

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: P301647

Luminaire Tested: **GAA-AF-05-LED-U-T2R-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194759)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-05-LED-U-T2R-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24950.3 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 210
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

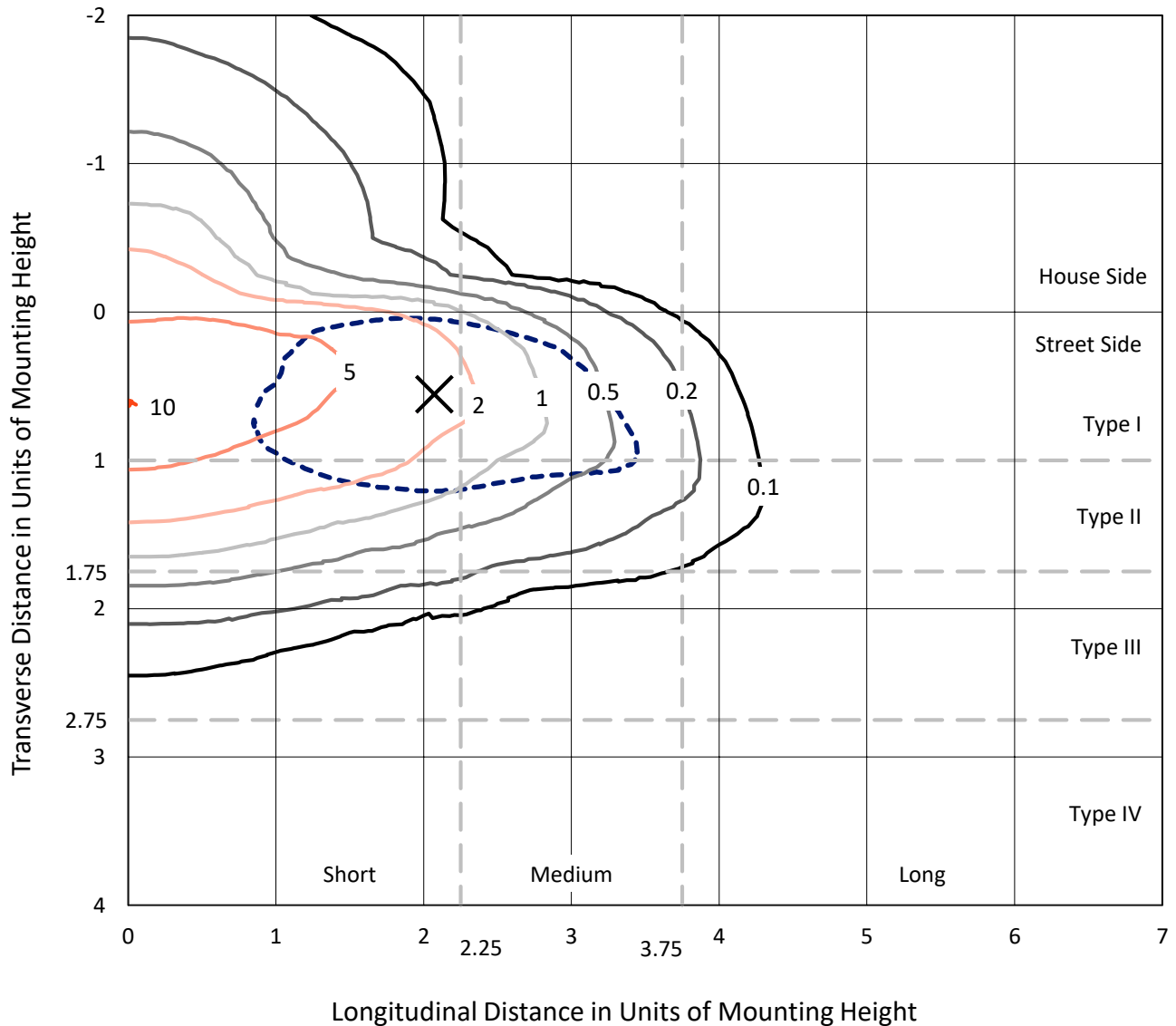


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Iso-Footcandle Lines of Horizontal Illumination

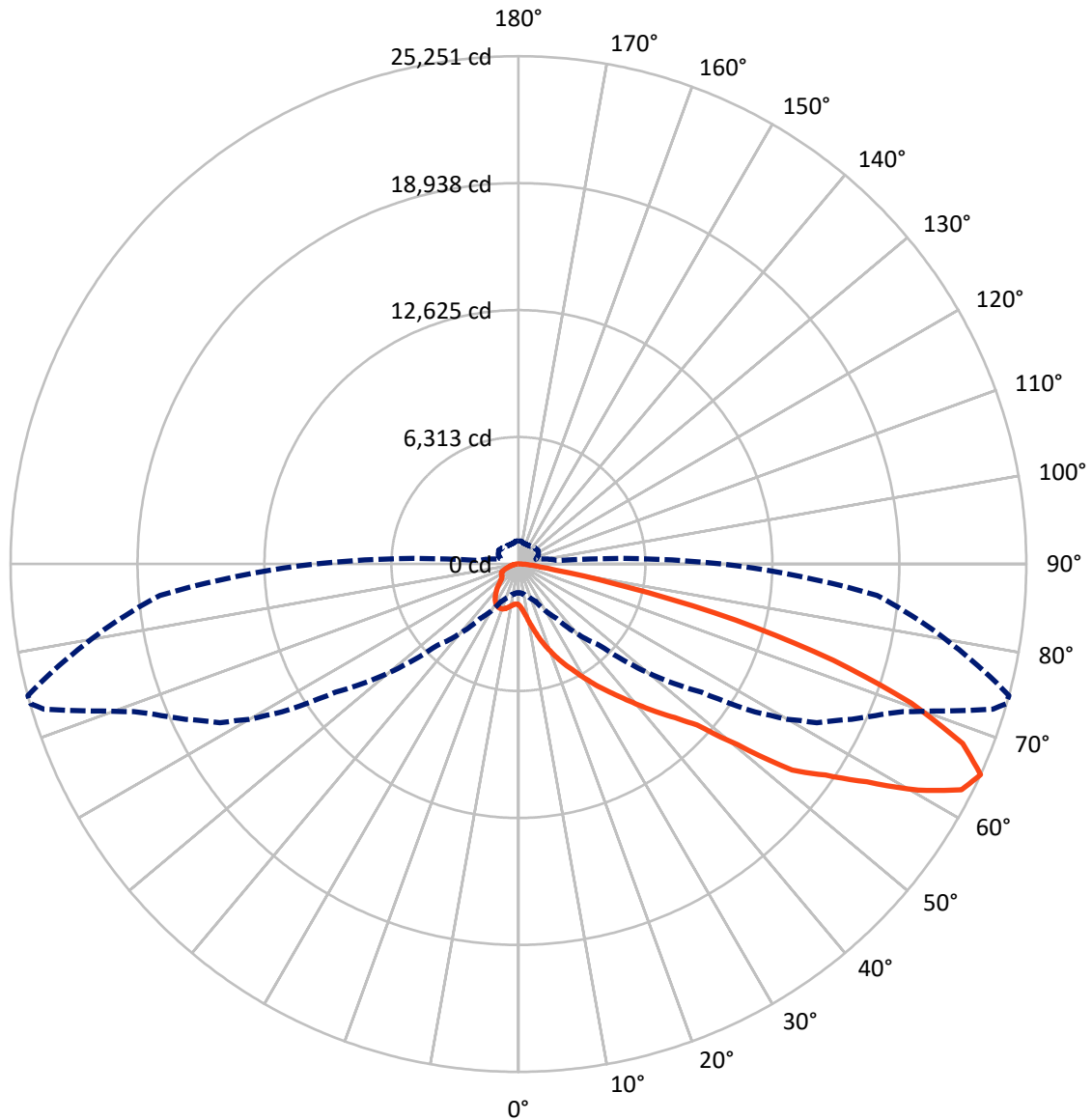
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3846.7 | 0.0 | 3846.7 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 21103.5 | 0.0 | 21103.5 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 24950.3 | 0.0 | 24950.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 250.6 | 1.0 |
| 10°-20° | 979.3 | 3.9 |
| 20°-30° | 2009.1 | 8.1 |
| 30°-40° | 3380.3 | 13.5 |
| 40°-50° | 4670.6 | 18.7 |
| 50°-60° | 5830.3 | 23.4 |
| 60°-70° | 5246.6 | 21.0 |
| 70°-80° | 2199.3 | 8.8 |
| 80°-90° | 384.2 | 1.5 |
| 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° | 24950.3 | 100.0 |
| 0°-180° | 24950.3 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P301647

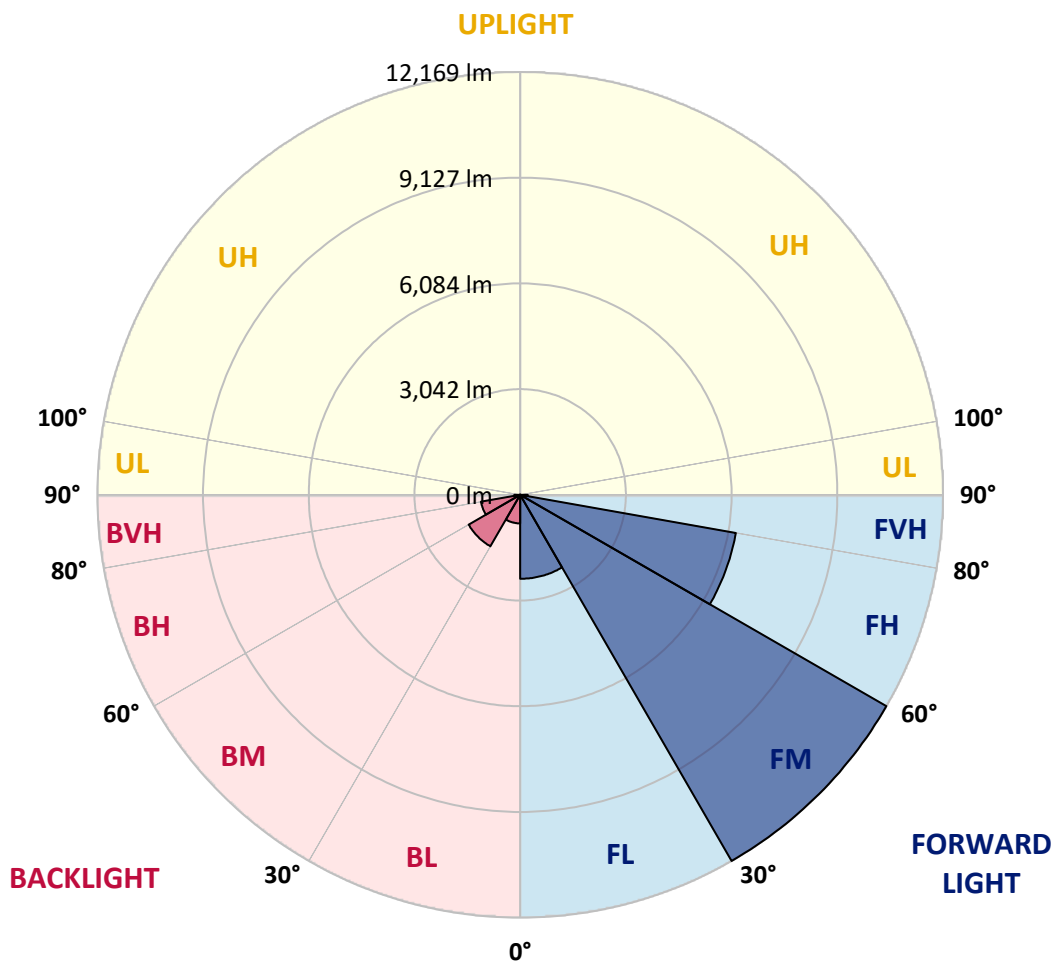
CATALOG NUMBER: GAA-AF-05-LED-U-T2R-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2416.4 | 9.7 | | | |
| FM (30°-60°) | 12168.9 | 48.8 | | | |
| FH (60°-80°) | 6302.4 | 25.3 | | | G3/7500 |
| FVH (80°-90°) | 216.0 | 0.9 | | | G2/225 |
| BL (0°-30°) | 822.7 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 1712.2 | 6.9 | B2/2500 | | |
| BH (60°-80°) | 1143.6 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 168.3 | 0.7 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P301647

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 |
| 2.5° | 2574.6 | 2546.2 | 2553.2 | 2505.9 | 2448.1 | 2372.4 | 2288.7 | 2287.6 | 2288.7 | 2280.3 | 2249.8 |
| 5° | 3569.8 | 3535.8 | 3522.9 | 3416.4 | 3260.5 | 3038.7 | 2797.7 | 2771.8 | 2760.9 | 2734.0 | 2671.2 |
| 7.5° | 4296.4 | 4277.5 | 4257.2 | 4176.9 | 4035.4 | 3787.4 | 3463.7 | 3408.3 | 3355.1 | 3342.1 | 3271.4 |
| 10° | 4765.1 | 4760.2 | 4717.9 | 4696.5 | 4608.2 | 4393.1 | 4077.8 | 4024.6 | 3966.8 | 3946.8 | 3872.2 |
| 12.5° | 5135.8 | 5134.7 | 5114.8 | 5120.7 | 5043.7 | 4888.1 | 4616.3 | 4567.9 | 4525.5 | 4463.9 | 4411.0 |
| 15° | 5392.2 | 5393.3 | 5423.1 | 5456.0 | 5444.1 | 5339.0 | 5083.9 | 5062.6 | 5026.1 | 4983.7 | 4921.0 |
| 17.5° | 5602.4 | 5608.4 | 5638.9 | 5699.1 | 5764.3 | 5755.9 | 5554.1 | 5536.2 | 5504.3 | 5446.5 | 5413.6 |
| 20° | 6077.1 | 6099.5 | 6040.7 | 6040.7 | 6047.7 | 6079.6 | 5982.5 | 5968.5 | 5923.7 | 5892.8 | 5866.9 |
| 22.5° | 6879.0 | 6904.9 | 6771.5 | 6635.9 | 6502.4 | 6405.4 | 6308.7 | 6326.2 | 6295.7 | 6274.4 | 6258.9 |
| 25° | 7920.5 | 7940.9 | 7724.7 | 7495.6 | 7223.7 | 6869.6 | 6629.9 | 6619.1 | 6602.6 | 6589.6 | 6582.6 |
| 27.5° | 8900.8 | 8909.2 | 8704.9 | 8369.3 | 8054.0 | 7545.0 | 6955.7 | 6942.8 | 6922.8 | 6897.9 | 6876.6 |
| 30° | 9739.4 | 9737.0 | 9526.8 | 9206.6 | 8868.9 | 8305.5 | 7450.8 | 7410.5 | 7351.3 | 7284.0 | 7232.1 |
| 32.5° | 10465.7 | 10462.2 | 10231.6 | 9899.9 | 9545.7 | 9059.1 | 8128.6 | 8046.0 | 7953.8 | 7822.4 | 7743.6 |
| 35° | 11037.0 | 11034.9 | 10817.4 | 10471.6 | 10065.2 | 9768.9 | 8905.7 | 8804.1 | 8687.1 | 8511.2 | 8389.6 |
| 37.5° | 11253.2 | 11253.2 | 11131.6 | 10895.5 | 10536.4 | 10333.2 | 9768.9 | 9645.9 | 9520.8 | 9321.1 | 9184.2 |
| 40° | 11126.7 | 11129.2 | 11155.1 | 11111.7 | 10936.9 | 10781.0 | 10574.3 | 10501.0 | 10393.5 | 10214.1 | 10071.2 |
| 42.5° | 10702.8 | 10715.8 | 10888.5 | 11099.8 | 11187.0 | 11162.5 | 11288.6 | 11255.7 | 11180.0 | 11042.0 | 10928.4 |
| 45° | 10165.4 | 10205.7 | 10394.5 | 10793.9 | 11256.7 | 11491.8 | 11887.3 | 11890.8 | 11876.8 | 11802.5 | 11714.9 |
| 47.5° | 9427.6 | 9484.0 | 9733.5 | 10273.0 | 11093.8 | 11812.0 | 12495.5 | 12527.3 | 12557.1 | 12508.8 | 12468.5 |
| 50° | 8447.4 | 8514.7 | 8887.8 | 9603.5 | 10762.0 | 12143.7 | 13644.5 | 13788.9 | 13923.4 | 13906.9 | 13933.9 |
| 52.5° | 7397.5 | 7476.7 | 7933.5 | 8730.8 | 10191.7 | 12220.5 | 14379.2 | 14614.2 | 14849.3 | 15041.6 | 15245.9 |
| 55° | 6450.2 | 6407.8 | 6865.0 | 7704.4 | 9253.9 | 11874.3 | 15039.5 | 15322.9 | 15585.0 | 15821.1 | 16064.6 |
| 57.5° | 5166.6 | 5236.3 | 5694.6 | 6524.8 | 8012.7 | 10897.6 | 15493.9 | 15908.7 | 16285.3 | 16676.3 | 17021.0 |
| 60° | 3776.5 | 3846.2 | 4343.4 | 5186.6 | 6665.3 | 9416.8 | 15146.7 | 15775.2 | 16378.5 | 16977.2 | 17444.9 |
| 62.5° | 2280.3 | 2332.5 | 2770.4 | 3573.7 | 5139.6 | 7660.9 | 13599.7 | 14424.0 | 15312.1 | 16027.8 | 16744.6 |
| 65° | 1419.5 | 1449.0 | 1610.8 | 2052.6 | 3300.8 | 5719.4 | 11111.7 | 12010.3 | 12966.6 | 13875.0 | 14620.2 |
| 67.5° | 1162.0 | 1172.5 | 1202.3 | 1296.6 | 1812.6 | 3729.6 | 8270.2 | 9066.1 | 9929.3 | 10807.9 | 11637.2 |
| 70° | 1045.0 | 1038.0 | 1038.0 | 1044.0 | 1162.0 | 2005.3 | 5414.7 | 5933.1 | 6652.4 | 7416.4 | 8174.5 |
| 72.5° | 943.4 | 936.4 | 923.5 | 905.9 | 948.3 | 1223.3 | 2798.8 | 3189.7 | 3708.2 | 4387.1 | 5113.4 |
| 75° | 847.8 | 838.3 | 823.3 | 800.8 | 830.3 | 923.5 | 1343.9 | 1508.2 | 1760.7 | 2122.3 | 2527.3 |
| 77.5° | 748.6 | 736.7 | 722.7 | 706.3 | 744.1 | 718.2 | 787.5 | 846.7 | 943.4 | 1059.4 | 1211.8 |
| 80° | 636.5 | 626.0 | 621.1 | 613.1 | 657.9 | 546.9 | 556.3 | 592.8 | 649.5 | 712.2 | 783.0 |
| 82.5° | 498.5 | 498.5 | 517.1 | 520.9 | 570.3 | 393.4 | 415.8 | 447.7 | 477.1 | 510.1 | 543.4 |
| 85° | 328.3 | 330.7 | 394.5 | 419.3 | 449.8 | 264.5 | 311.8 | 322.3 | 346.1 | 365.0 | 379.1 |
| 87.5° | 102.6 | 111.1 | 241.0 | 266.9 | 258.5 | 149.9 | 191.3 | 196.2 | 212.6 | 225.6 | 237.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P301647

CATALOG NUMBER: GAA-AF-05-LED-U-T2R-800

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 |
| 2.5° | 2249.8 | 2235.4 | 2222.5 | 2221.4 | 2212.0 | 2199.0 | 2203.6 | 2183.6 | 2184.6 | 2174.1 | 2162.2 |
| 5° | 2645.3 | 2635.9 | 2588.6 | 2575.6 | 2540.2 | 2517.8 | 2514.3 | 2467.0 | 2461.0 | 2434.1 | 2404.3 |
| 7.5° | 3214.6 | 3183.8 | 3117.6 | 3085.7 | 3025.4 | 2980.6 | 2959.6 | 2896.9 | 2866.0 | 2795.3 | 2763.4 |
| 10° | 3810.9 | 3772.0 | 3690.3 | 3645.5 | 3587.7 | 3515.5 | 3476.6 | 3385.9 | 3350.2 | 3285.4 | 3207.6 |
| 12.5° | 4363.7 | 4324.8 | 4240.7 | 4206.4 | 4129.7 | 4052.9 | 4010.5 | 3907.9 | 3861.7 | 3757.6 | 3696.3 |
| 15° | 4874.8 | 4835.9 | 4762.7 | 4727.3 | 4650.6 | 4587.9 | 4531.1 | 4429.9 | 4375.6 | 4278.5 | 4198.3 |
| 17.5° | 5370.9 | 5329.5 | 5265.8 | 5233.9 | 5159.6 | 5095.9 | 5034.5 | 4938.6 | 4883.2 | 4786.5 | 4714.3 |
| 20° | 5831.5 | 5800.7 | 5754.8 | 5712.1 | 5637.8 | 5580.0 | 5506.8 | 5424.1 | 5343.9 | 5272.8 | 5204.5 |
| 22.5° | 6233.0 | 6221.1 | 6171.7 | 6152.8 | 6089.0 | 6039.3 | 5975.5 | 5894.2 | 5836.1 | 5746.4 | 5682.7 |
| 25° | 6579.1 | 6575.6 | 6551.8 | 6545.9 | 6501.0 | 6453.7 | 6439.7 | 6372.4 | 6319.2 | 6240.0 | 6174.2 |
| 27.5° | 6876.6 | 6880.1 | 6874.5 | 6890.9 | 6879.0 | 6857.6 | 6859.0 | 6836.6 | 6805.8 | 6739.6 | 6681.8 |
| 30° | 7207.3 | 7188.4 | 7199.2 | 7222.7 | 7229.7 | 7232.1 | 7271.0 | 7284.0 | 7281.9 | 7238.1 | 7209.7 |
| 32.5° | 7675.0 | 7630.1 | 7588.8 | 7585.3 | 7608.7 | 7618.2 | 7684.4 | 7718.8 | 7748.2 | 7758.7 | 7763.6 |
| 35° | 8271.2 | 8181.5 | 8095.4 | 8049.5 | 8009.2 | 8019.7 | 8067.0 | 8122.7 | 8187.5 | 8232.3 | 8285.6 |
| 37.5° | 9022.3 | 8912.7 | 8760.3 | 8651.7 | 8624.3 | 8565.5 | 8596.0 | 8639.8 | 8703.5 | 8773.2 | 8865.4 |
| 40° | 9932.8 | 9766.4 | 9595.1 | 9451.1 | 9373.3 | 9264.4 | 9263.3 | 9254.9 | 9294.2 | 9359.0 | 9489.0 |
| 42.5° | 10809.3 | 10661.5 | 10479.7 | 10328.7 | 10227.1 | 10081.7 | 10052.3 | 9975.6 | 9993.1 | 10049.8 | 10176.3 |
| 45° | 11629.8 | 11508.2 | 11397.2 | 11222.7 | 11136.2 | 10979.2 | 10929.5 | 10838.8 | 10788.0 | 10813.9 | 10940.4 |
| 47.5° | 12424.7 | 12346.9 | 12231.0 | 12117.8 | 12051.6 | 11911.1 | 11847.4 | 11782.2 | 11717.4 | 11714.9 | 11847.4 |
| 50° | 13974.2 | 13932.8 | 13795.9 | 13677.8 | 13709.7 | 13537.3 | 13547.8 | 13373.0 | 13452.2 | 13461.7 | 13739.1 |
| 52.5° | 15430.1 | 15574.5 | 15676.1 | 15799.7 | 15880.3 | 15895.7 | 15948.6 | 16027.8 | 16123.4 | 16312.3 | 16569.8 |
| 55° | 16263.9 | 16444.7 | 16549.8 | 16644.4 | 16800.3 | 16833.2 | 16921.8 | 17026.9 | 17110.7 | 17323.3 | 17541.9 |
| 57.5° | 17255.0 | 17590.3 | 17753.2 | 17903.1 | 18113.3 | 18193.5 | 18341.4 | 18455.9 | 18564.5 | 18816.1 | 19080.6 |
| 60° | 17865.3 | 18274.1 | 18605.9 | 18843.0 | 19106.5 | 19295.7 | 19518.8 | 19698.2 | 19953.2 | 20254.5 | 20649.0 |
| 62.5° | 17380.1 | 17979.8 | 18420.5 | 18828.0 | 19185.6 | 19547.2 | 19867.0 | 20202.6 | 20589.8 | 21045.5 | 21657.6 |
| 65° | 15447.0 | 16057.2 | 16811.8 | 17234.7 | 17708.3 | 18265.7 | 18752.3 | 19295.7 | 19823.2 | 20487.1 | 21391.7 |
| 67.5° | 12435.6 | 13145.0 | 13993.1 | 14419.5 | 14963.9 | 15586.0 | 16131.8 | 16795.4 | 17411.9 | 18215.9 | 19334.5 |
| 70° | 8963.5 | 9881.0 | 10594.2 | 11039.5 | 11675.0 | 12316.1 | 12843.0 | 13615.1 | 14125.2 | 14949.5 | 16105.9 |
| 72.5° | 5675.6 | 6399.4 | 7273.5 | 7834.4 | 8398.7 | 9048.6 | 9587.0 | 10253.0 | 10728.8 | 11479.9 | 12527.3 |
| 75° | 3051.7 | 3585.2 | 4352.8 | 4885.7 | 5490.3 | 6045.2 | 6675.8 | 7122.1 | 7474.2 | 8068.4 | 8918.6 |
| 77.5° | 1430.0 | 1754.8 | 2143.3 | 2553.2 | 2963.1 | 3390.5 | 3806.3 | 4167.5 | 4318.8 | 4659.0 | 5160.7 |
| 80° | 868.1 | 973.2 | 1086.4 | 1212.8 | 1384.1 | 1522.2 | 1705.4 | 1837.5 | 1846.9 | 1954.5 | 2107.9 |
| 82.5° | 579.8 | 618.7 | 653.0 | 684.9 | 728.7 | 763.0 | 801.9 | 847.8 | 866.7 | 891.6 | 941.3 |
| 85° | 395.5 | 414.4 | 421.4 | 441.8 | 436.9 | 448.8 | 464.2 | 479.6 | 487.7 | 486.6 | 509.0 |
| 87.5° | 243.1 | 252.6 | 257.5 | 262.0 | 258.5 | 254.0 | 261.0 | 269.4 | 271.5 | 264.5 | 266.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P301647

CATALOG NUMBER: GAA-AF-05-LED-U-T2R-800

CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 | 2027.7 |
| 2.5° | 2164.7 | 2154.2 | 2143.3 | 2136.3 | 2133.8 | 2071.5 | 2044.2 | 2026.6 | 1988.8 | 1958.0 | 1933.1 |
| 5° | 2387.8 | 2365.4 | 2347.9 | 2326.5 | 2314.6 | 2156.3 | 2098.5 | 2058.5 | 1992.3 | 1953.4 | 1917.7 |
| 7.5° | 2746.9 | 2684.2 | 2647.8 | 2606.4 | 2571.0 | 2285.2 | 2189.5 | 2126.8 | 2034.7 | 1982.8 | 1942.6 |
| 10° | 3154.3 | 3089.5 | 3031.4 | 2967.6 | 2912.3 | 2456.5 | 2317.1 | 2220.0 | 2098.5 | 2031.2 | 1977.9 |
| 12.5° | 3609.1 | 3545.3 | 3472.1 | 3390.5 | 3319.7 | 2673.7 | 2480.0 | 2341.9 | 2175.2 | 2085.5 | 2011.2 |
| 15° | 4146.5 | 4034.0 | 3945.4 | 3851.1 | 3768.5 | 2933.6 | 2670.2 | 2478.9 | 2256.8 | 2135.2 | 2036.1 |
| 17.5° | 4645.7 | 4527.6 | 4407.5 | 4324.8 | 4229.1 | 3225.1 | 2861.5 | 2618.0 | 2324.1 | 2167.1 | 2040.7 |
| 20° | 5133.7 | 5004.8 | 4901.1 | 4790.0 | 4689.5 | 3527.4 | 3065.7 | 2741.0 | 2367.9 | 2168.2 | 2011.2 |
| 22.5° | 5563.5 | 5483.0 | 5367.4 | 5246.8 | 5145.3 | 3829.8 | 3257.0 | 2845.0 | 2384.3 | 2141.2 | 1959.0 |
| 25° | 6052.2 | 5967.5 | 5825.6 | 5724.0 | 5610.8 | 4138.1 | 3444.8 | 2925.2 | 2374.9 | 2090.4 | 1878.8 |
| 27.5° | 6574.2 | 6480.0 | 6334.6 | 6228.5 | 6091.5 | 4457.9 | 3617.1 | 2983.0 | 2339.5 | 2007.7 | 1771.3 |
| 30° | 7118.6 | 7032.5 | 6889.5 | 6782.3 | 6643.9 | 4797.0 | 3809.8 | 3021.9 | 2268.7 | 1893.2 | 1646.2 |
| 32.5° | 7703.3 | 7631.2 | 7489.6 | 7377.5 | 7229.7 | 5164.2 | 3989.2 | 3033.8 | 2161.2 | 1757.2 | 1514.1 |
| 35° | 8258.3 | 8208.9 | 8089.4 | 7984.3 | 7830.9 | 5511.3 | 4179.4 | 3027.9 | 2033.6 | 1608.4 | 1393.6 |
| 37.5° | 8883.2 | 8853.5 | 8794.6 | 8661.1 | 8473.4 | 5982.5 | 4407.5 | 3003.0 | 1877.8 | 1460.9 | 1301.5 |
| 40° | 9549.2 | 9551.7 | 9487.9 | 9396.8 | 9222.0 | 6554.3 | 4679.0 | 2954.7 | 1707.5 | 1330.9 | 1217.4 |
| 42.5° | 10254.1 | 10290.9 | 10260.0 | 10195.2 | 10027.4 | 7130.6 | 5003.7 | 2895.8 | 1542.5 | 1204.4 | 1135.1 |
| 45° | 11061.9 | 11106.8 | 11154.1 | 11058.4 | 10895.5 | 7891.1 | 5431.1 | 2819.1 | 1363.8 | 1099.3 | 1078.3 |
| 47.5° | 11993.8 | 12064.6 | 12106.9 | 12108.3 | 11945.4 | 8833.5 | 6125.5 | 2772.8 | 1205.8 | 1028.6 | 1051.0 |
| 50° | 13959.8 | 13982.6 | 14082.8 | 14257.6 | 14132.5 | 11014.6 | 7338.3 | 2744.5 | 1098.3 | 984.8 | 1031.0 |
| 52.5° | 16792.9 | 17039.9 | 17213.7 | 17201.7 | 17031.5 | 12399.8 | 8006.7 | 2598.0 | 1034.5 | 968.3 | 1021.6 |
| 55° | 17946.9 | 18255.2 | 18576.4 | 18661.2 | 18529.1 | 13582.2 | 8638.7 | 2451.6 | 1003.7 | 980.2 | 1025.1 |
| 57.5° | 19484.5 | 20004.0 | 20444.7 | 20630.0 | 20438.8 | 15094.9 | 9470.0 | 2374.9 | 994.2 | 1012.1 | 1047.5 |
| 60° | 21280.6 | 21923.1 | 22501.8 | 22834.7 | 22834.7 | 16833.2 | 10332.2 | 2343.0 | 981.3 | 1059.4 | 1085.3 |
| 62.5° | 22434.6 | 23378.0 | 24252.1 | 24739.7 | 24725.4 | 18043.6 | 10714.7 | 2234.4 | 951.8 | 1092.3 | 1137.2 |
| 65° | 22439.1 | 23561.2 | 24674.6 | 25222.8 | 25250.9 | 17895.0 | 10083.1 | 1973.4 | 897.5 | 1097.2 | 1189.4 |
| 67.5° | 20568.7 | 21764.8 | 23062.7 | 23675.8 | 23817.3 | 16473.1 | 8728.4 | 1622.7 | 808.9 | 1049.9 | 1208.3 |
| 70° | 17371.7 | 18539.6 | 19864.6 | 20467.1 | 20718.7 | 14042.5 | 7030.0 | 1250.7 | 695.7 | 945.9 | 1169.0 |
| 72.5° | 13685.9 | 14831.4 | 15753.8 | 16194.2 | 16390.4 | 10733.7 | 5119.3 | 944.8 | 570.3 | 797.0 | 1063.9 |
| 75° | 9689.7 | 10549.4 | 11039.5 | 11137.6 | 11168.1 | 6470.5 | 3110.6 | 702.8 | 470.1 | 620.1 | 898.6 |
| 77.5° | 5469.0 | 5837.5 | 5797.2 | 5841.0 | 5477.4 | 2497.8 | 1354.7 | 503.1 | 387.5 | 471.2 | 696.8 |
| 80° | 2135.2 | 2201.5 | 2068.0 | 2026.6 | 1858.8 | 929.4 | 597.7 | 350.7 | 309.3 | 356.6 | 487.7 |
| 82.5° | 941.3 | 971.8 | 943.4 | 950.8 | 909.4 | 479.6 | 357.7 | 254.0 | 236.1 | 261.0 | 323.7 |
| 85° | 518.5 | 527.9 | 525.5 | 540.9 | 518.5 | 191.3 | 169.9 | 155.9 | 165.4 | 177.3 | 207.7 |
| 87.5° | 252.6 | 255.0 | 247.0 | 259.9 | 251.5 | 96.7 | 83.7 | 88.6 | 96.7 | 99.1 | 99.1 |
| 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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| 50° | 1059.4 | 1142.1 | 1188.0 | 1204.4 | 1230.7 | 1221.2 |
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