

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: P194312

Luminaire Tested: **GAN-AF-04-LED-U-AFL-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194312
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-04-LED-U-AFL-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24634 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 225
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

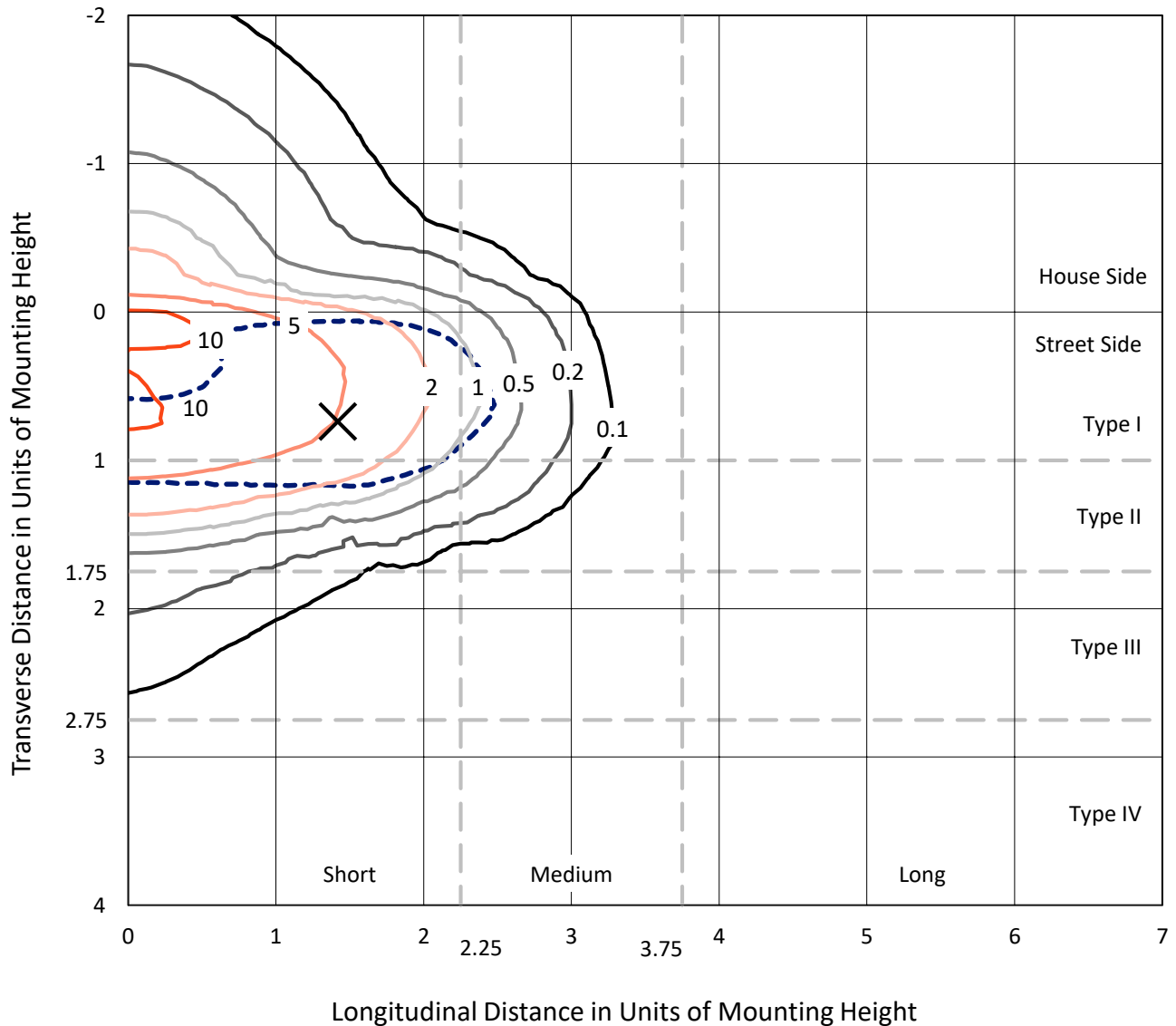


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Iso-Footcandle Lines of Horizontal Illumination

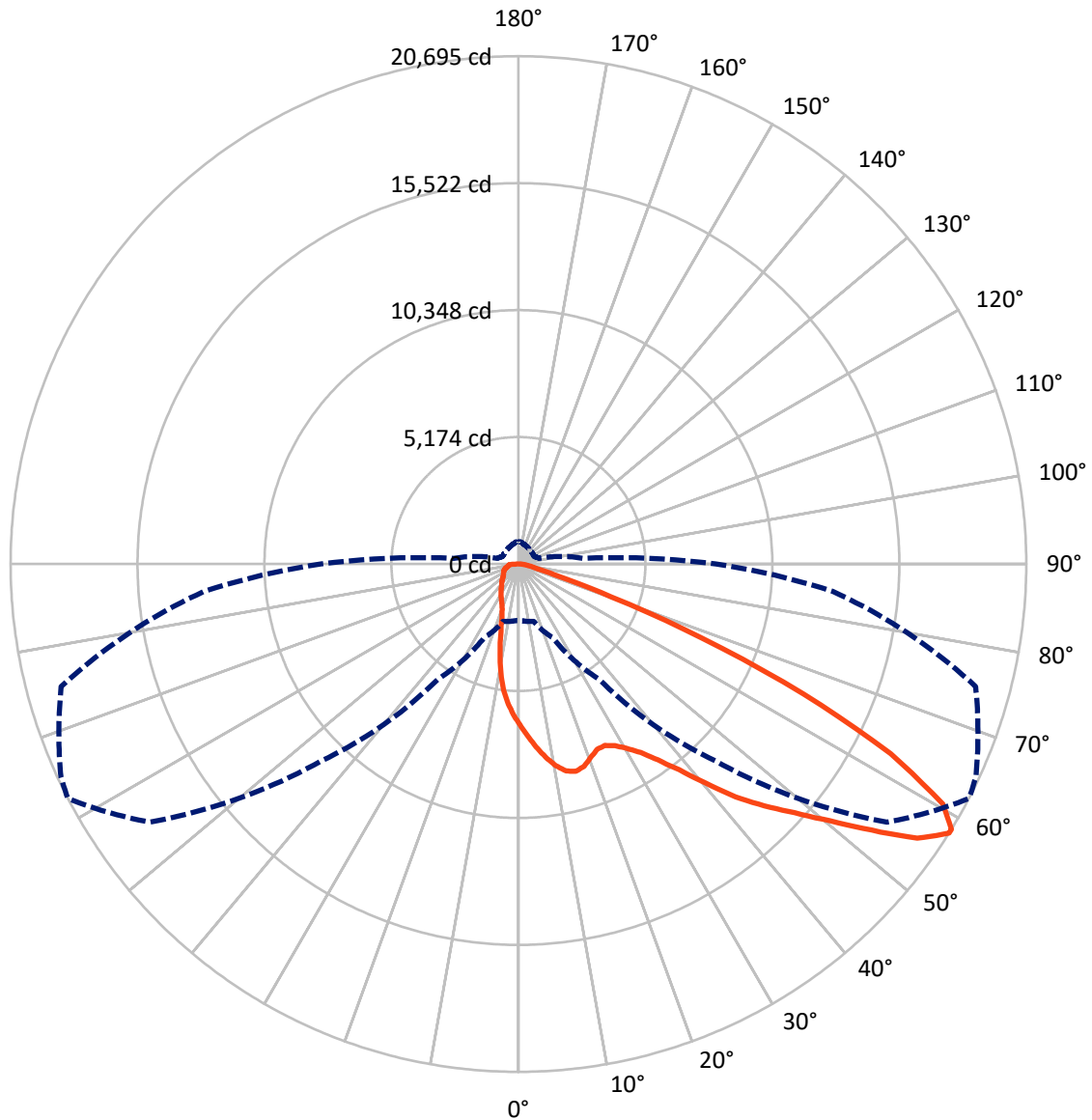
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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 | 3756.8 | 0.0 | 3756.8 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 20877.2 | 0.0 | 20877.2 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 24634.0 | 0.0 | 24634.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 585.2 | 2.4 |
| 10°-20° | 1495.9 | 6.1 |
| 20°-30° | 2418.2 | 9.8 |
| 30°-40° | 3838.9 | 15.6 |
| 40°-50° | 5617.1 | 22.8 |
| 50°-60° | 5875.0 | 23.8 |
| 60°-70° | 3471.0 | 14.1 |
| 70°-80° | 977.8 | 4.0 |
| 80°-90° | 355.0 | 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° | 24634.0 | 100.0 |
| 0°-180° | 24634.0 | 100.0 |



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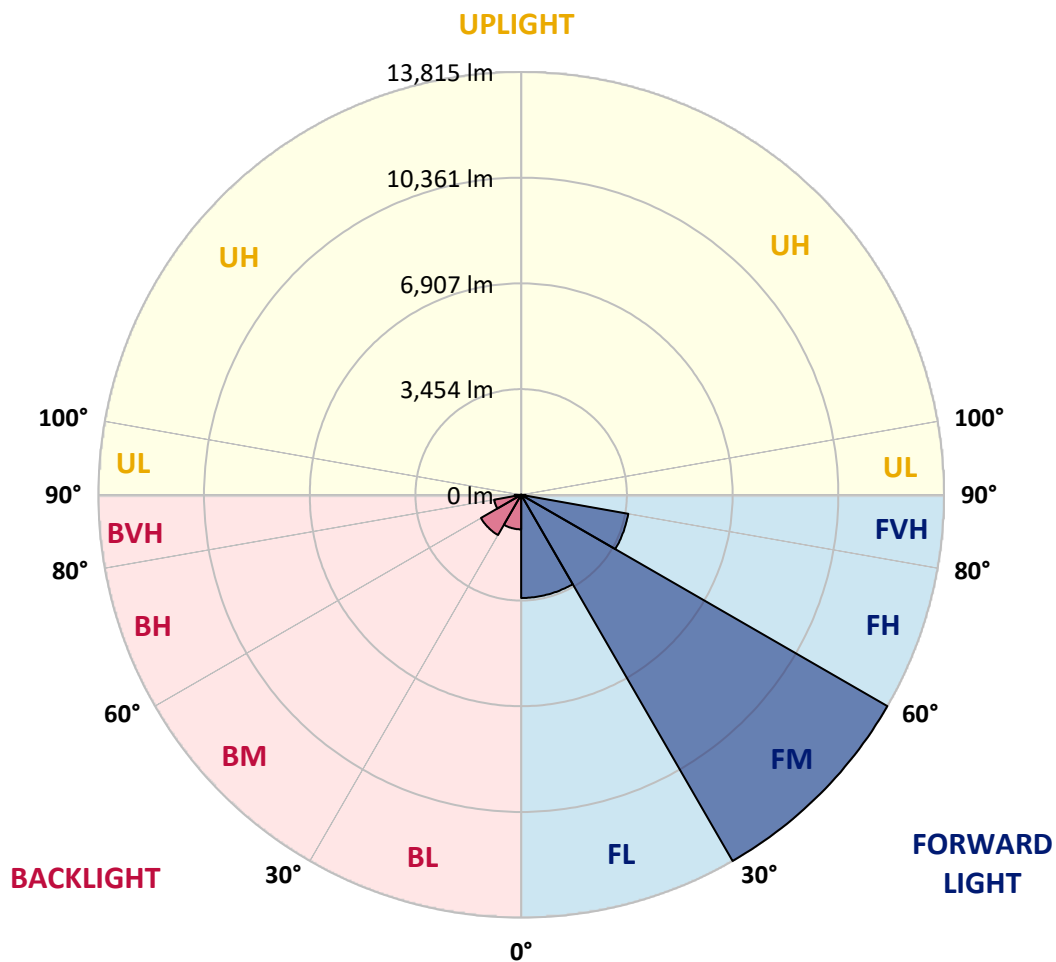
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3370.2 | 13.7 | | | |
| FM (30°-60°) | 13814.6 | 56.1 | | | |
| FH (60°-80°) | 3552.3 | 14.4 | | | G2/5000 |
| FVH (80°-90°) | 140.0 | 0.6 | | | G2/225 |
| BL (0°-30°) | 1129.1 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 1516.3 | 6.2 | B2/2500 | | |
| BH (60°-80°) | 896.4 | 3.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 214.9 | 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° | 6543.5 | 6543.5 | 6543.5 | 6543.5 | 6543.5 | 6543.5 | 6543.5 | 6543.5 | 6543.5 | 6543.5 | 6543.5 |
| 2.5° | 7477.3 | 7417.0 | 7378.7 | 7345.1 | 7301.0 | 7207.0 | 7080.6 | 7000.6 | 6960.0 | 6821.9 | 6658.4 |
| 5° | 8210.4 | 8157.1 | 8117.6 | 8072.4 | 7993.5 | 7846.2 | 7642.0 | 7479.6 | 7399.6 | 7123.5 | 6796.4 |
| 7.5° | 8038.8 | 8060.8 | 8129.2 | 8248.7 | 8350.8 | 8331.1 | 8149.0 | 7942.5 | 7836.9 | 7453.0 | 6956.5 |
| 10° | 7004.0 | 7042.3 | 7160.6 | 7440.2 | 7892.6 | 8356.6 | 8498.1 | 8355.4 | 8248.7 | 7778.9 | 7121.2 |
| 12.5° | 6796.4 | 6795.2 | 6804.5 | 6878.8 | 7147.9 | 7801.0 | 8509.7 | 8653.5 | 8589.7 | 8089.8 | 7289.4 |
| 15° | 6881.1 | 6883.4 | 6876.4 | 6907.8 | 6991.3 | 7250.0 | 8154.8 | 8768.4 | 8813.6 | 8403.0 | 7463.4 |
| 17.5° | 7103.8 | 7098.0 | 7071.3 | 7071.3 | 7101.5 | 7202.4 | 7737.2 | 8661.7 | 8870.5 | 8680.2 | 7616.5 |
| 20° | 7477.3 | 7450.6 | 7379.9 | 7314.9 | 7282.4 | 7337.0 | 7565.5 | 8415.7 | 8771.9 | 8922.7 | 7743.0 |
| 22.5° | 7929.7 | 7908.8 | 7794.0 | 7654.8 | 7542.3 | 7541.1 | 7653.6 | 8201.2 | 8601.3 | 9151.2 | 7849.7 |
| 25° | 8514.3 | 8480.7 | 8310.2 | 8087.5 | 7890.3 | 7814.9 | 7846.2 | 8190.7 | 8508.5 | 9399.4 | 7944.8 |
| 27.5° | 9201.1 | 9139.6 | 8937.7 | 8616.4 | 8326.4 | 8174.5 | 8129.2 | 8379.8 | 8593.2 | 9706.8 | 8077.0 |
| 30° | 10033.9 | 9963.2 | 9704.5 | 9285.7 | 8876.3 | 8626.9 | 8530.6 | 8715.0 | 8873.9 | 10081.5 | 8289.3 |
| 32.5° | 10981.7 | 10879.6 | 10580.3 | 10118.6 | 9580.4 | 9199.9 | 9043.3 | 9158.1 | 9284.6 | 10532.7 | 8554.9 |
| 35° | 12291.3 | 12169.5 | 11736.8 | 11100.0 | 10492.1 | 9969.0 | 9718.4 | 9801.9 | 9924.9 | 11205.5 | 8938.9 |
| 37.5° | 13184.5 | 13130.0 | 12842.3 | 12243.7 | 11582.5 | 10980.5 | 10593.1 | 10641.8 | 10711.4 | 12046.5 | 9430.7 |
| 40° | 13176.4 | 13198.4 | 13204.2 | 13210.0 | 12759.9 | 12183.4 | 11767.0 | 11715.9 | 11702.0 | 12969.9 | 9989.9 |
| 42.5° | 12516.3 | 12606.8 | 12899.1 | 13491.9 | 13765.6 | 13501.2 | 13119.5 | 12972.2 | 12899.1 | 14058.0 | 10582.6 |
| 45° | 11506.0 | 11554.7 | 12102.2 | 13259.9 | 14280.7 | 14806.2 | 14517.3 | 14053.3 | 13921.1 | 15057.9 | 11074.5 |
| 47.5° | 10985.1 | 11038.5 | 11383.0 | 12645.1 | 14274.9 | 15860.6 | 16027.6 | 15143.7 | 14907.1 | 15927.9 | 11499.0 |
| 50° | 9745.1 | 9856.5 | 10290.3 | 11575.6 | 13754.0 | 16345.5 | 17606.4 | 16442.9 | 15953.4 | 16774.7 | 11924.7 |
| 52.5° | 7468.0 | 7639.7 | 8125.8 | 9817.0 | 12432.8 | 16105.3 | 18869.6 | 18018.2 | 17326.8 | 17651.6 | 12290.1 |
| 55° | 4710.7 | 4838.3 | 5246.6 | 6933.3 | 9945.8 | 14856.0 | 19348.7 | 19722.2 | 19107.4 | 18482.2 | 12606.8 |
| 57.5° | 2561.3 | 2618.1 | 2771.2 | 3828.0 | 6469.3 | 12094.1 | 18650.4 | 20692.0 | 20436.8 | 19187.4 | 12845.8 |
| 58° | 2292.1 | 2330.4 | 2425.5 | 3317.6 | 5737.3 | 11338.9 | 18340.6 | 20695.4 | 20567.8 | 19290.7 | 12864.3 |
| 60° | 1700.5 | 1680.8 | 1596.2 | 1893.1 | 3193.5 | 7833.4 | 16468.4 | 19867.2 | 20241.9 | 19417.1 | 12773.8 |
| 62.5° | 1494.1 | 1446.5 | 1273.7 | 1254.0 | 1553.2 | 3608.7 | 12601.0 | 17018.3 | 17903.3 | 18695.6 | 12224.0 |
| 65° | 1403.6 | 1352.6 | 1129.8 | 1057.9 | 1120.6 | 1526.6 | 7422.8 | 12763.4 | 13873.5 | 16507.9 | 10818.1 |
| 67.5° | 1336.3 | 1270.2 | 1038.2 | 939.6 | 944.2 | 1009.2 | 2975.4 | 8038.8 | 9288.1 | 12533.7 | 8414.6 |
| 70° | 1271.4 | 1199.4 | 960.5 | 846.8 | 820.1 | 798.1 | 1183.2 | 4024.0 | 5157.3 | 7917.0 | 5365.0 |
| 72.5° | 1201.8 | 1131.0 | 892.0 | 773.7 | 721.5 | 648.4 | 772.6 | 1646.0 | 2299.1 | 3745.6 | 2433.7 |
| 75° | 1100.8 | 1037.0 | 823.6 | 708.8 | 634.5 | 537.1 | 583.5 | 859.6 | 1031.2 | 1491.8 | 1172.8 |
| 77.5° | 976.7 | 924.5 | 747.0 | 655.4 | 562.6 | 436.2 | 448.9 | 596.2 | 661.2 | 853.8 | 697.2 |
| 80° | 701.8 | 720.4 | 664.7 | 589.3 | 501.1 | 353.8 | 344.5 | 435.0 | 469.8 | 548.7 | 453.6 |
| 82.5° | 493.0 | 503.4 | 549.8 | 481.4 | 414.1 | 278.4 | 254.0 | 306.2 | 327.1 | 360.8 | 244.8 |
| 85° | 339.9 | 328.3 | 377.0 | 335.2 | 299.3 | 185.6 | 174.0 | 207.6 | 220.4 | 223.9 | 126.4 |
| 87.5° | 204.2 | 204.2 | 218.1 | 179.8 | 161.2 | 96.3 | 94.0 | 118.3 | 126.4 | 120.6 | 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-04-LED-U-AFL-7060

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6543.5 | 6543.5 | 6543.5 | 6543.5 | 6543.5 | 6543.5 | 6543.5 | 6543.5 | 6543.5 | 6543.5 | 6543.5 |
| 2.5° | 6560.9 | 6478.6 | 6303.4 | 6163.0 | 5985.6 | 5801.1 | 5697.9 | 5587.7 | 5512.3 | 5457.8 | 5544.8 |
| 5° | 6610.8 | 6442.6 | 6080.7 | 5737.3 | 5358.0 | 4963.6 | 4664.3 | 4385.9 | 4192.2 | 4071.6 | 4185.3 |
| 7.5° | 6689.7 | 6431.0 | 5854.5 | 5267.5 | 4586.6 | 3930.1 | 3343.1 | 2975.4 | 2760.8 | 2655.2 | 2721.3 |
| 10° | 6780.2 | 6412.4 | 5588.8 | 4630.7 | 3656.3 | 2829.2 | 2390.7 | 2242.3 | 2193.5 | 2173.8 | 2183.1 |
| 12.5° | 6855.6 | 6373.0 | 5262.9 | 3860.5 | 2745.7 | 2234.1 | 2107.7 | 2104.2 | 2114.7 | 2117.0 | 2120.5 |
| 15° | 6908.9 | 6315.0 | 4779.2 | 3057.7 | 2195.9 | 2035.8 | 2028.8 | 2049.7 | 2069.4 | 2077.5 | 2082.2 |
| 17.5° | 6944.9 | 6195.5 | 4232.8 | 2417.4 | 1967.3 | 1939.5 | 1955.7 | 1982.4 | 2003.3 | 2009.1 | 2013.7 |
| 20° | 6941.4 | 6020.4 | 3582.1 | 2016.1 | 1843.2 | 1843.2 | 1871.1 | 1891.9 | 1893.1 | 1886.1 | 1889.6 |
| 22.5° | 6905.4 | 5780.2 | 2951.0 | 1802.6 | 1733.0 | 1752.7 | 1780.6 | 1760.9 | 1679.7 | 1626.3 | 1629.8 |
| 25° | 6845.1 | 5493.7 | 2410.5 | 1666.9 | 1631.0 | 1665.7 | 1657.6 | 1509.2 | 1393.2 | 1341.0 | 1341.0 |
| 27.5° | 6791.8 | 5155.0 | 1995.2 | 1548.6 | 1528.9 | 1571.8 | 1428.0 | 1293.4 | 1244.7 | 1220.3 | 1212.2 |
| 30° | 6753.5 | 4789.6 | 1717.9 | 1434.9 | 1432.6 | 1401.3 | 1238.9 | 1201.8 | 1193.6 | 1173.9 | 1167.0 |
| 32.5° | 6762.8 | 4419.6 | 1540.5 | 1335.2 | 1343.3 | 1199.4 | 1148.4 | 1156.5 | 1149.6 | 1128.7 | 1119.4 |
| 35° | 6839.3 | 4068.1 | 1424.5 | 1244.7 | 1220.3 | 1083.4 | 1095.0 | 1110.1 | 1107.8 | 1078.8 | 1069.5 |
| 37.5° | 6976.2 | 3735.2 | 1347.9 | 1169.3 | 1064.9 | 1025.4 | 1044.0 | 1067.2 | 1061.4 | 1041.7 | 1034.7 |
| 40° | 7120.0 | 3422.0 | 1285.3 | 1110.1 | 973.2 | 986.0 | 1002.2 | 1015.0 | 1020.8 | 1026.6 | 1022.0 |
| 42.5° | 7260.4 | 3094.9 | 1208.7 | 1049.8 | 935.0 | 948.9 | 955.8 | 968.6 | 999.9 | 1022.0 | 1020.8 |
| 45° | 7343.9 | 2787.5 | 1129.8 | 964.0 | 904.8 | 912.9 | 908.3 | 933.8 | 972.1 | 1008.0 | 1009.2 |
| 47.5° | 7436.7 | 2548.5 | 1067.2 | 885.1 | 875.8 | 881.6 | 867.7 | 893.2 | 928.0 | 972.1 | 976.7 |
| 50° | 7549.2 | 2405.8 | 1017.3 | 822.4 | 836.4 | 836.4 | 832.9 | 856.1 | 904.8 | 955.8 | 965.1 |
| 52.5° | 7676.8 | 2378.0 | 975.6 | 777.2 | 796.9 | 795.8 | 799.2 | 834.0 | 887.4 | 937.3 | 945.4 |
| 55° | 7832.3 | 2453.4 | 930.3 | 743.6 | 758.6 | 763.3 | 774.9 | 814.3 | 859.6 | 916.4 | 919.9 |
| 57.5° | 8013.2 | 2606.5 | 894.4 | 716.9 | 723.8 | 738.9 | 757.5 | 793.4 | 842.2 | 904.8 | 908.3 |
| 58° | 8043.4 | 2639.0 | 888.6 | 714.6 | 716.9 | 734.3 | 755.2 | 790.0 | 838.7 | 907.1 | 910.6 |
| 60° | 8044.6 | 2746.9 | 875.8 | 704.1 | 690.2 | 719.2 | 742.4 | 777.2 | 832.9 | 915.2 | 923.4 |
| 62.5° | 7759.2 | 2745.7 | 866.5 | 689.0 | 662.4 | 698.3 | 725.0 | 765.6 | 827.1 | 935.0 | 951.2 |
| 65° | 6832.4 | 2495.1 | 822.4 | 665.8 | 640.3 | 679.8 | 709.9 | 757.5 | 843.3 | 1020.8 | 1031.2 |
| 67.5° | 5344.1 | 2045.1 | 740.1 | 633.4 | 611.3 | 661.2 | 700.6 | 756.3 | 860.7 | 1040.5 | 1047.5 |
| 70° | 3533.3 | 1530.0 | 649.6 | 596.2 | 581.2 | 639.2 | 705.3 | 795.8 | 841.0 | 998.8 | 980.2 |
| 72.5° | 1833.9 | 1074.2 | 576.5 | 549.8 | 546.4 | 619.4 | 772.6 | 791.1 | 821.3 | 939.6 | 916.4 |
| 75° | 962.8 | 745.9 | 512.7 | 498.8 | 504.6 | 614.8 | 911.8 | 770.2 | 795.8 | 899.0 | 943.1 |
| 77.5° | 589.3 | 602.0 | 458.2 | 452.4 | 464.0 | 600.9 | 910.6 | 743.6 | 758.6 | 827.1 | 875.8 |
| 80° | 394.4 | 488.4 | 416.4 | 417.6 | 425.7 | 549.8 | 817.8 | 701.8 | 713.4 | 781.8 | 831.7 |
| 82.5° | 249.4 | 288.8 | 378.2 | 397.9 | 387.4 | 453.6 | 694.8 | 639.2 | 655.4 | 894.4 | 945.4 |
| 85° | 126.4 | 181.0 | 328.3 | 382.8 | 349.2 | 317.8 | 563.8 | 560.3 | 568.4 | 645.0 | 674.0 |
| 87.5° | 58.0 | 99.8 | 256.4 | 334.1 | 263.3 | 198.4 | 409.5 | 415.3 | 447.8 | 458.2 | 458.2 |
| 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)