

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: P268733

Luminaire Tested: **GAN-AF-08-LED-U-AFL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268733
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-08-LED-U-AFL-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42520.7 lumens
Efficiency: N/A
Efficacy: 95.6 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

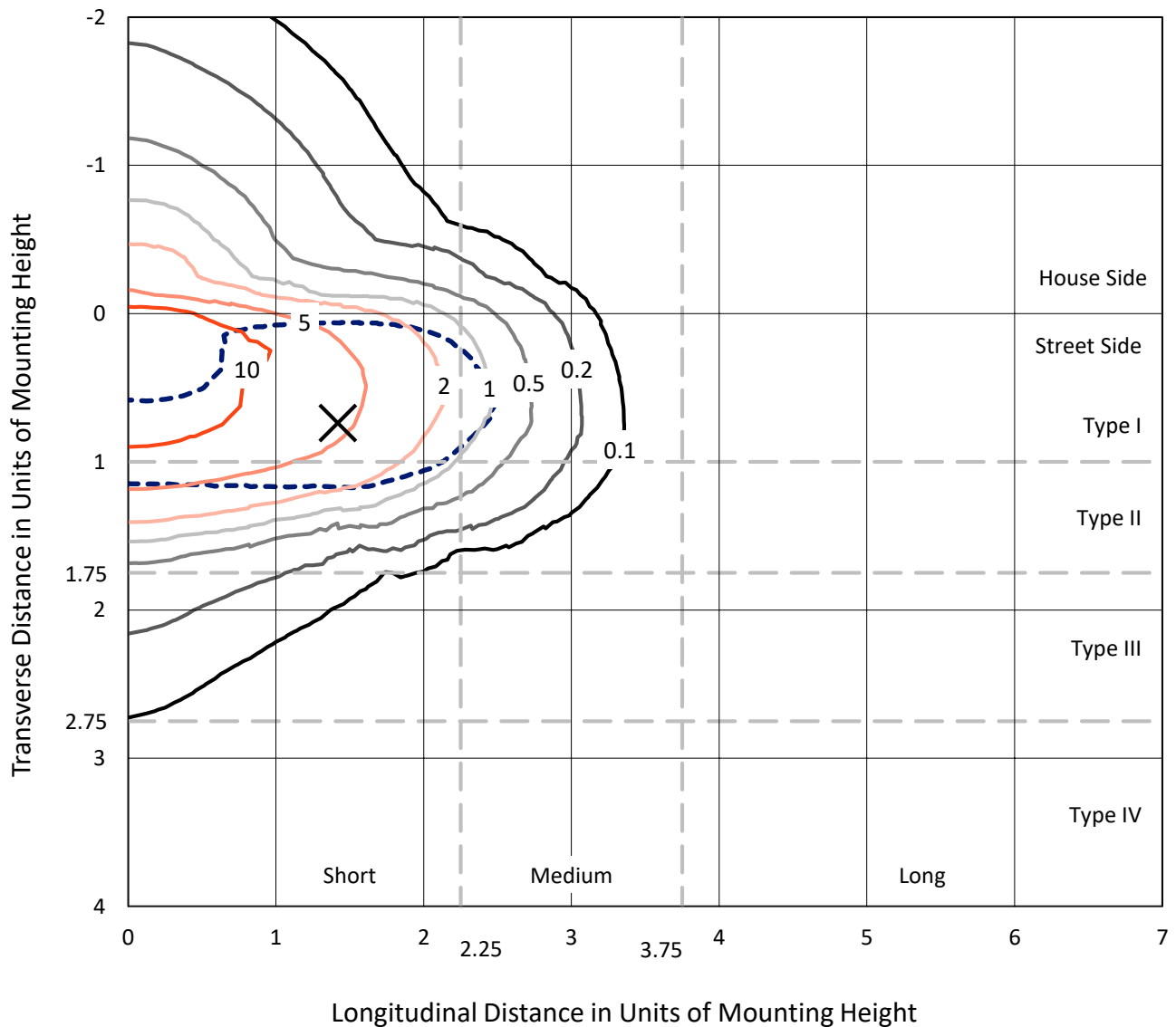
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

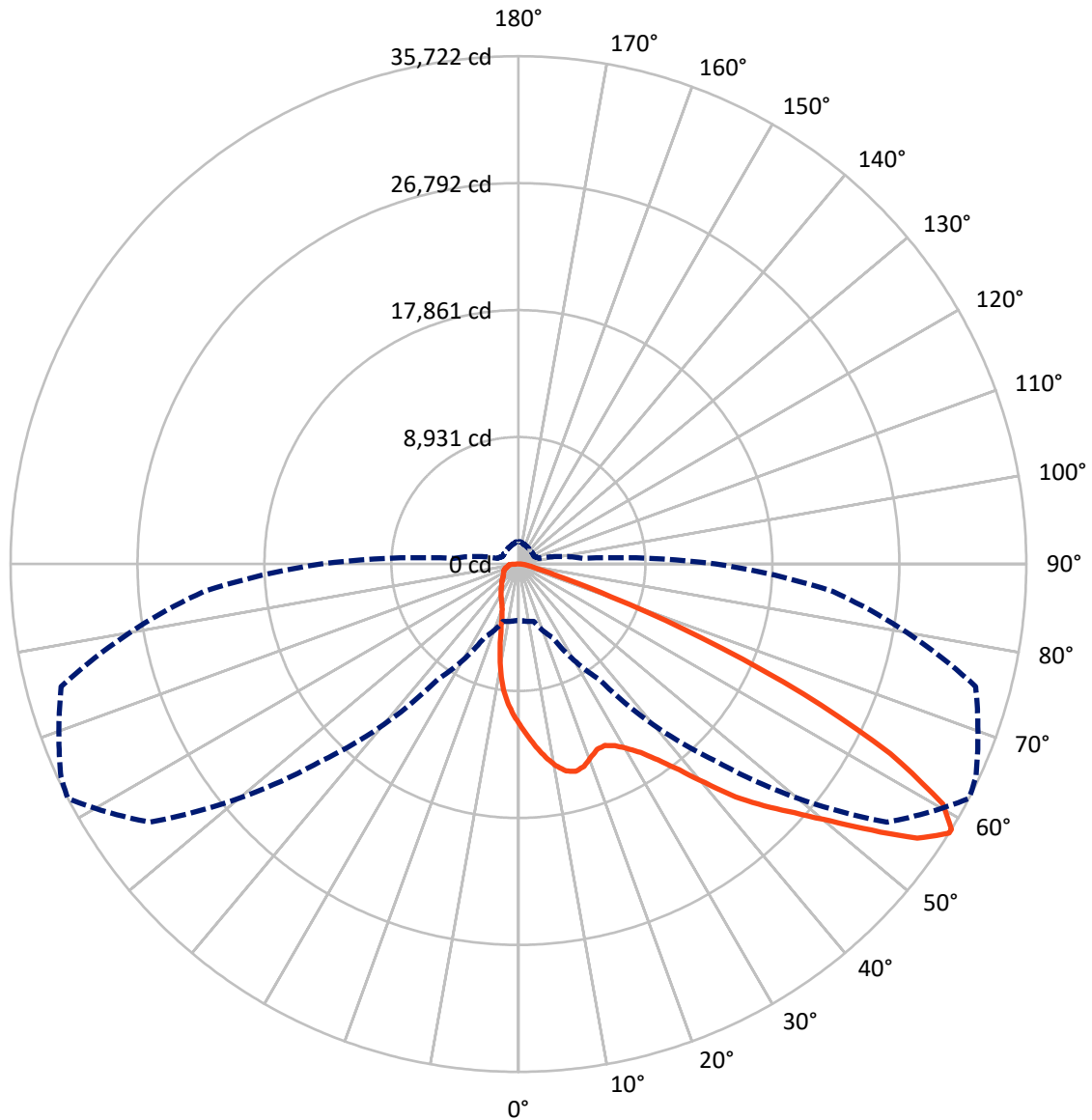
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.3 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 | 6484.6 | 0.0 | 6484.6 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 36036.1 | 0.0 | 36036.1 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 42520.7 | 0.0 | 42520.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1010.2 | 2.4 |
| 10°-20° | 2582.1 | 6.1 |
| 20°-30° | 4174.1 | 9.8 |
| 30°-40° | 6626.3 | 15.6 |
| 40°-50° | 9695.6 | 22.8 |
| 50°-60° | 10140.8 | 23.8 |
| 60°-70° | 5991.2 | 14.1 |
| 70°-80° | 1687.8 | 4.0 |
| 80°-90° | 612.7 | 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° | 42520.7 | 100.0 |
| 0°-180° | 42520.7 | 100.0 |



REPORT NUMBER: P268733

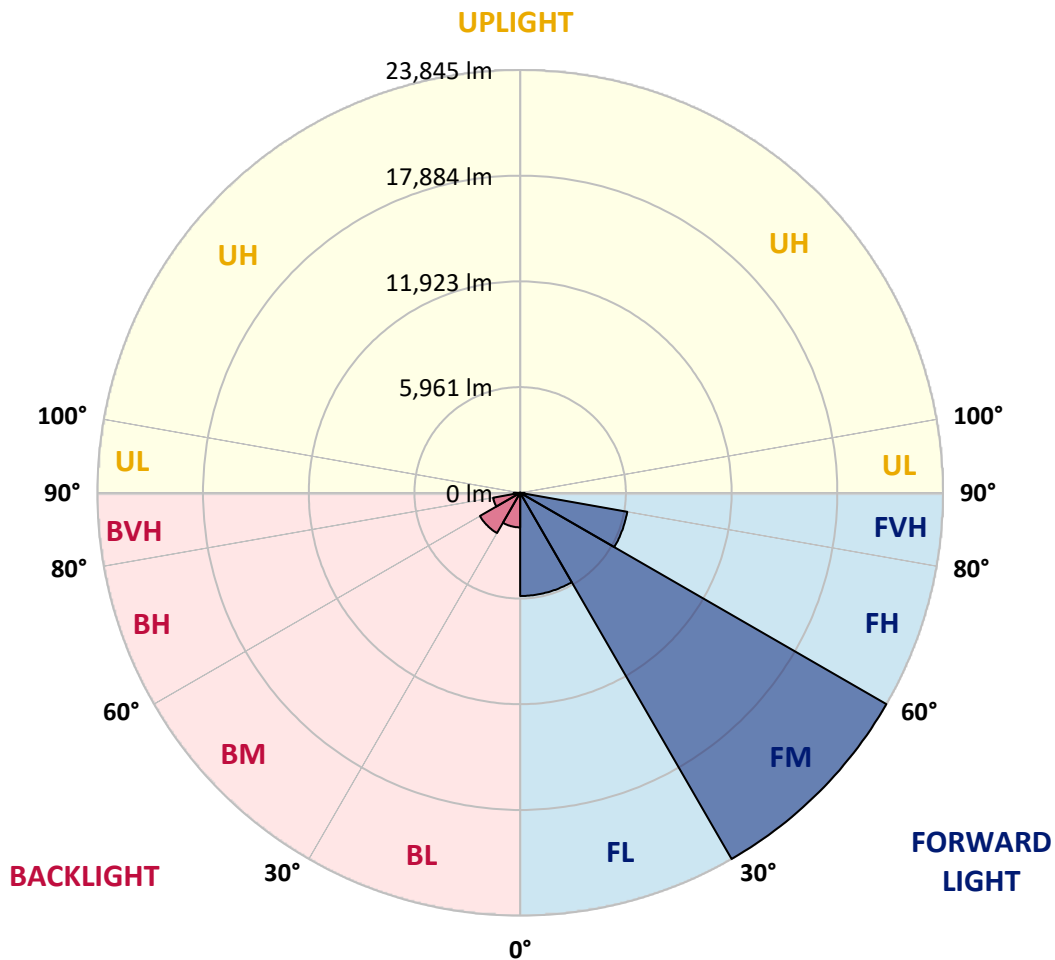
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 5817.4 | 13.7 | | | |
| FM | (30°-60°) | 23845.4 | 56.1 | | | |
| FH | (60°-80°) | 6131.7 | 14.4 | | | G3/7500 |
| FVH | (80°-90°) | 241.7 | 0.6 | | | G3/500 |
| BL | (0°-30°) | 1948.9 | 4.6 | B3/2500 | | |
| BM | (30°-60°) | 2617.3 | 6.2 | B3/5000 | | |
| BH | (60°-80°) | 1547.3 | 3.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 371.0 | 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





REPORT NUMBER: P268733

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 62.5° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11294.7 | 11294.7 | 11294.7 | 11294.7 | 11294.7 | 11294.7 | 11294.7 | 11294.7 | 11294.7 | 11294.7 | 11294.7 |
| 2.5° | 12906.6 | 12802.5 | 12736.3 | 12678.3 | 12602.2 | 12440.1 | 12221.8 | 12083.6 | 12013.6 | 11775.3 | 11492.9 |
| 5° | 14172.0 | 14079.9 | 14011.9 | 13933.7 | 13797.5 | 13543.2 | 13190.9 | 12910.6 | 12772.5 | 12295.9 | 11731.2 |
| 7.5° | 13875.7 | 13913.7 | 14031.9 | 14238.0 | 14414.4 | 14380.2 | 14065.9 | 13709.6 | 13527.2 | 12864.5 | 12007.6 |
| 10° | 12089.7 | 12155.8 | 12360.0 | 12842.4 | 13623.3 | 14424.4 | 14668.6 | 14422.3 | 14238.0 | 13427.1 | 12291.9 |
| 12.5° | 11731.2 | 11729.3 | 11745.2 | 11873.3 | 12338.0 | 13465.2 | 14688.5 | 14936.8 | 14826.7 | 13963.8 | 12582.2 |
| 15° | 11877.4 | 11881.4 | 11869.5 | 11923.5 | 12067.7 | 12514.2 | 14075.9 | 15135.2 | 15213.2 | 14504.5 | 12882.6 |
| 17.5° | 12261.9 | 12251.9 | 12205.8 | 12205.8 | 12257.8 | 12432.1 | 13355.1 | 14950.9 | 15311.3 | 14982.9 | 13146.9 |
| 20° | 12906.6 | 12860.6 | 12738.3 | 12626.2 | 12570.3 | 12664.3 | 13058.8 | 14526.4 | 15141.1 | 15401.4 | 13365.2 |
| 22.5° | 13687.5 | 13651.5 | 13453.1 | 13212.9 | 13018.6 | 13016.7 | 13211.0 | 14156.0 | 14846.7 | 15795.8 | 13549.3 |
| 25° | 14696.6 | 14638.5 | 14344.2 | 13959.8 | 13619.5 | 13489.3 | 13543.2 | 14138.0 | 14686.6 | 16224.4 | 13713.4 |
| 27.5° | 15881.9 | 15775.9 | 15427.4 | 14872.8 | 14372.3 | 14109.9 | 14031.9 | 14464.4 | 14832.8 | 16754.9 | 13941.8 |
| 30° | 17319.6 | 17197.4 | 16751.0 | 16028.1 | 15321.3 | 14890.8 | 14724.7 | 15042.9 | 15317.3 | 17401.6 | 14308.2 |
| 32.5° | 18955.5 | 18779.2 | 18262.6 | 17465.7 | 16536.7 | 15880.0 | 15609.7 | 15807.8 | 16026.1 | 18180.5 | 14766.7 |
| 35° | 21216.0 | 21005.7 | 20258.8 | 19159.7 | 18110.5 | 17207.5 | 16774.9 | 16919.0 | 17131.3 | 19341.9 | 15429.5 |
| 37.5° | 22757.8 | 22663.6 | 22167.0 | 21133.9 | 19992.6 | 18953.3 | 18284.7 | 18368.7 | 18488.8 | 20793.4 | 16278.4 |
| 40° | 22743.6 | 22781.7 | 22791.7 | 22801.8 | 22025.0 | 21029.9 | 20310.9 | 20222.9 | 20198.7 | 22387.3 | 17243.4 |
| 42.5° | 21604.3 | 21760.6 | 22265.2 | 23288.3 | 23760.9 | 23304.3 | 22645.6 | 22391.3 | 22265.2 | 24265.5 | 18266.7 |
| 45° | 19860.4 | 19944.6 | 20889.6 | 22887.8 | 24649.9 | 25556.9 | 25058.3 | 24257.4 | 24029.1 | 25991.4 | 19115.7 |
| 47.5° | 18961.5 | 19053.5 | 19648.2 | 21826.7 | 24639.8 | 27376.9 | 27665.2 | 26139.5 | 25731.1 | 27493.0 | 19848.4 |
| 50° | 16821.0 | 17013.2 | 17762.0 | 19980.6 | 23740.9 | 28213.8 | 30390.3 | 28382.0 | 27537.2 | 28954.7 | 20583.3 |
| 52.5° | 12890.6 | 13186.8 | 14025.9 | 16945.2 | 21460.2 | 27799.4 | 32570.8 | 31101.2 | 29907.8 | 30468.4 | 21214.0 |
| 55° | 8131.2 | 8351.5 | 9056.3 | 11967.5 | 17167.4 | 25642.9 | 33397.7 | 34042.4 | 32981.4 | 31902.0 | 21760.6 |
| 57.5° | 4421.0 | 4519.2 | 4783.5 | 6607.5 | 11166.7 | 20875.6 | 32192.4 | 35716.4 | 35275.8 | 33119.4 | 22173.0 |
| 58° | 3956.4 | 4022.5 | 4186.7 | 5726.4 | 9903.2 | 19572.1 | 31657.8 | 35722.4 | 35502.2 | 33297.7 | 22205.2 |
| 60° | 2935.3 | 2901.3 | 2755.1 | 3267.7 | 5512.2 | 13521.3 | 28426.1 | 34292.7 | 34939.4 | 33515.9 | 22048.9 |
| 62.5° | 2578.9 | 2496.7 | 2198.5 | 2164.5 | 2681.0 | 6229.0 | 21750.7 | 29375.1 | 30903.0 | 32270.4 | 21099.8 |
| 65° | 2422.6 | 2334.7 | 1950.2 | 1826.1 | 1934.2 | 2635.0 | 12812.4 | 22030.9 | 23947.0 | 28494.1 | 18673.1 |
| 67.5° | 2306.6 | 2192.5 | 1791.9 | 1621.8 | 1629.9 | 1742.0 | 5135.8 | 13875.7 | 16032.1 | 21634.4 | 14524.4 |
| 70° | 2194.5 | 2070.4 | 1657.9 | 1461.6 | 1415.5 | 1377.6 | 2042.2 | 6945.9 | 8902.1 | 13665.5 | 9260.4 |
| 72.5° | 2074.4 | 1952.1 | 1539.8 | 1335.5 | 1245.4 | 1119.3 | 1333.5 | 2841.2 | 3968.5 | 6465.3 | 4200.7 |
| 75° | 1900.2 | 1790.1 | 1421.6 | 1223.4 | 1095.3 | 927.1 | 1007.1 | 1483.7 | 1780.0 | 2574.9 | 2024.3 |
| 77.5° | 1685.8 | 1595.7 | 1289.4 | 1131.2 | 971.1 | 752.9 | 774.9 | 1029.2 | 1141.2 | 1473.7 | 1203.4 |
| 80° | 1211.4 | 1243.4 | 1147.2 | 1017.2 | 865.0 | 610.7 | 594.7 | 750.9 | 810.9 | 947.1 | 783.0 |
| 82.5° | 851.0 | 869.0 | 949.1 | 830.9 | 714.8 | 480.6 | 438.6 | 528.7 | 564.7 | 622.7 | 422.5 |
| 85° | 586.7 | 566.7 | 650.7 | 578.7 | 516.5 | 320.3 | 300.4 | 358.5 | 380.4 | 386.5 | 218.3 |
| 87.5° | 352.3 | 352.3 | 376.4 | 310.4 | 278.4 | 166.1 | 162.1 | 204.3 | 218.3 | 208.2 | 120.2 |
| 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: P268733

CATALOG NUMBER: GAN-AF-08-LED-U-AFL-7027

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11294.7 | 11294.7 | 11294.7 | 11294.7 | 11294.7 | 11294.7 | 11294.7 | 11294.7 | 11294.7 | 11294.7 | 11294.7 |
| 2.5° | 11324.8 | 11182.6 | 10880.4 | 10638.0 | 10331.6 | 10013.2 | 9835.2 | 9644.9 | 9514.8 | 9420.6 | 9570.8 |
| 5° | 11410.9 | 11120.6 | 10495.8 | 9903.2 | 9248.5 | 8567.7 | 8051.1 | 7570.6 | 7236.1 | 7027.9 | 7224.2 |
| 7.5° | 11547.1 | 11100.5 | 10105.5 | 9092.3 | 7916.9 | 6783.7 | 5770.5 | 5135.8 | 4765.4 | 4583.2 | 4697.2 |
| 10° | 11703.2 | 11068.5 | 9646.9 | 7992.9 | 6311.1 | 4883.5 | 4126.6 | 3870.3 | 3786.3 | 3752.2 | 3768.3 |
| 12.5° | 11833.4 | 11000.5 | 9084.3 | 6663.5 | 4739.4 | 3856.3 | 3638.1 | 3632.0 | 3650.2 | 3654.1 | 3660.1 |
| 15° | 11925.4 | 10900.4 | 8249.3 | 5277.9 | 3790.3 | 3514.0 | 3502.0 | 3538.1 | 3572.0 | 3586.0 | 3594.1 |
| 17.5° | 11987.5 | 10694.1 | 7306.3 | 4172.6 | 3395.9 | 3347.8 | 3375.8 | 3421.9 | 3457.9 | 3467.9 | 3475.9 |
| 20° | 11981.6 | 10391.8 | 6182.9 | 3479.9 | 3181.5 | 3181.5 | 3229.6 | 3265.7 | 3267.7 | 3255.6 | 3261.7 |
| 22.5° | 11919.5 | 9977.3 | 5093.7 | 3111.5 | 2991.4 | 3025.4 | 3073.6 | 3039.4 | 2899.3 | 2807.2 | 2813.2 |
| 25° | 11815.3 | 9482.7 | 4160.7 | 2877.2 | 2815.2 | 2875.2 | 2861.2 | 2604.9 | 2404.8 | 2314.7 | 2314.7 |
| 27.5° | 11723.2 | 8898.0 | 3443.9 | 2673.0 | 2639.0 | 2713.2 | 2464.8 | 2232.5 | 2148.4 | 2106.3 | 2092.3 |
| 30° | 11657.1 | 8267.3 | 2965.3 | 2476.7 | 2472.9 | 2418.7 | 2138.4 | 2074.4 | 2060.4 | 2026.2 | 2014.3 |
| 32.5° | 11673.1 | 7628.6 | 2659.1 | 2304.6 | 2318.6 | 2070.4 | 1982.2 | 1996.3 | 1984.3 | 1948.2 | 1932.2 |
| 35° | 11805.3 | 7022.0 | 2458.8 | 2148.4 | 2106.3 | 1870.1 | 1890.2 | 1916.2 | 1912.1 | 1862.0 | 1846.0 |
| 37.5° | 12041.6 | 6447.2 | 2326.6 | 2018.3 | 1838.1 | 1770.0 | 1802.0 | 1842.1 | 1832.1 | 1798.0 | 1786.0 |
| 40° | 12289.9 | 5906.6 | 2218.5 | 1916.2 | 1679.9 | 1701.8 | 1730.0 | 1752.0 | 1761.9 | 1771.9 | 1764.0 |
| 42.5° | 12532.2 | 5342.0 | 2086.4 | 1812.1 | 1613.8 | 1637.9 | 1649.8 | 1671.8 | 1726.0 | 1764.0 | 1761.9 |
| 45° | 12676.3 | 4811.4 | 1950.2 | 1663.9 | 1561.8 | 1575.7 | 1567.8 | 1611.7 | 1677.9 | 1739.9 | 1742.0 |
| 47.5° | 12836.5 | 4399.0 | 1842.1 | 1527.7 | 1511.7 | 1521.6 | 1497.7 | 1541.8 | 1601.8 | 1677.9 | 1685.8 |
| 50° | 13030.8 | 4152.7 | 1755.9 | 1419.6 | 1443.7 | 1443.7 | 1437.6 | 1477.7 | 1561.8 | 1649.8 | 1665.8 |
| 52.5° | 13251.0 | 4104.6 | 1684.0 | 1341.4 | 1375.6 | 1373.6 | 1379.5 | 1439.7 | 1531.7 | 1617.8 | 1631.9 |
| 55° | 13519.3 | 4234.8 | 1605.8 | 1283.5 | 1309.5 | 1317.5 | 1337.4 | 1405.6 | 1483.7 | 1581.7 | 1587.8 |
| 57.5° | 13831.7 | 4499.2 | 1543.7 | 1237.3 | 1249.5 | 1275.5 | 1307.5 | 1369.6 | 1453.6 | 1561.8 | 1567.8 |
| 58° | 13883.7 | 4555.1 | 1533.8 | 1233.5 | 1237.3 | 1267.4 | 1303.5 | 1363.5 | 1447.6 | 1565.7 | 1571.8 |
| 60° | 13885.7 | 4741.3 | 1511.7 | 1215.3 | 1191.3 | 1241.4 | 1281.4 | 1341.4 | 1437.6 | 1579.8 | 1593.9 |
| 62.5° | 13393.1 | 4739.4 | 1495.7 | 1189.4 | 1143.4 | 1205.3 | 1251.3 | 1321.4 | 1427.5 | 1613.8 | 1641.8 |
| 65° | 11793.3 | 4306.8 | 1419.6 | 1149.3 | 1105.3 | 1173.4 | 1225.4 | 1307.5 | 1455.7 | 1761.9 | 1780.0 |
| 67.5° | 9224.4 | 3530.0 | 1277.4 | 1093.2 | 1055.1 | 1141.2 | 1209.4 | 1305.4 | 1485.6 | 1796.0 | 1808.1 |
| 70° | 6099.0 | 2640.9 | 1121.3 | 1029.2 | 1003.1 | 1103.3 | 1217.4 | 1373.6 | 1451.7 | 1723.9 | 1691.9 |
| 72.5° | 3165.5 | 1854.1 | 995.1 | 949.1 | 943.1 | 1069.3 | 1333.5 | 1365.6 | 1417.5 | 1621.8 | 1581.7 |
| 75° | 1661.9 | 1287.5 | 885.0 | 860.9 | 870.9 | 1061.2 | 1573.8 | 1329.5 | 1373.6 | 1551.7 | 1627.9 |
| 77.5° | 1017.2 | 1039.2 | 790.9 | 780.8 | 800.8 | 1037.2 | 1571.8 | 1283.5 | 1309.5 | 1427.5 | 1511.7 |
| 80° | 680.7 | 843.0 | 718.9 | 720.8 | 734.9 | 949.1 | 1411.5 | 1211.4 | 1231.3 | 1349.6 | 1435.6 |
| 82.5° | 430.5 | 498.6 | 652.8 | 686.8 | 668.8 | 783.0 | 1199.3 | 1103.3 | 1131.2 | 1543.7 | 1631.9 |
| 85° | 218.3 | 312.3 | 566.7 | 660.8 | 602.8 | 548.7 | 973.1 | 967.0 | 981.0 | 1113.3 | 1163.3 |
| 87.5° | 100.2 | 172.1 | 442.4 | 576.6 | 454.5 | 342.3 | 706.7 | 716.8 | 772.9 | 790.9 | 790.9 |
| 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)