

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: P299011

Luminaire Tested: **GAA-AF-07-LED-U-SLL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191289)
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-SLL-7027-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Left OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21108.2 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

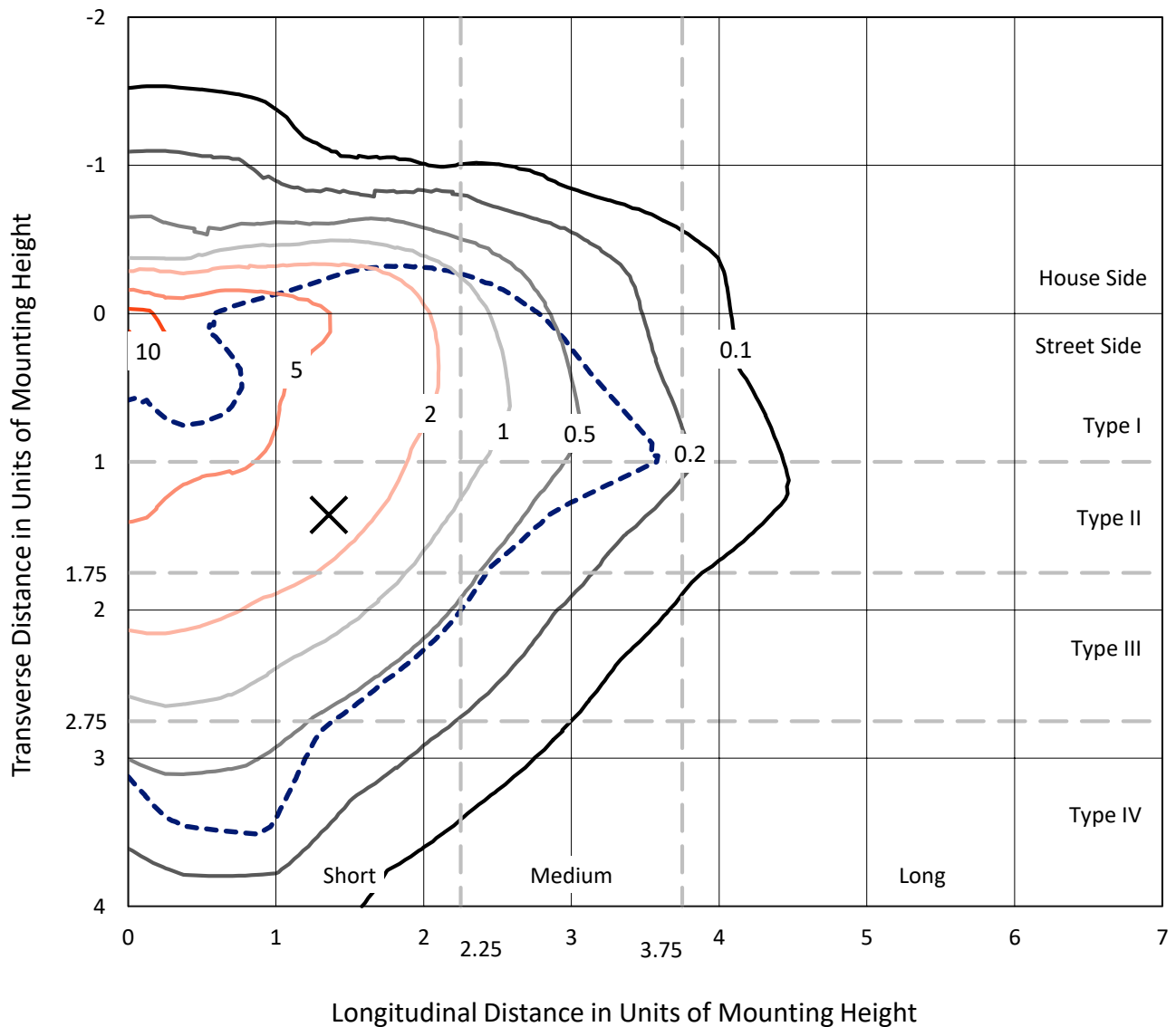
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P299011
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Iso-Footcandle Lines of Horizontal Illumination

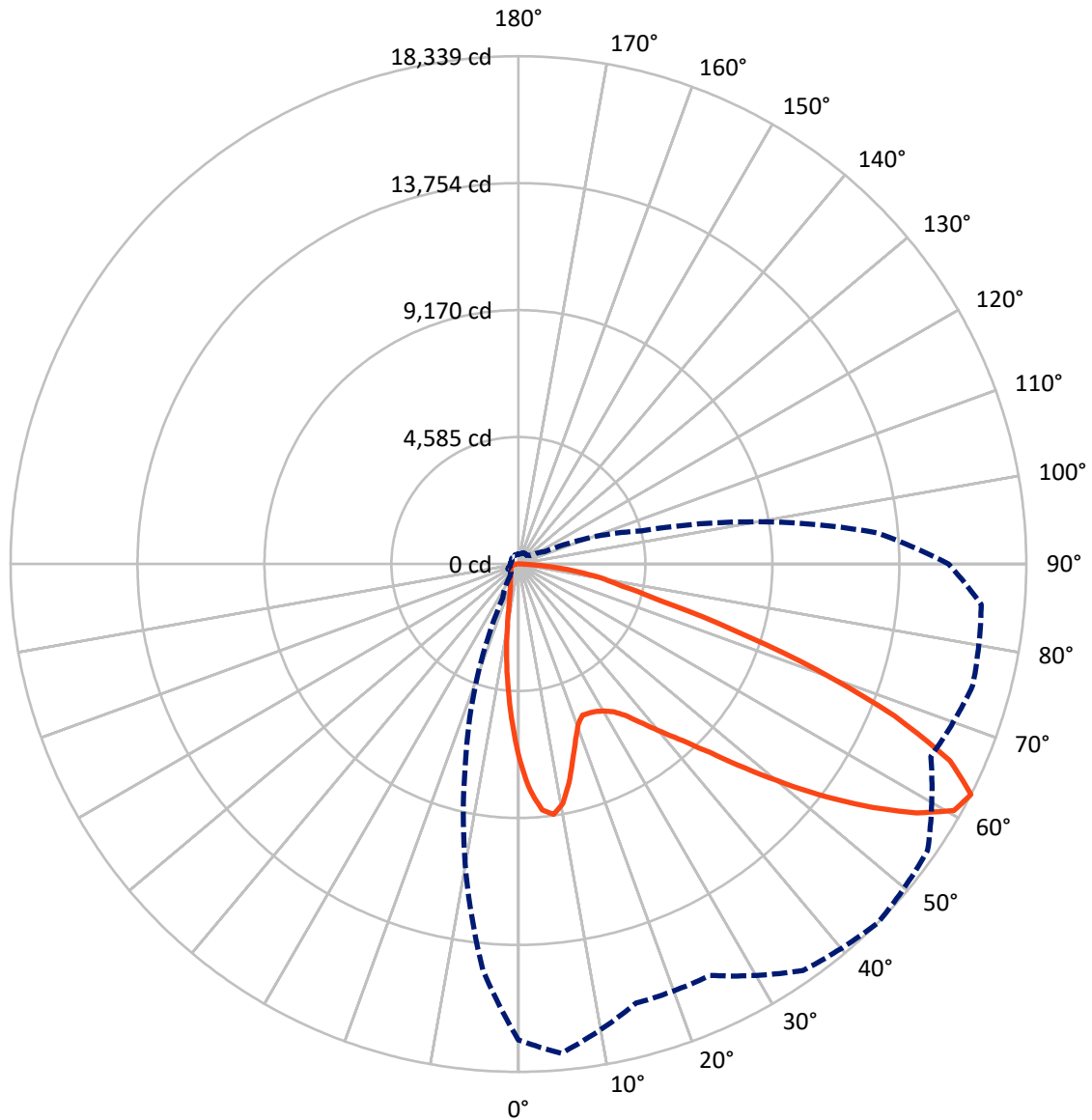
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3493.1 | 0.0 | 3493.1 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 17615.1 | 0.0 | 17615.1 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 21108.2 | 0.0 | 21108.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 519.1 | 2.5 |
| 10°-20° | 952.0 | 4.5 |
| 20°-30° | 1388.0 | 6.6 |
| 30°-40° | 2137.7 | 10.1 |
| 40°-50° | 3146.1 | 14.9 |
| 50°-60° | 4614.6 | 21.9 |
| 60°-70° | 5158.5 | 24.4 |
| 70°-80° | 2525.5 | 12.0 |
| 80°-90° | 666.8 | 3.2 |
| 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° | 21108.2 | 100.0 |
| 0°-180° | 21108.2 | 100.0 |

Coefficient of Utilization



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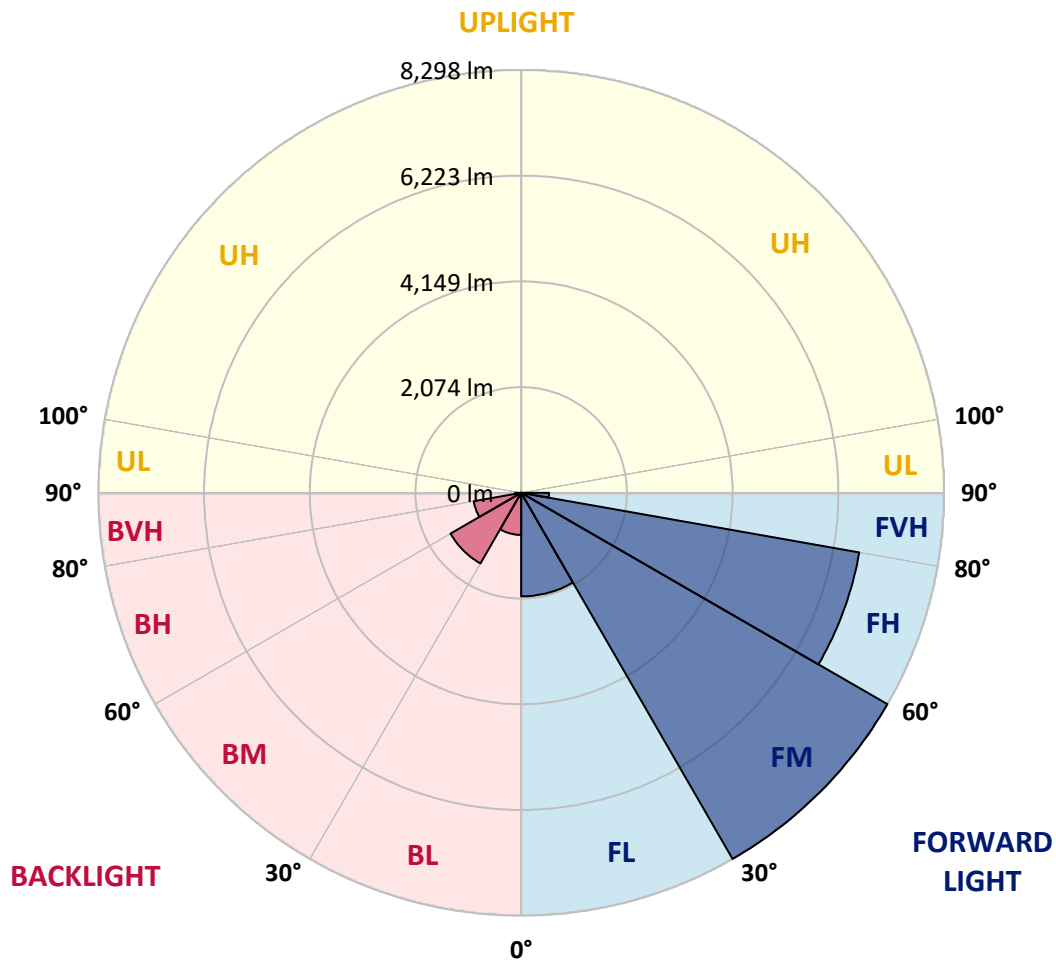
CATALOG NUMBER: GAA-AF-07-LED-U-SLL-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2032.7 | 9.6 | | | |
| FM (30°-60°) | 8297.8 | 39.3 | | | |
| FH (60°-80°) | 6737.0 | 31.9 | | | G3/7500 |
| FVH (80°-90°) | 547.6 | 2.6 | | | G4/750 |
| BL (0°-30°) | 826.4 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 1600.5 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 947.0 | 4.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 119.2 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 |
| 2.5° | 7409.7 | 7528.4 | 7759.3 | 7931.8 | 8142.4 | 8191.0 | 8258.4 | 8192.1 | 8074.9 | 7919.4 | 7868.5 |
| 5° | 6967.9 | 7221.0 | 7781.1 | 8274.6 | 8713.0 | 8917.2 | 8974.5 | 8805.7 | 8465.9 | 8019.2 | 7746.5 |
| 7.5° | 6259.0 | 6618.7 | 7377.3 | 8103.9 | 8749.9 | 9131.9 | 9122.5 | 8731.5 | 8106.2 | 7378.4 | 6941.1 |
| 10° | 5647.2 | 6058.2 | 6928.7 | 7740.8 | 8426.4 | 8796.7 | 8653.5 | 8154.0 | 7407.5 | 6569.7 | 6095.5 |
| 12.5° | 5305.2 | 5707.9 | 6590.8 | 7406.3 | 7979.6 | 8107.3 | 7998.1 | 7508.4 | 6805.1 | 5958.4 | 5542.9 |
| 15° | 5245.7 | 5688.3 | 6456.3 | 7120.0 | 7441.4 | 7330.2 | 7199.9 | 6980.7 | 6483.8 | 5761.0 | 5328.2 |
| 17.5° | 5502.6 | 5989.6 | 6610.8 | 6920.4 | 6865.8 | 6671.8 | 6634.9 | 6659.4 | 6540.0 | 5980.2 | 5481.5 |
| 20° | 5994.5 | 6579.1 | 6978.4 | 6826.6 | 6428.5 | 6161.4 | 6170.8 | 6543.3 | 6897.0 | 6536.2 | 5966.3 |
| 22.5° | 6684.6 | 7352.1 | 7508.4 | 6876.3 | 6243.9 | 5927.1 | 6003.9 | 6607.4 | 7467.0 | 7348.7 | 6620.9 |
| 25° | 7578.1 | 8186.4 | 8073.8 | 7057.1 | 6262.3 | 5956.1 | 6017.5 | 6827.7 | 8139.7 | 8160.8 | 7431.2 |
| 27.5° | 8443.7 | 9008.0 | 8548.0 | 7297.5 | 6339.2 | 6024.7 | 6106.0 | 7174.3 | 8782.7 | 9042.6 | 8357.1 |
| 30° | 9119.1 | 9511.6 | 8736.0 | 7516.7 | 6489.9 | 6158.0 | 6259.0 | 7503.9 | 9075.4 | 9637.8 | 9069.4 |
| 32.5° | 9678.5 | 9960.2 | 9035.5 | 7788.3 | 6767.1 | 6367.8 | 6545.6 | 7904.3 | 9496.5 | 10204.3 | 9766.6 |
| 35° | 10393.0 | 10473.3 | 9408.0 | 8091.1 | 7195.4 | 6733.6 | 6953.9 | 8296.4 | 9898.1 | 10776.1 | 10453.7 |
| 37.5° | 11231.2 | 11127.9 | 9759.5 | 8505.5 | 7749.1 | 7305.4 | 7487.7 | 8727.0 | 10228.4 | 11424.8 | 11155.4 |
| 40° | 12059.5 | 11810.9 | 10200.9 | 9148.1 | 8556.7 | 7979.6 | 8195.5 | 9186.5 | 10537.3 | 12074.5 | 11841.4 |
| 42.5° | 12763.9 | 12395.9 | 10635.6 | 9854.8 | 9308.2 | 8723.6 | 8981.2 | 9649.5 | 10831.9 | 12629.0 | 12436.5 |
| 45° | 13284.8 | 12827.5 | 11050.0 | 10533.5 | 10344.4 | 9712.0 | 9834.0 | 10179.5 | 11150.9 | 13092.3 | 12926.2 |
| 47.5° | 13750.0 | 13261.5 | 11518.6 | 11218.3 | 11250.7 | 10997.6 | 10801.4 | 10796.8 | 11527.2 | 13470.5 | 13389.2 |
| 50° | 14373.1 | 13863.8 | 12022.2 | 11923.5 | 12610.6 | 12442.2 | 12009.4 | 11517.4 | 12002.6 | 13899.9 | 13890.5 |
| 52.5° | 15231.9 | 14817.9 | 12637.3 | 12683.6 | 13880.4 | 13990.4 | 13454.0 | 12383.4 | 12747.3 | 14687.6 | 14632.2 |
| 55° | 16247.4 | 16005.6 | 13475.4 | 13557.5 | 15437.2 | 15516.3 | 14983.3 | 13465.6 | 13843.1 | 15828.6 | 15674.1 |
| 57.5° | 17039.6 | 16988.7 | 14394.2 | 14606.6 | 16600.0 | 16955.2 | 16465.5 | 14719.2 | 15077.5 | 16789.1 | 16401.5 |
| 60° | 17355.3 | 17602.4 | 15372.4 | 15664.7 | 17675.8 | 18068.7 | 17639.6 | 15819.9 | 16171.7 | 17187.3 | 16351.8 |
| 62.5° | 17185.0 | 17736.8 | 16414.3 | 16389.8 | 17915.8 | 18339.1 | 18037.4 | 16432.8 | 16983.1 | 16776.3 | 15524.6 |
| 65° | 16397.0 | 17253.2 | 17018.9 | 16203.0 | 17094.2 | 17128.9 | 17031.3 | 16158.9 | 17174.4 | 15477.9 | 13925.2 |
| 67.5° | 14680.4 | 15912.9 | 16222.6 | 14602.1 | 14877.8 | 14651.8 | 14487.9 | 14659.7 | 16176.2 | 13531.9 | 11703.1 |
| 70° | 11957.4 | 13811.8 | 13959.8 | 11679.0 | 11553.6 | 11401.4 | 11075.6 | 12018.8 | 14207.3 | 11090.7 | 9286.3 |
| 72.5° | 8792.1 | 10741.5 | 11197.3 | 8565.8 | 7985.7 | 8016.5 | 7759.3 | 9057.3 | 11551.3 | 8238.4 | 6933.2 |
| 75° | 6015.2 | 7777.7 | 8760.9 | 5976.8 | 5281.1 | 5293.5 | 5260.7 | 6417.9 | 9200.5 | 5730.8 | 5188.0 |
| 77.5° | 4394.4 | 5556.8 | 6607.4 | 4018.1 | 3900.9 | 3829.0 | 3811.6 | 4490.4 | 7053.7 | 4161.2 | 4028.6 |
| 80° | 3526.1 | 4105.5 | 4438.1 | 2784.8 | 2994.6 | 2989.0 | 2892.5 | 3087.7 | 4606.4 | 3043.6 | 3013.1 |
| 82.5° | 2446.2 | 3155.1 | 3595.8 | 2182.5 | 2021.3 | 1987.4 | 2011.1 | 2299.6 | 3256.0 | 2080.4 | 1978.3 |
| 85° | 1290.5 | 2095.5 | 3561.2 | 1934.3 | 1199.7 | 957.1 | 1190.7 | 1883.0 | 2821.0 | 1102.5 | 965.1 |
| 87.5° | 165.0 | 605.7 | 2357.7 | 771.8 | 473.5 | 255.0 | 565.4 | 1060.4 | 1811.5 | 224.9 | 196.3 |
| 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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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 |
| 2.5° | 7737.4 | 7583.0 | 7381.1 | 7193.9 | 7000.3 | 6807.4 | 6555.8 | 6397.9 | 6289.1 | 6268.0 | 6222.0 |
| 5° | 7549.5 | 7036.4 | 6648.8 | 6313.6 | 6009.6 | 5579.8 | 5342.1 | 5144.7 | 5039.3 | 5029.1 | 5003.5 |
| 7.5° | 6682.3 | 5974.6 | 5451.3 | 4976.7 | 4546.2 | 4199.3 | 3816.2 | 3638.0 | 3564.5 | 3581.9 | 3599.2 |
| 10° | 5780.6 | 4989.5 | 4388.3 | 3903.2 | 3523.9 | 3231.6 | 2924.2 | 2716.6 | 2572.4 | 2543.4 | 2537.7 |
| 12.5° | 5121.7 | 4253.9 | 3670.4 | 3327.6 | 3034.6 | 2759.2 | 2433.4 | 2188.1 | 2001.7 | 1937.7 | 1895.1 |
| 15° | 4843.0 | 3894.1 | 3282.8 | 2913.6 | 2589.7 | 2240.5 | 1937.7 | 1681.1 | 1509.7 | 1454.0 | 1422.7 |
| 17.5° | 4902.5 | 3794.3 | 3015.7 | 2543.4 | 2129.4 | 1764.8 | 1383.2 | 1163.6 | 1060.4 | 1034.0 | 1034.0 |
| 20° | 5213.7 | 3775.9 | 2795.0 | 2202.5 | 1685.7 | 1263.4 | 950.4 | 824.9 | 791.4 | 788.0 | 797.1 |
| 22.5° | 5649.9 | 3841.0 | 2630.7 | 1906.8 | 1310.1 | 922.5 | 740.2 | 693.8 | 678.8 | 682.5 | 692.7 |
| 25° | 6299.6 | 4060.3 | 2511.3 | 1643.1 | 1028.0 | 755.2 | 659.9 | 632.4 | 625.3 | 634.7 | 647.5 |
| 27.5° | 7069.9 | 4279.5 | 2436.8 | 1444.6 | 867.9 | 690.5 | 627.6 | 598.9 | 603.4 | 615.1 | 626.4 |
| 30° | 7746.5 | 4459.5 | 2319.6 | 1303.3 | 818.2 | 693.8 | 627.6 | 588.4 | 583.9 | 586.1 | 589.5 |
| 32.5° | 8353.7 | 4581.2 | 2182.5 | 1168.5 | 705.5 | 616.3 | 586.1 | 580.5 | 554.5 | 545.1 | 546.6 |
| 35° | 8876.9 | 4581.2 | 2100.4 | 1089.7 | 632.4 | 546.6 | 498.0 | 469.0 | 455.8 | 456.9 | 470.1 |
| 37.5° | 9381.6 | 4489.3 | 2059.7 | 1045.3 | 592.9 | 519.8 | 476.9 | 451.3 | 433.9 | 430.5 | 432.8 |
| 40° | 9826.9 | 4356.0 | 2013.4 | 1026.8 | 562.8 | 503.6 | 463.3 | 441.8 | 423.4 | 417.7 | 418.9 |
| 42.5° | 10184.4 | 4247.8 | 1962.1 | 1002.7 | 543.9 | 491.9 | 453.5 | 435.1 | 414.4 | 408.3 | 407.2 |
| 45° | 10570.8 | 4212.1 | 1895.1 | 953.8 | 553.3 | 493.1 | 451.3 | 431.7 | 410.6 | 403.8 | 401.5 |
| 47.5° | 11080.1 | 4324.7 | 1825.4 | 895.8 | 573.3 | 499.1 | 454.7 | 431.7 | 409.5 | 403.8 | 401.5 |
| 50° | 11721.6 | 4589.1 | 1736.9 | 811.0 | 553.3 | 515.3 | 453.5 | 427.9 | 409.5 | 403.8 | 399.3 |
| 52.5° | 12545.8 | 4946.6 | 1621.2 | 713.8 | 541.7 | 554.5 | 451.3 | 421.1 | 403.8 | 395.9 | 387.6 |
| 55° | 13547.0 | 5238.9 | 1482.6 | 633.6 | 515.3 | 543.9 | 447.9 | 413.2 | 394.8 | 383.1 | 375.9 |
| 57.5° | 14280.4 | 5344.4 | 1305.6 | 581.6 | 478.0 | 526.6 | 443.0 | 402.7 | 383.1 | 373.7 | 364.6 |
| 60° | 14135.4 | 5140.2 | 1155.7 | 548.8 | 455.8 | 475.7 | 439.6 | 393.3 | 372.5 | 365.8 | 357.1 |
| 62.5° | 12974.1 | 4606.4 | 1059.2 | 533.8 | 441.8 | 433.9 | 443.0 | 384.2 | 363.5 | 356.0 | 353.7 |
| 65° | 11232.3 | 3818.4 | 1021.2 | 530.4 | 430.5 | 409.5 | 412.1 | 373.7 | 352.6 | 346.9 | 344.7 |
| 67.5° | 9265.3 | 3082.0 | 987.7 | 541.7 | 415.5 | 392.1 | 380.8 | 359.7 | 342.0 | 336.4 | 331.9 |
| 70° | 7306.5 | 2563.3 | 972.2 | 534.9 | 397.0 | 374.8 | 362.4 | 344.7 | 329.6 | 323.6 | 320.2 |
| 72.5° | 5883.8 | 2165.2 | 963.9 | 527.7 | 372.5 | 351.4 | 339.8 | 324.7 | 308.5 | 306.2 | 302.9 |
| 75° | 4979.4 | 1702.2 | 883.3 | 505.9 | 344.7 | 323.6 | 315.7 | 301.7 | 285.5 | 285.5 | 283.3 |
| 77.5° | 3841.0 | 1231.0 | 734.5 | 447.9 | 315.7 | 292.3 | 285.5 | 275.0 | 256.5 | 259.9 | 258.8 |
| 80° | 2837.2 | 803.1 | 574.4 | 371.4 | 279.9 | 257.7 | 253.9 | 243.7 | 223.7 | 228.6 | 228.6 |
| 82.5° | 1943.7 | 526.6 | 413.2 | 304.0 | 238.8 | 218.1 | 218.1 | 207.6 | 185.7 | 188.0 | 195.1 |
| 85° | 976.0 | 362.4 | 308.5 | 235.4 | 185.7 | 175.2 | 175.2 | 167.2 | 145.0 | 146.2 | 155.6 |
| 87.5° | 297.2 | 218.1 | 204.2 | 168.4 | 133.3 | 131.1 | 125.1 | 119.4 | 105.5 | 104.3 | 110.4 |
| 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-SLL-7027-600

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 | 7131.7 |
| 2.5° | 6150.8 | 6084.5 | 6005.1 | 5828.4 | 5769.3 | 5765.5 | 5819.4 | 5763.2 | 5870.2 | 5825.0 | 5874.7 |
| 5° | 4960.2 | 4895.7 | 4806.1 | 4581.2 | 4444.1 | 4351.1 | 4307.4 | 4177.4 | 4271.2 | 4202.6 | 4259.9 |
| 7.5° | 3648.2 | 3663.2 | 3604.1 | 3471.9 | 3173.5 | 3024.0 | 2935.9 | 2856.8 | 2925.3 | 2918.2 | 3027.4 |
| 10° | 2564.5 | 2604.8 | 2563.3 | 2430.0 | 2188.1 | 2106.0 | 2122.2 | 2153.5 | 2243.1 | 2289.1 | 2457.5 |
| 12.5° | 1846.1 | 1843.9 | 1817.1 | 1697.7 | 1538.7 | 1547.8 | 1614.1 | 1668.3 | 1750.8 | 1799.8 | 1971.2 |
| 15° | 1378.3 | 1357.6 | 1345.9 | 1248.3 | 1157.9 | 1177.9 | 1210.3 | 1215.9 | 1268.3 | 1297.3 | 1436.7 |
| 17.5° | 1041.9 | 1052.4 | 1064.9 | 995.6 | 927.0 | 914.2 | 889.0 | 857.3 | 872.8 | 878.4 | 947.7 |
| 20° | 827.2 | 869.0 | 900.6 | 851.7 | 782.4 | 744.7 | 712.3 | 691.6 | 691.6 | 690.5 | 710.0 |
| 22.5° | 722.9 | 753.0 | 786.9 | 753.0 | 690.5 | 657.7 | 639.2 | 623.0 | 620.8 | 620.8 | 639.2 |
| 25° | 666.4 | 688.2 | 720.6 | 697.6 | 650.9 | 626.4 | 609.1 | 588.4 | 580.5 | 577.8 | 590.6 |
| 27.5° | 638.1 | 647.5 | 663.7 | 642.6 | 603.4 | 591.8 | 587.2 | 568.8 | 557.9 | 552.2 | 565.4 |
| 30° | 590.6 | 588.4 | 589.5 | 568.8 | 537.1 | 536.0 | 543.9 | 547.7 | 543.9 | 542.8 | 562.8 |
| 32.5° | 546.6 | 541.7 | 540.5 | 522.1 | 493.1 | 486.3 | 493.1 | 500.2 | 508.1 | 519.8 | 542.8 |
| 35° | 490.8 | 502.5 | 509.3 | 493.1 | 458.0 | 437.3 | 429.4 | 416.6 | 409.5 | 409.5 | 436.2 |
| 37.5° | 446.7 | 473.5 | 484.0 | 469.0 | 430.5 | 401.5 | 387.6 | 385.3 | 386.5 | 391.0 | 416.6 |
| 40° | 431.7 | 451.3 | 460.3 | 445.6 | 407.2 | 380.8 | 372.5 | 370.3 | 372.5 | 379.7 | 404.9 |
| 42.5° | 422.3 | 436.2 | 435.1 | 416.6 | 385.3 | 366.9 | 362.4 | 359.7 | 362.4 | 369.1 | 397.0 |
| 45° | 414.4 | 423.4 | 414.4 | 392.1 | 363.5 | 353.7 | 354.8 | 353.7 | 356.0 | 363.5 | 389.9 |
| 47.5° | 407.2 | 410.6 | 399.3 | 377.1 | 346.9 | 344.7 | 349.2 | 352.6 | 354.8 | 361.2 | 388.7 |
| 50° | 397.0 | 397.0 | 386.5 | 363.5 | 333.0 | 334.1 | 339.8 | 348.1 | 349.2 | 356.0 | 378.6 |
| 52.5° | 384.2 | 383.1 | 375.9 | 353.7 | 321.3 | 324.7 | 324.7 | 334.1 | 336.4 | 344.7 | 368.0 |
| 55° | 373.7 | 371.4 | 368.0 | 346.9 | 311.1 | 316.8 | 313.4 | 316.8 | 322.4 | 330.7 | 356.0 |
| 57.5° | 364.6 | 359.7 | 359.7 | 340.9 | 302.9 | 305.1 | 297.2 | 301.7 | 308.5 | 315.7 | 342.0 |
| 60° | 354.8 | 350.3 | 352.6 | 333.0 | 290.0 | 287.8 | 284.4 | 293.4 | 296.1 | 304.0 | 330.7 |
| 62.5° | 344.7 | 340.9 | 342.0 | 323.6 | 281.0 | 275.0 | 275.0 | 283.3 | 284.4 | 296.1 | 321.3 |
| 65° | 336.4 | 331.9 | 330.7 | 314.5 | 270.5 | 263.7 | 267.1 | 270.5 | 272.7 | 284.4 | 308.5 |
| 67.5° | 328.5 | 319.0 | 319.0 | 306.2 | 258.8 | 251.6 | 258.8 | 257.7 | 261.4 | 271.6 | 291.2 |
| 70° | 317.9 | 305.1 | 306.2 | 300.6 | 247.1 | 238.8 | 244.8 | 243.7 | 246.0 | 252.8 | 272.7 |
| 72.5° | 301.7 | 291.2 | 293.4 | 291.2 | 235.4 | 223.7 | 226.0 | 226.0 | 226.0 | 232.0 | 252.8 |
| 75° | 281.0 | 272.7 | 279.9 | 285.5 | 221.5 | 205.3 | 207.6 | 207.6 | 204.2 | 207.6 | 233.2 |
| 77.5° | 255.0 | 250.5 | 273.8 | 265.9 | 205.3 | 185.7 | 185.7 | 183.4 | 176.7 | 181.2 | 208.7 |
| 80° | 227.5 | 223.7 | 252.8 | 222.6 | 186.8 | 161.6 | 159.0 | 152.9 | 146.2 | 149.5 | 177.8 |
| 82.5° | 198.5 | 195.1 | 212.4 | 170.6 | 161.6 | 133.3 | 127.7 | 117.1 | 110.4 | 113.8 | 139.0 |
| 85° | 162.7 | 162.7 | 163.9 | 128.8 | 122.8 | 102.1 | 95.3 | 81.4 | 73.1 | 75.3 | 99.8 |
| 87.5° | 116.0 | 119.4 | 110.4 | 88.1 | 73.1 | 56.9 | 52.4 | 44.1 | 36.9 | 42.9 | 52.4 |
| 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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| 42.5° | 422.3 | 458.0 | 510.4 | 957.1 | 2028.4 | 5215.9 | 10963.0 | 12763.9 |
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| 75° | 239.9 | 253.9 | 286.7 | 527.7 | 1036.3 | 1936.5 | 5388.8 | 6015.2 |
| 77.5° | 213.6 | 223.7 | 251.6 | 407.2 | 769.6 | 1239.3 | 4044.8 | 4394.4 |
| 80° | 182.3 | 188.0 | 211.3 | 298.3 | 526.6 | 775.2 | 3200.3 | 3526.1 |
| 82.5° | 146.2 | 148.4 | 163.9 | 223.7 | 342.0 | 498.0 | 2143.3 | 2446.2 |
| 85° | 103.2 | 103.2 | 112.6 | 162.7 | 233.2 | 315.7 | 1163.6 | 1290.5 |
| 87.5° | 48.6 | 49.7 | 49.7 | 89.3 | 121.7 | 160.5 | 268.2 | 165.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)