

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: P266893

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-AFL-7027-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17470.4 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

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

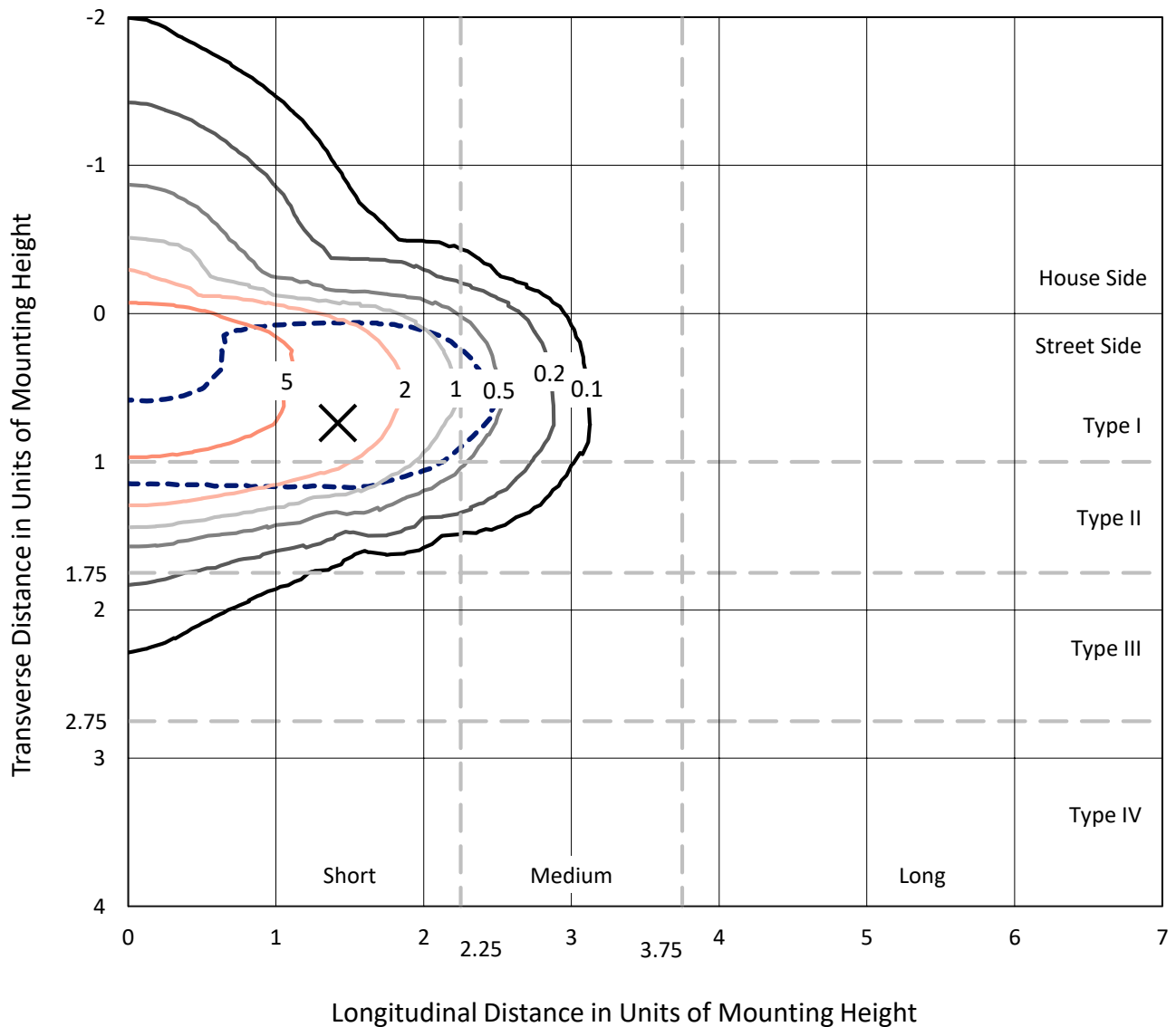


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

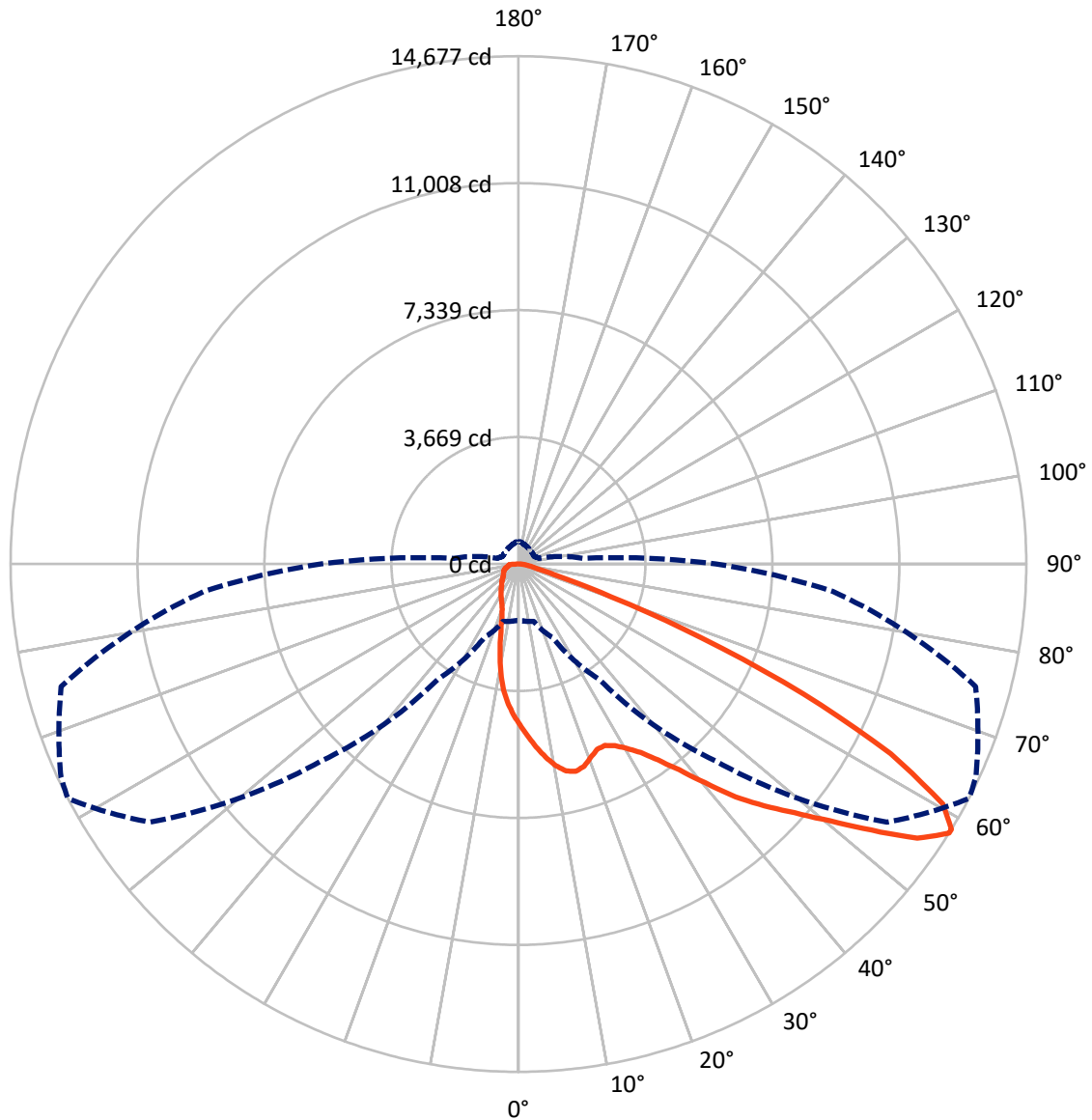


Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2664.3 | 0.0 | 2664.3 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 14806.1 | 0.0 | 14806.1 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 17470.4 | 0.0 | 17470.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 415.0 | 2.4 |
| 10°-20° | 1060.9 | 6.1 |
| 20°-30° | 1715.0 | 9.8 |
| 30°-40° | 2722.5 | 15.6 |
| 40°-50° | 3983.6 | 22.8 |
| 50°-60° | 4166.5 | 23.8 |
| 60°-70° | 2461.6 | 14.1 |
| 70°-80° | 693.4 | 4.0 |
| 80°-90° | 251.8 | 1.4 |
| 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° | 17470.4 | 100.0 |
| 0°-180° | 17470.4 | 100.0 |

Coefficient of Utilization



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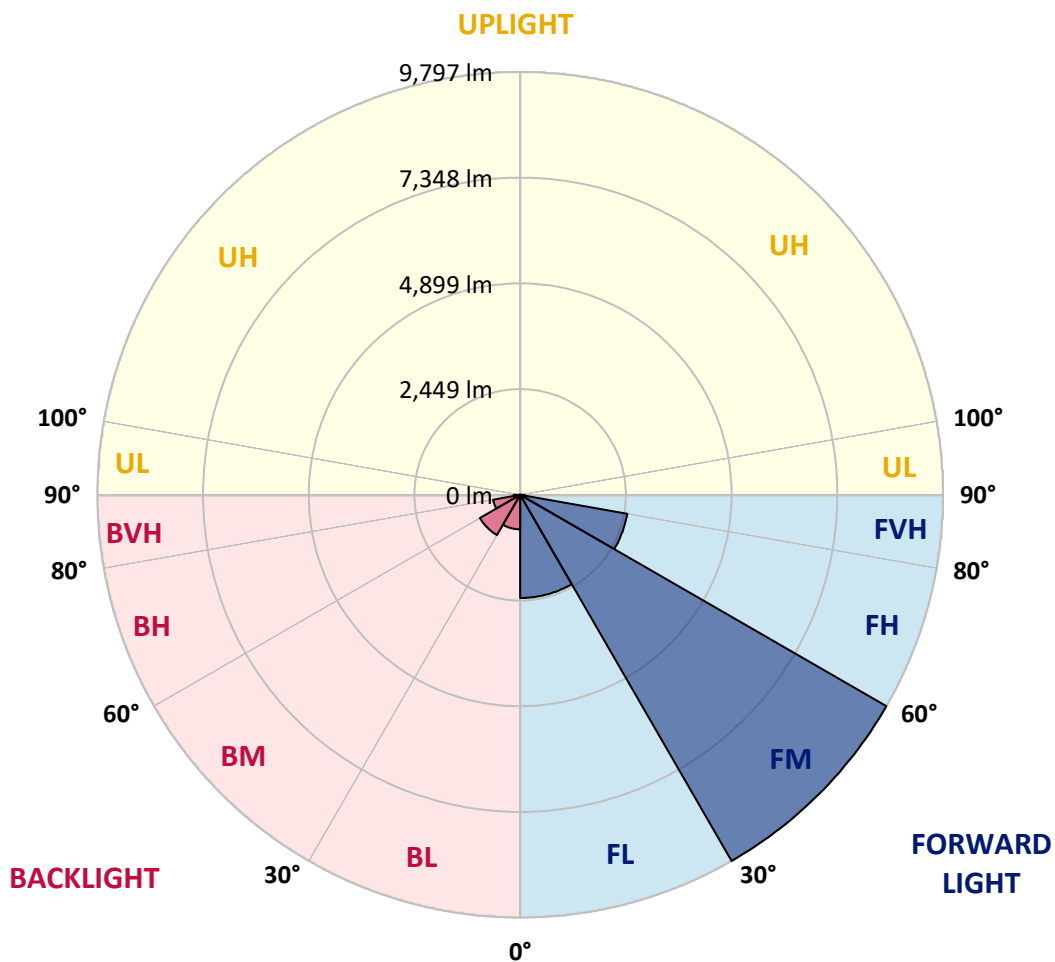
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2390.2 | 13.7 | | | |
| FM (30°-60°) | 9797.3 | 56.1 | | | |
| FH (60°-80°) | 2519.3 | 14.4 | | | G2/5000 |
| FVH (80°-90°) | 99.3 | 0.6 | | | G1/100 |
| BL (0°-30°) | 800.8 | 4.6 | B2/1000 | | |
| BM (30°-60°) | 1075.4 | 6.2 | B2/2500 | | |
| BH (60°-80°) | 635.7 | 3.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 152.4 | 0.9 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 62.5° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 |
| 2.5° | 5302.9 | 5260.1 | 5232.9 | 5209.1 | 5177.8 | 5111.1 | 5021.5 | 4964.8 | 4935.9 | 4838.1 | 4722.1 |
| 5° | 5822.9 | 5784.9 | 5757.0 | 5724.9 | 5668.9 | 5564.6 | 5419.7 | 5304.5 | 5247.8 | 5052.0 | 4819.9 |
| 7.5° | 5701.1 | 5716.8 | 5765.2 | 5849.9 | 5922.3 | 5908.4 | 5779.2 | 5632.8 | 5558.0 | 5285.5 | 4933.5 |
| 10° | 4967.3 | 4994.3 | 5078.3 | 5276.6 | 5597.3 | 5926.5 | 6026.9 | 5925.7 | 5849.9 | 5516.9 | 5050.4 |
| 12.5° | 4819.9 | 4819.1 | 4825.8 | 4878.3 | 5069.2 | 5532.4 | 6035.1 | 6137.1 | 6091.9 | 5737.2 | 5169.7 |
| 15° | 4880.0 | 4881.7 | 4876.8 | 4898.9 | 4958.1 | 5141.7 | 5783.3 | 6218.4 | 6250.5 | 5959.4 | 5293.1 |
| 17.5° | 5038.1 | 5033.9 | 5015.0 | 5015.0 | 5036.3 | 5107.9 | 5487.1 | 6142.8 | 6290.9 | 6155.9 | 5401.6 |
| 20° | 5302.9 | 5284.0 | 5233.7 | 5187.7 | 5164.6 | 5203.3 | 5365.3 | 5968.3 | 6221.0 | 6327.9 | 5491.2 |
| 22.5° | 5623.7 | 5608.9 | 5527.5 | 5428.7 | 5349.0 | 5348.1 | 5428.0 | 5816.3 | 6100.0 | 6490.0 | 5566.9 |
| 25° | 6038.3 | 6014.5 | 5893.6 | 5735.6 | 5595.7 | 5542.4 | 5564.6 | 5808.8 | 6034.3 | 6666.1 | 5634.3 |
| 27.5° | 6525.4 | 6481.8 | 6338.6 | 6110.7 | 5905.1 | 5797.3 | 5765.2 | 5942.9 | 6094.3 | 6884.0 | 5728.2 |
| 30° | 7116.1 | 7065.9 | 6882.5 | 6585.5 | 6295.1 | 6118.1 | 6049.8 | 6180.7 | 6293.3 | 7149.8 | 5878.8 |
| 32.5° | 7788.1 | 7715.7 | 7503.5 | 7176.1 | 6794.4 | 6524.6 | 6413.4 | 6494.9 | 6584.5 | 7469.8 | 6067.2 |
| 35° | 8717.0 | 8630.6 | 8323.8 | 7872.0 | 7441.0 | 7070.0 | 6892.2 | 6951.5 | 7038.7 | 7946.9 | 6339.5 |
| 37.5° | 9350.4 | 9311.7 | 9107.7 | 8683.2 | 8214.3 | 7787.3 | 7512.5 | 7547.1 | 7596.4 | 8543.4 | 6688.3 |
| 40° | 9344.7 | 9360.2 | 9364.4 | 9368.6 | 9049.3 | 8640.4 | 8345.2 | 8309.0 | 8299.0 | 9198.3 | 7084.8 |
| 42.5° | 8876.5 | 8940.7 | 9148.0 | 9568.3 | 9762.6 | 9574.9 | 9304.4 | 9199.8 | 9148.0 | 9969.8 | 7505.2 |
| 45° | 8160.1 | 8194.6 | 8582.9 | 9403.8 | 10127.9 | 10500.5 | 10295.7 | 9966.5 | 9872.8 | 10679.1 | 7854.1 |
| 47.5° | 7790.6 | 7828.5 | 8072.8 | 8967.9 | 10123.7 | 11248.2 | 11366.8 | 10739.9 | 10572.1 | 11295.9 | 8155.1 |
| 50° | 6911.2 | 6990.3 | 7297.8 | 8209.4 | 9754.3 | 11592.2 | 12486.4 | 11661.3 | 11314.2 | 11896.6 | 8457.1 |
| 52.5° | 5296.2 | 5418.0 | 5762.7 | 6962.3 | 8817.4 | 11421.9 | 13382.3 | 12778.4 | 12288.2 | 12518.5 | 8716.2 |
| 55° | 3340.8 | 3431.3 | 3720.9 | 4917.1 | 7053.5 | 10535.9 | 13722.0 | 13986.9 | 13550.9 | 13107.4 | 8940.7 |
| 57.5° | 1816.5 | 1856.7 | 1965.3 | 2714.8 | 4588.1 | 8577.0 | 13226.9 | 14674.7 | 14493.8 | 13607.6 | 9110.3 |
| 58° | 1625.7 | 1652.7 | 1720.2 | 2352.8 | 4069.0 | 8041.5 | 13007.2 | 14677.1 | 14586.7 | 13680.8 | 9123.4 |
| 60° | 1206.1 | 1192.1 | 1132.0 | 1342.5 | 2264.7 | 5555.5 | 11679.4 | 14089.7 | 14355.5 | 13770.6 | 9059.1 |
| 62.5° | 1059.6 | 1025.9 | 903.2 | 889.3 | 1101.5 | 2559.4 | 8936.6 | 12069.3 | 12697.1 | 13258.9 | 8669.3 |
| 65° | 995.4 | 959.2 | 801.3 | 750.3 | 794.7 | 1082.6 | 5264.2 | 9051.9 | 9839.0 | 11707.3 | 7672.2 |
| 67.5° | 947.7 | 900.8 | 736.3 | 666.4 | 669.6 | 715.7 | 2110.1 | 5701.1 | 6587.1 | 8888.9 | 5967.6 |
| 70° | 901.7 | 850.7 | 681.2 | 600.5 | 581.7 | 566.0 | 839.0 | 2853.8 | 3657.5 | 5614.6 | 3804.9 |
| 72.5° | 852.3 | 802.0 | 632.6 | 548.8 | 511.8 | 459.8 | 547.8 | 1167.3 | 1630.6 | 2656.4 | 1726.0 |
| 75° | 780.6 | 735.4 | 584.1 | 502.6 | 450.1 | 380.9 | 413.8 | 609.6 | 731.3 | 1057.9 | 831.7 |
| 77.5° | 692.8 | 655.7 | 529.8 | 464.9 | 398.9 | 309.3 | 318.4 | 422.8 | 468.9 | 605.5 | 494.3 |
| 80° | 497.8 | 510.9 | 471.4 | 417.9 | 355.4 | 250.8 | 244.2 | 308.5 | 333.2 | 389.1 | 321.7 |
| 82.5° | 349.6 | 357.0 | 390.0 | 341.4 | 293.7 | 197.4 | 180.2 | 217.2 | 232.0 | 255.8 | 173.6 |
| 85° | 241.0 | 232.8 | 267.3 | 237.7 | 212.3 | 131.6 | 123.3 | 147.2 | 156.3 | 158.8 | 89.7 |
| 87.5° | 144.7 | 144.7 | 154.7 | 127.5 | 114.4 | 68.4 | 66.7 | 83.9 | 89.7 | 85.6 | 49.3 |
| 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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CATALOG NUMBER: GAN-AF-05-LED-U-AFL-7027-600-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 | 4640.6 |
| 2.5° | 4653.0 | 4594.7 | 4470.3 | 4370.9 | 4244.9 | 4114.1 | 4040.9 | 3962.8 | 3909.3 | 3870.6 | 3932.3 |
| 5° | 4688.3 | 4569.0 | 4312.5 | 4069.0 | 3799.9 | 3520.2 | 3307.9 | 3110.6 | 2973.1 | 2887.5 | 2968.2 |
| 7.5° | 4744.3 | 4560.9 | 4152.0 | 3735.7 | 3252.9 | 2787.3 | 2370.9 | 2110.1 | 1957.9 | 1883.0 | 1930.0 |
| 10° | 4808.4 | 4547.7 | 3963.6 | 3284.1 | 2593.0 | 2006.5 | 1695.6 | 1590.2 | 1555.7 | 1541.8 | 1548.3 |
| 12.5° | 4861.9 | 4519.7 | 3732.5 | 2737.9 | 1947.3 | 1584.4 | 1494.8 | 1492.4 | 1499.7 | 1501.3 | 1503.9 |
| 15° | 4899.7 | 4478.6 | 3389.3 | 2168.6 | 1557.3 | 1443.8 | 1438.8 | 1453.6 | 1467.7 | 1473.4 | 1476.6 |
| 17.5° | 4925.2 | 4393.9 | 3001.9 | 1714.4 | 1395.2 | 1375.5 | 1387.1 | 1405.9 | 1420.7 | 1424.8 | 1428.1 |
| 20° | 4922.8 | 4269.6 | 2540.3 | 1429.8 | 1307.3 | 1307.3 | 1326.9 | 1341.8 | 1342.5 | 1337.7 | 1340.1 |
| 22.5° | 4897.3 | 4099.3 | 2092.8 | 1278.4 | 1229.1 | 1243.1 | 1262.7 | 1248.9 | 1191.2 | 1153.3 | 1155.8 |
| 25° | 4854.5 | 3896.0 | 1709.6 | 1182.2 | 1156.7 | 1181.4 | 1175.6 | 1070.3 | 988.0 | 950.9 | 950.9 |
| 27.5° | 4816.7 | 3655.9 | 1415.0 | 1098.3 | 1084.3 | 1114.6 | 1012.7 | 917.3 | 882.8 | 865.4 | 859.7 |
| 30° | 4789.6 | 3396.9 | 1218.5 | 1017.6 | 1016.1 | 993.7 | 878.6 | 852.3 | 846.6 | 832.5 | 827.6 |
| 32.5° | 4796.1 | 3134.4 | 1092.5 | 947.0 | 952.7 | 850.7 | 814.5 | 820.2 | 815.2 | 800.5 | 793.8 |
| 35° | 4850.4 | 2885.0 | 1010.2 | 882.8 | 865.4 | 768.4 | 776.6 | 787.3 | 785.7 | 765.0 | 758.4 |
| 37.5° | 4947.5 | 2649.0 | 955.9 | 829.2 | 755.2 | 727.3 | 740.5 | 756.8 | 752.7 | 738.8 | 733.8 |
| 40° | 5049.6 | 2426.9 | 911.5 | 787.3 | 690.2 | 699.3 | 710.7 | 719.8 | 723.9 | 728.0 | 724.8 |
| 42.5° | 5149.1 | 2194.9 | 857.3 | 744.5 | 663.0 | 672.9 | 678.0 | 686.9 | 709.1 | 724.8 | 723.9 |
| 45° | 5208.4 | 1976.9 | 801.3 | 683.6 | 641.7 | 647.5 | 644.2 | 662.2 | 689.4 | 715.0 | 715.7 |
| 47.5° | 5274.0 | 1807.4 | 756.8 | 627.6 | 621.1 | 625.2 | 615.3 | 633.5 | 658.1 | 689.4 | 692.8 |
| 50° | 5353.9 | 1706.2 | 721.5 | 583.3 | 593.2 | 593.2 | 590.6 | 607.2 | 641.7 | 678.0 | 684.5 |
| 52.5° | 5444.4 | 1686.5 | 691.9 | 551.2 | 565.2 | 564.3 | 566.8 | 591.5 | 629.4 | 664.7 | 670.5 |
| 55° | 5554.6 | 1739.9 | 659.7 | 527.3 | 538.1 | 541.3 | 549.6 | 577.5 | 609.6 | 650.0 | 652.3 |
| 57.5° | 5682.9 | 1848.5 | 634.3 | 508.4 | 513.3 | 524.0 | 537.1 | 562.7 | 597.3 | 641.7 | 644.2 |
| 58° | 5704.3 | 1871.6 | 630.3 | 506.7 | 508.4 | 520.7 | 535.6 | 560.3 | 594.8 | 643.4 | 645.8 |
| 60° | 5705.1 | 1948.1 | 621.1 | 499.4 | 489.4 | 510.1 | 526.4 | 551.2 | 590.6 | 649.0 | 654.9 |
| 62.5° | 5502.7 | 1947.3 | 614.5 | 488.7 | 469.8 | 495.2 | 514.2 | 542.9 | 586.6 | 663.0 | 674.5 |
| 65° | 4845.5 | 1769.5 | 583.3 | 472.1 | 454.2 | 482.1 | 503.5 | 537.1 | 598.1 | 723.9 | 731.3 |
| 67.5° | 3789.9 | 1450.4 | 524.9 | 449.2 | 433.5 | 468.9 | 496.9 | 536.4 | 610.4 | 738.0 | 742.9 |
| 70° | 2505.8 | 1085.2 | 460.7 | 422.8 | 412.1 | 453.3 | 500.1 | 564.3 | 596.5 | 708.4 | 695.2 |
| 72.5° | 1300.7 | 761.9 | 408.9 | 390.0 | 387.4 | 439.4 | 547.8 | 561.0 | 582.5 | 666.4 | 650.0 |
| 75° | 682.8 | 529.0 | 363.6 | 353.8 | 357.9 | 435.9 | 646.6 | 546.3 | 564.3 | 637.5 | 668.8 |
| 77.5° | 417.9 | 427.0 | 324.9 | 320.9 | 329.0 | 426.2 | 645.8 | 527.3 | 538.1 | 586.6 | 621.1 |
| 80° | 279.7 | 346.3 | 295.4 | 296.1 | 301.9 | 390.0 | 579.9 | 497.8 | 505.9 | 554.4 | 589.8 |
| 82.5° | 176.8 | 204.9 | 268.1 | 282.2 | 274.8 | 321.7 | 492.8 | 453.3 | 464.9 | 634.3 | 670.5 |
| 85° | 89.7 | 128.4 | 232.8 | 271.5 | 247.7 | 225.5 | 399.8 | 397.3 | 403.1 | 457.3 | 478.0 |
| 87.5° | 41.1 | 70.7 | 181.7 | 237.0 | 186.8 | 140.7 | 290.4 | 294.6 | 317.6 | 324.9 | 324.9 |
| 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)