

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: P191139

Luminaire Tested: **GAN-AF-01-LED-U-SL3-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5975.1 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

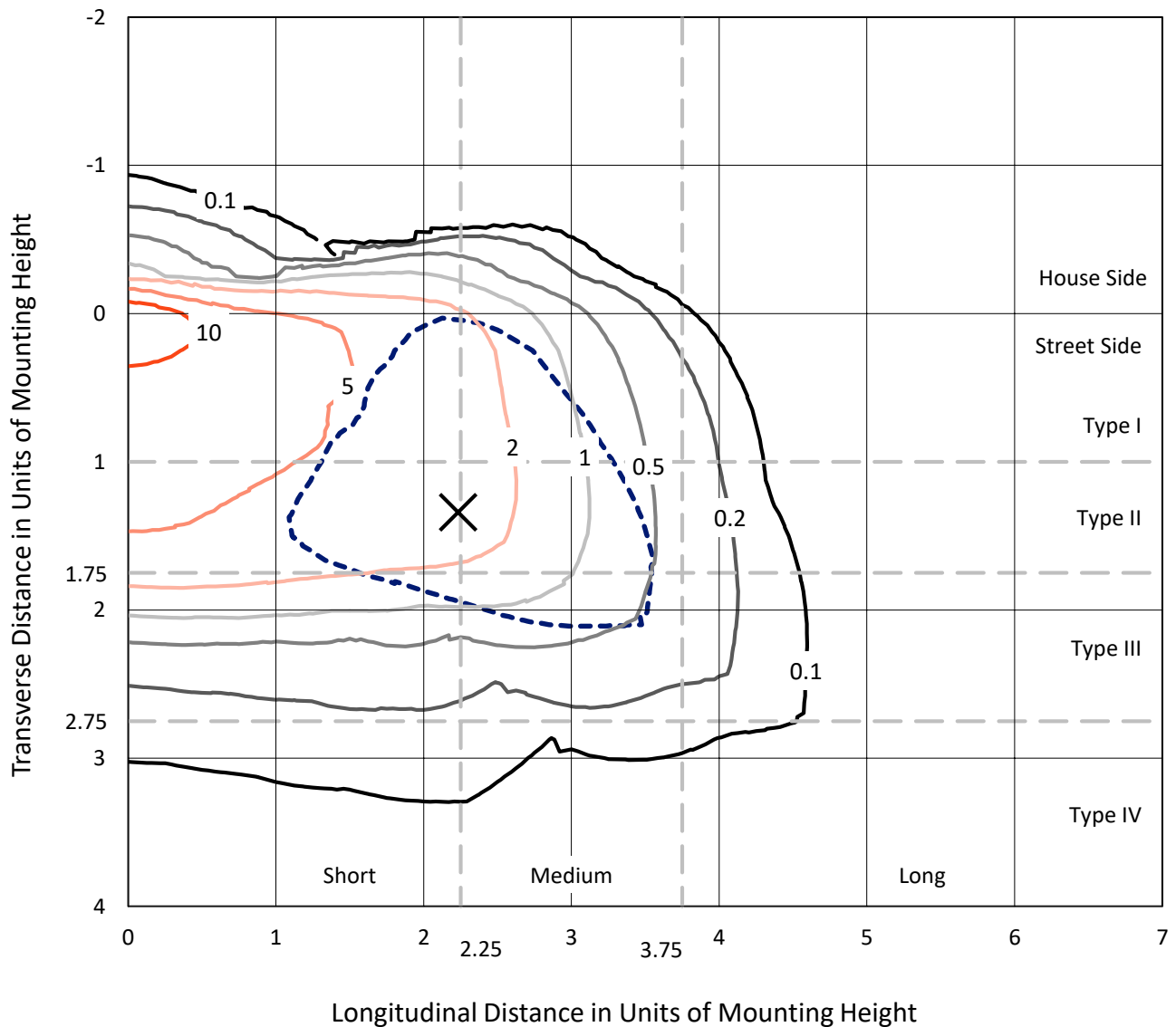
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

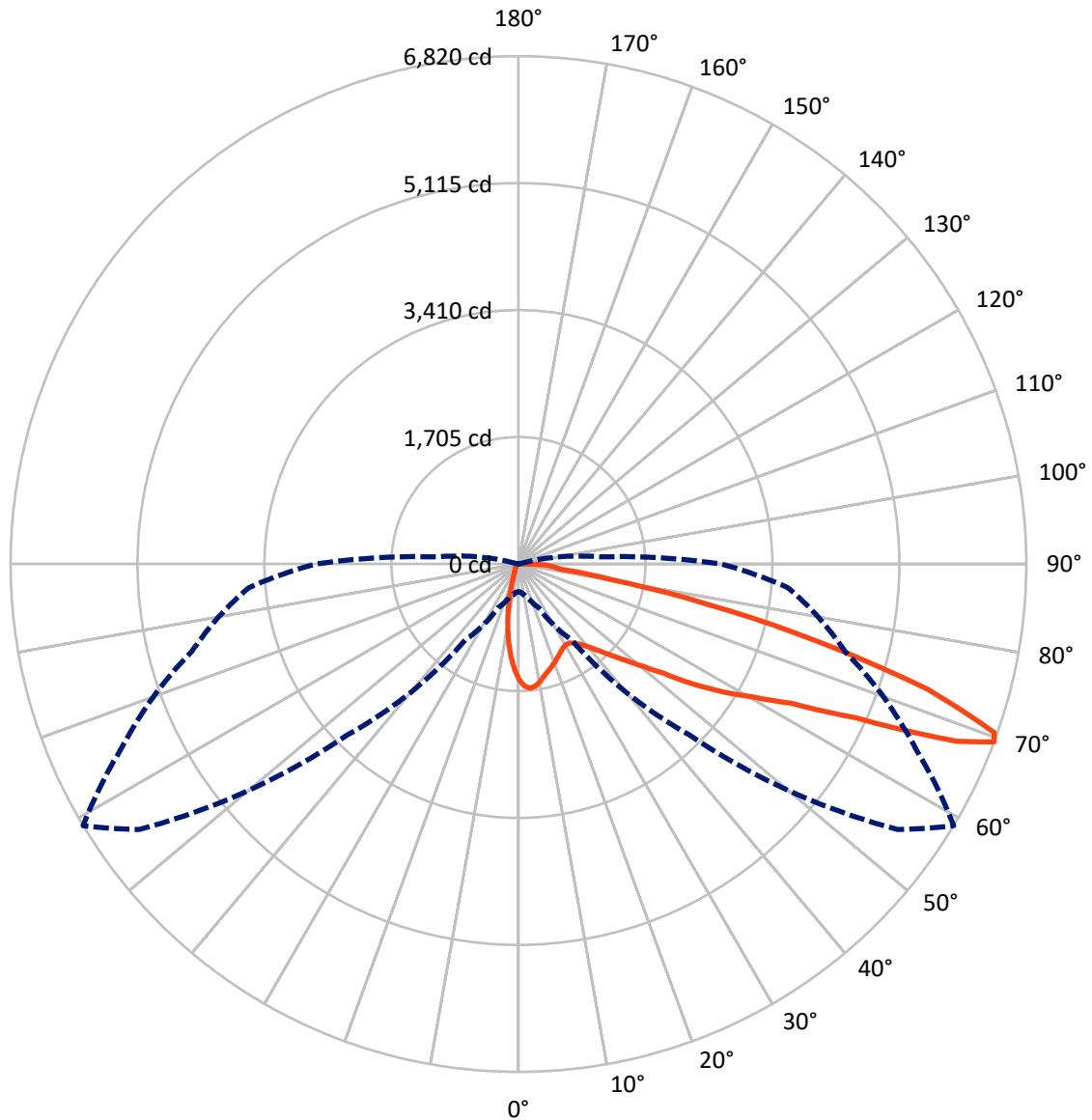


Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 486.6 | 0.0 | 486.6 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 5488.5 | 0.0 | 5488.5 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 5975.1 | 0.0 | 5975.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 126.2 | 2.1 |
| 10°-20° | 260.8 | 4.4 |
| 20°-30° | 351.0 | 5.9 |
| 30°-40° | 509.6 | 8.5 |
| 40°-50° | 848.6 | 14.2 |
| 50°-60° | 1323.7 | 22.2 |
| 60°-70° | 1638.0 | 27.4 |
| 70°-80° | 830.1 | 13.9 |
| 80°-90° | 86.9 | 1.5 |
| 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° | 5975.1 | 100.0 |
| 0°-180° | 5975.1 | 100.0 |



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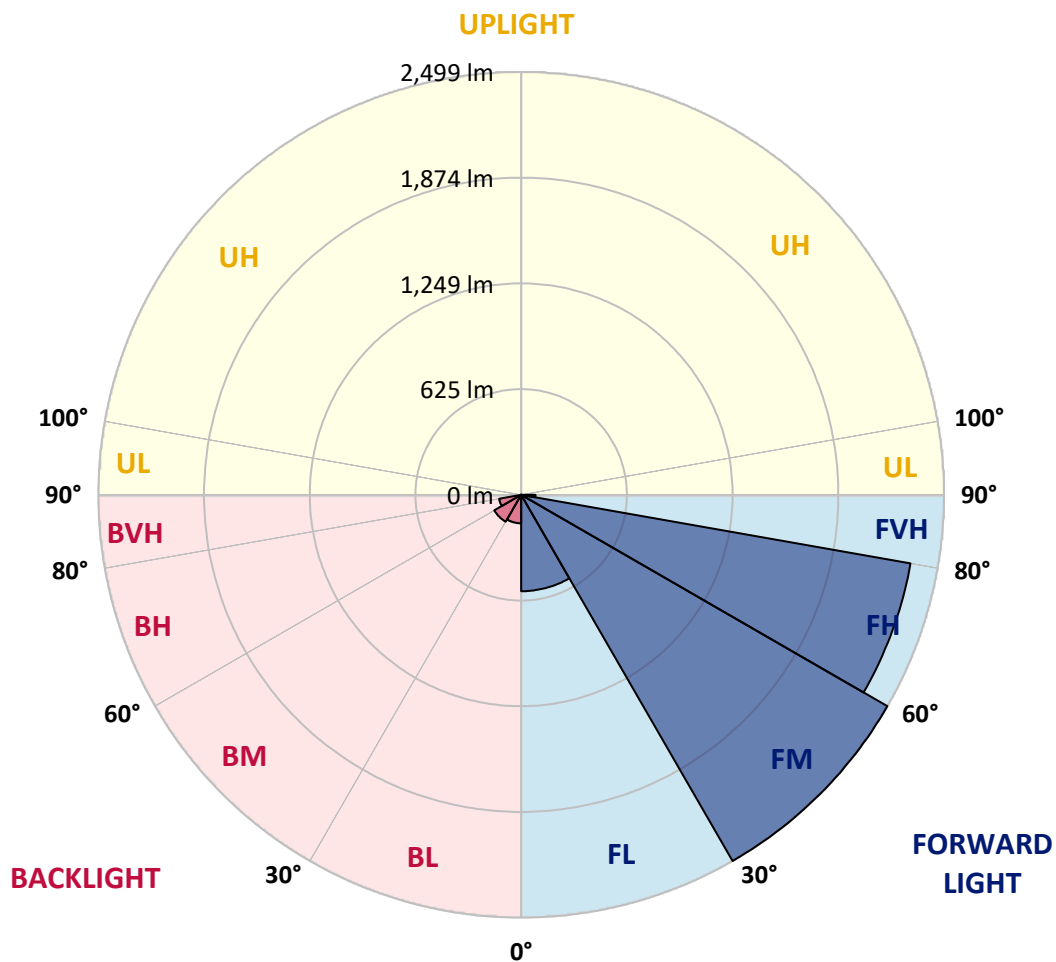
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 569.7 | 9.5 | | | |
| FM | (30°-60°) | 2498.6 | 41.8 | | | |
| FH | (60°-80°) | 2336.0 | 39.1 | | | G2/5000 |
| FVH | (80°-90°) | 84.2 | 1.4 | | | G1/100 |
| BL | (0°-30°) | 168.4 | 2.8 | B1/500 | | |
| BM | (30°-60°) | 183.3 | 3.1 | B0/220 | | |
| BH | (60°-80°) | 132.2 | 2.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 2.7 | 0.0 | | | G0/10 |
| 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1555.2 | 1555.2 | 1555.2 | 1555.2 | 1555.2 | 1555.2 | 1555.2 | 1555.2 | 1555.2 | 1555.2 | 1555.2 |
| 2.5° | 1704.5 | 1703.9 | 1696.5 | 1693.1 | 1686.9 | 1674.2 | 1654.2 | 1643.8 | 1626.9 | 1597.4 | 1558.0 |
| 5° | 1689.0 | 1697.2 | 1701.5 | 1701.9 | 1706.3 | 1701.5 | 1683.6 | 1674.9 | 1651.6 | 1604.2 | 1533.3 |
| 7.5° | 1583.6 | 1586.6 | 1599.2 | 1609.9 | 1630.9 | 1650.8 | 1657.3 | 1653.5 | 1639.7 | 1589.1 | 1494.7 |
| 10° | 1470.8 | 1473.8 | 1488.7 | 1502.8 | 1531.3 | 1561.9 | 1594.4 | 1601.2 | 1607.0 | 1567.4 | 1457.6 |
| 12.5° | 1373.4 | 1376.5 | 1391.7 | 1410.2 | 1443.4 | 1481.2 | 1531.6 | 1542.7 | 1568.1 | 1546.8 | 1427.8 |
| 15° | 1289.6 | 1291.0 | 1305.9 | 1328.8 | 1368.4 | 1417.0 | 1474.2 | 1492.1 | 1530.9 | 1532.3 | 1401.9 |
| 17.5° | 1218.3 | 1221.7 | 1230.9 | 1252.8 | 1296.1 | 1356.2 | 1422.8 | 1448.5 | 1494.0 | 1520.1 | 1376.5 |
| 20° | 1174.8 | 1178.1 | 1177.8 | 1190.0 | 1228.9 | 1293.0 | 1371.5 | 1402.2 | 1457.6 | 1507.6 | 1353.9 |
| 22.5° | 1166.4 | 1166.4 | 1157.6 | 1155.8 | 1178.8 | 1232.6 | 1318.1 | 1355.5 | 1424.8 | 1502.2 | 1338.0 |
| 25° | 1196.4 | 1195.0 | 1173.1 | 1155.2 | 1156.2 | 1188.3 | 1266.3 | 1310.9 | 1397.1 | 1505.9 | 1329.5 |
| 27.5° | 1260.0 | 1258.2 | 1230.5 | 1196.4 | 1169.0 | 1168.7 | 1227.1 | 1275.1 | 1375.2 | 1523.5 | 1332.9 |
| 30° | 1347.7 | 1347.1 | 1317.0 | 1274.1 | 1224.5 | 1178.8 | 1213.6 | 1257.2 | 1360.9 | 1555.2 | 1340.7 |
| 32.5° | 1443.7 | 1442.7 | 1420.1 | 1374.8 | 1311.9 | 1224.5 | 1227.8 | 1264.4 | 1365.0 | 1597.4 | 1359.6 |
| 35° | 1545.5 | 1543.7 | 1533.9 | 1494.4 | 1425.2 | 1308.6 | 1274.5 | 1302.8 | 1390.7 | 1660.7 | 1396.7 |
| 37.5° | 1655.5 | 1657.3 | 1664.3 | 1626.5 | 1553.9 | 1426.5 | 1352.5 | 1371.8 | 1442.4 | 1746.5 | 1457.2 |
| 40° | 1818.1 | 1817.8 | 1820.1 | 1770.4 | 1700.6 | 1570.7 | 1461.6 | 1467.7 | 1528.9 | 1860.3 | 1549.2 |
| 42.5° | 2113.0 | 2092.4 | 2029.9 | 1928.6 | 1858.3 | 1735.6 | 1599.2 | 1592.7 | 1634.7 | 2001.2 | 1677.8 |
| 45° | 2509.4 | 2465.4 | 2303.3 | 2109.0 | 2019.1 | 1921.5 | 1768.4 | 1747.8 | 1774.5 | 2170.5 | 1836.7 |
| 47.5° | 2850.2 | 2804.6 | 2575.3 | 2296.8 | 2189.7 | 2097.9 | 1966.7 | 1929.6 | 1938.4 | 2360.0 | 2038.0 |
| 50° | 2966.1 | 2943.8 | 2743.6 | 2460.4 | 2354.9 | 2319.8 | 2196.9 | 2151.6 | 2139.1 | 2579.3 | 2271.5 |
| 52.5° | 2925.9 | 2924.3 | 2790.8 | 2566.5 | 2506.3 | 2549.6 | 2486.4 | 2434.0 | 2388.1 | 2810.5 | 2509.0 |
| 55° | 2861.4 | 2869.9 | 2810.0 | 2659.4 | 2657.3 | 2759.4 | 2882.4 | 2838.8 | 2705.7 | 3061.5 | 2713.8 |
| 57.5° | 2683.4 | 2719.5 | 2799.3 | 2835.1 | 2918.2 | 3022.6 | 3212.2 | 3237.8 | 3080.4 | 3253.7 | 2883.7 |
| 60° | 2177.2 | 2256.6 | 2517.5 | 2860.4 | 3254.4 | 3514.6 | 3610.2 | 3632.1 | 3387.8 | 3413.5 | 3113.1 |
| 62.5° | 1545.5 | 1626.5 | 1957.3 | 2537.4 | 3259.4 | 4160.9 | 4203.1 | 4117.0 | 3726.4 | 3650.4 | 3508.8 |
| 65° | 820.3 | 882.9 | 1153.2 | 1831.6 | 2826.0 | 4310.9 | 5240.1 | 4983.3 | 4323.7 | 4116.3 | 4020.0 |
| 67.5° | 419.6 | 438.5 | 546.1 | 896.4 | 1942.8 | 3829.1 | 6169.5 | 6350.3 | 5353.2 | 4578.5 | 3995.3 |
| 69° | 371.3 | 382.5 | 453.8 | 648.0 | 1244.0 | 3243.3 | 6214.8 | 6819.6 | 5892.2 | 4540.0 | 3630.8 |
| 70° | 359.5 | 369.3 | 434.1 | 586.6 | 972.4 | 2719.8 | 6041.4 | 6778.4 | 6030.0 | 4393.4 | 3358.4 |
| 72.5° | 305.1 | 313.5 | 386.6 | 518.3 | 790.3 | 1350.1 | 4907.6 | 5743.9 | 5411.0 | 3659.8 | 2430.9 |
| 75° | 204.1 | 231.8 | 371.0 | 485.9 | 735.2 | 767.0 | 3235.5 | 4150.7 | 3855.8 | 2468.5 | 1266.3 |
| 77.5° | 49.0 | 52.7 | 104.8 | 386.6 | 672.4 | 675.0 | 1664.0 | 2580.3 | 2104.6 | 879.8 | 299.3 |
| 80° | 26.4 | 25.4 | 29.4 | 76.7 | 626.0 | 633.5 | 749.1 | 1252.5 | 751.5 | 146.0 | 98.6 |
| 82.5° | 18.6 | 17.6 | 18.9 | 32.1 | 197.0 | 577.0 | 542.0 | 566.9 | 311.5 | 56.1 | 44.3 |
| 85° | 6.8 | 6.4 | 10.4 | 29.1 | 61.8 | 331.7 | 556.8 | 467.6 | 252.4 | 25.7 | 32.4 |
| 87.5° | 2.4 | 2.0 | 4.1 | 15.9 | 18.9 | 141.3 | 343.6 | 353.4 | 99.3 | 15.5 | 15.2 |
| 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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CATALOG NUMBER: GAN-AF-01-LED-U-SL3-1200-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1555.2 | 1555.2 | 1555.2 | 1555.2 | 1555.2 | 1555.2 | 1555.2 | 1555.2 | 1555.2 | 1555.2 | 1555.2 |
| 2.5° | 1541.4 | 1520.4 | 1481.9 | 1442.4 | 1405.8 | 1362.0 | 1340.0 | 1318.4 | 1309.3 | 1305.9 | 1290.0 |
| 5° | 1496.8 | 1461.3 | 1379.6 | 1297.4 | 1221.7 | 1141.3 | 1088.3 | 1045.8 | 1020.7 | 1008.5 | 989.3 |
| 7.5° | 1439.7 | 1381.6 | 1257.5 | 1130.9 | 1012.9 | 896.7 | 810.6 | 744.3 | 698.7 | 676.8 | 656.8 |
| 10° | 1384.3 | 1306.9 | 1130.6 | 957.9 | 797.7 | 643.6 | 524.7 | 438.5 | 383.5 | 358.1 | 342.0 |
| 12.5° | 1334.6 | 1234.3 | 1007.9 | 789.3 | 588.2 | 407.9 | 286.8 | 218.3 | 184.1 | 172.3 | 166.5 |
| 15° | 1290.4 | 1167.4 | 892.0 | 629.1 | 398.3 | 233.1 | 156.8 | 133.5 | 128.1 | 128.1 | 127.4 |
| 17.5° | 1248.4 | 1101.8 | 780.1 | 478.7 | 250.0 | 142.6 | 119.3 | 116.2 | 116.2 | 117.5 | 117.5 |
| 20° | 1208.2 | 1039.3 | 672.0 | 343.6 | 157.4 | 113.1 | 107.8 | 107.1 | 107.8 | 109.5 | 109.5 |
| 22.5° | 1173.7 | 982.5 | 571.0 | 235.8 | 116.9 | 102.0 | 99.3 | 98.3 | 98.6 | 99.6 | 100.4 |
| 25° | 1148.1 | 934.6 | 475.8 | 159.8 | 100.7 | 92.9 | 89.9 | 88.2 | 86.8 | 86.8 | 87.5 |
| 27.5° | 1131.9 | 894.1 | 383.5 | 116.2 | 90.5 | 84.5 | 79.7 | 77.0 | 74.0 | 72.3 | 72.9 |
| 30° | 1120.0 | 855.5 | 297.0 | 94.9 | 81.1 | 75.0 | 68.9 | 64.5 | 60.1 | 58.1 | 58.8 |
| 32.5° | 1115.6 | 824.4 | 222.0 | 83.8 | 72.6 | 65.9 | 58.4 | 52.7 | 48.0 | 46.2 | 46.6 |
| 35° | 1127.5 | 799.7 | 162.5 | 75.7 | 65.9 | 57.4 | 49.0 | 42.6 | 38.9 | 37.8 | 38.2 |
| 37.5° | 1158.6 | 786.5 | 121.6 | 68.9 | 59.8 | 50.3 | 40.9 | 34.8 | 32.4 | 32.4 | 32.7 |
| 40° | 1217.3 | 786.2 | 97.7 | 64.2 | 54.4 | 43.6 | 33.8 | 29.4 | 28.0 | 28.7 | 29.1 |
| 42.5° | 1303.1 | 804.1 | 85.1 | 59.8 | 49.7 | 37.1 | 28.0 | 25.0 | 24.7 | 25.4 | 25.7 |
| 45° | 1420.4 | 836.9 | 78.4 | 56.1 | 44.6 | 31.1 | 23.6 | 21.6 | 21.6 | 22.6 | 23.0 |
| 47.5° | 1564.0 | 884.9 | 72.6 | 52.4 | 39.5 | 26.0 | 20.3 | 18.9 | 19.2 | 20.3 | 20.6 |
| 50° | 1737.0 | 945.4 | 66.9 | 48.3 | 35.8 | 21.6 | 17.6 | 16.6 | 16.9 | 18.2 | 18.6 |
| 52.5° | 1934.0 | 1026.8 | 62.2 | 44.6 | 31.1 | 17.9 | 14.8 | 14.2 | 14.8 | 16.3 | 16.6 |
| 55° | 2102.9 | 1099.8 | 56.5 | 41.5 | 25.0 | 14.8 | 12.2 | 12.2 | 12.9 | 14.5 | 14.8 |
| 57.5° | 2265.4 | 1176.1 | 51.4 | 35.8 | 19.6 | 11.9 | 10.1 | 10.4 | 11.5 | 13.2 | 13.5 |
| 60° | 2504.0 | 1305.5 | 45.3 | 30.1 | 14.8 | 9.4 | 8.5 | 8.8 | 10.1 | 11.9 | 12.2 |
| 62.5° | 2909.1 | 1502.5 | 39.2 | 25.0 | 11.5 | 7.5 | 6.8 | 7.5 | 9.1 | 11.2 | 11.5 |
| 65° | 3274.7 | 1582.6 | 32.1 | 21.0 | 8.8 | 5.7 | 5.7 | 6.8 | 8.8 | 10.8 | 11.2 |
| 67.5° | 3070.9 | 1332.2 | 25.0 | 16.6 | 6.8 | 4.4 | 4.7 | 6.4 | 8.5 | 10.8 | 11.2 |
| 69° | 2715.8 | 1089.3 | 21.3 | 13.2 | 5.7 | 4.1 | 4.4 | 6.4 | 8.5 | 10.4 | 10.8 |
| 70° | 2439.1 | 919.7 | 18.9 | 11.2 | 5.1 | 4.1 | 4.4 | 6.0 | 8.5 | 10.4 | 10.8 |
| 72.5° | 1633.7 | 496.6 | 15.2 | 8.1 | 4.7 | 3.7 | 3.7 | 6.0 | 8.1 | 10.1 | 10.4 |
| 75° | 702.1 | 137.2 | 12.2 | 5.7 | 4.1 | 3.4 | 3.4 | 5.7 | 7.8 | 9.8 | 10.4 |
| 77.5° | 128.4 | 34.8 | 9.8 | 5.1 | 4.1 | 3.4 | 3.1 | 5.4 | 7.5 | 9.4 | 9.8 |
| 80° | 51.0 | 17.2 | 7.8 | 4.4 | 3.7 | 3.1 | 2.7 | 5.1 | 7.1 | 9.1 | 9.4 |
| 82.5° | 30.8 | 9.8 | 6.4 | 4.1 | 3.7 | 2.7 | 2.4 | 4.4 | 6.8 | 8.8 | 9.1 |
| 85° | 25.0 | 6.8 | 5.1 | 4.1 | 3.4 | 2.7 | 2.0 | 4.1 | 6.0 | 8.5 | 8.8 |
| 87.5° | 12.2 | 4.7 | 4.7 | 3.7 | 3.4 | 2.7 | 2.0 | 3.7 | 5.7 | 8.1 | 8.5 |
| 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)