

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: P191298

Luminaire Tested: **GAN-AF-10-LED-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
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-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52965.3 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 558
Input Voltage (V): NR
Input Current (A_{in}): 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

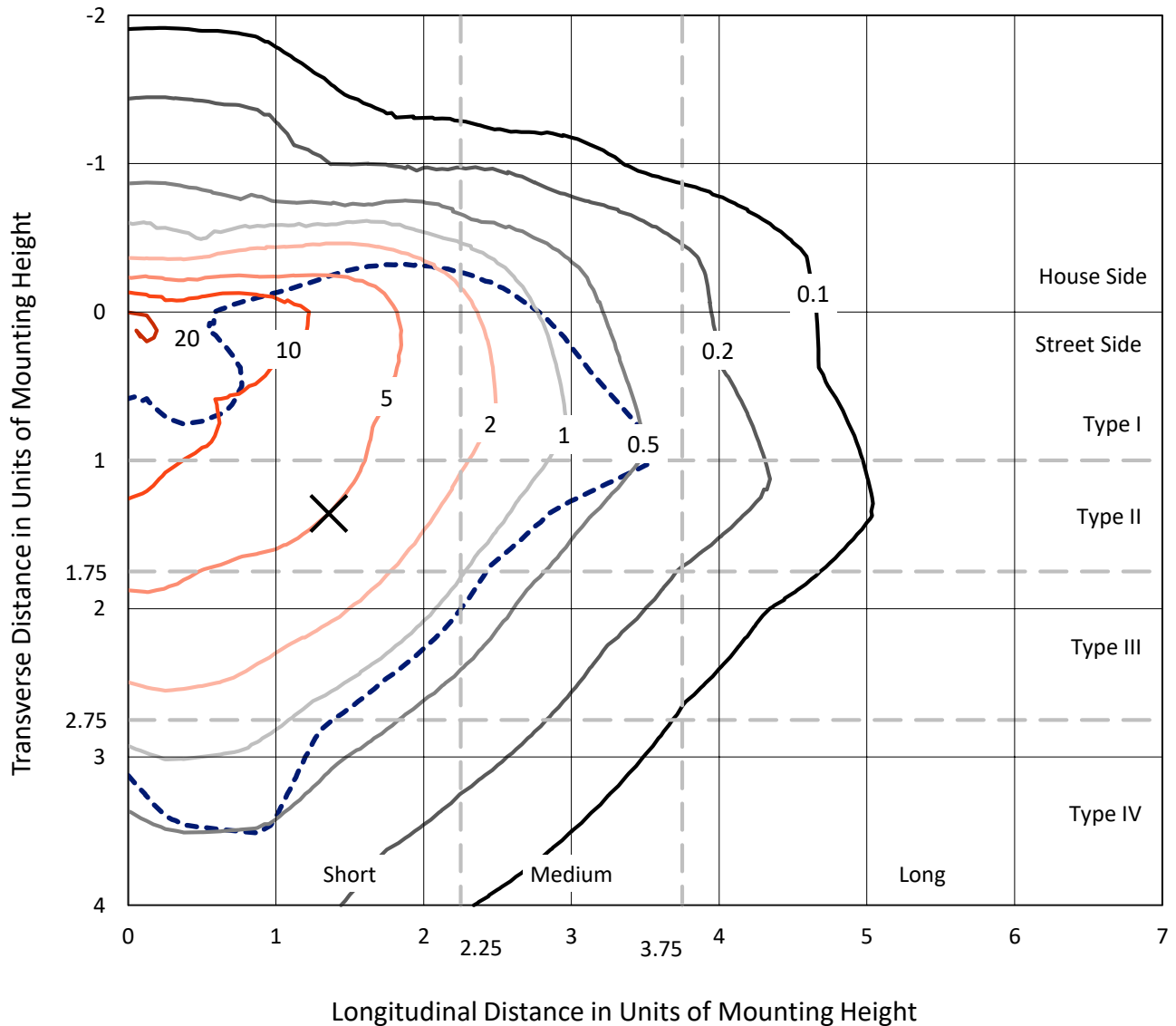


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

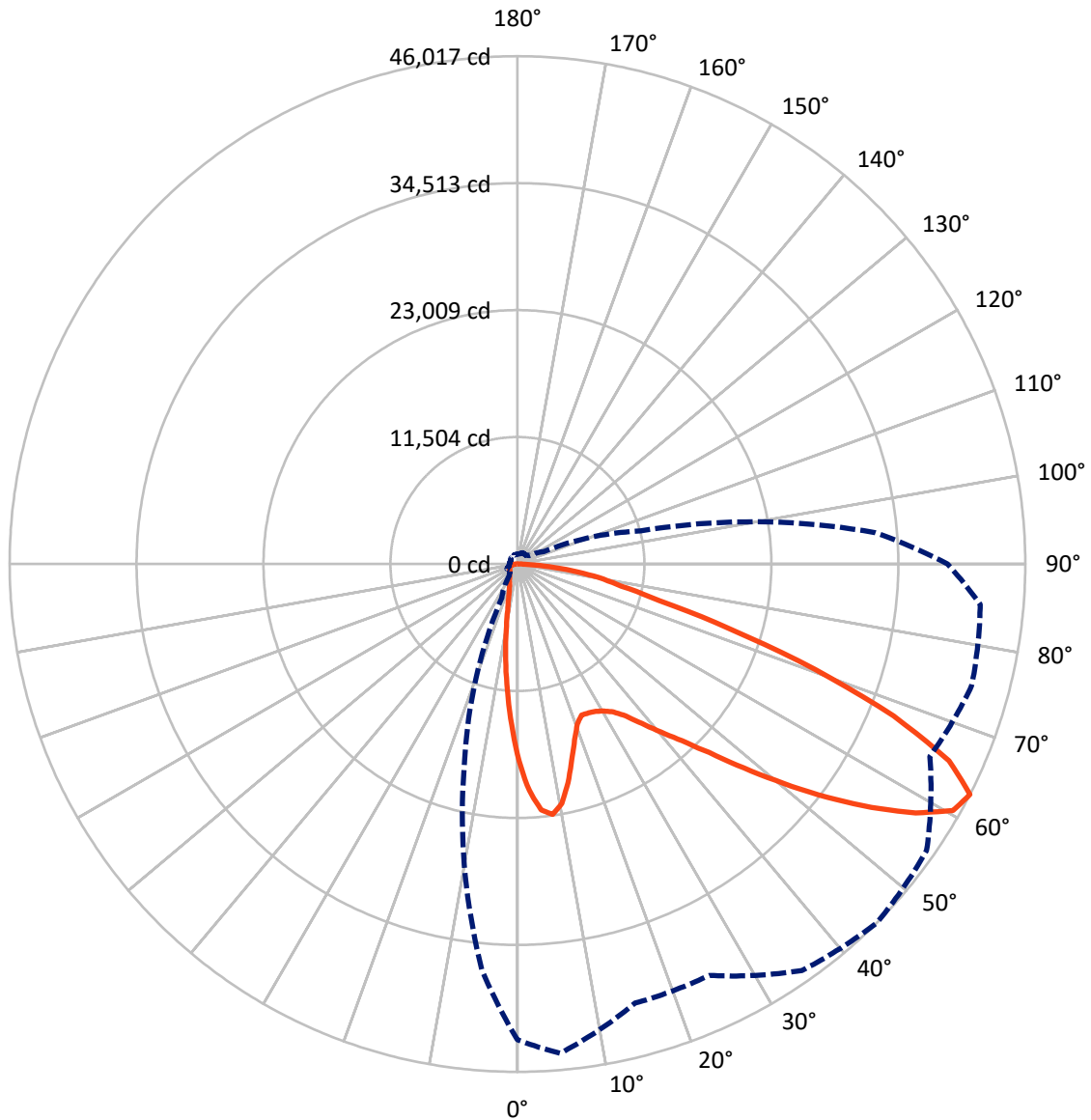


Based on 30 foot mounting height. Maximum calculated value = 23.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8765.0 | 0.0 | 8765.0 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 44200.3 | 0.0 | 44200.3 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 52965.3 | 0.0 | 52965.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1302.6 | 2.5 |
| 10°-20° | 2388.7 | 4.5 |
| 20°-30° | 3482.7 | 6.6 |
| 30°-40° | 5363.9 | 10.1 |
| 40°-50° | 7894.2 | 14.9 |
| 50°-60° | 11579.1 | 21.9 |
| 60°-70° | 12943.8 | 24.4 |
| 70°-80° | 6337.1 | 12.0 |
| 80°-90° | 1673.2 | 3.2 |
| 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° | 52965.3 | 100.0 |
| 0°-180° | 52965.3 | 100.0 |

Coefficient of Utilization



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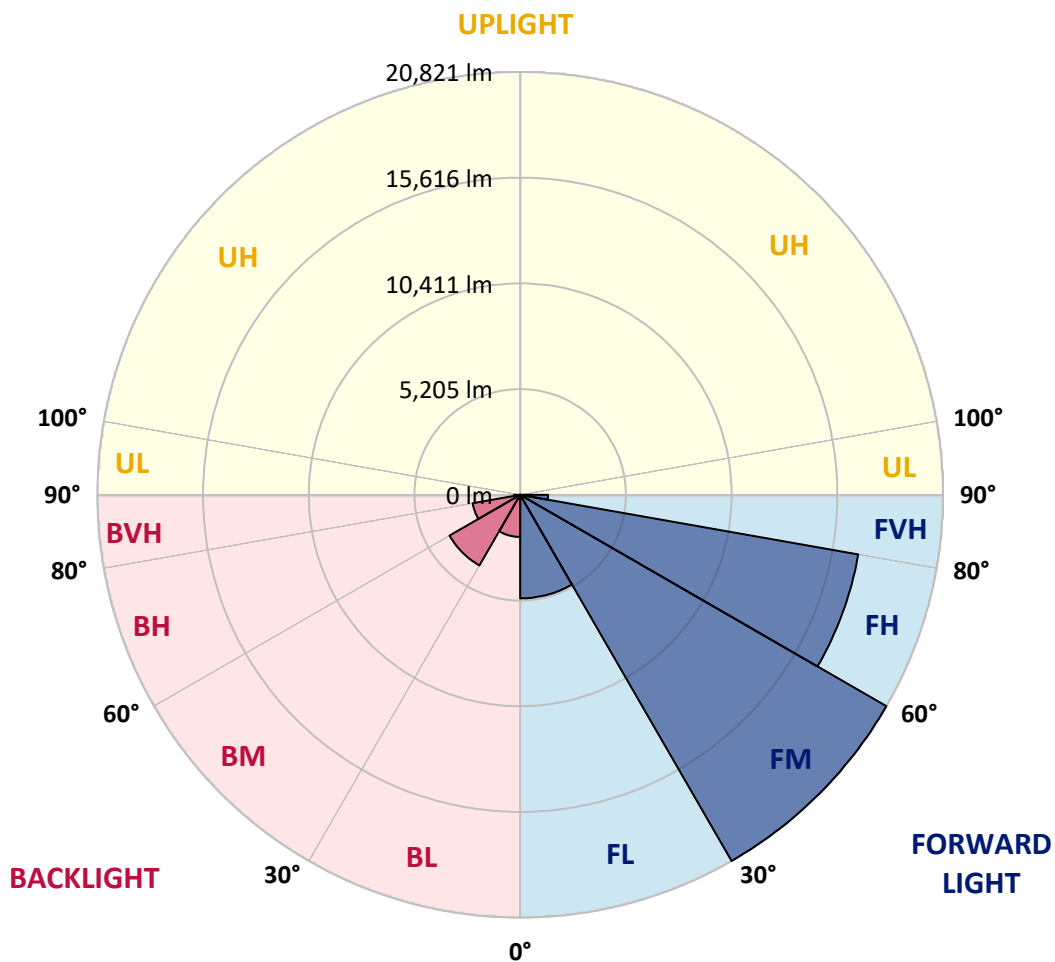
CATALOG NUMBER: GAN-AF-10-LED-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 5100.4 | 9.6 | | | |
| FM | (30°-60°) | 20821.1 | 39.3 | | | |
| FH | (60°-80°) | 16904.7 | 31.9 | | | G5 |
| FVH | (80°-90°) | 1374.1 | 2.6 | | | G5 |
| BL | (0°-30°) | 2073.7 | 3.9 | B3/2500 | | |
| BM | (30°-60°) | 4016.1 | 7.6 | B3/5000 | | |
| BH | (60°-80°) | 2376.2 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 299.1 | 0.6 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CATALOG NUMBER: GAN-AF-10-LED-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 |
| 2.5° | 18593.4 | 18890.3 | 19469.7 | 19903.6 | 20430.5 | 20552.8 | 20721.7 | 20555.7 | 20261.7 | 19871.5 | 19743.4 |
| 5° | 17484.0 | 18118.7 | 19525.1 | 20762.4 | 21863.0 | 22375.4 | 22518.1 | 22095.9 | 21242.8 | 20121.9 | 19437.7 |
| 7.5° | 15705.1 | 16607.6 | 18511.8 | 20334.4 | 21956.2 | 22914.1 | 22890.8 | 21909.6 | 20340.3 | 18514.7 | 17417.1 |
| 10° | 14170.6 | 15201.4 | 17385.0 | 19423.1 | 21143.9 | 22072.6 | 21714.5 | 20459.6 | 18587.5 | 16485.4 | 15294.5 |
| 12.5° | 13311.8 | 14322.0 | 16537.7 | 18584.6 | 20022.9 | 20343.2 | 20069.5 | 18840.8 | 17076.4 | 14950.9 | 13908.6 |
| 15° | 13163.2 | 14272.5 | 16200.0 | 17865.4 | 18671.9 | 18392.5 | 18066.3 | 17516.0 | 16269.9 | 14455.9 | 13370.0 |
| 17.5° | 13806.7 | 15029.5 | 16587.2 | 17364.6 | 17227.8 | 16741.5 | 16648.4 | 16709.5 | 16409.7 | 15006.3 | 13754.3 |
| 20° | 15041.2 | 16508.6 | 17510.3 | 17128.8 | 16130.1 | 15460.5 | 15483.8 | 16418.4 | 17306.4 | 16400.9 | 14971.3 |
| 22.5° | 16773.6 | 18447.7 | 18840.8 | 17254.0 | 15667.2 | 14872.4 | 15064.5 | 16578.6 | 18736.0 | 18439.0 | 16613.4 |
| 25° | 19015.5 | 20541.2 | 20258.7 | 17708.2 | 15713.8 | 14945.1 | 15099.5 | 17131.7 | 20424.7 | 20477.1 | 18645.7 |
| 27.5° | 21187.6 | 22602.5 | 21449.5 | 18310.9 | 15906.0 | 15116.9 | 15320.7 | 18002.3 | 22037.7 | 22689.9 | 20969.2 |
| 30° | 22882.1 | 23866.2 | 21921.2 | 18861.2 | 16284.5 | 15451.8 | 15705.1 | 18829.1 | 22771.4 | 24183.6 | 22756.9 |
| 32.5° | 24285.5 | 24992.9 | 22672.5 | 19542.5 | 16980.3 | 15978.7 | 16424.2 | 19833.7 | 23828.3 | 25604.4 | 24506.7 |
| 35° | 26079.0 | 26279.9 | 23607.0 | 20302.4 | 18054.7 | 16895.9 | 17449.1 | 20817.8 | 24835.7 | 27039.8 | 26230.4 |
| 37.5° | 28181.2 | 27922.0 | 24489.2 | 21341.8 | 19443.5 | 18331.3 | 18788.4 | 21898.0 | 25665.5 | 28667.4 | 27991.9 |
| 40° | 30260.0 | 29636.9 | 25595.7 | 22954.8 | 21470.0 | 20022.9 | 20564.5 | 23051.0 | 26440.0 | 30297.9 | 29712.6 |
| 42.5° | 32027.4 | 31104.4 | 26687.5 | 24728.0 | 23356.6 | 21889.2 | 22535.6 | 24212.6 | 27179.6 | 31689.6 | 31206.2 |
| 45° | 33334.6 | 32187.5 | 27726.9 | 26431.3 | 25956.7 | 24369.9 | 24675.6 | 25543.3 | 27980.3 | 32851.3 | 32434.9 |
| 47.5° | 34502.2 | 33276.4 | 28903.2 | 28149.2 | 28230.7 | 27595.9 | 27103.9 | 27092.2 | 28923.6 | 33800.4 | 33596.7 |
| 50° | 36065.7 | 34787.5 | 30166.8 | 29919.4 | 31643.0 | 31220.9 | 30134.8 | 28900.3 | 30117.3 | 34877.7 | 34854.5 |
| 52.5° | 38220.2 | 37180.8 | 31709.9 | 31826.5 | 34828.3 | 35104.9 | 33759.7 | 31072.3 | 31986.5 | 36854.7 | 36714.9 |
| 55° | 40767.9 | 40162.3 | 33812.1 | 34018.8 | 38735.6 | 38933.6 | 37597.1 | 33788.8 | 34735.1 | 39716.8 | 39329.6 |
| 57.5° | 42756.5 | 42628.4 | 36118.0 | 36650.9 | 41653.0 | 42543.9 | 41315.2 | 36933.3 | 37833.0 | 42127.6 | 41155.2 |
| 60° | 43548.4 | 44168.6 | 38572.5 | 39306.3 | 44352.0 | 45339.0 | 44261.8 | 39696.4 | 40578.6 | 43126.3 | 41029.9 |
| 62.5° | 43120.4 | 44506.3 | 41187.2 | 41126.0 | 44954.7 | 46017.4 | 45260.5 | 41233.7 | 42613.8 | 42095.6 | 38954.0 |
| 65° | 41143.5 | 43292.2 | 42704.1 | 40657.3 | 42893.4 | 42980.7 | 42736.1 | 40546.6 | 43094.3 | 38837.5 | 34941.9 |
| 67.5° | 36837.3 | 39929.4 | 40706.7 | 36639.2 | 37332.2 | 36764.4 | 36353.9 | 36784.8 | 40590.3 | 33954.8 | 29366.2 |
| 70° | 30003.8 | 34656.4 | 35029.1 | 29305.0 | 28990.5 | 28609.2 | 27791.0 | 30158.1 | 35649.3 | 27828.9 | 23301.3 |
| 72.5° | 22061.0 | 26952.4 | 28096.7 | 21493.2 | 20037.5 | 20116.0 | 19469.7 | 22727.7 | 28984.7 | 20672.2 | 17396.7 |
| 75° | 15093.6 | 19516.3 | 21982.4 | 14997.5 | 13250.6 | 13282.6 | 13201.1 | 16103.9 | 23085.9 | 14380.2 | 13017.7 |
| 77.5° | 11026.2 | 13943.5 | 16578.6 | 10082.8 | 9788.7 | 9608.2 | 9564.5 | 11267.8 | 17699.5 | 10441.0 | 10109.0 |
| 80° | 8848.3 | 10301.1 | 11136.8 | 6987.8 | 7514.8 | 7500.2 | 7258.6 | 7747.7 | 11558.9 | 7637.0 | 7561.3 |
| 82.5° | 6137.6 | 7916.6 | 9022.9 | 5476.7 | 5072.0 | 4987.5 | 5045.8 | 5770.8 | 8169.9 | 5220.4 | 4964.3 |
| 85° | 3237.6 | 5258.3 | 8935.6 | 4853.6 | 3010.5 | 2402.1 | 2987.3 | 4725.5 | 7078.0 | 2766.0 | 2422.4 |
| 87.5° | 413.5 | 1519.8 | 5916.3 | 1936.2 | 1188.0 | 640.6 | 1417.9 | 2661.2 | 4545.0 | 564.9 | 492.0 |
| 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-SLL

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 |
| 2.5° | 19414.4 | 19027.2 | 18520.5 | 18051.8 | 17565.5 | 17082.3 | 16450.4 | 16054.4 | 15780.8 | 15728.3 | 15611.9 |
| 5° | 18942.7 | 17655.8 | 16683.3 | 15841.9 | 15079.0 | 14001.7 | 13404.8 | 12909.9 | 12645.0 | 12618.8 | 12554.7 |
| 7.5° | 16767.8 | 14991.7 | 13678.6 | 12487.8 | 11407.5 | 10537.0 | 9576.1 | 9127.8 | 8944.4 | 8988.1 | 9031.7 |
| 10° | 14505.4 | 12519.8 | 11011.6 | 9794.5 | 8842.5 | 8108.7 | 7337.2 | 6816.0 | 6454.9 | 6382.2 | 6367.7 |
| 12.5° | 12851.7 | 10673.9 | 9209.3 | 8350.3 | 7613.7 | 6923.7 | 6105.6 | 5491.2 | 5022.5 | 4862.3 | 4754.6 |
| 15° | 12153.0 | 9771.2 | 8236.8 | 7310.9 | 6498.6 | 5622.2 | 4862.3 | 4218.9 | 3788.0 | 3648.3 | 3569.6 |
| 17.5° | 12301.4 | 9520.8 | 7567.2 | 6382.2 | 5342.8 | 4428.5 | 3470.6 | 2920.3 | 2661.2 | 2594.2 | 2594.2 |
| 20° | 13081.7 | 9474.3 | 7014.0 | 5526.2 | 4230.5 | 3170.7 | 2384.6 | 2070.1 | 1985.6 | 1977.0 | 2000.3 |
| 22.5° | 14176.5 | 9637.3 | 6600.6 | 4783.7 | 3287.2 | 2314.7 | 1857.6 | 1741.2 | 1703.3 | 1712.0 | 1738.2 |
| 25° | 15806.9 | 10187.6 | 6300.7 | 4122.8 | 2579.7 | 1895.4 | 1656.7 | 1586.8 | 1569.3 | 1592.6 | 1624.7 |
| 27.5° | 17740.2 | 10737.9 | 6114.3 | 3624.9 | 2177.9 | 1732.4 | 1575.1 | 1502.4 | 1514.1 | 1543.1 | 1572.3 |
| 30° | 19437.7 | 11189.1 | 5820.3 | 3269.7 | 2052.7 | 1741.2 | 1575.1 | 1476.1 | 1464.6 | 1470.4 | 1479.1 |
| 32.5° | 20960.5 | 11494.9 | 5476.7 | 2932.0 | 1770.2 | 1546.1 | 1470.4 | 1455.8 | 1391.7 | 1368.4 | 1371.4 |
| 35° | 22273.5 | 11494.9 | 5269.9 | 2733.9 | 1586.8 | 1371.4 | 1249.0 | 1176.3 | 1144.3 | 1147.1 | 1179.2 |
| 37.5° | 23540.0 | 11264.8 | 5168.0 | 2623.4 | 1487.8 | 1304.4 | 1196.6 | 1132.6 | 1088.9 | 1080.2 | 1086.1 |
| 40° | 24658.1 | 10930.0 | 5051.5 | 2576.7 | 1412.1 | 1263.7 | 1161.8 | 1109.3 | 1062.7 | 1048.2 | 1051.1 |
| 42.5° | 25554.8 | 10659.2 | 4923.5 | 2515.6 | 1365.5 | 1234.5 | 1138.4 | 1091.8 | 1039.4 | 1024.9 | 1021.9 |
| 45° | 26524.4 | 10569.0 | 4754.6 | 2393.3 | 1388.9 | 1237.5 | 1132.6 | 1083.1 | 1030.7 | 1013.2 | 1007.4 |
| 47.5° | 27802.7 | 10851.5 | 4580.0 | 2247.7 | 1438.3 | 1252.0 | 1141.3 | 1083.1 | 1027.8 | 1013.2 | 1007.4 |
| 50° | 29412.7 | 11515.3 | 4358.6 | 2035.2 | 1388.9 | 1292.7 | 1138.4 | 1074.4 | 1027.8 | 1013.2 | 1001.6 |
| 52.5° | 31480.0 | 12412.1 | 4067.5 | 1790.6 | 1359.7 | 1391.7 | 1132.6 | 1056.9 | 1013.2 | 992.9 | 972.4 |
| 55° | 33992.7 | 13145.7 | 3721.0 | 1589.8 | 1292.7 | 1365.5 | 1123.9 | 1036.6 | 989.9 | 960.9 | 943.4 |
| 57.5° | 35832.7 | 13410.7 | 3275.5 | 1458.7 | 1199.6 | 1321.9 | 1112.3 | 1010.3 | 960.9 | 937.5 | 914.2 |
| 60° | 35468.8 | 12898.3 | 2900.0 | 1377.2 | 1144.3 | 1193.8 | 1103.5 | 987.0 | 934.6 | 917.2 | 896.7 |
| 62.5° | 32554.3 | 11558.9 | 2658.2 | 1339.3 | 1109.3 | 1088.9 | 1112.3 | 963.7 | 911.3 | 893.9 | 888.0 |
| 65° | 28184.0 | 9582.0 | 2562.2 | 1330.6 | 1080.2 | 1027.8 | 1033.6 | 937.5 | 885.2 | 870.5 | 864.7 |
| 67.5° | 23248.9 | 7733.1 | 2477.8 | 1359.7 | 1042.4 | 984.1 | 955.0 | 902.5 | 858.9 | 844.3 | 832.7 |
| 70° | 18334.1 | 6431.7 | 2439.9 | 1342.2 | 995.7 | 940.4 | 908.4 | 864.7 | 826.9 | 812.3 | 803.6 |
| 72.5° | 14764.6 | 5433.0 | 2419.5 | 1324.7 | 934.6 | 882.2 | 853.1 | 815.3 | 774.5 | 768.6 | 760.0 |
| 75° | 12493.6 | 4271.3 | 2215.7 | 1269.5 | 864.7 | 812.3 | 792.0 | 757.0 | 716.3 | 716.3 | 710.4 |
| 77.5° | 9637.3 | 3089.2 | 1843.1 | 1123.9 | 792.0 | 733.8 | 716.3 | 690.1 | 643.4 | 652.2 | 649.3 |
| 80° | 7118.8 | 2014.8 | 1441.2 | 931.7 | 701.6 | 646.4 | 637.6 | 611.4 | 561.9 | 573.6 | 573.6 |
| 82.5° | 4876.9 | 1321.9 | 1036.6 | 762.8 | 599.8 | 547.4 | 547.4 | 521.2 | 465.9 | 471.7 | 489.2 |
| 85° | 2448.6 | 908.4 | 774.5 | 591.1 | 465.9 | 439.7 | 439.7 | 419.3 | 364.0 | 366.8 | 390.2 |
| 87.5° | 745.3 | 547.4 | 512.4 | 422.2 | 334.8 | 329.0 | 314.5 | 299.9 | 264.9 | 262.1 | 276.6 |
| 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-SLL

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 |
| 2.5° | 15434.3 | 15268.3 | 15067.3 | 14624.8 | 14476.4 | 14467.6 | 14601.5 | 14461.8 | 14729.7 | 14616.1 | 14741.3 |
| 5° | 12447.0 | 12283.9 | 12059.8 | 11494.9 | 11151.3 | 10918.4 | 10807.8 | 10481.7 | 10717.6 | 10545.7 | 10688.4 |
| 7.5° | 9154.0 | 9191.8 | 9043.4 | 8711.4 | 7963.2 | 7587.5 | 7366.3 | 7168.3 | 7340.1 | 7322.6 | 7596.3 |
| 10° | 6434.6 | 6536.5 | 6431.7 | 6096.8 | 5491.2 | 5284.5 | 5325.3 | 5403.8 | 5628.1 | 5744.6 | 6166.8 |
| 12.5° | 4632.3 | 4626.5 | 4559.5 | 4259.7 | 3860.7 | 3884.0 | 4050.0 | 4186.8 | 4393.6 | 4515.8 | 4946.8 |
| 15° | 3458.9 | 3406.5 | 3377.5 | 3132.9 | 2905.8 | 2955.2 | 3036.7 | 3051.4 | 3182.4 | 3255.1 | 3604.6 |
| 17.5° | 2614.6 | 2640.7 | 2672.9 | 2498.1 | 2326.4 | 2294.3 | 2230.2 | 2151.7 | 2189.5 | 2204.0 | 2378.8 |
| 20° | 2076.0 | 2180.7 | 2259.4 | 2137.0 | 1962.4 | 1869.2 | 1787.7 | 1735.3 | 1735.3 | 1732.4 | 1781.9 |
| 22.5° | 1813.9 | 1889.6 | 1974.1 | 1889.6 | 1732.4 | 1650.8 | 1604.3 | 1563.5 | 1557.6 | 1557.6 | 1604.3 |
| 25° | 1671.2 | 1726.5 | 1808.1 | 1749.9 | 1633.3 | 1572.3 | 1528.6 | 1476.1 | 1455.8 | 1449.9 | 1481.9 |
| 27.5° | 1601.3 | 1624.7 | 1665.5 | 1613.0 | 1514.1 | 1484.9 | 1473.3 | 1426.7 | 1400.4 | 1385.9 | 1417.9 |
| 30° | 1481.9 | 1476.1 | 1479.1 | 1426.7 | 1348.0 | 1345.2 | 1365.5 | 1374.2 | 1365.5 | 1362.6 | 1412.1 |
| 32.5° | 1371.4 | 1359.7 | 1356.8 | 1310.2 | 1237.5 | 1220.0 | 1237.5 | 1254.9 | 1275.3 | 1304.4 | 1362.6 |
| 35° | 1231.6 | 1260.7 | 1278.2 | 1237.5 | 1150.1 | 1097.6 | 1077.3 | 1045.3 | 1027.8 | 1027.8 | 1094.8 |
| 37.5° | 1120.9 | 1188.0 | 1214.1 | 1176.3 | 1080.2 | 1007.4 | 972.4 | 966.7 | 969.6 | 981.2 | 1045.3 |
| 40° | 1083.1 | 1132.6 | 1155.9 | 1118.1 | 1021.9 | 955.0 | 934.6 | 928.8 | 934.6 | 952.1 | 1016.1 |
| 42.5° | 1059.8 | 1094.8 | 1091.8 | 1045.3 | 966.7 | 920.0 | 908.4 | 902.5 | 908.4 | 925.9 | 995.7 |
| 45° | 1039.4 | 1062.7 | 1039.4 | 984.1 | 911.3 | 888.0 | 891.0 | 888.0 | 893.9 | 911.3 | 978.2 |
| 47.5° | 1021.9 | 1030.7 | 1001.6 | 946.2 | 870.5 | 864.7 | 876.4 | 885.2 | 891.0 | 905.5 | 975.4 |
| 50° | 995.7 | 995.7 | 969.6 | 911.3 | 835.6 | 838.5 | 853.1 | 873.5 | 876.4 | 893.9 | 949.2 |
| 52.5° | 963.7 | 960.9 | 943.4 | 888.0 | 806.5 | 815.3 | 815.3 | 838.5 | 844.3 | 864.7 | 923.0 |
| 55° | 937.5 | 931.7 | 923.0 | 870.5 | 780.3 | 794.8 | 786.1 | 794.8 | 809.5 | 829.8 | 893.9 |
| 57.5° | 914.2 | 902.5 | 902.5 | 856.0 | 760.0 | 765.8 | 745.3 | 757.0 | 774.5 | 792.0 | 858.9 |
| 60° | 891.0 | 879.3 | 885.2 | 835.6 | 727.9 | 722.1 | 713.3 | 736.6 | 742.5 | 762.8 | 829.8 |
| 62.5° | 864.7 | 856.0 | 858.9 | 812.3 | 704.6 | 690.1 | 690.1 | 710.4 | 713.3 | 742.5 | 806.5 |
| 65° | 844.3 | 832.7 | 829.8 | 789.0 | 678.4 | 660.9 | 669.6 | 678.4 | 684.3 | 713.3 | 774.5 |
| 67.5° | 824.0 | 800.7 | 800.7 | 768.6 | 649.3 | 631.8 | 649.3 | 646.4 | 655.1 | 681.3 | 730.8 |
| 70° | 797.8 | 765.8 | 768.6 | 754.1 | 620.2 | 599.8 | 614.4 | 611.4 | 617.2 | 634.7 | 684.3 |
| 72.5° | 757.0 | 730.8 | 736.6 | 730.8 | 591.1 | 561.9 | 567.7 | 567.7 | 567.7 | 582.4 | 634.7 |
| 75° | 704.6 | 684.3 | 701.6 | 716.3 | 556.1 | 515.4 | 521.2 | 521.2 | 512.4 | 521.2 | 585.2 |
| 77.5° | 640.6 | 628.9 | 687.1 | 666.8 | 515.4 | 465.9 | 465.9 | 460.0 | 442.5 | 454.2 | 524.1 |
| 80° | 570.7 | 561.9 | 634.7 | 559.0 | 468.7 | 404.7 | 398.8 | 384.3 | 366.8 | 375.6 | 445.5 |
| 82.5° | 497.9 | 489.2 | 532.9 | 428.0 | 404.7 | 334.8 | 320.3 | 294.1 | 276.6 | 285.3 | 349.4 |
| 85° | 407.6 | 407.6 | 410.5 | 323.2 | 308.6 | 256.2 | 238.8 | 203.8 | 183.4 | 189.2 | 250.4 |
| 87.5° | 291.1 | 299.9 | 276.6 | 221.3 | 183.4 | 142.7 | 131.0 | 110.7 | 93.2 | 107.7 | 131.0 |
| 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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| 37.5° | 1118.1 | 1225.8 | 1348.0 | 2492.3 | 4993.3 | 12508.1 | 24399.0 | 28181.2 |
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| 65° | 824.0 | 832.7 | 920.0 | 1365.5 | 3258.1 | 16156.3 | 33742.2 | 41143.5 |
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| 75° | 602.7 | 637.6 | 719.1 | 1324.7 | 2600.0 | 4859.4 | 13521.4 | 15093.6 |
| 77.5° | 535.7 | 561.9 | 631.8 | 1021.9 | 1930.4 | 3109.6 | 10149.7 | 11026.2 |
| 80° | 457.2 | 471.7 | 529.9 | 748.3 | 1321.9 | 1944.9 | 8030.2 | 8848.3 |
| 82.5° | 366.8 | 372.7 | 410.5 | 561.9 | 858.9 | 1249.0 | 5377.7 | 6137.6 |
| 85° | 259.1 | 259.1 | 282.4 | 407.6 | 585.2 | 792.0 | 2920.3 | 3237.6 |
| 87.5° | 122.2 | 125.2 | 125.2 | 224.2 | 305.8 | 401.8 | 672.6 | 413.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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