

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: P301642

Luminaire Tested: **GAA-AF-04-LED-U-T2R-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301642
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-04-LED-U-T2R-7050-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20137.1 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

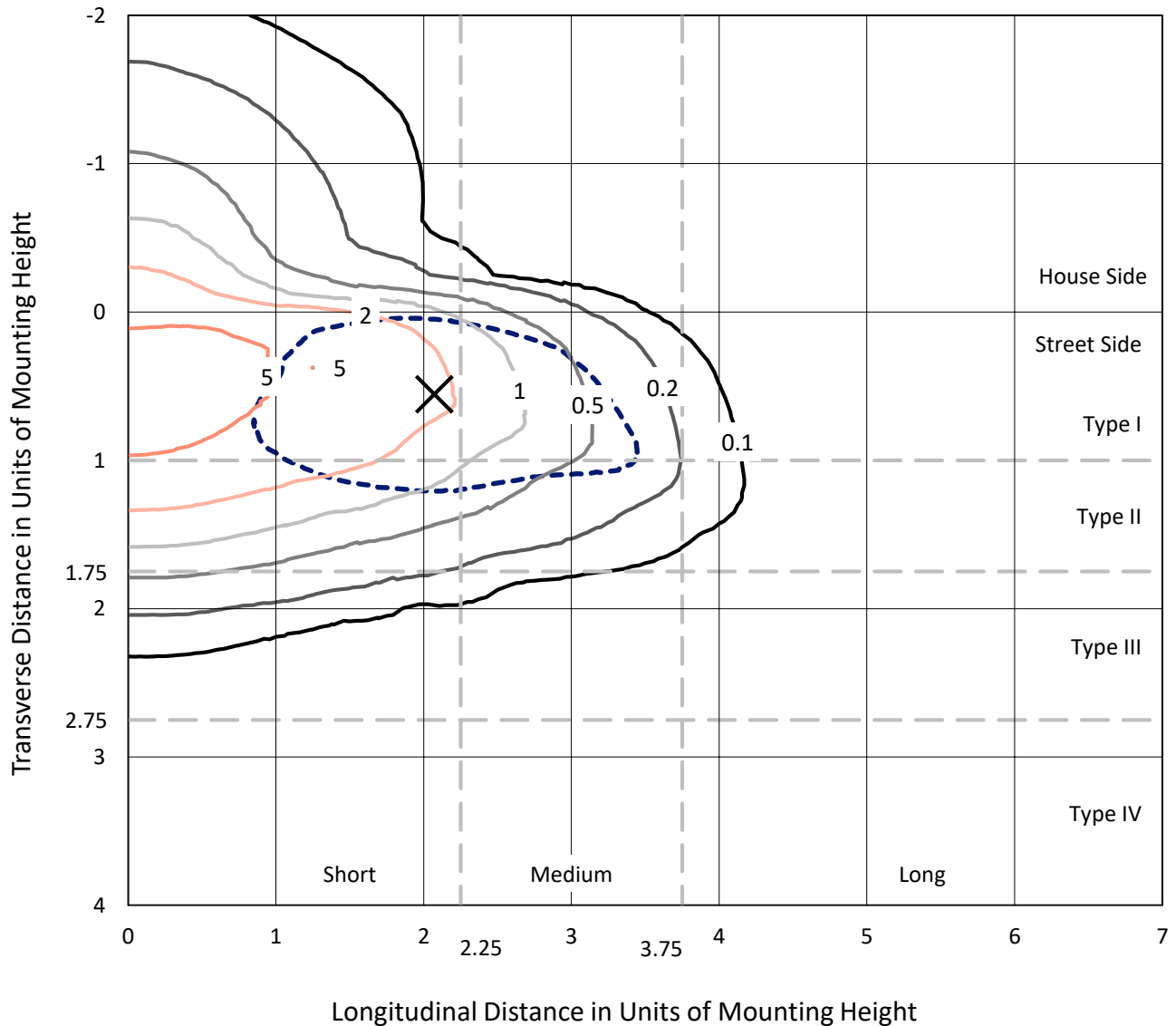
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P301642
 CATALOG NUMBER: GAA-AF-04-LED-U-T2R-7050-800

Iso-Footcandle Lines of Horizontal Illumination

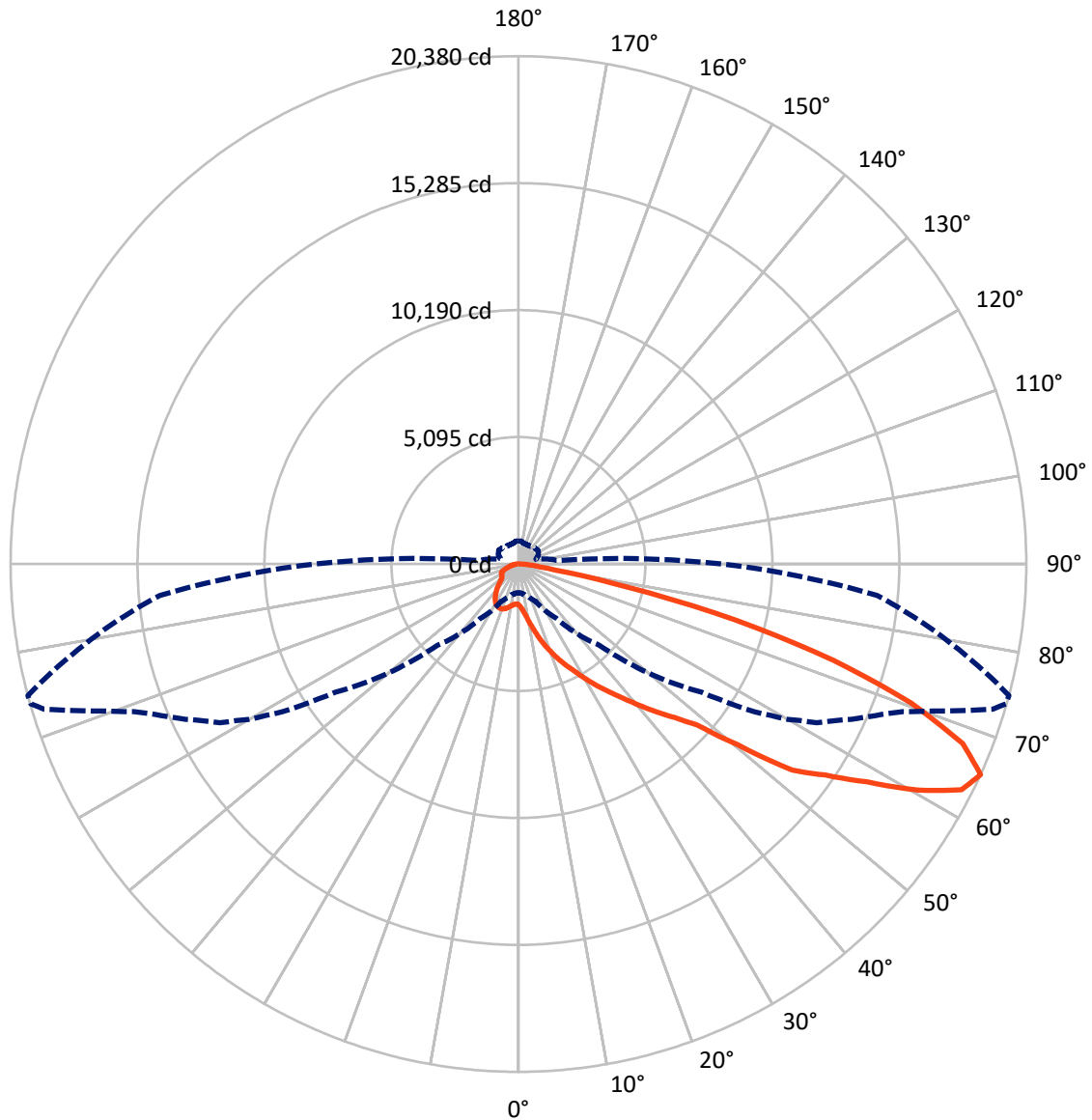
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P301642
CATALOG NUMBER: GAA-AF-04-LED-U-T2R-7050-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P301642

CATALOG NUMBER: GAA-AF-04-LED-U-T2R-7050-800

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3104.7 | 0.0 | 3104.7 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 17032.5 | 0.0 | 17032.5 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 20137.1 | 0.0 | 20137.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 202.3 | 1.0 |
| 10°-20° | 790.4 | 3.9 |
| 20°-30° | 1621.6 | 8.1 |
| 30°-40° | 2728.2 | 13.5 |
| 40°-50° | 3769.6 | 18.7 |
| 50°-60° | 4705.5 | 23.4 |
| 60°-70° | 4234.5 | 21.0 |
| 70°-80° | 1775.1 | 8.8 |
| 80°-90° | 310.1 | 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° | 20137.1 | 100.0 |
| 0°-180° | 20137.1 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P301642

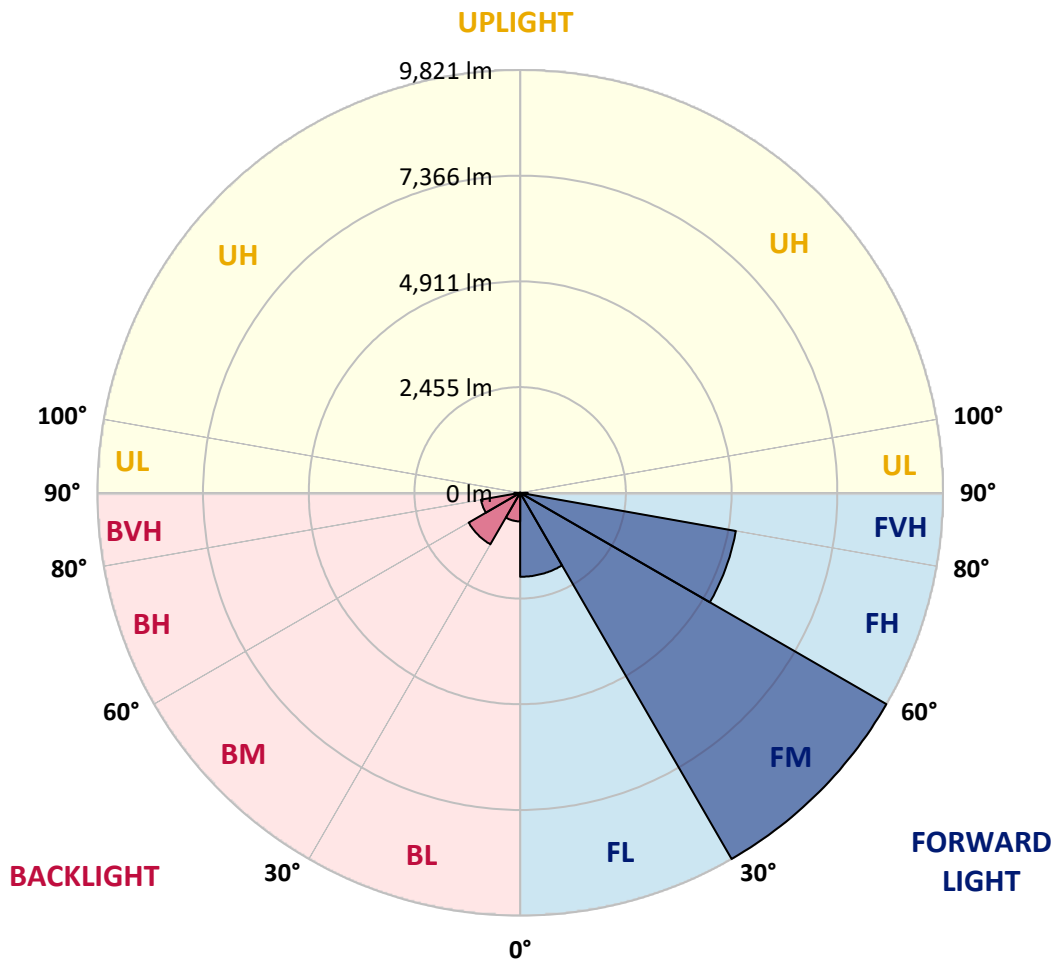
CATALOG NUMBER: GAA-AF-04-LED-U-T2R-7050-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1950.2 | 9.7 | | | |
| FM (30°-60°) | 9821.4 | 48.8 | | | |
| FH (60°-80°) | 5086.6 | 25.3 | | | G3/7500 |
| FVH (80°-90°) | 174.3 | 0.9 | | | G2/225 |
| BL (0°-30°) | 664.0 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 1381.9 | 6.9 | B2/2500 | | |
| BH (60°-80°) | 923.0 | 4.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 135.8 | 0.7 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type II Short





REPORT NUMBER: P301642
 CATALOG NUMBER: GAA-AF-04-LED-U-T2R-7050-800

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 |
| 2.5° | 2077.9 | 2055.0 | 2060.6 | 2022.5 | 1975.8 | 1914.8 | 1847.2 | 1846.3 | 1847.2 | 1840.4 | 1815.8 |
| 5° | 2881.2 | 2853.7 | 2843.3 | 2757.3 | 2631.5 | 2452.5 | 2258.0 | 2237.1 | 2228.3 | 2206.5 | 2155.9 |
| 7.5° | 3467.6 | 3452.3 | 3435.9 | 3371.2 | 3256.9 | 3056.8 | 2795.5 | 2750.8 | 2707.9 | 2697.4 | 2640.3 |
| 10° | 3845.9 | 3841.9 | 3807.7 | 3790.5 | 3719.2 | 3545.6 | 3291.2 | 3248.2 | 3201.5 | 3185.4 | 3125.2 |
| 12.5° | 4145.0 | 4144.2 | 4128.1 | 4132.9 | 4070.7 | 3945.1 | 3725.7 | 3686.7 | 3652.5 | 3602.7 | 3560.0 |
| 15° | 4352.0 | 4352.9 | 4376.9 | 4403.5 | 4393.9 | 4309.0 | 4103.2 | 4086.0 | 4056.5 | 4022.3 | 3971.7 |
| 17.5° | 4521.7 | 4526.5 | 4551.1 | 4599.7 | 4652.3 | 4645.5 | 4482.6 | 4468.2 | 4442.5 | 4395.8 | 4369.3 |
| 20° | 4904.8 | 4922.9 | 4875.4 | 4875.4 | 4881.0 | 4906.8 | 4828.4 | 4817.1 | 4780.9 | 4756.1 | 4735.1 |
| 22.5° | 5552.0 | 5572.9 | 5465.2 | 5355.8 | 5248.0 | 5169.7 | 5091.7 | 5105.8 | 5081.2 | 5064.0 | 5051.5 |
| 25° | 6392.6 | 6409.0 | 6234.5 | 6049.6 | 5830.2 | 5544.4 | 5351.0 | 5342.2 | 5328.9 | 5318.4 | 5312.8 |
| 27.5° | 7183.7 | 7190.5 | 7025.7 | 6754.8 | 6500.3 | 6089.5 | 5613.9 | 5603.4 | 5587.3 | 5567.3 | 5550.0 |
| 30° | 7860.6 | 7858.6 | 7689.0 | 7430.5 | 7158.0 | 6703.3 | 6013.4 | 5980.9 | 5933.1 | 5878.8 | 5837.0 |
| 32.5° | 8446.7 | 8443.9 | 8257.9 | 7990.1 | 7704.2 | 7311.5 | 6560.5 | 6493.8 | 6419.5 | 6313.4 | 6249.8 |
| 35° | 8907.9 | 8906.2 | 8730.6 | 8451.5 | 8123.6 | 7884.4 | 7187.7 | 7105.7 | 7011.2 | 6869.3 | 6771.2 |
| 37.5° | 9082.3 | 9082.3 | 8984.2 | 8793.7 | 8503.8 | 8339.9 | 7884.4 | 7785.1 | 7684.2 | 7523.0 | 7412.5 |
| 40° | 8980.3 | 8982.3 | 9003.2 | 8968.1 | 8827.0 | 8701.2 | 8534.4 | 8475.3 | 8388.5 | 8243.7 | 8128.4 |
| 42.5° | 8638.2 | 8648.6 | 8788.0 | 8958.5 | 9028.9 | 9009.1 | 9110.9 | 9084.3 | 9023.3 | 8911.9 | 8820.2 |
| 45° | 8204.4 | 8236.9 | 8389.3 | 8711.7 | 9085.2 | 9274.9 | 9594.1 | 9596.9 | 9585.6 | 9525.7 | 9455.0 |
| 47.5° | 7609.0 | 7654.5 | 7855.8 | 8291.2 | 8953.7 | 9533.3 | 10085.0 | 10110.7 | 10134.7 | 10095.7 | 10063.2 |
| 50° | 6817.8 | 6872.1 | 7173.2 | 7750.9 | 8685.9 | 9801.1 | 11012.4 | 11128.9 | 11237.4 | 11224.1 | 11245.9 |
| 52.5° | 5970.5 | 6034.4 | 6403.1 | 7046.6 | 8225.6 | 9863.0 | 11605.3 | 11795.0 | 11984.7 | 12140.0 | 12304.8 |
| 55° | 5205.9 | 5171.7 | 5540.7 | 6218.1 | 7468.7 | 9583.7 | 12138.3 | 12367.0 | 12578.5 | 12769.1 | 12965.6 |
| 57.5° | 4169.9 | 4226.2 | 4596.0 | 5266.1 | 6467.0 | 8795.4 | 12505.0 | 12839.7 | 13143.7 | 13459.2 | 13737.5 |
| 60° | 3048.0 | 3104.3 | 3505.5 | 4186.0 | 5379.5 | 7600.2 | 12224.8 | 12732.0 | 13218.9 | 13702.1 | 14079.6 |
| 62.5° | 1840.4 | 1882.5 | 2236.0 | 2884.3 | 4148.2 | 6183.1 | 10976.2 | 11641.5 | 12358.2 | 12935.9 | 13514.4 |
| 65° | 1145.7 | 1169.4 | 1300.1 | 1656.6 | 2664.0 | 4616.1 | 8968.1 | 9693.4 | 10465.3 | 11198.4 | 11799.8 |
| 67.5° | 937.9 | 946.3 | 970.4 | 1046.4 | 1462.9 | 3010.1 | 6674.8 | 7317.2 | 8013.9 | 8723.0 | 9392.2 |
| 70° | 843.4 | 837.8 | 837.8 | 842.6 | 937.9 | 1618.4 | 4370.1 | 4788.6 | 5369.1 | 5985.7 | 6597.6 |
| 72.5° | 761.4 | 755.8 | 745.3 | 731.2 | 765.4 | 987.3 | 2258.9 | 2574.4 | 2992.9 | 3540.8 | 4127.0 |
| 75° | 684.2 | 676.6 | 664.5 | 646.4 | 670.1 | 745.3 | 1084.6 | 1217.2 | 1421.1 | 1712.9 | 2039.7 |
| 77.5° | 604.2 | 594.6 | 583.3 | 570.0 | 600.6 | 579.6 | 635.6 | 683.4 | 761.4 | 855.0 | 978.0 |
| 80° | 513.7 | 505.3 | 501.3 | 494.8 | 531.0 | 441.4 | 449.0 | 478.4 | 524.2 | 574.8 | 631.9 |
| 82.5° | 402.3 | 402.3 | 417.3 | 420.4 | 460.3 | 317.5 | 335.6 | 361.3 | 385.1 | 411.7 | 438.5 |
| 85° | 264.9 | 266.9 | 318.4 | 338.4 | 363.0 | 213.5 | 251.6 | 260.1 | 279.4 | 294.6 | 305.9 |
| 87.5° | 82.8 | 89.6 | 194.5 | 215.5 | 208.7 | 121.0 | 154.4 | 158.3 | 171.6 | 182.1 | 191.7 |
| 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: P301642
 CATALOG NUMBER: GAA-AF-04-LED-U-T2R-7050-800

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 |
| 2.5° | 1815.8 | 1804.2 | 1793.7 | 1792.9 | 1785.3 | 1774.8 | 1778.5 | 1762.4 | 1763.2 | 1754.7 | 1745.1 |
| 5° | 2135.0 | 2127.4 | 2089.2 | 2078.7 | 2050.2 | 2032.1 | 2029.3 | 1991.1 | 1986.3 | 1964.5 | 1940.5 |
| 7.5° | 2594.5 | 2569.6 | 2516.2 | 2490.4 | 2441.8 | 2405.6 | 2388.6 | 2338.0 | 2313.1 | 2256.0 | 2230.3 |
| 10° | 3075.7 | 3044.3 | 2978.4 | 2942.2 | 2895.6 | 2837.3 | 2806.0 | 2732.7 | 2703.9 | 2651.6 | 2588.8 |
| 12.5° | 3521.9 | 3490.5 | 3422.6 | 3394.9 | 3333.0 | 3271.1 | 3236.9 | 3154.0 | 3116.7 | 3032.7 | 2983.2 |
| 15° | 3934.4 | 3903.0 | 3843.9 | 3815.4 | 3753.4 | 3702.8 | 3657.0 | 3575.3 | 3531.5 | 3453.2 | 3388.4 |
| 17.5° | 4334.8 | 4301.4 | 4249.9 | 4224.2 | 4164.3 | 4112.8 | 4063.3 | 3985.9 | 3941.2 | 3863.1 | 3804.9 |
| 20° | 4706.6 | 4681.7 | 4644.7 | 4610.2 | 4550.2 | 4503.6 | 4444.5 | 4377.7 | 4313.0 | 4255.6 | 4200.5 |
| 22.5° | 5030.6 | 5021.0 | 4981.1 | 4965.9 | 4914.4 | 4874.2 | 4822.8 | 4757.2 | 4710.3 | 4637.9 | 4586.4 |
| 25° | 5310.0 | 5307.1 | 5287.9 | 5283.1 | 5246.9 | 5208.7 | 5197.4 | 5143.1 | 5100.2 | 5036.3 | 4983.1 |
| 27.5° | 5550.0 | 5552.8 | 5548.3 | 5561.6 | 5552.0 | 5534.7 | 5535.9 | 5517.8 | 5492.9 | 5439.5 | 5392.8 |
| 30° | 5816.9 | 5801.7 | 5810.4 | 5829.4 | 5835.0 | 5837.0 | 5868.4 | 5878.8 | 5877.1 | 5841.8 | 5818.9 |
| 32.5° | 6194.4 | 6158.2 | 6124.8 | 6122.0 | 6140.9 | 6148.6 | 6202.0 | 6229.7 | 6253.5 | 6262.0 | 6265.9 |
| 35° | 6675.6 | 6603.2 | 6533.7 | 6496.6 | 6464.1 | 6472.6 | 6510.8 | 6555.7 | 6608.0 | 6644.2 | 6687.2 |
| 37.5° | 7281.8 | 7193.3 | 7070.3 | 6982.7 | 6960.6 | 6913.1 | 6937.7 | 6973.1 | 7024.5 | 7080.8 | 7155.2 |
| 40° | 8016.7 | 7882.4 | 7744.1 | 7627.9 | 7565.1 | 7477.2 | 7476.4 | 7469.6 | 7501.2 | 7553.5 | 7658.4 |
| 42.5° | 8724.1 | 8604.8 | 8458.0 | 8336.2 | 8254.2 | 8136.8 | 8113.1 | 8051.2 | 8065.3 | 8111.1 | 8213.2 |
| 45° | 9386.3 | 9288.2 | 9198.6 | 9057.7 | 8987.9 | 8861.2 | 8821.1 | 8747.9 | 8706.9 | 8727.8 | 8829.9 |
| 47.5° | 10027.8 | 9965.1 | 9871.5 | 9780.2 | 9726.7 | 9613.3 | 9561.9 | 9509.3 | 9457.0 | 9455.0 | 9561.9 |
| 50° | 11278.4 | 11245.1 | 11134.5 | 11039.2 | 11065.0 | 10925.8 | 10934.3 | 10793.2 | 10857.1 | 10864.8 | 11088.7 |
| 52.5° | 12453.5 | 12570.0 | 12652.0 | 12751.8 | 12816.8 | 12829.3 | 12872.0 | 12935.9 | 13013.1 | 13165.5 | 13373.3 |
| 55° | 13126.5 | 13272.4 | 13357.2 | 13433.5 | 13559.3 | 13585.9 | 13657.4 | 13742.3 | 13809.8 | 13981.5 | 14157.9 |
| 57.5° | 13926.3 | 14196.9 | 14328.4 | 14449.4 | 14619.1 | 14683.8 | 14803.1 | 14895.6 | 14983.2 | 15186.3 | 15399.7 |
| 60° | 14418.9 | 14748.8 | 15016.6 | 15208.0 | 15420.6 | 15573.3 | 15753.4 | 15898.2 | 16104.0 | 16347.2 | 16665.6 |
| 62.5° | 14027.3 | 14511.3 | 14867.0 | 15195.9 | 15484.6 | 15776.3 | 16034.5 | 16305.4 | 16617.8 | 16985.6 | 17479.6 |
| 65° | 12467.1 | 12959.6 | 13568.7 | 13909.9 | 14292.2 | 14742.1 | 15134.8 | 15573.3 | 15999.1 | 16534.9 | 17265.0 |
| 67.5° | 10036.6 | 10609.2 | 11293.7 | 11637.8 | 12077.2 | 12579.3 | 13019.9 | 13555.4 | 14053.0 | 14701.9 | 15604.7 |
| 70° | 7234.3 | 7974.8 | 8550.5 | 8909.9 | 9422.8 | 9940.2 | 10365.4 | 10988.6 | 11400.3 | 12065.6 | 12998.9 |
| 72.5° | 4580.8 | 5164.9 | 5870.4 | 6323.0 | 6778.5 | 7303.0 | 7737.6 | 8275.1 | 8659.1 | 9265.3 | 10110.7 |
| 75° | 2463.0 | 2893.6 | 3513.1 | 3943.2 | 4431.2 | 4879.1 | 5388.0 | 5748.2 | 6032.4 | 6511.9 | 7198.1 |
| 77.5° | 1154.2 | 1416.3 | 1729.8 | 2060.6 | 2391.5 | 2736.4 | 3072.0 | 3363.5 | 3485.7 | 3760.2 | 4165.1 |
| 80° | 700.6 | 785.5 | 876.8 | 978.9 | 1117.1 | 1228.5 | 1376.4 | 1483.0 | 1490.6 | 1577.4 | 1701.3 |
| 82.5° | 467.9 | 499.3 | 527.0 | 552.8 | 588.1 | 615.8 | 647.2 | 684.2 | 699.5 | 719.6 | 759.7 |
| 85° | 319.2 | 334.5 | 340.1 | 356.5 | 352.6 | 362.2 | 374.6 | 387.1 | 393.6 | 392.7 | 410.8 |
| 87.5° | 196.2 | 203.9 | 207.8 | 211.5 | 208.7 | 205.0 | 210.6 | 217.4 | 219.1 | 213.5 | 215.5 |
| 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: P301642

CATALOG NUMBER: GAA-AF-04-LED-U-T2R-7050-800

CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 |
| 2.5° | 1747.1 | 1738.6 | 1729.8 | 1724.2 | 1722.2 | 1671.9 | 1649.8 | 1635.7 | 1605.1 | 1580.3 | 1560.2 |
| 5° | 1927.2 | 1909.1 | 1895.0 | 1877.7 | 1868.1 | 1740.3 | 1693.6 | 1661.4 | 1608.0 | 1576.6 | 1547.7 |
| 7.5° | 2217.0 | 2166.4 | 2137.0 | 2103.6 | 2075.1 | 1844.3 | 1767.2 | 1716.5 | 1642.2 | 1600.3 | 1567.8 |
| 10° | 2545.8 | 2493.5 | 2446.6 | 2395.1 | 2350.5 | 1982.6 | 1870.1 | 1791.8 | 1693.6 | 1639.4 | 1596.4 |
| 12.5° | 2912.8 | 2861.4 | 2802.3 | 2736.4 | 2679.3 | 2157.9 | 2001.6 | 1890.2 | 1755.6 | 1683.2 | 1623.2 |
| 15° | 3346.6 | 3255.8 | 3184.3 | 3108.2 | 3041.5 | 2367.7 | 2155.1 | 2000.7 | 1821.4 | 1723.3 | 1643.3 |
| 17.5° | 3749.5 | 3654.2 | 3557.2 | 3490.5 | 3413.3 | 2603.0 | 2309.5 | 2113.0 | 1875.7 | 1749.1 | 1647.0 |
| 20° | 4143.4 | 4039.3 | 3955.6 | 3866.0 | 3784.8 | 2847.0 | 2474.3 | 2212.2 | 1911.1 | 1749.9 | 1623.2 |
| 22.5° | 4490.3 | 4425.2 | 4331.9 | 4234.7 | 4152.7 | 3091.0 | 2628.7 | 2296.2 | 1924.4 | 1728.1 | 1581.1 |
| 25° | 4884.7 | 4816.3 | 4701.8 | 4619.8 | 4528.4 | 3339.8 | 2780.2 | 2360.9 | 1916.7 | 1687.1 | 1516.4 |
| 27.5° | 5306.0 | 5229.9 | 5112.6 | 5026.9 | 4916.4 | 3597.9 | 2919.3 | 2407.6 | 1888.2 | 1620.4 | 1429.6 |
| 30° | 5745.4 | 5675.8 | 5560.5 | 5474.0 | 5362.3 | 3871.6 | 3074.9 | 2439.0 | 1831.1 | 1528.0 | 1328.6 |
| 32.5° | 6217.3 | 6159.0 | 6044.8 | 5954.3 | 5835.0 | 4167.9 | 3219.6 | 2448.6 | 1744.3 | 1418.3 | 1222.0 |
| 35° | 6665.2 | 6625.3 | 6528.9 | 6444.0 | 6320.2 | 4448.2 | 3373.2 | 2443.8 | 1641.3 | 1298.1 | 1124.8 |
| 37.5° | 7169.6 | 7145.5 | 7098.0 | 6990.3 | 6838.8 | 4828.4 | 3557.2 | 2423.7 | 1515.5 | 1179.0 | 1050.4 |
| 40° | 7707.1 | 7709.1 | 7657.6 | 7584.1 | 7443.0 | 5289.9 | 3776.3 | 2384.7 | 1378.1 | 1074.1 | 982.5 |
| 42.5° | 8276.0 | 8305.6 | 8280.8 | 8228.5 | 8093.0 | 5755.0 | 4038.5 | 2337.2 | 1244.9 | 972.1 | 916.1 |
| 45° | 8928.0 | 8964.2 | 9002.3 | 8925.1 | 8793.7 | 6368.8 | 4383.4 | 2275.3 | 1100.7 | 887.3 | 870.3 |
| 47.5° | 9680.1 | 9737.2 | 9771.4 | 9772.5 | 9641.1 | 7129.4 | 4943.8 | 2237.9 | 973.2 | 830.1 | 848.2 |
| 50° | 11266.8 | 11285.2 | 11366.1 | 11507.2 | 11406.2 | 8889.8 | 5922.7 | 2215.0 | 886.4 | 794.8 | 832.1 |
| 52.5° | 13553.4 | 13752.7 | 13893.0 | 13883.4 | 13745.9 | 10007.8 | 6462.1 | 2096.8 | 834.9 | 781.5 | 824.5 |
| 55° | 14484.8 | 14733.6 | 14992.9 | 15061.3 | 14954.7 | 10962.0 | 6972.2 | 1978.7 | 810.1 | 791.1 | 827.3 |
| 57.5° | 15725.7 | 16145.0 | 16500.7 | 16650.3 | 16495.9 | 12182.9 | 7643.2 | 1916.7 | 802.4 | 816.9 | 845.4 |
| 60° | 17175.4 | 17693.9 | 18161.0 | 18429.6 | 18429.6 | 13585.9 | 8339.0 | 1891.0 | 792.0 | 855.0 | 875.9 |
| 62.5° | 18106.7 | 18868.2 | 19573.6 | 19967.2 | 19955.6 | 14562.8 | 8647.8 | 1803.3 | 768.2 | 881.6 | 917.8 |
| 65° | 18110.4 | 19016.0 | 19914.6 | 20357.1 | 20379.7 | 14442.9 | 8138.0 | 1592.7 | 724.4 | 885.6 | 959.9 |
| 67.5° | 16600.8 | 17566.1 | 18613.7 | 19108.5 | 19222.7 | 13295.3 | 7044.6 | 1309.7 | 652.9 | 847.4 | 975.2 |
| 70° | 14020.5 | 14963.2 | 16032.5 | 16518.8 | 16721.8 | 11333.6 | 5673.9 | 1009.4 | 561.5 | 763.4 | 943.5 |
| 72.5° | 11045.7 | 11970.3 | 12714.8 | 13070.2 | 13228.5 | 8663.0 | 4131.8 | 762.6 | 460.3 | 643.2 | 858.7 |
| 75° | 7820.5 | 8514.3 | 8909.9 | 8989.0 | 9013.6 | 5222.3 | 2510.5 | 567.2 | 379.4 | 500.5 | 725.2 |
| 77.5° | 4413.9 | 4711.4 | 4678.9 | 4714.2 | 4420.7 | 2016.0 | 1093.4 | 406.0 | 312.7 | 380.3 | 562.4 |
| 80° | 1723.3 | 1776.8 | 1669.0 | 1635.7 | 1500.2 | 750.1 | 482.4 | 283.0 | 249.7 | 287.8 | 393.6 |
| 82.5° | 759.7 | 784.3 | 761.4 | 767.4 | 734.0 | 387.1 | 288.7 | 205.0 | 190.6 | 210.6 | 261.3 |
| 85° | 418.5 | 426.1 | 424.1 | 436.6 | 418.5 | 154.4 | 137.1 | 125.8 | 133.5 | 143.1 | 167.7 |
| 87.5° | 203.9 | 205.8 | 199.3 | 209.8 | 203.0 | 78.0 | 67.6 | 71.5 | 78.0 | 80.0 | 80.0 |
| 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: P301642

CATALOG NUMBER: GAA-AF-04-LED-U-T2R-7050-800

CANDELA DISTRIBUTION (continued):

| | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|
| 0° | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 | 1636.5 |
| 2.5° | 1546.1 | 1538.4 | 1539.3 | 1537.3 | 1533.6 | 1533.6 |
| 5° | 1532.8 | 1525.1 | 1525.1 | 1523.1 | 1518.3 | 1519.2 |
| 7.5° | 1546.1 | 1533.6 | 1528.8 | 1522.0 | 1515.5 | 1515.5 |
| 10° | 1561.3 | 1539.3 | 1526.0 | 1514.7 | 1505.9 | 1505.9 |
| 12.5° | 1572.6 | 1538.4 | 1516.4 | 1501.1 | 1492.6 | 1492.6 |
| 15° | 1576.6 | 1531.6 | 1501.1 | 1483.0 | 1475.4 | 1474.5 |
| 17.5° | 1564.1 | 1505.9 | 1468.9 | 1447.9 | 1438.3 | 1435.5 |
| 20° | 1526.0 | 1459.2 | 1414.6 | 1390.5 | 1377.3 | 1372.4 |
| 22.5° | 1468.9 | 1392.5 | 1340.2 | 1315.3 | 1298.1 | 1295.3 |
| 25° | 1388.8 | 1306.8 | 1255.4 | 1231.4 | 1222.0 | 1218.9 |
| 27.5° | 1295.3 | 1218.9 | 1175.1 | 1159.8 | 1151.3 | 1150.5 |
| 30° | 1206.8 | 1141.7 | 1109.5 | 1097.9 | 1087.4 | 1085.7 |
| 32.5° | 1123.6 | 1082.6 | 1070.5 | 1054.1 | 1029.5 | 1026.6 |
| 35° | 1064.5 | 1060.9 | 1052.4 | 1015.9 | 985.7 | 976.9 |
| 37.5° | 1028.3 | 1063.7 | 1019.9 | 948.3 | 926.6 | 924.6 |
| 40° | 1007.4 | 1034.3 | 958.8 | 934.2 | 935.9 | 934.2 |
| 42.5° | 959.9 | 987.3 | 960.8 | 949.5 | 956.8 | 958.8 |
| 45° | 912.1 | 942.7 | 975.2 | 967.6 | 985.7 | 985.7 |
| 47.5° | 885.6 | 931.1 | 974.1 | 974.1 | 1000.9 | 1010.2 |
| 50° | 855.0 | 921.7 | 958.8 | 972.1 | 993.3 | 985.7 |
| 52.5° | 853.0 | 905.4 | 937.0 | 960.8 | 970.4 | 961.6 |
| 55° | 855.9 | 892.1 | 915.0 | 941.8 | 953.1 | 954.0 |
| 57.5° | 859.8 | 884.4 | 899.7 | 912.1 | 946.3 | 946.3 |
| 60° | 869.2 | 877.9 | 886.4 | 893.2 | 937.9 | 938.7 |
| 62.5° | 884.4 | 871.1 | 869.2 | 875.9 | 933.1 | 929.4 |
| 65° | 908.5 | 861.5 | 847.4 | 853.9 | 928.3 | 916.9 |
| 67.5° | 940.7 | 847.4 | 819.7 | 824.5 | 924.6 | 899.7 |
| 70° | 970.4 | 824.5 | 785.5 | 780.7 | 888.4 | 844.6 |
| 72.5° | 973.2 | 797.9 | 737.7 | 723.5 | 772.2 | 730.0 |
| 75° | 925.4 | 779.5 | 685.4 | 643.2 | 637.6 | 631.9 |
| 77.5° | 834.1 | 769.1 | 624.3 | 558.4 | 547.1 | 550.8 |
| 80° | 697.8 | 730.0 | 550.8 | 472.8 | 534.7 | 528.2 |
| 82.5° | 521.4 | 644.4 | 467.9 | 418.5 | 417.3 | 369.0 |
| 85° | 289.8 | 502.4 | 381.1 | 313.6 | 218.3 | 211.5 |
| 87.5° | 81.1 | 279.4 | 266.9 | 177.3 | 121.0 | 125.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)