

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: P194687

Luminaire Tested: **GAN-AF-09-LED-U-SLR-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194687
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-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA 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: 51301 lumens
Efficiency: N/A
Efficacy: 89.2 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): 575
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

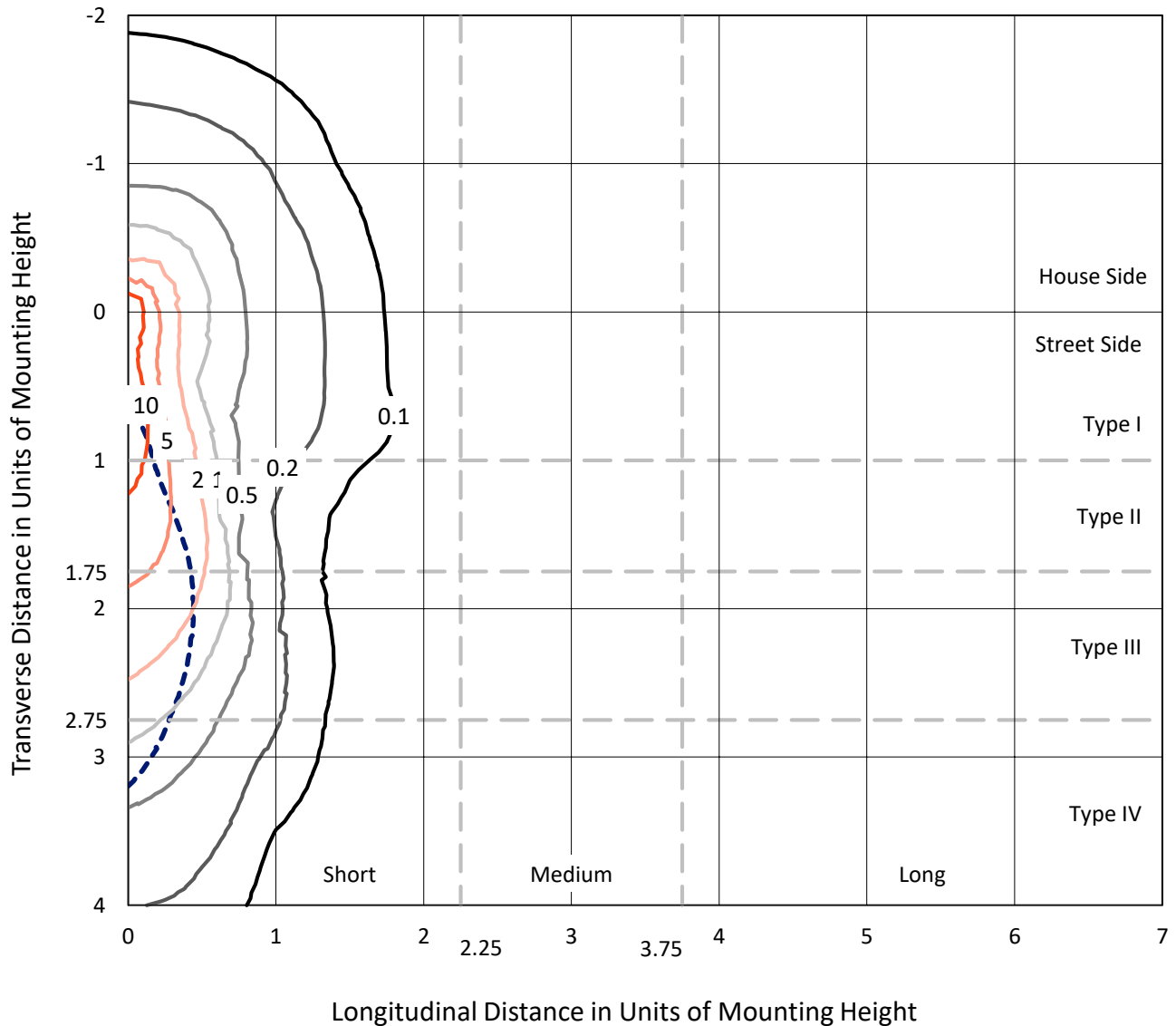


REPORT NUMBER: P194687

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

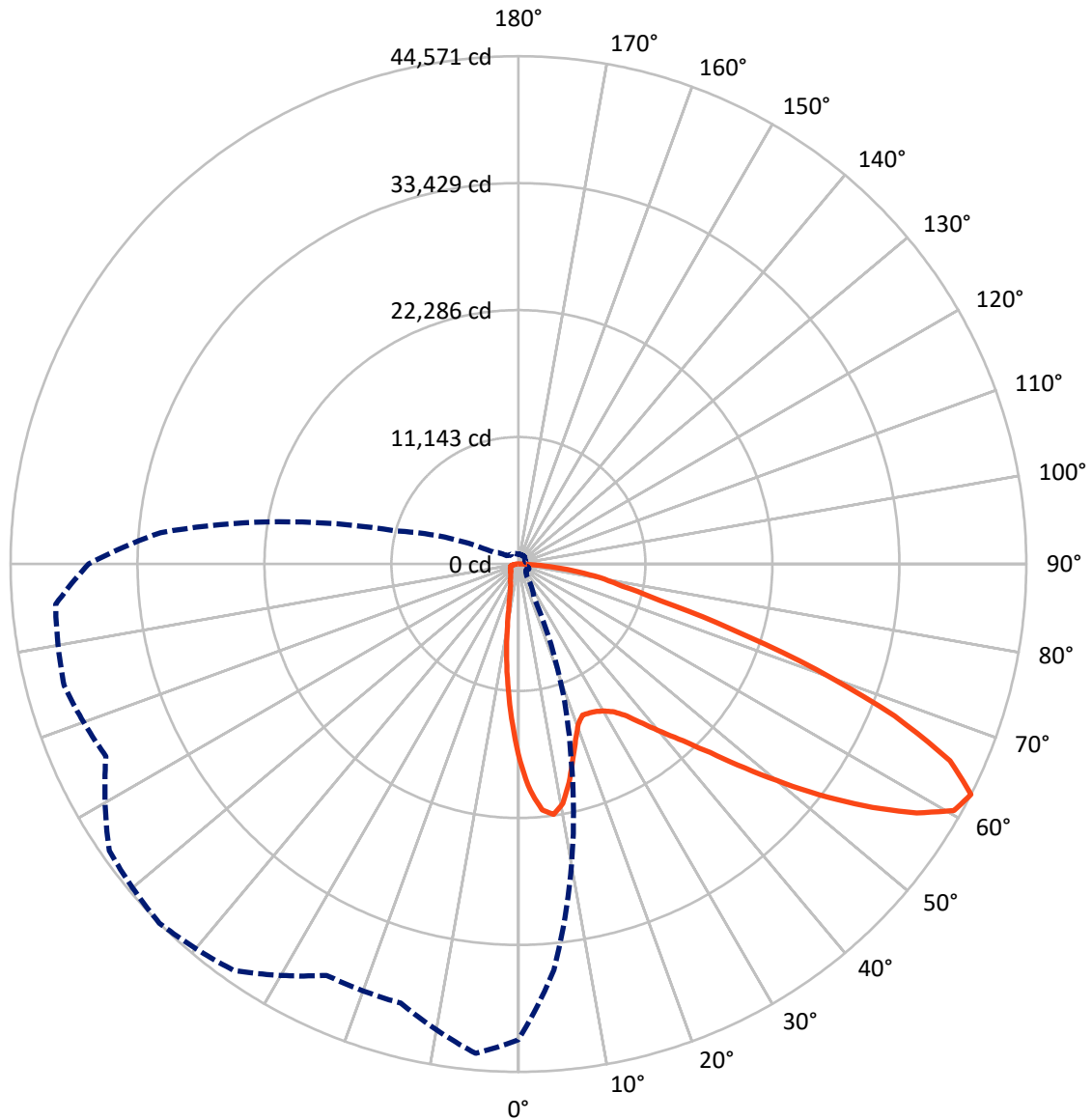


Based on 30 foot mounting height. Maximum calculated value = 19.3 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P194687

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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 | 8489.6 | 0.0 | 8489.6 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 42811.4 | 0.0 | 42811.4 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 51301.0 | 0.0 | 51301.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1261.7 | 2.5 |
| 10°-20° | 2313.6 | 4.5 |
| 20°-30° | 3373.3 | 6.6 |
| 30°-40° | 5195.3 | 10.1 |
| 40°-50° | 7646.2 | 14.9 |
| 50°-60° | 11215.3 | 21.9 |
| 60°-70° | 12537.1 | 24.4 |
| 70°-80° | 6138.0 | 12.0 |
| 80°-90° | 1620.6 | 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° | 51301.0 | 100.0 |
| 0°-180° | 51301.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P194687

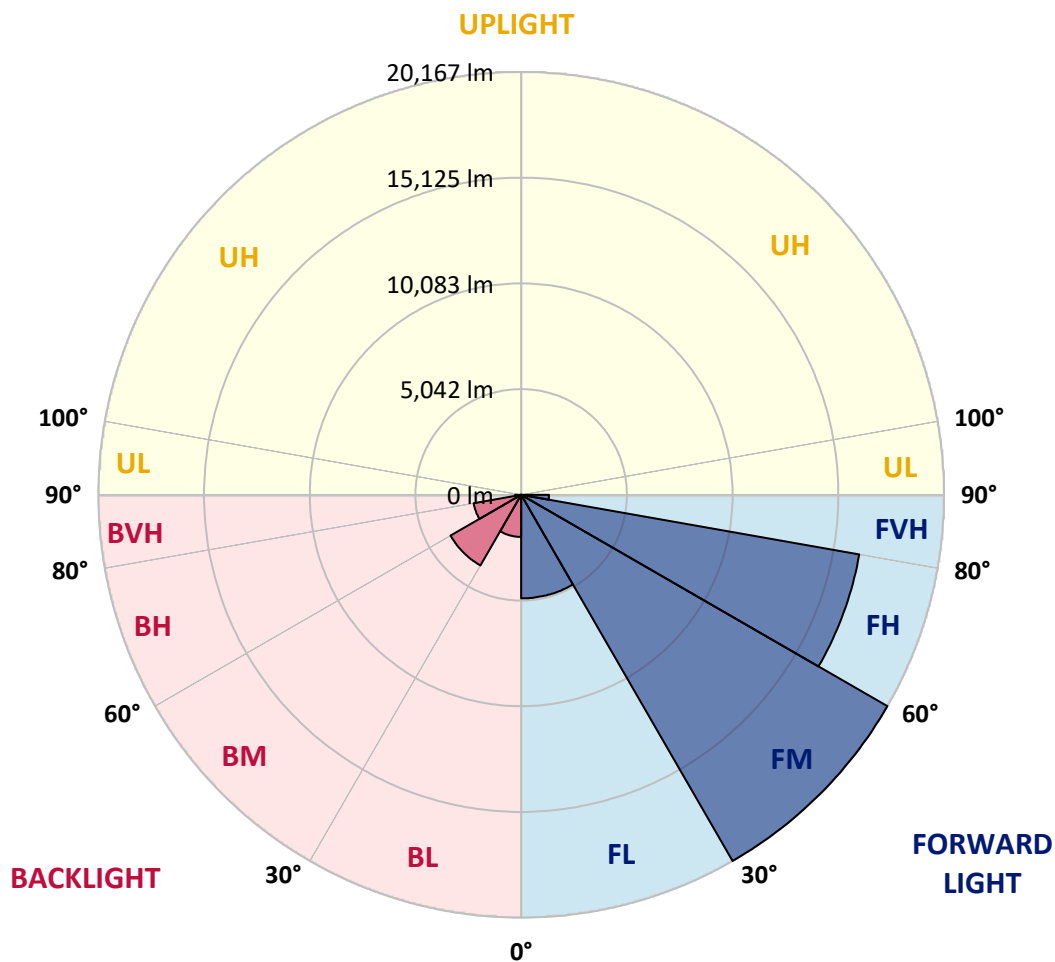
CATALOG NUMBER: GAN-AF-09-LED-U-SLR-7060-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4940.1 | 9.6 | | | |
| FM | (30°-60°) | 20166.9 | 39.3 | | | |
| FH | (60°-80°) | 16373.5 | 31.9 | | | G5 |
| FVH | (80°-90°) | 1330.9 | 2.6 | | | G5 |
| BL | (0°-30°) | 2008.5 | 3.9 | B3/2500 | | |
| BM | (30°-60°) | 3889.9 | 7.6 | B3/5000 | | |
| BH | (60°-80°) | 2301.5 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 289.7 | 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: P194687

CATALOG NUMBER: GAN-AF-09-LED-U-SLR-7060-1200

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 |
| 2.5° | 18009.1 | 17642.5 | 17033.3 | 16398.8 | 16012.4 | 15561.2 | 15208.7 | 14898.5 | 14278.1 | 14156.8 | 14266.8 |
| 5° | 16934.6 | 16198.6 | 15050.8 | 13894.6 | 13124.7 | 12298.4 | 11655.4 | 11139.3 | 10352.5 | 10214.3 | 10380.7 |
| 7.5° | 15211.5 | 14331.7 | 12814.5 | 11339.6 | 10251.0 | 9218.9 | 8525.1 | 7972.4 | 7357.6 | 7092.5 | 7109.4 |
| 10° | 13725.4 | 12732.7 | 10939.1 | 9334.5 | 8443.3 | 7746.8 | 7163.0 | 6596.2 | 5972.9 | 5564.0 | 5451.2 |
| 12.5° | 12893.4 | 11751.3 | 9684.2 | 8251.6 | 7425.3 | 6692.1 | 6063.2 | 5456.9 | 4791.3 | 4374.0 | 4255.5 |
| 15° | 12749.6 | 11508.8 | 9213.2 | 7557.8 | 6522.9 | 5595.0 | 4853.4 | 4176.5 | 3491.3 | 3152.9 | 3082.4 |
| 17.5° | 13372.8 | 11943.1 | 9060.9 | 6940.2 | 5674.0 | 4529.1 | 3618.2 | 2862.4 | 2304.0 | 2134.8 | 2120.7 |
| 20° | 14568.6 | 12777.8 | 9041.2 | 6359.3 | 4836.4 | 3494.1 | 2521.2 | 1971.2 | 1725.9 | 1678.0 | 1680.8 |
| 22.5° | 16246.5 | 14072.2 | 9283.7 | 5922.2 | 4066.6 | 2605.8 | 1895.1 | 1649.7 | 1553.9 | 1508.7 | 1508.7 |
| 25° | 18418.0 | 15854.5 | 9842.1 | 5603.5 | 3398.2 | 2081.2 | 1672.3 | 1525.7 | 1435.4 | 1404.4 | 1410.0 |
| 27.5° | 20521.8 | 17588.9 | 10490.7 | 5352.5 | 2961.1 | 1889.5 | 1584.9 | 1452.3 | 1373.4 | 1342.4 | 1356.5 |
| 30° | 22163.0 | 19128.6 | 11032.2 | 5011.3 | 2738.3 | 1835.9 | 1615.9 | 1480.5 | 1367.7 | 1319.8 | 1322.6 |
| 32.5° | 23522.3 | 20476.6 | 11486.2 | 4765.9 | 2540.9 | 1573.6 | 1393.1 | 1333.9 | 1319.8 | 1263.4 | 1235.2 |
| 35° | 25259.5 | 21945.9 | 11790.8 | 4771.6 | 2447.8 | 1404.4 | 1240.8 | 1136.5 | 1060.4 | 995.5 | 995.5 |
| 37.5° | 27295.6 | 23632.3 | 12115.1 | 4836.4 | 2414.0 | 1305.7 | 1187.3 | 1082.9 | 1012.4 | 950.4 | 939.1 |
| 40° | 29309.1 | 25284.9 | 12411.2 | 4898.5 | 2394.3 | 1246.5 | 1145.0 | 1049.1 | 984.2 | 922.2 | 905.2 |
| 42.5° | 31020.9 | 26644.2 | 12676.3 | 4929.5 | 2326.6 | 1240.8 | 1113.9 | 1026.5 | 964.5 | 896.8 | 879.9 |
| 45° | 32287.2 | 27783.5 | 12961.1 | 4977.4 | 2258.9 | 1263.4 | 1113.9 | 1023.7 | 947.5 | 882.7 | 865.8 |
| 47.5° | 33418.0 | 29120.2 | 13437.7 | 4977.4 | 2177.1 | 1221.1 | 1150.6 | 1026.5 | 944.7 | 877.0 | 862.9 |
| 50° | 34932.4 | 30953.3 | 14340.1 | 4861.8 | 2061.5 | 1176.0 | 1212.6 | 1015.2 | 919.3 | 865.8 | 848.8 |
| 52.5° | 37019.3 | 33302.4 | 15772.7 | 4661.6 | 1883.8 | 1088.6 | 1204.2 | 1009.6 | 894.0 | 837.6 | 817.8 |
| 55° | 39486.8 | 35817.9 | 17335.1 | 4427.5 | 1618.7 | 1026.5 | 1161.9 | 995.5 | 865.8 | 803.7 | 784.0 |
| 57.5° | 41412.9 | 37549.4 | 18434.9 | 4066.6 | 1387.5 | 992.7 | 1029.3 | 981.4 | 831.9 | 767.1 | 750.1 |
| 60° | 42180.0 | 37481.7 | 18736.6 | 3584.3 | 1274.7 | 964.5 | 899.6 | 1099.8 | 803.7 | 738.9 | 719.1 |
| 62.5° | 41765.5 | 35750.2 | 17890.6 | 3245.9 | 1249.3 | 927.8 | 843.2 | 1018.1 | 781.2 | 719.1 | 690.9 |
| 65° | 39850.6 | 32682.0 | 15648.7 | 3155.7 | 1322.6 | 891.1 | 806.5 | 798.1 | 750.1 | 690.9 | 662.7 |
| 67.5° | 35679.7 | 28096.5 | 12529.6 | 3164.1 | 1415.7 | 854.5 | 769.9 | 730.4 | 707.8 | 659.9 | 634.5 |
| 70° | 29061.0 | 22213.8 | 9340.1 | 3186.7 | 1463.6 | 812.2 | 730.4 | 688.1 | 662.7 | 614.8 | 597.9 |
| 72.5° | 21367.8 | 17120.7 | 6785.1 | 3040.1 | 1472.1 | 764.2 | 676.8 | 640.2 | 614.8 | 564.0 | 549.9 |
| 75° | 14619.3 | 13096.5 | 4706.7 | 2518.3 | 1283.1 | 696.6 | 617.6 | 583.8 | 566.8 | 504.8 | 496.3 |
| 77.5° | 10679.7 | 9830.8 | 3011.9 | 1869.7 | 989.8 | 612.0 | 544.3 | 518.9 | 507.6 | 439.9 | 428.7 |
| 80° | 8570.2 | 7777.8 | 1883.8 | 1280.3 | 724.8 | 513.3 | 456.9 | 442.8 | 431.5 | 363.8 | 355.3 |
| 82.5° | 5944.7 | 5208.7 | 1209.8 | 831.9 | 544.3 | 397.6 | 361.0 | 355.3 | 338.4 | 276.4 | 267.9 |
| 85° | 3135.9 | 2828.5 | 767.1 | 566.8 | 394.8 | 273.5 | 251.0 | 251.0 | 242.5 | 183.3 | 177.7 |
| 87.5° | 400.5 | 651.4 | 389.2 | 296.1 | 217.1 | 121.3 | 121.3 | 118.4 | 126.9 | 104.3 | 90.2 |
| 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: P194687

CATALOG NUMBER: GAN-AF-09-LED-U-SLR-7060-1200

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 |
| 2.5° | 14007.4 | 14142.7 | 14013.0 | 14021.5 | 14165.3 | 14593.9 | 14788.5 | 14949.3 | 15121.3 | 15234.1 | 15284.9 |
| 5° | 10152.3 | 10468.2 | 10575.3 | 10800.9 | 11133.7 | 11680.8 | 11897.9 | 12055.9 | 12160.2 | 12222.2 | 12247.6 |
| 7.5° | 6943.0 | 7134.8 | 7349.1 | 7712.9 | 8437.7 | 8759.2 | 8903.0 | 8866.3 | 8747.9 | 8705.6 | 8663.3 |
| 10° | 5234.1 | 5157.9 | 5118.5 | 5318.7 | 5905.3 | 6229.6 | 6331.1 | 6232.4 | 6167.5 | 6181.6 | 6252.1 |
| 12.5° | 4055.3 | 3922.7 | 3762.0 | 3739.4 | 4125.8 | 4416.3 | 4481.1 | 4486.8 | 4605.2 | 4709.5 | 4864.6 |
| 15° | 2955.4 | 2941.3 | 2862.4 | 2814.4 | 3034.4 | 3271.3 | 3299.5 | 3350.3 | 3457.4 | 3533.6 | 3668.9 |
| 17.5° | 2084.0 | 2160.2 | 2222.2 | 2253.2 | 2419.6 | 2588.8 | 2557.8 | 2532.4 | 2512.7 | 2512.7 | 2577.6 |
| 20° | 1680.8 | 1731.5 | 1810.5 | 1900.7 | 2069.9 | 2188.4 | 2112.2 | 2010.7 | 1937.4 | 1914.8 | 1923.3 |
| 22.5° | 1514.4 | 1553.9 | 1599.0 | 1678.0 | 1830.2 | 1912.0 | 1830.2 | 1756.9 | 1683.6 | 1658.2 | 1649.7 |
| 25° | 1429.8 | 1480.5 | 1522.8 | 1582.1 | 1694.9 | 1751.3 | 1672.3 | 1618.7 | 1573.6 | 1542.6 | 1520.0 |
| 27.5° | 1381.8 | 1427.0 | 1438.2 | 1466.4 | 1562.3 | 1613.1 | 1573.6 | 1551.0 | 1522.8 | 1494.6 | 1466.4 |
| 30° | 1331.1 | 1322.6 | 1302.9 | 1305.7 | 1381.8 | 1432.6 | 1429.8 | 1435.4 | 1432.6 | 1424.1 | 1418.5 |
| 32.5° | 1215.5 | 1198.5 | 1181.6 | 1198.5 | 1269.0 | 1314.2 | 1317.0 | 1328.3 | 1328.3 | 1325.4 | 1348.0 |
| 35° | 1012.4 | 1043.4 | 1063.2 | 1113.9 | 1198.5 | 1238.0 | 1221.1 | 1192.9 | 1142.1 | 1111.1 | 1108.3 |
| 37.5° | 936.3 | 941.9 | 975.7 | 1046.3 | 1139.3 | 1176.0 | 1150.6 | 1085.7 | 1051.9 | 1046.3 | 1054.7 |
| 40° | 899.6 | 905.2 | 925.0 | 989.8 | 1082.9 | 1119.6 | 1097.0 | 1049.1 | 1018.1 | 1015.2 | 1029.3 |
| 42.5° | 874.2 | 879.9 | 891.1 | 936.3 | 1012.4 | 1057.5 | 1060.4 | 1026.5 | 989.8 | 992.7 | 1006.8 |
| 45° | 860.1 | 862.9 | 860.1 | 882.7 | 953.2 | 1006.8 | 1029.3 | 1006.8 | 975.7 | 981.4 | 998.3 |
| 47.5° | 857.3 | 848.8 | 837.6 | 843.2 | 916.5 | 970.1 | 998.3 | 989.8 | 975.7 | 981.4 | 995.5 |
| 50° | 846.0 | 826.3 | 812.2 | 809.4 | 882.7 | 939.1 | 964.5 | 964.5 | 970.1 | 981.4 | 995.5 |
| 52.5° | 812.2 | 789.6 | 789.6 | 781.2 | 860.1 | 913.7 | 930.6 | 933.4 | 941.9 | 961.6 | 981.4 |
| 55° | 769.9 | 761.4 | 769.9 | 755.8 | 843.2 | 894.0 | 902.4 | 908.1 | 913.7 | 930.6 | 958.8 |
| 57.5° | 733.2 | 721.9 | 741.7 | 736.0 | 829.1 | 874.2 | 874.2 | 885.5 | 885.5 | 908.1 | 930.6 |
| 60° | 713.5 | 690.9 | 699.4 | 705.0 | 809.4 | 857.3 | 851.7 | 862.9 | 868.6 | 888.3 | 905.2 |
| 62.5° | 688.1 | 668.4 | 668.4 | 682.5 | 786.8 | 831.9 | 829.1 | 837.6 | 860.1 | 865.8 | 882.7 |
| 65° | 657.1 | 648.6 | 640.2 | 657.1 | 764.2 | 803.7 | 806.5 | 817.8 | 837.6 | 843.2 | 857.3 |
| 67.5° | 626.1 | 628.9 | 612.0 | 628.9 | 744.5 | 775.5 | 775.5 | 798.1 | 806.5 | 817.8 | 831.9 |
| 70° | 592.2 | 595.0 | 580.9 | 600.7 | 730.4 | 744.5 | 741.7 | 772.7 | 778.3 | 786.8 | 800.9 |
| 72.5° | 549.9 | 549.9 | 544.3 | 572.5 | 707.8 | 713.5 | 707.8 | 733.2 | 736.0 | 744.5 | 750.1 |
| 75° | 504.8 | 504.8 | 499.2 | 538.6 | 693.7 | 679.6 | 662.7 | 682.5 | 688.1 | 693.7 | 693.7 |
| 77.5° | 445.6 | 451.2 | 451.2 | 499.2 | 645.8 | 665.5 | 609.1 | 620.4 | 628.9 | 631.7 | 623.2 |
| 80° | 372.3 | 386.4 | 392.0 | 454.0 | 541.5 | 614.8 | 544.3 | 552.7 | 555.6 | 555.6 | 544.3 |
| 82.5° | 284.8 | 310.2 | 324.3 | 392.0 | 414.6 | 516.1 | 473.8 | 482.2 | 473.8 | 456.9 | 451.2 |
| 85° | 197.4 | 231.2 | 248.2 | 298.9 | 313.0 | 397.6 | 394.8 | 394.8 | 377.9 | 355.3 | 352.5 |
| 87.5° | 107.2 | 126.9 | 138.2 | 177.7 | 214.3 | 267.9 | 290.5 | 282.0 | 267.9 | 253.8 | 256.6 |
| 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: P194687

CATALOG NUMBER: GAN-AF-09-LED-U-SLR-7060-1200

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 | 17332.2 |
| 2.5° | 15549.9 | 15933.5 | 16545.4 | 17013.6 | 17484.5 | 17938.6 | 18429.3 | 18804.3 | 19123.0 | 19247.1 | 19625.0 |
| 5° | 12504.3 | 12983.7 | 13561.8 | 14605.2 | 15344.1 | 16159.1 | 17101.0 | 18347.5 | 18826.9 | 19489.6 | 20575.3 |
| 7.5° | 8841.0 | 9275.3 | 10205.9 | 11049.1 | 12095.3 | 13248.8 | 14520.6 | 16240.9 | 16869.7 | 17932.9 | 19701.1 |
| 10° | 6601.8 | 7106.6 | 7853.9 | 8564.6 | 9486.8 | 10665.6 | 12126.4 | 14049.7 | 14813.9 | 15967.3 | 18003.4 |
| 12.5° | 5318.7 | 5913.7 | 6706.2 | 7374.5 | 8088.0 | 8919.9 | 10338.4 | 12447.9 | 13471.5 | 14481.1 | 16539.8 |
| 15° | 4086.3 | 4709.5 | 5445.6 | 6294.4 | 7081.2 | 7978.0 | 9464.2 | 11771.0 | 12949.8 | 14001.7 | 15758.6 |
| 17.5° | 2828.5 | 3361.5 | 4289.3 | 5174.9 | 6181.6 | 7329.4 | 9221.7 | 11914.9 | 13322.1 | 14534.7 | 15894.0 |
| 20° | 2005.1 | 2309.6 | 3071.1 | 4097.6 | 5352.5 | 6793.6 | 9176.6 | 12670.6 | 14500.9 | 15885.5 | 16762.6 |
| 22.5° | 1686.4 | 1799.2 | 2242.0 | 3183.9 | 4633.4 | 6393.1 | 9334.5 | 13731.0 | 16091.4 | 17859.6 | 18147.2 |
| 25° | 1536.9 | 1604.6 | 1835.9 | 2498.6 | 3993.2 | 6102.7 | 9867.5 | 15310.2 | 18059.8 | 19833.7 | 19782.9 |
| 27.5° | 1455.2 | 1525.7 | 1678.0 | 2109.4 | 3511.0 | 5922.2 | 10400.5 | 17182.8 | 20310.3 | 21976.9 | 21345.2 |
| 30° | 1429.8 | 1525.7 | 1686.4 | 1988.2 | 3167.0 | 5637.3 | 10837.6 | 18826.9 | 22041.8 | 23423.6 | 22055.9 |
| 32.5° | 1410.0 | 1424.1 | 1497.5 | 1714.6 | 2839.8 | 5304.6 | 11133.7 | 20301.8 | 23736.7 | 24799.8 | 23079.6 |
| 35° | 1139.3 | 1209.8 | 1328.3 | 1536.9 | 2648.1 | 5104.4 | 11133.7 | 21573.6 | 25406.1 | 26190.1 | 24055.3 |
| 37.5° | 1097.0 | 1159.1 | 1263.4 | 1441.1 | 2540.9 | 5005.7 | 10910.9 | 22800.4 | 27112.3 | 27766.6 | 24859.0 |
| 40° | 1074.5 | 1125.2 | 1223.9 | 1367.7 | 2495.8 | 4892.8 | 10586.6 | 23883.3 | 28779.0 | 29345.8 | 25609.2 |
| 42.5° | 1057.5 | 1102.7 | 1195.7 | 1322.6 | 2436.6 | 4768.8 | 10324.3 | 24751.9 | 30225.7 | 30693.8 | 26325.5 |
| 45° | 1049.1 | 1097.0 | 1198.5 | 1345.2 | 2318.1 | 4605.2 | 10236.9 | 25691.0 | 31415.7 | 31819.0 | 27101.0 |
| 47.5° | 1049.1 | 1105.5 | 1212.6 | 1393.1 | 2177.1 | 4436.0 | 10510.5 | 26929.0 | 32541.0 | 32738.4 | 28014.7 |
| 50° | 1040.6 | 1102.7 | 1252.1 | 1345.2 | 1971.2 | 4221.7 | 11153.4 | 28488.5 | 33759.2 | 33781.8 | 29171.0 |
| 52.5° | 1023.7 | 1097.0 | 1348.0 | 1317.0 | 1734.4 | 3939.7 | 12022.0 | 30490.8 | 35561.3 | 35696.6 | 30981.5 |
| 55° | 1004.0 | 1088.6 | 1322.6 | 1252.1 | 1539.8 | 3604.1 | 12732.7 | 32924.5 | 38093.7 | 38468.8 | 33643.6 |
| 57.5° | 978.6 | 1077.3 | 1280.3 | 1161.9 | 1412.9 | 3172.6 | 12989.3 | 34706.8 | 39861.9 | 40803.8 | 36644.2 |
| 60° | 956.0 | 1068.8 | 1156.2 | 1108.3 | 1333.9 | 2808.8 | 12493.0 | 34354.3 | 39740.6 | 41771.1 | 39303.5 |
| 62.5° | 933.4 | 1077.3 | 1054.7 | 1074.5 | 1297.2 | 2574.7 | 11195.7 | 31531.4 | 37729.9 | 40772.8 | 41274.8 |
| 65° | 908.1 | 1001.1 | 995.5 | 1046.3 | 1288.8 | 2481.7 | 9280.9 | 27298.4 | 33843.8 | 37617.1 | 41740.1 |
| 67.5° | 874.2 | 925.0 | 953.2 | 1009.6 | 1317.0 | 2399.9 | 7490.1 | 22518.4 | 28443.4 | 32887.8 | 39314.8 |
| 70° | 837.6 | 879.9 | 910.9 | 964.5 | 1300.1 | 2363.2 | 6229.6 | 17758.1 | 22569.1 | 26954.4 | 34529.1 |
| 72.5° | 789.6 | 826.3 | 854.5 | 905.2 | 1283.1 | 2343.5 | 5262.3 | 14300.7 | 16850.0 | 20022.6 | 28073.9 |
| 75° | 733.2 | 767.1 | 786.8 | 837.6 | 1229.6 | 2146.1 | 4137.1 | 12101.0 | 12608.6 | 13928.4 | 22360.5 |
| 77.5° | 668.4 | 693.7 | 710.7 | 767.1 | 1088.6 | 1785.1 | 2992.1 | 9334.5 | 9791.3 | 10112.8 | 17143.3 |
| 80° | 592.2 | 617.6 | 626.1 | 679.6 | 902.4 | 1395.9 | 1951.5 | 6895.1 | 7323.8 | 7397.1 | 11195.7 |
| 82.5° | 504.8 | 530.2 | 530.2 | 580.9 | 738.9 | 1004.0 | 1280.3 | 4723.6 | 4808.2 | 5056.4 | 7913.2 |
| 85° | 406.1 | 425.8 | 425.8 | 451.2 | 572.5 | 750.1 | 879.9 | 2371.7 | 2346.3 | 2679.1 | 6855.6 |
| 87.5° | 290.5 | 304.6 | 318.7 | 324.3 | 408.9 | 496.3 | 530.2 | 721.9 | 476.6 | 547.1 | 4402.2 |
| 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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