 1120.6 | 1203.6 | 1451.3 | 1230.9 | 973.4 | 892.6 | 926.4 | 1026.0 | 388.3 | 139.9 | 154.7 |
| 87.5° | 1038.4 | 1149.4 | 1293.4 | 948.6 | 757.8 | 671.4 | 854.8 | 1124.7 | 125.0 | 87.2 | 62.5 |
| 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: GAN-AF-05-LED-U-SL4-7027-600

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 |
| 2.5° | 2427.2 | 2413.9 | 2392.5 | 2373.7 | 2344.0 | 2328.4 | 2311.2 | 2298.9 | 2288.9 | 2280.6 | 2293.9 |
| 5° | 2352.3 | 2327.6 | 2282.4 | 2233.8 | 2176.2 | 2131.0 | 2093.1 | 2057.7 | 2033.0 | 2016.5 | 2028.2 |
| 7.5° | 2281.5 | 2241.2 | 2170.5 | 2082.5 | 1983.6 | 1899.7 | 1830.7 | 1769.8 | 1727.8 | 1700.6 | 1711.4 |
| 10° | 2241.2 | 2191.1 | 2081.6 | 1943.4 | 1797.8 | 1667.0 | 1558.3 | 1464.5 | 1399.5 | 1362.5 | 1368.3 |
| 12.5° | 2231.3 | 2166.4 | 2015.0 | 1824.8 | 1625.8 | 1443.9 | 1291.0 | 1160.9 | 1069.6 | 1021.9 | 1023.4 |
| 15° | 2238.8 | 2155.7 | 1952.5 | 1711.4 | 1459.6 | 1230.0 | 1039.2 | 881.1 | 775.1 | 720.7 | 719.9 |
| 17.5° | 2251.2 | 2147.4 | 1886.6 | 1588.7 | 1291.0 | 1024.3 | 811.3 | 656.7 | 562.8 | 519.2 | 515.8 |
| 20° | 2264.3 | 2134.3 | 1812.6 | 1456.3 | 1115.7 | 833.4 | 635.2 | 514.2 | 455.0 | 431.1 | 429.5 |
| 22.5° | 2283.2 | 2122.8 | 1736.1 | 1316.5 | 943.7 | 678.8 | 522.5 | 441.0 | 409.7 | 397.4 | 395.8 |
| 25° | 2313.7 | 2116.9 | 1654.6 | 1170.9 | 789.0 | 567.6 | 455.0 | 404.7 | 386.7 | 378.5 | 377.6 |
| 27.5° | 2364.6 | 2125.2 | 1578.1 | 1029.3 | 663.2 | 492.8 | 417.2 | 386.7 | 373.5 | 366.1 | 365.3 |
| 30° | 2430.5 | 2150.7 | 1497.5 | 895.3 | 565.3 | 441.8 | 394.0 | 374.4 | 363.6 | 356.3 | 356.3 |
| 32.5° | 2539.9 | 2193.5 | 1412.7 | 779.2 | 495.3 | 406.5 | 376.7 | 363.6 | 354.7 | 348.8 | 348.1 |
| 35° | 2701.2 | 2274.1 | 1333.8 | 682.9 | 445.1 | 380.9 | 361.9 | 352.1 | 345.6 | 342.3 | 342.3 |
| 37.5° | 2935.7 | 2401.7 | 1263.7 | 613.8 | 414.7 | 363.6 | 348.1 | 340.6 | 336.5 | 336.5 | 336.5 |
| 40° | 3250.7 | 2577.7 | 1207.1 | 567.6 | 397.4 | 351.2 | 337.4 | 331.6 | 329.0 | 329.9 | 329.9 |
| 42.5° | 3639.9 | 2806.5 | 1169.1 | 535.6 | 389.1 | 344.0 | 329.9 | 324.9 | 322.5 | 321.8 | 322.5 |
| 45° | 4083.3 | 3066.5 | 1165.0 | 511.8 | 380.9 | 339.0 | 324.9 | 320.1 | 315.1 | 311.8 | 311.8 |
| 47.5° | 4514.5 | 3330.6 | 1198.8 | 503.5 | 371.9 | 333.2 | 320.9 | 315.9 | 308.6 | 301.1 | 301.1 |
| 50° | 4895.5 | 3555.2 | 1244.1 | 506.9 | 368.7 | 324.9 | 314.2 | 311.8 | 300.4 | 292.0 | 291.3 |
| 52.5° | 5198.2 | 3728.0 | 1281.1 | 516.6 | 371.9 | 319.3 | 306.1 | 307.0 | 294.6 | 285.5 | 284.7 |
| 55° | 5440.9 | 3841.5 | 1271.2 | 526.5 | 379.4 | 315.9 | 298.6 | 300.4 | 290.4 | 281.3 | 281.3 |
| 57.5° | 5547.2 | 3799.6 | 1161.8 | 518.3 | 385.1 | 316.7 | 292.8 | 299.4 | 291.3 | 283.1 | 283.1 |
| 60° | 5319.1 | 3426.9 | 956.9 | 482.1 | 377.6 | 314.2 | 290.4 | 302.8 | 302.0 | 293.7 | 292.8 |
| 62.5° | 4629.8 | 2759.6 | 742.1 | 428.6 | 352.1 | 302.0 | 283.9 | 302.0 | 311.1 | 308.6 | 307.7 |
| 65° | 3568.3 | 1965.6 | 566.9 | 371.1 | 317.6 | 281.3 | 266.5 | 283.1 | 295.4 | 298.6 | 297.9 |
| 67.5° | 2316.1 | 1204.5 | 436.8 | 316.7 | 279.0 | 257.5 | 244.3 | 251.7 | 254.2 | 254.2 | 252.7 |
| 70° | 1138.7 | 648.3 | 348.1 | 266.5 | 239.4 | 232.0 | 224.7 | 220.5 | 216.4 | 213.1 | 213.1 |
| 72.5° | 562.0 | 423.7 | 286.3 | 225.5 | 206.5 | 203.2 | 201.6 | 196.6 | 193.3 | 189.3 | 187.6 |
| 75° | 415.5 | 344.7 | 243.5 | 190.0 | 177.8 | 174.5 | 177.8 | 173.6 | 172.7 | 169.5 | 167.9 |
| 77.5° | 341.4 | 293.7 | 209.8 | 163.0 | 152.3 | 146.5 | 151.4 | 152.3 | 153.0 | 148.1 | 146.5 |
| 80° | 277.2 | 248.6 | 175.3 | 134.9 | 125.0 | 120.9 | 124.2 | 130.9 | 132.5 | 125.0 | 121.8 |
| 82.5° | 200.0 | 203.2 | 141.6 | 105.3 | 97.0 | 93.9 | 100.4 | 108.7 | 110.2 | 99.5 | 97.0 |
| 85° | 167.9 | 169.5 | 108.7 | 74.9 | 66.7 | 61.8 | 72.5 | 80.7 | 86.3 | 75.6 | 73.2 |
| 87.5° | 70.0 | 99.5 | 62.5 | 42.0 | 37.0 | 32.1 | 38.6 | 42.8 | 51.8 | 47.7 | 46.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)