

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: P298996

Luminaire Tested: **GAA-AF-04-LED-U-SLL-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298996
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-04-LED-U-SLL-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K 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: 13855.2 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

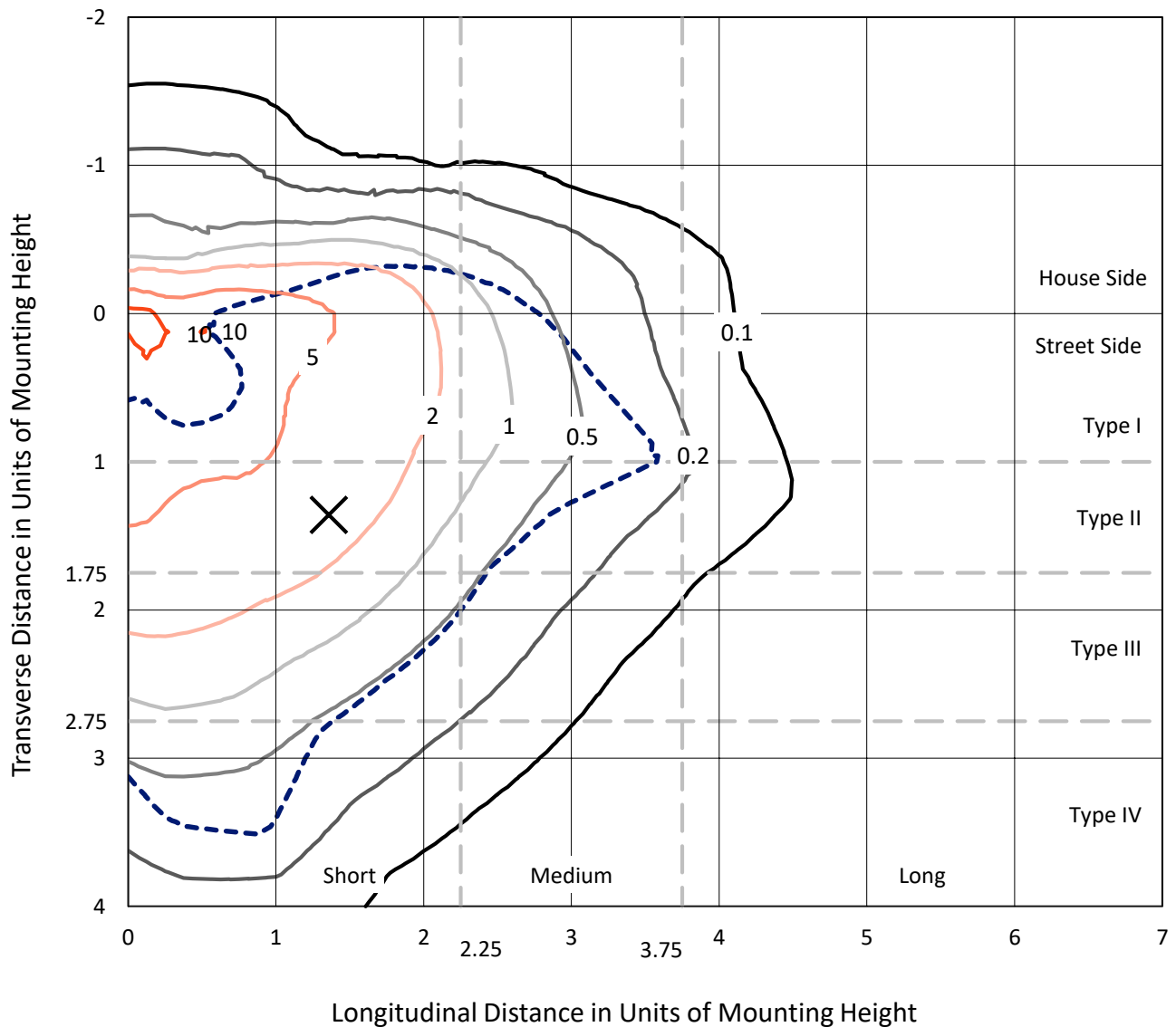
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P298996
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Iso-Footcandle Lines of Horizontal Illumination

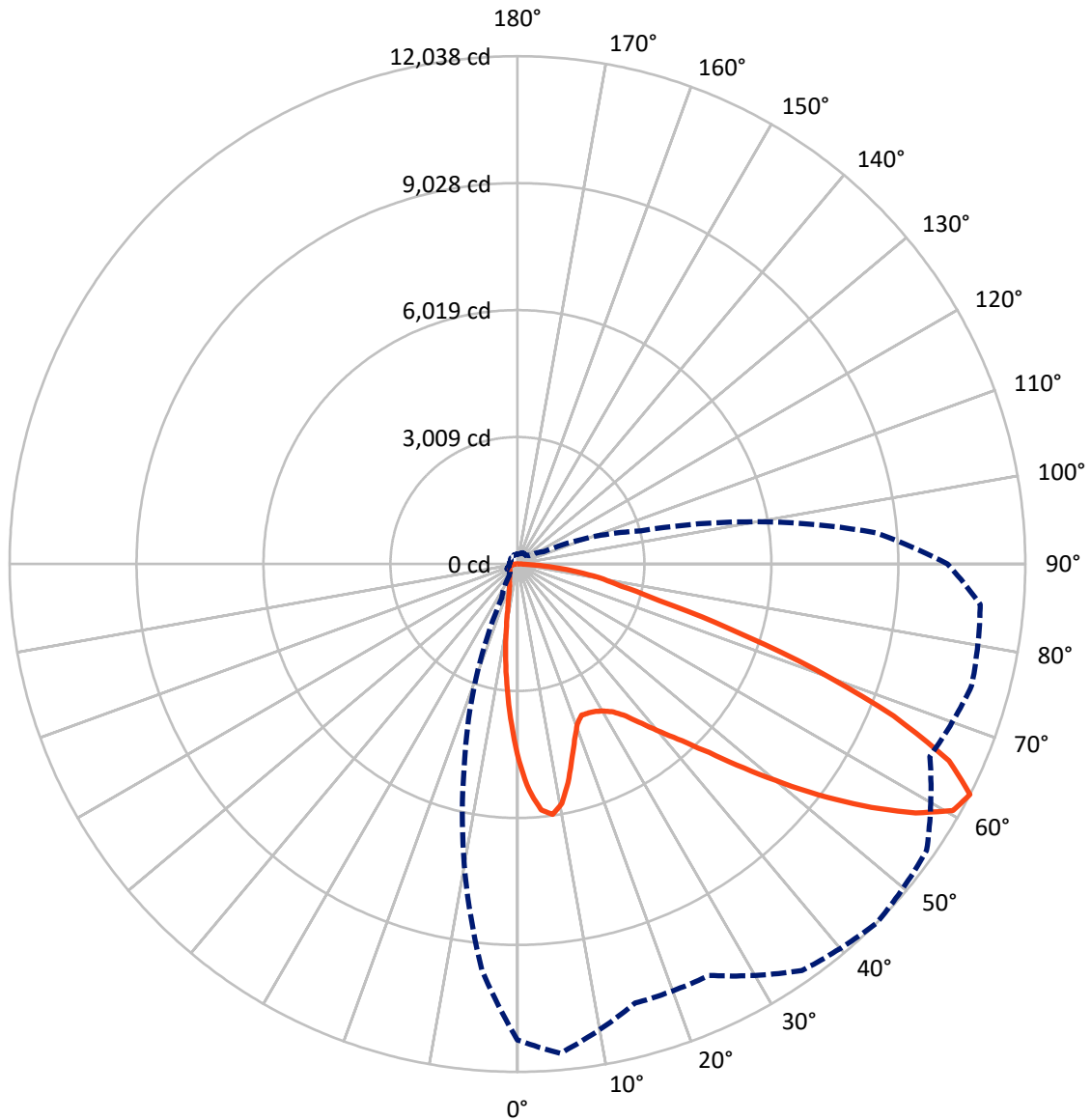
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.8 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 | 2292.8 | 0.0 | 2292.8 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 11562.4 | 0.0 | 11562.4 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 13855.2 | 0.0 | 13855.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 340.8 | 2.5 |
| 10°-20° | 624.9 | 4.5 |
| 20°-30° | 911.1 | 6.6 |
| 30°-40° | 1403.1 | 10.1 |
| 40°-50° | 2065.0 | 14.9 |
| 50°-60° | 3029.0 | 21.9 |
| 60°-70° | 3386.0 | 24.4 |
| 70°-80° | 1657.7 | 12.0 |
| 80°-90° | 437.7 | 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° | 13855.2 | 100.0 |
| 0°-180° | 13855.2 | 100.0 |

Coefficient of Utilization



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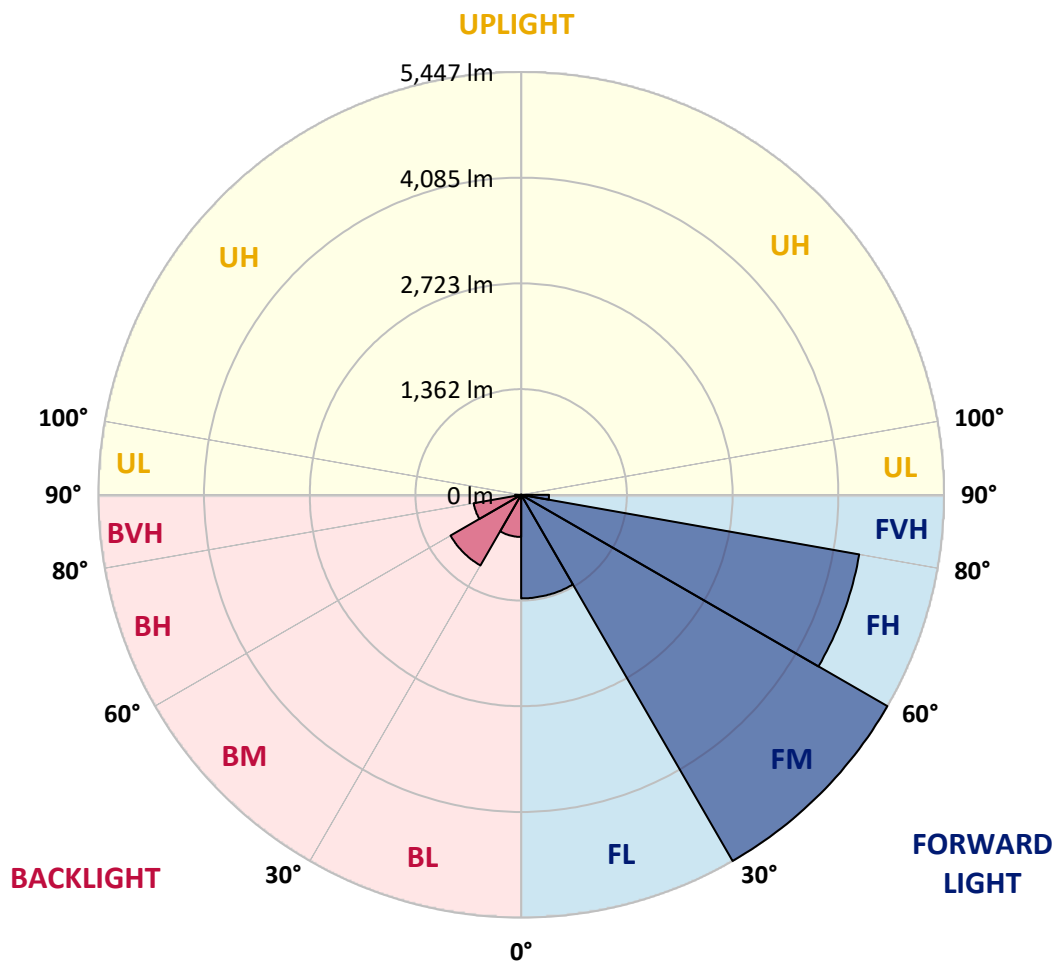
CATALOG NUMBER: GAA-AF-04-LED-U-SLL-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1334.2 | 9.6 | | | |
| FM (30°-60°) | 5446.6 | 39.3 | | | |
| FH (60°-80°) | 4422.1 | 31.9 | | | G2/5000 |
| FVH (80°-90°) | 359.4 | 2.6 | | | G3/500 |
| BL (0°-30°) | 542.5 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 1050.6 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 621.6 | 4.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 78.2 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





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CATALOG NUMBER: GAA-AF-04-LED-U-SLL-600

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 |
| 2.5° | 4863.7 | 4941.6 | 5093.1 | 5206.4 | 5344.6 | 5376.5 | 5420.7 | 5377.2 | 5300.3 | 5198.2 | 5164.8 |
| 5° | 4573.6 | 4739.8 | 5107.5 | 5431.4 | 5719.2 | 5853.2 | 5890.7 | 5780.0 | 5557.0 | 5263.7 | 5084.7 |
| 7.5° | 4108.3 | 4344.4 | 4842.4 | 5319.4 | 5743.4 | 5994.1 | 5987.9 | 5731.3 | 5320.8 | 4843.1 | 4556.1 |
| 10° | 3706.8 | 3976.5 | 4547.9 | 5081.0 | 5531.0 | 5774.0 | 5680.1 | 5352.2 | 4862.2 | 4312.3 | 4001.0 |
| 12.5° | 3482.3 | 3746.6 | 4326.1 | 4861.4 | 5237.8 | 5321.6 | 5249.9 | 4928.4 | 4466.8 | 3911.0 | 3638.3 |
| 15° | 3443.2 | 3733.7 | 4237.9 | 4673.5 | 4884.4 | 4811.5 | 4726.0 | 4582.1 | 4255.9 | 3781.5 | 3497.4 |
| 17.5° | 3611.8 | 3931.5 | 4339.3 | 4542.5 | 4506.6 | 4379.3 | 4355.1 | 4371.1 | 4292.8 | 3925.4 | 3598.0 |
| 20° | 3934.7 | 4318.5 | 4580.6 | 4480.9 | 4219.6 | 4044.3 | 4050.5 | 4295.0 | 4527.2 | 4290.3 | 3916.2 |
| 22.5° | 4387.7 | 4825.8 | 4928.4 | 4513.6 | 4098.4 | 3890.5 | 3940.9 | 4337.0 | 4901.3 | 4823.6 | 4345.9 |
| 25° | 4974.2 | 5373.5 | 5299.6 | 4632.2 | 4110.5 | 3909.5 | 3949.8 | 4481.7 | 5342.8 | 5356.7 | 4877.8 |
| 27.5° | 5542.4 | 5912.8 | 5610.9 | 4790.0 | 4161.0 | 3954.5 | 4007.9 | 4709.1 | 5764.9 | 5935.5 | 5485.5 |
| 30° | 5985.7 | 6243.3 | 5734.2 | 4933.9 | 4259.9 | 4042.1 | 4108.3 | 4925.5 | 5957.0 | 6326.2 | 5953.1 |
| 32.5° | 6352.9 | 6537.8 | 5930.8 | 5112.2 | 4441.9 | 4179.8 | 4296.5 | 5188.3 | 6233.4 | 6698.0 | 6410.7 |
| 35° | 6821.9 | 6874.6 | 6175.3 | 5310.9 | 4723.0 | 4419.9 | 4564.5 | 5445.7 | 6497.0 | 7073.3 | 6861.7 |
| 37.5° | 7372.0 | 7304.3 | 6406.0 | 5582.9 | 5086.4 | 4795.2 | 4914.9 | 5728.3 | 6713.8 | 7499.1 | 7322.3 |
| 40° | 7915.7 | 7752.5 | 6695.8 | 6004.7 | 5616.5 | 5237.8 | 5379.4 | 6030.0 | 6916.6 | 7925.6 | 7772.6 |
| 42.5° | 8378.1 | 8136.5 | 6981.1 | 6468.6 | 6109.8 | 5726.1 | 5895.2 | 6333.8 | 7109.9 | 8289.6 | 8163.2 |
| 45° | 8720.0 | 8419.9 | 7253.1 | 6914.1 | 6790.0 | 6374.9 | 6455.0 | 6681.7 | 7319.4 | 8593.7 | 8484.7 |
| 47.5° | 9025.4 | 8704.7 | 7560.7 | 7363.6 | 7384.9 | 7218.7 | 7089.9 | 7086.9 | 7566.4 | 8841.9 | 8788.5 |
| 50° | 9434.3 | 9100.1 | 7891.3 | 7826.5 | 8277.5 | 8166.9 | 7882.8 | 7559.9 | 7878.4 | 9123.8 | 9117.6 |
| 52.5° | 9998.1 | 9726.4 | 8295.0 | 8325.4 | 9110.9 | 9183.1 | 8831.1 | 8128.4 | 8367.2 | 9640.8 | 9604.5 |
| 55° | 10664.7 | 10505.9 | 8845.1 | 8899.0 | 10132.8 | 10184.8 | 9834.9 | 8838.7 | 9086.5 | 10389.7 | 10288.4 |
| 57.5° | 11184.6 | 11151.3 | 9448.2 | 9587.6 | 10896.1 | 11129.3 | 10807.8 | 9661.6 | 9896.7 | 11020.2 | 10765.8 |
| 60° | 11391.8 | 11554.0 | 10090.3 | 10282.2 | 11602.2 | 11860.1 | 11578.5 | 10384.0 | 10615.0 | 11281.6 | 10733.2 |
| 62.5° | 11280.1 | 11642.3 | 10774.2 | 10758.1 | 11759.7 | 12037.7 | 11839.6 | 10786.3 | 11147.5 | 11011.8 | 10190.2 |
| 65° | 10762.8 | 11324.8 | 11171.0 | 10635.5 | 11220.5 | 11243.2 | 11179.2 | 10606.6 | 11273.2 | 10159.5 | 9140.4 |
| 67.5° | 9636.1 | 10445.1 | 10648.3 | 9584.7 | 9765.7 | 9617.3 | 9509.8 | 9622.5 | 10617.9 | 8882.2 | 7681.8 |
| 70° | 7848.7 | 9065.9 | 9163.1 | 7666.0 | 7583.7 | 7483.8 | 7269.9 | 7889.0 | 9325.6 | 7279.8 | 6095.5 |
| 72.5° | 5771.1 | 7050.6 | 7349.8 | 5622.5 | 5241.7 | 5262.0 | 5093.1 | 5945.1 | 7582.2 | 5407.6 | 4550.9 |
| 75° | 3948.3 | 5105.2 | 5750.6 | 3923.1 | 3466.5 | 3474.6 | 3453.1 | 4212.7 | 6039.1 | 3761.7 | 3405.4 |
| 77.5° | 2884.4 | 3647.4 | 4337.0 | 2637.4 | 2560.5 | 2513.3 | 2501.9 | 2947.5 | 4630.0 | 2731.4 | 2644.3 |
| 80° | 2314.5 | 2694.8 | 2913.1 | 1827.9 | 1965.6 | 1961.9 | 1898.6 | 2026.7 | 3023.6 | 1997.8 | 1977.8 |
| 82.5° | 1605.6 | 2071.0 | 2360.3 | 1432.6 | 1326.7 | 1304.5 | 1320.1 | 1509.5 | 2137.2 | 1365.6 | 1298.6 |
| 85° | 847.1 | 1375.5 | 2337.5 | 1269.6 | 787.5 | 628.3 | 781.6 | 1236.0 | 1851.7 | 723.7 | 633.5 |
| 87.5° | 108.3 | 397.6 | 1547.5 | 506.6 | 310.8 | 167.4 | 371.1 | 696.0 | 1189.0 | 147.6 | 128.8 |
| 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-04-LED-U-SLL-600

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 |
| 2.5° | 5078.8 | 4977.4 | 4844.9 | 4722.0 | 4594.9 | 4468.3 | 4303.2 | 4199.6 | 4128.1 | 4114.3 | 4084.1 |
| 5° | 4955.4 | 4618.6 | 4364.2 | 4144.2 | 3944.6 | 3662.5 | 3506.5 | 3377.0 | 3307.7 | 3301.0 | 3284.2 |
| 7.5° | 4386.2 | 3921.6 | 3578.2 | 3266.7 | 2984.1 | 2756.4 | 2504.9 | 2387.9 | 2339.7 | 2351.1 | 2362.5 |
| 10° | 3794.3 | 3275.1 | 2880.5 | 2562.0 | 2313.0 | 2121.2 | 1919.4 | 1783.2 | 1688.5 | 1669.4 | 1665.7 |
| 12.5° | 3361.9 | 2792.2 | 2409.2 | 2184.2 | 1991.9 | 1811.1 | 1597.2 | 1436.3 | 1313.9 | 1271.9 | 1243.9 |
| 15° | 3178.9 | 2556.1 | 2154.8 | 1912.5 | 1699.8 | 1470.6 | 1271.9 | 1103.5 | 991.0 | 954.4 | 933.9 |
| 17.5° | 3218.0 | 2490.6 | 1979.5 | 1669.4 | 1397.7 | 1158.4 | 907.9 | 763.8 | 696.0 | 678.7 | 678.7 |
| 20° | 3422.2 | 2478.4 | 1834.6 | 1445.7 | 1106.4 | 829.3 | 623.8 | 541.5 | 519.5 | 517.2 | 523.2 |
| 22.5° | 3708.5 | 2521.2 | 1726.8 | 1251.6 | 859.9 | 605.5 | 485.8 | 455.4 | 445.5 | 448.0 | 454.7 |
| 25° | 4135.0 | 2665.1 | 1648.4 | 1078.5 | 674.7 | 495.7 | 433.2 | 415.1 | 410.4 | 416.6 | 425.0 |
| 27.5° | 4640.6 | 2809.0 | 1599.5 | 948.2 | 569.7 | 453.2 | 411.9 | 393.1 | 396.1 | 403.8 | 411.2 |
| 30° | 5084.7 | 2927.2 | 1522.6 | 855.5 | 537.0 | 455.4 | 411.9 | 386.2 | 383.2 | 384.7 | 386.9 |
| 32.5° | 5483.3 | 3007.1 | 1432.6 | 767.0 | 463.1 | 404.5 | 384.7 | 381.0 | 364.0 | 357.8 | 358.8 |
| 35° | 5826.7 | 3007.1 | 1378.7 | 715.3 | 415.1 | 358.8 | 326.9 | 307.8 | 299.2 | 299.9 | 308.6 |
| 37.5° | 6158.0 | 2946.7 | 1352.0 | 686.1 | 389.2 | 341.2 | 313.0 | 296.2 | 284.8 | 282.6 | 284.1 |
| 40° | 6450.3 | 2859.2 | 1321.6 | 674.0 | 369.4 | 330.6 | 304.1 | 290.0 | 277.9 | 274.2 | 274.9 |
| 42.5° | 6684.9 | 2788.2 | 1287.9 | 658.2 | 357.0 | 322.9 | 297.7 | 285.6 | 272.0 | 268.0 | 267.3 |
| 45° | 6938.6 | 2764.8 | 1243.9 | 626.0 | 363.2 | 323.7 | 296.2 | 283.3 | 269.5 | 265.1 | 263.6 |
| 47.5° | 7272.9 | 2838.7 | 1198.2 | 588.0 | 376.3 | 327.6 | 298.4 | 283.3 | 268.8 | 265.1 | 263.6 |
| 50° | 7693.9 | 3012.3 | 1140.1 | 532.3 | 363.2 | 338.2 | 297.7 | 280.9 | 268.8 | 265.1 | 262.1 |
| 52.5° | 8234.9 | 3246.9 | 1064.2 | 468.5 | 355.5 | 364.0 | 296.2 | 276.4 | 265.1 | 259.9 | 254.4 |
| 55° | 8892.1 | 3438.8 | 973.2 | 415.9 | 338.2 | 357.0 | 294.0 | 271.2 | 259.1 | 251.5 | 246.8 |
| 57.5° | 9373.5 | 3508.0 | 857.0 | 381.8 | 313.8 | 345.7 | 290.8 | 264.3 | 251.5 | 245.3 | 239.3 |
| 60° | 9278.3 | 3374.0 | 758.6 | 360.2 | 299.2 | 312.3 | 288.5 | 258.1 | 244.5 | 240.1 | 234.4 |
| 62.5° | 8516.1 | 3023.6 | 695.3 | 350.4 | 290.0 | 284.8 | 290.8 | 252.2 | 238.6 | 233.7 | 232.2 |
| 65° | 7372.8 | 2506.4 | 670.3 | 348.1 | 282.6 | 268.8 | 270.5 | 245.3 | 231.4 | 227.7 | 226.2 |
| 67.5° | 6081.6 | 2023.0 | 648.3 | 355.5 | 272.7 | 257.4 | 250.0 | 236.1 | 224.5 | 220.8 | 217.8 |
| 70° | 4795.9 | 1682.5 | 638.2 | 351.1 | 260.6 | 246.0 | 237.9 | 226.2 | 216.3 | 212.4 | 210.2 |
| 72.5° | 3862.1 | 1421.2 | 632.7 | 346.4 | 244.5 | 230.7 | 223.0 | 213.1 | 202.5 | 201.0 | 198.8 |
| 75° | 3268.4 | 1117.3 | 579.8 | 332.1 | 226.2 | 212.4 | 207.2 | 198.0 | 187.4 | 187.4 | 185.9 |
| 77.5° | 2521.2 | 808.0 | 482.1 | 294.0 | 207.2 | 191.9 | 187.4 | 180.5 | 168.4 | 170.6 | 169.9 |
| 80° | 1862.3 | 527.1 | 377.1 | 243.8 | 183.7 | 169.1 | 166.6 | 160.0 | 146.9 | 150.1 | 150.1 |
| 82.5° | 1275.8 | 345.7 | 271.2 | 199.5 | 156.8 | 143.2 | 143.2 | 136.2 | 121.9 | 123.4 | 128.1 |
| 85° | 640.6 | 237.9 | 202.5 | 154.5 | 121.9 | 115.0 | 115.0 | 109.8 | 95.2 | 95.9 | 102.1 |
| 87.5° | 195.1 | 143.2 | 134.0 | 110.5 | 87.5 | 86.0 | 82.1 | 78.4 | 69.2 | 68.5 | 72.4 |
| 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-04-LED-U-SLL-600

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 |
| 2.5° | 4037.4 | 3993.8 | 3941.7 | 3825.7 | 3786.9 | 3784.4 | 3819.8 | 3782.9 | 3853.2 | 3823.5 | 3856.1 |
| 5° | 3255.8 | 3213.5 | 3154.7 | 3007.1 | 2917.1 | 2856.0 | 2827.3 | 2742.0 | 2803.6 | 2758.6 | 2796.2 |
| 7.5° | 2394.6 | 2404.5 | 2365.7 | 2278.9 | 2083.1 | 1984.9 | 1927.1 | 1875.1 | 1920.1 | 1915.5 | 1987.2 |
| 10° | 1683.3 | 1709.7 | 1682.5 | 1595.0 | 1436.3 | 1382.4 | 1393.0 | 1413.5 | 1472.4 | 1502.5 | 1613.1 |
| 12.5° | 1211.8 | 1210.3 | 1192.7 | 1114.4 | 1010.0 | 1016.0 | 1059.5 | 1095.1 | 1149.2 | 1181.4 | 1293.9 |
| 15° | 904.7 | 891.1 | 883.4 | 819.4 | 760.0 | 773.2 | 794.4 | 798.1 | 832.5 | 851.5 | 943.0 |
| 17.5° | 683.9 | 690.8 | 699.0 | 653.5 | 608.5 | 600.1 | 583.5 | 562.7 | 572.9 | 576.6 | 622.1 |
| 20° | 543.0 | 570.4 | 591.2 | 559.0 | 513.5 | 488.8 | 467.6 | 454.0 | 454.0 | 453.2 | 466.1 |
| 22.5° | 474.5 | 494.3 | 516.5 | 494.3 | 453.2 | 431.7 | 419.6 | 409.0 | 407.5 | 407.5 | 419.6 |
| 25° | 437.4 | 451.7 | 473.0 | 457.9 | 427.2 | 411.2 | 399.8 | 386.2 | 381.0 | 379.3 | 387.7 |
| 27.5° | 418.8 | 425.0 | 435.7 | 421.8 | 396.1 | 388.4 | 385.5 | 373.3 | 366.2 | 362.5 | 371.1 |
| 30° | 387.7 | 386.2 | 386.9 | 373.3 | 352.6 | 351.8 | 357.0 | 359.5 | 357.0 | 356.3 | 369.4 |
| 32.5° | 358.8 | 355.5 | 354.8 | 342.7 | 323.7 | 319.2 | 323.7 | 328.3 | 333.5 | 341.2 | 356.3 |
| 35° | 322.2 | 329.8 | 334.3 | 323.7 | 300.7 | 287.1 | 281.9 | 273.5 | 268.8 | 268.8 | 286.3 |
| 37.5° | 293.2 | 310.8 | 317.7 | 307.8 | 282.6 | 263.6 | 254.4 | 252.9 | 253.7 | 256.6 | 273.5 |
| 40° | 283.3 | 296.2 | 302.1 | 292.5 | 267.3 | 250.0 | 244.5 | 243.0 | 244.5 | 249.2 | 265.8 |
| 42.5° | 277.2 | 286.3 | 285.6 | 273.5 | 252.9 | 240.8 | 237.9 | 236.1 | 237.9 | 242.3 | 260.6 |
| 45° | 272.0 | 277.9 | 272.0 | 257.4 | 238.6 | 232.2 | 232.9 | 232.2 | 233.7 | 238.6 | 255.9 |
| 47.5° | 267.3 | 269.5 | 262.1 | 247.5 | 227.7 | 226.2 | 229.2 | 231.4 | 232.9 | 237.1 | 255.2 |
| 50° | 260.6 | 260.6 | 253.7 | 238.6 | 218.6 | 219.3 | 223.0 | 228.5 | 229.2 | 233.7 | 248.5 |
| 52.5° | 252.2 | 251.5 | 246.8 | 232.2 | 210.9 | 213.1 | 213.1 | 219.3 | 220.8 | 226.2 | 241.6 |
| 55° | 245.3 | 243.8 | 241.6 | 227.7 | 204.2 | 207.9 | 205.7 | 207.9 | 211.6 | 217.1 | 233.7 |
| 57.5° | 239.3 | 236.1 | 236.1 | 223.8 | 198.8 | 200.3 | 195.1 | 198.0 | 202.5 | 207.2 | 224.5 |
| 60° | 232.9 | 229.9 | 231.4 | 218.6 | 190.4 | 188.9 | 186.7 | 192.6 | 194.3 | 199.5 | 217.1 |
| 62.5° | 226.2 | 223.8 | 224.5 | 212.4 | 184.4 | 180.5 | 180.5 | 185.9 | 186.7 | 194.3 | 210.9 |
| 65° | 220.8 | 217.8 | 217.1 | 206.5 | 177.5 | 173.1 | 175.3 | 177.5 | 179.0 | 186.7 | 202.5 |
| 67.5° | 215.6 | 209.4 | 209.4 | 201.0 | 169.9 | 165.2 | 169.9 | 169.1 | 171.6 | 178.3 | 191.1 |
| 70° | 208.7 | 200.3 | 201.0 | 197.3 | 162.2 | 156.8 | 160.7 | 160.0 | 161.5 | 165.9 | 179.0 |
| 72.5° | 198.0 | 191.1 | 192.6 | 191.1 | 154.5 | 146.9 | 148.4 | 148.4 | 148.4 | 152.3 | 165.9 |
| 75° | 184.4 | 179.0 | 183.7 | 187.4 | 145.4 | 134.8 | 136.2 | 136.2 | 134.0 | 136.2 | 153.0 |
| 77.5° | 167.4 | 164.4 | 179.8 | 174.6 | 134.8 | 121.9 | 121.9 | 120.4 | 116.0 | 118.9 | 137.0 |
| 80° | 149.3 | 146.9 | 165.9 | 146.1 | 122.6 | 106.1 | 104.3 | 100.4 | 95.9 | 98.2 | 116.7 |
| 82.5° | 130.3 | 128.1 | 139.4 | 112.0 | 106.1 | 87.5 | 83.8 | 76.9 | 72.4 | 74.7 | 91.2 |
| 85° | 106.8 | 106.8 | 107.6 | 84.6 | 80.6 | 67.0 | 62.6 | 53.4 | 48.0 | 49.5 | 65.5 |
| 87.5° | 76.2 | 78.4 | 72.4 | 57.9 | 48.0 | 37.3 | 34.4 | 28.9 | 24.2 | 28.2 | 34.4 |
| 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-04-LED-U-SLL-600

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|-------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 | 4681.2 |
| 2.5° | 4023.8 | 4107.6 | 4202.8 | 4324.4 | 4429.0 | 4600.1 | 4764.8 | 4863.7 |
| 5° | 3008.5 | 3148.0 | 3321.3 | 3544.8 | 3752.8 | 4064.8 | 4374.9 | 4573.6 |
| 7.5° | 2153.1 | 2302.4 | 2489.8 | 2768.5 | 3062.7 | 3460.8 | 3870.7 | 4108.3 |
| 10° | 1781.7 | 1934.7 | 2092.2 | 2280.4 | 2521.2 | 2954.4 | 3438.8 | 3706.8 |
| 12.5° | 1473.9 | 1637.5 | 1807.4 | 2005.5 | 2228.5 | 2615.4 | 3173.7 | 3482.3 |
| 15° | 1128.0 | 1310.7 | 1510.9 | 1761.7 | 2041.1 | 2488.3 | 3108.2 | 3443.2 |
| 17.5° | 773.2 | 977.4 | 1223.1 | 1532.5 | 1874.4 | 2447.0 | 3225.6 | 3611.8 |
| 20° | 532.3 | 680.9 | 943.8 | 1306.2 | 1717.7 | 2441.8 | 3450.9 | 3934.7 |
| 22.5° | 445.5 | 511.8 | 703.7 | 1098.3 | 1599.5 | 2507.4 | 3800.7 | 4387.7 |
| 25° | 411.9 | 451.7 | 562.0 | 917.8 | 1513.4 | 2658.2 | 4282.1 | 4974.2 |
| 27.5° | 392.4 | 428.0 | 510.3 | 799.9 | 1445.7 | 2833.2 | 4750.4 | 5542.4 |
| 30° | 399.8 | 436.4 | 495.7 | 739.5 | 1353.5 | 2979.4 | 5166.3 | 5985.7 |
| 32.5° | 360.2 | 376.3 | 425.0 | 686.1 | 1287.2 | 3102.0 | 5530.3 | 6352.9 |
| 35° | 307.1 | 335.0 | 379.3 | 661.1 | 1288.7 | 3184.3 | 5927.1 | 6821.9 |
| 37.5° | 292.5 | 320.7 | 352.6 | 652.0 | 1306.2 | 3272.1 | 6382.5 | 7372.0 |
| 40° | 283.3 | 309.3 | 336.8 | 646.8 | 1323.0 | 3352.0 | 6829.1 | 7915.7 |
| 42.5° | 277.2 | 300.7 | 335.0 | 628.3 | 1331.4 | 3423.7 | 7196.0 | 8378.1 |
| 45° | 276.4 | 300.7 | 341.2 | 610.0 | 1344.3 | 3500.6 | 7503.8 | 8720.0 |
| 47.5° | 277.2 | 310.8 | 329.8 | 588.0 | 1344.3 | 3629.1 | 7864.8 | 9025.4 |
| 50° | 274.2 | 327.6 | 317.7 | 556.8 | 1313.1 | 3872.9 | 8359.8 | 9434.3 |
| 52.5° | 272.7 | 325.4 | 294.0 | 508.8 | 1259.0 | 4259.9 | 8994.2 | 9998.1 |
| 55° | 268.8 | 313.8 | 277.2 | 437.4 | 1196.0 | 4681.9 | 9673.7 | 10664.7 |
| 57.5° | 265.1 | 277.9 | 268.0 | 374.8 | 1098.3 | 4978.9 | 10141.2 | 11184.6 |
| 60° | 296.9 | 243.0 | 260.6 | 344.2 | 968.0 | 5060.2 | 10123.2 | 11391.8 |
| 62.5° | 274.9 | 227.7 | 250.7 | 337.5 | 876.8 | 4831.8 | 9655.4 | 11280.1 |
| 65° | 215.6 | 217.8 | 240.8 | 357.0 | 852.3 | 4226.5 | 8826.6 | 10762.8 |
| 67.5° | 197.3 | 207.9 | 230.7 | 382.5 | 854.7 | 3383.9 | 7588.4 | 9636.1 |
| 70° | 185.9 | 197.3 | 219.3 | 395.4 | 860.7 | 2522.7 | 5999.3 | 7848.7 |
| 72.5° | 173.1 | 183.0 | 206.5 | 397.6 | 820.9 | 1832.4 | 4624.1 | 5771.1 |
| 75° | 157.5 | 166.6 | 188.2 | 346.4 | 680.2 | 1271.1 | 3537.2 | 3948.3 |
| 77.5° | 140.2 | 146.9 | 165.2 | 267.3 | 505.1 | 813.5 | 2655.0 | 2884.4 |
| 80° | 119.7 | 123.4 | 138.7 | 195.8 | 345.7 | 508.8 | 2100.6 | 2314.5 |
| 82.5° | 95.9 | 97.4 | 107.6 | 146.9 | 224.5 | 326.9 | 1406.9 | 1605.6 |
| 85° | 67.7 | 67.7 | 73.9 | 106.8 | 153.0 | 207.2 | 763.8 | 847.1 |
| 87.5° | 31.9 | 32.6 | 32.6 | 58.6 | 79.9 | 105.3 | 176.0 | 108.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)