

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: P194409

Luminaire Tested: **GAN-AF-01-LED-U-SL2-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-SL2-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4022 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

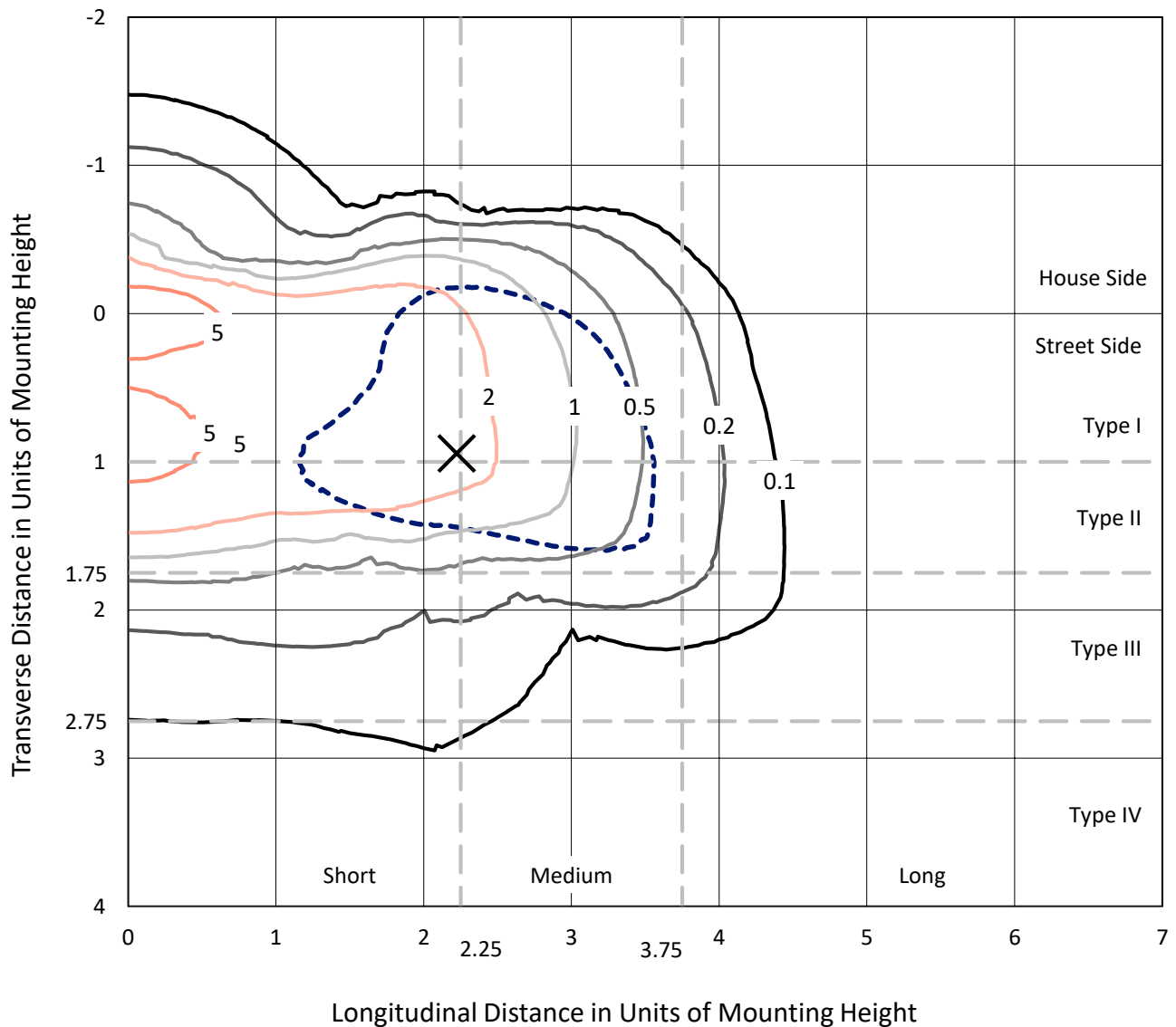
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

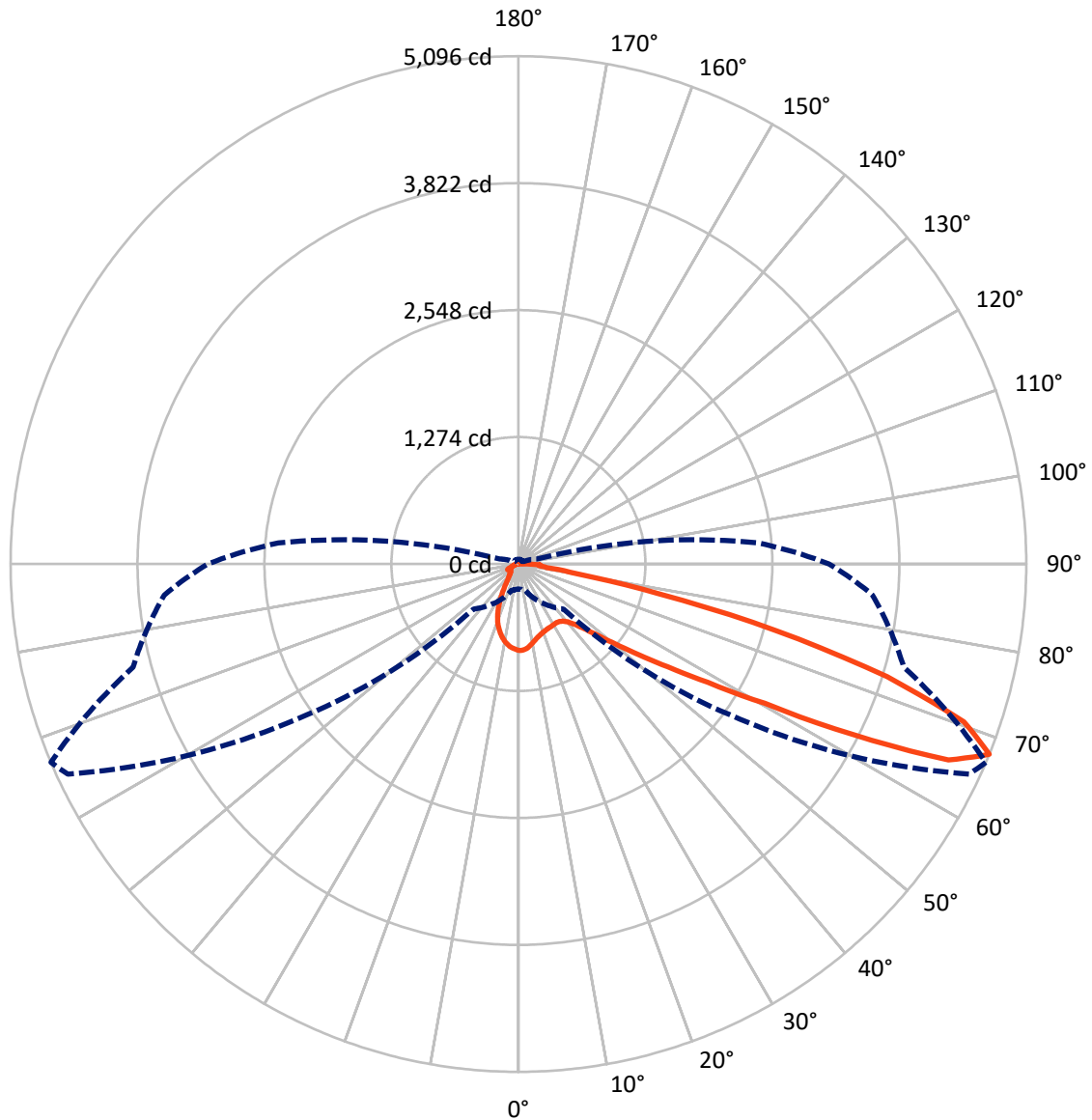
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 666.4 | 0.0 | 666.4 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 3355.6 | 0.0 | 3355.6 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 4022.0 | 0.0 | 4022.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 74.0 | 1.8 |
| 10°-20° | 171.3 | 4.3 |
| 20°-30° | 232.1 | 5.8 |
| 30°-40° | 330.0 | 8.2 |
| 40°-50° | 552.1 | 13.7 |
| 50°-60° | 873.5 | 21.7 |
| 60°-70° | 1112.7 | 27.7 |
| 70°-80° | 582.8 | 14.5 |
| 80°-90° | 93.5 | 2.3 |
| 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° | 4022.0 | 100.0 |
| 0°-180° | 4022.0 | 100.0 |

Coefficient of Utilization



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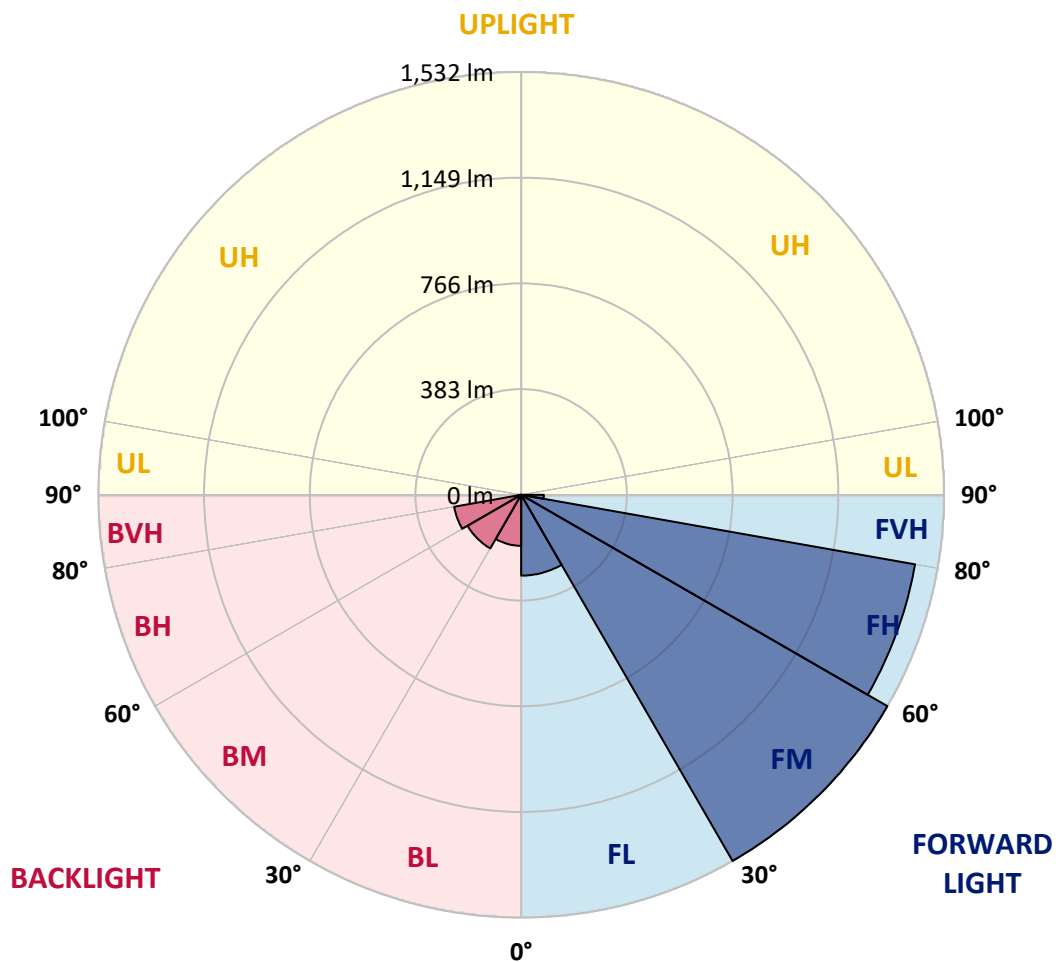
CATALOG NUMBER: GAN-AF-01-LED-U-SL2-7060-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 292.7 | 7.3 | | | |
| FM | (30°-60°) | 1531.7 | 38.1 | | | |
| FH | (60°-80°) | 1449.0 | 36.0 | | | G1/1800 |
| FVH | (80°-90°) | 82.2 | 2.0 | | | G1/100 |
| BL | (0°-30°) | 184.7 | 4.6 | B1/500 | | |
| BM | (30°-60°) | 223.9 | 5.6 | B1/1000 | | |
| BH | (60°-80°) | 246.5 | 6.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 11.3 | 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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 867.5 | 867.5 | 867.5 | 867.5 | 867.5 | 867.5 | 867.5 | 867.5 | 867.5 | 867.5 | 867.5 |
| 2.5° | 831.8 | 833.2 | 837.6 | 840.4 | 852.9 | 858.2 | 862.0 | 865.8 | 866.3 | 868.1 | 866.3 |
| 5° | 744.6 | 747.5 | 755.7 | 764.8 | 789.0 | 808.0 | 828.1 | 848.9 | 852.7 | 866.1 | 869.9 |
| 7.5° | 676.9 | 676.1 | 682.9 | 693.8 | 718.6 | 745.0 | 780.1 | 821.5 | 829.7 | 860.0 | 874.7 |
| 10° | 627.5 | 627.0 | 634.1 | 645.4 | 669.0 | 694.0 | 733.7 | 790.4 | 801.9 | 850.3 | 879.2 |
| 12.5° | 591.1 | 591.2 | 598.4 | 610.9 | 634.9 | 660.1 | 700.3 | 760.2 | 774.9 | 839.0 | 884.0 |
| 15° | 566.9 | 568.4 | 574.2 | 587.5 | 610.9 | 636.1 | 675.5 | 737.6 | 754.1 | 830.0 | 889.4 |
| 17.5° | 558.7 | 561.3 | 563.3 | 573.0 | 593.0 | 618.2 | 656.9 | 721.0 | 738.4 | 823.9 | 894.1 |
| 20° | 566.3 | 569.2 | 565.5 | 568.8 | 581.5 | 603.7 | 642.2 | 707.9 | 725.7 | 817.0 | 894.7 |
| 22.5° | 598.6 | 601.4 | 590.3 | 580.5 | 579.7 | 593.2 | 630.1 | 697.6 | 716.0 | 811.8 | 894.9 |
| 25° | 655.5 | 657.3 | 638.7 | 616.0 | 594.0 | 589.5 | 621.6 | 690.4 | 710.1 | 807.2 | 891.1 |
| 27.5° | 725.3 | 726.7 | 705.3 | 672.0 | 627.7 | 598.4 | 618.6 | 686.3 | 706.7 | 803.3 | 884.8 |
| 30° | 810.2 | 816.8 | 788.0 | 746.0 | 681.5 | 624.8 | 624.6 | 684.1 | 702.9 | 796.5 | 872.3 |
| 32.5° | 897.1 | 899.9 | 880.0 | 837.4 | 753.9 | 671.2 | 641.2 | 685.7 | 701.9 | 788.4 | 856.4 |
| 35° | 985.2 | 988.7 | 975.8 | 941.5 | 852.9 | 739.2 | 673.8 | 695.0 | 708.1 | 785.6 | 845.3 |
| 37.5° | 1099.2 | 1104.0 | 1086.1 | 1046.4 | 973.3 | 831.4 | 727.9 | 718.4 | 726.9 | 793.6 | 841.9 |
| 40° | 1279.5 | 1277.3 | 1225.1 | 1166.0 | 1104.9 | 949.4 | 805.3 | 758.1 | 763.0 | 819.1 | 852.3 |
| 42.5° | 1489.3 | 1484.0 | 1394.1 | 1301.3 | 1249.7 | 1092.3 | 907.6 | 826.9 | 825.9 | 869.5 | 888.6 |
| 45° | 1656.7 | 1652.4 | 1571.4 | 1457.0 | 1415.7 | 1254.9 | 1039.9 | 929.4 | 922.1 | 949.4 | 955.6 |
| 47.5° | 1747.4 | 1747.6 | 1701.0 | 1607.5 | 1606.5 | 1461.6 | 1209.9 | 1077.8 | 1065.1 | 1078.0 | 1071.4 |
| 50° | 1715.6 | 1719.8 | 1714.8 | 1685.1 | 1780.7 | 1732.5 | 1431.8 | 1284.6 | 1259.1 | 1271.8 | 1246.6 |
| 52.5° | 1562.1 | 1567.5 | 1596.8 | 1642.4 | 1853.9 | 2060.0 | 1757.9 | 1541.7 | 1511.9 | 1507.4 | 1479.4 |
| 55° | 1290.0 | 1296.5 | 1356.4 | 1480.4 | 1793.0 | 2279.9 | 2272.4 | 1869.3 | 1821.9 | 1778.9 | 1767.0 |
| 57.5° | 889.2 | 900.1 | 996.5 | 1180.5 | 1596.0 | 2346.4 | 2885.0 | 2336.4 | 2240.0 | 2089.7 | 2092.5 |
| 60° | 501.2 | 513.9 | 627.5 | 794.7 | 1198.6 | 2274.2 | 3351.1 | 3043.9 | 2840.4 | 2453.7 | 2474.3 |
| 62.5° | 318.7 | 332.4 | 418.7 | 552.2 | 719.2 | 1885.4 | 3542.1 | 4027.5 | 3769.0 | 2902.3 | 2922.5 |
| 65° | 258.0 | 264.0 | 304.6 | 455.8 | 522.2 | 1135.9 | 3397.2 | 4837.7 | 4741.3 | 3471.7 | 3377.3 |
| 67.5° | 251.9 | 253.9 | 274.9 | 382.6 | 500.8 | 638.5 | 2709.7 | 4989.2 | 5096.1 | 4003.5 | 3566.7 |
| 70° | 248.9 | 255.9 | 309.8 | 365.1 | 479.6 | 538.5 | 1628.4 | 4573.9 | 4742.7 | 4142.5 | 3314.6 |
| 72.5° | 120.8 | 120.4 | 155.9 | 330.2 | 540.3 | 558.5 | 836.6 | 3700.8 | 3870.2 | 3588.9 | 2723.8 |
| 75° | 97.4 | 89.1 | 85.1 | 121.0 | 519.5 | 576.8 | 533.1 | 2546.5 | 2669.1 | 2406.3 | 1674.4 |
| 77.5° | 92.4 | 82.5 | 75.6 | 75.8 | 219.6 | 611.7 | 451.6 | 1409.4 | 1445.1 | 1086.9 | 458.8 |
| 80° | 76.6 | 67.4 | 62.5 | 70.4 | 106.3 | 582.5 | 488.3 | 637.9 | 585.3 | 267.0 | 152.7 |
| 82.5° | 53.2 | 48.4 | 47.0 | 59.1 | 85.1 | 415.1 | 567.8 | 342.7 | 287.4 | 133.7 | 94.2 |
| 85° | 33.9 | 29.0 | 32.1 | 43.0 | 66.2 | 191.6 | 584.9 | 267.2 | 212.4 | 84.9 | 53.2 |
| 87.5° | 15.7 | 12.7 | 15.9 | 23.8 | 43.2 | 66.0 | 556.5 | 300.1 | 218.8 | 44.8 | 33.5 |
| 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-01-LED-U-SL2-7060-600

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 867.5 | 867.5 | 867.5 | 867.5 | 867.5 | 867.5 | 867.5 | 867.5 | 867.5 | 867.5 | 867.5 |
| 2.5° | 867.9 | 864.2 | 861.2 | 855.6 | 849.5 | 843.5 | 838.2 | 831.4 | 829.5 | 827.7 | 830.4 |
| 5° | 870.7 | 866.9 | 856.0 | 839.0 | 820.1 | 802.5 | 784.8 | 769.8 | 760.4 | 755.3 | 758.3 |
| 7.5° | 874.9 | 869.5 | 846.9 | 815.6 | 781.7 | 750.7 | 718.8 | 693.2 | 674.4 | 665.4 | 668.0 |
| 10° | 878.6 | 868.3 | 831.4 | 784.4 | 734.8 | 688.8 | 638.5 | 596.8 | 565.9 | 549.6 | 553.6 |
| 12.5° | 880.2 | 863.8 | 809.8 | 745.6 | 677.5 | 610.1 | 535.9 | 473.6 | 429.2 | 412.9 | 409.6 |
| 15° | 881.8 | 858.6 | 786.0 | 701.3 | 608.3 | 512.9 | 409.0 | 334.4 | 297.5 | 289.4 | 287.6 |
| 17.5° | 882.2 | 849.7 | 759.0 | 653.3 | 527.2 | 397.3 | 279.7 | 232.3 | 232.5 | 245.5 | 247.1 |
| 20° | 878.0 | 836.4 | 726.3 | 593.6 | 430.0 | 274.7 | 192.0 | 183.9 | 213.8 | 246.5 | 250.5 |
| 22.5° | 868.5 | 818.7 | 689.2 | 524.0 | 318.7 | 180.9 | 148.6 | 157.5 | 196.2 | 236.2 | 240.8 |
| 25° | 856.4 | 797.3 | 645.4 | 443.3 | 211.0 | 129.3 | 124.6 | 135.5 | 161.6 | 188.4 | 191.0 |
| 27.5° | 840.0 | 771.9 | 596.2 | 350.9 | 137.1 | 106.5 | 109.7 | 117.0 | 127.7 | 139.6 | 140.8 |
| 30° | 818.7 | 741.6 | 543.6 | 255.9 | 103.5 | 95.8 | 100.4 | 104.3 | 108.9 | 115.6 | 116.2 |
| 32.5° | 794.3 | 712.4 | 489.7 | 176.7 | 91.8 | 90.2 | 93.8 | 95.8 | 99.4 | 103.5 | 103.9 |
| 35° | 773.9 | 684.7 | 433.8 | 125.0 | 86.9 | 86.1 | 88.5 | 89.3 | 92.6 | 97.2 | 97.6 |
| 37.5° | 762.2 | 662.1 | 376.1 | 100.8 | 83.5 | 82.3 | 83.7 | 83.7 | 88.5 | 95.2 | 96.2 |
| 40° | 763.0 | 649.6 | 318.3 | 91.0 | 80.7 | 79.1 | 79.3 | 79.3 | 85.5 | 92.8 | 93.4 |
| 42.5° | 784.6 | 652.7 | 267.2 | 87.3 | 78.5 | 76.8 | 75.8 | 76.4 | 81.5 | 86.3 | 86.7 |
| 45° | 835.4 | 675.1 | 219.2 | 84.9 | 76.4 | 75.8 | 73.6 | 73.4 | 75.4 | 77.6 | 77.6 |
| 47.5° | 918.7 | 719.4 | 186.6 | 83.3 | 74.6 | 74.4 | 71.8 | 69.2 | 69.0 | 69.8 | 69.8 |
| 50° | 1054.2 | 795.5 | 164.8 | 81.5 | 73.4 | 71.8 | 68.8 | 64.9 | 63.5 | 64.1 | 64.1 |
| 52.5° | 1257.3 | 931.4 | 156.5 | 79.1 | 70.8 | 68.2 | 64.9 | 60.9 | 59.7 | 59.9 | 59.9 |
| 55° | 1523.6 | 1140.1 | 155.3 | 76.4 | 68.0 | 63.9 | 61.1 | 58.1 | 56.7 | 57.1 | 57.1 |
| 57.5° | 1849.1 | 1428.6 | 176.5 | 72.0 | 64.3 | 59.5 | 57.9 | 55.9 | 54.9 | 55.5 | 55.3 |
| 60° | 2244.8 | 1806.3 | 261.8 | 67.4 | 60.5 | 55.5 | 55.5 | 53.9 | 53.2 | 53.7 | 53.6 |
| 62.5° | 2700.6 | 2240.0 | 368.1 | 64.1 | 56.5 | 52.4 | 53.2 | 52.4 | 51.6 | 52.0 | 51.8 |
| 65° | 3104.8 | 2522.7 | 344.7 | 61.5 | 52.6 | 49.4 | 50.8 | 50.4 | 49.8 | 50.2 | 50.0 |
| 67.5° | 3116.5 | 2418.0 | 193.6 | 58.7 | 48.8 | 46.4 | 48.4 | 48.2 | 47.8 | 48.2 | 48.0 |
| 70° | 2781.3 | 2041.7 | 109.1 | 53.6 | 44.8 | 42.8 | 45.6 | 45.4 | 45.0 | 45.8 | 45.6 |
| 72.5° | 2228.3 | 1481.6 | 79.7 | 47.2 | 40.9 | 39.1 | 42.2 | 42.0 | 42.0 | 43.2 | 42.6 |
| 75° | 1282.3 | 762.4 | 63.7 | 40.5 | 36.7 | 35.3 | 38.1 | 38.3 | 38.7 | 40.3 | 39.1 |
| 77.5° | 365.5 | 237.6 | 52.0 | 34.3 | 31.5 | 30.9 | 33.7 | 34.1 | 34.3 | 36.1 | 34.5 |
| 80° | 135.9 | 109.5 | 42.8 | 28.8 | 25.8 | 26.0 | 28.6 | 29.2 | 29.4 | 31.1 | 29.2 |
| 82.5° | 86.7 | 72.2 | 34.7 | 22.2 | 20.2 | 20.0 | 23.2 | 24.0 | 24.0 | 24.2 | 23.0 |
| 85° | 50.6 | 43.2 | 26.2 | 16.1 | 14.3 | 13.7 | 17.3 | 18.6 | 18.0 | 17.7 | 16.9 |
| 87.5° | 33.9 | 29.8 | 16.1 | 8.9 | 7.7 | 7.3 | 10.1 | 11.1 | 10.7 | 10.1 | 9.5 |
| 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)