

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: P194509

Luminaire Tested: **GAN-AF-01-LED-U-SL3-7060-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194509
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: GAN-AF-01-LED-U-SL3-7060-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6233 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

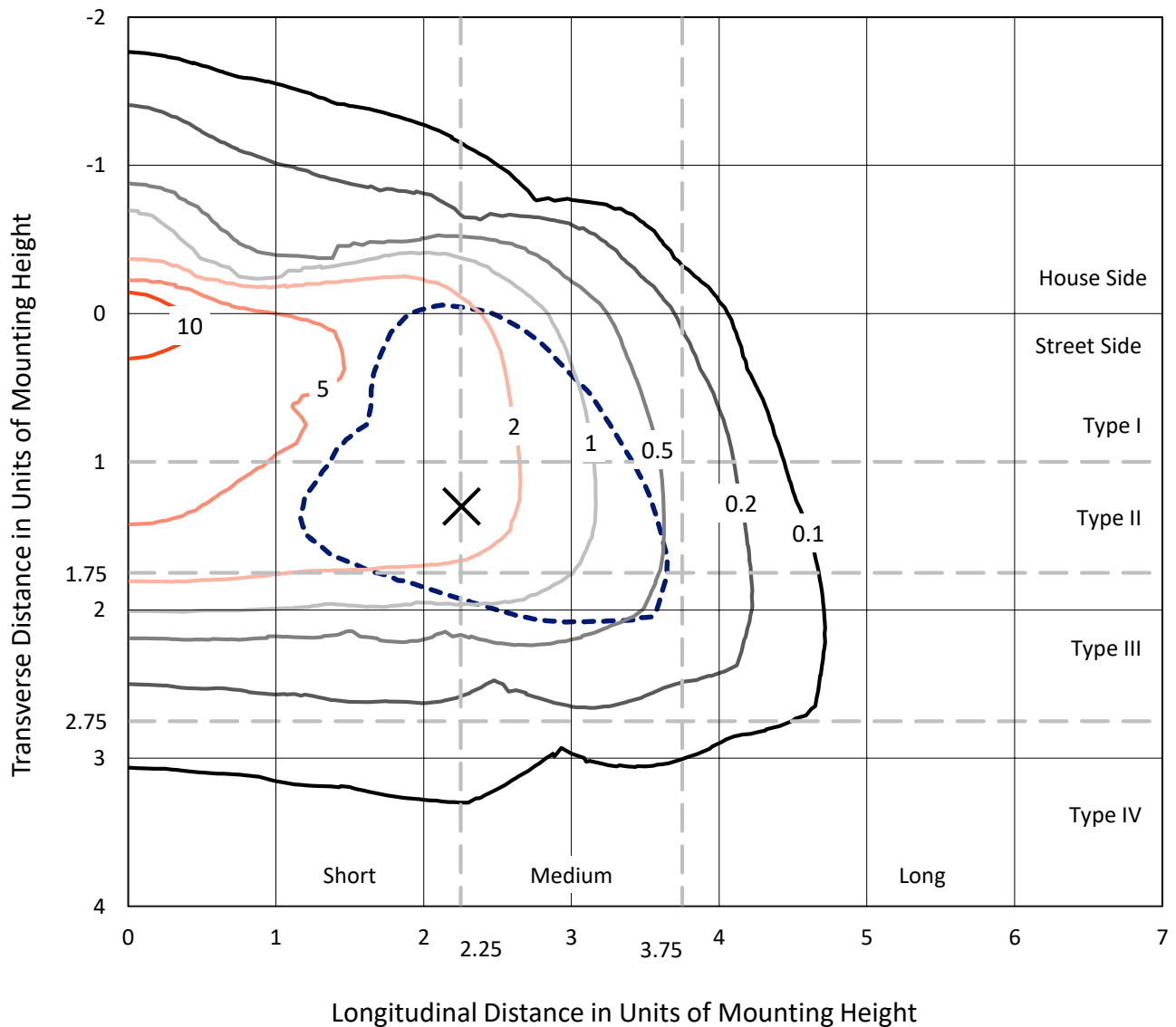
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

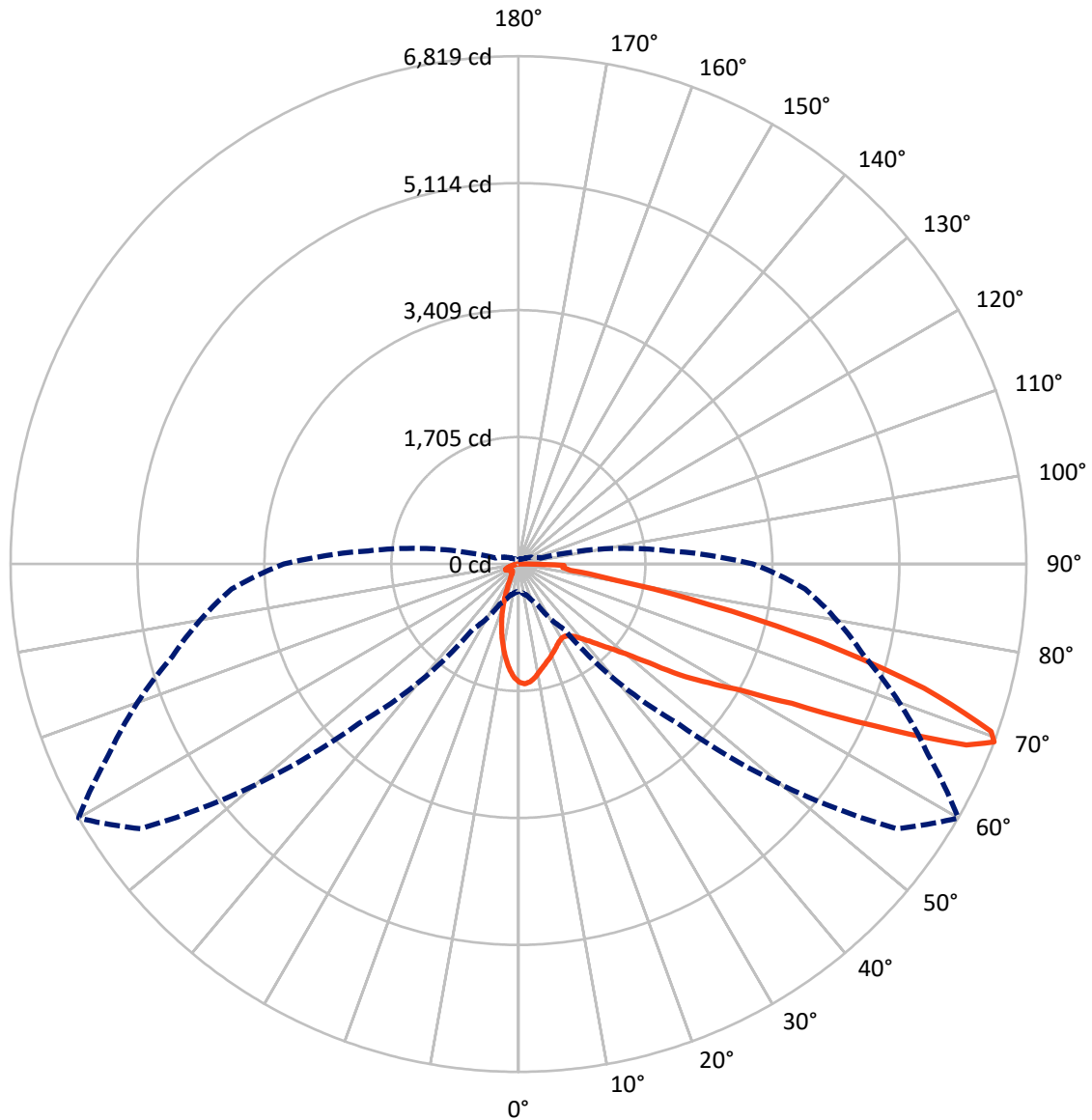
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.9 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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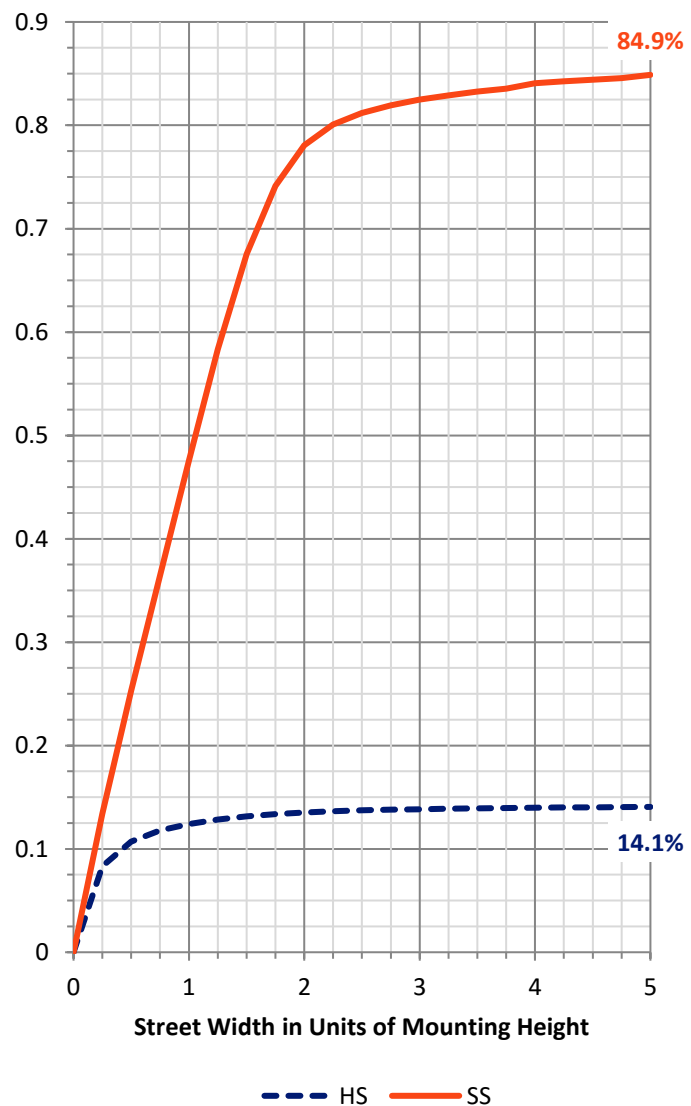
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 886.8 | 0.0 | 886.8 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 5346.2 | 0.0 | 5346.2 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 6233.0 | 0.0 | 6233.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 134.3 | 2.2 |
| 10°-20° | 286.1 | 4.6 |
| 20°-30° | 364.6 | 5.8 |
| 30°-40° | 501.2 | 8.0 |
| 40°-50° | 813.2 | 13.0 |
| 50°-60° | 1304.2 | 20.9 |
| 60°-70° | 1735.8 | 27.8 |
| 70°-80° | 937.2 | 15.0 |
| 80°-90° | 156.4 | 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° | 6233.0 | 100.0 |
| 0°-180° | 6233.0 | 100.0 |

Coefficient of Utilization



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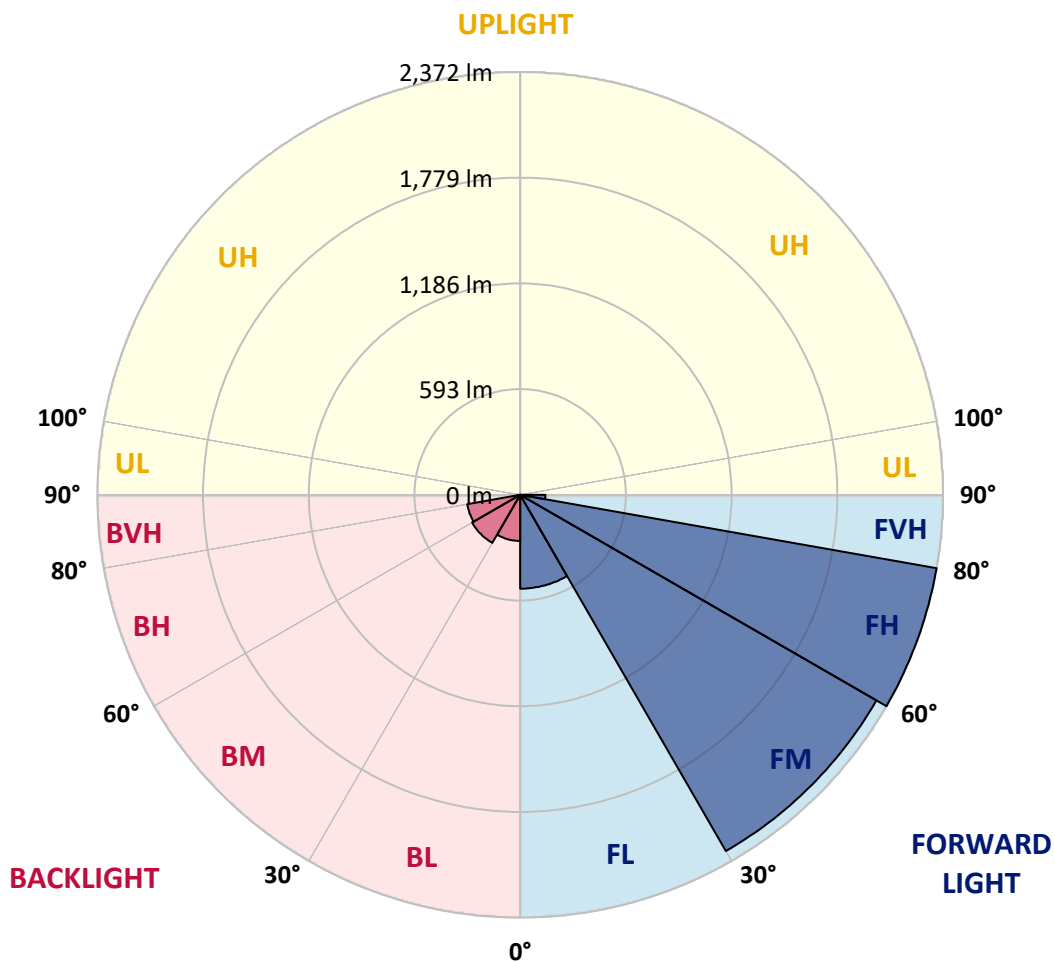
CATALOG NUMBER: GAN-AF-01-LED-U-SL3-7060-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 526.3 | 8.4 | | | |
| FM (30°-60°) | 2307.1 | 37.0 | | | |
| FH (60°-80°) | 2371.5 | 38.0 | | | G2/5000 |
| FVH (80°-90°) | 141.3 | 2.3 | | | G2/225 |
| BL (0°-30°) | 258.7 | 4.2 | B1/500 | | |
| BM (30°-60°) | 311.5 | 5.0 | B1/1000 | | |
| BH (60°-80°) | 301.5 | 4.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 15.1 | 0.2 | | | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1588.3 | 1588.3 | 1588.3 | 1588.3 | 1588.3 | 1588.3 | 1588.3 | 1588.3 | 1588.3 | 1588.3 | 1588.3 |
| 2.5° | 1620.8 | 1624.4 | 1622.9 | 1622.0 | 1624.7 | 1620.5 | 1611.7 | 1609.0 | 1604.8 | 1594.9 | 1578.0 |
| 5° | 1560.0 | 1570.8 | 1570.2 | 1578.3 | 1591.9 | 1595.5 | 1591.6 | 1592.2 | 1584.3 | 1572.0 | 1544.0 |
| 7.5° | 1454.9 | 1459.4 | 1461.8 | 1479.6 | 1504.3 | 1524.1 | 1541.0 | 1546.4 | 1542.8 | 1532.3 | 1496.1 |
| 10° | 1346.5 | 1350.1 | 1355.8 | 1376.6 | 1407.9 | 1435.3 | 1467.2 | 1485.6 | 1493.4 | 1491.6 | 1451.3 |
| 12.5° | 1253.4 | 1257.1 | 1264.6 | 1288.1 | 1325.4 | 1359.1 | 1405.5 | 1428.4 | 1447.1 | 1458.2 | 1414.8 |
| 15° | 1170.0 | 1177.9 | 1185.1 | 1212.2 | 1254.1 | 1298.3 | 1350.7 | 1379.6 | 1408.5 | 1433.5 | 1382.6 |
| 17.5° | 1105.0 | 1112.8 | 1117.1 | 1141.7 | 1186.3 | 1240.5 | 1301.9 | 1335.9 | 1372.1 | 1413.0 | 1350.7 |
| 20° | 1067.4 | 1071.0 | 1069.2 | 1083.0 | 1123.1 | 1180.6 | 1253.4 | 1292.9 | 1336.5 | 1393.8 | 1318.8 |
| 22.5° | 1056.8 | 1057.1 | 1050.5 | 1049.0 | 1074.9 | 1123.4 | 1201.7 | 1249.5 | 1303.1 | 1381.1 | 1291.4 |
| 25° | 1082.4 | 1081.5 | 1063.5 | 1048.7 | 1051.4 | 1079.7 | 1151.7 | 1207.4 | 1275.1 | 1378.4 | 1270.3 |
| 27.5° | 1139.3 | 1142.0 | 1115.2 | 1087.5 | 1060.1 | 1059.2 | 1113.7 | 1172.5 | 1252.2 | 1390.7 | 1261.3 |
| 30° | 1219.1 | 1223.6 | 1195.0 | 1159.8 | 1108.3 | 1065.9 | 1099.0 | 1151.7 | 1238.1 | 1416.3 | 1259.8 |
| 32.5° | 1306.4 | 1311.3 | 1289.6 | 1252.5 | 1185.1 | 1106.8 | 1109.2 | 1153.5 | 1237.5 | 1452.2 | 1270.0 |
| 35° | 1399.5 | 1404.9 | 1393.8 | 1362.4 | 1287.5 | 1182.4 | 1148.4 | 1182.7 | 1257.1 | 1507.0 | 1297.4 |
| 37.5° | 1503.4 | 1511.8 | 1514.8 | 1485.0 | 1404.9 | 1282.1 | 1212.5 | 1238.1 | 1301.3 | 1583.1 | 1347.7 |
| 40° | 1653.0 | 1664.7 | 1663.8 | 1621.1 | 1539.5 | 1416.6 | 1311.6 | 1318.2 | 1370.3 | 1684.9 | 1428.1 |
| 42.5° | 1939.6 | 1942.0 | 1867.1 | 1774.0 | 1687.6 | 1558.2 | 1428.4 | 1423.0 | 1465.4 | 1813.8 | 1546.4 |
| 45° | 2304.3 | 2294.3 | 2127.5 | 1947.8 | 1842.4 | 1720.7 | 1580.4 | 1553.9 | 1586.2 | 1971.0 | 1694.5 |
| 47.5° | 2606.9 | 2584.0 | 2373.2 | 2125.1 | 2006.2 | 1897.5 | 1759.0 | 1712.6 | 1730.4 | 2149.2 | 1886.0 |
| 50° | 2711.9 | 2694.8 | 2520.1 | 2272.6 | 2161.2 | 2113.1 | 1978.8 | 1913.1 | 1918.0 | 2361.8 | 2110.4 |
| 52.5° | 2689.4 | 2686.9 | 2570.4 | 2369.9 | 2306.4 | 2339.5 | 2290.1 | 2201.3 | 2154.3 | 2597.8 | 2352.4 |
| 55° | 2636.1 | 2641.2 | 2599.0 | 2483.1 | 2472.3 | 2558.1 | 2696.9 | 2631.2 | 2485.2 | 2836.0 | 2602.6 |
| 57.5° | 2450.9 | 2464.1 | 2556.9 | 2625.5 | 2739.3 | 2867.0 | 3024.5 | 3005.8 | 2841.4 | 3093.4 | 2900.1 |
| 60° | 1974.6 | 2005.3 | 2254.0 | 2597.8 | 3014.2 | 3413.5 | 3483.9 | 3440.6 | 3208.7 | 3412.9 | 3293.0 |
| 62.5° | 1383.5 | 1415.4 | 1711.1 | 2249.2 | 2969.1 | 4030.7 | 4305.3 | 4118.3 | 3736.3 | 3883.5 | 3801.6 |
| 65° | 740.7 | 756.0 | 981.9 | 1560.6 | 2506.6 | 4158.1 | 5505.8 | 5221.2 | 4571.5 | 4463.7 | 4236.7 |
| 67.5° | 408.6 | 417.0 | 503.4 | 788.0 | 1605.4 | 3661.6 | 6270.6 | 6485.5 | 5615.4 | 4850.0 | 4157.5 |
| 69° | 369.4 | 377.3 | 433.9 | 596.8 | 1074.3 | 3027.5 | 6195.9 | 6818.8 | 6073.0 | 4811.8 | 3864.8 |
| 70° | 361.3 | 368.5 | 419.4 | 550.1 | 869.6 | 2495.5 | 5945.7 | 6733.6 | 6182.0 | 4674.8 | 3609.5 |
| 72.5° | 325.2 | 333.0 | 382.4 | 494.1 | 743.1 | 1244.1 | 4709.7 | 5693.4 | 5612.7 | 4053.3 | 2737.8 |
| 75° | 303.2 | 310.4 | 394.1 | 483.9 | 711.5 | 787.4 | 3104.9 | 4196.0 | 4125.9 | 2835.4 | 1476.3 |
| 77.5° | 129.8 | 129.2 | 182.8 | 409.5 | 722.0 | 762.4 | 1668.4 | 2621.3 | 2391.6 | 1211.9 | 423.9 |
| 80° | 86.7 | 85.2 | 86.7 | 120.4 | 662.1 | 766.6 | 874.1 | 1330.5 | 1005.0 | 308.9 | 209.0 |
| 82.5° | 74.7 | 73.5 | 76.2 | 73.5 | 232.7 | 875.0 | 743.1 | 707.6 | 477.8 | 175.5 | 103.6 |
| 85° | 50.3 | 48.2 | 65.6 | 65.9 | 109.9 | 777.4 | 837.0 | 597.7 | 386.6 | 104.2 | 51.2 |
| 87.5° | 24.1 | 23.5 | 38.2 | 46.7 | 64.4 | 315.8 | 939.1 | 612.4 | 389.9 | 53.3 | 24.4 |
| 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: GAN-AF-01-LED-U-SL3-7060-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1588.3 | 1588.3 | 1588.3 | 1588.3 | 1588.3 | 1588.3 | 1588.3 | 1588.3 | 1588.3 | 1588.3 | 1588.3 |
| 2.5° | 1572.9 | 1560.6 | 1548.5 | 1534.1 | 1519.0 | 1502.2 | 1493.7 | 1485.3 | 1483.2 | 1480.8 | 1472.3 |
| 5° | 1529.6 | 1512.1 | 1482.0 | 1448.9 | 1413.9 | 1379.9 | 1354.0 | 1337.8 | 1325.4 | 1319.1 | 1307.9 |
| 7.5° | 1473.5 | 1448.0 | 1395.3 | 1338.1 | 1279.3 | 1225.7 | 1179.4 | 1150.2 | 1122.5 | 1109.5 | 1094.8 |
| 10° | 1420.3 | 1382.0 | 1300.1 | 1215.8 | 1131.5 | 1050.5 | 974.3 | 920.4 | 872.6 | 845.8 | 826.8 |
| 12.5° | 1374.5 | 1322.1 | 1208.6 | 1094.5 | 978.9 | 863.5 | 749.4 | 659.7 | 584.7 | 545.3 | 525.1 |
| 15° | 1329.9 | 1266.7 | 1121.6 | 976.7 | 828.3 | 671.4 | 521.5 | 419.7 | 357.7 | 333.0 | 324.6 |
| 17.5° | 1289.6 | 1208.6 | 1034.3 | 858.1 | 672.9 | 483.3 | 350.5 | 294.5 | 270.7 | 262.6 | 259.8 |
| 20° | 1245.9 | 1149.9 | 943.6 | 734.1 | 511.0 | 337.8 | 273.7 | 249.0 | 239.4 | 237.0 | 235.8 |
| 22.5° | 1203.8 | 1092.1 | 856.9 | 601.3 | 367.0 | 260.7 | 235.2 | 224.9 | 223.4 | 225.5 | 225.5 |
| 25° | 1167.9 | 1040.3 | 763.3 | 462.5 | 269.5 | 219.5 | 210.5 | 208.1 | 213.8 | 221.6 | 223.1 |
| 27.5° | 1141.1 | 997.8 | 663.6 | 341.4 | 214.7 | 190.9 | 190.6 | 194.5 | 208.7 | 223.7 | 226.7 |
| 30° | 1122.8 | 957.5 | 557.0 | 246.3 | 180.1 | 168.0 | 172.8 | 181.3 | 202.0 | 223.4 | 229.1 |
| 32.5° | 1113.4 | 927.7 | 445.9 | 190.6 | 154.2 | 147.5 | 155.7 | 165.9 | 186.4 | 206.2 | 213.8 |
| 35° | 1120.7 | 905.7 | 341.1 | 159.0 | 136.1 | 131.0 | 139.4 | 149.3 | 161.4 | 169.8 | 175.5 |
| 37.5° | 1147.8 | 897.0 | 257.4 | 142.4 | 123.7 | 118.9 | 125.6 | 131.3 | 136.1 | 138.5 | 141.2 |
| 40° | 1206.2 | 906.3 | 206.2 | 134.0 | 116.8 | 110.8 | 113.5 | 115.6 | 118.6 | 121.0 | 122.2 |
| 42.5° | 1292.3 | 934.3 | 184.9 | 130.7 | 113.2 | 104.5 | 103.9 | 104.8 | 108.7 | 113.2 | 114.1 |
| 45° | 1412.7 | 983.7 | 183.4 | 132.8 | 111.4 | 99.4 | 96.7 | 97.9 | 103.9 | 110.8 | 112.0 |
| 47.5° | 1566.6 | 1058.9 | 195.4 | 139.1 | 112.9 | 96.7 | 92.1 | 93.6 | 101.2 | 110.5 | 112.0 |
| 50° | 1753.0 | 1164.0 | 215.6 | 148.4 | 119.5 | 97.3 | 90.6 | 91.5 | 99.4 | 109.6 | 111.1 |
| 52.5° | 1973.1 | 1313.1 | 237.6 | 157.5 | 126.5 | 101.2 | 91.8 | 89.7 | 97.0 | 106.0 | 107.8 |
| 55° | 2217.8 | 1504.3 | 260.1 | 165.6 | 130.1 | 106.0 | 94.2 | 87.3 | 92.4 | 100.0 | 101.5 |
| 57.5° | 2518.3 | 1771.6 | 299.3 | 173.4 | 132.5 | 109.3 | 96.7 | 84.9 | 86.7 | 92.1 | 93.3 |
| 60° | 2925.1 | 2149.8 | 368.2 | 186.4 | 137.9 | 110.5 | 96.3 | 82.8 | 81.0 | 84.0 | 84.6 |
| 62.5° | 3412.6 | 2560.5 | 425.7 | 202.6 | 146.9 | 111.4 | 94.5 | 81.3 | 76.2 | 76.2 | 76.8 |
| 65° | 3701.9 | 2670.4 | 393.8 | 216.2 | 154.5 | 110.5 | 92.4 | 79.8 | 72.6 | 69.3 | 69.6 |
| 67.5° | 3456.5 | 2348.5 | 337.5 | 218.9 | 154.2 | 106.3 | 89.1 | 77.1 | 69.0 | 63.8 | 63.5 |
| 69° | 3149.1 | 2026.4 | 312.2 | 211.7 | 146.9 | 100.9 | 84.9 | 74.1 | 66.2 | 60.8 | 60.5 |
| 70° | 2901.3 | 1829.7 | 295.7 | 203.8 | 139.1 | 97.0 | 81.6 | 71.4 | 64.1 | 59.0 | 58.4 |
| 72.5° | 2109.5 | 1199.0 | 252.6 | 175.2 | 114.7 | 81.3 | 70.5 | 62.6 | 57.2 | 54.2 | 53.6 |
| 75° | 1054.1 | 571.8 | 205.0 | 142.1 | 87.9 | 65.0 | 57.8 | 52.4 | 49.7 | 49.1 | 48.8 |
| 77.5° | 346.3 | 262.0 | 146.6 | 106.0 | 65.3 | 50.9 | 46.7 | 42.8 | 42.2 | 44.0 | 43.4 |
| 80° | 190.3 | 152.4 | 93.0 | 70.2 | 44.6 | 37.3 | 36.7 | 34.6 | 35.5 | 38.5 | 37.9 |
| 82.5° | 97.0 | 79.2 | 57.5 | 42.2 | 30.1 | 26.8 | 29.2 | 28.0 | 29.2 | 31.9 | 31.6 |
| 85° | 47.9 | 43.4 | 36.4 | 25.6 | 19.9 | 17.2 | 20.8 | 21.7 | 22.3 | 24.4 | 24.4 |
| 87.5° | 27.7 | 25.6 | 19.3 | 12.0 | 9.9 | 9.0 | 12.0 | 11.7 | 13.9 | 15.1 | 14.8 |
| 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)