

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: P191905

Luminaire Tested: **GAN-AF-07-LED-U-SL2-7050-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SL2-7050-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45245 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

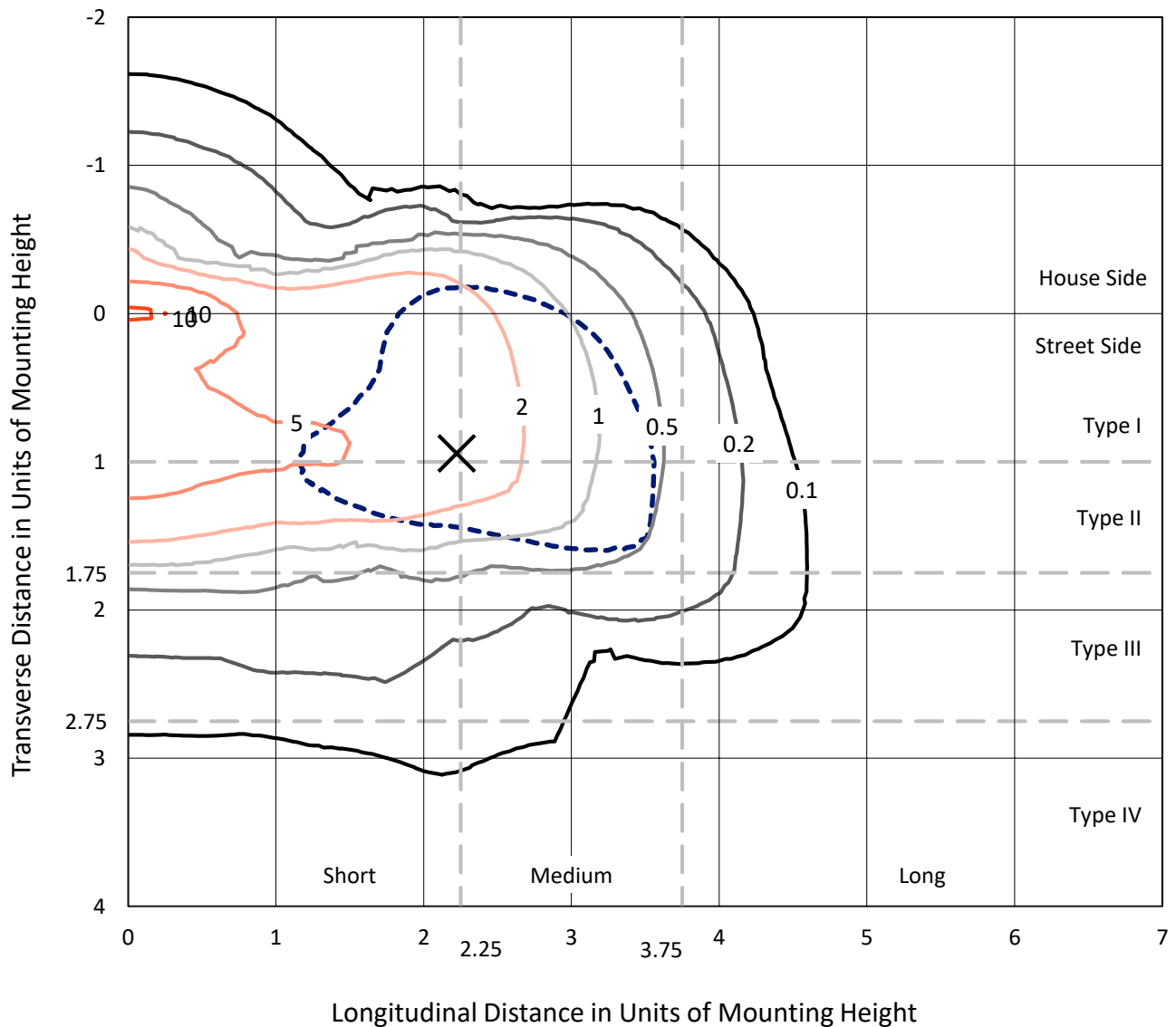
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

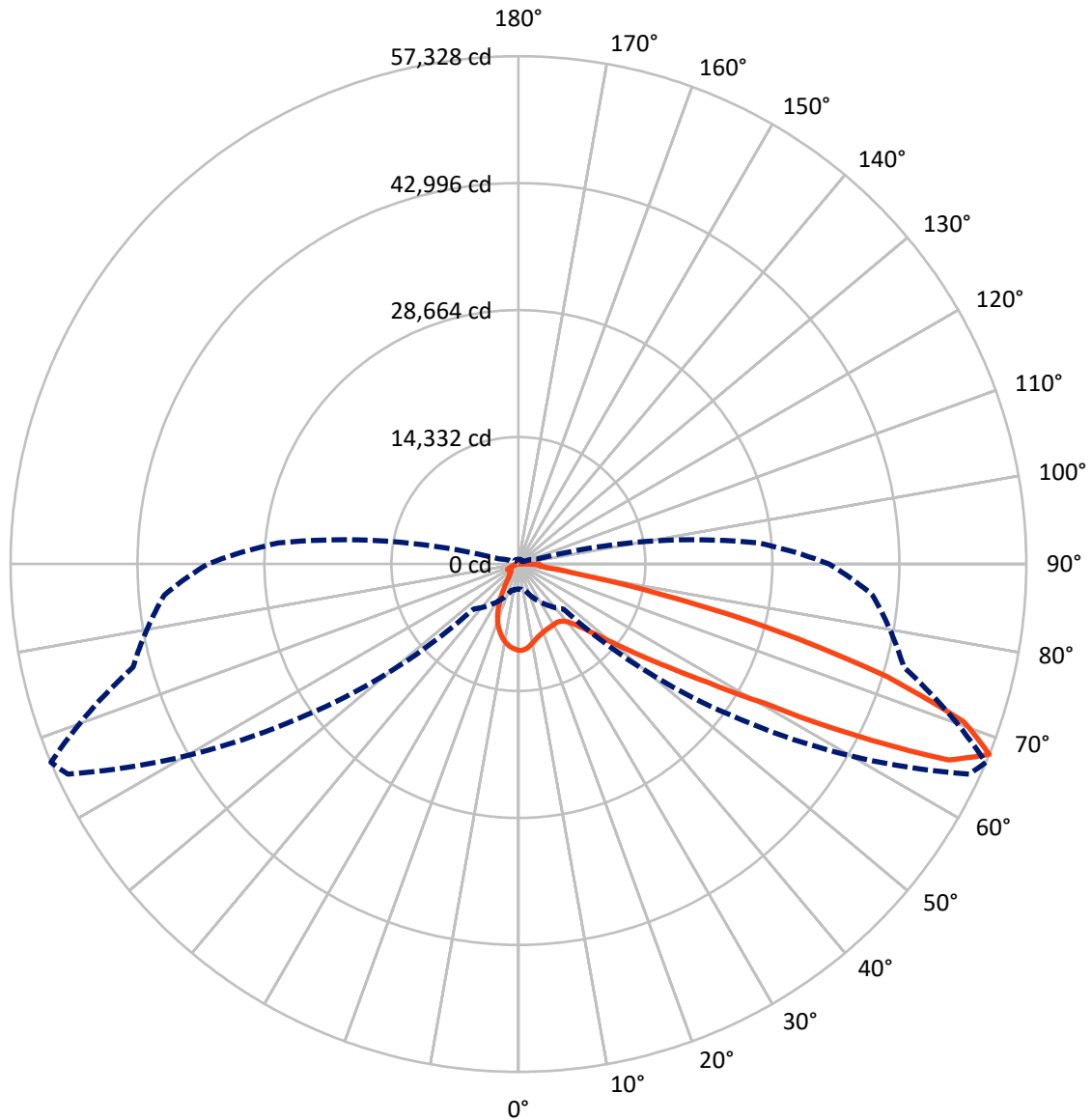


Based on 30 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7496.6 | 0.0 | 7496.6 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 37748.4 | 0.0 | 37748.4 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 45245.0 | 0.0 | 45245.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 832.6 | 1.8 |
| 10°-20° | 1926.5 | 4.3 |
| 20°-30° | 2611.4 | 5.8 |
| 30°-40° | 3712.4 | 8.2 |
| 40°-50° | 6211.0 | 13.7 |
| 50°-60° | 9825.8 | 21.7 |
| 60°-70° | 12517.1 | 27.7 |
| 70°-80° | 6556.4 | 14.5 |
| 80°-90° | 1051.5 | 2.3 |
| 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° | 45245.0 | 100.0 |
| 0°-180° | 45245.0 | 100.0 |

Coefficient of Utilization



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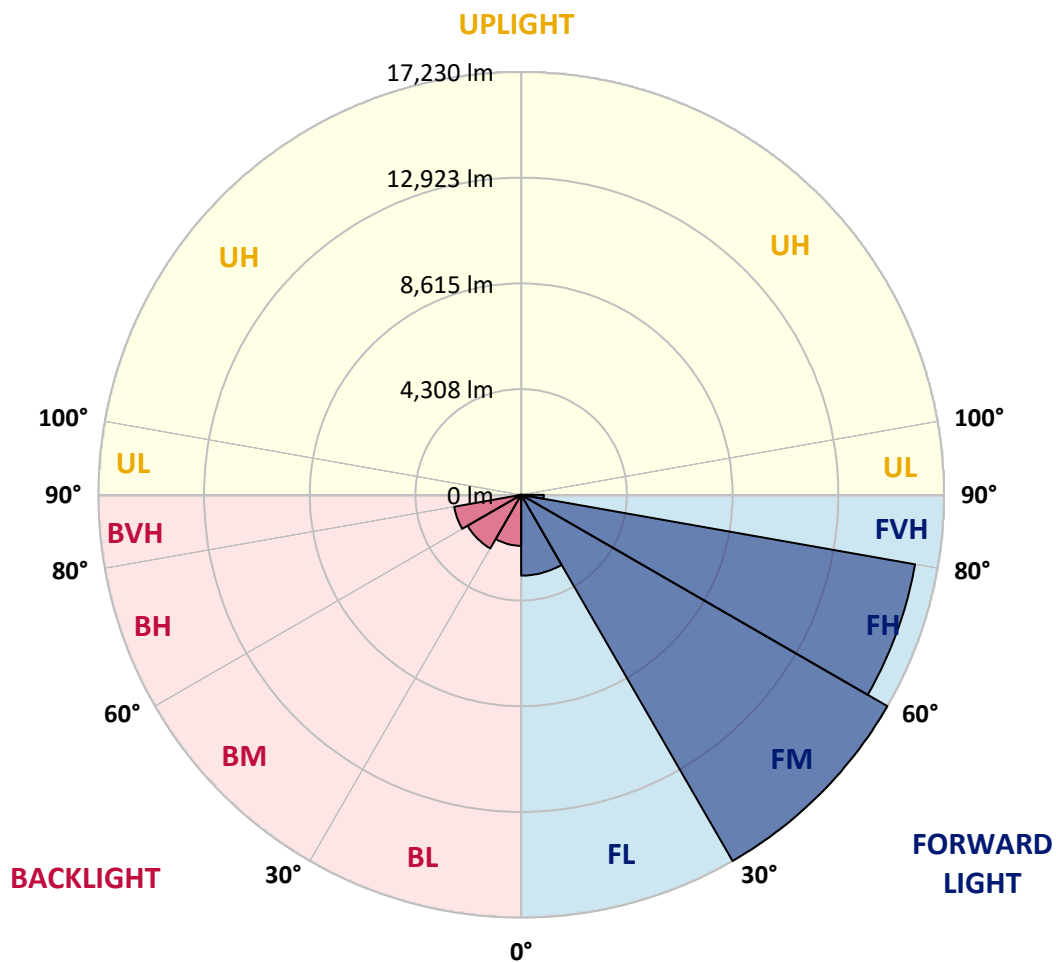
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3292.7 | 7.3 | | | |
| FM (30°-60°) | 17230.2 | 38.1 | | | |
| FH (60°-80°) | 16300.8 | 36.0 | | | G5 |
| FVH (80°-90°) | 924.6 | 2.0 | | | G5 |
| BL (0°-30°) | 2077.8 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 2519.1 | 5.6 | B3/5000 | | |
| BH (60°-80°) | 2772.7 | 6.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 126.9 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9759.2 | 9759.2 | 9759.2 | 9759.2 | 9759.2 | 9759.2 | 9759.2 | 9759.2 | 9759.2 | 9759.2 | 9759.2 |
| 2.5° | 9357.6 | 9373.2 | 9422.3 | 9453.6 | 9594.1 | 9654.4 | 9696.8 | 9739.2 | 9745.8 | 9765.9 | 9745.8 |
| 5° | 8375.9 | 8409.4 | 8500.8 | 8603.5 | 8875.7 | 9089.9 | 9315.2 | 9549.5 | 9591.9 | 9743.6 | 9786.0 |
| 7.5° | 7615.1 | 7606.1 | 7682.0 | 7804.7 | 8083.6 | 8380.4 | 8775.3 | 9241.6 | 9333.1 | 9674.5 | 9839.6 |
| 10° | 7059.5 | 7052.8 | 7133.1 | 7260.3 | 7525.8 | 7806.9 | 8253.2 | 8891.3 | 9020.7 | 9565.1 | 9890.9 |
| 12.5° | 6649.0 | 6651.2 | 6731.5 | 6872.1 | 7142.0 | 7425.4 | 7878.3 | 8552.2 | 8717.3 | 9437.9 | 9944.4 |
| 15° | 6376.7 | 6394.6 | 6459.3 | 6608.8 | 6872.1 | 7155.4 | 7599.4 | 8297.8 | 8483.0 | 9337.5 | 10004.7 |
| 17.5° | 6285.3 | 6314.3 | 6336.6 | 6445.9 | 6671.3 | 6954.6 | 7389.7 | 8110.4 | 8306.7 | 9268.4 | 10058.2 |
| 20° | 6370.1 | 6403.5 | 6361.1 | 6399.1 | 6541.9 | 6791.7 | 7224.6 | 7963.1 | 8163.9 | 9190.3 | 10064.9 |
| 22.5° | 6733.7 | 6765.0 | 6640.0 | 6530.7 | 6521.8 | 6673.5 | 7088.5 | 7847.1 | 8054.6 | 9132.3 | 10067.1 |
| 25° | 7374.1 | 7394.2 | 7184.4 | 6930.1 | 6682.4 | 6631.1 | 6992.6 | 7766.8 | 7987.7 | 9081.0 | 10024.7 |
| 27.5° | 8159.5 | 8175.1 | 7934.1 | 7559.3 | 7061.7 | 6731.5 | 6959.1 | 7719.9 | 7949.7 | 9036.3 | 9953.3 |
| 30° | 9114.4 | 9188.1 | 8864.5 | 8391.5 | 7666.4 | 7028.3 | 7026.0 | 7695.4 | 7907.3 | 8960.5 | 9812.8 |
| 32.5° | 10091.7 | 10122.9 | 9899.8 | 9420.1 | 8480.8 | 7550.4 | 7213.4 | 7713.2 | 7896.2 | 8869.0 | 9634.3 |
| 35° | 11082.3 | 11122.5 | 10977.5 | 10591.5 | 9594.1 | 8315.7 | 7579.4 | 7818.1 | 7965.4 | 8837.8 | 9509.3 |
| 37.5° | 12365.3 | 12418.8 | 12218.0 | 11771.8 | 10948.5 | 9353.2 | 8188.5 | 8081.4 | 8177.3 | 8927.0 | 9471.4 |
| 40° | 14393.4 | 14368.9 | 13782.1 | 13117.2 | 12430.0 | 10680.7 | 9058.6 | 8527.6 | 8583.4 | 9214.8 | 9587.4 |
| 42.5° | 16754.0 | 16693.8 | 15683.1 | 14638.9 | 14058.7 | 12287.2 | 10209.9 | 9301.8 | 9290.7 | 9781.5 | 9995.7 |
| 45° | 18637.2 | 18588.1 | 17677.7 | 16390.3 | 15926.3 | 14116.8 | 11698.1 | 10455.4 | 10372.8 | 10680.7 | 10749.9 |
| 47.5° | 19656.8 | 19659.0 | 19134.7 | 18083.8 | 18072.7 | 16441.7 | 13610.3 | 12124.3 | 11981.5 | 12126.5 | 12052.9 |
| 50° | 19299.8 | 19346.7 | 19290.9 | 18956.2 | 20031.6 | 19489.5 | 16107.0 | 14451.4 | 14163.6 | 14306.4 | 14023.0 |
| 52.5° | 17572.9 | 17633.1 | 17963.3 | 18476.5 | 20855.0 | 23173.2 | 19775.1 | 17343.1 | 17008.4 | 16957.1 | 16642.5 |
| 55° | 14511.7 | 14585.3 | 15259.1 | 16653.6 | 20170.0 | 25647.6 | 25562.8 | 21029.0 | 20495.7 | 20011.6 | 19877.7 |
| 57.5° | 10002.4 | 10125.2 | 11209.5 | 13280.1 | 17954.4 | 26395.0 | 32454.9 | 26283.4 | 25199.1 | 23507.8 | 23539.1 |
| 60° | 5638.2 | 5781.0 | 7059.5 | 8940.4 | 13483.1 | 25582.9 | 37698.2 | 34242.1 | 31952.9 | 27602.1 | 27834.1 |
| 62.5° | 3585.5 | 3739.5 | 4710.0 | 6211.6 | 8090.3 | 21209.7 | 39846.9 | 45306.6 | 42399.3 | 32649.0 | 32876.6 |
| 65° | 2902.8 | 2969.7 | 3427.1 | 5127.3 | 5874.7 | 12778.0 | 38215.9 | 54421.0 | 53336.7 | 39054.8 | 37992.7 |
| 67.5° | 2833.6 | 2855.9 | 3092.4 | 4304.0 | 5633.8 | 7182.2 | 30482.6 | 56125.6 | 57328.3 | 45036.6 | 40123.5 |
| 70° | 2800.1 | 2878.2 | 3485.1 | 4107.6 | 5395.0 | 6057.7 | 18318.1 | 51453.5 | 53352.3 | 46600.7 | 37287.7 |
| 72.5° | 1358.8 | 1354.3 | 1753.7 | 3714.9 | 6077.8 | 6283.0 | 9411.2 | 41631.8 | 43537.3 | 40373.4 | 30641.0 |
| 75° | 1095.5 | 1001.8 | 957.2 | 1361.0 | 5843.5 | 6488.3 | 5997.4 | 28646.3 | 30025.2 | 27068.8 | 18835.7 |
| 77.5° | 1039.7 | 928.2 | 850.1 | 852.3 | 2469.9 | 6881.0 | 5080.4 | 15854.9 | 16256.5 | 12226.9 | 5160.7 |
| 80° | 861.2 | 758.6 | 702.8 | 792.1 | 1195.9 | 6553.0 | 5493.2 | 7175.5 | 6584.2 | 3003.2 | 1718.0 |
| 82.5° | 598.0 | 544.4 | 528.8 | 664.9 | 957.2 | 4669.9 | 6387.9 | 3855.5 | 3233.0 | 1503.8 | 1059.8 |
| 85° | 381.5 | 325.8 | 361.5 | 484.2 | 745.2 | 2155.3 | 6579.8 | 3005.4 | 2389.6 | 955.0 | 598.0 |
| 87.5° | 176.3 | 142.8 | 178.5 | 267.7 | 486.4 | 743.0 | 6260.7 | 3375.8 | 2461.0 | 504.2 | 377.1 |
| 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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CATALOG NUMBER: GAN-AF-07-LED-U-SL2-7050-1200-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9759.2 | 9759.2 | 9759.2 | 9759.2 | 9759.2 | 9759.2 | 9759.2 | 9759.2 | 9759.2 | 9759.2 | 9759.2 |
| 2.5° | 9763.7 | 9721.3 | 9687.8 | 9625.4 | 9556.2 | 9489.3 | 9429.0 | 9353.2 | 9330.8 | 9310.8 | 9342.0 |
| 5° | 9794.9 | 9752.5 | 9629.8 | 9437.9 | 9226.0 | 9027.4 | 8828.8 | 8659.3 | 8554.4 | 8496.4 | 8529.8 |
| 7.5° | 9841.8 | 9781.5 | 9527.2 | 9174.7 | 8793.1 | 8445.1 | 8085.8 | 7798.0 | 7586.1 | 7485.7 | 7514.7 |
| 10° | 9884.2 | 9768.2 | 9353.2 | 8824.4 | 8266.6 | 7748.9 | 7182.2 | 6713.7 | 6365.6 | 6182.6 | 6227.3 |
| 12.5° | 9902.0 | 9716.8 | 9110.0 | 8387.1 | 7621.8 | 6863.1 | 6028.7 | 5328.1 | 4828.3 | 4645.3 | 4607.4 |
| 15° | 9919.9 | 9658.8 | 8842.2 | 7889.5 | 6843.1 | 5769.9 | 4600.7 | 3761.8 | 3346.8 | 3255.3 | 3235.2 |
| 17.5° | 9924.3 | 9558.4 | 8538.8 | 7349.5 | 5930.5 | 4469.1 | 3146.0 | 2612.7 | 2615.0 | 2762.2 | 2780.1 |
| 20° | 9877.5 | 9408.9 | 8170.6 | 6678.0 | 4837.2 | 3090.2 | 2159.8 | 2068.3 | 2405.2 | 2773.4 | 2818.0 |
| 22.5° | 9770.4 | 9210.4 | 7753.4 | 5894.8 | 3585.5 | 2034.8 | 1671.2 | 1771.6 | 2206.6 | 2657.4 | 2708.7 |
| 25° | 9634.3 | 8969.4 | 7260.3 | 4986.7 | 2374.0 | 1454.7 | 1401.2 | 1523.9 | 1818.4 | 2119.6 | 2148.6 |
| 27.5° | 9449.1 | 8683.8 | 6707.0 | 3947.0 | 1541.8 | 1198.2 | 1233.8 | 1316.4 | 1436.9 | 1570.8 | 1584.1 |
| 30° | 9210.4 | 8342.4 | 6115.7 | 2878.2 | 1164.7 | 1077.7 | 1129.0 | 1173.6 | 1224.9 | 1300.8 | 1307.5 |
| 32.5° | 8935.9 | 8014.4 | 5508.8 | 1988.0 | 1033.0 | 1015.2 | 1055.4 | 1077.7 | 1117.8 | 1164.7 | 1169.1 |
| 35° | 8706.1 | 7702.1 | 4879.6 | 1405.7 | 977.3 | 968.3 | 995.1 | 1004.0 | 1042.0 | 1093.3 | 1097.7 |
| 37.5° | 8574.5 | 7447.7 | 4230.3 | 1133.4 | 939.3 | 925.9 | 941.6 | 941.6 | 995.1 | 1071.0 | 1082.1 |
| 40° | 8583.4 | 7307.2 | 3581.1 | 1024.1 | 908.1 | 890.2 | 892.5 | 892.5 | 961.6 | 1044.2 | 1050.9 |
| 42.5° | 8826.6 | 7342.9 | 3005.4 | 981.7 | 883.6 | 863.5 | 852.3 | 859.0 | 917.0 | 970.6 | 975.0 |
| 45° | 9397.8 | 7595.0 | 2465.5 | 955.0 | 859.0 | 852.3 | 827.8 | 825.5 | 847.9 | 872.4 | 872.4 |
| 47.5° | 10334.9 | 8092.5 | 2099.6 | 937.1 | 838.9 | 836.7 | 807.7 | 778.7 | 776.5 | 785.4 | 785.4 |
| 50° | 11858.8 | 8949.3 | 1854.1 | 917.0 | 825.5 | 807.7 | 774.2 | 729.6 | 714.0 | 720.7 | 720.7 |
| 52.5° | 14143.5 | 10477.7 | 1760.4 | 890.2 | 796.5 | 767.5 | 729.6 | 685.0 | 671.6 | 673.8 | 673.8 |
| 55° | 17140.0 | 12824.9 | 1747.0 | 859.0 | 765.3 | 718.4 | 687.2 | 653.7 | 638.1 | 642.6 | 642.6 |
| 57.5° | 20801.4 | 16071.3 | 1985.8 | 809.9 | 722.9 | 669.4 | 651.5 | 629.2 | 618.0 | 624.7 | 622.5 |
| 60° | 25252.6 | 20319.5 | 2945.2 | 758.6 | 680.5 | 624.7 | 624.7 | 606.9 | 598.0 | 604.7 | 602.4 |
| 62.5° | 30379.9 | 25199.1 | 4141.1 | 720.7 | 635.9 | 589.0 | 598.0 | 589.0 | 580.1 | 584.6 | 582.3 |
| 65° | 34927.1 | 28378.5 | 3877.8 | 691.7 | 591.3 | 555.6 | 571.2 | 566.7 | 560.0 | 564.5 | 562.3 |
| 67.5° | 35058.7 | 27200.5 | 2177.6 | 660.4 | 548.9 | 522.1 | 544.4 | 542.2 | 537.7 | 542.2 | 539.9 |
| 70° | 31288.0 | 22967.9 | 1227.2 | 602.4 | 504.2 | 481.9 | 513.2 | 510.9 | 506.5 | 515.4 | 513.2 |
| 72.5° | 25067.4 | 16667.0 | 896.9 | 531.0 | 459.6 | 439.5 | 475.2 | 473.0 | 473.0 | 486.4 | 479.7 |
| 75° | 14424.7 | 8576.7 | 716.2 | 455.2 | 412.8 | 397.2 | 428.4 | 430.6 | 435.1 | 452.9 | 439.5 |
| 77.5° | 4112.1 | 2673.0 | 584.6 | 386.0 | 354.8 | 348.1 | 379.3 | 383.8 | 386.0 | 406.1 | 388.2 |
| 80° | 1528.4 | 1231.6 | 481.9 | 323.5 | 290.1 | 292.3 | 321.3 | 328.0 | 330.2 | 350.3 | 328.0 |
| 82.5° | 975.0 | 812.2 | 390.5 | 249.9 | 227.6 | 225.4 | 261.0 | 270.0 | 270.0 | 272.2 | 258.8 |
| 85° | 569.0 | 486.4 | 294.5 | 180.7 | 160.6 | 154.0 | 194.1 | 209.7 | 203.0 | 198.6 | 189.7 |
| 87.5° | 381.5 | 334.7 | 180.7 | 100.4 | 87.0 | 82.6 | 113.8 | 124.9 | 120.5 | 113.8 | 107.1 |
| 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)