

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: P190958

Luminaire Tested: **GAN-AF-10-LED-U-AFL-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-AFL-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40738 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

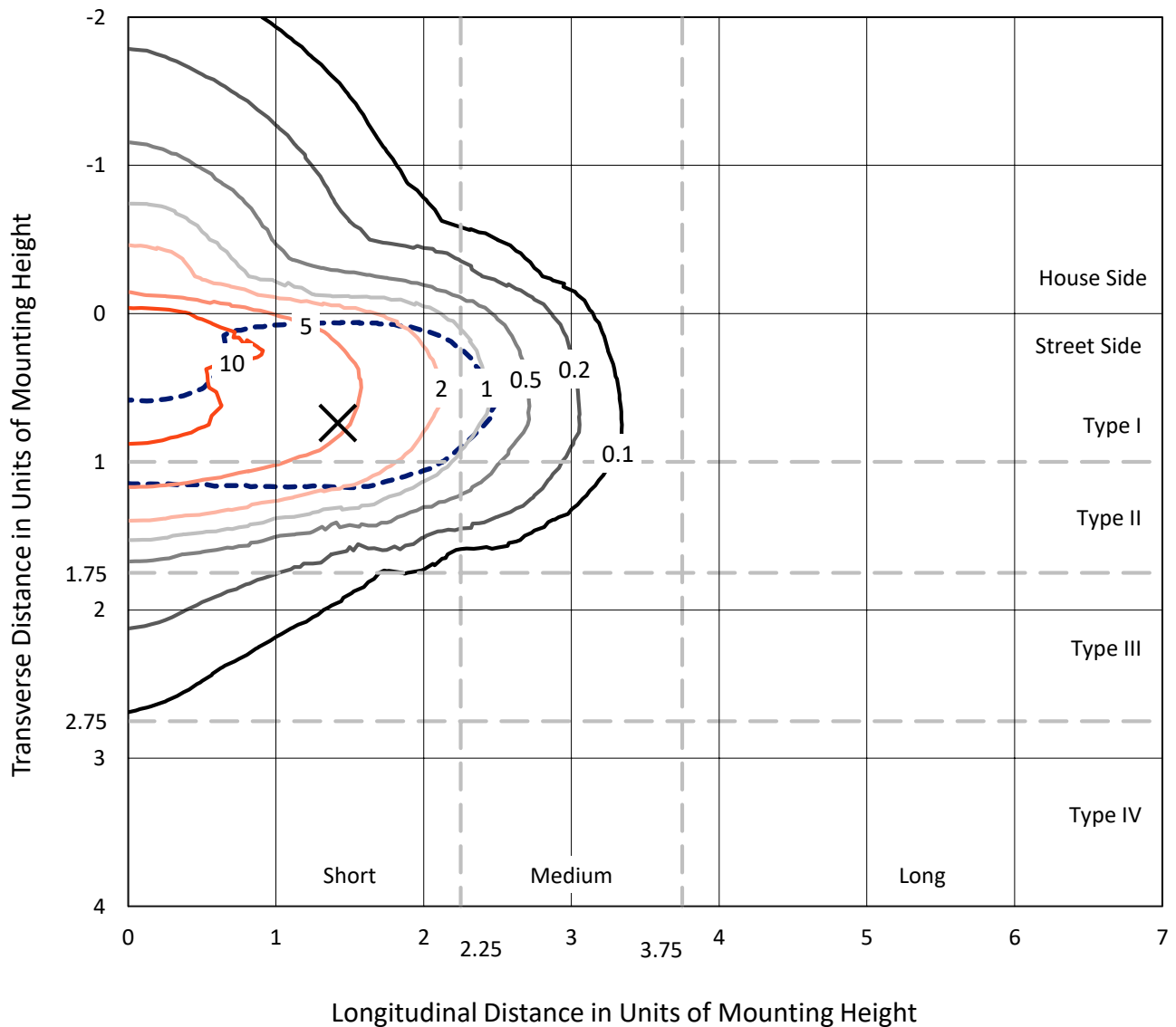
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

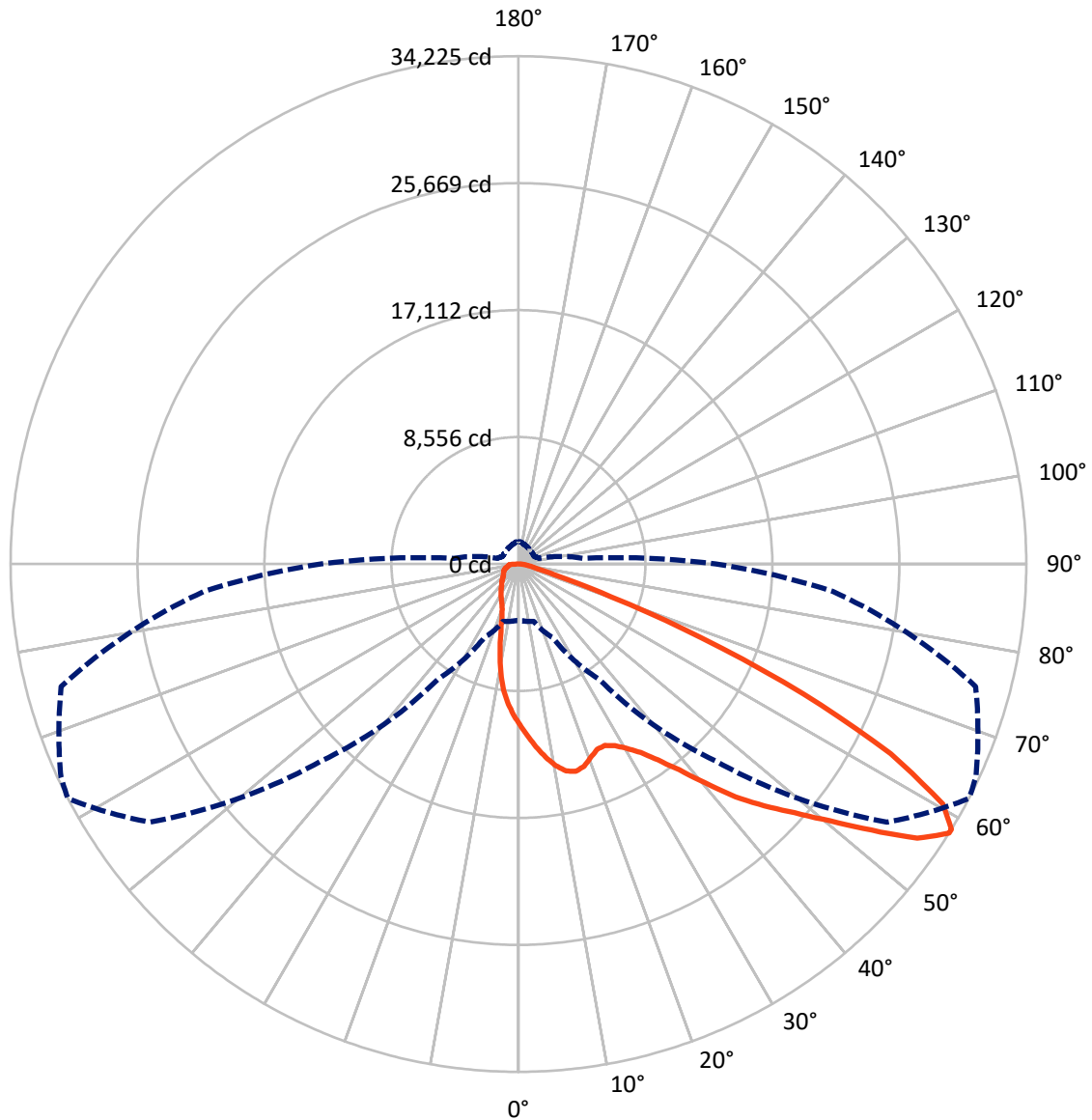
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6212.7 | 0.0 | 6212.7 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 34525.3 | 0.0 | 34525.3 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 40738.0 | 0.0 | 40738.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 967.8 | 2.4 |
| 10°-20° | 2473.8 | 6.1 |
| 20°-30° | 3999.1 | 9.8 |
| 30°-40° | 6348.5 | 15.6 |
| 40°-50° | 9289.1 | 22.8 |
| 50°-60° | 9715.6 | 23.8 |
| 60°-70° | 5740.0 | 14.1 |
| 70°-80° | 1617.0 | 4.0 |
| 80°-90° | 587.1 | 1.4 |
| 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° | 40738.0 | 100.0 |
| 0°-180° | 40738.0 | 100.0 |



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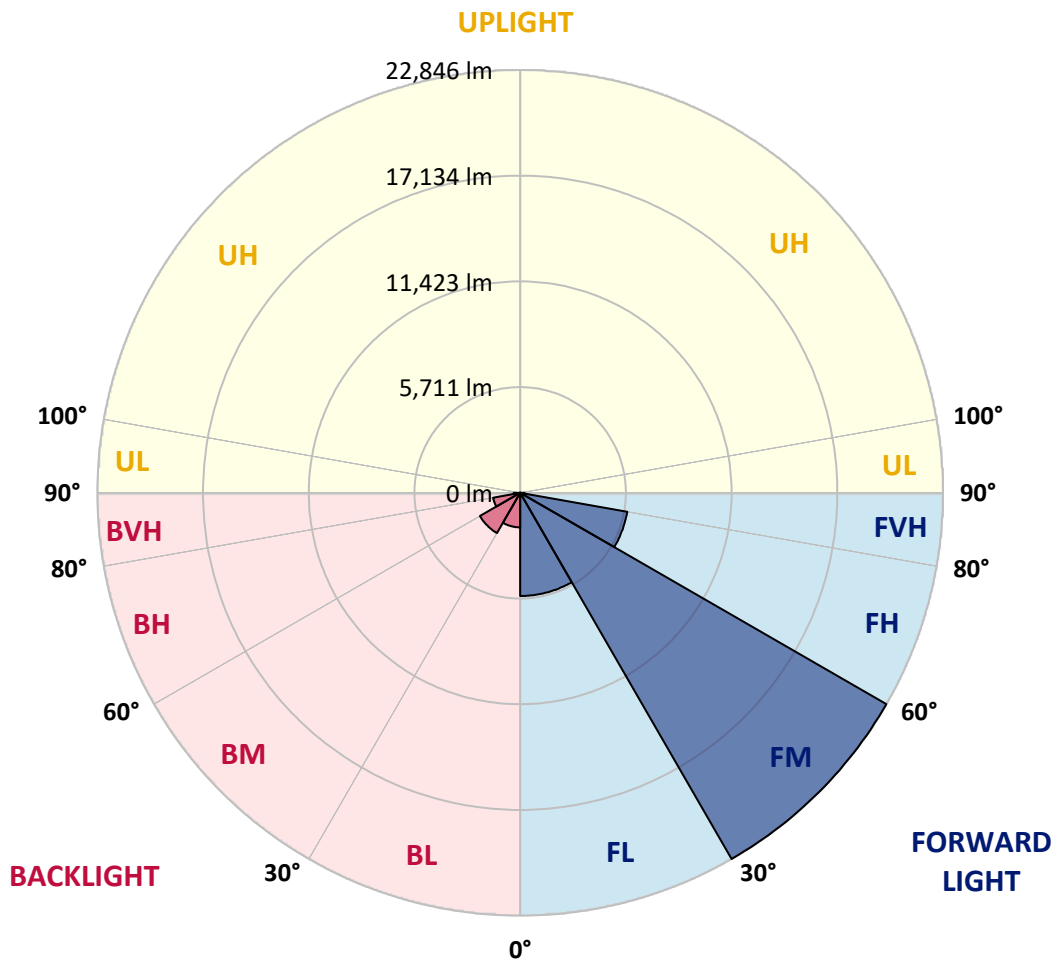
CATALOG NUMBER: GAN-AF-10-LED-U-AFL-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 5573.5 | 13.7 | | | |
| FM | (30°-60°) | 22845.6 | 56.1 | | | |
| FH | (60°-80°) | 5874.6 | 14.4 | | | G3/7500 |
| FVH | (80°-90°) | 231.6 | 0.6 | | | G3/500 |
| BL | (0°-30°) | 1867.2 | 4.6 | B3/2500 | | |
| BM | (30°-60°) | 2507.6 | 6.2 | B3/5000 | | |
| BH | (60°-80°) | 1482.4 | 3.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 355.5 | 0.9 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 62.5° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10821.2 | 10821.2 | 10821.2 | 10821.2 | 10821.2 | 10821.2 | 10821.2 | 10821.2 | 10821.2 | 10821.2 | 10821.2 |
| 2.5° | 12365.4 | 12265.7 | 12202.4 | 12146.8 | 12073.9 | 11918.5 | 11709.4 | 11577.0 | 11509.9 | 11281.6 | 11011.1 |
| 5° | 13577.8 | 13489.6 | 13424.4 | 13349.5 | 13219.1 | 12975.5 | 12637.8 | 12369.3 | 12236.9 | 11780.4 | 11239.4 |
| 7.5° | 13294.0 | 13330.4 | 13443.5 | 13641.2 | 13809.9 | 13777.3 | 13476.1 | 13134.7 | 12960.2 | 12325.2 | 11504.1 |
| 10° | 11582.8 | 11646.1 | 11841.8 | 12304.1 | 13052.2 | 13819.6 | 14053.6 | 13817.6 | 13641.2 | 12864.2 | 11776.5 |
| 12.5° | 11239.4 | 11237.5 | 11252.9 | 11375.6 | 11820.7 | 12900.6 | 14072.7 | 14310.7 | 14205.1 | 13378.4 | 12054.7 |
| 15° | 11379.4 | 11383.3 | 11371.7 | 11423.6 | 11561.7 | 11989.5 | 13485.8 | 14500.5 | 14575.4 | 13896.3 | 12342.4 |
| 17.5° | 11747.8 | 11738.2 | 11694.1 | 11694.1 | 11743.9 | 11910.8 | 12795.2 | 14324.1 | 14669.3 | 14354.8 | 12595.7 |
| 20° | 12365.4 | 12321.3 | 12204.3 | 12096.9 | 12043.2 | 12133.3 | 12511.3 | 13917.3 | 14506.3 | 14755.7 | 12804.8 |
| 22.5° | 13113.6 | 13079.0 | 12889.2 | 12658.9 | 12472.8 | 12471.0 | 12657.1 | 13562.5 | 14224.3 | 15133.6 | 12981.2 |
| 25° | 14080.4 | 14024.8 | 13742.8 | 13374.5 | 13048.4 | 12923.7 | 12975.5 | 13545.2 | 14070.9 | 15544.1 | 13138.6 |
| 27.5° | 15216.1 | 15114.4 | 14780.6 | 14249.3 | 13769.6 | 13518.4 | 13443.5 | 13857.9 | 14210.8 | 16052.5 | 13357.3 |
| 30° | 16593.4 | 16476.4 | 16048.7 | 15356.1 | 14678.9 | 14266.5 | 14107.3 | 14412.4 | 14675.2 | 16672.1 | 13708.3 |
| 32.5° | 18160.7 | 17991.9 | 17497.0 | 16733.4 | 15843.4 | 15214.1 | 14955.2 | 15145.1 | 15354.2 | 17418.3 | 14147.6 |
| 35° | 20326.4 | 20125.0 | 19409.5 | 18356.3 | 17351.2 | 16486.0 | 16071.7 | 16209.8 | 16413.1 | 18531.0 | 14782.6 |
| 37.5° | 21803.6 | 21713.5 | 21237.7 | 20247.8 | 19154.3 | 18158.8 | 17518.0 | 17598.6 | 17713.7 | 19921.7 | 15595.9 |
| 40° | 21790.2 | 21826.6 | 21836.2 | 21845.7 | 21101.4 | 20148.0 | 19459.4 | 19375.0 | 19352.0 | 21448.7 | 16520.6 |
| 42.5° | 20698.6 | 20848.2 | 21331.7 | 22311.9 | 22764.6 | 22327.2 | 21696.2 | 21452.5 | 21331.7 | 23248.1 | 17500.7 |
| 45° | 19027.8 | 19108.3 | 20013.8 | 21928.3 | 23616.4 | 24485.4 | 24007.7 | 23240.4 | 23021.7 | 24901.7 | 18314.2 |
| 47.5° | 18166.5 | 18254.7 | 18824.4 | 20911.6 | 23606.8 | 26229.2 | 26505.4 | 25043.6 | 24652.3 | 26340.4 | 19016.2 |
| 50° | 16115.8 | 16299.9 | 17017.4 | 19142.9 | 22745.5 | 27031.0 | 29116.1 | 27192.1 | 26382.6 | 27740.8 | 19720.2 |
| 52.5° | 12350.1 | 12634.1 | 13437.8 | 16234.7 | 20560.5 | 26633.9 | 31205.2 | 29797.2 | 28653.9 | 29191.0 | 20324.6 |
| 55° | 7790.3 | 8001.3 | 8676.6 | 11465.7 | 16447.6 | 24567.9 | 31997.5 | 32615.3 | 31598.5 | 30564.5 | 20848.2 |
| 57.5° | 4235.6 | 4329.6 | 4582.8 | 6330.4 | 10698.4 | 20000.3 | 30842.7 | 34218.9 | 33796.9 | 31730.8 | 21243.4 |
| 58° | 3790.5 | 3853.9 | 4011.2 | 5486.4 | 9488.0 | 18751.5 | 30330.5 | 34224.7 | 34013.6 | 31901.5 | 21274.1 |
| 60° | 2812.3 | 2779.7 | 2639.6 | 3130.7 | 5281.1 | 12954.3 | 27234.3 | 32855.0 | 33474.6 | 32110.7 | 21124.4 |
| 62.5° | 2470.8 | 2392.2 | 2106.4 | 2073.7 | 2568.6 | 5967.9 | 20838.6 | 28143.6 | 29607.3 | 30917.5 | 20215.2 |
| 65° | 2321.2 | 2236.8 | 1868.4 | 1749.6 | 1853.1 | 2524.5 | 12275.3 | 21107.3 | 22943.0 | 27299.6 | 17890.2 |
| 67.5° | 2209.9 | 2100.5 | 1716.9 | 1553.9 | 1561.5 | 1668.9 | 4920.5 | 13294.0 | 15359.9 | 20727.4 | 13915.5 |
| 70° | 2102.5 | 1983.5 | 1588.3 | 1400.4 | 1356.2 | 1319.8 | 1956.7 | 6654.6 | 8528.9 | 13092.5 | 8872.3 |
| 72.5° | 1987.4 | 1870.4 | 1475.2 | 1279.5 | 1193.2 | 1072.4 | 1277.6 | 2722.1 | 3802.1 | 6194.3 | 4024.6 |
| 75° | 1820.4 | 1715.0 | 1362.0 | 1172.1 | 1049.3 | 888.2 | 964.9 | 1421.5 | 1705.4 | 2466.9 | 1939.4 |
| 77.5° | 1615.2 | 1528.9 | 1235.4 | 1083.8 | 930.4 | 721.3 | 742.4 | 986.0 | 1093.4 | 1411.9 | 1152.9 |
| 80° | 1160.5 | 1191.2 | 1099.2 | 974.5 | 828.7 | 585.1 | 569.8 | 719.3 | 776.9 | 907.4 | 750.0 |
| 82.5° | 815.3 | 832.6 | 909.3 | 796.1 | 684.9 | 460.4 | 420.1 | 506.5 | 540.9 | 596.6 | 404.8 |
| 85° | 562.1 | 542.9 | 623.5 | 554.4 | 494.9 | 306.9 | 287.8 | 343.4 | 364.5 | 370.2 | 209.1 |
| 87.5° | 337.6 | 337.6 | 360.7 | 297.4 | 266.7 | 159.2 | 155.4 | 195.7 | 209.1 | 199.5 | 115.1 |
| 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: GAN-AF-10-LED-U-AFL-600

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10821.2 | 10821.2 | 10821.2 | 10821.2 | 10821.2 | 10821.2 | 10821.2 | 10821.2 | 10821.2 | 10821.2 | 10821.2 |
| 2.5° | 10850.0 | 10713.8 | 10424.2 | 10192.0 | 9898.5 | 9593.5 | 9422.8 | 9240.5 | 9115.8 | 9025.7 | 9169.5 |
| 5° | 10932.5 | 10654.3 | 10055.8 | 9488.0 | 8860.7 | 8208.5 | 7713.6 | 7253.1 | 6932.7 | 6733.3 | 6921.3 |
| 7.5° | 11062.9 | 10635.1 | 9681.7 | 8711.0 | 7585.0 | 6499.2 | 5528.5 | 4920.5 | 4565.6 | 4391.0 | 4500.4 |
| 10° | 11212.6 | 10604.4 | 9242.5 | 7657.9 | 6046.6 | 4678.8 | 3953.6 | 3708.1 | 3627.5 | 3595.0 | 3610.3 |
| 12.5° | 11337.3 | 10539.3 | 8703.4 | 6384.1 | 4540.7 | 3694.7 | 3485.6 | 3479.9 | 3497.1 | 3500.9 | 3506.7 |
| 15° | 11425.4 | 10443.3 | 7903.4 | 5056.7 | 3631.4 | 3366.6 | 3355.2 | 3389.6 | 3422.3 | 3435.7 | 3443.4 |
| 17.5° | 11485.0 | 10245.8 | 7000.0 | 3997.8 | 3253.5 | 3207.5 | 3234.3 | 3278.4 | 3312.9 | 3322.5 | 3330.2 |
| 20° | 11479.2 | 9956.1 | 5923.8 | 3334.0 | 3048.2 | 3048.2 | 3094.2 | 3128.8 | 3130.7 | 3119.2 | 3124.9 |
| 22.5° | 11419.7 | 9559.0 | 4880.2 | 2981.1 | 2866.0 | 2898.5 | 2944.6 | 2912.0 | 2777.7 | 2689.4 | 2695.3 |
| 25° | 11320.0 | 9085.1 | 3986.2 | 2756.6 | 2697.1 | 2754.7 | 2741.3 | 2495.7 | 2303.9 | 2217.6 | 2217.6 |
| 27.5° | 11231.7 | 8525.0 | 3299.5 | 2561.0 | 2528.3 | 2599.3 | 2361.5 | 2138.9 | 2058.4 | 2018.1 | 2004.7 |
| 30° | 11168.5 | 7920.7 | 2841.0 | 2372.9 | 2369.2 | 2317.3 | 2048.8 | 1987.4 | 1974.0 | 1941.4 | 1929.8 |
| 32.5° | 11183.8 | 7308.8 | 2547.6 | 2207.9 | 2221.4 | 1983.5 | 1899.1 | 1912.6 | 1901.1 | 1866.5 | 1851.1 |
| 35° | 11310.4 | 6727.5 | 2355.7 | 2058.4 | 2018.1 | 1791.7 | 1810.9 | 1835.8 | 1832.0 | 1784.0 | 1768.7 |
| 37.5° | 11536.7 | 6177.0 | 2229.1 | 1933.7 | 1761.0 | 1695.7 | 1726.4 | 1764.9 | 1755.3 | 1722.6 | 1711.1 |
| 40° | 11774.6 | 5659.1 | 2125.5 | 1835.8 | 1609.5 | 1630.6 | 1657.4 | 1678.6 | 1688.1 | 1697.7 | 1690.0 |
| 42.5° | 12006.8 | 5118.0 | 1998.8 | 1736.0 | 1546.2 | 1569.2 | 1580.7 | 1601.8 | 1653.6 | 1690.0 | 1688.1 |
| 45° | 12144.9 | 4609.7 | 1868.4 | 1594.2 | 1496.3 | 1509.7 | 1502.0 | 1544.2 | 1607.6 | 1667.0 | 1668.9 |
| 47.5° | 12298.3 | 4214.6 | 1764.9 | 1463.6 | 1448.3 | 1457.9 | 1434.9 | 1477.1 | 1534.6 | 1607.6 | 1615.2 |
| 50° | 12484.4 | 3978.6 | 1682.3 | 1360.1 | 1383.1 | 1383.1 | 1377.3 | 1415.8 | 1496.3 | 1580.7 | 1596.0 |
| 52.5° | 12695.4 | 3932.5 | 1613.3 | 1285.2 | 1317.9 | 1315.9 | 1321.8 | 1379.2 | 1467.5 | 1550.0 | 1563.5 |
| 55° | 12952.5 | 4057.2 | 1538.5 | 1229.7 | 1254.5 | 1262.2 | 1281.5 | 1346.6 | 1421.5 | 1515.5 | 1521.2 |
| 57.5° | 13251.7 | 4310.4 | 1479.0 | 1185.5 | 1197.1 | 1222.0 | 1252.7 | 1312.1 | 1392.7 | 1496.3 | 1502.0 |
| 58° | 13301.6 | 4364.2 | 1469.5 | 1181.7 | 1185.5 | 1214.3 | 1248.8 | 1306.4 | 1386.9 | 1500.2 | 1505.9 |
| 60° | 13303.5 | 4542.6 | 1448.3 | 1164.4 | 1141.4 | 1189.4 | 1227.7 | 1285.2 | 1377.3 | 1513.6 | 1527.0 |
| 62.5° | 12831.6 | 4540.7 | 1432.9 | 1139.5 | 1095.4 | 1154.8 | 1198.9 | 1266.1 | 1367.8 | 1546.2 | 1573.0 |
| 65° | 11298.9 | 4126.3 | 1360.1 | 1101.1 | 1059.0 | 1124.1 | 1174.0 | 1252.7 | 1394.6 | 1688.1 | 1705.4 |
| 67.5° | 8837.7 | 3382.0 | 1223.9 | 1047.4 | 1011.0 | 1093.4 | 1158.7 | 1250.8 | 1423.4 | 1720.7 | 1732.3 |
| 70° | 5843.2 | 2530.3 | 1074.3 | 986.0 | 961.1 | 1057.0 | 1166.4 | 1315.9 | 1390.8 | 1651.7 | 1621.0 |
| 72.5° | 3032.8 | 1776.4 | 953.4 | 909.3 | 903.6 | 1024.4 | 1277.6 | 1308.3 | 1358.2 | 1553.9 | 1515.5 |
| 75° | 1592.2 | 1233.5 | 847.9 | 824.9 | 834.4 | 1016.7 | 1507.8 | 1273.8 | 1315.9 | 1486.7 | 1559.6 |
| 77.5° | 974.5 | 995.6 | 757.7 | 748.2 | 767.3 | 993.7 | 1505.9 | 1229.7 | 1254.5 | 1367.8 | 1448.3 |
| 80° | 652.2 | 807.6 | 688.7 | 690.6 | 704.0 | 909.3 | 1352.4 | 1160.5 | 1179.8 | 1292.9 | 1375.5 |
| 82.5° | 412.5 | 477.6 | 625.3 | 658.0 | 640.7 | 750.0 | 1149.1 | 1057.0 | 1083.8 | 1479.0 | 1563.5 |
| 85° | 209.1 | 299.2 | 542.9 | 633.0 | 577.5 | 525.6 | 932.3 | 926.6 | 940.0 | 1066.6 | 1114.5 |
| 87.5° | 96.0 | 165.0 | 423.9 | 552.5 | 435.5 | 328.1 | 677.2 | 686.7 | 740.5 | 757.7 | 757.7 |
| 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)