

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: P192897

Luminaire Tested: **GAN-AF-09-LED-U-SL3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192897
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-09-LED-U-SL3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA 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: 33913 lumens
Efficiency: N/A
Efficacy: 116.9 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

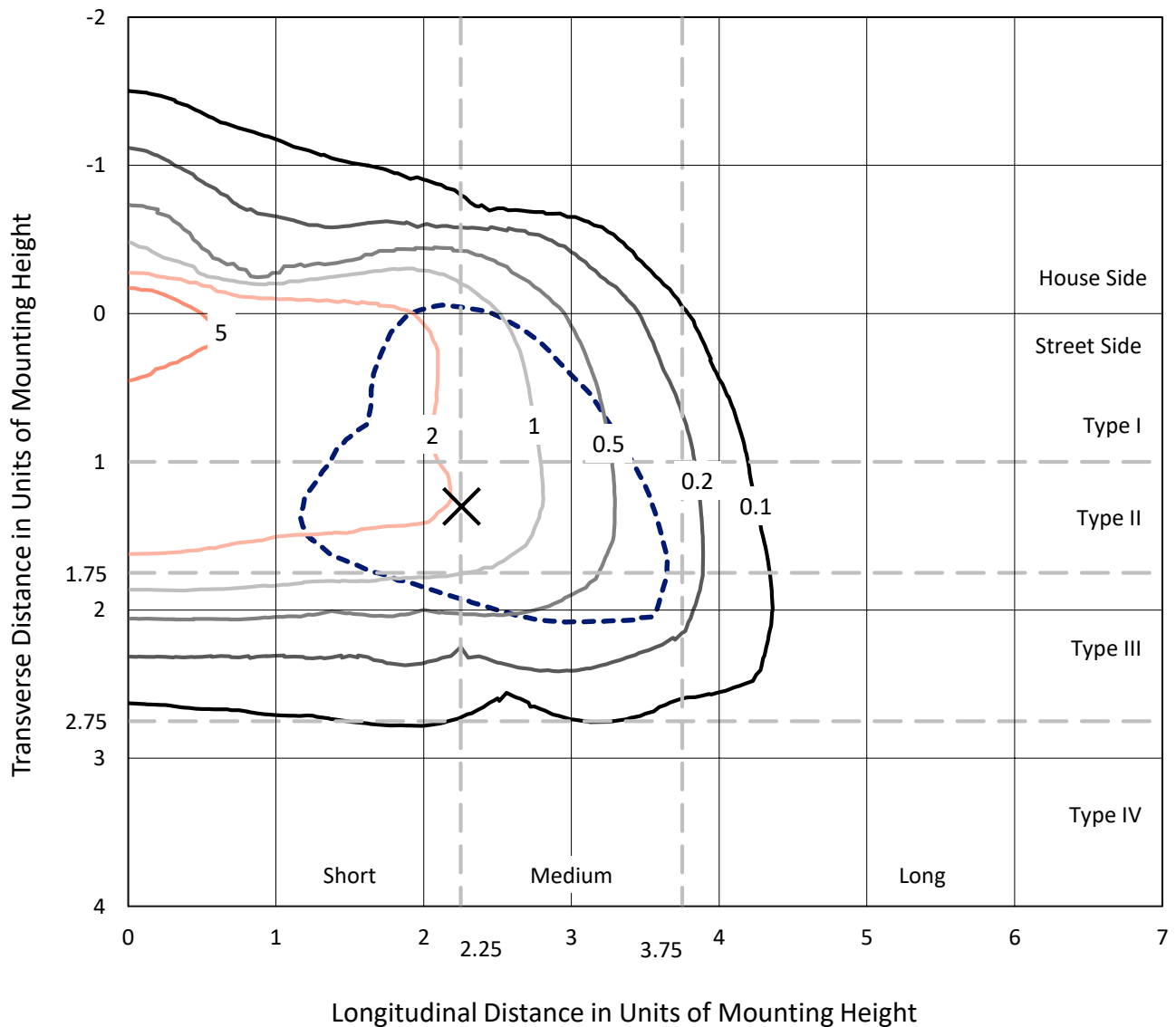
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

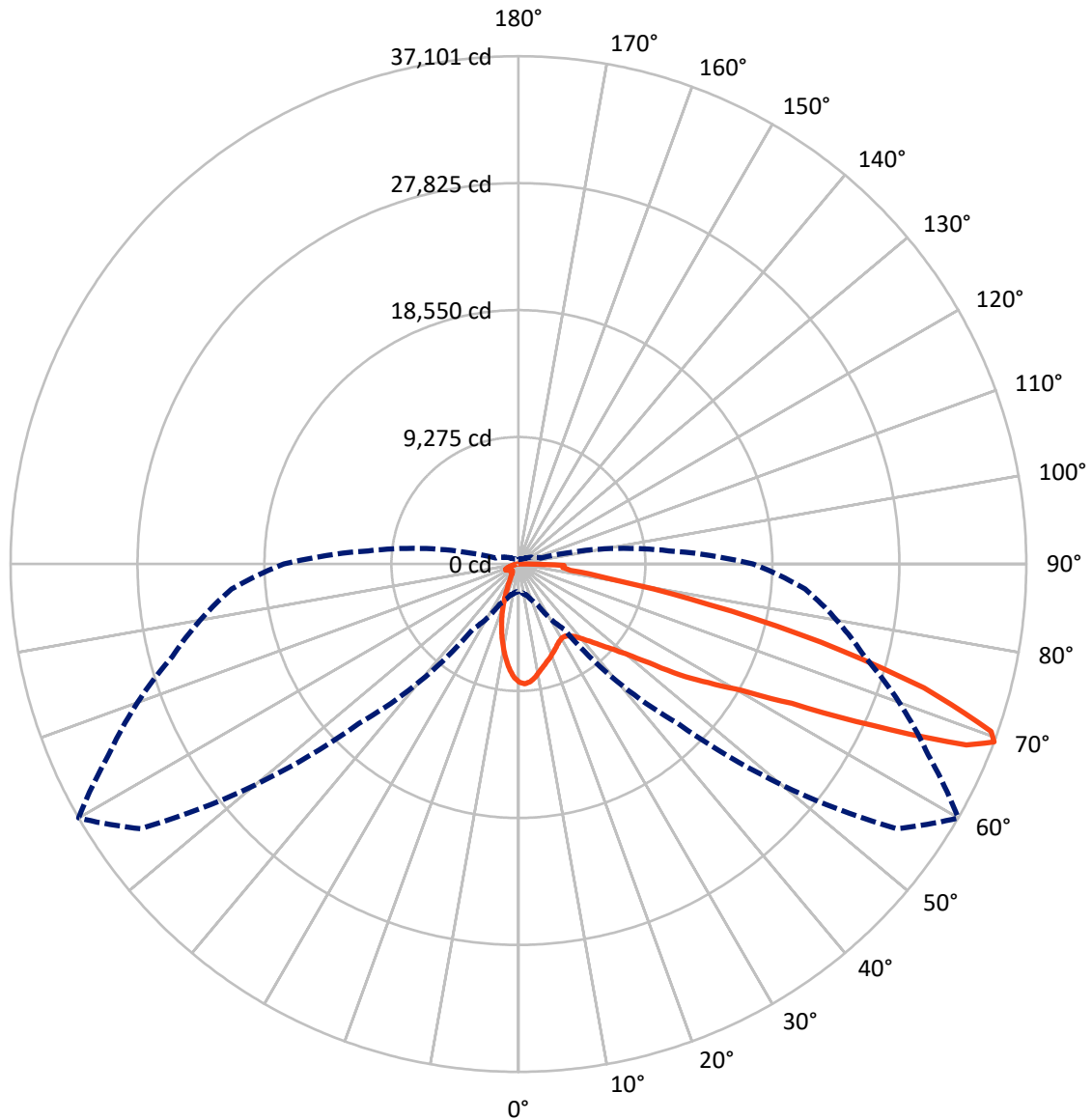
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 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 | 4824.8 | 0.0 | 4824.8 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 29088.2 | 0.0 | 29088.2 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 33913.0 | 0.0 | 33913.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 730.7 | 2.2 |
| 10°-20° | 1556.8 | 4.6 |
| 20°-30° | 1983.6 | 5.8 |
| 30°-40° | 2726.9 | 8.0 |
| 40°-50° | 4424.7 | 13.0 |
| 50°-60° | 7096.1 | 20.9 |
| 60°-70° | 9444.3 | 27.8 |
| 70°-80° | 5099.2 | 15.0 |
| 80°-90° | 850.8 | 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° | 33913.0 | 100.0 |
| 0°-180° | 33913.0 | 100.0 |

Coefficient of Utilization



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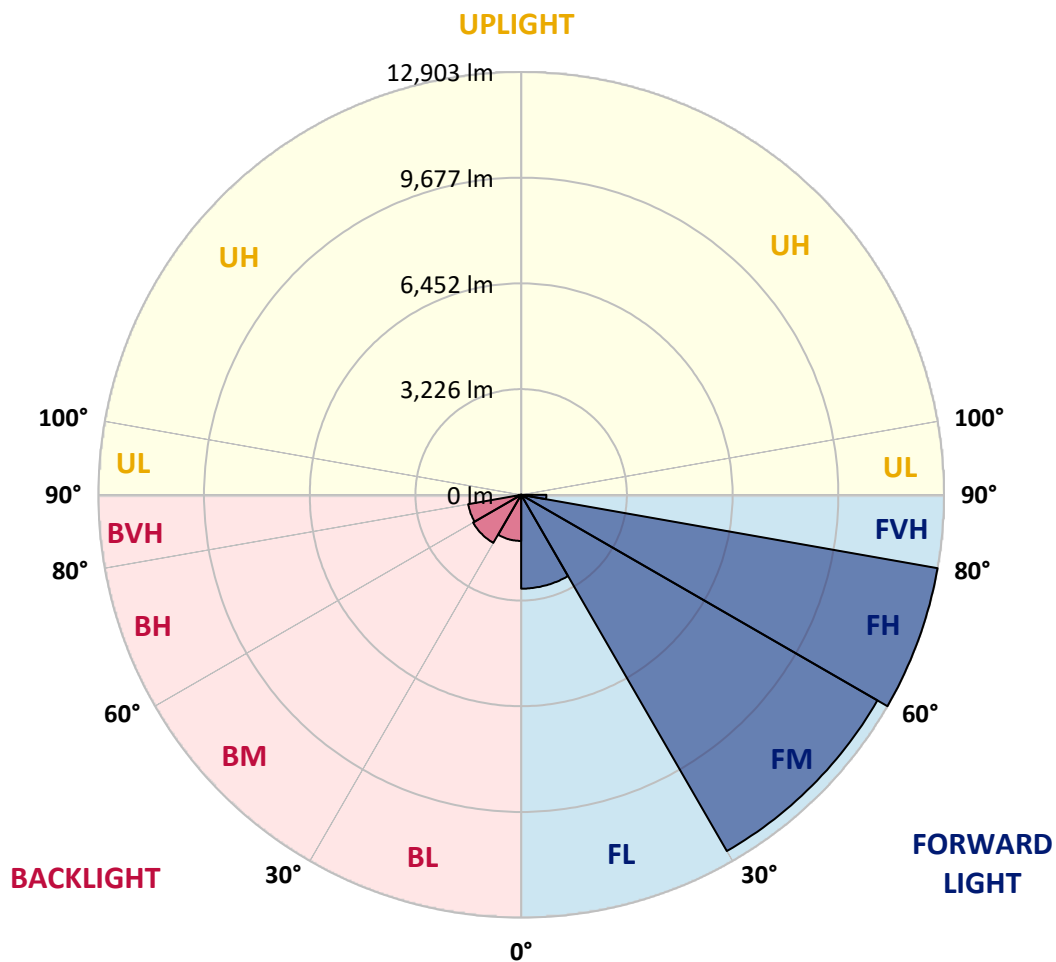
CATALOG NUMBER: GAN-AF-09-LED-U-SL3-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2863.5 | 8.4 | | | |
| FM (30°-60°) | 12552.6 | 37.0 | | | |
| FH (60°-80°) | 12903.2 | 38.0 | | | G5 |
| FVH (80°-90°) | 768.9 | 2.3 | | | G5 |
| BL (0°-30°) | 1407.5 | 4.2 | B3/2500 | | |
| BM (30°-60°) | 1695.0 | 5.0 | B2/2500 | | |
| BH (60°-80°) | 1640.3 | 4.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 81.9 | 0.2 | | | G1/100 |
| 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° | 8641.6 | 8641.6 | 8641.6 | 8641.6 | 8641.6 | 8641.6 | 8641.6 | 8641.6 | 8641.6 | 8641.6 | 8641.6 |
| 2.5° | 8818.5 | 8838.1 | 8829.9 | 8825.0 | 8839.7 | 8816.7 | 8769.3 | 8754.6 | 8731.7 | 8677.6 | 8585.8 |
| 5° | 8487.6 | 8546.5 | 8543.2 | 8587.4 | 8661.2 | 8680.8 | 8659.6 | 8662.8 | 8620.2 | 8553.1 | 8400.7 |
| 7.5° | 7915.9 | 7940.4 | 7953.5 | 8050.1 | 8184.5 | 8292.6 | 8384.3 | 8413.8 | 8394.2 | 8336.8 | 8140.3 |
| 10° | 7326.1 | 7345.7 | 7376.8 | 7489.8 | 7660.2 | 7809.3 | 7983.0 | 8082.9 | 8125.5 | 8115.7 | 7896.1 |
| 12.5° | 6819.9 | 6839.5 | 6880.5 | 7008.2 | 7211.4 | 7394.8 | 7647.2 | 7771.6 | 7873.2 | 7933.9 | 7698.0 |
| 15° | 6366.1 | 6408.7 | 6447.9 | 6595.4 | 6823.1 | 7063.9 | 7349.0 | 7506.2 | 7663.6 | 7799.5 | 7522.6 |
| 17.5° | 6012.2 | 6054.8 | 6077.8 | 6212.1 | 6454.5 | 6749.4 | 7083.6 | 7268.7 | 7465.3 | 7688.1 | 7349.0 |
| 20° | 5807.4 | 5827.2 | 5817.3 | 5892.7 | 6110.6 | 6423.5 | 6819.9 | 7034.4 | 7272.0 | 7583.2 | 7175.4 |
| 22.5° | 5750.1 | 5751.7 | 5715.7 | 5707.4 | 5848.4 | 6112.2 | 6538.1 | 6798.5 | 7090.2 | 7514.5 | 7026.3 |
| 25° | 5889.4 | 5884.4 | 5786.2 | 5705.8 | 5720.6 | 5874.7 | 6266.1 | 6569.2 | 6937.9 | 7499.7 | 6911.6 |
| 27.5° | 6199.0 | 6213.7 | 6067.9 | 5917.2 | 5768.2 | 5763.2 | 6059.7 | 6379.2 | 6813.3 | 7566.9 | 6862.5 |
| 30° | 6633.1 | 6657.7 | 6502.0 | 6310.4 | 6030.2 | 5799.3 | 5979.4 | 6266.1 | 6736.3 | 7706.2 | 6854.3 |
| 32.5° | 7108.2 | 7134.4 | 7016.4 | 6814.9 | 6447.9 | 6022.1 | 6035.2 | 6276.0 | 6733.0 | 7901.1 | 6910.0 |
| 35° | 7614.4 | 7643.9 | 7583.2 | 7412.9 | 7004.9 | 6433.1 | 6248.1 | 6434.9 | 6839.5 | 8199.3 | 7059.0 |
| 37.5° | 8179.5 | 8225.5 | 8241.9 | 8079.6 | 7643.9 | 6975.4 | 6597.1 | 6736.3 | 7080.3 | 8613.7 | 7332.6 |
| 40° | 8993.7 | 9057.7 | 9052.7 | 8820.1 | 8376.2 | 7707.8 | 7136.0 | 7172.1 | 7455.6 | 9167.4 | 7770.0 |
| 42.5° | 10553.4 | 10566.5 | 10158.5 | 9652.3 | 9182.1 | 8477.8 | 7771.6 | 7742.2 | 7973.2 | 9868.6 | 8413.8 |
| 45° | 12537.2 | 12483.1 | 11575.6 | 10597.6 | 10024.2 | 9362.3 | 8598.9 | 8454.8 | 8630.1 | 10723.7 | 9219.9 |
| 47.5° | 14183.6 | 14059.1 | 12912.4 | 11562.5 | 10915.3 | 10324.0 | 9570.4 | 9318.1 | 9414.8 | 11693.5 | 10261.7 |
| 50° | 14755.4 | 14661.9 | 13711.8 | 12365.2 | 11759.0 | 11497.0 | 10766.3 | 10409.1 | 10435.4 | 12850.1 | 11482.2 |
| 52.5° | 14632.4 | 14619.3 | 13985.4 | 12894.3 | 12548.7 | 12728.9 | 12460.3 | 11976.9 | 11721.4 | 14134.5 | 12799.2 |
| 55° | 14342.5 | 14370.4 | 14141.0 | 13510.4 | 13451.4 | 13918.2 | 14673.4 | 14316.2 | 13521.7 | 15430.2 | 14160.6 |
| 57.5° | 13335.0 | 13407.1 | 13911.7 | 14285.2 | 14904.4 | 15599.1 | 16455.7 | 16354.3 | 15459.7 | 16831.0 | 15779.2 |
| 60° | 10743.4 | 10910.4 | 12263.6 | 14134.5 | 16400.2 | 18572.3 | 18955.7 | 18719.8 | 17458.4 | 18569.0 | 17917.1 |
| 62.5° | 7527.5 | 7701.2 | 9310.0 | 12237.4 | 16154.3 | 21930.6 | 23424.7 | 22407.4 | 20328.6 | 21129.6 | 20684.0 |
| 65° | 4030.0 | 4113.5 | 5342.2 | 8490.9 | 13638.1 | 22623.7 | 29956.2 | 28408.2 | 24872.9 | 24286.3 | 23051.2 |
| 67.5° | 2223.1 | 2268.9 | 2739.1 | 4287.3 | 8734.9 | 19922.3 | 34117.3 | 35287.0 | 30552.6 | 26388.2 | 22620.4 |
| 69° | 2010.1 | 2052.7 | 2360.6 | 3246.9 | 5845.2 | 16472.2 | 33711.1 | 37100.5 | 33042.6 | 26180.1 | 21028.0 |
| 70° | 1965.9 | 2005.1 | 2282.0 | 2993.0 | 4731.2 | 13577.4 | 32349.7 | 36636.9 | 33635.7 | 25434.8 | 19638.8 |
| 72.5° | 1769.2 | 1811.8 | 2080.6 | 2688.4 | 4043.1 | 6769.0 | 25624.8 | 30976.8 | 30537.9 | 22053.6 | 14896.2 |
| 75° | 1649.7 | 1689.0 | 2144.4 | 2632.6 | 3871.0 | 4283.9 | 16893.2 | 22830.0 | 22448.3 | 15427.0 | 8032.0 |
| 77.5° | 706.1 | 702.7 | 994.4 | 2228.1 | 3928.4 | 4147.9 | 9077.3 | 14262.2 | 13012.2 | 6593.8 | 2306.6 |
| 80° | 471.8 | 463.6 | 471.8 | 655.3 | 3602.4 | 4170.9 | 4755.7 | 7239.2 | 5468.3 | 1680.9 | 1137.0 |
| 82.5° | 406.2 | 399.7 | 414.4 | 399.7 | 1266.4 | 4760.7 | 4043.1 | 3849.7 | 2599.9 | 955.0 | 563.6 |
| 85° | 273.5 | 262.1 | 357.2 | 358.8 | 597.9 | 4229.9 | 4554.3 | 3251.9 | 2103.5 | 566.8 | 278.5 |
| 87.5° | 131.1 | 127.9 | 208.0 | 253.9 | 350.6 | 1718.4 | 5109.6 | 3332.1 | 2121.5 | 290.0 | 132.6 |
| 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-09-LED-U-SL3-7030-600

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8641.6 | 8641.6 | 8641.6 | 8641.6 | 8641.6 | 8641.6 | 8641.6 | 8641.6 | 8641.6 | 8641.6 | 8641.6 |
| 2.5° | 8557.9 | 8490.9 | 8425.3 | 8346.7 | 8264.8 | 8173.0 | 8127.1 | 8081.3 | 8069.8 | 8056.7 | 8010.8 |
| 5° | 8322.1 | 8227.1 | 8063.3 | 7883.0 | 7693.1 | 7507.9 | 7367.1 | 7278.6 | 7211.4 | 7177.0 | 7116.4 |
| 7.5° | 8017.3 | 7878.1 | 7591.5 | 7280.2 | 6960.7 | 6669.1 | 6416.9 | 6258.0 | 6107.3 | 6036.8 | 5956.5 |
| 10° | 7727.5 | 7519.3 | 7073.8 | 6615.1 | 6156.4 | 5715.7 | 5301.3 | 5008.0 | 4747.6 | 4601.7 | 4498.5 |
| 12.5° | 7478.5 | 7193.4 | 6575.8 | 5954.8 | 5325.9 | 4698.3 | 4077.4 | 3589.2 | 3181.4 | 2966.8 | 2857.0 |
| 15° | 7235.9 | 6892.0 | 6102.3 | 5314.4 | 4506.7 | 3653.2 | 2837.4 | 2283.6 | 1946.2 | 1811.8 | 1765.9 |
| 17.5° | 7016.4 | 6575.8 | 5627.3 | 4668.8 | 3661.4 | 2629.4 | 1906.9 | 1602.2 | 1472.7 | 1428.6 | 1413.9 |
| 20° | 6778.9 | 6256.3 | 5134.1 | 3994.0 | 2780.0 | 1838.1 | 1489.1 | 1354.9 | 1302.4 | 1289.3 | 1282.7 |
| 22.5° | 6549.5 | 5941.7 | 4662.3 | 3271.5 | 1996.9 | 1418.7 | 1279.4 | 1223.7 | 1215.5 | 1227.0 | 1227.0 |
| 25° | 6354.6 | 5659.9 | 4152.8 | 2516.2 | 1466.1 | 1194.2 | 1145.1 | 1132.0 | 1163.2 | 1205.6 | 1213.9 |
| 27.5° | 6208.7 | 5429.0 | 3610.6 | 1857.7 | 1168.1 | 1038.6 | 1037.0 | 1058.2 | 1135.3 | 1217.1 | 1233.5 |
| 30° | 6108.9 | 5209.5 | 3030.7 | 1340.1 | 979.6 | 914.2 | 940.2 | 986.2 | 1099.2 | 1215.5 | 1246.6 |
| 32.5° | 6058.1 | 5047.3 | 2426.2 | 1037.0 | 838.8 | 802.7 | 847.0 | 902.7 | 1014.0 | 1122.2 | 1163.2 |
| 35° | 6097.4 | 4927.7 | 1856.1 | 865.0 | 740.4 | 712.6 | 758.5 | 812.6 | 878.1 | 923.9 | 955.0 |
| 37.5° | 6244.8 | 4880.2 | 1400.7 | 774.8 | 673.2 | 647.2 | 683.1 | 714.2 | 740.4 | 753.6 | 768.3 |
| 40° | 6562.6 | 4931.0 | 1122.2 | 729.0 | 635.7 | 602.9 | 617.7 | 629.2 | 645.5 | 658.5 | 665.1 |
| 42.5° | 7031.2 | 5083.4 | 1005.8 | 710.9 | 616.0 | 568.4 | 565.2 | 570.2 | 591.4 | 616.0 | 620.9 |
| 45° | 7686.5 | 5352.1 | 997.6 | 722.4 | 606.2 | 540.7 | 525.9 | 532.4 | 565.2 | 602.9 | 609.4 |
| 47.5° | 8523.7 | 5761.6 | 1063.2 | 756.8 | 614.4 | 525.9 | 501.3 | 509.4 | 550.4 | 601.3 | 609.4 |
| 50° | 9537.7 | 6333.3 | 1173.0 | 807.7 | 650.4 | 529.2 | 493.1 | 498.0 | 540.7 | 596.3 | 604.5 |
| 52.5° | 10735.2 | 7144.3 | 1292.5 | 856.8 | 688.0 | 550.4 | 499.7 | 488.2 | 527.5 | 576.7 | 586.5 |
| 55° | 12067.0 | 8184.5 | 1415.5 | 901.1 | 707.7 | 576.7 | 512.8 | 475.1 | 502.9 | 543.9 | 552.1 |
| 57.5° | 13701.9 | 9639.2 | 1628.4 | 943.6 | 720.8 | 594.7 | 525.9 | 461.9 | 471.8 | 501.3 | 507.8 |
| 60° | 15915.1 | 11696.8 | 2003.5 | 1014.0 | 750.3 | 601.3 | 524.2 | 450.4 | 440.7 | 457.0 | 460.3 |
| 62.5° | 18567.4 | 13931.3 | 2316.4 | 1102.5 | 799.4 | 606.2 | 514.4 | 442.3 | 414.4 | 414.4 | 417.7 |
| 65° | 20141.7 | 14529.3 | 2142.8 | 1176.2 | 840.4 | 601.3 | 502.9 | 434.1 | 394.8 | 376.8 | 378.5 |
| 67.5° | 18806.6 | 12778.0 | 1836.4 | 1190.9 | 838.8 | 578.3 | 484.9 | 419.3 | 375.2 | 347.3 | 345.7 |
| 69° | 17134.0 | 11025.2 | 1698.9 | 1151.7 | 799.4 | 548.8 | 461.9 | 402.9 | 360.4 | 330.9 | 329.3 |
| 70° | 15785.8 | 9955.3 | 1608.8 | 1109.1 | 756.8 | 527.5 | 443.9 | 388.3 | 349.0 | 321.1 | 317.8 |
| 72.5° | 11477.2 | 6523.4 | 1374.5 | 953.4 | 624.2 | 442.3 | 383.4 | 340.8 | 311.3 | 294.9 | 291.6 |
| 75° | 5735.3 | 3110.9 | 1115.6 | 773.2 | 478.3 | 353.9 | 314.5 | 285.0 | 270.3 | 267.0 | 265.4 |
| 77.5° | 1883.9 | 1425.3 | 797.8 | 576.7 | 355.5 | 276.9 | 253.9 | 232.6 | 229.3 | 239.2 | 235.9 |
| 80° | 1035.3 | 829.0 | 506.2 | 381.8 | 242.4 | 203.1 | 199.8 | 188.4 | 193.3 | 209.7 | 206.4 |
| 82.5° | 527.5 | 430.8 | 312.9 | 229.3 | 163.8 | 145.8 | 158.9 | 152.3 | 158.9 | 173.6 | 172.0 |
| 85° | 260.5 | 235.9 | 198.2 | 139.2 | 108.1 | 93.4 | 113.1 | 118.0 | 121.3 | 132.6 | 132.6 |
| 87.5° | 150.7 | 139.2 | 104.9 | 65.5 | 54.1 | 49.1 | 65.5 | 63.9 | 75.4 | 82.0 | 80.3 |
| 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)