

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: P194677

Luminaire Tested: **GAN-AF-09-LED-U-SLR-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SLR-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46765 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 501
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

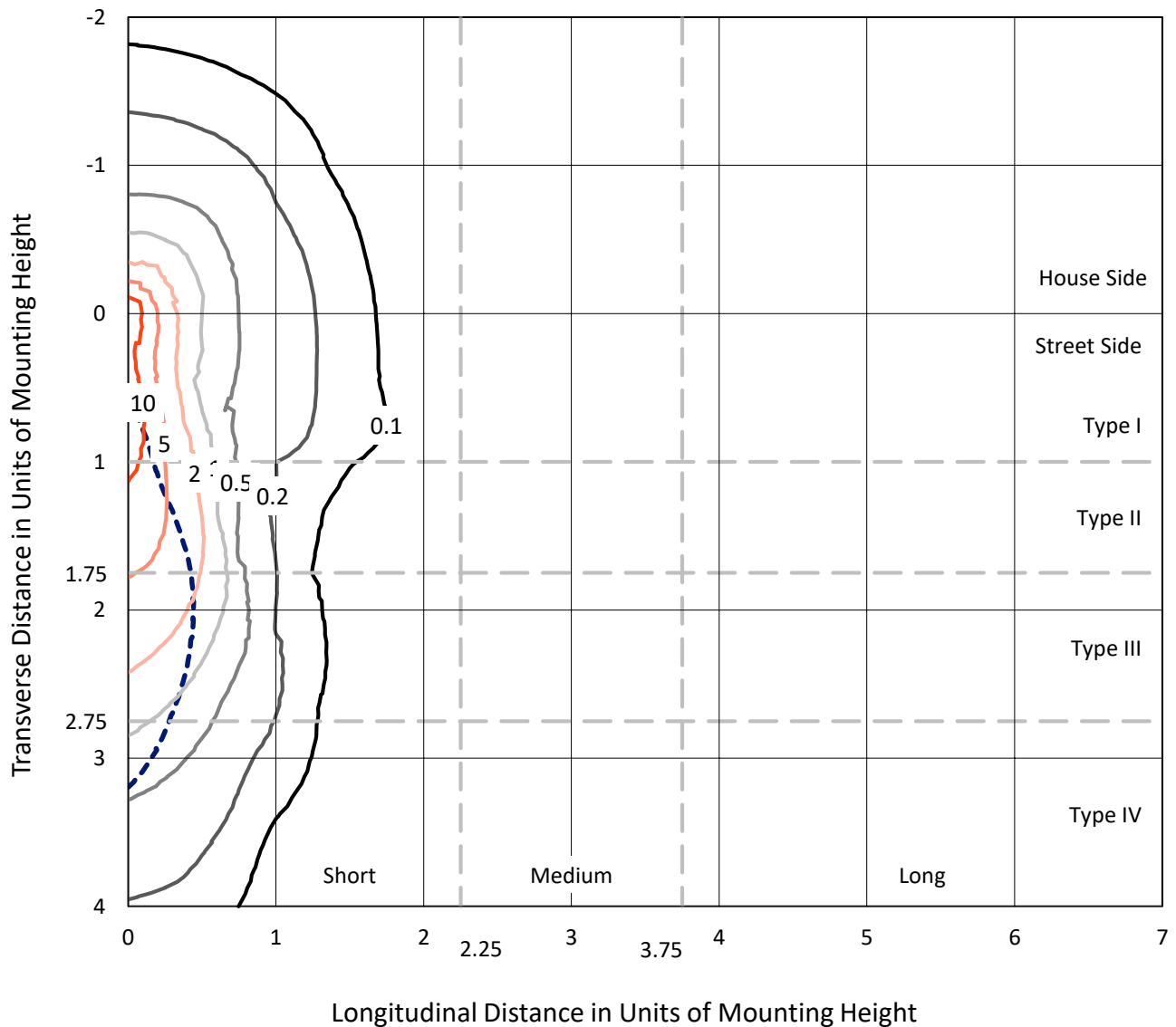




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 CATALOG NUMBER: GAN-AF-09-LED-U-SLR-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

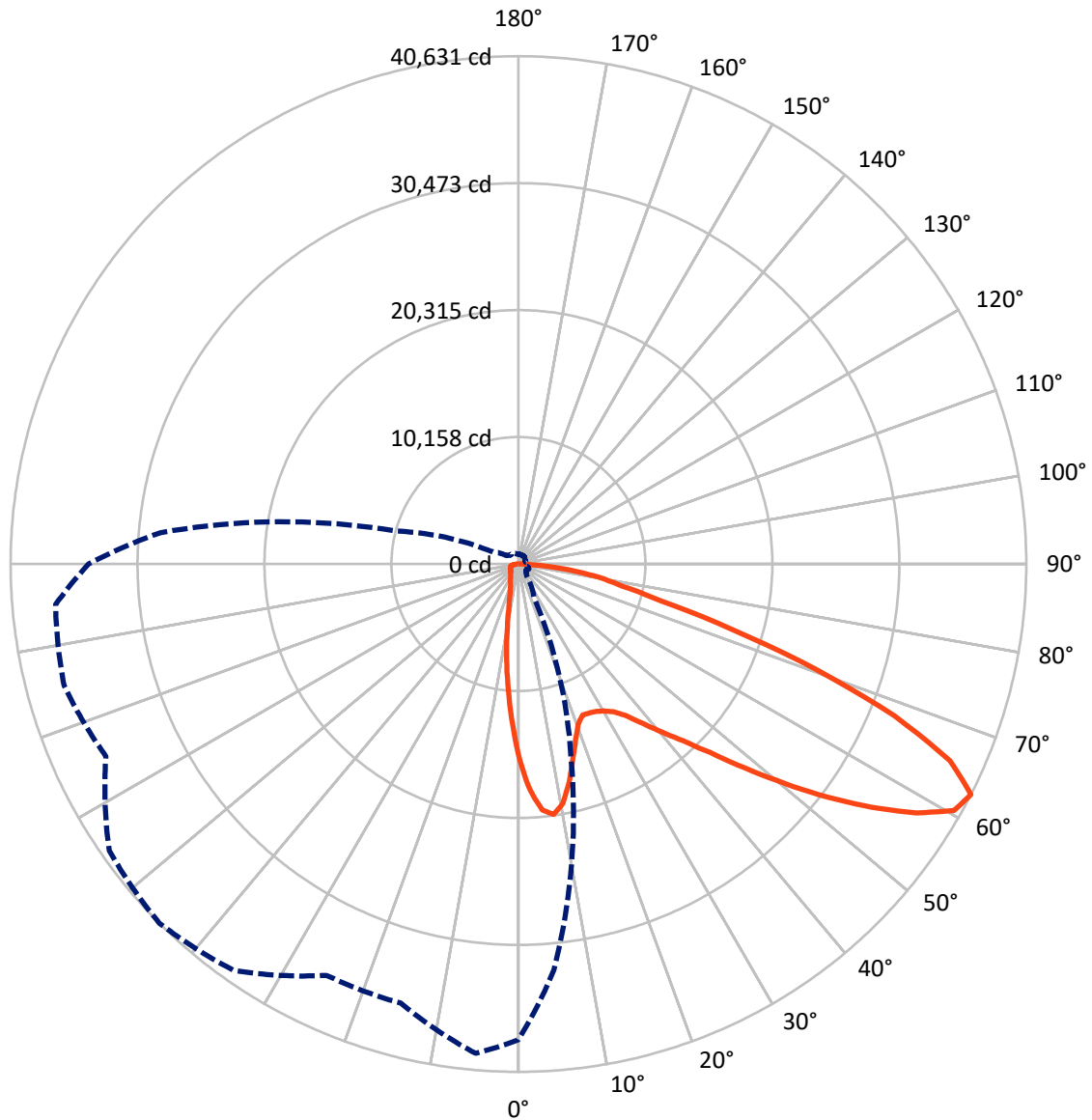


Based on 30 foot mounting height. Maximum calculated value = 17.6 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P194677

CATALOG NUMBER: GAN-AF-09-LED-U-SLR-7060

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 | 7739.0 | 0.0 | 7739.0 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 39026.0 | 0.0 | 39026.0 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 46765.0 | 0.0 | 46765.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1150.2 | 2.5 |
| 10°-20° | 2109.1 | 4.5 |
| 20°-30° | 3075.0 | 6.6 |
| 30°-40° | 4736.0 | 10.1 |
| 40°-50° | 6970.1 | 14.9 |
| 50°-60° | 10223.6 | 21.9 |
| 60°-70° | 11428.5 | 24.4 |
| 70°-80° | 5595.3 | 12.0 |
| 80°-90° | 1477.3 | 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° | 46765.0 | 100.0 |
| 0°-180° | 46765.0 | 100.0 |



REPORT NUMBER: P194677

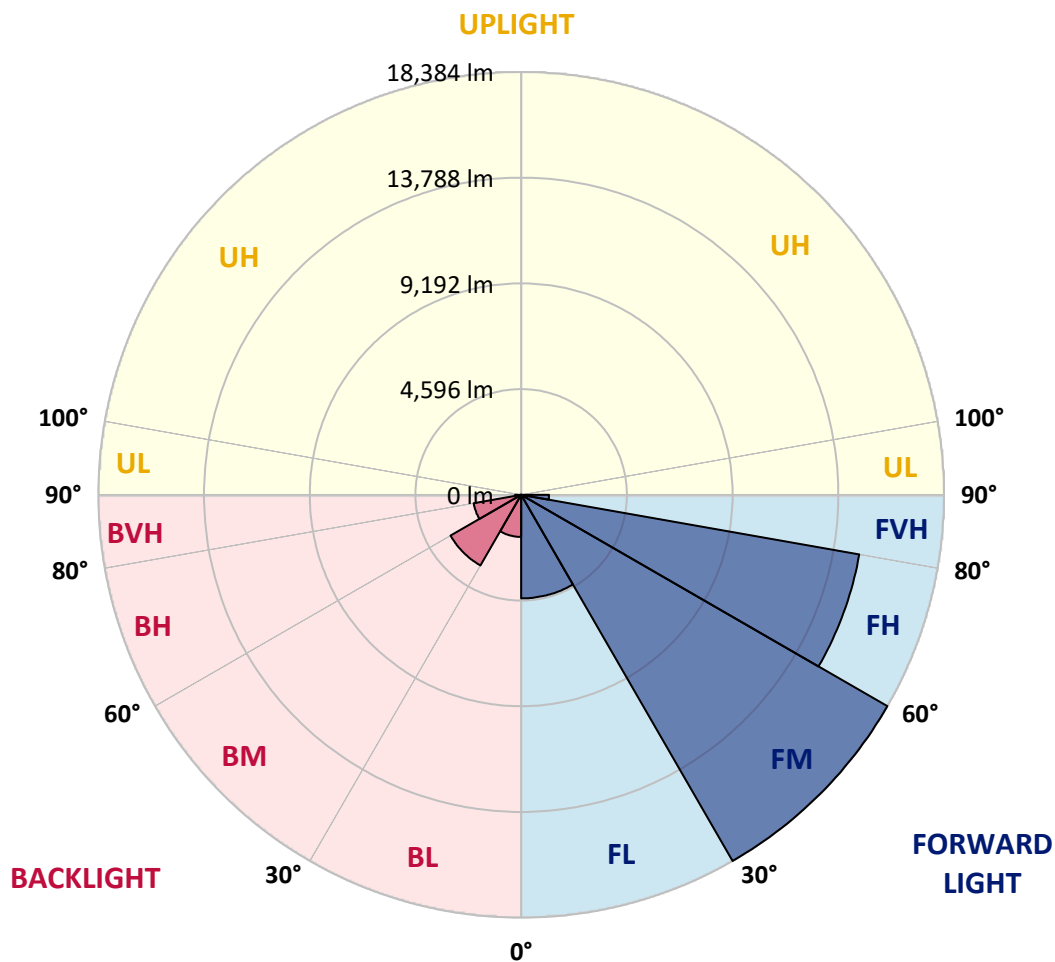
CATALOG NUMBER: GAN-AF-09-LED-U-SLR-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4503.3 | 9.6 | | | |
| FM | (30°-60°) | 18383.7 | 39.3 | | | |
| FH | (60°-80°) | 14925.8 | 31.9 | | | G5 |
| FVH | (80°-90°) | 1213.2 | 2.6 | | | G5 |
| BL | (0°-30°) | 1830.9 | 3.9 | B3/2500 | | |
| BM | (30°-60°) | 3545.9 | 7.6 | B3/5000 | | |
| BH | (60°-80°) | 2098.0 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 264.1 | 0.6 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P194677

CATALOG NUMBER: GAN-AF-09-LED-U-SLR-7060

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 |
| 2.5° | 16416.7 | 16082.5 | 15527.2 | 14948.8 | 14596.6 | 14185.3 | 13864.0 | 13581.2 | 13015.6 | 12905.1 | 13005.3 |
| 5° | 15437.3 | 14766.3 | 13720.0 | 12666.0 | 11964.2 | 11211.0 | 10624.8 | 10154.4 | 9437.2 | 9311.2 | 9462.9 |
| 7.5° | 13866.5 | 13064.5 | 11681.4 | 10336.9 | 9344.6 | 8403.7 | 7771.3 | 7267.5 | 6707.0 | 6465.4 | 6480.8 |
| 10° | 12511.8 | 11606.9 | 9971.9 | 8509.1 | 7696.8 | 7061.8 | 6529.7 | 6012.9 | 5444.8 | 5072.1 | 4969.2 |
| 12.5° | 11753.4 | 10712.3 | 8827.9 | 7522.0 | 6768.7 | 6100.4 | 5527.1 | 4974.4 | 4367.7 | 3987.2 | 3879.2 |
| 15° | 11622.3 | 10491.2 | 8398.6 | 6889.6 | 5946.1 | 5100.3 | 4424.2 | 3807.3 | 3182.6 | 2874.1 | 2809.8 |
| 17.5° | 12190.4 | 10887.1 | 8259.8 | 6326.6 | 5172.3 | 4128.6 | 3298.3 | 2609.3 | 2100.3 | 1946.0 | 1933.2 |
| 20° | 13280.4 | 11648.0 | 8241.8 | 5797.0 | 4408.8 | 3185.1 | 2298.2 | 1796.9 | 1573.3 | 1529.6 | 1532.2 |
| 22.5° | 14810.0 | 12828.0 | 8462.9 | 5398.5 | 3707.0 | 2375.4 | 1727.5 | 1503.9 | 1416.5 | 1375.3 | 1375.3 |
| 25° | 16789.5 | 14452.7 | 8971.9 | 5108.1 | 3097.7 | 1897.2 | 1524.4 | 1390.8 | 1308.5 | 1280.2 | 1285.4 |
| 27.5° | 18707.2 | 16033.7 | 9563.1 | 4879.3 | 2699.3 | 1722.4 | 1444.8 | 1323.9 | 1251.9 | 1223.7 | 1236.5 |
| 30° | 20203.4 | 17437.3 | 10056.7 | 4568.2 | 2496.2 | 1673.5 | 1473.0 | 1349.6 | 1246.8 | 1203.1 | 1205.7 |
| 32.5° | 21442.5 | 18666.1 | 10470.6 | 4344.5 | 2316.2 | 1434.5 | 1269.9 | 1216.0 | 1203.1 | 1151.7 | 1126.0 |
| 35° | 23026.1 | 20005.5 | 10748.2 | 4349.7 | 2231.4 | 1280.2 | 1131.1 | 1036.0 | 966.6 | 907.5 | 907.5 |
| 37.5° | 24882.1 | 21542.8 | 11043.9 | 4408.8 | 2200.5 | 1190.3 | 1082.3 | 987.2 | 922.9 | 866.3 | 856.1 |
| 40° | 26717.6 | 23049.2 | 11313.8 | 4465.4 | 2182.6 | 1136.3 | 1043.7 | 956.3 | 897.2 | 840.6 | 825.2 |
| 42.5° | 28278.1 | 24288.3 | 11555.5 | 4493.6 | 2120.9 | 1131.1 | 1015.4 | 935.7 | 879.2 | 817.5 | 802.1 |
| 45° | 29432.3 | 25326.9 | 11815.1 | 4537.3 | 2059.2 | 1151.7 | 1015.4 | 933.2 | 863.8 | 804.6 | 789.2 |
| 47.5° | 30463.2 | 26545.4 | 12249.6 | 4537.3 | 1984.6 | 1113.1 | 1048.9 | 935.7 | 861.2 | 799.5 | 786.6 |
| 50° | 31843.7 | 28216.4 | 13072.2 | 4431.9 | 1879.2 | 1072.0 | 1105.4 | 925.5 | 838.1 | 789.2 | 773.8 |
| 52.5° | 33746.0 | 30357.8 | 14378.1 | 4249.4 | 1717.3 | 992.3 | 1097.7 | 920.3 | 814.9 | 763.5 | 745.5 |
| 55° | 35995.4 | 32650.9 | 15802.3 | 4036.1 | 1475.6 | 935.7 | 1059.1 | 907.5 | 789.2 | 732.7 | 714.7 |
| 57.5° | 37751.2 | 34229.3 | 16804.9 | 3707.0 | 1264.8 | 904.9 | 938.3 | 894.6 | 758.4 | 699.2 | 683.8 |
| 60° | 38450.5 | 34167.6 | 17080.0 | 3267.4 | 1162.0 | 879.2 | 820.1 | 1002.6 | 732.7 | 673.5 | 655.5 |
| 62.5° | 38072.6 | 32589.2 | 16308.7 | 2958.9 | 1138.8 | 845.8 | 768.6 | 928.0 | 712.1 | 655.5 | 629.8 |
| 65° | 36327.1 | 29792.2 | 14265.0 | 2876.7 | 1205.7 | 812.4 | 735.2 | 727.5 | 683.8 | 629.8 | 604.1 |
| 67.5° | 32524.9 | 25612.2 | 11421.8 | 2884.4 | 1290.5 | 778.9 | 701.8 | 665.8 | 645.3 | 601.6 | 578.4 |
| 70° | 26491.4 | 20249.7 | 8514.3 | 2904.9 | 1334.2 | 740.4 | 665.8 | 627.3 | 604.1 | 560.4 | 545.0 |
| 72.5° | 19478.5 | 15606.9 | 6185.2 | 2771.3 | 1341.9 | 696.7 | 617.0 | 583.6 | 560.4 | 514.1 | 501.3 |
| 75° | 13326.7 | 11938.5 | 4290.6 | 2295.7 | 1169.7 | 635.0 | 563.0 | 532.1 | 516.7 | 460.2 | 452.4 |
| 77.5° | 9735.4 | 8961.6 | 2745.5 | 1704.4 | 902.3 | 557.8 | 496.2 | 473.0 | 462.7 | 401.0 | 390.8 |
| 80° | 7812.5 | 7090.1 | 1717.3 | 1167.1 | 660.7 | 467.9 | 416.5 | 403.6 | 393.3 | 331.6 | 323.9 |
| 82.5° | 5419.1 | 4748.1 | 1102.8 | 758.4 | 496.2 | 362.5 | 329.1 | 323.9 | 308.5 | 251.9 | 244.2 |
| 85° | 2858.7 | 2578.4 | 699.2 | 516.7 | 359.9 | 249.4 | 228.8 | 228.8 | 221.1 | 167.1 | 162.0 |
| 87.5° | 365.0 | 593.8 | 354.8 | 269.9 | 197.9 | 110.5 | 110.5 | 108.0 | 115.7 | 95.1 | 82.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P194677

CATALOG NUMBER: GAN-AF-09-LED-U-SLR-7060

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 |
| 2.5° | 12768.8 | 12892.2 | 12774.0 | 12781.7 | 12912.8 | 13303.6 | 13480.9 | 13627.5 | 13784.3 | 13887.1 | 13933.4 |
| 5° | 9254.6 | 9542.6 | 9640.3 | 9845.9 | 10149.3 | 10648.0 | 10845.9 | 10989.9 | 11085.0 | 11141.6 | 11164.7 |
| 7.5° | 6329.1 | 6504.0 | 6699.3 | 7031.0 | 7691.6 | 7984.7 | 8115.8 | 8082.4 | 7974.4 | 7935.9 | 7897.3 |
| 10° | 4771.3 | 4701.9 | 4665.9 | 4848.4 | 5383.1 | 5678.8 | 5771.3 | 5681.3 | 5622.2 | 5635.1 | 5699.3 |
| 12.5° | 3696.7 | 3575.9 | 3429.4 | 3408.8 | 3761.0 | 4025.8 | 4084.9 | 4090.0 | 4198.0 | 4293.1 | 4434.5 |
| 15° | 2694.1 | 2681.3 | 2609.3 | 2565.6 | 2766.1 | 2982.1 | 3007.8 | 3054.0 | 3151.7 | 3221.1 | 3344.5 |
| 17.5° | 1899.8 | 1969.2 | 2025.7 | 2054.0 | 2205.7 | 2359.9 | 2331.7 | 2308.5 | 2290.5 | 2290.5 | 2349.7 |
| 20° | 1532.2 | 1578.4 | 1650.4 | 1732.7 | 1886.9 | 1994.9 | 1925.5 | 1832.9 | 1766.1 | 1745.5 | 1753.2 |
| 22.5° | 1380.5 | 1416.5 | 1457.6 | 1529.6 | 1668.4 | 1743.0 | 1668.4 | 1601.6 | 1534.7 | 1511.6 | 1503.9 |
| 25° | 1303.4 | 1349.6 | 1388.2 | 1442.2 | 1545.0 | 1596.4 | 1524.4 | 1475.6 | 1434.5 | 1406.2 | 1385.6 |
| 27.5° | 1259.7 | 1300.8 | 1311.1 | 1336.8 | 1424.2 | 1470.5 | 1434.5 | 1413.9 | 1388.2 | 1362.5 | 1336.8 |
| 30° | 1213.4 | 1205.7 | 1187.7 | 1190.3 | 1259.7 | 1305.9 | 1303.4 | 1308.5 | 1305.9 | 1298.2 | 1293.1 |
| 32.5° | 1108.0 | 1092.6 | 1077.1 | 1092.6 | 1156.8 | 1198.0 | 1200.5 | 1210.8 | 1210.8 | 1208.2 | 1228.8 |
| 35° | 922.9 | 951.2 | 969.2 | 1015.4 | 1092.6 | 1128.6 | 1113.1 | 1087.4 | 1041.1 | 1012.9 | 1010.3 |
| 37.5° | 853.5 | 858.6 | 889.5 | 953.7 | 1038.6 | 1072.0 | 1048.9 | 989.7 | 958.9 | 953.7 | 961.5 |
| 40° | 820.1 | 825.2 | 843.2 | 902.3 | 987.2 | 1020.6 | 1000.0 | 956.3 | 928.0 | 925.5 | 938.3 |
| 42.5° | 796.9 | 802.1 | 812.4 | 853.5 | 922.9 | 964.0 | 966.6 | 935.7 | 902.3 | 904.9 | 917.8 |
| 45° | 784.1 | 786.6 | 784.1 | 804.6 | 868.9 | 917.8 | 938.3 | 917.8 | 889.5 | 894.6 | 910.0 |
| 47.5° | 781.5 | 773.8 | 763.5 | 768.6 | 835.5 | 884.3 | 910.0 | 902.3 | 889.5 | 894.6 | 907.5 |
| 50° | 771.2 | 753.2 | 740.4 | 737.8 | 804.6 | 856.1 | 879.2 | 879.2 | 884.3 | 894.6 | 907.5 |
| 52.5° | 740.4 | 719.8 | 719.8 | 712.1 | 784.1 | 832.9 | 848.3 | 850.9 | 858.6 | 876.6 | 894.6 |
| 55° | 701.8 | 694.1 | 701.8 | 689.0 | 768.6 | 814.9 | 822.6 | 827.8 | 832.9 | 848.3 | 874.0 |
| 57.5° | 668.4 | 658.1 | 676.1 | 671.0 | 755.8 | 796.9 | 796.9 | 807.2 | 807.2 | 827.8 | 848.3 |
| 60° | 650.4 | 629.8 | 637.5 | 642.7 | 737.8 | 781.5 | 776.4 | 786.6 | 791.8 | 809.8 | 825.2 |
| 62.5° | 627.3 | 609.3 | 609.3 | 622.1 | 717.2 | 758.4 | 755.8 | 763.5 | 784.1 | 789.2 | 804.6 |
| 65° | 599.0 | 591.3 | 583.6 | 599.0 | 696.7 | 732.7 | 735.2 | 745.5 | 763.5 | 768.6 | 781.5 |
| 67.5° | 570.7 | 573.3 | 557.8 | 573.3 | 678.7 | 707.0 | 707.0 | 727.5 | 735.2 | 745.5 | 758.4 |
| 70° | 539.9 | 542.4 | 529.6 | 547.6 | 665.8 | 678.7 | 676.1 | 704.4 | 709.5 | 717.2 | 730.1 |
| 72.5° | 501.3 | 501.3 | 496.2 | 521.9 | 645.3 | 650.4 | 645.3 | 668.4 | 671.0 | 678.7 | 683.8 |
| 75° | 460.2 | 460.2 | 455.0 | 491.0 | 632.4 | 619.5 | 604.1 | 622.1 | 627.3 | 632.4 | 632.4 |
| 77.5° | 406.2 | 411.3 | 411.3 | 455.0 | 588.7 | 606.7 | 555.3 | 565.6 | 573.3 | 575.8 | 568.1 |
| 80° | 339.3 | 352.2 | 357.3 | 413.9 | 493.6 | 560.4 | 496.2 | 503.9 | 506.4 | 506.4 | 496.2 |
| 82.5° | 259.6 | 282.8 | 295.6 | 357.3 | 377.9 | 470.4 | 431.9 | 439.6 | 431.9 | 416.5 | 411.3 |
| 85° | 180.0 | 210.8 | 226.2 | 272.5 | 285.4 | 362.5 | 359.9 | 359.9 | 344.5 | 323.9 | 321.3 |
| 87.5° | 97.7 | 115.7 | 126.0 | 162.0 | 195.4 | 244.2 | 264.8 | 257.1 | 244.2 | 231.4 | 233.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P194677

CATALOG NUMBER: GAN-AF-09-LED-U-SLR-7060

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 |
| 2.5° | 14175.0 | 14524.7 | 15082.5 | 15509.2 | 15938.6 | 16352.4 | 16799.8 | 17141.7 | 17432.2 | 17545.3 | 17889.7 |
| 5° | 11398.6 | 11835.7 | 12362.7 | 13313.8 | 13987.4 | 14730.3 | 15588.9 | 16725.2 | 17162.2 | 17766.3 | 18756.1 |
| 7.5° | 8059.3 | 8455.1 | 9303.5 | 10072.1 | 11025.9 | 12077.3 | 13236.7 | 14804.9 | 15378.1 | 16347.3 | 17959.2 |
| 10° | 6018.1 | 6478.3 | 7159.5 | 7807.3 | 8648.0 | 9722.5 | 11054.2 | 12807.4 | 13504.1 | 14555.5 | 16411.6 |
| 12.5° | 4848.4 | 5390.8 | 6113.2 | 6722.5 | 7372.9 | 8131.2 | 9424.3 | 11347.2 | 12280.4 | 13200.7 | 15077.4 |
| 15° | 3725.0 | 4293.1 | 4964.1 | 5737.9 | 6455.1 | 7272.6 | 8627.4 | 10730.2 | 11804.8 | 12763.7 | 14365.3 |
| 17.5° | 2578.4 | 3064.3 | 3910.1 | 4717.3 | 5635.1 | 6681.3 | 8406.3 | 10861.4 | 12144.2 | 13249.6 | 14488.7 |
| 20° | 1827.8 | 2105.4 | 2799.5 | 3735.3 | 4879.3 | 6192.9 | 8365.2 | 11550.3 | 13218.7 | 14480.9 | 15280.4 |
| 22.5° | 1537.3 | 1640.1 | 2043.7 | 2902.4 | 4223.7 | 5827.9 | 8509.1 | 12516.9 | 14668.6 | 16280.5 | 16542.7 |
| 25° | 1401.1 | 1462.7 | 1673.5 | 2277.7 | 3640.2 | 5563.1 | 8995.0 | 13956.5 | 16463.0 | 18080.0 | 18033.7 |
| 27.5° | 1326.5 | 1390.8 | 1529.6 | 1922.9 | 3200.6 | 5398.5 | 9480.9 | 15663.5 | 18514.4 | 20033.7 | 19457.9 |
| 30° | 1303.4 | 1390.8 | 1537.3 | 1812.4 | 2886.9 | 5138.9 | 9879.3 | 17162.2 | 20092.9 | 21352.5 | 20105.7 |
| 32.5° | 1285.4 | 1298.2 | 1365.1 | 1563.0 | 2588.7 | 4835.6 | 10149.3 | 18506.7 | 21637.9 | 22607.0 | 21038.9 |
| 35° | 1038.6 | 1102.8 | 1210.8 | 1401.1 | 2413.9 | 4653.0 | 10149.3 | 19666.1 | 23159.7 | 23874.4 | 21928.4 |
| 37.5° | 1000.0 | 1056.6 | 1151.7 | 1313.6 | 2316.2 | 4563.1 | 9946.2 | 20784.4 | 24715.0 | 25311.5 | 22661.0 |
| 40° | 979.4 | 1025.7 | 1115.7 | 1246.8 | 2275.1 | 4460.2 | 9650.5 | 21771.6 | 26234.3 | 26751.1 | 23344.8 |
| 42.5° | 964.0 | 1005.2 | 1090.0 | 1205.7 | 2221.1 | 4347.1 | 9411.5 | 22563.3 | 27553.1 | 27979.9 | 23997.8 |
| 45° | 956.3 | 1000.0 | 1092.6 | 1226.2 | 2113.1 | 4198.0 | 9331.8 | 23419.4 | 28638.0 | 29005.6 | 24704.8 |
| 47.5° | 956.3 | 1007.7 | 1105.4 | 1269.9 | 1984.6 | 4043.8 | 9581.1 | 24547.9 | 29663.7 | 29843.7 | 25537.7 |
| 50° | 948.6 | 1005.2 | 1141.4 | 1226.2 | 1796.9 | 3848.4 | 10167.3 | 25969.6 | 30774.3 | 30794.8 | 26591.7 |
| 52.5° | 933.2 | 1000.0 | 1228.8 | 1200.5 | 1581.0 | 3591.3 | 10959.0 | 27794.8 | 32417.0 | 32540.4 | 28242.1 |
| 55° | 915.2 | 992.3 | 1205.7 | 1141.4 | 1403.6 | 3285.4 | 11606.9 | 30013.3 | 34725.5 | 35067.4 | 30668.9 |
| 57.5° | 892.0 | 982.0 | 1167.1 | 1059.1 | 1287.9 | 2892.1 | 11840.8 | 31638.0 | 36337.3 | 37196.0 | 33404.1 |
| 60° | 871.5 | 974.3 | 1054.0 | 1010.3 | 1216.0 | 2560.5 | 11388.4 | 31316.7 | 36226.8 | 38077.7 | 35828.3 |
| 62.5° | 850.9 | 982.0 | 961.5 | 979.4 | 1182.5 | 2347.1 | 10205.8 | 28743.4 | 34393.9 | 37167.7 | 37625.3 |
| 65° | 827.8 | 912.6 | 907.5 | 953.7 | 1174.8 | 2262.2 | 8460.3 | 24884.7 | 30851.4 | 34291.0 | 38049.4 |
| 67.5° | 796.9 | 843.2 | 868.9 | 920.3 | 1200.5 | 2187.7 | 6827.9 | 20527.3 | 25928.4 | 29979.9 | 35838.6 |
| 70° | 763.5 | 802.1 | 830.3 | 879.2 | 1185.1 | 2154.3 | 5678.8 | 16187.9 | 20573.6 | 24571.1 | 31476.1 |
| 72.5° | 719.8 | 753.2 | 778.9 | 825.2 | 1169.7 | 2136.3 | 4797.0 | 13036.2 | 15360.1 | 18252.2 | 25591.7 |
| 75° | 668.4 | 699.2 | 717.2 | 763.5 | 1120.8 | 1956.3 | 3771.3 | 11031.0 | 11493.8 | 12696.9 | 20383.4 |
| 77.5° | 609.3 | 632.4 | 647.8 | 699.2 | 992.3 | 1627.3 | 2727.5 | 8509.1 | 8925.6 | 9218.7 | 15627.5 |
| 80° | 539.9 | 563.0 | 570.7 | 619.5 | 822.6 | 1272.5 | 1778.9 | 6285.4 | 6676.2 | 6743.0 | 10205.8 |
| 82.5° | 460.2 | 483.3 | 483.3 | 529.6 | 673.5 | 915.2 | 1167.1 | 4306.0 | 4383.1 | 4609.3 | 7213.5 |
| 85° | 370.2 | 388.2 | 388.2 | 411.3 | 521.9 | 683.8 | 802.1 | 2162.0 | 2138.9 | 2442.2 | 6249.5 |
| 87.5° | 264.8 | 277.6 | 290.5 | 295.6 | 372.8 | 452.4 | 483.3 | 658.1 | 434.5 | 498.7 | 4012.9 |
| 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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| 0° | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 | 15799.7 |
| 2.5° | 18149.4 | 18295.9 | 18146.8 | 18038.8 | 17573.5 | 17190.5 | 16678.9 | 16416.7 |
| 5° | 19509.3 | 19882.1 | 19756.1 | 19303.6 | 18331.9 | 17239.3 | 15997.7 | 15437.3 |
| 7.5° | 19344.8 | 20211.1 | 20231.7 | 19385.9 | 17954.0 | 16344.7 | 14663.5 | 13866.5 |
| 10° | 18064.6 | 19172.5 | 19488.7 | 18668.7 | 17149.4 | 15349.9 | 13421.8 | 12511.8 |
| 12.5° | 16635.2 | 17720.1 | 17961.7 | 17678.9 | 16409.0 | 14601.8 | 12645.4 | 11753.4 |
| 15° | 15465.5 | 15951.4 | 16239.3 | 16486.1 | 15774.0 | 14303.6 | 12601.7 | 11622.3 |
| 17.5° | 14753.4 | 14699.5 | 14781.7 | 15211.0 | 15331.9 | 14645.5 | 13270.1 | 12190.4 |
| 20° | 14496.4 | 13671.2 | 13650.6 | 14241.9 | 15123.6 | 15460.4 | 14576.1 | 13280.4 |
| 22.5° | 14637.8 | 13301.0 | 13131.3 | 13833.1 | 15234.2 | 16635.2 | 16288.2 | 14810.0 |
| 25° | 15126.2 | 13331.8 | 13195.6 | 13874.3 | 15635.2 | 17887.2 | 18136.5 | 16789.5 |
| 27.5° | 15894.9 | 13527.2 | 13347.3 | 14043.9 | 16167.4 | 18938.6 | 19956.6 | 18707.2 |
| 30° | 16624.9 | 13866.5 | 13642.9 | 14378.1 | 16653.2 | 19355.1 | 21072.3 | 20203.4 |
| 32.5° | 17511.8 | 14501.5 | 14108.2 | 14992.5 | 17254.8 | 20018.3 | 22067.2 | 21442.5 |
| 35° | 18380.8 | 15406.4 | 14918.0 | 15941.1 | 17925.7 | 20843.5 | 23203.5 | 23026.1 |
| 37.5° | 19334.5 | 16589.0 | 16185.3 | 17167.4 | 18843.5 | 21622.5 | 24653.3 | 24882.1 |
| 40° | 20352.5 | 18157.1 | 17678.9 | 18956.6 | 20267.7 | 22599.3 | 26167.5 | 26717.6 |
| 42.5° | 21378.2 | 19897.5 | 19326.8 | 20622.4 | 21833.3 | 23563.4 | 27463.2 | 28278.1 |
| 45° | 22553.1 | 21787.0 | 21517.1 | 22918.1 | 23337.1 | 24481.1 | 28419.5 | 29432.3 |
| 47.5° | 23920.7 | 23931.0 | 24365.4 | 24925.8 | 24853.9 | 25519.7 | 29380.9 | 30463.2 |
| 50° | 25517.1 | 26607.1 | 27566.0 | 27938.7 | 26416.9 | 26635.4 | 30715.1 | 31843.7 |
| 52.5° | 27434.9 | 29807.7 | 30995.3 | 30751.1 | 28100.7 | 27997.9 | 32828.3 | 33746.0 |
| 55° | 29833.4 | 33195.9 | 34375.9 | 34201.1 | 30036.5 | 29853.9 | 35460.7 | 35995.4 |
| 57.5° | 32609.8 | 36478.7 | 37563.6 | 36776.9 | 32360.4 | 31890.0 | 37638.1 | 37751.2 |
| 60° | 35049.4 | 39080.3 | 40031.5 | 39160.0 | 34704.9 | 34057.1 | 38998.0 | 38450.5 |
| 62.5° | 36406.7 | 39962.1 | 40630.5 | 39692.1 | 36311.6 | 36365.6 | 39296.3 | 38072.6 |
| 65° | 35800.1 | 37733.2 | 37949.2 | 37872.1 | 35897.7 | 37705.0 | 38224.3 | 36327.1 |
| 67.5° | 32478.7 | 32098.2 | 32460.7 | 32962.0 | 32350.1 | 35941.4 | 35255.1 | 32524.9 |
| 70° | 26627.7 | 24537.7 | 25260.0 | 25596.8 | 25874.4 | 30928.5 | 30599.5 | 26491.4 |
| 72.5° | 20067.2 | 17190.5 | 17761.2 | 17691.8 | 18977.2 | 24807.6 | 23797.3 | 19478.5 |
| 75° | 14218.7 | 11655.7 | 11727.7 | 11699.4 | 13241.9 | 19409.0 | 17231.6 | 13326.7 |
| 77.5° | 9948.7 | 8444.9 | 8483.4 | 8642.8 | 8902.5 | 14637.8 | 12311.2 | 9735.4 |
| 80° | 6840.7 | 6408.8 | 6622.2 | 6635.1 | 6169.8 | 9833.1 | 9095.3 | 7812.5 |
| 82.5° | 5095.2 | 4455.1 | 4403.7 | 4478.2 | 4835.6 | 7966.7 | 6989.8 | 5419.1 |
| 85° | 4172.3 | 2637.6 | 2120.9 | 2658.1 | 4285.4 | 7889.6 | 4642.7 | 2858.7 |
| 87.5° | 2349.7 | 1251.9 | 565.6 | 1048.9 | 1709.5 | 5223.7 | 1341.9 | 365.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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