

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: P190955

Luminaire Tested: **GAN-AF-07-LED-U-AFL-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190955
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-07-LED-U-AFL-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 29112.2 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

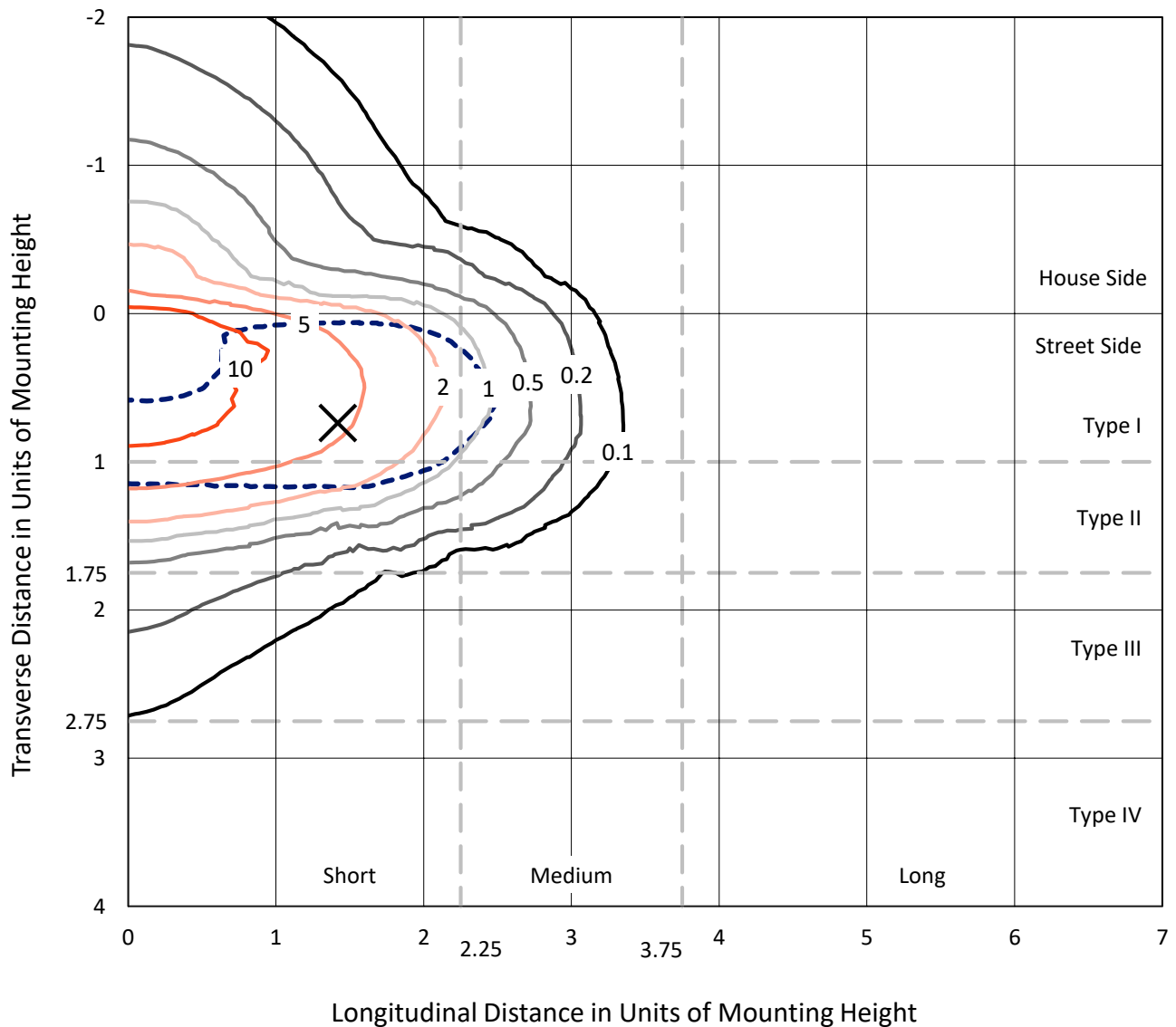
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

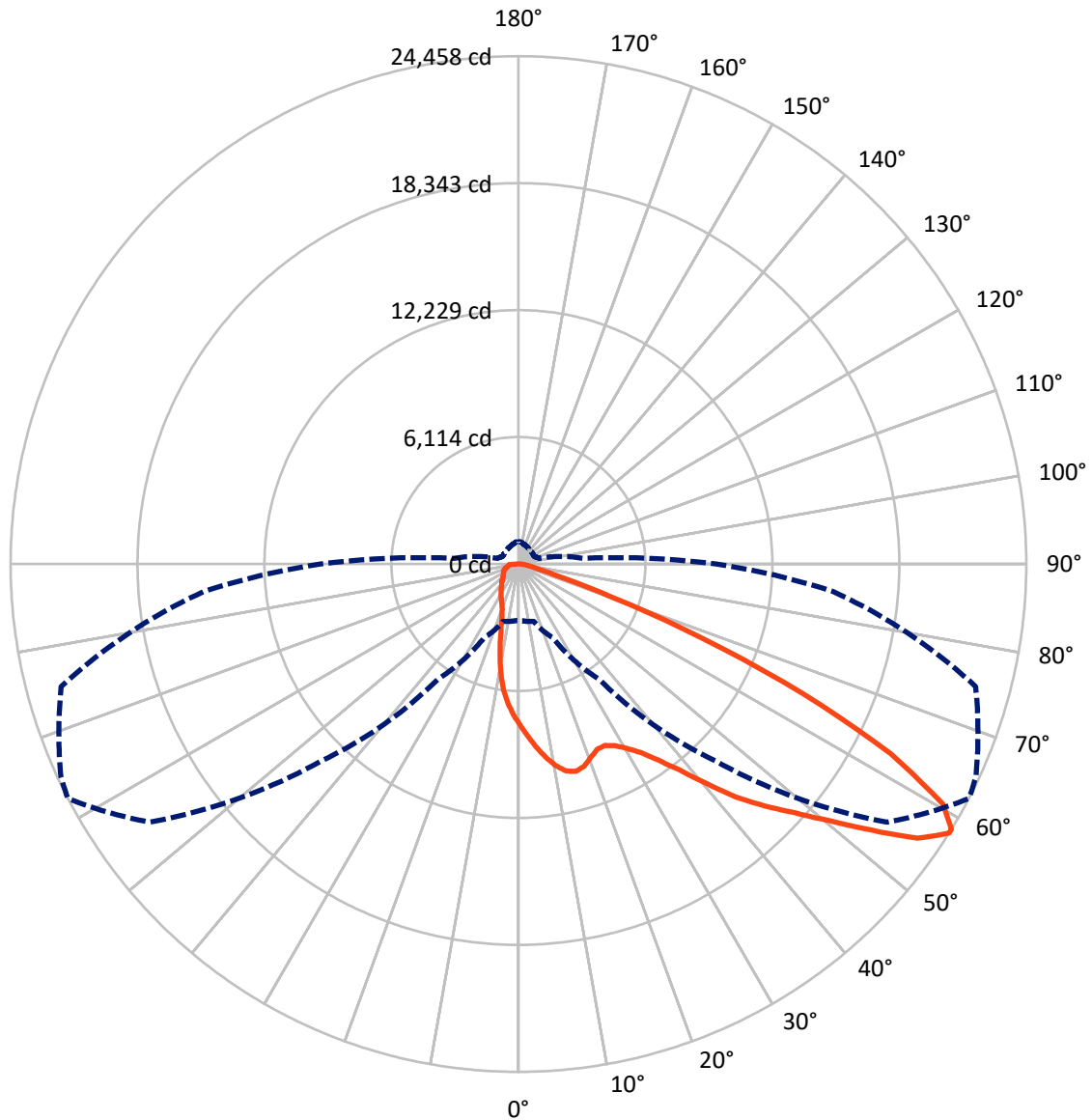
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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 | 4439.7 | 0.0 | 4439.7 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 24672.4 | 0.0 | 24672.4 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 29112.2 | 0.0 | 29112.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 691.6 | 2.4 |
| 10°-20° | 1767.9 | 6.1 |
| 20°-30° | 2857.8 | 9.8 |
| 30°-40° | 4536.7 | 15.6 |
| 40°-50° | 6638.2 | 22.8 |
| 50°-60° | 6943.0 | 23.8 |
| 60°-70° | 4101.9 | 14.1 |
| 70°-80° | 1155.5 | 4.0 |
| 80°-90° | 419.5 | 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° | 29112.2 | 100.0 |
| 0°-180° | 29112.2 | 100.0 |



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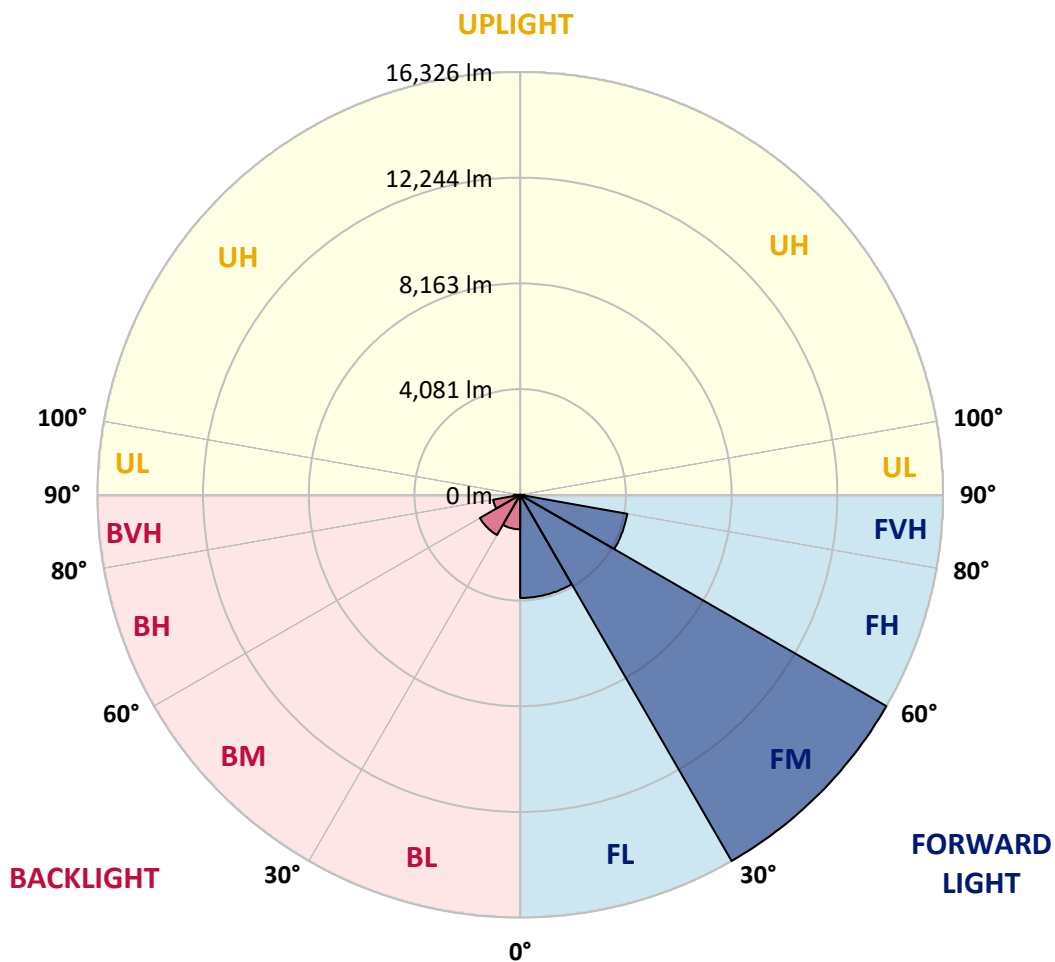
CATALOG NUMBER: GAN-AF-07-LED-U-AFL-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3982.9 | 13.7 | | | |
| FM (30°-60°) | 16325.9 | 56.1 | | | |
| FH (60°-80°) | 4198.1 | 14.4 | | | G2/5000 |
| FVH (80°-90°) | 165.5 | 0.6 | | | G2/225 |
| BL (0°-30°) | 1334.4 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 1792.0 | 6.2 | B2/2500 | | |
| BH (60°-80°) | 1059.4 | 3.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 254.0 | 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° | 7733.1 | 7733.1 | 7733.1 | 7733.1 | 7733.1 | 7733.1 | 7733.1 | 7733.1 | 7733.1 | 7733.1 | 7733.1 |
| 2.5° | 8836.6 | 8765.4 | 8720.0 | 8680.4 | 8628.2 | 8517.2 | 8367.7 | 8273.2 | 8225.2 | 8062.1 | 7868.7 |
| 5° | 9703.0 | 9639.9 | 9593.3 | 9539.8 | 9446.6 | 9272.5 | 9031.2 | 8839.3 | 8744.8 | 8418.5 | 8031.9 |
| 7.5° | 9500.1 | 9526.1 | 9607.0 | 9748.2 | 9868.8 | 9845.6 | 9630.4 | 9386.3 | 9261.6 | 8807.8 | 8221.0 |
| 10° | 8277.3 | 8322.5 | 8462.4 | 8792.8 | 9327.4 | 9875.7 | 10042.9 | 9874.3 | 9748.2 | 9193.1 | 8415.7 |
| 12.5° | 8031.9 | 8030.6 | 8041.5 | 8129.2 | 8447.3 | 9219.0 | 10056.6 | 10226.6 | 10151.3 | 9560.4 | 8614.5 |
| 15° | 8131.9 | 8134.7 | 8126.5 | 8163.5 | 8262.2 | 8567.9 | 9637.2 | 10362.4 | 10415.8 | 9930.5 | 8820.2 |
| 17.5° | 8395.2 | 8388.3 | 8356.8 | 8356.8 | 8392.4 | 8511.7 | 9143.6 | 10236.3 | 10483.0 | 10258.2 | 9001.1 |
| 20° | 8836.6 | 8805.0 | 8721.5 | 8644.7 | 8606.3 | 8670.7 | 8940.8 | 9945.6 | 10366.5 | 10544.7 | 9150.5 |
| 22.5° | 9371.3 | 9346.6 | 9210.9 | 9046.4 | 8913.4 | 8911.9 | 9044.9 | 9692.0 | 10165.0 | 10814.7 | 9276.6 |
| 25° | 10062.2 | 10022.4 | 9820.8 | 9557.6 | 9324.6 | 9235.5 | 9272.5 | 9679.7 | 10055.3 | 11108.1 | 9389.1 |
| 27.5° | 10873.7 | 10801.0 | 10562.5 | 10182.8 | 9840.1 | 9660.4 | 9607.0 | 9903.1 | 10155.3 | 11471.4 | 9545.4 |
| 30° | 11857.9 | 11774.4 | 11468.7 | 10973.8 | 10489.8 | 10195.1 | 10081.4 | 10299.3 | 10487.1 | 11914.2 | 9796.2 |
| 32.5° | 12978.0 | 12857.4 | 12503.6 | 11958.1 | 11322.0 | 10872.3 | 10687.3 | 10823.0 | 10972.4 | 12447.5 | 10110.1 |
| 35° | 14525.7 | 14381.8 | 13870.4 | 13117.8 | 12399.5 | 11781.2 | 11485.1 | 11583.8 | 11729.2 | 13242.6 | 10563.9 |
| 37.5° | 15581.3 | 15516.8 | 15176.8 | 14469.4 | 13688.1 | 12976.6 | 12518.8 | 12576.4 | 12658.6 | 14236.4 | 11145.2 |
| 40° | 15571.7 | 15597.7 | 15604.6 | 15611.5 | 15079.5 | 14398.2 | 13906.1 | 13845.7 | 13829.3 | 15327.7 | 11805.9 |
| 42.5° | 14791.7 | 14898.6 | 15244.0 | 15944.5 | 16268.1 | 15955.5 | 15504.5 | 15330.4 | 15244.0 | 16613.5 | 12506.4 |
| 45° | 13597.6 | 13655.2 | 14302.3 | 15670.4 | 16876.7 | 17497.7 | 17156.4 | 16608.0 | 16451.7 | 17795.3 | 13087.6 |
| 47.5° | 12982.1 | 13045.2 | 13452.3 | 14943.8 | 16869.9 | 18743.8 | 18941.3 | 17896.6 | 17617.0 | 18823.3 | 13589.4 |
| 50° | 11516.7 | 11648.2 | 12160.9 | 13679.8 | 16254.4 | 19316.9 | 20807.0 | 19432.0 | 18853.5 | 19824.1 | 14092.5 |
| 52.5° | 8825.6 | 9028.6 | 9603.0 | 11601.6 | 14692.9 | 19033.1 | 22299.8 | 21293.6 | 20476.6 | 20860.4 | 14524.4 |
| 55° | 5567.1 | 5717.9 | 6200.4 | 8193.6 | 11753.8 | 17556.7 | 22866.0 | 23307.4 | 22580.9 | 21842.0 | 14898.6 |
| 57.5° | 3026.9 | 3094.0 | 3275.0 | 4523.9 | 7645.3 | 14292.7 | 22040.8 | 24453.5 | 24151.9 | 22675.4 | 15181.0 |
| 58° | 2708.9 | 2754.1 | 2866.5 | 3920.7 | 6780.3 | 13400.2 | 21674.8 | 24457.6 | 24306.8 | 22797.5 | 15202.9 |
| 60° | 2009.7 | 1986.4 | 1886.3 | 2237.3 | 3774.0 | 9257.5 | 19462.2 | 23478.8 | 23921.6 | 22946.9 | 15096.0 |
| 62.5° | 1765.7 | 1709.5 | 1505.2 | 1481.9 | 1835.6 | 4264.8 | 14891.7 | 20111.9 | 21157.9 | 22094.2 | 14446.2 |
| 65° | 1658.7 | 1598.5 | 1335.3 | 1250.3 | 1324.2 | 1804.1 | 8772.2 | 15083.6 | 16395.5 | 19508.8 | 12784.7 |
| 67.5° | 1579.2 | 1501.1 | 1226.9 | 1110.4 | 1115.8 | 1192.7 | 3516.3 | 9500.1 | 10976.6 | 14812.2 | 9944.2 |
| 70° | 1502.5 | 1417.5 | 1135.1 | 1000.8 | 969.2 | 943.2 | 1398.3 | 4755.5 | 6094.8 | 9356.1 | 6340.2 |
| 72.5° | 1420.3 | 1336.6 | 1054.2 | 914.4 | 852.6 | 766.3 | 913.0 | 1945.2 | 2717.1 | 4426.5 | 2876.0 |
| 75° | 1301.0 | 1225.6 | 973.3 | 837.6 | 749.8 | 634.7 | 689.6 | 1015.8 | 1218.7 | 1763.0 | 1386.0 |
| 77.5° | 1154.3 | 1092.6 | 882.8 | 774.6 | 664.9 | 515.5 | 530.5 | 704.6 | 781.4 | 1008.9 | 823.9 |
| 80° | 829.4 | 851.3 | 785.5 | 696.4 | 592.2 | 418.1 | 407.1 | 514.0 | 555.2 | 648.4 | 536.0 |
| 82.5° | 582.6 | 594.9 | 649.8 | 568.9 | 489.4 | 329.0 | 300.2 | 361.9 | 386.6 | 426.4 | 289.3 |
| 85° | 401.7 | 388.0 | 445.5 | 396.2 | 353.6 | 219.3 | 205.6 | 245.4 | 260.4 | 264.5 | 149.5 |
| 87.5° | 241.3 | 241.3 | 257.7 | 212.5 | 190.6 | 113.8 | 111.0 | 139.8 | 149.5 | 142.6 | 82.2 |
| 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-07-LED-U-AFL-600

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7733.1 | 7733.1 | 7733.1 | 7733.1 | 7733.1 | 7733.1 | 7733.1 | 7733.1 | 7733.1 | 7733.1 | 7733.1 |
| 2.5° | 7753.7 | 7656.3 | 7449.3 | 7283.4 | 7073.7 | 6855.7 | 6733.7 | 6603.5 | 6514.4 | 6449.9 | 6552.7 |
| 5° | 7812.6 | 7613.8 | 7186.1 | 6780.3 | 6332.1 | 5865.9 | 5512.3 | 5183.3 | 4954.4 | 4811.8 | 4946.1 |
| 7.5° | 7905.8 | 7600.1 | 6918.7 | 6225.1 | 5420.4 | 4644.5 | 3950.8 | 3516.3 | 3262.7 | 3137.9 | 3216.1 |
| 10° | 8012.7 | 7578.1 | 6604.8 | 5472.5 | 4320.9 | 3343.5 | 2825.4 | 2649.9 | 2592.3 | 2569.0 | 2580.0 |
| 12.5° | 8101.8 | 7531.6 | 6219.6 | 4562.3 | 3244.8 | 2640.2 | 2490.9 | 2486.8 | 2499.1 | 2501.8 | 2505.9 |
| 15° | 8164.9 | 7463.0 | 5647.9 | 3613.6 | 2595.0 | 2405.9 | 2397.7 | 2422.3 | 2445.7 | 2455.2 | 2460.7 |
| 17.5° | 8207.3 | 7321.8 | 5002.3 | 2856.9 | 2325.0 | 2292.1 | 2311.3 | 2342.8 | 2367.5 | 2374.4 | 2379.8 |
| 20° | 8203.2 | 7114.8 | 4233.3 | 2382.6 | 2178.3 | 2178.3 | 2211.2 | 2235.9 | 2237.3 | 2229.0 | 2233.1 |
| 22.5° | 8160.8 | 6831.1 | 3487.4 | 2130.3 | 2048.0 | 2071.4 | 2104.3 | 2081.0 | 1985.0 | 1921.9 | 1926.1 |
| 25° | 8089.5 | 6492.5 | 2848.6 | 1969.9 | 1927.4 | 1968.6 | 1959.0 | 1783.5 | 1646.4 | 1584.8 | 1584.8 |
| 27.5° | 8026.4 | 6092.1 | 2357.9 | 1830.1 | 1806.8 | 1857.5 | 1687.6 | 1528.5 | 1470.9 | 1442.2 | 1432.5 |
| 30° | 7981.2 | 5660.3 | 2030.3 | 1695.7 | 1693.0 | 1656.1 | 1464.0 | 1420.3 | 1410.6 | 1387.3 | 1379.0 |
| 32.5° | 7992.1 | 5223.0 | 1820.5 | 1577.9 | 1587.4 | 1417.5 | 1357.1 | 1366.8 | 1358.5 | 1333.8 | 1322.9 |
| 35° | 8082.6 | 4807.7 | 1683.5 | 1470.9 | 1442.2 | 1280.4 | 1294.1 | 1311.9 | 1309.2 | 1274.9 | 1264.0 |
| 37.5° | 8244.4 | 4414.2 | 1592.9 | 1381.8 | 1258.4 | 1211.9 | 1233.8 | 1261.2 | 1254.3 | 1231.0 | 1222.8 |
| 40° | 8414.4 | 4044.0 | 1518.9 | 1311.9 | 1150.2 | 1165.2 | 1184.5 | 1199.5 | 1206.4 | 1213.2 | 1207.7 |
| 42.5° | 8580.2 | 3657.5 | 1428.4 | 1240.6 | 1104.9 | 1121.4 | 1129.5 | 1144.7 | 1181.7 | 1207.7 | 1206.4 |
| 45° | 8678.9 | 3294.2 | 1335.3 | 1139.2 | 1069.3 | 1078.9 | 1073.4 | 1103.6 | 1148.8 | 1191.3 | 1192.7 |
| 47.5° | 8788.6 | 3011.8 | 1261.2 | 1046.0 | 1035.0 | 1041.9 | 1025.4 | 1055.6 | 1096.7 | 1148.8 | 1154.3 |
| 50° | 8921.6 | 2843.2 | 1202.3 | 971.9 | 988.4 | 988.4 | 984.3 | 1011.7 | 1069.3 | 1129.5 | 1140.6 |
| 52.5° | 9072.3 | 2810.3 | 1152.9 | 918.5 | 941.8 | 940.4 | 944.5 | 985.6 | 1048.7 | 1107.7 | 1117.3 |
| 55° | 9256.1 | 2899.3 | 1099.5 | 878.7 | 896.5 | 902.0 | 915.7 | 962.4 | 1015.8 | 1083.0 | 1087.1 |
| 57.5° | 9470.0 | 3080.3 | 1056.9 | 847.2 | 855.4 | 873.2 | 895.2 | 937.6 | 995.2 | 1069.3 | 1073.4 |
| 58° | 9505.6 | 3118.7 | 1050.1 | 844.4 | 847.2 | 867.8 | 892.4 | 933.5 | 991.1 | 1072.1 | 1076.1 |
| 60° | 9507.0 | 3246.2 | 1035.0 | 832.1 | 815.7 | 850.0 | 877.4 | 918.5 | 984.3 | 1081.6 | 1091.2 |
| 62.5° | 9169.7 | 3244.8 | 1024.1 | 814.3 | 782.8 | 825.2 | 856.8 | 904.8 | 977.4 | 1104.9 | 1124.1 |
| 65° | 8074.4 | 2948.8 | 971.9 | 786.9 | 756.7 | 803.3 | 838.9 | 895.2 | 996.7 | 1206.4 | 1218.7 |
| 67.5° | 6315.6 | 2416.8 | 874.6 | 748.5 | 722.4 | 781.4 | 828.0 | 893.9 | 1017.2 | 1229.7 | 1237.9 |
| 70° | 4175.7 | 1808.2 | 767.7 | 704.6 | 686.8 | 755.3 | 833.5 | 940.4 | 993.9 | 1180.3 | 1158.4 |
| 72.5° | 2167.3 | 1269.4 | 681.3 | 649.8 | 645.7 | 732.0 | 913.0 | 935.0 | 970.6 | 1110.4 | 1083.0 |
| 75° | 1137.8 | 881.5 | 605.9 | 589.4 | 596.3 | 726.6 | 1077.5 | 910.2 | 940.4 | 1062.4 | 1114.5 |
| 77.5° | 696.4 | 711.5 | 541.4 | 534.6 | 548.3 | 710.1 | 1076.1 | 878.7 | 896.5 | 977.4 | 1035.0 |
| 80° | 466.1 | 577.1 | 492.1 | 493.5 | 503.1 | 649.8 | 966.5 | 829.4 | 843.1 | 923.9 | 983.0 |
| 82.5° | 294.7 | 341.4 | 446.9 | 470.3 | 457.9 | 536.0 | 821.1 | 755.3 | 774.6 | 1056.9 | 1117.3 |
| 85° | 149.5 | 213.9 | 388.0 | 452.3 | 412.7 | 375.6 | 666.2 | 662.2 | 671.8 | 762.2 | 796.5 |
| 87.5° | 68.5 | 117.8 | 303.0 | 394.9 | 311.2 | 234.5 | 484.0 | 490.8 | 529.2 | 541.4 | 541.4 |
| 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)