

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: P192148

Luminaire Tested: **GAN-AF-10-LED-U-SLR-7050-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192148
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-SLR-7050-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56798 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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

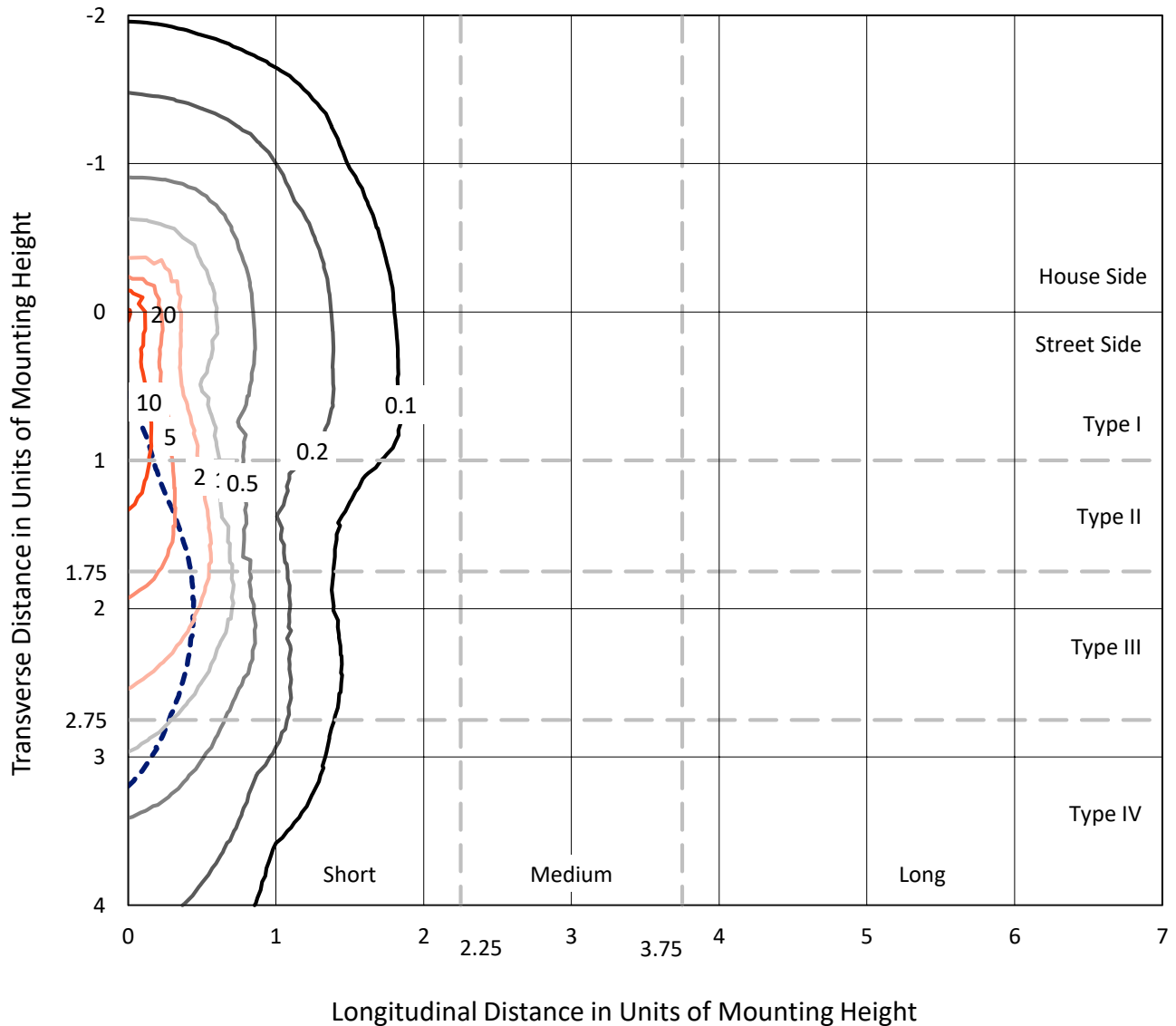


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

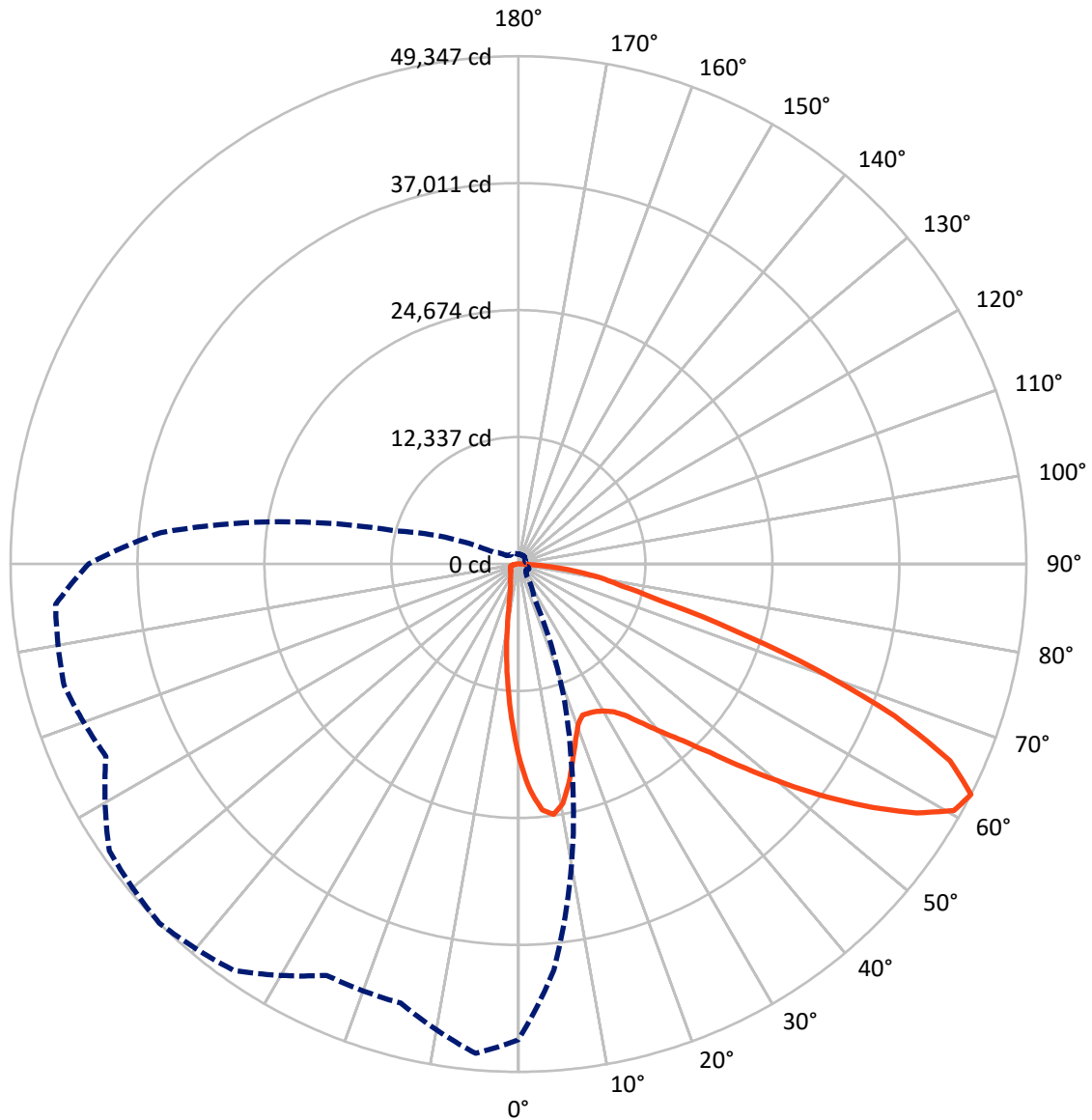


Based on 30 foot mounting height. Maximum calculated value = 21.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9399.3 | 0.0 | 9399.3 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 47398.7 | 0.0 | 47398.7 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 56798.0 | 0.0 | 56798.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1396.9 | 2.5 |
| 10°-20° | 2561.5 | 4.5 |
| 20°-30° | 3734.7 | 6.6 |
| 30°-40° | 5752.0 | 10.1 |
| 40°-50° | 8465.5 | 14.9 |
| 50°-60° | 12417.0 | 21.9 |
| 60°-70° | 13880.4 | 24.4 |
| 70°-80° | 6795.7 | 12.0 |
| 80°-90° | 1794.2 | 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° | 56798.0 | 100.0 |
| 0°-180° | 56798.0 | 100.0 |

Coefficient of Utilization



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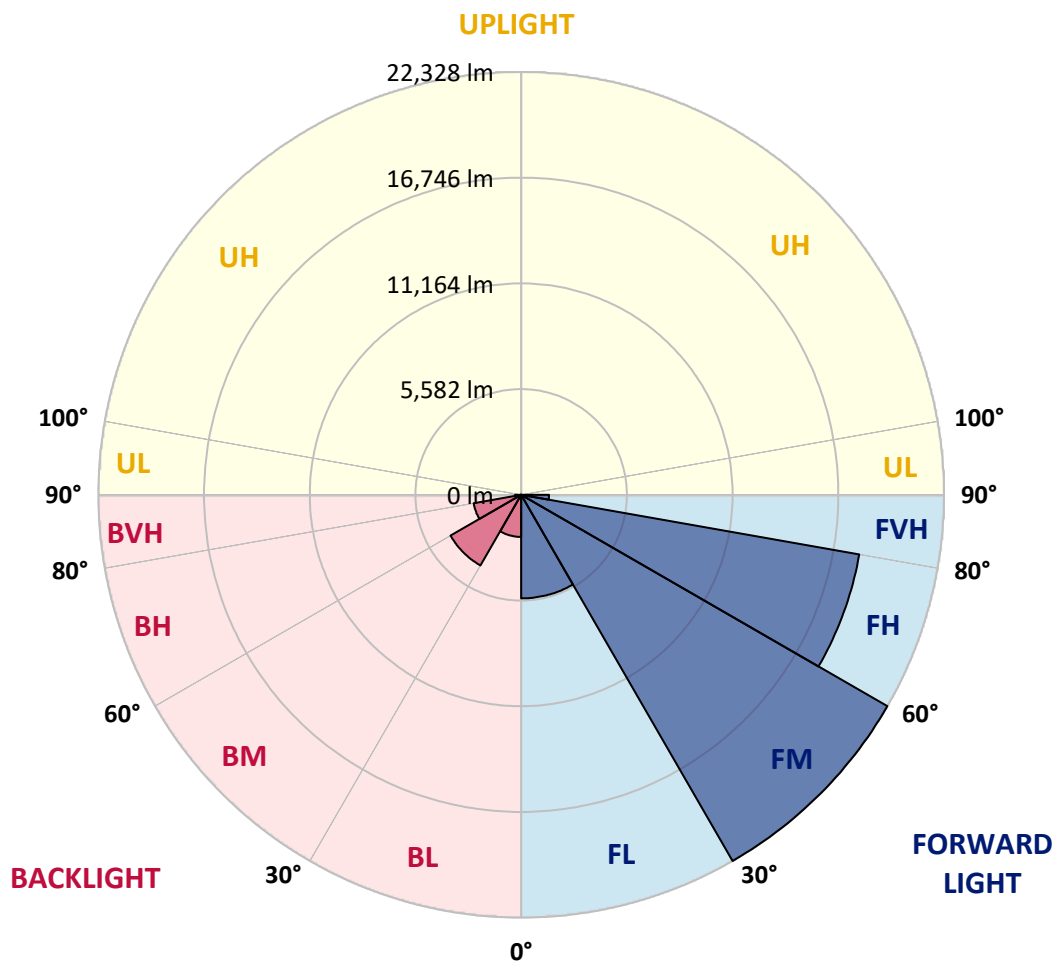
CATALOG NUMBER: GAN-AF-10-LED-U-SLR-7050-1200-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5469.5 | 9.6 | | | |
| FM (30°-60°) | 22327.8 | 39.3 | | | |
| FH (60°-80°) | 18128.0 | 31.9 | | | G5 |
| FVH (80°-90°) | 1473.5 | 2.6 | | | G5 |
| BL (0°-30°) | 2223.7 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 4306.7 | 7.6 | B3/5000 | | |
| BH (60°-80°) | 2548.1 | 4.5 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 320.7 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 |
| 2.5° | 19938.8 | 19532.9 | 18858.5 | 18156.0 | 17728.2 | 17228.6 | 16838.4 | 16494.9 | 15808.0 | 15673.8 | 15795.5 |
| 5° | 18749.2 | 17934.3 | 16663.5 | 15383.4 | 14531.0 | 13616.2 | 12904.3 | 12332.9 | 11461.8 | 11308.8 | 11493.0 |
| 7.5° | 16841.5 | 15867.3 | 14187.6 | 12554.6 | 11349.4 | 10206.7 | 9438.6 | 8826.6 | 8146.0 | 7852.5 | 7871.2 |
| 10° | 15196.1 | 14097.0 | 12111.3 | 10334.7 | 9348.1 | 8576.9 | 7930.5 | 7303.0 | 6613.0 | 6160.2 | 6035.3 |
| 12.5° | 14275.0 | 13010.5 | 10721.8 | 9135.7 | 8220.9 | 7409.1 | 6712.9 | 6041.6 | 5304.7 | 4842.6 | 4711.5 |
| 15° | 14115.7 | 12742.0 | 10200.4 | 8367.7 | 7221.8 | 6194.6 | 5373.4 | 4624.1 | 3865.4 | 3490.7 | 3412.6 |
| 17.5° | 14805.8 | 13222.8 | 10031.8 | 7683.9 | 6282.0 | 5014.4 | 4005.9 | 3169.1 | 2550.9 | 2363.6 | 2347.9 |
| 20° | 16129.6 | 14147.0 | 10010.0 | 7040.7 | 5354.7 | 3868.5 | 2791.3 | 2182.5 | 1910.8 | 1857.7 | 1860.9 |
| 22.5° | 17987.4 | 15580.1 | 10278.5 | 6556.8 | 4502.3 | 2885.0 | 2098.2 | 1826.5 | 1720.4 | 1670.4 | 1670.4 |
| 25° | 20391.5 | 17553.4 | 10896.7 | 6203.9 | 3762.3 | 2304.2 | 1851.5 | 1689.1 | 1589.2 | 1554.9 | 1561.1 |
| 27.5° | 22720.7 | 19473.5 | 11614.8 | 5926.1 | 3278.4 | 2091.9 | 1754.7 | 1608.0 | 1520.5 | 1486.2 | 1501.8 |
| 30° | 24537.9 | 21178.3 | 12214.3 | 5548.3 | 3031.7 | 2032.6 | 1789.1 | 1639.2 | 1514.3 | 1461.2 | 1464.3 |
| 32.5° | 26042.8 | 22670.7 | 12717.0 | 5276.6 | 2813.2 | 1742.2 | 1542.4 | 1476.8 | 1461.2 | 1398.8 | 1367.6 |
| 35° | 27966.1 | 24297.4 | 13054.2 | 5282.9 | 2710.1 | 1554.9 | 1373.8 | 1258.3 | 1174.0 | 1102.2 | 1102.2 |
| 37.5° | 30220.4 | 26164.6 | 13413.2 | 5354.7 | 2672.7 | 1445.6 | 1314.5 | 1198.9 | 1120.9 | 1052.2 | 1039.7 |
| 40° | 32449.7 | 27994.2 | 13741.1 | 5423.4 | 2650.8 | 1380.0 | 1267.6 | 1161.5 | 1089.7 | 1021.0 | 1002.2 |
| 42.5° | 34344.9 | 29499.1 | 14034.6 | 5457.7 | 2575.9 | 1373.8 | 1233.3 | 1136.5 | 1067.8 | 992.9 | 974.1 |
| 45° | 35746.8 | 30760.5 | 14349.9 | 5510.8 | 2500.9 | 1398.8 | 1233.3 | 1133.4 | 1049.1 | 977.3 | 958.5 |
| 47.5° | 36998.8 | 32240.5 | 14877.6 | 5510.8 | 2410.4 | 1351.9 | 1273.9 | 1136.5 | 1046.0 | 971.0 | 955.4 |
| 50° | 38675.5 | 34270.0 | 15876.7 | 5382.8 | 2282.4 | 1302.0 | 1342.6 | 1124.0 | 1017.9 | 958.5 | 939.8 |
| 52.5° | 40985.9 | 36870.8 | 17462.8 | 5161.1 | 2085.7 | 1205.2 | 1333.2 | 1117.8 | 989.8 | 927.3 | 905.5 |
| 55° | 43717.9 | 39655.9 | 19192.5 | 4902.0 | 1792.2 | 1136.5 | 1286.4 | 1102.2 | 958.5 | 889.8 | 868.0 |
| 57.5° | 45850.4 | 41572.9 | 20410.2 | 4502.3 | 1536.2 | 1099.0 | 1139.6 | 1086.5 | 921.1 | 849.3 | 830.5 |
| 60° | 46699.7 | 41498.0 | 20744.3 | 3968.4 | 1411.3 | 1067.8 | 996.0 | 1217.7 | 889.8 | 818.0 | 796.2 |
| 62.5° | 46240.7 | 39580.9 | 19807.6 | 3593.7 | 1383.2 | 1027.2 | 933.6 | 1127.1 | 864.9 | 796.2 | 765.0 |
| 65° | 44120.7 | 36183.9 | 17325.4 | 3493.8 | 1464.3 | 986.6 | 893.0 | 883.6 | 830.5 | 765.0 | 733.7 |
| 67.5° | 39502.9 | 31107.1 | 13872.2 | 3503.2 | 1567.4 | 946.0 | 852.4 | 808.7 | 783.7 | 730.6 | 702.5 |
| 70° | 32174.9 | 24594.1 | 10340.9 | 3528.2 | 1620.5 | 899.2 | 808.7 | 761.8 | 733.7 | 680.7 | 661.9 |
| 72.5° | 23657.4 | 18955.3 | 7512.2 | 3365.8 | 1629.8 | 846.1 | 749.3 | 708.8 | 680.7 | 624.5 | 608.8 |
| 75° | 16185.8 | 14499.8 | 5211.1 | 2788.2 | 1420.6 | 771.2 | 683.8 | 646.3 | 627.6 | 558.9 | 549.5 |
| 77.5° | 11824.0 | 10884.2 | 3334.6 | 2070.1 | 1095.9 | 677.5 | 602.6 | 574.5 | 562.0 | 487.1 | 474.6 |
| 80° | 9488.6 | 8611.2 | 2085.7 | 1417.5 | 802.4 | 568.3 | 505.8 | 490.2 | 477.7 | 402.8 | 393.4 |
| 82.5° | 6581.7 | 5766.8 | 1339.5 | 921.1 | 602.6 | 440.2 | 399.6 | 393.4 | 374.7 | 306.0 | 296.6 |
| 85° | 3472.0 | 3131.6 | 849.3 | 627.6 | 437.1 | 302.9 | 277.9 | 277.9 | 268.5 | 202.9 | 196.7 |
| 87.5° | 443.4 | 721.2 | 430.9 | 327.8 | 240.4 | 134.3 | 134.3 | 131.1 | 140.5 | 115.5 | 99.9 |
| 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-SLR-7050-1200-ADJ

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 |
| 2.5° | 15508.3 | 15658.1 | 15514.5 | 15523.9 | 15683.1 | 16157.7 | 16373.1 | 16551.1 | 16741.6 | 16866.5 | 16922.7 |
| 5° | 11240.1 | 11589.8 | 11708.5 | 11958.3 | 12326.7 | 12932.4 | 13172.8 | 13347.7 | 13463.2 | 13531.9 | 13560.0 |
| 7.5° | 7687.0 | 7899.3 | 8136.6 | 8539.4 | 9341.8 | 9697.7 | 9857.0 | 9816.4 | 9685.3 | 9638.4 | 9591.6 |
| 10° | 5794.9 | 5710.6 | 5666.9 | 5888.6 | 6538.0 | 6897.1 | 7009.5 | 6900.2 | 6828.4 | 6844.0 | 6922.1 |
| 12.5° | 4489.8 | 4343.1 | 4165.1 | 4140.1 | 4567.9 | 4889.5 | 4961.3 | 4967.5 | 5098.7 | 5214.2 | 5385.9 |
| 15° | 3272.1 | 3256.5 | 3169.1 | 3116.0 | 3359.6 | 3621.8 | 3653.0 | 3709.2 | 3827.9 | 3912.2 | 4062.1 |
| 17.5° | 2307.4 | 2391.7 | 2460.3 | 2494.7 | 2678.9 | 2866.2 | 2831.9 | 2803.8 | 2781.9 | 2781.9 | 2853.7 |
| 20° | 1860.9 | 1917.1 | 2004.5 | 2104.4 | 2291.7 | 2422.9 | 2338.6 | 2226.2 | 2145.0 | 2120.0 | 2129.4 |
| 22.5° | 1676.7 | 1720.4 | 1770.3 | 1857.7 | 2026.3 | 2116.9 | 2026.3 | 1945.2 | 1864.0 | 1835.9 | 1826.5 |
| 25° | 1583.0 | 1639.2 | 1686.0 | 1751.6 | 1876.5 | 1938.9 | 1851.5 | 1792.2 | 1742.2 | 1707.9 | 1682.9 |
| 27.5° | 1529.9 | 1579.9 | 1592.4 | 1623.6 | 1729.7 | 1785.9 | 1742.2 | 1717.2 | 1686.0 | 1654.8 | 1623.6 |
| 30° | 1473.7 | 1464.3 | 1442.5 | 1445.6 | 1529.9 | 1586.1 | 1583.0 | 1589.2 | 1586.1 | 1576.7 | 1570.5 |
| 32.5° | 1345.7 | 1327.0 | 1308.2 | 1327.0 | 1405.0 | 1455.0 | 1458.1 | 1470.6 | 1470.6 | 1467.5 | 1492.4 |
| 35° | 1120.9 | 1155.2 | 1177.1 | 1233.3 | 1327.0 | 1370.7 | 1351.9 | 1320.7 | 1264.5 | 1230.2 | 1227.0 |
| 37.5° | 1036.6 | 1042.8 | 1080.3 | 1158.4 | 1261.4 | 1302.0 | 1273.9 | 1202.1 | 1164.6 | 1158.4 | 1167.7 |
| 40° | 996.0 | 1002.2 | 1024.1 | 1095.9 | 1198.9 | 1239.5 | 1214.6 | 1161.5 | 1127.1 | 1124.0 | 1139.6 |
| 42.5° | 967.9 | 974.1 | 986.6 | 1036.6 | 1120.9 | 1170.8 | 1174.0 | 1136.5 | 1095.9 | 1099.0 | 1114.6 |
| 45° | 952.3 | 955.4 | 952.3 | 977.3 | 1055.3 | 1114.6 | 1139.6 | 1114.6 | 1080.3 | 1086.5 | 1105.3 |
| 47.5° | 949.2 | 939.8 | 927.3 | 933.6 | 1014.7 | 1074.1 | 1105.3 | 1095.9 | 1080.3 | 1086.5 | 1102.2 |
| 50° | 936.7 | 914.8 | 899.2 | 896.1 | 977.3 | 1039.7 | 1067.8 | 1067.8 | 1074.1 | 1086.5 | 1102.2 |
| 52.5° | 899.2 | 874.2 | 874.2 | 864.9 | 952.3 | 1011.6 | 1030.3 | 1033.5 | 1042.8 | 1064.7 | 1086.5 |
| 55° | 852.4 | 843.0 | 852.4 | 836.8 | 933.6 | 989.8 | 999.1 | 1005.4 | 1011.6 | 1030.3 | 1061.6 |
| 57.5° | 811.8 | 799.3 | 821.2 | 814.9 | 917.9 | 967.9 | 967.9 | 980.4 | 980.4 | 1005.4 | 1030.3 |
| 60° | 789.9 | 765.0 | 774.3 | 780.6 | 896.1 | 949.2 | 942.9 | 955.4 | 961.7 | 983.5 | 1002.2 |
| 62.5° | 761.8 | 740.0 | 740.0 | 755.6 | 871.1 | 921.1 | 917.9 | 927.3 | 952.3 | 958.5 | 977.3 |
| 65° | 727.5 | 718.1 | 708.8 | 727.5 | 846.1 | 889.8 | 893.0 | 905.5 | 927.3 | 933.6 | 949.2 |
| 67.5° | 693.1 | 696.3 | 677.5 | 696.3 | 824.3 | 858.6 | 858.6 | 883.6 | 893.0 | 905.5 | 921.1 |
| 70° | 655.7 | 658.8 | 643.2 | 665.0 | 808.7 | 824.3 | 821.2 | 855.5 | 861.7 | 871.1 | 886.7 |
| 72.5° | 608.8 | 608.8 | 602.6 | 633.8 | 783.7 | 789.9 | 783.7 | 811.8 | 814.9 | 824.3 | 830.5 |
| 75° | 558.9 | 558.9 | 552.6 | 596.4 | 768.1 | 752.5 | 733.7 | 755.6 | 761.8 | 768.1 | 768.1 |
| 77.5° | 493.3 | 499.6 | 499.6 | 552.6 | 715.0 | 736.9 | 674.4 | 686.9 | 696.3 | 699.4 | 690.0 |
| 80° | 412.1 | 427.7 | 434.0 | 502.7 | 599.5 | 680.7 | 602.6 | 612.0 | 615.1 | 615.1 | 602.6 |
| 82.5° | 315.3 | 343.4 | 359.1 | 434.0 | 459.0 | 571.4 | 524.5 | 533.9 | 524.5 | 505.8 | 499.6 |
| 85° | 218.6 | 256.0 | 274.8 | 331.0 | 346.6 | 440.2 | 437.1 | 437.1 | 418.4 | 393.4 | 390.3 |
| 87.5° | 118.6 | 140.5 | 153.0 | 196.7 | 237.3 | 296.6 | 321.6 | 312.2 | 296.6 | 281.0 | 284.1 |
| 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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CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 |
| 2.5° | 17216.2 | 17640.8 | 18318.3 | 18836.6 | 19358.0 | 19860.7 | 20404.0 | 20819.2 | 21172.1 | 21309.4 | 21727.8 |
| 5° | 13844.1 | 14374.9 | 15015.0 | 16170.2 | 16988.2 | 17890.6 | 18933.4 | 20313.4 | 20844.2 | 21578.0 | 22780.0 |
| 7.5° | 9788.3 | 10269.1 | 11299.5 | 12233.0 | 13391.4 | 14668.4 | 16076.5 | 17981.1 | 18677.4 | 19854.5 | 21812.1 |
| 10° | 7309.2 | 7868.1 | 8695.5 | 9482.3 | 10503.3 | 11808.4 | 13425.7 | 15555.1 | 16401.2 | 17678.2 | 19932.5 |
| 12.5° | 5888.6 | 6547.4 | 7424.7 | 8164.7 | 8954.6 | 9875.7 | 11446.2 | 13781.7 | 14915.0 | 16032.8 | 18312.1 |
| 15° | 4524.2 | 5214.2 | 6029.1 | 6968.9 | 7840.0 | 8832.9 | 10478.3 | 13032.3 | 14337.4 | 15502.0 | 17447.2 |
| 17.5° | 3131.6 | 3721.7 | 4749.0 | 5729.4 | 6844.0 | 8114.8 | 10209.8 | 13191.6 | 14749.6 | 16092.1 | 17597.1 |
| 20° | 2219.9 | 2557.1 | 3400.1 | 4536.6 | 5926.1 | 7521.5 | 10159.8 | 14028.3 | 16054.7 | 17587.7 | 18558.7 |
| 22.5° | 1867.1 | 1992.0 | 2482.2 | 3525.0 | 5129.9 | 7078.2 | 10334.7 | 15202.3 | 17815.6 | 19773.3 | 20091.8 |
| 25° | 1701.6 | 1776.6 | 2032.6 | 2766.3 | 4421.1 | 6756.6 | 10924.8 | 16950.8 | 19995.0 | 21958.9 | 21902.7 |
| 27.5° | 1611.1 | 1689.1 | 1857.7 | 2335.5 | 3887.2 | 6556.8 | 11514.9 | 19023.9 | 22486.5 | 24331.8 | 23632.4 |
| 30° | 1583.0 | 1689.1 | 1867.1 | 2201.2 | 3506.3 | 6241.4 | 11998.9 | 20844.2 | 24403.6 | 25933.5 | 24419.2 |
| 32.5° | 1561.1 | 1576.7 | 1657.9 | 1898.3 | 3144.1 | 5873.0 | 12326.7 | 22477.2 | 26280.1 | 27457.2 | 25552.6 |
| 35° | 1261.4 | 1339.5 | 1470.6 | 1701.6 | 2931.8 | 5651.3 | 12326.7 | 23885.3 | 28128.5 | 28996.4 | 26632.9 |
| 37.5° | 1214.6 | 1283.2 | 1398.8 | 1595.5 | 2813.2 | 5542.0 | 12080.0 | 25243.5 | 30017.4 | 30741.8 | 27522.7 |
| 40° | 1189.6 | 1245.8 | 1355.1 | 1514.3 | 2763.2 | 5417.1 | 11721.0 | 26442.4 | 31862.7 | 32490.3 | 28353.3 |
| 42.5° | 1170.8 | 1220.8 | 1323.8 | 1464.3 | 2697.6 | 5279.7 | 11430.6 | 27404.1 | 33464.4 | 33982.7 | 29146.3 |
| 45° | 1161.5 | 1214.6 | 1327.0 | 1489.3 | 2566.5 | 5098.7 | 11333.8 | 28443.8 | 34782.0 | 35228.5 | 30004.9 |
| 47.5° | 1161.5 | 1223.9 | 1342.6 | 1542.4 | 2410.4 | 4911.3 | 11636.7 | 29814.5 | 36027.8 | 36246.3 | 31016.6 |
| 50° | 1152.1 | 1220.8 | 1386.3 | 1489.3 | 2182.5 | 4674.0 | 12348.5 | 31541.1 | 37376.6 | 37401.6 | 32296.7 |
| 52.5° | 1133.4 | 1214.6 | 1492.4 | 1458.1 | 1920.2 | 4361.8 | 13310.2 | 33757.9 | 39371.7 | 39521.6 | 34301.2 |
| 55° | 1111.5 | 1205.2 | 1464.3 | 1386.3 | 1704.8 | 3990.3 | 14097.0 | 36452.4 | 42175.5 | 42590.8 | 37248.6 |
| 57.5° | 1083.4 | 1192.7 | 1417.5 | 1286.4 | 1564.3 | 3512.5 | 14381.1 | 38425.7 | 44133.2 | 45176.0 | 40570.7 |
| 60° | 1058.4 | 1183.3 | 1280.1 | 1227.0 | 1476.8 | 3109.8 | 13831.6 | 38035.4 | 43998.9 | 46246.9 | 43515.0 |
| 62.5° | 1033.5 | 1192.7 | 1167.7 | 1189.6 | 1436.2 | 2850.6 | 12395.4 | 34910.0 | 41772.7 | 45141.7 | 45697.4 |
| 65° | 1005.4 | 1108.4 | 1102.2 | 1158.4 | 1426.9 | 2747.6 | 10275.4 | 30223.5 | 37470.3 | 41647.9 | 46212.6 |
| 67.5° | 967.9 | 1024.1 | 1055.3 | 1117.8 | 1458.1 | 2657.0 | 8292.7 | 24931.3 | 31491.1 | 36411.8 | 43527.5 |
| 70° | 927.3 | 974.1 | 1008.5 | 1067.8 | 1439.4 | 2616.5 | 6897.1 | 19660.9 | 24987.5 | 29842.6 | 38229.0 |
| 72.5° | 874.2 | 914.8 | 946.0 | 1002.2 | 1420.6 | 2594.6 | 5826.1 | 15833.0 | 18655.5 | 22168.1 | 31082.1 |
| 75° | 811.8 | 849.3 | 871.1 | 927.3 | 1361.3 | 2376.0 | 4580.4 | 13397.6 | 13959.6 | 15420.9 | 24756.4 |
| 77.5° | 740.0 | 768.1 | 786.8 | 849.3 | 1205.2 | 1976.4 | 3312.7 | 10334.7 | 10840.5 | 11196.4 | 18980.2 |
| 80° | 655.7 | 683.8 | 693.1 | 752.5 | 999.1 | 1545.5 | 2160.6 | 7633.9 | 8108.5 | 8189.7 | 12395.4 |
| 82.5° | 558.9 | 587.0 | 587.0 | 643.2 | 818.0 | 1111.5 | 1417.5 | 5229.8 | 5323.5 | 5598.2 | 8761.1 |
| 85° | 449.6 | 471.5 | 471.5 | 499.6 | 633.8 | 830.5 | 974.1 | 2625.8 | 2597.7 | 2966.1 | 7590.2 |
| 87.5° | 321.6 | 337.2 | 352.8 | 359.1 | 452.7 | 549.5 | 587.0 | 799.3 | 527.7 | 605.7 | 4873.9 |
| 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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| 0° | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 | 19189.4 |
| 2.5° | 22043.2 | 22221.1 | 22040.0 | 21908.9 | 21343.8 | 20878.6 | 20257.2 | 19938.8 |
| 5° | 23694.8 | 24147.6 | 23994.6 | 23445.1 | 22264.9 | 20937.9 | 19429.8 | 18749.2 |
| 7.5° | 23495.0 | 24547.2 | 24572.2 | 23545.0 | 21805.9 | 19851.3 | 17809.4 | 16841.5 |
| 10° | 21940.1 | 23285.8 | 23669.9 | 22673.9 | 20828.6 | 18643.0 | 16301.3 | 15196.1 |
| 12.5° | 20204.2 | 21521.8 | 21815.2 | 21471.8 | 19929.4 | 17734.4 | 15358.4 | 14275.0 |
| 15° | 18783.5 | 19373.6 | 19723.3 | 20023.1 | 19158.2 | 17372.3 | 15305.3 | 14115.7 |
| 17.5° | 17918.7 | 17853.1 | 17953.0 | 18474.4 | 18621.2 | 17787.5 | 16117.1 | 14805.8 |
| 20° | 17606.4 | 16604.2 | 16579.2 | 17297.3 | 18368.3 | 18777.3 | 17703.2 | 16129.6 |
| 22.5° | 17778.2 | 16154.6 | 15948.5 | 16800.9 | 18502.5 | 20204.2 | 19782.7 | 17987.4 |
| 25° | 18371.4 | 16192.1 | 16026.6 | 16850.8 | 18989.6 | 21724.7 | 22027.6 | 20391.5 |
| 27.5° | 19304.9 | 16429.3 | 16210.8 | 17056.9 | 19635.9 | 23001.7 | 24238.1 | 22720.7 |
| 30° | 20191.7 | 16841.5 | 16569.8 | 17462.8 | 20226.0 | 23507.5 | 25593.2 | 24537.9 |
| 32.5° | 21268.9 | 17612.7 | 17135.0 | 18209.0 | 20956.6 | 24313.1 | 26801.5 | 26042.8 |
| 35° | 22324.2 | 18711.7 | 18118.5 | 19361.1 | 21771.5 | 25315.3 | 28181.5 | 27966.1 |
| 37.5° | 23482.5 | 20148.0 | 19657.8 | 20850.5 | 22886.2 | 26261.3 | 29942.5 | 30220.4 |
| 40° | 24719.0 | 22052.5 | 21471.8 | 23023.6 | 24615.9 | 27447.8 | 31781.5 | 32449.7 |
| 42.5° | 25964.7 | 24166.3 | 23473.2 | 25046.8 | 26517.4 | 28618.7 | 33355.1 | 34344.9 |
| 45° | 27391.6 | 26461.2 | 26133.3 | 27835.0 | 28343.9 | 29733.3 | 34516.6 | 35746.8 |
| 47.5° | 29052.7 | 29065.1 | 29592.8 | 30273.5 | 30186.0 | 30994.7 | 35684.3 | 36998.8 |
| 50° | 30991.6 | 32315.4 | 33480.0 | 33932.7 | 32084.4 | 32349.8 | 37304.8 | 38675.5 |
| 52.5° | 33320.8 | 36202.6 | 37645.1 | 37348.5 | 34129.4 | 34004.6 | 39871.3 | 40985.9 |
| 55° | 36233.9 | 40317.8 | 41750.9 | 41538.6 | 36480.5 | 36258.8 | 43068.5 | 43717.9 |
| 57.5° | 39605.9 | 44304.9 | 45622.5 | 44667.1 | 39303.0 | 38731.7 | 45713.0 | 45850.4 |
| 60° | 42568.9 | 47464.6 | 48619.9 | 47561.4 | 42150.5 | 41363.7 | 47364.7 | 46699.7 |
| 62.5° | 44217.5 | 48535.6 | 49347.4 | 48207.7 | 44102.0 | 44167.5 | 47726.9 | 46240.7 |
| 65° | 43480.6 | 45828.6 | 46090.8 | 45997.2 | 43599.3 | 45794.2 | 46424.9 | 44120.7 |
| 67.5° | 39446.7 | 38984.6 | 39424.8 | 40033.6 | 39290.5 | 43652.3 | 42818.7 | 39502.9 |
| 70° | 32340.4 | 29802.0 | 30679.3 | 31088.4 | 31425.6 | 37563.9 | 37164.3 | 32174.9 |
| 72.5° | 24372.4 | 20878.6 | 21571.7 | 21487.4 | 23048.5 | 30129.8 | 28902.8 | 23657.4 |
| 75° | 17269.2 | 14156.3 | 14243.8 | 14209.4 | 16082.8 | 23573.1 | 20928.5 | 16185.8 |
| 77.5° | 12083.2 | 10256.6 | 10303.5 | 10497.0 | 10812.4 | 17778.2 | 14952.5 | 11824.0 |
| 80° | 8308.3 | 7783.8 | 8042.9 | 8058.6 | 7493.4 | 11942.7 | 11046.6 | 9488.6 |
| 82.5° | 6188.3 | 5410.9 | 5348.4 | 5439.0 | 5873.0 | 9675.9 | 8489.4 | 6581.7 |
| 85° | 5067.4 | 3203.4 | 2575.9 | 3228.4 | 5204.8 | 9582.2 | 5638.8 | 3472.0 |
| 87.5° | 2853.7 | 1520.5 | 686.9 | 1273.9 | 2076.3 | 6344.4 | 1629.8 | 443.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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