

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: P192093

Luminaire Tested: **GAN-AF-05-LED-U-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
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-SLL-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26145 lumens
Efficiency: N/A
Efficacy: 93.7 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

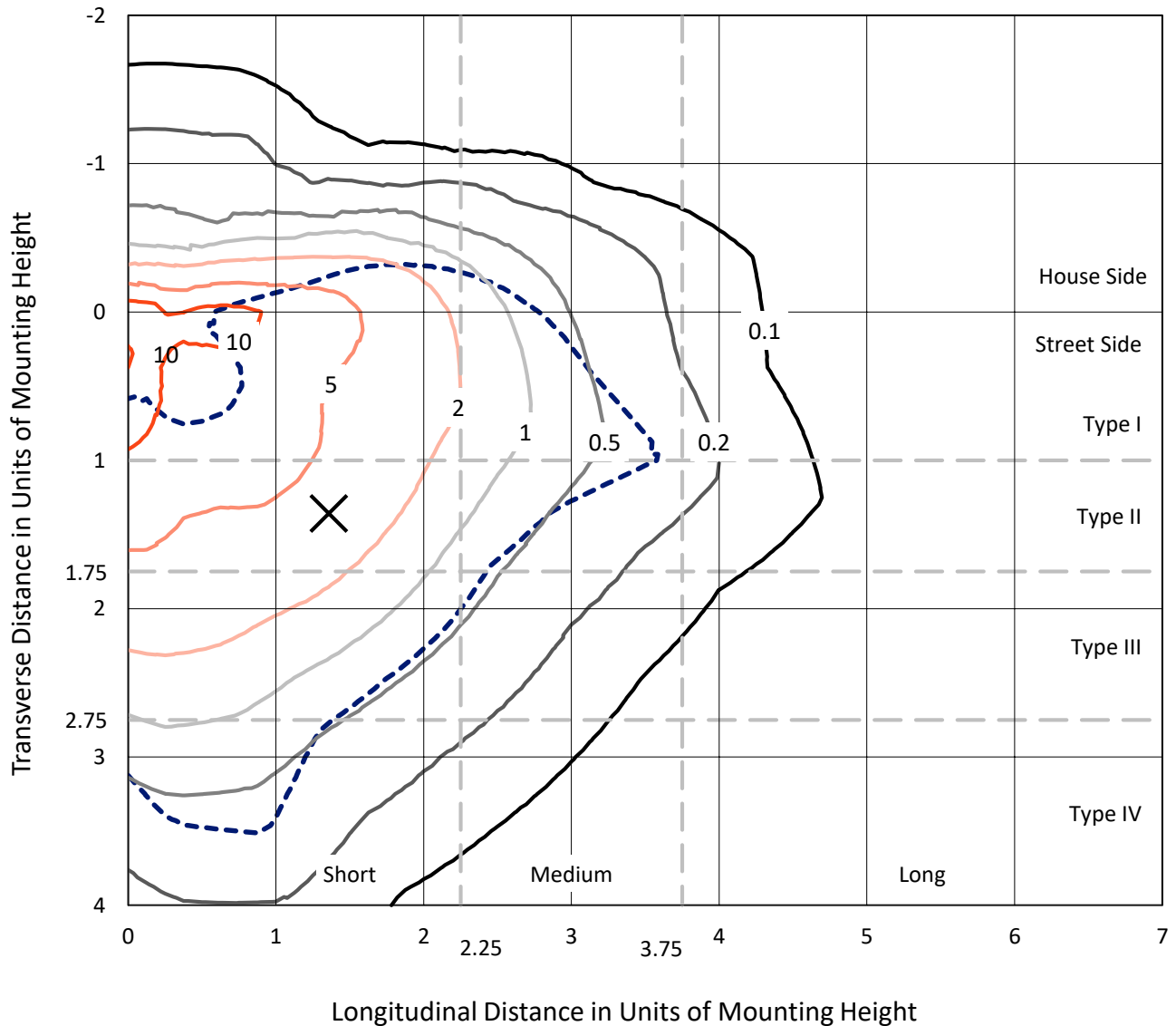
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P192093
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Iso-Footcandle Lines of Horizontal Illumination

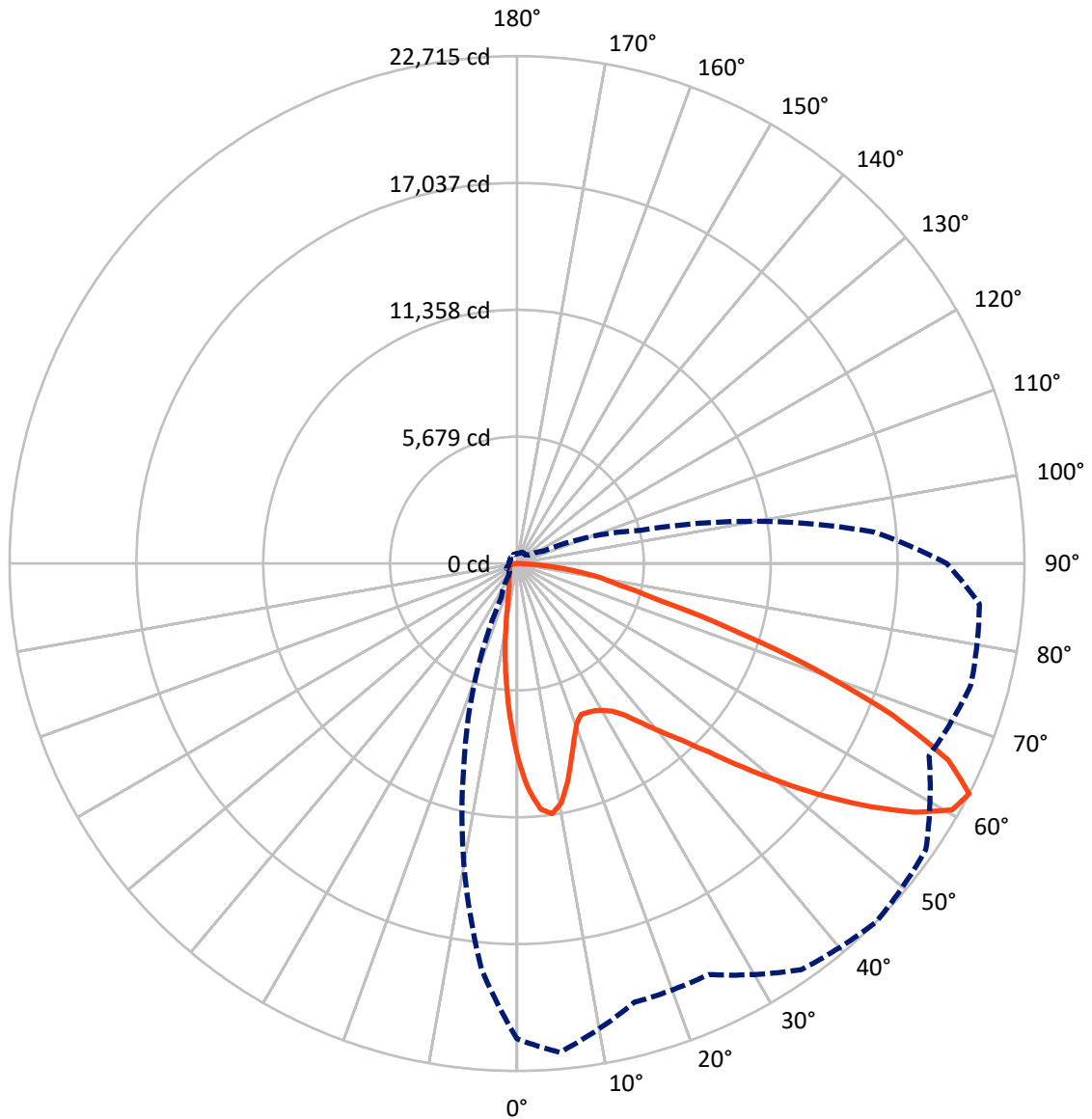
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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 | 4326.6 | 0.0 | 4326.6 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 21818.4 | 0.0 | 21818.4 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 26145.0 | 0.0 | 26145.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 643.0 | 2.5 |
| 10°-20° | 1179.1 | 4.5 |
| 20°-30° | 1719.2 | 6.6 |
| 30°-40° | 2647.7 | 10.1 |
| 40°-50° | 3896.8 | 14.9 |
| 50°-60° | 5715.7 | 21.9 |
| 60°-70° | 6389.4 | 24.4 |
| 70°-80° | 3128.2 | 12.0 |
| 80°-90° | 825.9 | 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° | 26145.0 | 100.0 |
| 0°-180° | 26145.0 | 100.0 |



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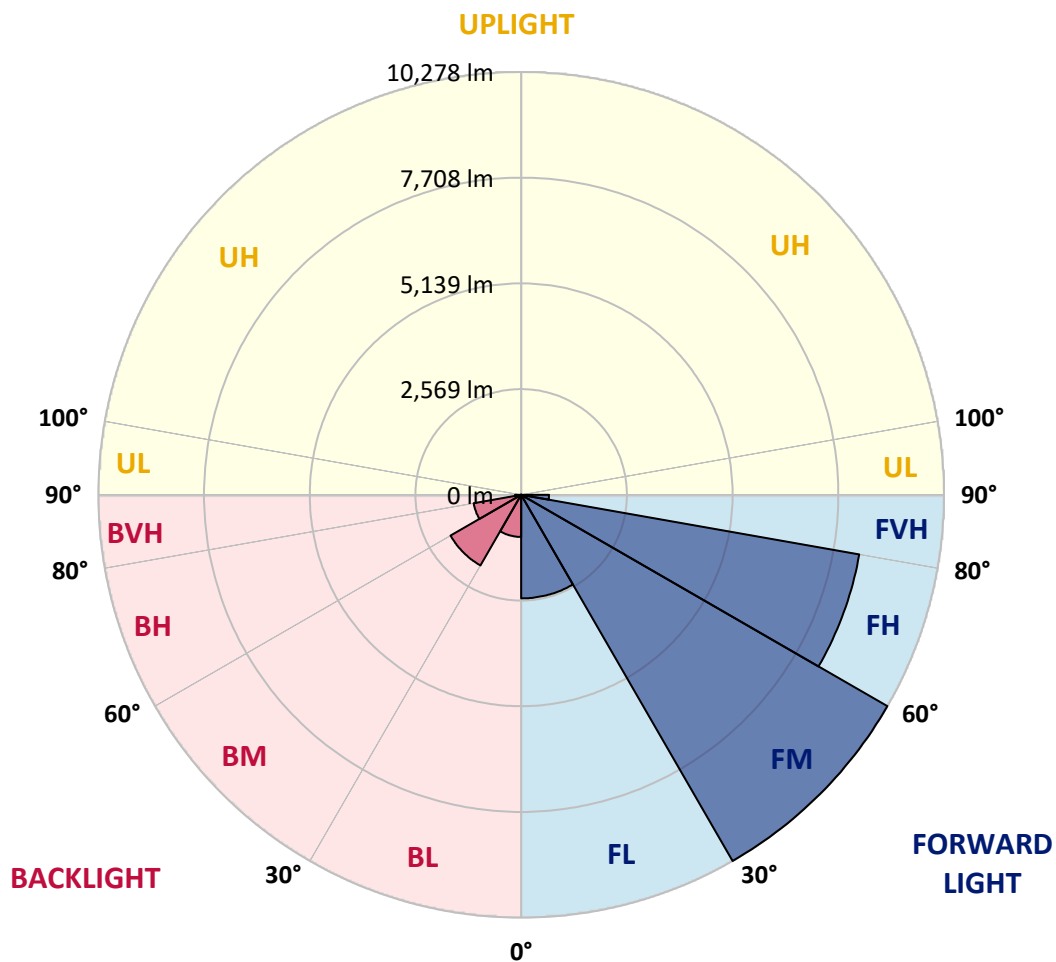
CATALOG NUMBER: GAN-AF-05-LED-U-SLL-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2517.7 | 9.6 | | | |
| FM | (30°-60°) | 10277.8 | 39.3 | | | |
| FH | (60°-80°) | 8344.6 | 31.9 | | | G4/12000 |
| FVH | (80°-90°) | 678.3 | 2.6 | | | G4/750 |
| BL | (0°-30°) | 1023.6 | 3.9 | B3/2500 | | |
| BM | (30°-60°) | 1982.4 | 7.6 | B2/2500 | | |
| BH | (60°-80°) | 1173.0 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 147.6 | 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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 CATALOG NUMBER: GAN-AF-05-LED-U-SLL-7050

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 |
| 2.5° | 9178.1 | 9324.7 | 9610.7 | 9824.9 | 10085.0 | 10145.4 | 10228.7 | 10146.8 | 10001.7 | 9809.1 | 9745.8 |
| 5° | 8630.5 | 8943.9 | 9638.0 | 10248.9 | 10792.1 | 11045.1 | 11115.5 | 10907.1 | 10486.0 | 9932.7 | 9594.9 |
| 7.5° | 7752.4 | 8197.9 | 9137.9 | 10037.6 | 10838.1 | 11311.0 | 11299.5 | 10815.1 | 10040.5 | 9139.3 | 8597.5 |
| 10° | 6995.0 | 7503.8 | 8581.7 | 9587.7 | 10437.1 | 10895.6 | 10718.8 | 10099.4 | 9175.2 | 8137.6 | 7549.7 |
| 12.5° | 6571.0 | 7069.7 | 8163.4 | 9173.8 | 9883.8 | 10041.9 | 9906.8 | 9300.3 | 8429.3 | 7380.2 | 6865.6 |
| 15° | 6497.7 | 7045.3 | 7996.7 | 8818.8 | 9216.9 | 9079.0 | 8918.0 | 8646.4 | 8031.2 | 7135.8 | 6599.7 |
| 17.5° | 6815.3 | 7419.0 | 8187.9 | 8571.6 | 8504.1 | 8264.0 | 8218.1 | 8248.2 | 8100.2 | 7407.5 | 6789.5 |
| 20° | 7424.7 | 8149.1 | 8643.5 | 8455.2 | 7962.2 | 7631.7 | 7643.2 | 8104.5 | 8542.9 | 8095.9 | 7390.2 |
| 22.5° | 8279.9 | 9106.3 | 9300.3 | 8517.0 | 7733.7 | 7341.3 | 7436.2 | 8183.6 | 9248.5 | 9102.0 | 8200.8 |
| 25° | 9386.5 | 10139.6 | 10000.2 | 8741.2 | 7756.7 | 7377.3 | 7453.5 | 8456.6 | 10082.1 | 10108.0 | 9204.0 |
| 27.5° | 10458.7 | 11157.2 | 10588.0 | 9038.7 | 7851.6 | 7462.1 | 7562.7 | 8886.4 | 10878.4 | 11200.3 | 10350.9 |
| 30° | 11295.2 | 11780.9 | 10820.9 | 9310.3 | 8038.4 | 7627.4 | 7752.4 | 9294.5 | 11240.5 | 11937.6 | 11233.4 |
| 32.5° | 11987.9 | 12337.1 | 11191.7 | 9646.7 | 8381.9 | 7887.5 | 8107.4 | 9790.4 | 11762.3 | 12639.0 | 12097.1 |
| 35° | 12873.2 | 12972.4 | 11653.0 | 10021.8 | 8912.2 | 8340.2 | 8613.3 | 10276.2 | 12259.5 | 13347.5 | 12948.0 |
| 37.5° | 13910.9 | 13783.0 | 12088.5 | 10534.9 | 9597.8 | 9048.8 | 9274.4 | 10809.4 | 12669.1 | 14150.9 | 13817.5 |
| 40° | 14937.1 | 14629.5 | 12634.7 | 11331.1 | 10598.1 | 9883.8 | 10151.1 | 11378.5 | 13051.4 | 14955.8 | 14666.9 |
| 42.5° | 15809.5 | 15353.9 | 13173.6 | 12206.4 | 11529.4 | 10805.1 | 11124.1 | 11952.0 | 13416.5 | 15642.8 | 15404.2 |
| 45° | 16454.8 | 15888.5 | 13686.7 | 13047.1 | 12812.9 | 12029.6 | 12180.5 | 12608.8 | 13811.7 | 16216.2 | 16010.7 |
| 47.5° | 17031.1 | 16426.1 | 14267.3 | 13895.1 | 13935.3 | 13622.0 | 13379.1 | 13373.4 | 14277.4 | 16684.8 | 16584.1 |
| 50° | 17802.9 | 17172.0 | 14891.1 | 14768.9 | 15619.8 | 15411.4 | 14875.3 | 14265.9 | 14866.7 | 17216.5 | 17205.0 |
| 52.5° | 18866.5 | 18353.4 | 15652.8 | 15710.3 | 17192.1 | 17328.6 | 16664.6 | 15338.1 | 15789.4 | 18192.4 | 18123.4 |
| 55° | 20124.0 | 19825.1 | 16690.5 | 16792.5 | 19120.9 | 19218.6 | 18558.9 | 16679.0 | 17146.1 | 19605.2 | 19414.0 |
| 57.5° | 21105.7 | 21042.4 | 17828.8 | 18091.8 | 20561.0 | 21000.7 | 20394.2 | 18231.2 | 18675.3 | 20795.2 | 20315.2 |
| 60° | 21496.6 | 21802.7 | 19040.4 | 19402.5 | 21893.3 | 22380.5 | 21848.7 | 19595.1 | 20030.6 | 21288.2 | 20253.4 |
| 62.5° | 21285.3 | 21969.4 | 20331.0 | 20300.8 | 22190.8 | 22715.4 | 22341.7 | 20354.0 | 21035.2 | 20779.4 | 19228.6 |
| 65° | 20309.4 | 21370.1 | 21079.8 | 20069.4 | 21173.2 | 21216.3 | 21095.6 | 20014.8 | 21272.4 | 19171.2 | 17248.1 |
| 67.5° | 18183.8 | 19710.1 | 20093.9 | 18086.0 | 18428.1 | 18147.8 | 17945.2 | 18157.9 | 20036.4 | 16760.9 | 14495.9 |
| 70° | 14810.6 | 17107.3 | 17291.3 | 14465.7 | 14310.5 | 14122.2 | 13718.3 | 14886.8 | 17597.4 | 13737.0 | 11502.1 |
| 72.5° | 10889.9 | 13304.4 | 13869.2 | 10609.6 | 9891.0 | 9929.8 | 9610.7 | 11219.0 | 14307.6 | 10204.3 | 8587.4 |
| 75° | 7450.6 | 9633.7 | 10851.1 | 7403.1 | 6540.8 | 6556.6 | 6516.4 | 7949.3 | 11395.8 | 7098.5 | 6425.8 |
| 77.5° | 5442.8 | 6882.9 | 8183.6 | 4977.1 | 4832.0 | 4742.8 | 4721.3 | 5562.1 | 8736.9 | 5153.9 | 4990.0 |
| 80° | 4367.7 | 5084.9 | 5497.4 | 3449.3 | 3709.5 | 3702.3 | 3583.0 | 3824.5 | 5705.8 | 3769.8 | 3732.5 |
| 82.5° | 3029.7 | 3907.8 | 4454.0 | 2703.4 | 2503.6 | 2462.0 | 2490.7 | 2848.6 | 4032.9 | 2576.9 | 2450.5 |
| 85° | 1598.2 | 2595.6 | 4410.8 | 2395.9 | 1486.1 | 1185.7 | 1474.6 | 2332.6 | 3493.9 | 1365.4 | 1195.8 |
| 87.5° | 204.1 | 750.2 | 2920.4 | 955.8 | 586.4 | 316.2 | 699.9 | 1313.6 | 2243.5 | 278.8 | 242.9 |
| 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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CATALOG NUMBER: GAN-AF-05-LED-U-SLL-7050

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 |
| 2.5° | 9583.4 | 9392.3 | 9142.2 | 8910.8 | 8670.8 | 8432.2 | 8120.3 | 7924.9 | 7789.8 | 7763.9 | 7706.4 |
| 5° | 9350.6 | 8715.3 | 8235.3 | 7819.9 | 7443.4 | 6911.6 | 6617.0 | 6372.7 | 6241.9 | 6228.9 | 6197.3 |
| 7.5° | 8277.0 | 7400.3 | 6752.1 | 6164.3 | 5631.1 | 5201.3 | 4727.0 | 4505.7 | 4415.2 | 4436.7 | 4458.3 |
| 10° | 7160.3 | 6180.1 | 5435.6 | 4834.8 | 4364.9 | 4002.7 | 3621.8 | 3364.5 | 3186.3 | 3150.4 | 3143.2 |
| 12.5° | 6343.9 | 5268.9 | 4545.9 | 4122.0 | 3758.3 | 3417.7 | 3013.9 | 2710.6 | 2479.2 | 2400.2 | 2347.0 |
| 15° | 5999.0 | 4823.3 | 4065.9 | 3608.9 | 3207.9 | 2775.3 | 2400.2 | 2082.5 | 1869.8 | 1800.8 | 1762.0 |
| 17.5° | 6072.3 | 4699.7 | 3735.3 | 3150.4 | 2637.3 | 2186.0 | 1713.2 | 1441.5 | 1313.6 | 1280.6 | 1280.6 |
| 20° | 6457.5 | 4676.7 | 3462.3 | 2727.9 | 2088.3 | 1565.1 | 1177.1 | 1021.9 | 980.2 | 975.9 | 987.4 |
| 22.5° | 6997.9 | 4757.2 | 3258.2 | 2361.4 | 1622.6 | 1142.6 | 917.0 | 859.5 | 840.8 | 845.1 | 858.0 |
| 25° | 7802.7 | 5028.9 | 3110.2 | 2035.1 | 1273.4 | 935.6 | 817.8 | 783.3 | 774.7 | 786.2 | 802.0 |
| 27.5° | 8757.0 | 5300.5 | 3018.2 | 1789.3 | 1075.0 | 855.1 | 777.5 | 741.6 | 747.4 | 761.7 | 776.1 |
| 30° | 9594.9 | 5523.3 | 2873.0 | 1614.0 | 1013.2 | 859.5 | 777.5 | 728.7 | 722.9 | 725.8 | 730.1 |
| 32.5° | 10346.6 | 5674.2 | 2703.4 | 1447.3 | 873.8 | 763.2 | 725.8 | 718.6 | 687.0 | 675.5 | 676.9 |
| 35° | 10994.8 | 5674.2 | 2601.4 | 1349.6 | 783.3 | 676.9 | 616.6 | 580.6 | 564.8 | 566.3 | 582.1 |
| 37.5° | 11620.0 | 5560.6 | 2551.1 | 1294.9 | 734.4 | 643.9 | 590.7 | 559.1 | 537.5 | 533.2 | 536.1 |
| 40° | 12171.9 | 5395.3 | 2493.6 | 1271.9 | 697.1 | 623.8 | 573.5 | 547.6 | 524.6 | 517.4 | 518.8 |
| 42.5° | 12614.5 | 5261.7 | 2430.3 | 1241.8 | 674.1 | 609.4 | 562.0 | 539.0 | 513.1 | 505.9 | 504.5 |
| 45° | 13093.1 | 5217.1 | 2347.0 | 1181.4 | 685.6 | 610.8 | 559.1 | 534.6 | 508.8 | 500.2 | 497.3 |
| 47.5° | 13724.1 | 5356.5 | 2260.8 | 1109.5 | 710.0 | 618.0 | 563.4 | 534.6 | 507.3 | 500.2 | 497.3 |
| 50° | 14518.9 | 5684.2 | 2151.5 | 1004.6 | 685.6 | 638.1 | 562.0 | 530.3 | 507.3 | 500.2 | 494.4 |
| 52.5° | 15539.3 | 6126.9 | 2007.8 | 883.9 | 671.2 | 687.0 | 559.1 | 521.7 | 500.2 | 490.1 | 480.0 |
| 55° | 16779.6 | 6489.1 | 1836.8 | 784.7 | 638.1 | 674.1 | 554.8 | 511.7 | 488.7 | 474.3 | 465.7 |
| 57.5° | 17687.9 | 6619.9 | 1616.9 | 720.1 | 592.1 | 652.5 | 549.0 | 498.7 | 474.3 | 462.8 | 451.3 |
| 60° | 17508.3 | 6366.9 | 1431.5 | 679.8 | 564.8 | 589.3 | 544.7 | 487.2 | 461.3 | 452.7 | 442.7 |
| 62.5° | 16069.6 | 5705.8 | 1312.2 | 661.1 | 547.6 | 537.5 | 549.0 | 475.7 | 449.9 | 441.2 | 438.4 |
| 65° | 13912.3 | 4729.9 | 1264.8 | 656.8 | 533.2 | 507.3 | 510.2 | 462.8 | 436.9 | 429.7 | 426.9 |
| 67.5° | 11476.2 | 3817.3 | 1223.1 | 671.2 | 514.5 | 485.8 | 471.4 | 445.5 | 424.0 | 416.8 | 411.0 |
| 70° | 9050.2 | 3174.8 | 1204.4 | 662.6 | 491.5 | 464.2 | 448.4 | 426.9 | 408.2 | 401.0 | 396.7 |
| 72.5° | 7288.2 | 2681.9 | 1194.3 | 653.9 | 461.3 | 435.5 | 421.1 | 402.4 | 382.3 | 379.4 | 375.1 |
| 75° | 6167.1 | 2108.4 | 1093.7 | 626.6 | 426.9 | 401.0 | 390.9 | 373.7 | 353.6 | 353.6 | 350.7 |
| 77.5° | 4757.2 | 1524.9 | 909.8 | 554.8 | 390.9 | 362.2 | 353.6 | 340.6 | 317.6 | 321.9 | 320.5 |
| 80° | 3514.0 | 994.6 | 711.4 | 459.9 | 346.4 | 319.1 | 314.8 | 301.8 | 277.4 | 283.1 | 283.1 |
| 82.5° | 2407.4 | 652.5 | 511.7 | 376.6 | 296.1 | 270.2 | 270.2 | 257.3 | 230.0 | 232.8 | 241.5 |
| 85° | 1208.7 | 448.4 | 382.3 | 291.8 | 230.0 | 217.0 | 217.0 | 207.0 | 179.7 | 181.1 | 192.6 |
| 87.5° | 367.9 | 270.2 | 253.0 | 208.4 | 165.3 | 162.4 | 155.2 | 148.0 | 130.8 | 129.4 | 136.5 |
| 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-SLL-7050

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 |
| 2.5° | 7618.7 | 7536.8 | 7437.6 | 7219.2 | 7145.9 | 7141.6 | 7207.7 | 7138.7 | 7270.9 | 7214.9 | 7276.7 |
| 5° | 6144.1 | 6063.7 | 5953.0 | 5674.2 | 5504.6 | 5389.6 | 5335.0 | 5174.0 | 5290.4 | 5205.6 | 5276.1 |
| 7.5° | 4518.6 | 4537.3 | 4464.0 | 4300.2 | 3930.8 | 3745.4 | 3636.2 | 3538.4 | 3623.2 | 3614.6 | 3749.7 |
| 10° | 3176.3 | 3226.6 | 3174.8 | 3009.6 | 2710.6 | 2608.6 | 2628.7 | 2667.5 | 2778.2 | 2835.6 | 3044.0 |
| 12.5° | 2286.6 | 2283.8 | 2250.7 | 2102.7 | 1905.8 | 1917.3 | 1999.2 | 2066.7 | 2168.8 | 2229.1 | 2441.8 |
| 15° | 1707.4 | 1681.6 | 1667.2 | 1546.5 | 1434.4 | 1458.8 | 1499.0 | 1506.2 | 1570.9 | 1606.8 | 1779.3 |
| 17.5° | 1290.6 | 1303.6 | 1319.4 | 1233.1 | 1148.3 | 1132.5 | 1100.9 | 1062.1 | 1080.8 | 1088.0 | 1174.2 |
| 20° | 1024.7 | 1076.5 | 1115.3 | 1054.9 | 968.7 | 922.7 | 882.5 | 856.6 | 856.6 | 855.1 | 879.6 |
| 22.5° | 895.4 | 932.8 | 974.4 | 932.8 | 855.1 | 814.9 | 791.9 | 771.8 | 768.9 | 768.9 | 791.9 |
| 25° | 825.0 | 852.3 | 892.5 | 863.8 | 806.3 | 776.1 | 754.5 | 728.7 | 718.6 | 715.7 | 731.5 |
| 27.5° | 790.5 | 802.0 | 822.1 | 796.2 | 747.4 | 733.0 | 727.2 | 704.2 | 691.3 | 684.1 | 699.9 |
| 30° | 731.5 | 728.7 | 730.1 | 704.2 | 665.4 | 664.0 | 674.1 | 678.4 | 674.1 | 672.6 | 697.1 |
| 32.5° | 676.9 | 671.2 | 669.7 | 646.8 | 610.8 | 602.2 | 610.8 | 619.4 | 629.5 | 643.9 | 672.6 |
| 35° | 607.9 | 622.3 | 630.9 | 610.8 | 567.7 | 541.8 | 531.8 | 516.0 | 507.3 | 507.3 | 540.4 |
| 37.5° | 553.3 | 586.4 | 599.3 | 580.6 | 533.2 | 497.3 | 480.0 | 477.2 | 478.6 | 484.3 | 516.0 |
| 40° | 534.6 | 559.1 | 570.6 | 551.9 | 504.5 | 471.4 | 461.3 | 458.5 | 461.3 | 470.0 | 501.6 |
| 42.5° | 523.2 | 540.4 | 539.0 | 516.0 | 477.2 | 454.2 | 448.4 | 445.5 | 448.4 | 457.0 | 491.5 |
| 45° | 513.1 | 524.6 | 513.1 | 485.8 | 449.9 | 438.4 | 439.8 | 438.4 | 441.2 | 449.9 | 482.9 |
| 47.5° | 504.5 | 508.8 | 494.4 | 467.1 | 429.7 | 426.9 | 432.6 | 436.9 | 439.8 | 447.0 | 481.5 |
| 50° | 491.5 | 491.5 | 478.6 | 449.9 | 412.5 | 413.9 | 421.1 | 431.2 | 432.6 | 441.2 | 468.5 |
| 52.5° | 475.7 | 474.3 | 465.7 | 438.4 | 398.1 | 402.4 | 402.4 | 413.9 | 416.8 | 426.9 | 455.6 |
| 55° | 462.8 | 459.9 | 455.6 | 429.7 | 385.2 | 392.4 | 388.1 | 392.4 | 399.5 | 409.6 | 441.2 |
| 57.5° | 451.3 | 445.5 | 445.5 | 422.5 | 375.1 | 378.0 | 367.9 | 373.7 | 382.3 | 390.9 | 424.0 |
| 60° | 439.8 | 434.0 | 436.9 | 412.5 | 359.3 | 356.4 | 352.1 | 363.6 | 366.5 | 376.6 | 409.6 |
| 62.5° | 426.9 | 422.5 | 424.0 | 401.0 | 347.8 | 340.6 | 340.6 | 350.7 | 352.1 | 366.5 | 398.1 |
| 65° | 416.8 | 411.0 | 409.6 | 389.5 | 334.9 | 326.3 | 330.6 | 334.9 | 337.7 | 352.1 | 382.3 |
| 67.5° | 406.7 | 395.2 | 395.2 | 379.4 | 320.5 | 311.9 | 320.5 | 319.1 | 323.4 | 336.3 | 360.7 |
| 70° | 393.8 | 378.0 | 379.4 | 372.2 | 306.1 | 296.1 | 303.3 | 301.8 | 304.7 | 313.3 | 337.7 |
| 72.5° | 373.7 | 360.7 | 363.6 | 360.7 | 291.8 | 277.4 | 280.3 | 280.3 | 280.3 | 287.4 | 313.3 |
| 75° | 347.8 | 337.7 | 346.4 | 353.6 | 274.5 | 254.4 | 257.3 | 257.3 | 253.0 | 257.3 | 288.9 |
| 77.5° | 316.2 | 310.4 | 339.2 | 329.1 | 254.4 | 230.0 | 230.0 | 227.1 | 218.5 | 224.2 | 258.7 |
| 80° | 281.7 | 277.4 | 313.3 | 275.9 | 231.4 | 199.8 | 196.9 | 189.7 | 181.1 | 185.4 | 219.9 |
| 82.5° | 245.8 | 241.5 | 263.0 | 211.3 | 199.8 | 165.3 | 158.1 | 145.2 | 136.5 | 140.8 | 172.5 |
| 85° | 201.2 | 201.2 | 202.6 | 159.5 | 152.3 | 126.5 | 117.9 | 100.6 | 90.5 | 93.4 | 123.6 |
| 87.5° | 143.7 | 148.0 | 136.5 | 109.2 | 90.5 | 70.4 | 64.7 | 54.6 | 46.0 | 53.2 | 64.7 |
| 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° | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 | 8833.2 |
| 2.5° | 7592.9 | 7751.0 | 7930.6 | 8160.6 | 8357.5 | 8680.8 | 8991.3 | 9178.1 |
| 5° | 5677.0 | 5940.1 | 6267.7 | 6688.8 | 7081.2 | 7670.5 | 8255.4 | 8630.5 |
| 7.5° | 4063.0 | 4344.7 | 4698.3 | 5224.3 | 5779.1 | 6530.8 | 7304.0 | 7752.4 |
| 10° | 3361.7 | 3650.6 | 3948.1 | 4303.1 | 4757.2 | 5575.0 | 6489.1 | 6995.0 |
| 12.5° | 2781.0 | 3090.0 | 3410.5 | 3784.2 | 4205.3 | 4935.4 | 5988.9 | 6571.0 |
| 15° | 2128.5 | 2473.5 | 2851.5 | 3324.3 | 3851.8 | 4695.4 | 5865.3 | 6497.7 |
| 17.5° | 1458.8 | 1844.0 | 2308.2 | 2891.7 | 3537.0 | 4617.8 | 6086.7 | 6815.3 |
| 20° | 1004.6 | 1284.9 | 1780.7 | 2464.8 | 3240.9 | 4607.7 | 6512.1 | 7424.7 |
| 22.5° | 840.8 | 965.8 | 1328.0 | 2072.5 | 3018.2 | 4731.3 | 7171.8 | 8279.9 |
| 25° | 777.5 | 852.3 | 1060.7 | 1731.9 | 2855.8 | 5015.9 | 8080.1 | 9386.5 |
| 27.5° | 740.2 | 807.7 | 962.9 | 1509.1 | 2727.9 | 5346.5 | 8964.0 | 10458.7 |
| 30° | 754.5 | 823.5 | 935.6 | 1395.5 | 2554.0 | 5622.4 | 9748.7 | 11295.2 |
| 32.5° | 679.8 | 710.0 | 802.0 | 1294.9 | 2428.9 | 5853.8 | 10435.7 | 11987.9 |
| 35° | 579.2 | 632.4 | 715.7 | 1247.5 | 2431.8 | 6009.0 | 11184.5 | 12873.2 |
| 37.5° | 551.9 | 605.1 | 665.4 | 1230.3 | 2464.8 | 6174.3 | 12044.0 | 13910.9 |
| 40° | 534.6 | 583.5 | 635.3 | 1220.2 | 2496.5 | 6325.2 | 12886.2 | 14937.1 |
| 42.5° | 523.2 | 567.7 | 632.4 | 1185.7 | 2512.3 | 6460.3 | 13578.9 | 15809.5 |
| 45° | 521.7 | 567.7 | 643.9 | 1151.2 | 2536.7 | 6605.5 | 14159.5 | 16454.8 |
| 47.5° | 523.2 | 586.4 | 622.3 | 1109.5 | 2536.7 | 6848.4 | 14840.8 | 17031.1 |
| 50° | 517.4 | 618.0 | 599.3 | 1050.6 | 2477.8 | 7308.3 | 15775.0 | 17802.9 |
| 52.5° | 514.5 | 613.7 | 554.8 | 960.1 | 2375.7 | 8038.4 | 16972.2 | 18866.5 |
| 55° | 507.3 | 592.1 | 523.2 | 825.0 | 2256.4 | 8834.6 | 18254.2 | 20124.0 |
| 57.5° | 500.2 | 524.6 | 505.9 | 707.1 | 2072.5 | 9395.1 | 19136.7 | 21105.7 |
| 60° | 560.5 | 458.5 | 491.5 | 649.6 | 1826.7 | 9548.9 | 19102.2 | 21496.6 |
| 62.5° | 518.8 | 429.7 | 472.8 | 636.7 | 1654.2 | 9117.8 | 18219.7 | 21285.3 |
| 65° | 406.7 | 411.0 | 454.2 | 674.1 | 1608.3 | 7975.2 | 16656.0 | 20309.4 |
| 67.5° | 372.2 | 392.4 | 435.5 | 721.5 | 1612.6 | 6385.6 | 14319.1 | 18183.8 |
| 70° | 350.7 | 372.2 | 413.9 | 745.9 | 1624.1 | 4760.1 | 11321.0 | 14810.6 |
| 72.5° | 326.3 | 344.9 | 389.5 | 750.2 | 1549.3 | 3458.0 | 8725.4 | 10889.9 |
| 75° | 297.5 | 314.8 | 355.0 | 653.9 | 1283.4 | 2398.7 | 6674.5 | 7450.6 |
| 77.5° | 264.4 | 277.4 | 311.9 | 504.5 | 952.9 | 1535.0 | 5010.2 | 5442.8 |
| 80° | 225.6 | 232.8 | 261.6 | 369.4 | 652.5 | 960.1 | 3963.9 | 4367.7 |
| 82.5° | 181.1 | 184.0 | 202.6 | 277.4 | 424.0 | 616.6 | 2654.6 | 3029.7 |
| 85° | 127.9 | 127.9 | 139.4 | 201.2 | 288.9 | 390.9 | 1441.5 | 1598.2 |
| 87.5° | 60.4 | 61.8 | 61.8 | 110.7 | 150.9 | 198.3 | 332.0 | 204.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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