

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: P300864

Luminaire Tested: **GAA-AF-05-LED-U-SL4-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7027
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24475.6 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 279
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

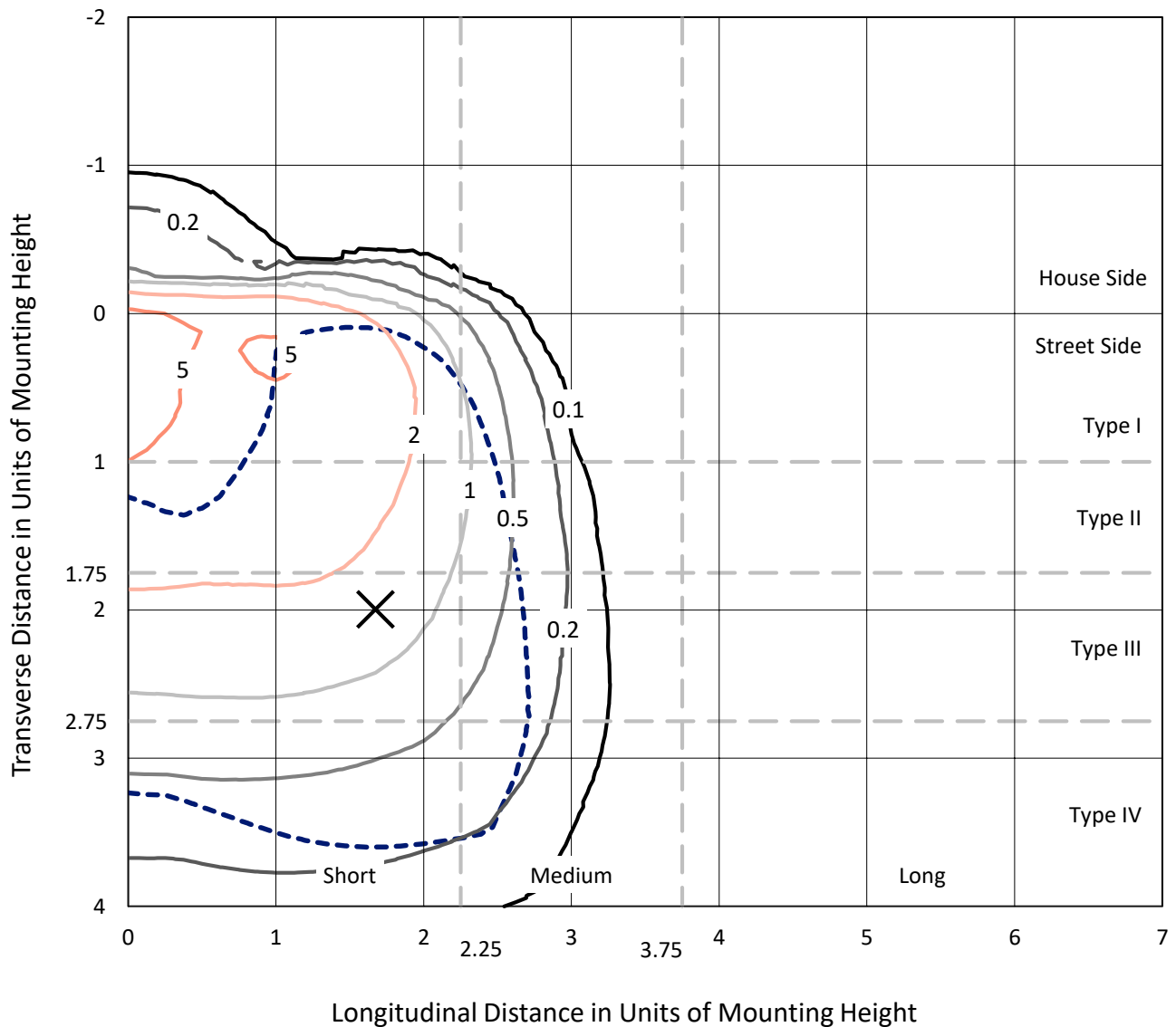


REPORT NUMBER: P300864

CATALOG NUMBER: GAA-AF-05-LED-U-SL4-7027

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

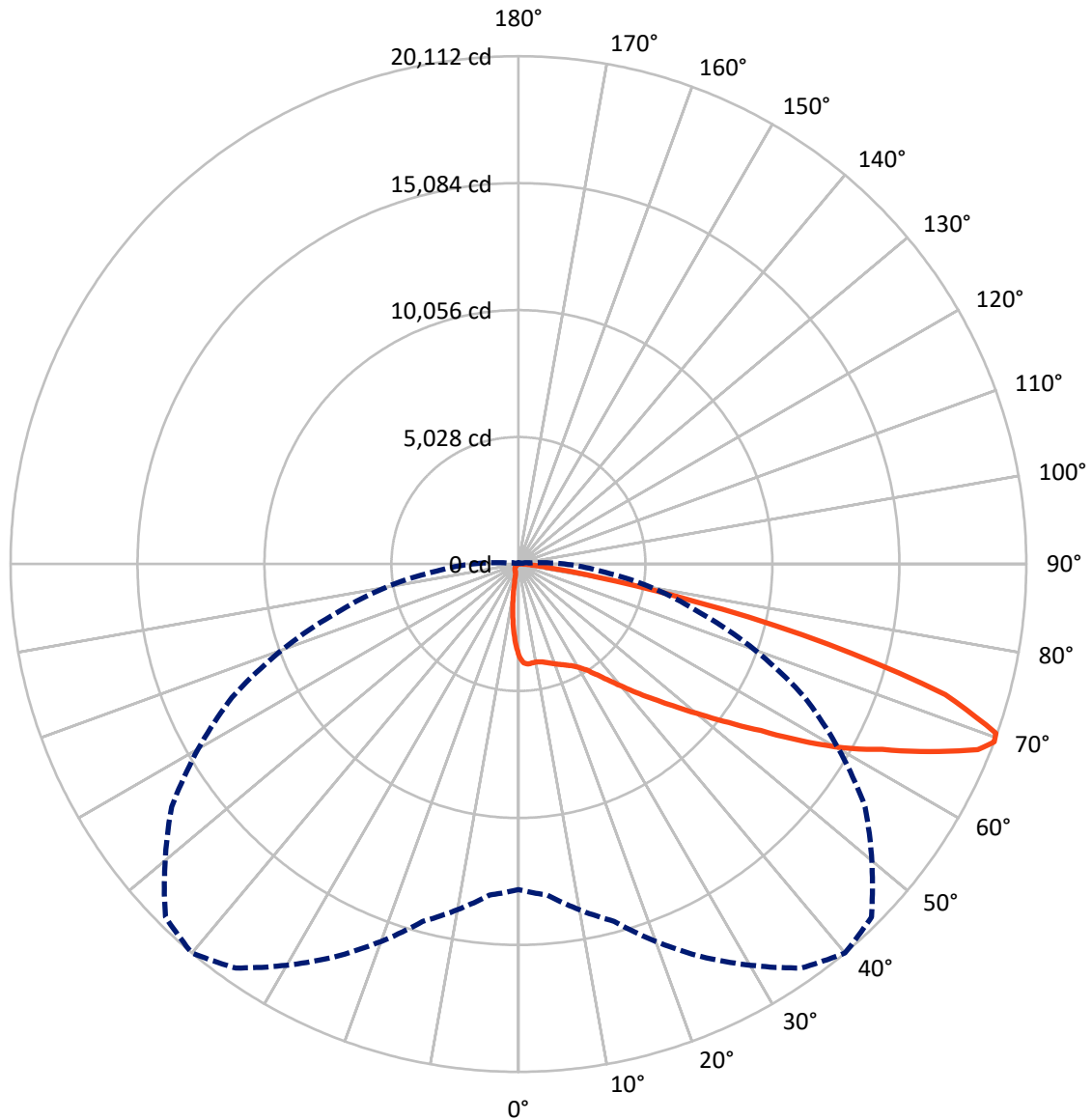


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P300864

CATALOG NUMBER: GAA-AF-05-LED-U-SL4-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P300864

CATALOG NUMBER: GAA-AF-05-LED-U-SL4-7027

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1432.0 | 0.0 | 1432.0 |
| | % Fixture | 5.9 | 0.0 | 5.9 |
| Street Side | Lumens | 23043.6 | 0.0 | 23043.6 |
| | % Fixture | 94.1 | 0.0 | 94.1 |
| Total | Lumens | 24475.6 | 0.0 | 24475.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 296.5 | 1.2 |
| 10°-20° | 729.1 | 3.0 |
| 20°-30° | 1228.1 | 5.0 |
| 30°-40° | 2010.4 | 8.2 |
| 40°-50° | 3481.0 | 14.2 |
| 50°-60° | 5483.0 | 22.4 |
| 60°-70° | 7160.5 | 29.3 |
| 70°-80° | 3688.0 | 15.1 |
| 80°-90° | 398.9 | 1.6 |
| 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° | 24475.6 | 100.0 |
| 0°-180° | 24475.6 | 100.0 |



REPORT NUMBER: P300864

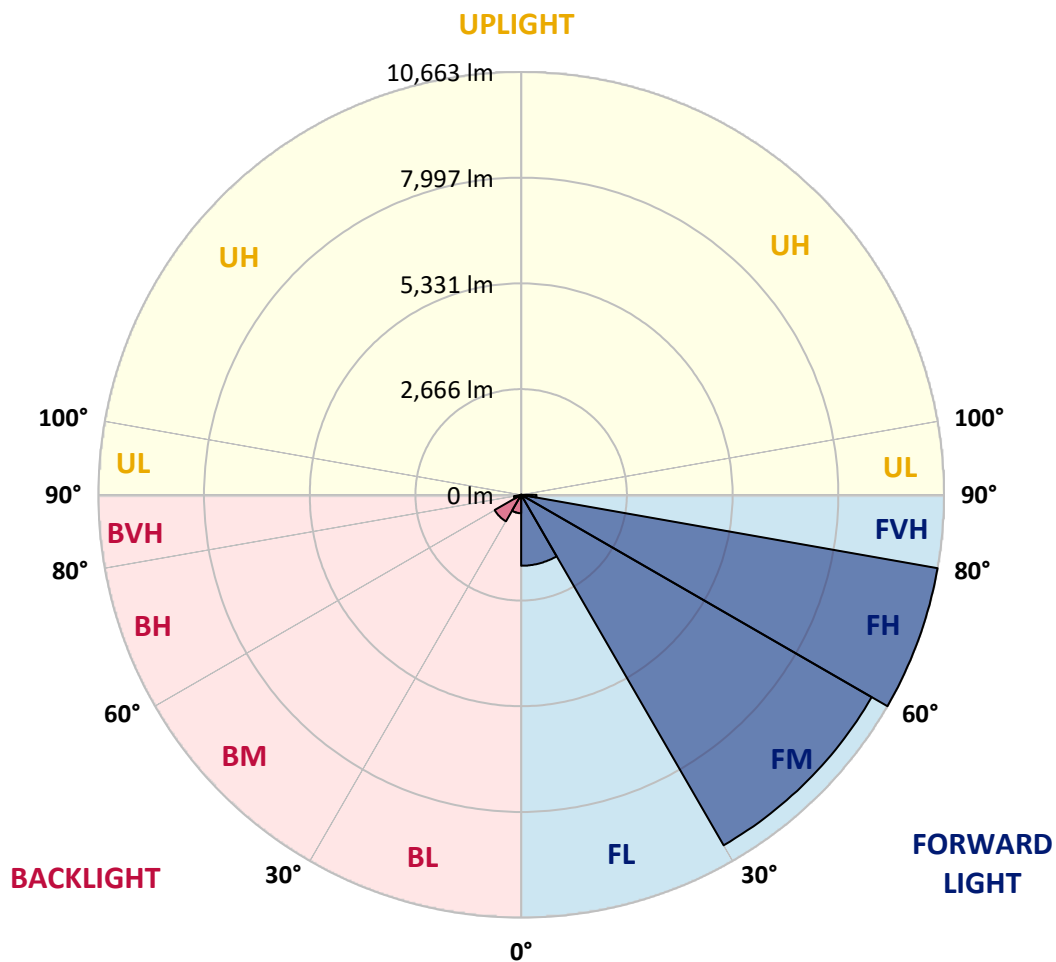
CATALOG NUMBER: GAA-AF-05-LED-U-SL4-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1789.9 | 7.3 | | | |
| FM | (30°-60°) | 10204.8 | 41.7 | | | |
| FH | (60°-80°) | 10662.6 | 43.6 | | | G4/12000 |
| FVH | (80°-90°) | 386.4 | 1.6 | | | G3/500 |
| BL | (0°-30°) | 463.9 | 1.9 | B1/500 | | |
| BM | (30°-60°) | 769.6 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 185.9 | 0.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 12.5 | 0.1 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G4

Type IV Short





REPORT NUMBER: P300864

CATALOG NUMBER: GAA-AF-05-LED-U-SL4-7027

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3656.8 | 3656.8 | 3656.8 | 3656.8 | 3656.8 | 3656.8 | 3656.8 | 3656.8 | 3656.8 | 3656.8 | 3656.8 |
| 2.5° | 4015.2 | 3993.3 | 3980.2 | 3962.7 | 3940.9 | 3921.9 | 3914.6 | 3860.7 | 3809.8 | 3739.8 | 3659.7 |
| 5° | 4089.5 | 4082.2 | 4058.9 | 4035.6 | 4009.3 | 3980.2 | 3964.2 | 3900.1 | 3827.2 | 3725.3 | 3585.4 |
| 7.5° | 4096.8 | 4088.0 | 4058.9 | 4026.8 | 3990.4 | 3955.4 | 3927.8 | 3863.7 | 3796.6 | 3693.2 | 3522.7 |
| 10° | 4085.1 | 4074.9 | 4053.0 | 4018.1 | 3972.9 | 3939.4 | 3911.7 | 3850.5 | 3793.7 | 3700.5 | 3511.1 |
| 12.5° | 4072.0 | 4061.8 | 4051.6 | 4034.1 | 3994.8 | 3971.5 | 3948.2 | 3889.9 | 3838.9 | 3760.2 | 3553.3 |
| 15° | 4085.1 | 4079.3 | 4090.9 | 4083.6 | 4061.8 | 4041.4 | 4018.1 | 3965.6 | 3919.0 | 3853.5 | 3630.6 |
| 17.5° | 4140.5 | 4140.5 | 4176.9 | 4181.3 | 4160.9 | 4131.7 | 4098.2 | 4045.8 | 4006.4 | 3951.1 | 3722.3 |
| 20° | 4270.1 | 4265.8 | 4312.4 | 4321.1 | 4271.6 | 4226.4 | 4176.9 | 4112.8 | 4082.2 | 4047.2 | 3812.7 |
| 22.5° | 4493.0 | 4472.6 | 4500.3 | 4491.6 | 4394.0 | 4324.0 | 4262.8 | 4184.2 | 4168.1 | 4152.1 | 3913.2 |
| 25° | 4782.9 | 4771.3 | 4790.2 | 4704.3 | 4532.4 | 4437.7 | 4364.8 | 4276.0 | 4276.0 | 4292.0 | 4026.8 |
| 27.5° | 5204.0 | 5160.3 | 5096.2 | 4944.7 | 4686.8 | 4565.9 | 4487.2 | 4392.5 | 4417.3 | 4477.0 | 4176.9 |
| 30° | 5635.2 | 5587.1 | 5440.0 | 5206.9 | 4874.7 | 4748.0 | 4656.2 | 4557.1 | 4615.4 | 4724.7 | 4377.9 |
| 32.5° | 6060.6 | 6006.7 | 5798.4 | 5504.1 | 5144.3 | 5017.5 | 4928.6 | 4819.4 | 4917.0 | 5100.5 | 4672.2 |
| 35° | 6472.9 | 6424.9 | 6184.5 | 5837.7 | 5502.6 | 5397.8 | 5316.2 | 5221.5 | 5346.8 | 5603.2 | 5087.4 |
| 37.5° | 6936.2 | 6883.8 | 6590.9 | 6215.1 | 5938.3 | 5862.5 | 5802.8 | 5708.1 | 5926.6 | 6302.5 | 5665.8 |
| 40° | 7505.9 | 7417.0 | 7022.2 | 6647.8 | 6442.3 | 6405.9 | 6365.1 | 6352.0 | 6691.5 | 7211.6 | 6436.5 |
| 42.5° | 8158.5 | 8012.9 | 7473.8 | 7103.8 | 6996.0 | 7022.2 | 7012.0 | 7070.3 | 7648.6 | 8342.1 | 7374.7 |
| 45° | 8811.2 | 8623.3 | 7976.4 | 7590.4 | 7604.9 | 7696.7 | 7753.5 | 7986.6 | 8847.7 | 9638.7 | 8384.4 |
| 47.5° | 9364.8 | 9179.8 | 8458.7 | 8116.3 | 8291.1 | 8471.8 | 8626.2 | 9067.6 | 10080.2 | 10915.0 | 9169.6 |
| 50° | 9838.3 | 9663.5 | 8970.0 | 8694.7 | 9088.0 | 9379.4 | 9630.0 | 10284.1 | 11405.9 | 11886.7 | 9720.3 |
| 52.5° | 10225.9 | 10109.3 | 9500.3 | 9357.6 | 9998.6 | 10425.5 | 10792.6 | 11576.4 | 12580.2 | 12676.3 | 10148.7 |
| 55° | 10603.2 | 10520.2 | 10070.0 | 10145.7 | 11067.9 | 11649.2 | 12114.0 | 12947.3 | 13591.3 | 13334.9 | 10559.5 |
| 57.5° | 11037.3 | 10961.6 | 10719.7 | 11145.2 | 12473.8 | 13205.2 | 13712.2 | 14162.4 | 14481.4 | 14007.9 | 10947.0 |
| 60° | 11480.2 | 11436.5 | 11442.4 | 12255.3 | 14088.1 | 14790.3 | 15070.0 | 15186.6 | 15355.6 | 14641.7 | 10968.9 |
| 62.5° | 11902.7 | 11985.8 | 12268.4 | 13490.7 | 15633.8 | 16172.9 | 16314.2 | 16429.3 | 16231.1 | 14742.2 | 10134.1 |
| 65° | 12618.1 | 12753.6 | 13428.1 | 15144.3 | 17334.0 | 17910.9 | 18056.6 | 17661.8 | 16369.5 | 13442.7 | 8243.0 |
| 67.5° | 12967.7 | 13215.4 | 14418.8 | 16685.7 | 18983.2 | 19624.2 | 19570.3 | 17741.9 | 14689.8 | 10250.6 | 5289.9 |
| 69° | 12894.9 | 13158.6 | 14647.5 | 17157.7 | 19531.0 | 20112.3 | 19769.9 | 16761.4 | 12514.6 | 7425.7 | 3247.4 |
| 70° | 12606.4 | 12873.0 | 14529.5 | 17140.2 | 19600.9 | 20061.3 | 19399.9 | 15550.8 | 10581.3 | 5429.8 | 2030.9 |
| 72.5° | 10527.4 | 10757.6 | 12899.2 | 15492.5 | 18056.6 | 17682.2 | 16229.7 | 10773.7 | 5155.9 | 1478.7 | 457.5 |
| 75° | 6480.2 | 6608.4 | 9255.6 | 11671.1 | 13637.9 | 12676.3 | 10813.0 | 5359.9 | 1537.0 | 418.1 | 253.5 |
| 77.5° | 3423.7 | 3482.0 | 5067.0 | 6879.4 | 8645.1 | 7153.3 | 5542.0 | 2090.6 | 708.0 | 262.2 | 183.6 |
| 80° | 2023.6 | 2067.3 | 2728.7 | 3145.4 | 3741.3 | 3125.0 | 2215.9 | 1283.5 | 507.0 | 164.6 | 163.2 |
| 82.5° | 1158.2 | 1185.9 | 1978.4 | 1748.3 | 1474.4 | 1258.7 | 1102.9 | 1216.5 | 304.5 | 110.7 | 169.0 |
| 85° | 425.4 | 431.2 | 1113.1 | 1330.1 | 877.0 | 521.6 | 547.8 | 1008.2 | 81.6 | 69.9 | 132.6 |
| 87.5° | 198.1 | 193.8 | 572.6 | 814.4 | 512.8 | 330.7 | 426.9 | 221.4 | 32.1 | 45.2 | 36.4 |
| 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: P300864

CATALOG NUMBER: GAA-AF-05-LED-U-SL4-7027

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3656.8 | 3656.8 | 3656.8 | 3656.8 | 3656.8 | 3656.8 | 3656.8 | 3656.8 | 3656.8 | 3656.8 | 3656.8 |
| 2.5° | 3613.1 | 3559.2 | 3461.6 | 3361.0 | 3259.0 | 3180.4 | 3103.2 | 3042.0 | 3021.6 | 2983.7 | 2986.6 |
| 5° | 3502.3 | 3403.3 | 3199.3 | 2992.4 | 2776.8 | 2599.1 | 2431.5 | 2296.0 | 2230.5 | 2163.5 | 2163.5 |
| 7.5° | 3406.2 | 3262.0 | 2942.9 | 2606.4 | 2258.2 | 1965.3 | 1701.6 | 1503.5 | 1394.2 | 1306.8 | 1305.4 |
| 10° | 3369.8 | 3174.5 | 2728.7 | 2246.5 | 1761.4 | 1362.2 | 1049.0 | 847.9 | 744.5 | 677.5 | 674.5 |
| 12.5° | 3385.8 | 3144.0 | 2564.1 | 1914.3 | 1305.4 | 875.6 | 607.5 | 477.9 | 434.2 | 413.8 | 413.8 |
| 15° | 3432.4 | 3135.2 | 2399.5 | 1589.5 | 922.2 | 547.8 | 403.6 | 368.6 | 365.7 | 365.7 | 365.7 |
| 17.5° | 3489.2 | 3138.1 | 2230.5 | 1273.3 | 627.9 | 391.9 | 348.2 | 343.8 | 346.7 | 346.7 | 346.7 |
| 20° | 3547.5 | 3139.6 | 2048.4 | 980.5 | 442.9 | 340.9 | 327.8 | 326.3 | 329.3 | 329.3 | 330.7 |
| 22.5° | 3618.9 | 3146.9 | 1866.3 | 732.8 | 365.7 | 322.0 | 311.8 | 311.8 | 313.2 | 313.2 | 311.8 |
| 25° | 3700.5 | 3161.4 | 1676.9 | 543.4 | 333.6 | 308.9 | 300.1 | 298.7 | 300.1 | 298.7 | 297.2 |
| 27.5° | 3802.5 | 3181.8 | 1465.6 | 425.4 | 319.1 | 295.7 | 288.5 | 288.5 | 287.0 | 285.5 | 284.1 |
| 30° | 3930.7 | 3205.1 | 1228.2 | 361.3 | 304.5 | 284.1 | 276.8 | 275.4 | 273.9 | 271.0 | 271.0 |
| 32.5° | 4125.9 | 3256.1 | 993.6 | 327.8 | 288.5 | 268.1 | 262.2 | 262.2 | 259.3 | 256.4 | 255.0 |
| 35° | 4426.0 | 3356.7 | 783.8 | 307.4 | 271.0 | 250.6 | 243.3 | 243.3 | 240.4 | 238.9 | 237.5 |
| 37.5° | 4841.2 | 3509.6 | 609.0 | 288.5 | 253.5 | 231.6 | 224.4 | 222.9 | 220.0 | 217.1 | 215.6 |
| 40° | 5393.4 | 3699.0 | 479.3 | 271.0 | 236.0 | 212.7 | 206.9 | 204.0 | 198.1 | 193.8 | 193.8 |
| 42.5° | 6086.9 | 3914.6 | 389.0 | 252.0 | 215.6 | 195.2 | 190.9 | 186.5 | 176.3 | 171.9 | 170.5 |
| 45° | 6812.4 | 4108.4 | 329.3 | 230.2 | 195.2 | 177.7 | 174.8 | 167.5 | 154.4 | 150.1 | 150.1 |
| 47.5° | 7335.4 | 4153.6 | 289.9 | 209.8 | 176.3 | 158.8 | 157.3 | 144.2 | 132.6 | 129.7 | 128.2 |
| 50° | 7661.8 | 4064.7 | 257.9 | 189.4 | 158.8 | 141.3 | 136.9 | 120.9 | 113.6 | 110.7 | 109.3 |
| 52.5° | 7881.7 | 3905.9 | 231.6 | 171.9 | 142.8 | 125.3 | 115.1 | 103.4 | 97.6 | 94.7 | 94.7 |
| 55° | 8058.0 | 3681.5 | 205.4 | 155.9 | 129.7 | 112.2 | 97.6 | 88.9 | 83.0 | 80.1 | 80.1 |
| 57.5° | 8107.6 | 3377.1 | 179.2 | 142.8 | 116.6 | 99.1 | 83.0 | 77.2 | 69.9 | 68.5 | 68.5 |
| 60° | 7747.7 | 2827.8 | 158.8 | 126.7 | 104.9 | 86.0 | 72.8 | 65.6 | 58.3 | 56.8 | 55.4 |
| 62.5° | 6799.3 | 2188.2 | 139.9 | 112.2 | 91.8 | 74.3 | 62.6 | 53.9 | 48.1 | 48.1 | 48.1 |
| 65° | 5186.5 | 1467.1 | 122.4 | 97.6 | 80.1 | 62.6 | 53.9 | 43.7 | 40.8 | 40.8 | 42.2 |
| 67.5° | 3104.6 | 798.4 | 104.9 | 83.0 | 68.5 | 52.4 | 45.2 | 37.9 | 36.4 | 37.9 | 37.9 |
| 69° | 1819.6 | 469.1 | 94.7 | 74.3 | 59.7 | 46.6 | 39.3 | 33.5 | 36.4 | 37.9 | 37.9 |
| 70° | 1123.3 | 316.1 | 87.4 | 67.0 | 53.9 | 42.2 | 36.4 | 32.1 | 35.0 | 36.4 | 36.4 |
| 72.5° | 313.2 | 163.2 | 69.9 | 52.4 | 43.7 | 35.0 | 29.1 | 29.1 | 33.5 | 35.0 | 35.0 |
| 75° | 204.0 | 120.9 | 53.9 | 39.3 | 33.5 | 27.7 | 24.8 | 27.7 | 32.1 | 33.5 | 33.5 |
| 77.5° | 169.0 | 99.1 | 43.7 | 32.1 | 27.7 | 26.2 | 23.3 | 24.8 | 29.1 | 30.6 | 30.6 |
| 80° | 154.4 | 69.9 | 35.0 | 29.1 | 24.8 | 23.3 | 21.9 | 20.4 | 26.2 | 27.7 | 27.7 |
| 82.5° | 147.1 | 55.4 | 30.6 | 26.2 | 23.3 | 20.4 | 18.9 | 20.4 | 23.3 | 24.8 | 26.2 |
| 85° | 91.8 | 36.4 | 27.7 | 24.8 | 20.4 | 18.9 | 18.9 | 18.9 | 21.9 | 23.3 | 23.3 |
| 87.5° | 33.5 | 29.1 | 24.8 | 20.4 | 17.5 | 17.5 | 17.5 | 17.5 | 18.9 | 21.9 | 21.9 |
| 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)