

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: P299398

Luminaire Tested: **GAA-AF-01-LED-U-SLR-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-01-LED-U-SLR-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4410.3 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

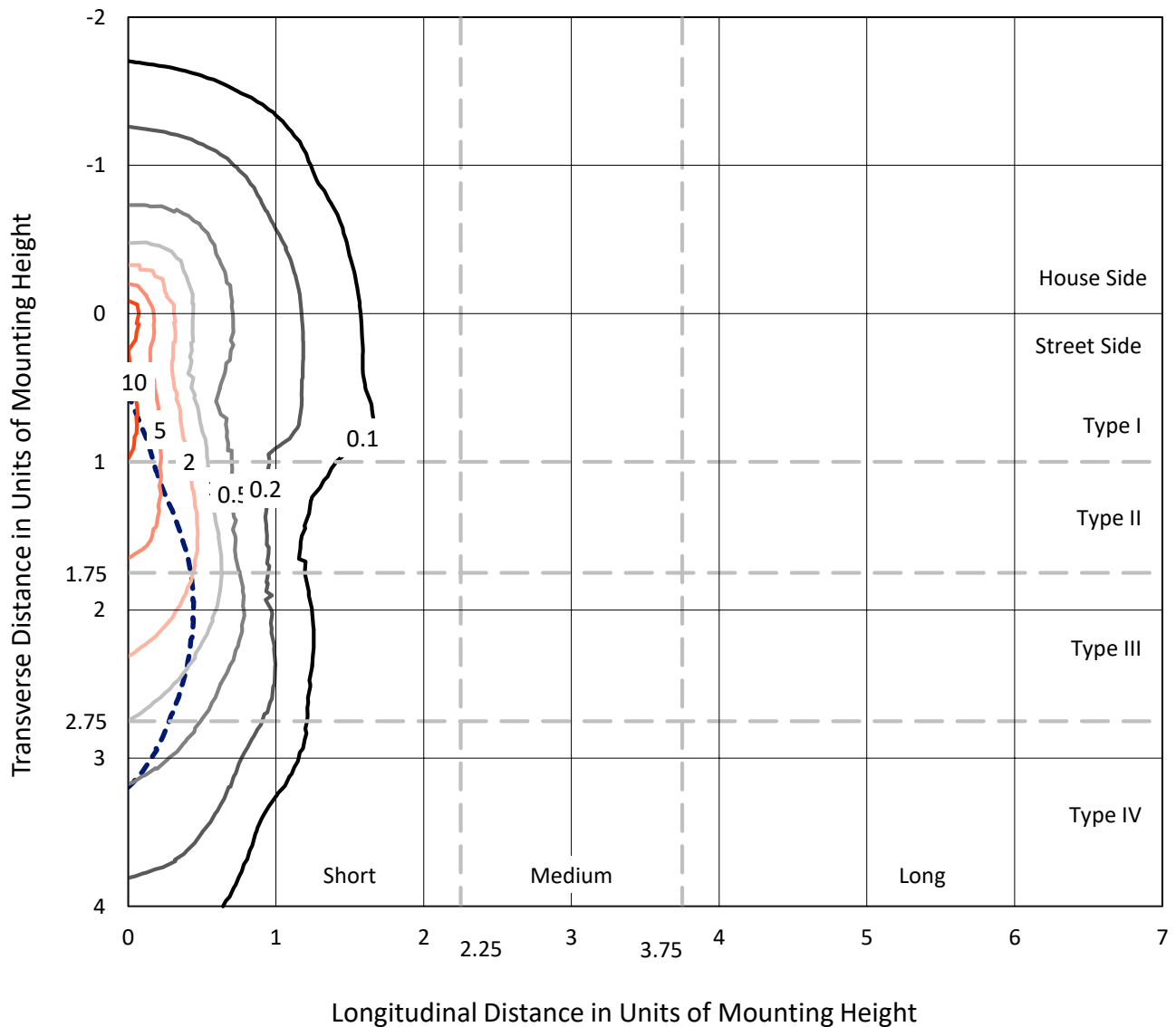


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

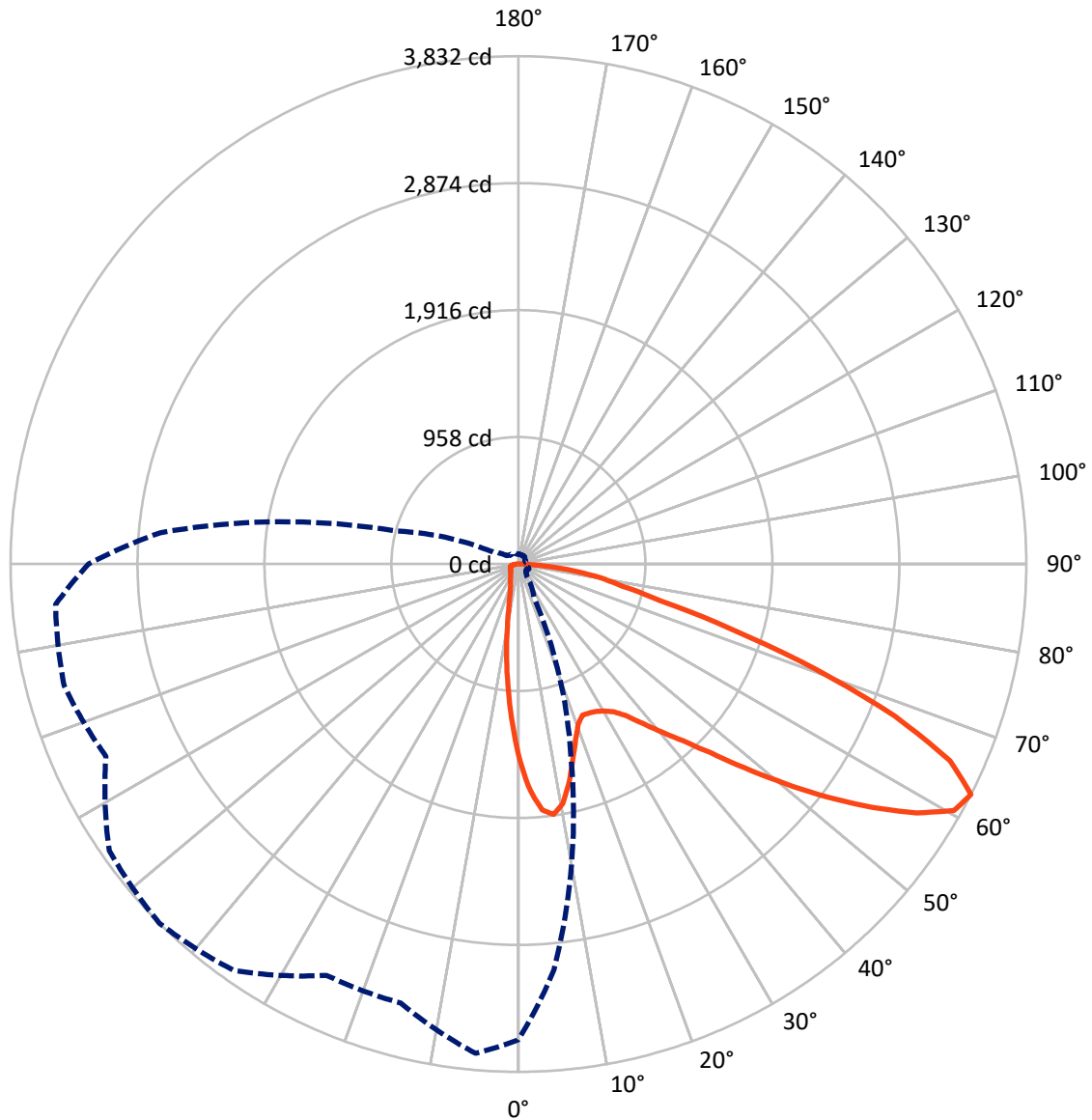


Based on 10 foot mounting height. Maximum calculated value = 14.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 729.8 | 0.0 | 729.8 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 3680.5 | 0.0 | 3680.5 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 4410.3 | 0.0 | 4410.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.5 | 2.5 |
| 10°-20° | 198.9 | 4.5 |
| 20°-30° | 290.0 | 6.6 |
| 30°-40° | 446.6 | 10.1 |
| 40°-50° | 657.3 | 14.9 |
| 50°-60° | 964.2 | 21.9 |
| 60°-70° | 1077.8 | 24.4 |
| 70°-80° | 527.7 | 12.0 |
| 80°-90° | 139.3 | 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° | 4410.3 | 100.0 |
| 0°-180° | 4410.3 | 100.0 |



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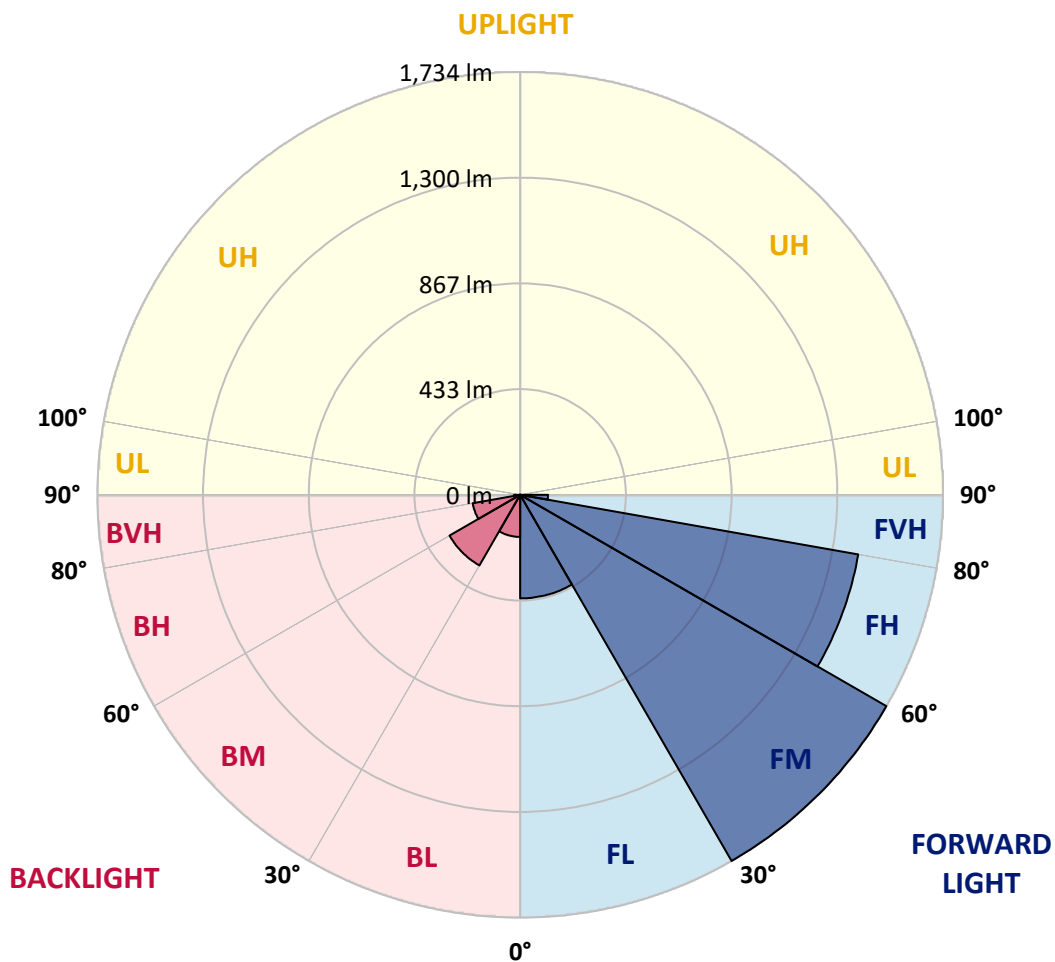
CATALOG NUMBER: GAA-AF-01-LED-U-SLR-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 424.7 | 9.6 | | | |
| FM (30°-60°) | 1733.7 | 39.3 | | | |
| FH (60°-80°) | 1407.6 | 31.9 | | | G1/1800 |
| FVH (80°-90°) | 114.4 | 2.6 | | | G2/225 |
| BL (0°-30°) | 172.7 | 3.9 | B1/500 | | |
| BM (30°-60°) | 334.4 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 197.9 | 4.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 24.9 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 |
| 2.5° | 1548.2 | 1516.7 | 1464.3 | 1409.8 | 1376.6 | 1337.8 | 1307.5 | 1280.8 | 1227.5 | 1217.0 | 1226.5 |
| 5° | 1455.9 | 1392.6 | 1293.9 | 1194.5 | 1128.3 | 1057.3 | 1002.0 | 957.7 | 890.0 | 878.1 | 892.4 |
| 7.5° | 1307.8 | 1232.1 | 1101.7 | 974.8 | 881.3 | 792.5 | 732.9 | 685.4 | 632.5 | 609.8 | 611.2 |
| 10° | 1180.0 | 1094.6 | 940.4 | 802.5 | 725.9 | 666.0 | 615.8 | 567.0 | 513.5 | 478.3 | 468.6 |
| 12.5° | 1108.4 | 1010.3 | 832.5 | 709.4 | 638.3 | 575.3 | 521.3 | 469.1 | 411.9 | 376.0 | 365.9 |
| 15° | 1096.1 | 989.4 | 792.1 | 649.8 | 560.7 | 481.0 | 417.3 | 359.0 | 300.1 | 271.0 | 265.0 |
| 17.5° | 1149.7 | 1026.7 | 778.9 | 596.6 | 487.8 | 389.4 | 311.0 | 246.1 | 198.1 | 183.6 | 182.3 |
| 20° | 1252.4 | 1098.5 | 777.3 | 546.7 | 415.8 | 300.4 | 216.7 | 169.5 | 148.4 | 144.2 | 144.5 |
| 22.5° | 1396.7 | 1209.8 | 798.1 | 509.1 | 349.6 | 224.0 | 162.9 | 141.8 | 133.6 | 129.7 | 129.7 |
| 25° | 1583.3 | 1363.0 | 846.1 | 481.8 | 292.1 | 178.9 | 143.8 | 131.2 | 123.4 | 120.7 | 121.2 |
| 27.5° | 1764.3 | 1512.1 | 901.9 | 460.2 | 254.5 | 162.4 | 136.2 | 124.8 | 118.1 | 115.4 | 116.6 |
| 30° | 1905.3 | 1644.5 | 948.4 | 430.8 | 235.4 | 157.8 | 138.9 | 127.3 | 117.6 | 113.5 | 113.7 |
| 32.5° | 2022.2 | 1760.4 | 987.5 | 409.7 | 218.4 | 135.3 | 119.8 | 114.6 | 113.5 | 108.6 | 106.2 |
| 35° | 2171.5 | 1886.7 | 1013.7 | 410.2 | 210.4 | 120.7 | 106.6 | 97.7 | 91.2 | 85.6 | 85.6 |
| 37.5° | 2346.6 | 2031.6 | 1041.5 | 415.8 | 207.6 | 112.2 | 102.1 | 93.1 | 87.0 | 81.7 | 80.7 |
| 40° | 2519.6 | 2173.7 | 1067.0 | 421.1 | 205.8 | 107.2 | 98.4 | 90.2 | 84.6 | 79.3 | 77.8 |
| 42.5° | 2666.9 | 2290.6 | 1089.8 | 423.8 | 200.0 | 106.6 | 95.8 | 88.2 | 82.9 | 77.1 | 75.7 |
| 45° | 2775.7 | 2388.5 | 1114.3 | 427.9 | 194.2 | 108.6 | 95.8 | 88.0 | 81.5 | 75.9 | 74.4 |
| 47.5° | 2872.9 | 2503.4 | 1155.2 | 427.9 | 187.2 | 105.0 | 98.9 | 88.2 | 81.2 | 75.4 | 74.2 |
| 50° | 3003.1 | 2661.0 | 1232.8 | 418.0 | 177.2 | 101.1 | 104.2 | 87.3 | 79.0 | 74.4 | 73.0 |
| 52.5° | 3182.5 | 2863.0 | 1356.0 | 400.7 | 162.0 | 93.6 | 103.5 | 86.8 | 76.8 | 72.0 | 70.3 |
| 55° | 3394.7 | 3079.2 | 1490.3 | 380.6 | 139.2 | 88.2 | 99.9 | 85.6 | 74.4 | 69.1 | 67.4 |
| 57.5° | 3560.2 | 3228.1 | 1584.8 | 349.6 | 119.3 | 85.4 | 88.5 | 84.4 | 71.5 | 65.9 | 64.5 |
| 60° | 3626.1 | 3222.3 | 1610.8 | 308.1 | 109.6 | 82.9 | 77.4 | 94.5 | 69.1 | 63.5 | 61.8 |
| 62.5° | 3590.6 | 3073.4 | 1538.1 | 279.0 | 107.4 | 79.8 | 72.5 | 87.5 | 67.2 | 61.8 | 59.4 |
| 65° | 3425.9 | 2809.6 | 1345.3 | 271.3 | 113.7 | 76.6 | 69.4 | 68.6 | 64.5 | 59.4 | 57.0 |
| 67.5° | 3067.3 | 2415.4 | 1077.1 | 272.0 | 121.7 | 73.5 | 66.2 | 62.8 | 60.8 | 56.7 | 54.5 |
| 70° | 2498.4 | 1909.7 | 802.9 | 274.0 | 125.8 | 69.8 | 62.8 | 59.2 | 57.0 | 52.8 | 51.4 |
| 72.5° | 1837.0 | 1471.9 | 583.3 | 261.4 | 126.5 | 65.7 | 58.2 | 55.0 | 52.8 | 48.5 | 47.3 |
| 75° | 1256.8 | 1125.9 | 404.6 | 216.5 | 110.3 | 59.9 | 53.1 | 50.2 | 48.7 | 43.4 | 42.6 |
| 77.5° | 918.1 | 845.1 | 258.9 | 160.7 | 85.1 | 52.6 | 46.8 | 44.6 | 43.7 | 37.8 | 36.8 |
| 80° | 736.8 | 668.6 | 162.0 | 110.1 | 62.3 | 44.1 | 39.3 | 38.1 | 37.1 | 31.3 | 30.5 |
| 82.5° | 511.0 | 447.8 | 104.0 | 71.5 | 46.8 | 34.2 | 31.0 | 30.5 | 29.1 | 23.8 | 23.0 |
| 85° | 269.6 | 243.2 | 65.9 | 48.7 | 33.9 | 23.5 | 21.6 | 21.6 | 20.8 | 15.8 | 15.3 |
| 87.5° | 34.4 | 56.0 | 33.5 | 25.5 | 18.6 | 10.4 | 10.4 | 10.2 | 10.9 | 9.0 | 7.8 |
| 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-01-LED-U-SLR-800

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 |
| 2.5° | 1204.2 | 1215.9 | 1204.7 | 1205.4 | 1217.8 | 1254.6 | 1271.3 | 1285.1 | 1300.0 | 1309.7 | 1314.0 |
| 5° | 872.8 | 900.0 | 909.1 | 928.5 | 957.1 | 1004.2 | 1022.8 | 1036.4 | 1045.4 | 1050.7 | 1052.9 |
| 7.5° | 596.9 | 613.4 | 631.8 | 663.0 | 725.4 | 753.0 | 765.4 | 762.2 | 752.1 | 748.4 | 744.8 |
| 10° | 450.0 | 443.5 | 440.0 | 457.3 | 507.7 | 535.6 | 544.3 | 535.8 | 530.2 | 531.5 | 537.5 |
| 12.5° | 348.6 | 337.2 | 323.5 | 321.5 | 354.7 | 379.7 | 385.2 | 385.7 | 395.9 | 404.8 | 418.2 |
| 15° | 254.1 | 252.8 | 246.1 | 242.0 | 260.8 | 281.2 | 283.7 | 288.0 | 297.2 | 303.8 | 315.4 |
| 17.5° | 179.2 | 185.7 | 191.0 | 193.7 | 208.0 | 222.5 | 219.9 | 217.7 | 216.0 | 216.0 | 221.6 |
| 20° | 144.5 | 148.8 | 155.7 | 163.4 | 178.0 | 188.1 | 181.6 | 172.8 | 166.5 | 164.6 | 165.4 |
| 22.5° | 130.2 | 133.6 | 137.5 | 144.2 | 157.4 | 164.4 | 157.4 | 151.0 | 144.7 | 142.5 | 141.8 |
| 25° | 122.9 | 127.3 | 130.9 | 136.0 | 145.7 | 150.5 | 143.8 | 139.2 | 135.3 | 132.6 | 130.6 |
| 27.5° | 118.8 | 122.6 | 123.7 | 126.1 | 134.3 | 138.6 | 135.3 | 133.4 | 130.9 | 128.5 | 126.1 |
| 30° | 114.4 | 113.7 | 112.0 | 112.2 | 118.8 | 123.2 | 122.9 | 123.4 | 123.2 | 122.4 | 122.0 |
| 32.5° | 104.5 | 103.0 | 101.6 | 103.0 | 109.1 | 113.0 | 113.2 | 114.2 | 114.2 | 114.0 | 115.9 |
| 35° | 87.0 | 89.7 | 91.4 | 95.8 | 103.0 | 106.4 | 105.0 | 102.5 | 98.2 | 95.5 | 95.3 |
| 37.5° | 80.5 | 81.0 | 83.9 | 89.9 | 98.0 | 101.1 | 98.9 | 93.4 | 90.4 | 89.9 | 90.6 |
| 40° | 77.4 | 77.8 | 79.5 | 85.1 | 93.1 | 96.2 | 94.3 | 90.2 | 87.5 | 87.3 | 88.5 |
| 42.5° | 75.2 | 75.7 | 76.6 | 80.5 | 87.0 | 90.9 | 91.2 | 88.2 | 85.1 | 85.4 | 86.5 |
| 45° | 73.9 | 74.2 | 73.9 | 75.9 | 81.9 | 86.5 | 88.5 | 86.5 | 83.9 | 84.4 | 85.8 |
| 47.5° | 73.7 | 73.0 | 72.0 | 72.5 | 78.8 | 83.4 | 85.8 | 85.1 | 83.9 | 84.4 | 85.6 |
| 50° | 72.7 | 71.0 | 69.8 | 69.6 | 75.9 | 80.7 | 82.9 | 82.9 | 83.4 | 84.4 | 85.6 |
| 52.5° | 69.8 | 67.9 | 67.9 | 67.2 | 73.9 | 78.5 | 80.0 | 80.2 | 81.0 | 82.6 | 84.4 |
| 55° | 66.2 | 65.5 | 66.2 | 65.0 | 72.5 | 76.8 | 77.6 | 78.1 | 78.5 | 80.0 | 82.4 |
| 57.5° | 63.0 | 62.1 | 63.8 | 63.3 | 71.3 | 75.2 | 75.2 | 76.1 | 76.1 | 78.1 | 80.0 |
| 60° | 61.4 | 59.4 | 60.1 | 60.6 | 69.6 | 73.7 | 73.2 | 74.2 | 74.6 | 76.4 | 77.8 |
| 62.5° | 59.2 | 57.5 | 57.5 | 58.6 | 67.7 | 71.5 | 71.3 | 72.0 | 73.9 | 74.4 | 75.9 |
| 65° | 56.5 | 55.8 | 55.0 | 56.5 | 65.7 | 69.1 | 69.4 | 70.3 | 72.0 | 72.5 | 73.7 |
| 67.5° | 53.8 | 54.1 | 52.6 | 54.1 | 64.0 | 66.6 | 66.6 | 68.6 | 69.4 | 70.3 | 71.5 |
| 70° | 50.9 | 51.2 | 49.9 | 51.7 | 62.8 | 64.0 | 63.8 | 66.4 | 66.9 | 67.7 | 68.8 |
| 72.5° | 47.3 | 47.3 | 46.8 | 49.2 | 60.8 | 61.4 | 60.8 | 63.0 | 63.3 | 64.0 | 64.5 |
| 75° | 43.4 | 43.4 | 42.9 | 46.3 | 59.7 | 58.4 | 57.0 | 58.6 | 59.2 | 59.7 | 59.7 |
| 77.5° | 38.3 | 38.8 | 38.8 | 42.9 | 55.5 | 57.2 | 52.3 | 53.4 | 54.1 | 54.3 | 53.6 |
| 80° | 32.0 | 33.2 | 33.7 | 39.0 | 46.5 | 52.8 | 46.8 | 47.5 | 47.8 | 47.8 | 46.8 |
| 82.5° | 24.5 | 26.6 | 27.9 | 33.7 | 35.7 | 44.3 | 40.7 | 41.5 | 40.7 | 39.3 | 38.8 |
| 85° | 17.0 | 19.9 | 21.4 | 25.7 | 26.9 | 34.2 | 33.9 | 33.9 | 32.5 | 30.5 | 30.3 |
| 87.5° | 9.2 | 10.9 | 11.9 | 15.3 | 18.4 | 23.0 | 25.0 | 24.2 | 23.0 | 21.8 | 22.1 |
| 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-01-LED-U-SLR-800

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 | 1490.1 |
| 2.5° | 1336.8 | 1369.8 | 1422.4 | 1462.6 | 1503.1 | 1542.2 | 1584.4 | 1616.6 | 1644.0 | 1654.7 | 1687.1 |
| 5° | 1075.0 | 1116.2 | 1165.9 | 1255.6 | 1319.1 | 1389.1 | 1470.2 | 1577.3 | 1618.5 | 1675.5 | 1768.8 |
| 7.5° | 760.1 | 797.4 | 877.4 | 949.9 | 1039.9 | 1139.0 | 1248.3 | 1396.2 | 1450.3 | 1541.7 | 1693.7 |
| 10° | 567.6 | 610.9 | 675.2 | 736.3 | 815.6 | 916.9 | 1042.5 | 1207.9 | 1273.5 | 1372.7 | 1547.8 |
| 12.5° | 457.3 | 508.4 | 576.5 | 634.0 | 695.3 | 766.8 | 888.8 | 1070.1 | 1158.2 | 1244.9 | 1421.9 |
| 15° | 351.3 | 404.8 | 468.2 | 541.1 | 608.7 | 685.9 | 813.7 | 1012.0 | 1113.3 | 1203.8 | 1354.7 |
| 17.5° | 243.2 | 289.0 | 368.7 | 444.8 | 531.5 | 630.1 | 792.8 | 1024.3 | 1145.3 | 1249.5 | 1366.4 |
| 20° | 172.4 | 198.5 | 264.0 | 352.3 | 460.2 | 584.0 | 788.9 | 1089.3 | 1246.6 | 1365.7 | 1441.0 |
| 22.5° | 145.0 | 154.6 | 192.7 | 273.7 | 398.3 | 549.6 | 802.5 | 1180.4 | 1383.3 | 1535.3 | 1560.1 |
| 25° | 132.1 | 138.0 | 157.8 | 214.8 | 343.3 | 524.6 | 848.3 | 1316.2 | 1552.6 | 1705.1 | 1700.7 |
| 27.5° | 125.1 | 131.2 | 144.2 | 181.4 | 301.9 | 509.1 | 894.1 | 1477.2 | 1746.1 | 1889.3 | 1835.0 |
| 30° | 122.9 | 131.2 | 145.0 | 170.9 | 272.3 | 484.6 | 931.7 | 1618.5 | 1894.9 | 2013.7 | 1896.2 |
| 32.5° | 121.2 | 122.4 | 128.7 | 147.4 | 244.1 | 456.0 | 957.1 | 1745.3 | 2040.6 | 2132.0 | 1984.2 |
| 35° | 98.0 | 104.0 | 114.2 | 132.1 | 227.7 | 438.8 | 957.1 | 1854.7 | 2184.2 | 2251.5 | 2068.0 |
| 37.5° | 94.3 | 99.7 | 108.6 | 123.9 | 218.4 | 430.3 | 938.0 | 1960.2 | 2330.8 | 2387.1 | 2137.1 |
| 40° | 92.4 | 96.7 | 105.2 | 117.6 | 214.5 | 420.6 | 910.1 | 2053.2 | 2474.1 | 2522.8 | 2201.6 |
| 42.5° | 90.9 | 94.8 | 102.8 | 113.7 | 209.5 | 410.0 | 887.6 | 2127.9 | 2598.5 | 2638.7 | 2263.2 |
| 45° | 90.2 | 94.3 | 103.0 | 115.7 | 199.3 | 395.9 | 880.1 | 2208.6 | 2700.8 | 2735.4 | 2329.8 |
| 47.5° | 90.2 | 95.0 | 104.2 | 119.8 | 187.2 | 381.4 | 903.6 | 2315.1 | 2797.5 | 2814.5 | 2408.4 |
| 50° | 89.5 | 94.8 | 107.7 | 115.7 | 169.5 | 362.9 | 958.8 | 2449.1 | 2902.3 | 2904.2 | 2507.8 |
| 52.5° | 88.0 | 94.3 | 115.9 | 113.2 | 149.1 | 338.7 | 1033.5 | 2621.3 | 3057.2 | 3068.8 | 2663.4 |
| 55° | 86.3 | 93.6 | 113.7 | 107.7 | 132.4 | 309.9 | 1094.6 | 2830.5 | 3274.9 | 3307.1 | 2892.3 |
| 57.5° | 84.1 | 92.6 | 110.1 | 99.9 | 121.5 | 272.7 | 1116.7 | 2983.7 | 3426.9 | 3507.8 | 3150.3 |
| 60° | 82.2 | 91.9 | 99.4 | 95.3 | 114.6 | 241.5 | 1074.0 | 2953.4 | 3416.5 | 3591.0 | 3378.9 |
| 62.5° | 80.2 | 92.6 | 90.6 | 92.4 | 111.5 | 221.4 | 962.5 | 2710.7 | 3243.6 | 3505.2 | 3548.4 |
| 65° | 78.1 | 86.1 | 85.6 | 89.9 | 110.8 | 213.4 | 797.9 | 2346.8 | 2909.5 | 3233.9 | 3588.4 |
| 67.5° | 75.2 | 79.5 | 81.9 | 86.8 | 113.2 | 206.3 | 643.9 | 1935.9 | 2445.2 | 2827.3 | 3379.8 |
| 70° | 72.0 | 75.7 | 78.3 | 82.9 | 111.8 | 203.2 | 535.6 | 1526.6 | 1940.3 | 2317.2 | 2968.5 |
| 72.5° | 67.9 | 71.0 | 73.5 | 77.8 | 110.3 | 201.5 | 452.4 | 1229.4 | 1448.6 | 1721.3 | 2413.5 |
| 75° | 63.0 | 65.9 | 67.7 | 72.0 | 105.7 | 184.5 | 355.7 | 1040.3 | 1084.0 | 1197.4 | 1922.3 |
| 77.5° | 57.5 | 59.7 | 61.1 | 65.9 | 93.6 | 153.5 | 257.2 | 802.5 | 841.8 | 869.4 | 1473.8 |
| 80° | 50.9 | 53.1 | 53.8 | 58.4 | 77.6 | 120.0 | 167.8 | 592.7 | 629.6 | 635.9 | 962.5 |
| 82.5° | 43.4 | 45.6 | 45.6 | 49.9 | 63.5 | 86.3 | 110.1 | 406.1 | 413.4 | 434.7 | 680.3 |
| 85° | 34.9 | 36.6 | 36.6 | 38.8 | 49.2 | 64.5 | 75.7 | 203.9 | 201.7 | 230.3 | 589.4 |
| 87.5° | 25.0 | 26.2 | 27.4 | 27.9 | 35.2 | 42.6 | 45.6 | 62.1 | 41.0 | 47.0 | 378.4 |
| 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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| 52.5° | 2587.3 | 2811.1 | 2923.1 | 2900.1 | 2650.1 | 2640.4 | 3095.9 | 3182.5 |
| 55° | 2813.5 | 3130.7 | 3241.9 | 3225.4 | 2832.7 | 2815.4 | 3344.2 | 3394.7 |
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| 62.5° | 3433.4 | 3768.8 | 3831.8 | 3743.3 | 3424.5 | 3429.5 | 3705.9 | 3590.6 |
| 65° | 3376.2 | 3558.6 | 3578.9 | 3571.6 | 3385.4 | 3555.8 | 3604.9 | 3425.9 |
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| 75° | 1340.9 | 1099.2 | 1106.0 | 1103.3 | 1248.8 | 1830.4 | 1625.1 | 1256.8 |
| 77.5° | 938.2 | 796.4 | 800.1 | 815.1 | 839.6 | 1380.5 | 1161.0 | 918.1 |
| 80° | 645.1 | 604.4 | 624.5 | 625.8 | 581.9 | 927.3 | 857.8 | 736.8 |
| 82.5° | 480.5 | 420.1 | 415.3 | 422.3 | 456.0 | 751.3 | 659.2 | 511.0 |
| 85° | 393.5 | 248.7 | 200.0 | 250.7 | 404.1 | 744.1 | 437.9 | 269.6 |
| 87.5° | 221.6 | 118.1 | 53.4 | 98.9 | 161.2 | 492.6 | 126.5 | 34.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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