

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: P191168

Luminaire Tested: **GAN-AF-10-LED-U-SL3-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SL3-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48697.6 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

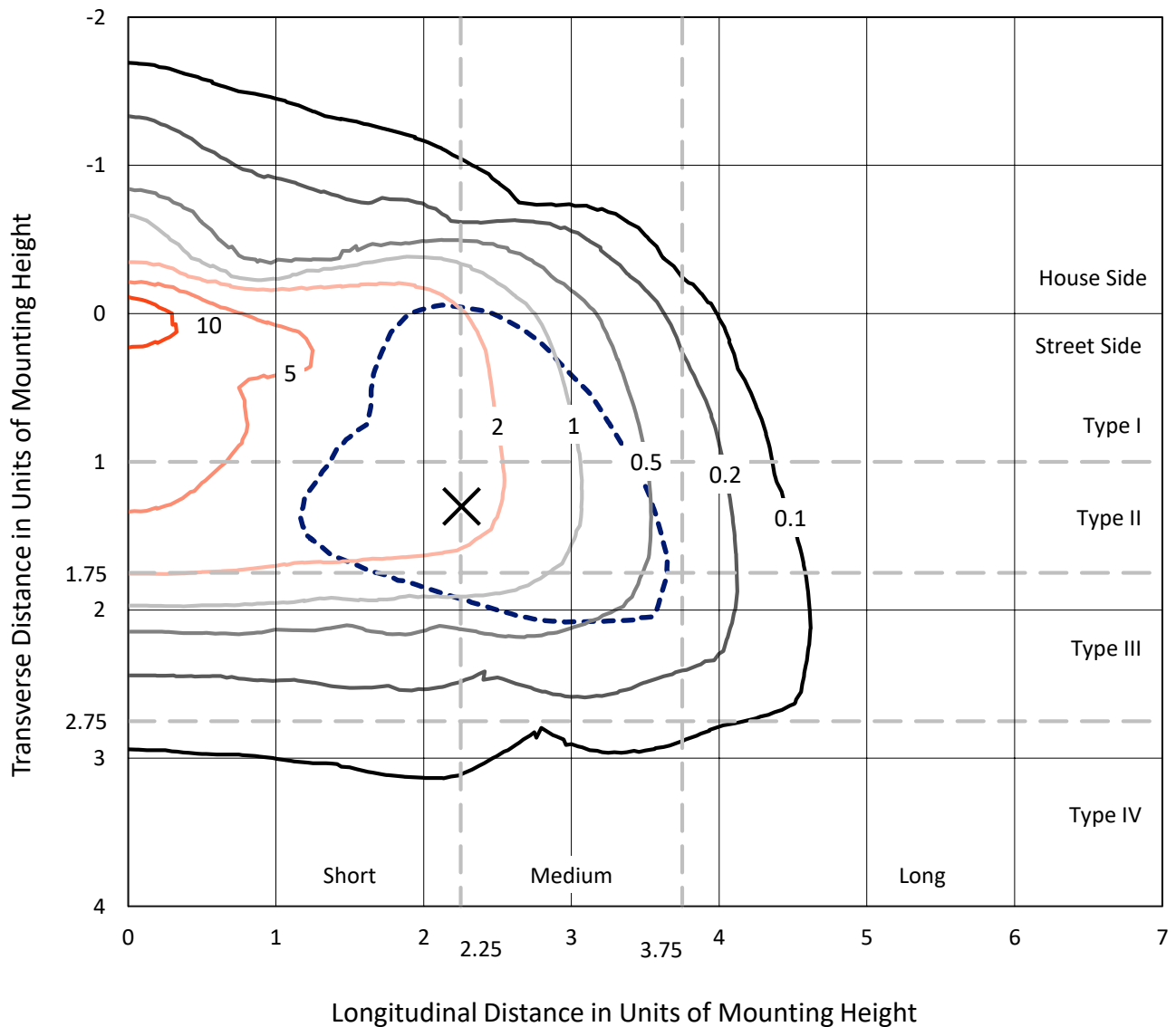
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

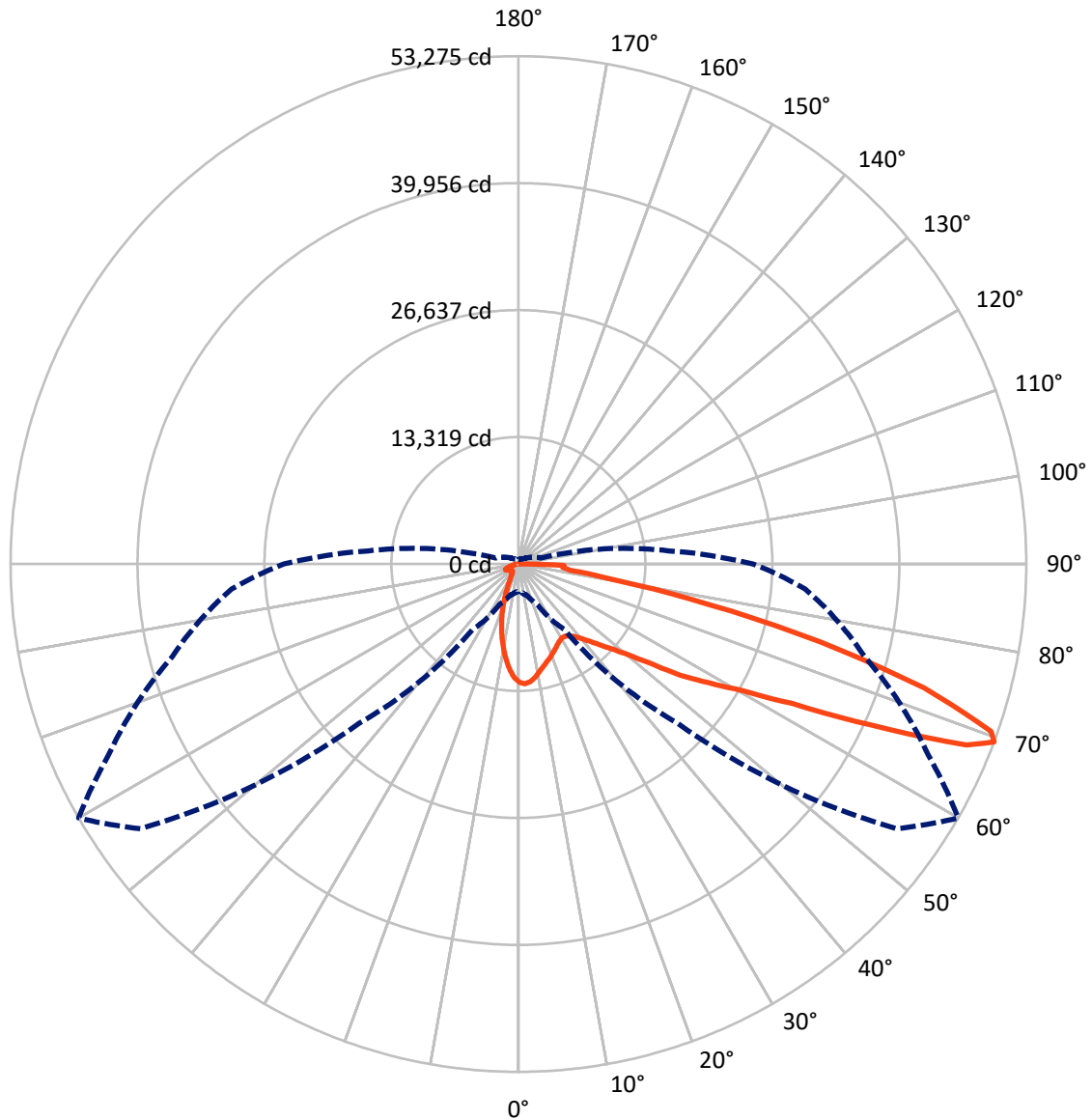
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6928.2 | 0.0 | 6928.2 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 41769.4 | 0.0 | 41769.4 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 48697.6 | 0.0 | 48697.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1049.2 | 2.2 |
| 10°-20° | 2235.4 | 4.6 |
| 20°-30° | 2848.3 | 5.8 |
| 30°-40° | 3915.7 | 8.0 |
| 40°-50° | 6353.7 | 13.0 |
| 50°-60° | 10189.6 | 20.9 |
| 60°-70° | 13561.6 | 27.8 |
| 70°-80° | 7322.2 | 15.0 |
| 80°-90° | 1221.8 | 2.5 |
| 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° | 48697.6 | 100.0 |
| 0°-180° | 48697.6 | 100.0 |

Coefficient of Utilization



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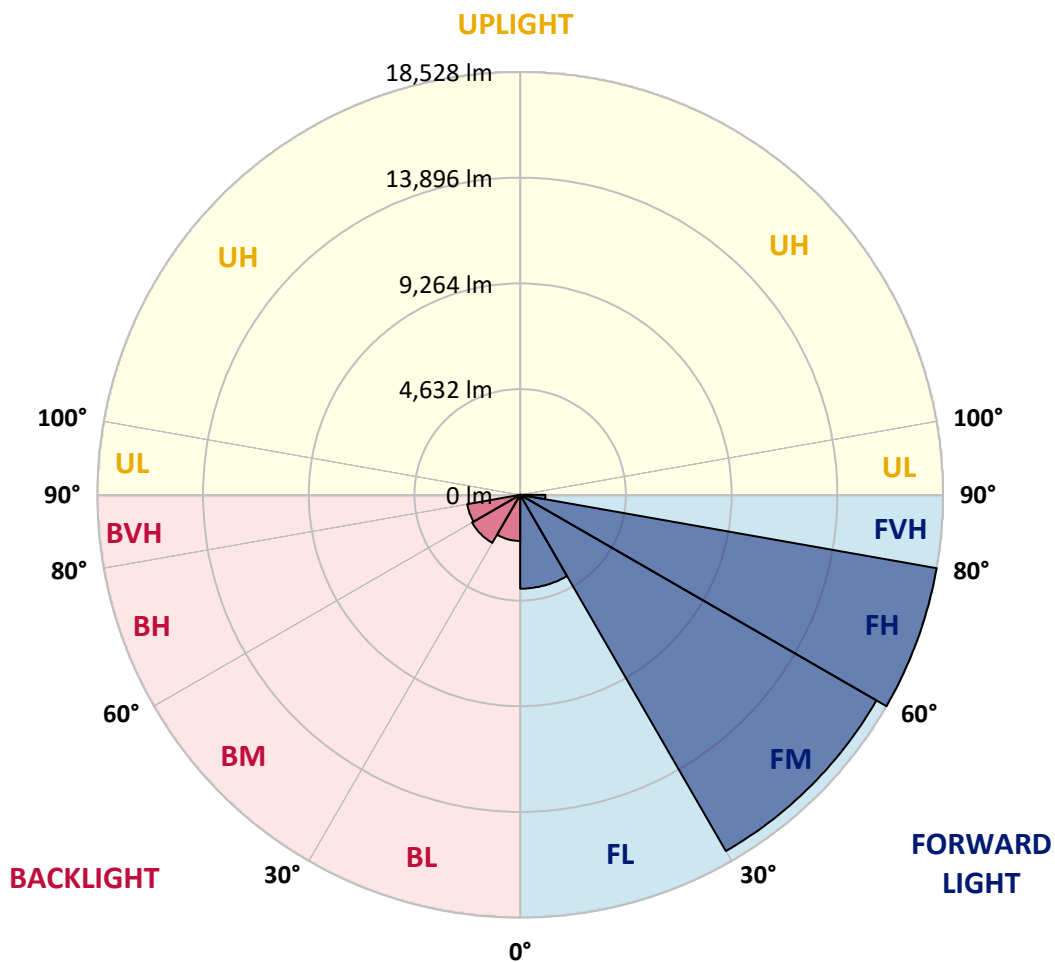
CATALOG NUMBER: GAN-AF-10-LED-U-SL3-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4111.8 | 8.4 | | | |
| FM (30°-60°) | 18025.0 | 37.0 | | | |
| FH (60°-80°) | 18528.5 | 38.0 | | | G5 |
| FVH (80°-90°) | 1104.1 | 2.3 | | | G5 |
| BL (0°-30°) | 2021.2 | 4.2 | B3/2500 | | |
| BM (30°-60°) | 2434.0 | 5.0 | B2/2500 | | |
| BH (60°-80°) | 2355.3 | 4.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 117.7 | 0.2 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12408.9 | 12408.9 | 12408.9 | 12408.9 | 12408.9 | 12408.9 | 12408.9 | 12408.9 | 12408.9 | 12408.9 | 12408.9 |
| 2.5° | 12662.9 | 12691.1 | 12679.4 | 12672.3 | 12693.5 | 12660.6 | 12592.3 | 12571.2 | 12538.3 | 12460.7 | 12328.9 |
| 5° | 12187.7 | 12272.4 | 12267.7 | 12331.3 | 12437.1 | 12465.4 | 12434.8 | 12439.5 | 12378.3 | 12281.9 | 12063.0 |
| 7.5° | 11366.7 | 11402.0 | 11420.8 | 11559.7 | 11752.6 | 11907.9 | 12039.5 | 12081.9 | 12053.6 | 11971.3 | 11689.1 |
| 10° | 10519.9 | 10548.2 | 10592.9 | 10755.1 | 10999.8 | 11213.9 | 11463.2 | 11606.7 | 11667.9 | 11653.8 | 11338.6 |
| 12.5° | 9793.0 | 9821.2 | 9880.1 | 10063.6 | 10355.2 | 10618.7 | 10981.0 | 11159.8 | 11305.7 | 11392.6 | 11053.9 |
| 15° | 9141.4 | 9202.6 | 9259.0 | 9470.8 | 9797.7 | 10143.5 | 10552.9 | 10778.6 | 11004.5 | 11199.8 | 10802.2 |
| 17.5° | 8633.3 | 8694.5 | 8727.4 | 8920.2 | 9268.4 | 9691.8 | 10171.7 | 10437.6 | 10719.9 | 11039.8 | 10552.9 |
| 20° | 8339.2 | 8367.4 | 8353.3 | 8461.5 | 8774.5 | 9223.7 | 9793.0 | 10101.2 | 10442.3 | 10889.2 | 10303.5 |
| 22.5° | 8257.0 | 8259.3 | 8207.5 | 8195.8 | 8398.0 | 8776.8 | 9388.4 | 9762.4 | 10181.1 | 10790.4 | 10089.5 |
| 25° | 8456.8 | 8449.8 | 8308.6 | 8193.4 | 8214.6 | 8435.7 | 8997.9 | 9433.1 | 9962.4 | 10769.2 | 9924.8 |
| 27.5° | 8901.4 | 8922.6 | 8713.3 | 8496.8 | 8282.7 | 8275.8 | 8701.5 | 9160.2 | 9783.6 | 10865.7 | 9854.2 |
| 30° | 9524.8 | 9560.1 | 9336.7 | 9061.4 | 8659.2 | 8327.4 | 8586.2 | 8997.9 | 9673.0 | 11065.7 | 9842.4 |
| 32.5° | 10207.0 | 10244.6 | 10075.3 | 9786.0 | 9259.0 | 8647.4 | 8666.2 | 9012.0 | 9668.3 | 11345.6 | 9922.4 |
| 35° | 10933.9 | 10976.3 | 10889.2 | 10644.6 | 10058.9 | 9237.9 | 8972.0 | 9240.2 | 9821.2 | 11773.8 | 10136.4 |
| 37.5° | 11745.5 | 11811.4 | 11834.9 | 11602.0 | 10976.3 | 10016.5 | 9473.1 | 9673.0 | 10167.0 | 12368.9 | 10529.3 |
| 40° | 12914.7 | 13006.4 | 12999.4 | 12665.3 | 12027.8 | 11068.0 | 10247.0 | 10298.8 | 10705.8 | 13164.0 | 11157.4 |
| 42.5° | 15154.1 | 15172.9 | 14587.2 | 13860.3 | 13185.2 | 12173.6 | 11159.8 | 11117.4 | 11449.1 | 14170.8 | 12081.9 |
| 45° | 18002.9 | 17925.3 | 16622.0 | 15217.6 | 14394.4 | 13443.9 | 12347.7 | 12140.7 | 12392.4 | 15398.8 | 13239.2 |
| 47.5° | 20367.1 | 20188.2 | 18541.6 | 16603.2 | 15674.0 | 14824.8 | 13742.7 | 13380.4 | 13519.2 | 16791.4 | 14735.4 |
| 50° | 21188.0 | 21054.0 | 19689.6 | 17755.9 | 16885.4 | 16509.1 | 15460.0 | 14947.2 | 14984.8 | 18452.2 | 16487.9 |
| 52.5° | 21011.6 | 20992.8 | 20082.4 | 18515.7 | 18019.4 | 18278.1 | 17892.3 | 17198.4 | 16831.4 | 20296.5 | 18379.3 |
| 55° | 20595.2 | 20635.2 | 20305.9 | 19400.2 | 19315.6 | 19985.9 | 21070.4 | 20557.5 | 19416.6 | 22157.2 | 20334.1 |
| 57.5° | 19148.5 | 19252.0 | 19976.5 | 20512.9 | 21402.1 | 22399.5 | 23629.8 | 23484.0 | 22199.6 | 24168.5 | 22658.3 |
| 60° | 15427.0 | 15666.9 | 17610.0 | 20296.5 | 23549.9 | 26669.1 | 27219.6 | 26880.8 | 25069.5 | 26664.4 | 25728.1 |
| 62.5° | 10809.2 | 11058.6 | 13368.6 | 17572.4 | 23196.9 | 31491.5 | 33636.9 | 32176.1 | 29190.8 | 30341.2 | 29701.4 |
| 65° | 5786.9 | 5906.8 | 7671.1 | 12192.4 | 19583.7 | 32486.6 | 43015.9 | 40792.8 | 35716.4 | 34874.2 | 33100.5 |
| 67.5° | 3192.2 | 3258.1 | 3933.2 | 6156.2 | 12543.0 | 28607.4 | 48991.0 | 50670.5 | 43872.1 | 37892.3 | 32481.9 |
| 69° | 2886.4 | 2947.5 | 3389.8 | 4662.4 | 8393.3 | 23653.3 | 48407.6 | 53274.7 | 47447.8 | 37593.6 | 30195.4 |
| 70° | 2822.8 | 2879.3 | 3276.9 | 4297.8 | 6793.7 | 19496.6 | 46452.7 | 52608.9 | 48299.3 | 36523.2 | 28200.5 |
| 72.5° | 2540.6 | 2601.8 | 2987.5 | 3860.3 | 5805.8 | 9720.1 | 36796.2 | 44481.4 | 43851.0 | 31667.9 | 21390.3 |
| 75° | 2368.8 | 2425.3 | 3079.3 | 3780.3 | 5558.7 | 6151.5 | 24257.8 | 32783.0 | 32234.8 | 22152.5 | 11533.8 |
| 77.5° | 1013.8 | 1009.1 | 1427.9 | 3199.3 | 5641.1 | 5956.2 | 13034.6 | 20480.0 | 18685.1 | 9468.4 | 3312.2 |
| 80° | 677.5 | 665.7 | 677.5 | 940.9 | 5173.0 | 5989.2 | 6829.0 | 10395.2 | 7852.3 | 2413.6 | 1632.5 |
| 82.5° | 583.4 | 574.0 | 595.2 | 574.0 | 1818.4 | 6836.1 | 5805.8 | 5528.1 | 3733.3 | 1371.5 | 809.3 |
| 85° | 392.8 | 376.3 | 512.8 | 515.2 | 858.7 | 6073.9 | 6539.6 | 4669.5 | 3020.5 | 814.0 | 399.9 |
| 87.5° | 188.2 | 183.5 | 298.8 | 364.6 | 503.4 | 2467.7 | 7337.1 | 4784.8 | 3046.3 | 416.3 | 190.6 |
| 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-10-LED-U-SL3-800

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12408.9 | 12408.9 | 12408.9 | 12408.9 | 12408.9 | 12408.9 | 12408.9 | 12408.9 | 12408.9 | 12408.9 | 12408.9 |
| 2.5° | 12288.9 | 12192.4 | 12098.3 | 11985.4 | 11867.9 | 11736.1 | 11670.2 | 11604.4 | 11587.9 | 11569.1 | 11503.2 |
| 5° | 11950.2 | 11813.8 | 11578.5 | 11319.8 | 11046.8 | 10781.0 | 10578.7 | 10451.7 | 10355.2 | 10305.8 | 10218.8 |
| 7.5° | 11512.6 | 11312.7 | 10901.0 | 10454.0 | 9995.4 | 9576.6 | 9214.3 | 8986.1 | 8769.8 | 8668.6 | 8553.3 |
| 10° | 11096.3 | 10797.5 | 10157.6 | 9499.0 | 8840.3 | 8207.5 | 7612.4 | 7191.2 | 6817.3 | 6607.9 | 6459.6 |
| 12.5° | 10738.6 | 10329.3 | 9442.6 | 8550.9 | 7647.7 | 6746.7 | 5855.1 | 5154.1 | 4568.4 | 4260.2 | 4102.5 |
| 15° | 10390.5 | 9896.5 | 8762.7 | 7631.2 | 6471.4 | 5245.8 | 4074.3 | 3279.3 | 2794.6 | 2601.8 | 2535.9 |
| 17.5° | 10075.3 | 9442.6 | 8080.5 | 6704.3 | 5257.6 | 3775.6 | 2738.2 | 2300.6 | 2114.8 | 2051.3 | 2030.1 |
| 20° | 9734.2 | 8983.8 | 7372.4 | 5735.2 | 3992.0 | 2639.4 | 2138.4 | 1945.4 | 1870.2 | 1851.3 | 1841.9 |
| 22.5° | 9404.9 | 8532.1 | 6694.9 | 4697.7 | 2867.5 | 2037.2 | 1837.2 | 1757.2 | 1745.5 | 1761.9 | 1761.9 |
| 25° | 9124.9 | 8127.5 | 5963.3 | 3613.3 | 2105.4 | 1714.9 | 1644.3 | 1625.5 | 1670.2 | 1731.3 | 1743.1 |
| 27.5° | 8915.5 | 7795.8 | 5184.7 | 2667.7 | 1677.2 | 1491.5 | 1489.1 | 1519.7 | 1630.2 | 1747.8 | 1771.3 |
| 30° | 8772.1 | 7480.6 | 4351.9 | 1924.3 | 1406.8 | 1312.7 | 1350.3 | 1416.2 | 1578.4 | 1745.5 | 1790.2 |
| 32.5° | 8699.2 | 7247.7 | 3483.9 | 1489.1 | 1204.4 | 1152.7 | 1216.2 | 1296.2 | 1456.2 | 1611.4 | 1670.2 |
| 35° | 8755.6 | 7076.0 | 2665.3 | 1242.1 | 1063.3 | 1023.3 | 1089.1 | 1166.8 | 1260.9 | 1326.8 | 1371.5 |
| 37.5° | 8967.3 | 7007.8 | 2011.3 | 1112.7 | 966.8 | 929.1 | 980.9 | 1025.6 | 1063.3 | 1082.1 | 1103.3 |
| 40° | 9423.7 | 7080.7 | 1611.4 | 1046.8 | 912.8 | 865.7 | 886.9 | 903.4 | 926.8 | 945.6 | 955.0 |
| 42.5° | 10096.5 | 7299.5 | 1444.4 | 1020.9 | 884.5 | 816.3 | 811.6 | 818.7 | 849.3 | 884.5 | 891.6 |
| 45° | 11037.4 | 7685.2 | 1432.6 | 1037.4 | 870.4 | 776.3 | 755.1 | 764.6 | 811.6 | 865.7 | 875.1 |
| 47.5° | 12239.5 | 8273.4 | 1526.8 | 1086.8 | 882.2 | 755.1 | 719.9 | 731.6 | 790.4 | 863.4 | 875.1 |
| 50° | 13695.7 | 9094.3 | 1684.3 | 1159.7 | 933.9 | 759.8 | 708.1 | 715.1 | 776.3 | 856.3 | 868.1 |
| 52.5° | 15415.3 | 10258.8 | 1856.0 | 1230.3 | 988.0 | 790.4 | 717.5 | 701.0 | 757.5 | 828.1 | 842.2 |
| 55° | 17327.8 | 11752.6 | 2032.5 | 1293.8 | 1016.2 | 828.1 | 736.3 | 682.2 | 722.2 | 781.0 | 792.8 |
| 57.5° | 19675.4 | 13841.4 | 2338.3 | 1355.0 | 1035.0 | 854.0 | 755.1 | 663.4 | 677.5 | 719.9 | 729.3 |
| 60° | 22853.5 | 16796.1 | 2876.9 | 1456.2 | 1077.4 | 863.4 | 752.8 | 646.9 | 632.8 | 656.3 | 661.0 |
| 62.5° | 26662.1 | 20004.7 | 3326.3 | 1583.1 | 1148.0 | 870.4 | 738.7 | 635.2 | 595.2 | 595.2 | 599.9 |
| 65° | 28922.7 | 20863.4 | 3076.9 | 1689.0 | 1206.8 | 863.4 | 722.2 | 623.4 | 566.9 | 541.0 | 543.4 |
| 67.5° | 27005.5 | 18348.7 | 2637.1 | 1710.2 | 1204.4 | 830.4 | 696.3 | 602.2 | 538.7 | 498.7 | 496.3 |
| 69° | 24603.7 | 15831.6 | 2439.4 | 1653.7 | 1148.0 | 788.1 | 663.4 | 578.7 | 517.5 | 475.2 | 472.8 |
| 70° | 22667.7 | 14295.5 | 2310.0 | 1592.5 | 1086.8 | 757.5 | 637.5 | 557.5 | 501.0 | 461.0 | 456.3 |
| 72.5° | 16480.9 | 9367.3 | 1973.7 | 1369.1 | 896.3 | 635.2 | 550.4 | 489.3 | 446.9 | 423.4 | 418.7 |
| 75° | 8235.8 | 4467.2 | 1601.9 | 1110.3 | 686.9 | 508.1 | 451.6 | 409.3 | 388.1 | 383.4 | 381.0 |
| 77.5° | 2705.3 | 2046.6 | 1145.6 | 828.1 | 510.5 | 397.5 | 364.6 | 334.0 | 329.3 | 343.4 | 338.7 |
| 80° | 1486.8 | 1190.3 | 726.9 | 548.1 | 348.1 | 291.7 | 287.0 | 270.6 | 277.6 | 301.2 | 296.5 |
| 82.5° | 757.5 | 618.7 | 449.3 | 329.3 | 235.3 | 209.4 | 228.2 | 218.8 | 228.2 | 249.4 | 247.0 |
| 85° | 374.0 | 338.7 | 284.7 | 200.0 | 155.3 | 134.1 | 162.3 | 169.4 | 174.1 | 190.6 | 190.6 |
| 87.5° | 216.5 | 200.0 | 150.6 | 94.1 | 77.6 | 70.6 | 94.1 | 91.8 | 108.2 | 117.6 | 115.3 |
| 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)