

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: P299972

Luminaire Tested: **GAA-AF-07-LED-U-SL3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26737.8 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

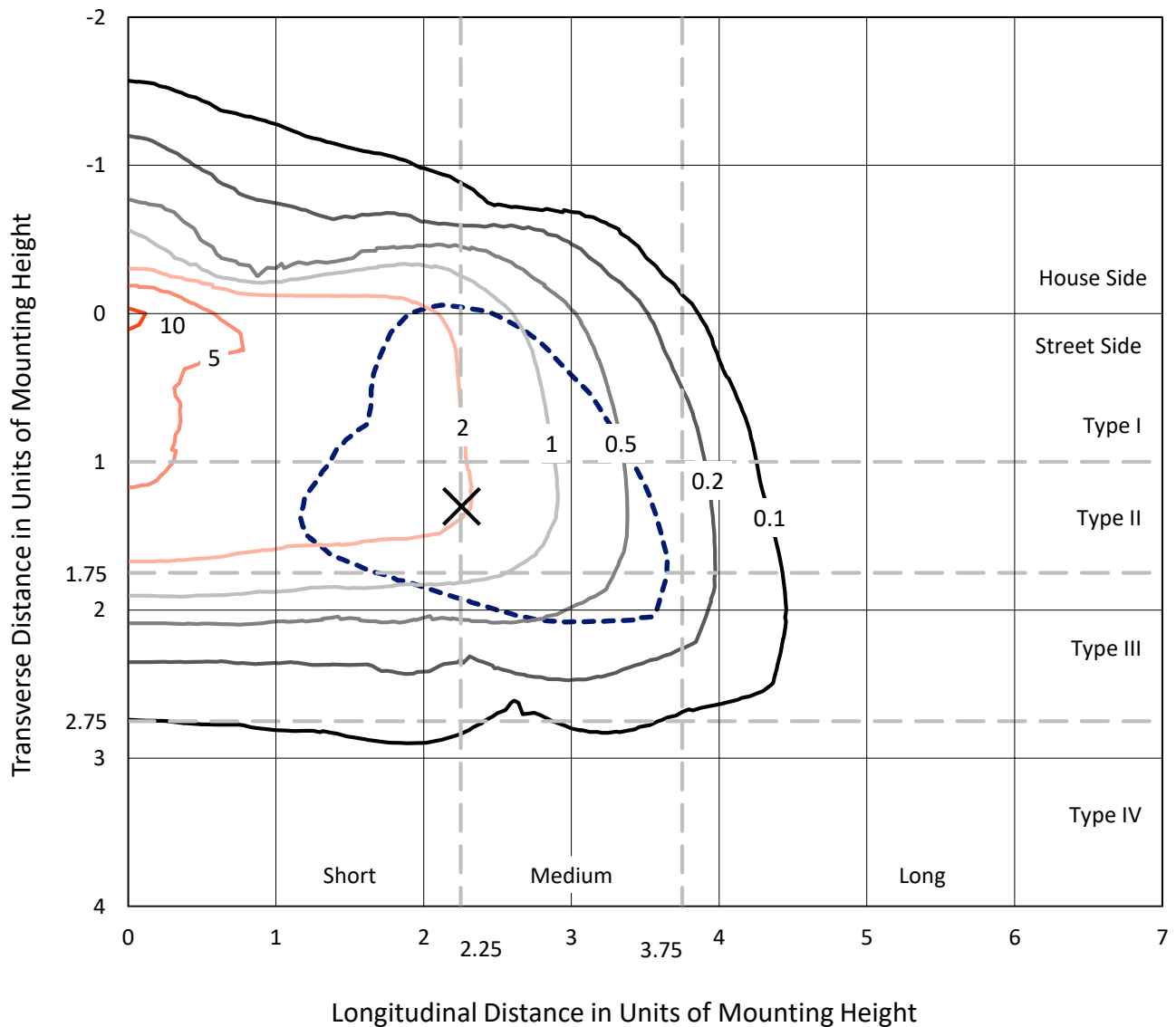
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

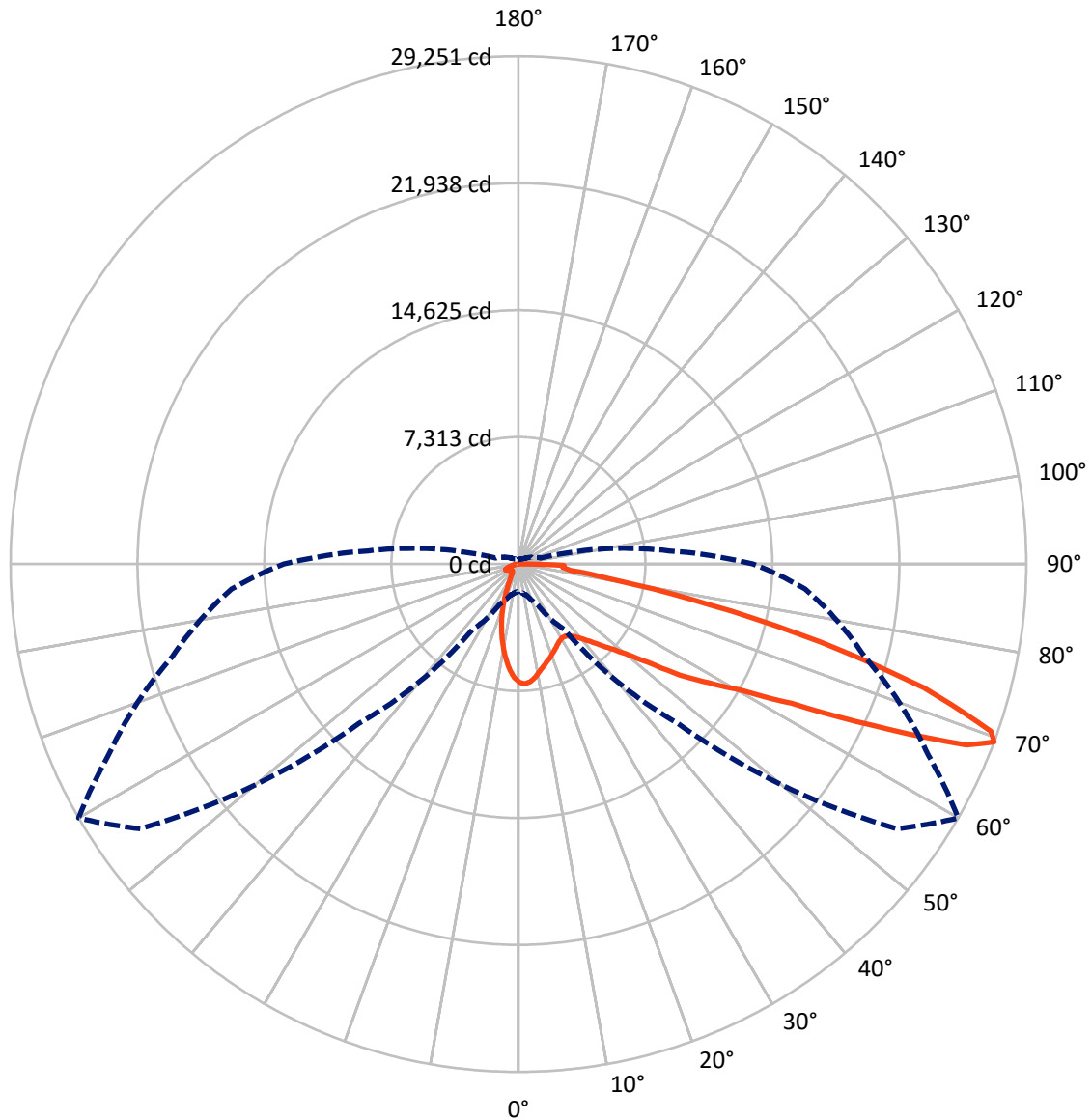
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3804.0 | 0.0 | 3804.0 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 22933.9 | 0.0 | 22933.9 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 26737.8 | 0.0 | 26737.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 576.1 | 2.2 |
| 10°-20° | 1227.4 | 4.6 |
| 20°-30° | 1563.9 | 5.8 |
| 30°-40° | 2150.0 | 8.0 |
| 40°-50° | 3488.5 | 13.0 |
| 50°-60° | 5594.7 | 20.9 |
| 60°-70° | 7446.1 | 27.8 |
| 70°-80° | 4020.3 | 15.0 |
| 80°-90° | 670.8 | 2.5 |
| 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° | 26737.8 | 100.0 |
| 0°-180° | 26737.8 | 100.0 |

Coefficient of Utilization



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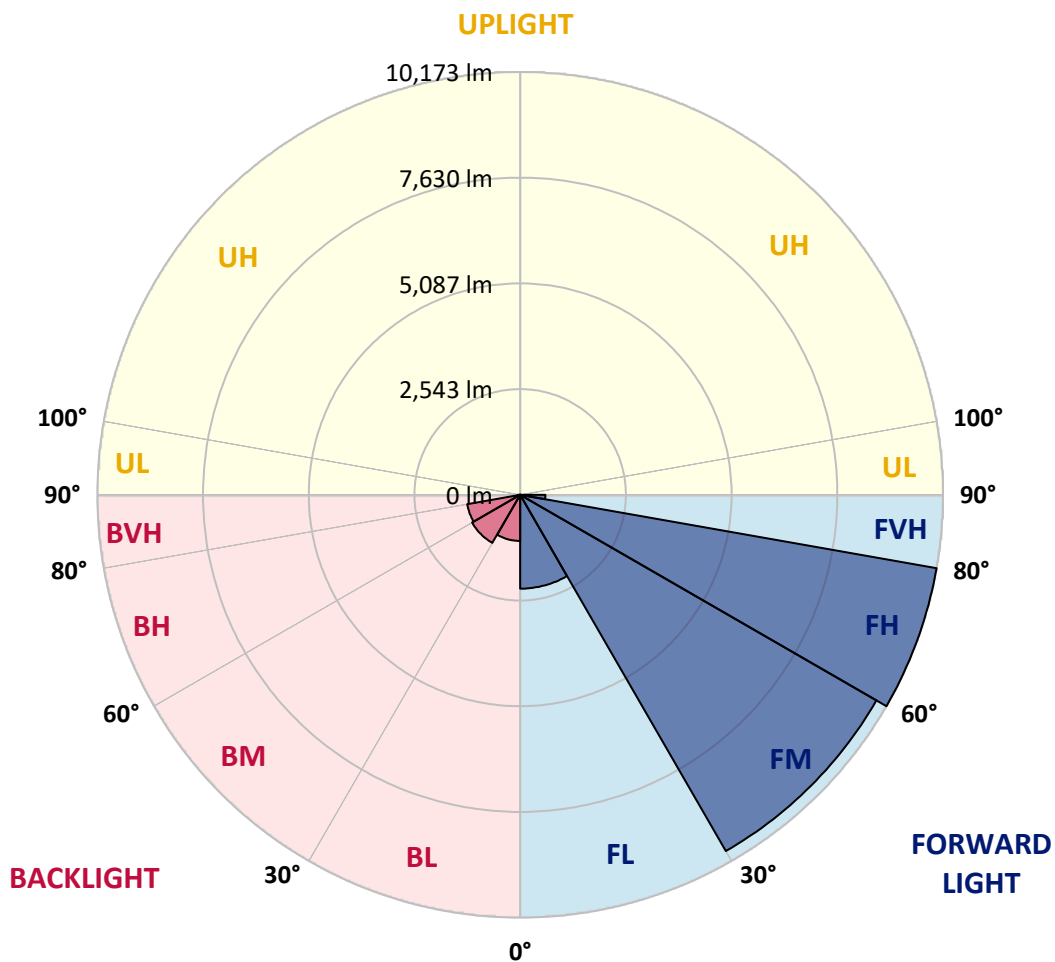
CATALOG NUMBER: GAA-AF-07-LED-U-SL3-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2257.6 | 8.4 | | | |
| FM | (30°-60°) | 9896.8 | 37.0 | | | |
| FH | (60°-80°) | 10173.2 | 38.0 | | | G4/12000 |
| FVH | (80°-90°) | 606.2 | 2.3 | | | G4/750 |
| BL | (0°-30°) | 1109.7 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 1336.4 | 5.0 | B2/2500 | | |
| BH | (60°-80°) | 1293.2 | 4.8 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 64.6 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6813.2 | 6813.2 | 6813.2 | 6813.2 | 6813.2 | 6813.2 | 6813.2 | 6813.2 | 6813.2 | 6813.2 | 6813.2 |
| 2.5° | 6952.7 | 6968.2 | 6961.7 | 6957.9 | 6969.5 | 6951.4 | 6914.0 | 6902.3 | 6884.2 | 6841.6 | 6769.3 |
| 5° | 6691.8 | 6738.3 | 6735.7 | 6770.6 | 6828.7 | 6844.2 | 6827.4 | 6830.0 | 6796.4 | 6743.5 | 6623.3 |
| 7.5° | 6241.0 | 6260.4 | 6270.7 | 6346.9 | 6452.9 | 6538.1 | 6610.4 | 6633.7 | 6618.2 | 6573.0 | 6418.0 |
| 10° | 5776.1 | 5791.6 | 5816.1 | 5905.2 | 6039.5 | 6157.1 | 6294.0 | 6372.8 | 6406.4 | 6398.6 | 6225.5 |
| 12.5° | 5376.9 | 5392.4 | 5424.7 | 5525.5 | 5685.6 | 5830.3 | 6029.2 | 6127.4 | 6207.4 | 6255.2 | 6069.2 |
| 15° | 5019.2 | 5052.8 | 5083.8 | 5200.0 | 5379.5 | 5569.4 | 5794.1 | 5918.1 | 6042.1 | 6149.3 | 5931.0 |
| 17.5° | 4740.2 | 4773.8 | 4791.8 | 4897.8 | 5088.9 | 5321.4 | 5584.9 | 5730.8 | 5885.8 | 6061.5 | 5794.1 |
| 20° | 4578.7 | 4594.2 | 4586.5 | 4645.9 | 4817.7 | 5064.4 | 5376.9 | 5546.1 | 5733.4 | 5978.8 | 5657.2 |
| 22.5° | 4533.5 | 4534.8 | 4506.4 | 4499.9 | 4611.0 | 4819.0 | 5154.8 | 5360.2 | 5590.1 | 5924.6 | 5539.7 |
| 25° | 4643.3 | 4639.4 | 4561.9 | 4498.7 | 4510.3 | 4631.7 | 4940.4 | 5179.3 | 5469.9 | 5913.0 | 5449.3 |
| 27.5° | 4887.4 | 4899.1 | 4784.1 | 4665.3 | 4547.7 | 4543.9 | 4777.6 | 5029.5 | 5371.8 | 5965.9 | 5410.5 |
| 30° | 5229.7 | 5249.1 | 5126.4 | 4975.3 | 4754.4 | 4572.3 | 4714.4 | 4940.4 | 5311.1 | 6075.7 | 5404.1 |
| 32.5° | 5604.3 | 5624.9 | 5531.9 | 5373.1 | 5083.8 | 4747.9 | 4758.3 | 4948.1 | 5308.5 | 6229.4 | 5448.0 |
| 35° | 6003.4 | 6026.6 | 5978.8 | 5844.5 | 5522.9 | 5072.1 | 4926.2 | 5073.4 | 5392.4 | 6464.5 | 5565.5 |
| 37.5° | 6449.0 | 6485.1 | 6498.1 | 6370.2 | 6026.6 | 5499.6 | 5201.3 | 5311.1 | 5582.3 | 6791.3 | 5781.2 |
| 40° | 7090.9 | 7141.3 | 7137.4 | 6954.0 | 6604.0 | 6077.0 | 5626.2 | 5654.6 | 5878.1 | 7227.8 | 6126.1 |
| 42.5° | 8320.5 | 8330.8 | 8009.2 | 7610.1 | 7239.4 | 6684.0 | 6127.4 | 6104.1 | 6286.2 | 7780.6 | 6633.7 |
| 45° | 9884.6 | 9842.0 | 9126.5 | 8355.4 | 7903.3 | 7381.5 | 6779.6 | 6666.0 | 6804.2 | 8454.8 | 7269.1 |
| 47.5° | 11182.7 | 11084.5 | 10180.4 | 9116.1 | 8606.0 | 8139.7 | 7545.5 | 7346.6 | 7422.8 | 9219.5 | 8090.6 |
| 50° | 11633.5 | 11559.9 | 10810.7 | 9749.0 | 9271.1 | 9064.5 | 8488.4 | 8206.8 | 8227.5 | 10131.3 | 9052.9 |
| 52.5° | 11536.6 | 11526.3 | 11026.4 | 10166.2 | 9893.7 | 10035.8 | 9823.9 | 9442.9 | 9241.4 | 11144.0 | 10091.3 |
| 55° | 11308.0 | 11329.9 | 11149.1 | 10651.9 | 10605.4 | 10973.5 | 11568.9 | 11287.3 | 10660.9 | 12165.6 | 11164.6 |
| 57.5° | 10513.7 | 10570.5 | 10968.3 | 11262.8 | 11751.0 | 12298.7 | 12974.2 | 12894.1 | 12188.9 | 13269.9 | 12440.7 |
| 60° | 8470.3 | 8602.1 | 9668.9 | 11144.0 | 12930.2 | 14642.9 | 14945.1 | 14759.2 | 13764.6 | 14640.3 | 14126.3 |
| 62.5° | 5934.9 | 6071.8 | 7340.2 | 9648.3 | 12736.5 | 17290.7 | 18468.6 | 17666.6 | 16027.5 | 16659.1 | 16307.8 |
| 65° | 3177.3 | 3243.2 | 4211.9 | 6694.4 | 10752.6 | 17837.0 | 23618.3 | 22397.7 | 19610.4 | 19148.0 | 18174.2 |
| 67.5° | 1752.7 | 1788.9 | 2159.6 | 3380.1 | 6886.8 | 15707.2 | 26898.9 | 27821.1 | 24088.4 | 20805.2 | 17834.5 |
| 69° | 1584.8 | 1618.4 | 1861.2 | 2560.0 | 4608.4 | 12987.1 | 26578.6 | 29250.9 | 26051.6 | 20641.1 | 16579.0 |
| 70° | 1549.9 | 1580.9 | 1799.2 | 2359.8 | 3730.2 | 10704.8 | 25505.3 | 28885.4 | 26519.2 | 20053.4 | 15483.7 |
| 72.5° | 1394.9 | 1428.5 | 1640.3 | 2119.5 | 3187.7 | 5336.9 | 20203.3 | 24422.9 | 24076.8 | 17387.6 | 11744.6 |
| 75° | 1300.6 | 1331.6 | 1690.7 | 2075.6 | 3052.1 | 3377.5 | 13319.0 | 17999.8 | 17698.8 | 12163.0 | 6332.7 |
| 77.5° | 556.7 | 554.1 | 784.0 | 1756.6 | 3097.3 | 3270.3 | 7156.8 | 11244.7 | 10259.2 | 5198.7 | 1818.6 |
| 80° | 372.0 | 365.5 | 372.0 | 516.6 | 2840.2 | 3288.4 | 3749.5 | 5707.6 | 4311.4 | 1325.2 | 896.4 |
| 82.5° | 320.3 | 315.2 | 326.8 | 315.2 | 998.4 | 3753.4 | 3187.7 | 3035.3 | 2049.8 | 753.0 | 444.3 |
| 85° | 215.7 | 206.7 | 281.6 | 282.9 | 471.4 | 3334.9 | 3590.7 | 2563.8 | 1658.4 | 446.9 | 219.6 |
| 87.5° | 103.3 | 100.7 | 164.0 | 200.2 | 276.4 | 1354.9 | 4028.5 | 2627.1 | 1672.6 | 228.6 | 104.6 |
| 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-SL3-7030-600

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6813.2 | 6813.2 | 6813.2 | 6813.2 | 6813.2 | 6813.2 | 6813.2 | 6813.2 | 6813.2 | 6813.2 | 6813.2 |
| 2.5° | 6747.3 | 6694.4 | 6642.7 | 6580.7 | 6516.1 | 6443.8 | 6407.6 | 6371.5 | 6362.4 | 6352.1 | 6315.9 |
| 5° | 6561.3 | 6486.4 | 6357.3 | 6215.2 | 6065.4 | 5919.4 | 5808.3 | 5738.6 | 5685.6 | 5658.5 | 5610.7 |
| 7.5° | 6321.1 | 6211.3 | 5985.3 | 5739.9 | 5488.0 | 5258.1 | 5059.2 | 4933.9 | 4815.1 | 4759.6 | 4696.3 |
| 10° | 6092.5 | 5928.5 | 5577.1 | 5215.5 | 4853.8 | 4506.4 | 4179.6 | 3948.4 | 3743.1 | 3628.1 | 3546.7 |
| 12.5° | 5896.2 | 5671.4 | 5184.5 | 4695.0 | 4199.0 | 3704.3 | 3214.8 | 2829.9 | 2508.3 | 2339.1 | 2252.6 |
| 15° | 5705.0 | 5433.8 | 4811.2 | 4190.0 | 3553.2 | 2880.3 | 2237.1 | 1800.5 | 1534.4 | 1428.5 | 1392.3 |
| 17.5° | 5531.9 | 5184.5 | 4436.7 | 3681.1 | 2886.7 | 2073.0 | 1503.4 | 1263.2 | 1161.2 | 1126.3 | 1114.7 |
| 20° | 5344.7 | 4932.6 | 4047.9 | 3148.9 | 2191.9 | 1449.2 | 1174.1 | 1068.2 | 1026.8 | 1016.5 | 1011.3 |
| 22.5° | 5163.8 | 4684.6 | 3675.9 | 2579.3 | 1574.5 | 1118.5 | 1008.7 | 964.8 | 958.4 | 967.4 | 967.4 |
| 25° | 5010.1 | 4462.5 | 3274.2 | 1983.9 | 1156.0 | 941.6 | 902.8 | 892.5 | 917.0 | 950.6 | 957.1 |
| 27.5° | 4895.2 | 4280.4 | 2846.7 | 1464.7 | 920.9 | 818.9 | 817.6 | 834.4 | 895.1 | 959.7 | 972.6 |
| 30° | 4816.4 | 4107.3 | 2389.5 | 1056.5 | 772.4 | 720.7 | 741.4 | 777.5 | 866.7 | 958.4 | 982.9 |
| 32.5° | 4776.4 | 3979.4 | 1912.9 | 817.6 | 661.3 | 632.9 | 667.8 | 711.7 | 799.5 | 884.7 | 917.0 |
| 35° | 4807.3 | 3885.1 | 1463.4 | 682.0 | 583.8 | 561.8 | 598.0 | 640.6 | 692.3 | 728.5 | 753.0 |
| 37.5° | 4923.6 | 3847.7 | 1104.3 | 610.9 | 530.8 | 510.2 | 538.6 | 563.1 | 583.8 | 594.1 | 605.8 |
| 40° | 5174.2 | 3887.7 | 884.7 | 574.8 | 501.1 | 475.3 | 486.9 | 496.0 | 508.9 | 519.2 | 524.4 |
| 42.5° | 5543.6 | 4007.8 | 793.0 | 560.6 | 485.6 | 448.2 | 445.6 | 449.5 | 466.3 | 485.6 | 489.5 |
| 45° | 6060.2 | 4219.7 | 786.6 | 569.6 | 477.9 | 426.2 | 414.6 | 419.8 | 445.6 | 475.3 | 480.5 |
| 47.5° | 6720.2 | 4542.6 | 838.3 | 596.7 | 484.4 | 414.6 | 395.2 | 401.7 | 434.0 | 474.0 | 480.5 |
| 50° | 7519.7 | 4993.3 | 924.8 | 636.8 | 512.8 | 417.2 | 388.8 | 392.6 | 426.2 | 470.1 | 476.6 |
| 52.5° | 8463.9 | 5632.7 | 1019.1 | 675.5 | 542.5 | 434.0 | 393.9 | 384.9 | 415.9 | 454.6 | 462.4 |
| 55° | 9514.0 | 6452.9 | 1115.9 | 710.4 | 558.0 | 454.6 | 404.3 | 374.6 | 396.5 | 428.8 | 435.3 |
| 57.5° | 10803.0 | 7599.8 | 1283.9 | 744.0 | 568.3 | 468.9 | 414.6 | 364.2 | 372.0 | 395.2 | 400.4 |
| 60° | 12547.9 | 9222.1 | 1579.6 | 799.5 | 591.6 | 474.0 | 413.3 | 355.2 | 347.4 | 360.4 | 362.9 |
| 62.5° | 14639.0 | 10983.8 | 1826.3 | 869.2 | 630.3 | 477.9 | 405.6 | 348.7 | 326.8 | 326.8 | 329.4 |
| 65° | 15880.3 | 11455.2 | 1689.4 | 927.4 | 662.6 | 474.0 | 396.5 | 342.3 | 311.3 | 297.1 | 298.4 |
| 67.5° | 14827.6 | 10074.5 | 1447.9 | 939.0 | 661.3 | 455.9 | 382.3 | 330.7 | 295.8 | 273.8 | 272.5 |
| 69° | 13508.9 | 8692.5 | 1339.4 | 908.0 | 630.3 | 432.7 | 364.2 | 317.7 | 284.2 | 260.9 | 259.6 |
| 70° | 12445.9 | 7849.1 | 1268.4 | 874.4 | 596.7 | 415.9 | 350.0 | 306.1 | 275.1 | 253.2 | 250.6 |
| 72.5° | 9049.0 | 5143.2 | 1083.7 | 751.7 | 492.1 | 348.7 | 302.2 | 268.7 | 245.4 | 232.5 | 229.9 |
| 75° | 4521.9 | 2452.8 | 879.6 | 609.6 | 377.1 | 279.0 | 248.0 | 224.7 | 213.1 | 210.5 | 209.2 |
| 77.5° | 1485.3 | 1123.7 | 629.0 | 454.6 | 280.3 | 218.3 | 200.2 | 183.4 | 180.8 | 188.6 | 186.0 |
| 80° | 816.3 | 653.6 | 399.1 | 300.9 | 191.2 | 160.2 | 157.6 | 148.5 | 152.4 | 165.3 | 162.7 |
| 82.5° | 415.9 | 339.7 | 246.7 | 180.8 | 129.2 | 115.0 | 125.3 | 120.1 | 125.3 | 136.9 | 135.6 |
| 85° | 205.4 | 186.0 | 156.3 | 109.8 | 85.2 | 73.6 | 89.1 | 93.0 | 95.6 | 104.6 | 104.6 |
| 87.5° | 118.8 | 109.8 | 82.7 | 51.7 | 42.6 | 38.7 | 51.7 | 50.4 | 59.4 | 64.6 | 63.3 |
| 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)