

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: P300692

Luminaire Tested: **GAA-AF-07-LED-U-RW-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-07-LED-U-RW-7030-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27330.4 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B4 - U0 - G2

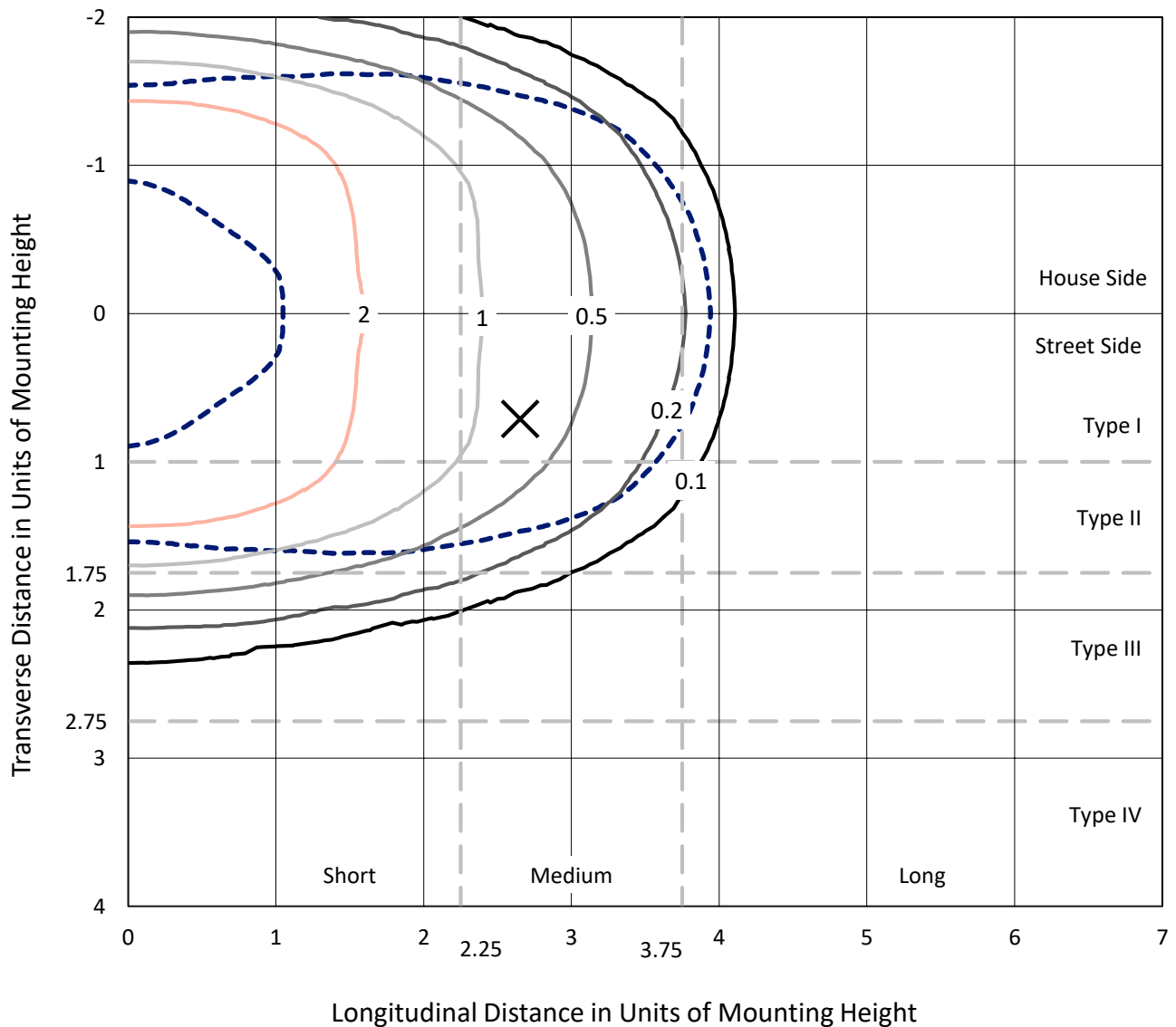
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

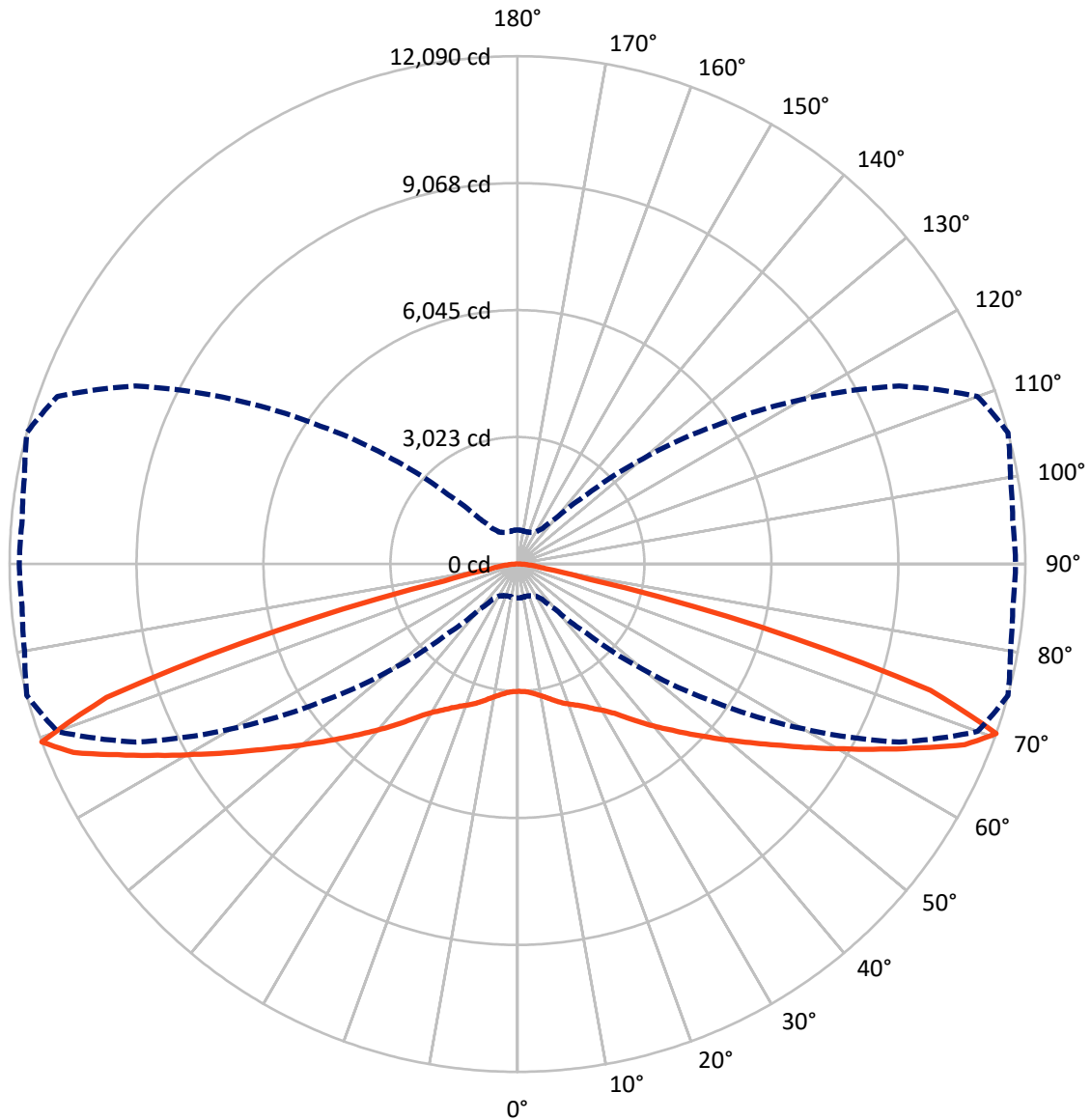


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13665.2 | 0.0 | 13665.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13665.2 | 0.0 | 13665.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 27330.4 | 0.0 | 27330.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 290.7 | 1.1 |
| 10°-20° | 903.4 | 3.3 |
| 20°-30° | 1700.4 | 6.2 |
| 30°-40° | 3011.0 | 11.0 |
| 40°-50° | 5035.4 | 18.4 |
| 50°-60° | 7016.8 | 25.7 |
| 60°-70° | 6506.9 | 23.8 |
| 70°-80° | 2593.2 | 9.5 |
| 80°-90° | 272.6 | 1.0 |
| 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° | 27330.4 | 100.0 |
| 0°-180° | 27330.4 | 100.0 |



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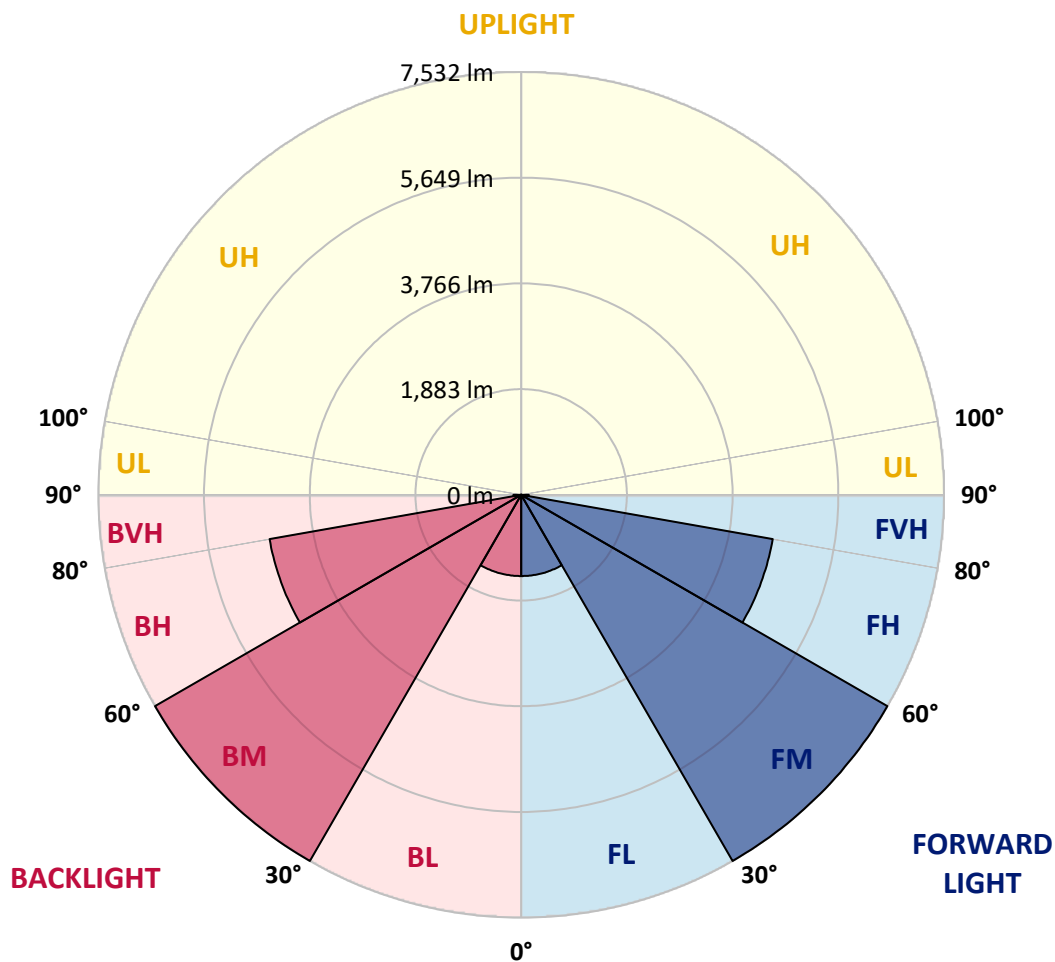
CATALOG NUMBER: GAA-AF-07-LED-U-RW-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1447.3 | 5.3 | | | |
| FM (30°-60°) | 7531.6 | 27.6 | | | |
| FH (60°-80°) | 4550.1 | 16.6 | | | G2/5000 |
| FVH (80°-90°) | 136.3 | 0.5 | | | G2/225 |
| BL (0°-30°) | 1447.3 | 5.3 | B3/2500 | | |
| BM (30°-60°) | 7531.6 | 27.6 | B4/8500 | | |
| BH (60°-80°) | 4550.1 | 16.6 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 136.3 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3031.6 | 3031.6 | 3031.6 | 3031.6 | 3031.6 | 3031.6 | 3031.6 | 3031.6 | 3031.6 | 3031.6 | 3031.6 |
| 2.5° | 3026.4 | 3023.8 | 3026.4 | 3025.1 | 3027.7 | 3027.7 | 3030.3 | 3035.5 | 3035.5 | 3039.3 | 3038.0 |
| 5° | 2996.7 | 2995.4 | 2999.3 | 3003.2 | 3007.0 | 3014.8 | 3022.5 | 3034.2 | 3043.2 | 3049.7 | 3056.1 |
| 7.5° | 2938.6 | 2938.6 | 2943.7 | 2952.8 | 2961.8 | 2978.6 | 2996.7 | 3020.0 | 3043.2 | 3062.6 | 3079.4 |
| 10° | 2890.8 | 2893.4 | 2899.8 | 2915.3 | 2930.8 | 2956.7 | 2981.2 | 3014.8 | 3047.1 | 3079.4 | 3105.2 |
| 12.5° | 2862.4 | 2866.2 | 2877.9 | 2901.1 | 2927.0 | 2961.8 | 2999.3 | 3041.9 | 3078.1 | 3116.8 | 3142.7 |
| 15° | 2871.4 | 2874.0 | 2890.8 | 2919.2 | 2952.8 | 2996.7 | 3047.1 | 3097.5 | 3140.1 | 3181.4 | 3216.3 |
| 17.5° | 2921.8 | 2925.7 | 2945.0 | 2977.3 | 3012.2 | 3063.9 | 3118.1 | 3175.0 | 3227.9 | 3274.4 | 3317.0 |
| 20° | 3012.2 | 3016.1 | 3040.6 | 3075.5 | 3116.8 | 3169.8 | 3224.0 | 3283.5 | 3342.9 | 3392.0 | 3439.8 |
| 22.5° | 3140.1 | 3146.5 | 3169.8 | 3204.7 | 3251.2 | 3308.0 | 3372.6 | 3435.9 | 3492.7 | 3537.9 | 3580.5 |
| 25° | 3308.0 | 3322.2 | 3344.2 | 3382.9 | 3432.0 | 3483.7 | 3553.4 | 3618.0 | 3672.3 | 3714.9 | 3745.9 |
| 27.5° | 3545.7 | 3565.0 | 3581.8 | 3619.3 | 3667.1 | 3716.2 | 3785.9 | 3842.8 | 3894.4 | 3935.8 | 3959.0 |
| 30° | 3860.8 | 3880.2 | 3897.0 | 3933.2 | 3977.1 | 4023.6 | 4089.5 | 4139.8 | 4172.1 | 4204.4 | 4203.1 |
| 32.5° | 4243.2 | 4263.8 | 4270.3 | 4309.1 | 4354.3 | 4404.6 | 4464.1 | 4492.5 | 4518.3 | 4522.2 | 4498.9 |
| 35° | 4670.7 | 4681.1 | 4706.9 | 4758.6 | 4810.2 | 4851.6 | 4908.4 | 4922.6 | 4922.6 | 4903.2 | 4851.6 |
| 37.5° | 5139.6 | 5146.1 | 5182.2 | 5240.4 | 5293.3 | 5335.9 | 5374.7 | 5403.1 | 5388.9 | 5347.6 | 5261.0 |
| 40° | 5653.7 | 5665.3 | 5717.0 | 5768.7 | 5828.1 | 5868.1 | 5909.4 | 5914.6 | 5900.4 | 5839.7 | 5722.2 |
| 42.5° | 6144.5 | 6154.9 | 6206.5 | 6287.9 | 6365.4 | 6421.0 | 6459.7 | 6467.5 | 6422.2 | 6366.7 | 6220.7 |
| 45° | 6566.9 | 6594.0 | 6661.2 | 6756.8 | 6869.2 | 6948.0 | 7000.9 | 7022.9 | 6982.8 | 6910.5 | 6741.3 |
| 47.5° | 6901.5 | 6928.6 | 7024.2 | 7137.8 | 7277.3 | 7405.2 | 7493.1 | 7539.6 | 7529.2 | 7475.0 | 7290.3 |
| 50° | 7146.9 | 7172.7 | 7276.0 | 7415.5 | 7578.3 | 7737.2 | 7887.0 | 7998.1 | 8036.8 | 8012.3 | 7843.1 |
| 52.5° | 7175.3 | 7217.9 | 7339.3 | 7526.6 | 7738.5 | 7955.5 | 8168.6 | 8357.2 | 8485.1 | 8504.4 | 8379.1 |
| 55° | 6778.8 | 6821.4 | 6989.3 | 7267.0 | 7582.2 | 7936.1 | 8277.1 | 8594.9 | 8846.7 | 8975.9 | 8910.0 |
| 57.5° | 5843.6 | 5919.8 | 6096.7 | 6422.2 | 6886.0 | 7415.5 | 7959.3 | 8523.8 | 9036.6 | 9378.9 | 9444.8 |
| 60° | 4478.3 | 4568.7 | 4746.9 | 5093.1 | 5609.8 | 6241.4 | 6967.3 | 7801.8 | 8707.2 | 9477.1 | 9936.9 |
| 62.5° | 2872.7 | 2958.0 | 3145.2 | 3446.2 | 3867.3 | 4551.9 | 5330.8 | 6321.5 | 7538.3 | 8753.7 | 9849.1 |
| 65° | 1476.4 | 1522.9 | 1621.1 | 1803.2 | 2131.3 | 2642.8 | 3341.6 | 4329.7 | 5720.9 | 7220.5 | 8804.1 |
| 67.5° | 935.2 | 944.2 | 966.2 | 992.0 | 1076.0 | 1252.9 | 1578.4 | 2194.6 | 3339.0 | 4903.2 | 6756.8 |
| 70° | 808.6 | 808.6 | 798.3 | 794.4 | 804.7 | 829.3 | 879.6 | 1023.0 | 1409.2 | 2327.6 | 3897.0 |
| 72.5° | 740.1 | 732.4 | 714.3 | 700.1 | 697.5 | 697.5 | 707.8 | 729.8 | 791.8 | 948.1 | 1525.5 |
| 75° | 682.0 | 660.0 | 635.5 | 618.7 | 612.3 | 605.8 | 604.5 | 608.4 | 621.3 | 645.8 | 728.5 |
| 77.5° | 611.0 | 582.5 | 554.1 | 537.3 | 529.6 | 520.5 | 512.8 | 503.8 | 497.3 | 505.0 | 541.2 |
| 80° | 525.7 | 493.4 | 471.5 | 461.1 | 453.4 | 440.5 | 423.7 | 408.2 | 394.0 | 391.4 | 413.3 |
| 82.5° | 423.7 | 386.2 | 387.5 | 391.4 | 377.2 | 359.1 | 341.0 | 324.2 | 299.7 | 286.8 | 299.7 |
| 85° | 342.3 | 322.9 | 313.9 | 338.4 | 317.8 | 290.6 | 262.2 | 232.5 | 193.8 | 162.8 | 177.0 |
| 87.5° | 133.0 | 133.0 | 198.9 | 306.1 | 275.1 | 224.8 | 192.5 | 164.0 | 102.0 | 78.8 | 80.1 |
| 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: GAA-AF-07-LED-U-RW-7030-600

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3031.6 | 3031.6 | 3031.6 | 3031.6 | 3031.6 | 3031.6 | 3031.6 | 3031.6 |
| 2.5° | 3036.7 | 3039.3 | 3038.0 | 3036.7 | 3036.7 | 3035.5 | 3036.7 | 3036.7 |
| 5° | 3060.0 | 3066.5 | 3066.5 | 3069.0 | 3069.0 | 3070.3 | 3071.6 | 3070.3 |
| 7.5° | 3094.9 | 3106.5 | 3114.2 | 3123.3 | 3124.6 | 3125.9 | 3128.5 | 3125.9 |
| 10° | 3129.7 | 3153.0 | 3169.8 | 3186.6 | 3194.3 | 3196.9 | 3199.5 | 3199.5 |
| 12.5° | 3173.7 | 3206.0 | 3235.7 | 3265.4 | 3279.6 | 3287.3 | 3287.3 | 3292.5 |
| 15° | 3246.0 | 3278.3 | 3313.2 | 3353.2 | 3377.7 | 3390.7 | 3394.5 | 3394.5 |
| 17.5° | 3348.0 | 3376.5 | 3406.2 | 3444.9 | 3475.9 | 3492.7 | 3496.6 | 3495.3 |
| 20° | 3466.9 | 3494.0 | 3510.8 | 3535.3 | 3562.5 | 3581.8 | 3587.0 | 3587.0 |
| 22.5° | 3602.5 | 3618.0 | 3620.6 | 3628.3 | 3650.3 | 3676.1 | 3687.8 | 3690.3 |
| 25° | 3752.3 | 3756.2 | 3745.9 | 3745.9 | 3760.1 | 3784.6 | 3796.3 | 3797.5 |
| 27.5° | 3946.1 | 3926.7 | 3900.9 | 3891.8 | 3900.9 | 3929.3 | 3943.5 | 3948.7 |
| 30° | 4187.6 | 4141.1 | 4081.7 | 4049.4 | 4044.3 | 4081.7 | 4107.6 | 4111.4 |
| 32.5° | 4464.1 | 4396.9 | 4318.1 | 4252.2 | 4235.4 | 4258.7 | 4289.7 | 4288.4 |
| 35° | 4792.1 | 4712.1 | 4616.5 | 4532.5 | 4493.8 | 4517.0 | 4560.9 | 4566.1 |
| 37.5° | 5170.6 | 5066.0 | 4956.2 | 4850.3 | 4789.6 | 4796.0 | 4842.5 | 4858.0 |
| 40° | 5593.0 | 5457.4 | 5319.1 | 5177.1 | 5090.5 | 5073.7 | 5130.6 | 5139.6 |
| 42.5° | 6045.1 | 5870.7 | 5696.3 | 5520.7 | 5409.6 | 5383.7 | 5449.6 | 5445.7 |
| 45° | 6526.9 | 6304.7 | 6100.6 | 5906.9 | 5775.1 | 5736.4 | 5790.6 | 5790.6 |
| 47.5° | 7044.8 | 6771.0 | 6528.2 | 6308.6 | 6165.2 | 6109.7 | 6161.3 | 6165.2 |
| 50° | 7593.8 | 7303.2 | 7017.7 | 6773.6 | 6601.8 | 6530.7 | 6597.9 | 6608.2 |
| 52.5° | 8140.2 | 7857.3 | 7569.3 | 7290.3 | 7082.3 | 6995.8 | 7073.3 | 7106.8 |
| 55° | 8694.3 | 8416.6 | 8141.5 | 7868.9 | 7622.2 | 7520.2 | 7602.8 | 7645.5 |
| 57.5° | 9279.4 | 9022.4 | 8760.2 | 8485.1 | 8247.4 | 8088.5 | 8176.4 | 8233.2 |
| 60° | 9965.3 | 9745.7 | 9473.2 | 9169.7 | 8929.4 | 8767.9 | 8818.3 | 8868.7 |
| 62.5° | 10507.8 | 10593.1 | 10361.9 | 10010.5 | 9701.8 | 9495.2 | 9544.2 | 9597.2 |
| 65° | 10245.6 | 11120.1 | 11325.5 | 10970.3 | 10542.7 | 10221.1 | 10200.4 | 10227.5 |
| 67.5° | 8563.9 | 10262.4 | 11501.1 | 11839.6 | 11481.8 | 11034.8 | 10952.2 | 10992.2 |
| 70° | 5728.6 | 7844.4 | 10029.9 | 11657.4 | 12090.1 | 11917.1 | 11835.7 | 11860.2 |
| 72.5° | 2751.3 | 4568.7 | 6804.6 | 8968.2 | 10285.7 | 10890.2 | 11083.9 | 11178.2 |
| 75° | 1006.2 | 1813.5 | 3279.6 | 4942.0 | 5966.3 | 6906.6 | 7520.2 | 7770.8 |
| 77.5° | 607.1 | 732.4 | 1047.6 | 1577.1 | 1786.4 | 1999.5 | 1916.9 | 1958.2 |
| 80° | 449.5 | 507.6 | 574.8 | 645.8 | 669.1 | 669.1 | 643.3 | 622.6 |
| 82.5° | 315.2 | 352.6 | 384.9 | 423.7 | 434.0 | 414.6 | 341.0 | 271.3 |
| 85° | 202.8 | 219.6 | 233.8 | 258.3 | 251.9 | 240.3 | 161.5 | 143.4 |
| 87.5° | 93.0 | 105.9 | 111.1 | 122.7 | 117.5 | 112.4 | 80.1 | 67.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)