

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: P190954

Luminaire Tested: **GAN-AF-06-LED-U-AFL-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190954
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-06-LED-U-AFL-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24616.3 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 193
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

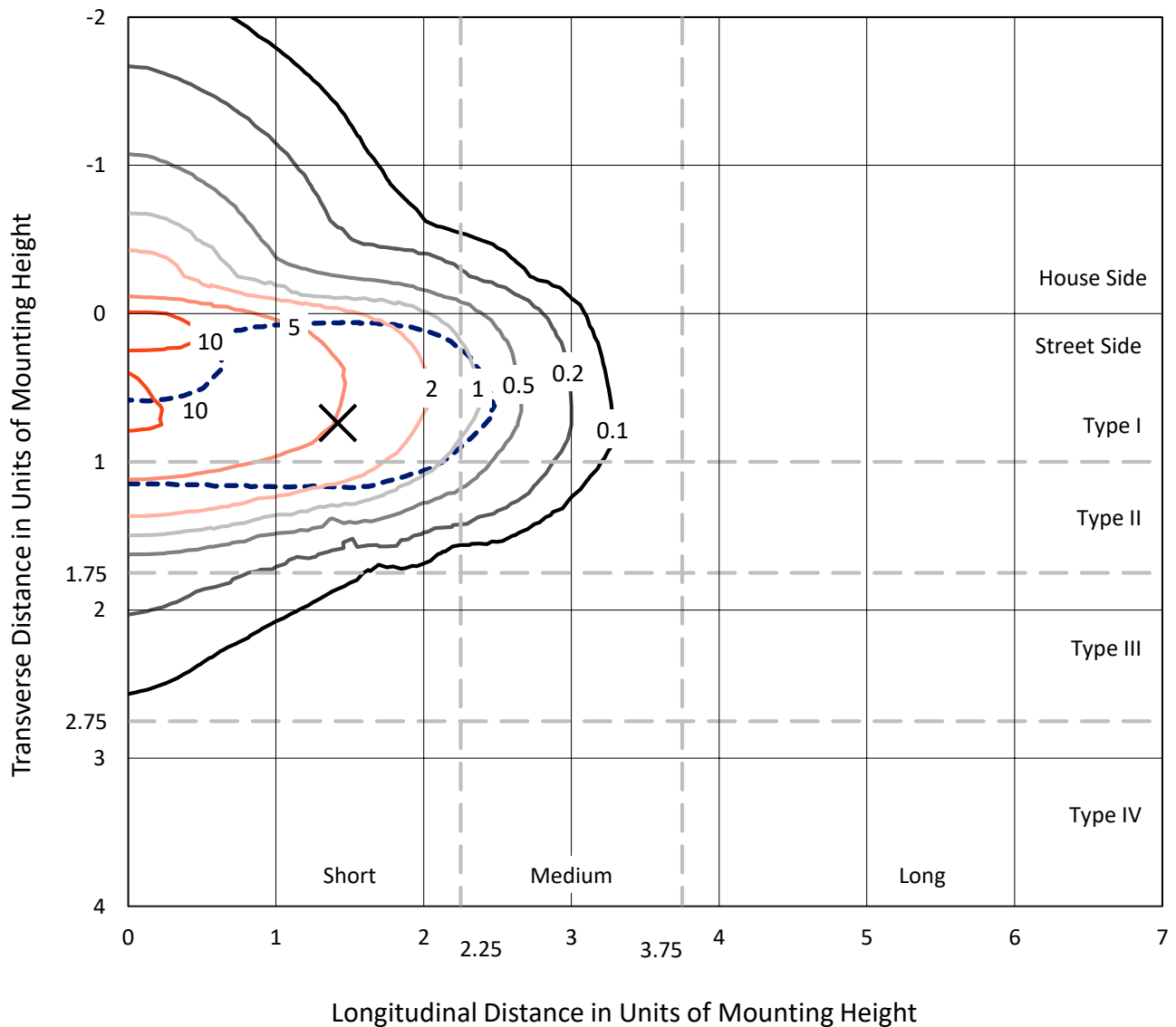


REPORT NUMBER: P190954

CATALOG NUMBER: GAN-AF-06-LED-U-AFL-600

Iso-Footcandle Lines of Horizontal Illumination

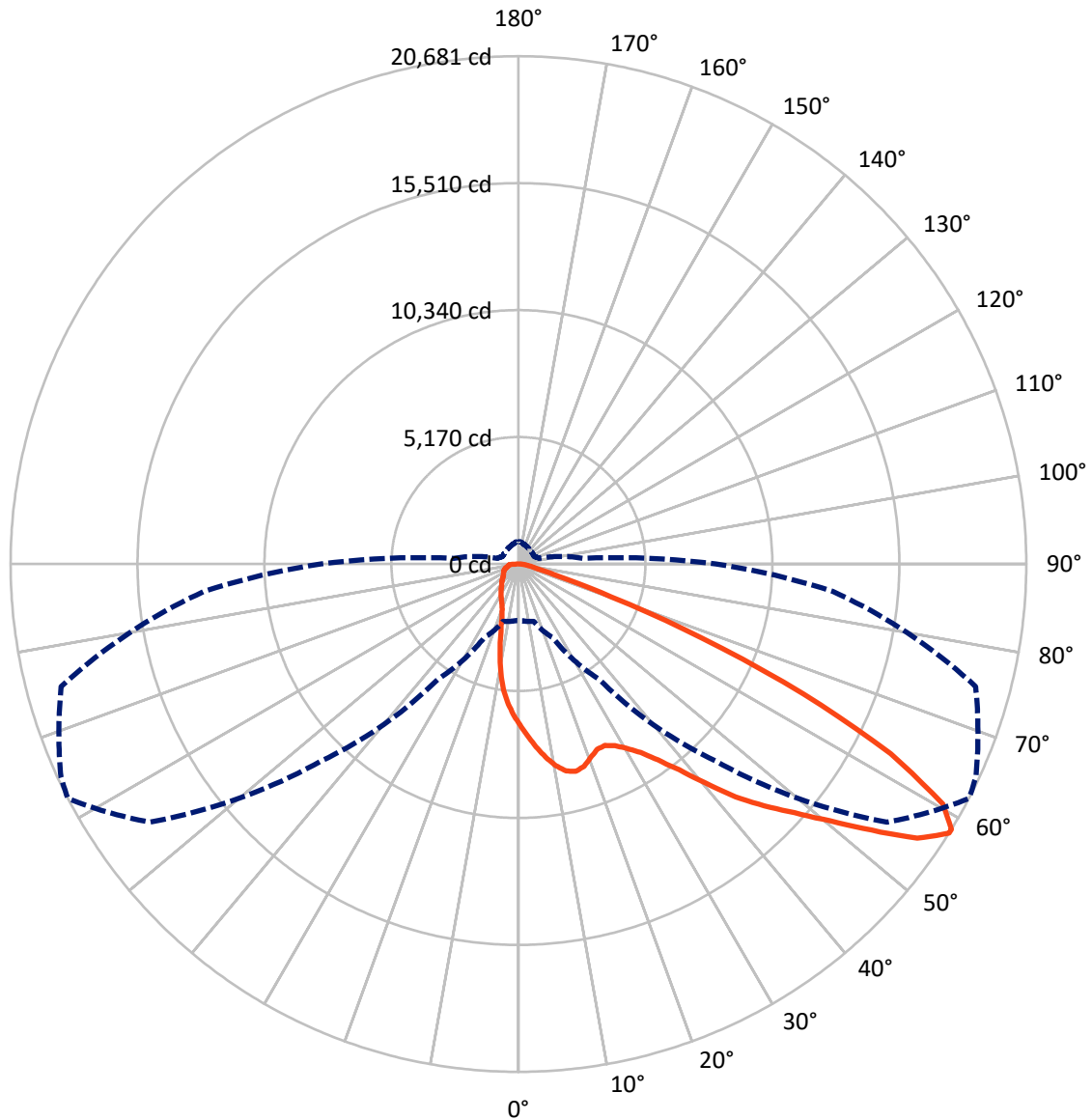
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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 | 3754.1 | 0.0 | 3754.1 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 20862.2 | 0.0 | 20862.2 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 24616.3 | 0.0 | 24616.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 584.8 | 2.4 |
| 10°-20° | 1494.8 | 6.1 |
| 20°-30° | 2416.5 | 9.8 |
| 30°-40° | 3836.1 | 15.6 |
| 40°-50° | 5613.0 | 22.8 |
| 50°-60° | 5870.8 | 23.8 |
| 60°-70° | 3468.4 | 14.1 |
| 70°-80° | 977.1 | 4.0 |
| 80°-90° | 354.7 | 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° | 24616.3 | 100.0 |
| 0°-180° | 24616.3 | 100.0 |



REPORT NUMBER: P190954

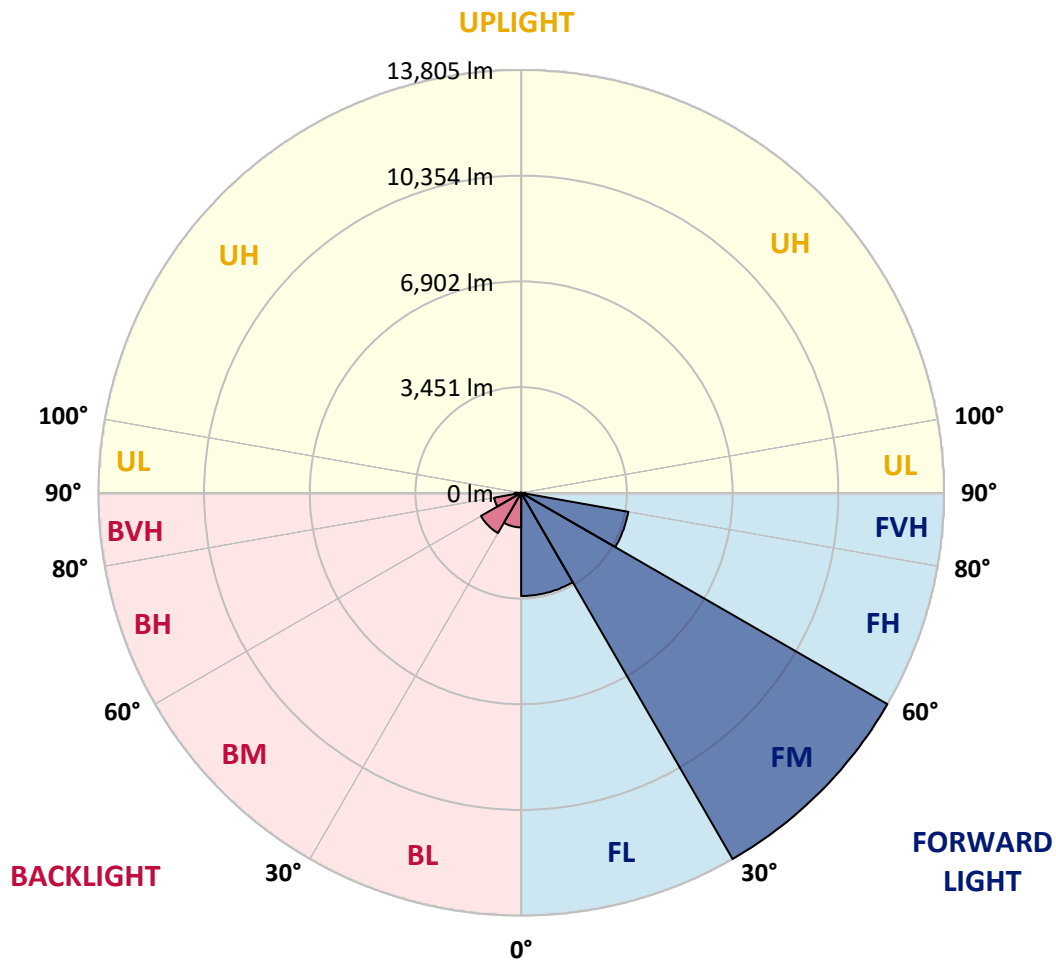
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3367.8 | 13.7 | | | |
| FM | (30°-60°) | 13804.7 | 56.1 | | | |
| FH | (60°-80°) | 3549.8 | 14.4 | | | G2/5000 |
| FVH | (80°-90°) | 139.9 | 0.6 | | | G2/225 |
| BL | (0°-30°) | 1128.3 | 4.6 | B3/2500 | | |
| BM | (30°-60°) | 1515.2 | 6.2 | B2/2500 | | |
| BH | (60°-80°) | 895.8 | 3.6 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 214.8 | 0.9 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-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° | 6538.8 | 6538.8 | 6538.8 | 6538.8 | 6538.8 | 6538.8 | 6538.8 | 6538.8 | 6538.8 | 6538.8 | 6538.8 |
| 2.5° | 7471.9 | 7411.7 | 7373.4 | 7339.8 | 7295.8 | 7201.9 | 7075.5 | 6995.6 | 6954.9 | 6817.0 | 6653.6 |
| 5° | 8204.6 | 8151.2 | 8111.8 | 8066.6 | 7987.8 | 7840.5 | 7636.5 | 7474.3 | 7394.3 | 7118.4 | 6791.5 |
| 7.5° | 8032.9 | 8055.0 | 8123.4 | 8242.7 | 8344.8 | 8325.1 | 8143.1 | 7936.8 | 7831.3 | 7447.6 | 6951.5 |
| 10° | 6999.0 | 7037.3 | 7155.4 | 7434.8 | 7887.0 | 8350.6 | 8492.0 | 8349.4 | 8242.7 | 7773.3 | 7116.1 |
| 12.5° | 6791.5 | 6790.3 | 6799.7 | 6873.8 | 7142.8 | 7795.3 | 8503.6 | 8647.3 | 8583.6 | 8084.0 | 7284.1 |
| 15° | 6876.2 | 6878.4 | 6871.5 | 6902.8 | 6986.2 | 7244.7 | 8148.9 | 8762.1 | 8807.3 | 8397.0 | 7458.0 |
| 17.5° | 7098.7 | 7092.9 | 7066.2 | 7066.2 | 7096.4 | 7197.2 | 7731.6 | 8655.4 | 8864.1 | 8674.0 | 7611.1 |
| 20° | 7471.9 | 7445.2 | 7374.6 | 7309.7 | 7277.2 | 7331.7 | 7560.0 | 8409.7 | 8765.6 | 8916.2 | 7737.4 |
| 22.5° | 7924.0 | 7903.1 | 7788.3 | 7649.3 | 7536.9 | 7535.7 | 7648.1 | 8195.3 | 8595.1 | 9144.6 | 7844.0 |
| 25° | 8508.2 | 8474.6 | 8304.2 | 8081.6 | 7884.6 | 7809.2 | 7840.5 | 8184.8 | 8502.5 | 9392.6 | 7939.1 |
| 27.5° | 9194.5 | 9133.0 | 8931.3 | 8610.3 | 8320.5 | 8168.6 | 8123.4 | 8373.8 | 8587.1 | 9699.8 | 8071.2 |
| 30° | 10026.8 | 9956.0 | 9697.6 | 9279.1 | 8869.9 | 8620.7 | 8524.5 | 8708.8 | 8867.6 | 10074.2 | 8283.3 |
| 32.5° | 10973.8 | 10871.7 | 10572.7 | 10111.4 | 9573.5 | 9193.3 | 9036.8 | 9151.5 | 9278.0 | 10525.1 | 8548.8 |
| 35° | 12282.5 | 12160.7 | 11728.3 | 11092.0 | 10484.6 | 9961.8 | 9711.4 | 9794.9 | 9917.8 | 11197.5 | 8932.5 |
| 37.5° | 13175.0 | 13120.5 | 12833.0 | 12234.9 | 11574.2 | 10972.6 | 10585.4 | 10634.1 | 10703.6 | 12037.9 | 9423.9 |
| 40° | 13166.9 | 13188.9 | 13194.7 | 13200.5 | 12750.8 | 12174.6 | 11758.5 | 11707.5 | 11693.6 | 12960.6 | 9982.7 |
| 42.5° | 12507.3 | 12597.7 | 12889.9 | 13482.2 | 13755.7 | 13491.5 | 13110.1 | 12962.8 | 12889.9 | 14047.9 | 10575.0 |
| 45° | 11497.7 | 11546.4 | 12093.5 | 13250.4 | 14270.4 | 14795.6 | 14506.9 | 14043.2 | 13911.1 | 15047.0 | 11066.5 |
| 47.5° | 10977.3 | 11030.6 | 11374.8 | 12636.0 | 14264.6 | 15849.2 | 16016.1 | 15132.8 | 14896.3 | 15916.4 | 11490.7 |
| 50° | 9738.1 | 9849.4 | 10282.9 | 11567.2 | 13744.2 | 16333.7 | 17593.7 | 16431.0 | 15941.9 | 16762.6 | 11916.1 |
| 52.5° | 7462.6 | 7634.2 | 8119.9 | 9810.0 | 12423.8 | 16093.8 | 18856.1 | 18005.3 | 17314.4 | 17638.9 | 12281.2 |
| 55° | 4707.3 | 4834.9 | 5242.8 | 6928.3 | 9938.6 | 14845.4 | 19334.8 | 19708.1 | 19093.7 | 18468.9 | 12597.7 |
| 57.5° | 2559.4 | 2616.2 | 2769.2 | 3825.2 | 6464.6 | 12085.3 | 18636.9 | 20677.1 | 20422.1 | 19173.7 | 12836.5 |
| 58° | 2290.5 | 2328.7 | 2423.8 | 3315.2 | 5733.2 | 11330.8 | 18327.5 | 20680.6 | 20553.0 | 19276.8 | 12855.1 |
| 60° | 1699.3 | 1679.6 | 1595.0 | 1891.7 | 3191.2 | 7827.8 | 16456.6 | 19852.9 | 20227.3 | 19403.1 | 12764.7 |
| 62.5° | 1493.0 | 1445.4 | 1272.8 | 1253.0 | 1552.1 | 3606.1 | 12591.9 | 17006.0 | 17890.5 | 18682.2 | 12215.3 |
| 65° | 1402.6 | 1351.6 | 1129.0 | 1057.1 | 1119.7 | 1525.4 | 7417.4 | 12754.3 | 13863.5 | 16496.0 | 10810.3 |
| 67.5° | 1335.4 | 1269.3 | 1037.5 | 939.0 | 943.6 | 1008.4 | 2973.2 | 8032.9 | 9281.3 | 12524.7 | 8408.6 |
| 70° | 1270.4 | 1198.6 | 959.8 | 846.2 | 819.5 | 797.5 | 1182.3 | 4021.1 | 5153.6 | 7911.3 | 5361.1 |
| 72.5° | 1200.8 | 1130.2 | 891.4 | 773.1 | 721.0 | 647.9 | 772.0 | 1644.8 | 2297.4 | 3742.9 | 2432.0 |
| 75° | 1100.1 | 1036.2 | 823.0 | 708.3 | 634.0 | 536.6 | 583.1 | 859.0 | 1030.5 | 1490.6 | 1171.9 |
| 77.5° | 976.0 | 923.8 | 746.5 | 654.9 | 562.2 | 435.9 | 448.6 | 595.8 | 660.7 | 853.1 | 696.6 |
| 80° | 701.3 | 719.9 | 664.2 | 588.8 | 500.7 | 353.5 | 344.2 | 434.7 | 469.4 | 548.3 | 453.3 |
| 82.5° | 492.7 | 503.1 | 549.4 | 481.1 | 413.8 | 278.2 | 253.9 | 306.1 | 326.8 | 360.5 | 244.6 |
| 85° | 339.6 | 328.1 | 376.8 | 335.0 | 299.1 | 185.5 | 173.9 | 207.5 | 220.2 | 223.7 | 126.3 |
| 87.5° | 204.0 | 204.0 | 217.9 | 179.6 | 161.1 | 96.3 | 93.9 | 118.3 | 126.3 | 120.5 | 69.6 |
| 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-06-LED-U-AFL-600

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6538.8 | 6538.8 | 6538.8 | 6538.8 | 6538.8 | 6538.8 | 6538.8 | 6538.8 | 6538.8 | 6538.8 | 6538.8 |
| 2.5° | 6556.2 | 6473.9 | 6298.8 | 6158.6 | 5981.3 | 5797.0 | 5693.7 | 5583.7 | 5508.3 | 5453.9 | 5540.8 |
| 5° | 6606.0 | 6437.9 | 6076.3 | 5733.2 | 5354.1 | 4960.1 | 4661.0 | 4382.7 | 4189.2 | 4068.7 | 4182.2 |
| 7.5° | 6684.9 | 6426.4 | 5850.3 | 5263.7 | 4583.3 | 3927.2 | 3340.7 | 2973.2 | 2758.8 | 2653.3 | 2719.4 |
| 10° | 6775.3 | 6407.9 | 5584.8 | 4627.3 | 3653.7 | 2827.2 | 2389.0 | 2240.7 | 2192.0 | 2172.2 | 2181.5 |
| 12.5° | 6850.6 | 6368.4 | 5259.1 | 3857.6 | 2743.8 | 2232.6 | 2106.2 | 2102.7 | 2113.1 | 2115.5 | 2118.9 |
| 15° | 6904.0 | 6310.5 | 4775.7 | 3055.6 | 2194.3 | 2034.3 | 2027.4 | 2048.3 | 2067.9 | 2076.1 | 2080.7 |
| 17.5° | 6939.9 | 6191.1 | 4229.8 | 2415.7 | 1965.9 | 1938.1 | 1954.3 | 1981.0 | 2001.9 | 2007.6 | 2012.3 |
| 20° | 6936.4 | 6016.1 | 3579.5 | 2014.6 | 1841.9 | 1841.9 | 1869.7 | 1890.6 | 1891.7 | 1884.8 | 1888.3 |
| 22.5° | 6900.5 | 5776.1 | 2948.9 | 1801.3 | 1731.8 | 1751.5 | 1779.3 | 1759.6 | 1678.5 | 1625.2 | 1628.6 |
| 25° | 6840.2 | 5489.8 | 2408.7 | 1665.7 | 1629.8 | 1664.5 | 1656.5 | 1508.0 | 1392.1 | 1340.0 | 1340.0 |
| 27.5° | 6786.9 | 5151.3 | 1993.7 | 1547.5 | 1527.8 | 1570.6 | 1426.9 | 1292.5 | 1243.8 | 1219.5 | 1211.3 |
| 30° | 6748.6 | 4786.2 | 1716.7 | 1433.9 | 1431.5 | 1400.2 | 1238.0 | 1200.8 | 1192.8 | 1173.1 | 1166.2 |
| 32.5° | 6757.9 | 4416.4 | 1539.3 | 1334.2 | 1342.3 | 1198.6 | 1147.5 | 1155.7 | 1148.8 | 1127.9 | 1118.6 |
| 35° | 6834.4 | 4065.2 | 1423.4 | 1243.8 | 1219.5 | 1082.7 | 1094.3 | 1109.3 | 1107.0 | 1078.0 | 1068.8 |
| 37.5° | 6971.2 | 3732.5 | 1346.9 | 1168.4 | 1064.1 | 1024.7 | 1043.2 | 1066.4 | 1060.6 | 1041.0 | 1034.0 |
| 40° | 7114.9 | 3419.5 | 1284.3 | 1109.3 | 972.5 | 985.3 | 1001.5 | 1014.3 | 1020.1 | 1025.8 | 1021.2 |
| 42.5° | 7255.2 | 3092.7 | 1207.8 | 1049.0 | 934.3 | 948.2 | 955.1 | 967.9 | 999.2 | 1021.2 | 1020.1 |
| 45° | 7338.6 | 2785.5 | 1129.0 | 963.2 | 904.2 | 912.3 | 907.7 | 933.1 | 971.4 | 1007.3 | 1008.4 |
| 47.5° | 7431.3 | 2546.6 | 1066.4 | 884.4 | 875.1 | 881.0 | 867.1 | 892.5 | 927.3 | 971.4 | 976.0 |
| 50° | 7543.9 | 2404.1 | 1016.6 | 821.8 | 835.8 | 835.8 | 832.3 | 855.5 | 904.2 | 955.1 | 964.4 |
| 52.5° | 7671.3 | 2376.3 | 974.9 | 776.6 | 796.4 | 795.1 | 798.6 | 833.4 | 886.8 | 936.6 | 944.7 |
| 55° | 7826.6 | 2451.6 | 929.7 | 743.1 | 758.1 | 762.7 | 774.3 | 813.8 | 859.0 | 915.7 | 919.2 |
| 57.5° | 8007.5 | 2604.6 | 893.8 | 716.4 | 723.3 | 738.4 | 756.9 | 792.9 | 841.6 | 904.2 | 907.7 |
| 58° | 8037.6 | 2637.1 | 887.9 | 714.0 | 716.4 | 733.8 | 754.6 | 789.4 | 838.1 | 906.4 | 909.9 |
| 60° | 8038.8 | 2744.9 | 875.1 | 703.6 | 689.7 | 718.7 | 741.8 | 776.6 | 832.3 | 914.6 | 922.7 |
| 62.5° | 7753.7 | 2743.8 | 865.9 | 688.5 | 661.8 | 697.9 | 724.5 | 765.1 | 826.4 | 934.3 | 950.5 |
| 65° | 6827.5 | 2493.3 | 821.8 | 665.3 | 639.9 | 679.2 | 709.4 | 756.9 | 842.7 | 1020.1 | 1030.5 |
| 67.5° | 5340.2 | 2043.5 | 739.6 | 632.9 | 610.9 | 660.7 | 700.1 | 755.8 | 860.1 | 1039.7 | 1046.7 |
| 70° | 3530.8 | 1528.9 | 649.2 | 595.8 | 580.7 | 638.7 | 704.8 | 795.1 | 840.4 | 998.0 | 979.5 |
| 72.5° | 1832.6 | 1073.4 | 576.1 | 549.4 | 545.9 | 619.0 | 772.0 | 790.5 | 820.7 | 939.0 | 915.7 |
| 75° | 962.1 | 745.3 | 512.4 | 498.5 | 504.2 | 614.4 | 911.1 | 769.7 | 795.1 | 898.4 | 942.4 |
| 77.5° | 588.8 | 601.6 | 457.9 | 452.0 | 463.7 | 600.5 | 909.9 | 743.1 | 758.1 | 826.4 | 875.1 |
| 80° | 394.1 | 488.0 | 416.1 | 417.3 | 425.4 | 549.4 | 817.2 | 701.3 | 712.9 | 781.2 | 831.1 |
| 82.5° | 249.2 | 288.7 | 377.9 | 397.6 | 387.2 | 453.3 | 694.4 | 638.7 | 654.9 | 893.8 | 944.7 |
| 85° | 126.3 | 180.9 | 328.1 | 382.5 | 348.9 | 317.6 | 563.3 | 559.9 | 567.9 | 644.5 | 673.5 |
| 87.5° | 58.0 | 99.7 | 256.1 | 333.8 | 263.1 | 198.2 | 409.2 | 415.0 | 447.4 | 457.9 | 457.9 |
| 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)