

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: P200133

Luminaire Tested: **GAW-AF-01-LED-U-SL3-800**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P200133  
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: GAW-AF-01-LED-U-SL3-800  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 4000K, 800mA 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: 5254.9 lumens  
Efficiency: N/A  
Efficacy: 119.4 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): 44  
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



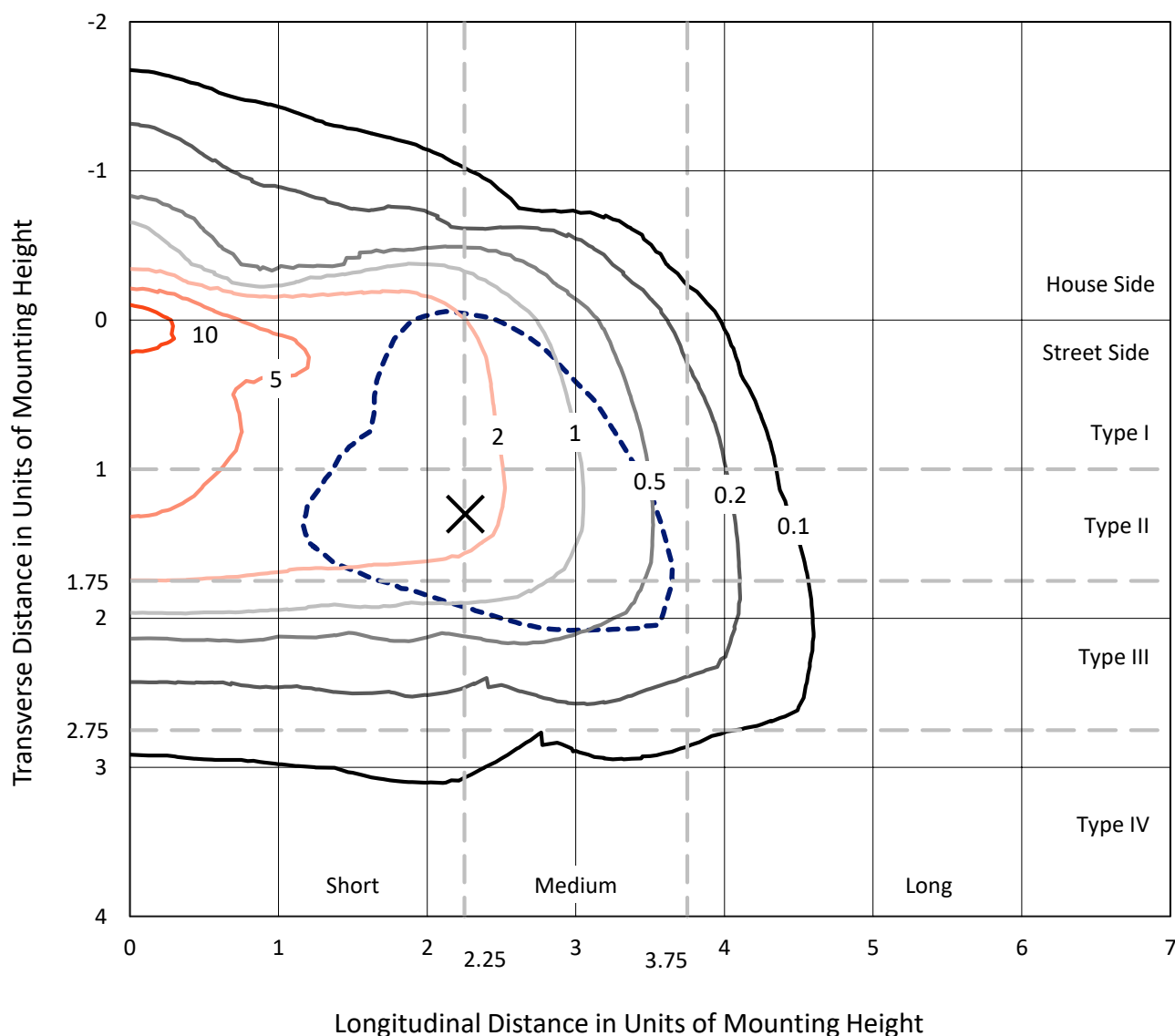
REPORT NUMBER: P200133

CATALOG NUMBER: GAW-AF-01-LED-U-SL3-800

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

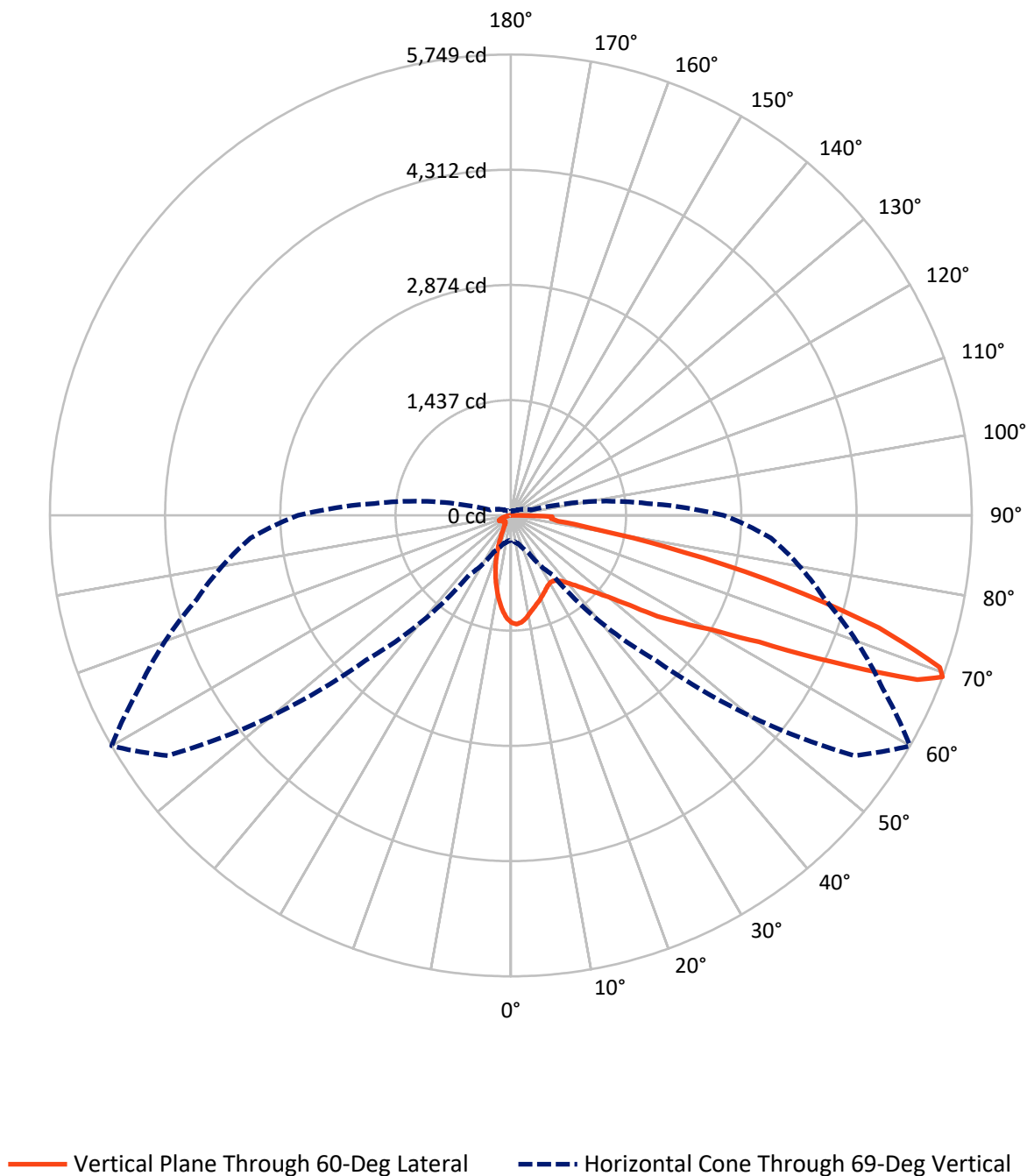


Based on 10 foot mounting height. Maximum calculated value = 13.4 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P200133

CATALOG NUMBER: GAW-AF-01-LED-U-SL3-800

## Luminous Intensity Polar Plot



REPORT NUMBER: P200133

CATALOG NUMBER: GAW-AF-01-LED-U-SL3-800

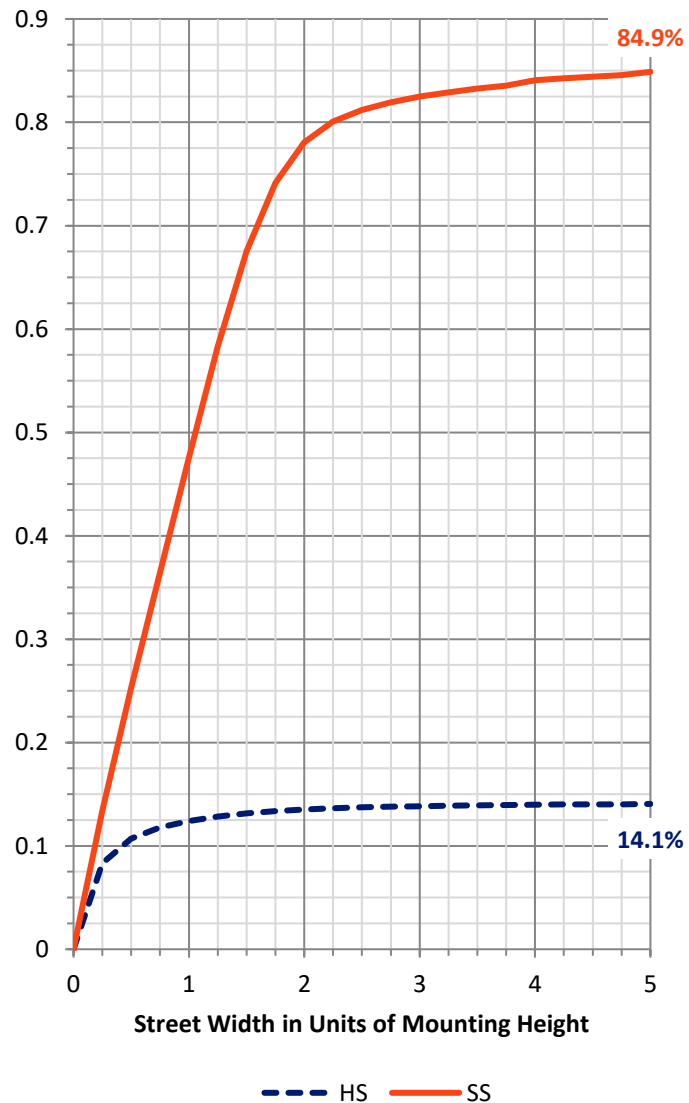
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 747.6    | 0.0    | 747.6  |
|                    | % Fixture | 14.2     | 0.0    | 14.2   |
| <b>Street Side</b> | Lumens    | 4507.3   | 0.0    | 4507.3 |
|                    | % Fixture | 85.8     | 0.0    | 85.8   |
| <b>Total</b>       | Lumens    | 5254.9   | 0.0    | 5254.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 113.2  | 2.2       |
| 10°-20°   | 241.2  | 4.6       |
| 20°-30°   | 307.4  | 5.8       |
| 30°-40°   | 422.5  | 8.0       |
| 40°-50°   | 685.6  | 13.0      |
| 50°-60°   | 1099.6 | 20.9      |
| 60°-70°   | 1463.4 | 27.8      |
| 70°-80°   | 790.1  | 15.0      |
| 80°-90°   | 131.8  | 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°    | 5254.9 | 100.0     |
| 0°-180°   | 5254.9 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P200133

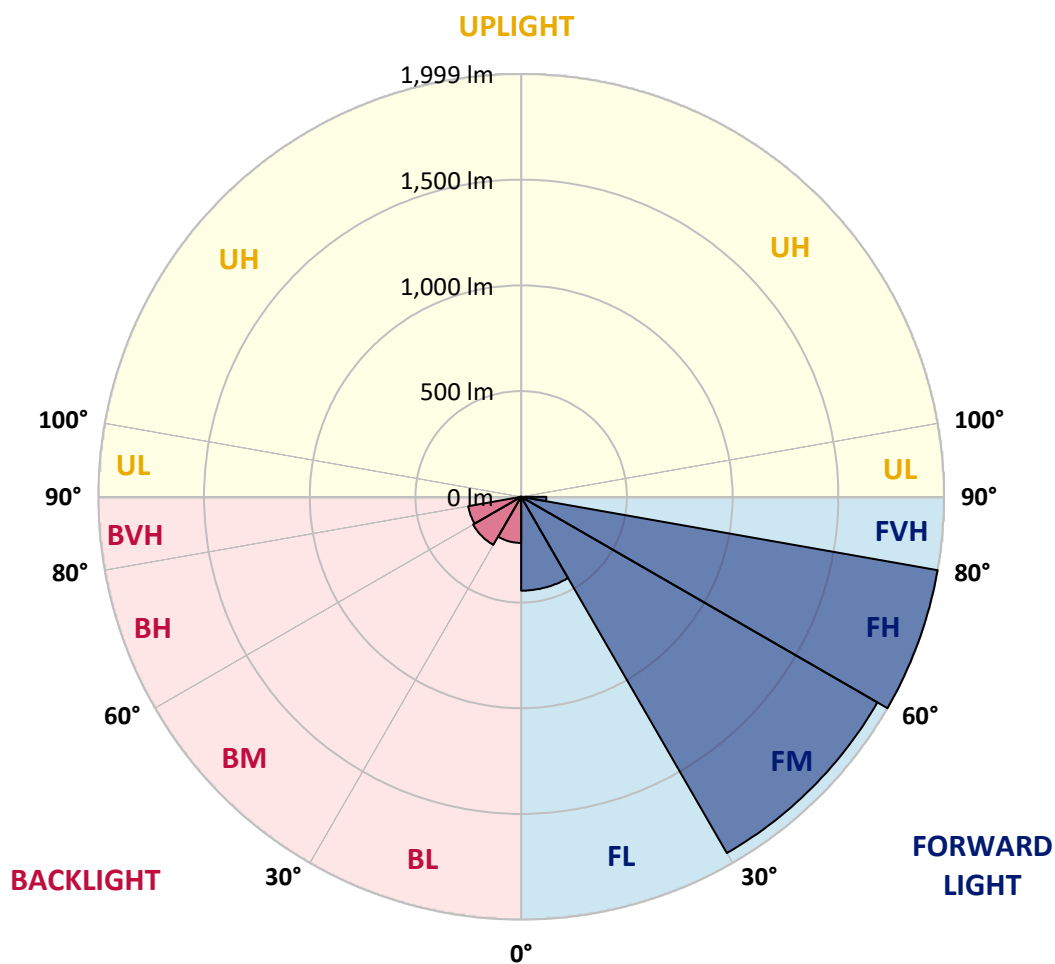
CATALOG NUMBER: GAW-AF-01-LED-U-SL3-800

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 443.7  | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 1945.1 | 37.0      |                         |      |         |
| FH   | (60°-80°)   | 1999.4 | 38.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 119.1  | 2.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 218.1  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 262.6  | 5.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 254.2  | 4.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 12.7   | 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





REPORT NUMBER: P200133

CATALOG NUMBER: GAW-AF-01-LED-U-SL3-800

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1339.0 | 1339.0 | 1339.0 | 1339.0 | 1339.0 | 1339.0 | 1339.0 | 1339.0 | 1339.0 | 1339.0 | 1339.0 |
| 2.5°  | 1366.5 | 1369.5 | 1368.2 | 1367.5 | 1369.7 | 1366.2 | 1358.8 | 1356.5 | 1353.0 | 1344.6 | 1330.3 |
| 5°    | 1315.2 | 1324.3 | 1323.8 | 1330.7 | 1342.1 | 1345.1 | 1341.8 | 1342.3 | 1335.8 | 1325.3 | 1301.7 |
| 7.5°  | 1226.6 | 1230.4 | 1232.5 | 1247.4 | 1268.3 | 1284.9 | 1299.1 | 1303.8 | 1300.7 | 1291.8 | 1261.4 |
| 10°   | 1135.2 | 1138.2 | 1143.0 | 1160.5 | 1186.9 | 1210.0 | 1237.0 | 1252.5 | 1259.0 | 1257.5 | 1223.6 |
| 12.5° | 1056.7 | 1059.8 | 1066.1 | 1086.0 | 1117.5 | 1145.8 | 1185.0 | 1204.2 | 1220.0 | 1229.4 | 1192.9 |
| 15°   | 986.4  | 993.1  | 999.1  | 1021.9 | 1057.2 | 1094.6 | 1138.7 | 1163.1 | 1187.4 | 1208.5 | 1165.7 |
| 17.5° | 931.6  | 938.3  | 941.7  | 962.6  | 1000.1 | 1045.9 | 1097.6 | 1126.3 | 1156.8 | 1191.3 | 1138.7 |
| 20°   | 899.9  | 903.0  | 901.4  | 913.1  | 946.8  | 995.3  | 1056.7 | 1090.1 | 1126.8 | 1175.1 | 1111.8 |
| 22.5° | 891.0  | 891.3  | 885.7  | 884.4  | 906.2  | 947.0  | 1013.1 | 1053.4 | 1098.6 | 1164.4 | 1088.7 |
| 25°   | 912.6  | 911.9  | 896.6  | 884.1  | 886.4  | 910.3  | 971.0  | 1017.9 | 1075.0 | 1162.1 | 1070.9 |
| 27.5° | 960.6  | 962.8  | 940.2  | 916.9  | 893.8  | 893.0  | 939.0  | 988.5  | 1055.8 | 1172.5 | 1063.4 |
| 30°   | 1027.9 | 1031.6 | 1007.5 | 977.8  | 934.4  | 898.6  | 926.5  | 971.0  | 1043.8 | 1194.1 | 1062.1 |
| 32.5° | 1101.4 | 1105.5 | 1087.2 | 1056.0 | 999.1  | 933.1  | 935.2  | 972.5  | 1043.3 | 1224.3 | 1070.7 |
| 35°   | 1179.9 | 1184.5 | 1175.1 | 1148.7 | 1085.5 | 996.9  | 968.1  | 997.1  | 1059.8 | 1270.5 | 1093.8 |
| 37.5° | 1267.4 | 1274.6 | 1277.1 | 1252.0 | 1184.5 | 1080.8 | 1022.2 | 1043.8 | 1097.1 | 1334.7 | 1136.2 |
| 40°   | 1393.6 | 1403.5 | 1402.8 | 1366.7 | 1297.9 | 1194.3 | 1105.7 | 1111.3 | 1155.2 | 1420.5 | 1204.0 |
| 42.5° | 1635.3 | 1637.3 | 1574.1 | 1495.7 | 1422.8 | 1313.7 | 1204.2 | 1199.7 | 1235.4 | 1529.1 | 1303.8 |
| 45°   | 1942.7 | 1934.3 | 1793.6 | 1642.1 | 1553.2 | 1450.7 | 1332.4 | 1310.1 | 1337.2 | 1661.7 | 1428.7 |
| 47.5° | 2197.8 | 2178.5 | 2000.8 | 1791.6 | 1691.3 | 1599.7 | 1483.0 | 1443.9 | 1458.8 | 1812.0 | 1590.1 |
| 50°   | 2286.4 | 2271.9 | 2124.7 | 1916.0 | 1822.1 | 1781.5 | 1668.2 | 1612.9 | 1617.0 | 1991.2 | 1779.2 |
| 52.5° | 2267.4 | 2265.3 | 2167.0 | 1998.0 | 1944.4 | 1972.4 | 1930.7 | 1855.8 | 1816.2 | 2190.1 | 1983.3 |
| 55°   | 2222.4 | 2226.8 | 2191.2 | 2093.5 | 2084.4 | 2156.7 | 2273.7 | 2218.4 | 2095.2 | 2390.9 | 2194.2 |
| 57.5° | 2066.3 | 2077.5 | 2155.7 | 2213.6 | 2309.5 | 2417.1 | 2549.9 | 2534.2 | 2395.5 | 2608.0 | 2445.1 |
| 60°   | 1664.8 | 1690.6 | 1900.2 | 2190.1 | 2541.2 | 2877.9 | 2937.2 | 2900.7 | 2705.2 | 2877.4 | 2776.3 |
| 62.5° | 1166.4 | 1193.3 | 1442.6 | 1896.2 | 2503.2 | 3398.2 | 3629.7 | 3472.1 | 3150.0 | 3274.1 | 3205.0 |
| 65°   | 624.4  | 637.4  | 827.8  | 1315.7 | 2113.2 | 3505.6 | 4641.8 | 4402.0 | 3854.1 | 3763.2 | 3571.8 |
| 67.5° | 344.4  | 351.6  | 424.4  | 664.3  | 1353.5 | 3087.0 | 5286.5 | 5467.8 | 4734.2 | 4088.9 | 3505.0 |
| 69°   | 311.5  | 318.0  | 365.8  | 503.1  | 905.7  | 2552.4 | 5223.6 | 5748.8 | 5120.1 | 4056.7 | 3258.3 |
| 70°   | 304.6  | 310.7  | 353.6  | 463.8  | 733.1  | 2103.9 | 5012.7 | 5677.0 | 5211.9 | 3941.2 | 3043.1 |
| 72.5° | 274.2  | 280.8  | 322.3  | 416.5  | 626.5  | 1048.9 | 3970.6 | 4799.9 | 4731.9 | 3417.3 | 2308.2 |
| 75°   | 255.6  | 261.7  | 332.3  | 408.0  | 599.9  | 663.8  | 2617.6 | 3537.6 | 3478.4 | 2390.4 | 1244.6 |
| 77.5° | 109.5  | 108.9  | 154.1  | 345.2  | 608.8  | 642.7  | 1406.6 | 2210.0 | 2016.2 | 1021.7 | 357.4  |
| 80°   | 73.1   | 71.8   | 73.1   | 101.6  | 558.2  | 646.3  | 736.9  | 1121.8 | 847.3  | 260.4  | 176.2  |
| 82.5° | 62.9   | 61.9   | 64.2   | 61.9   | 196.2  | 737.6  | 626.5  | 596.5  | 402.8  | 148.0  | 87.4   |
| 85°   | 42.4   | 40.6   | 55.3   | 55.5   | 92.7   | 655.4  | 705.7  | 503.9  | 325.9  | 87.9   | 43.2   |
| 87.5° | 20.4   | 19.8   | 32.2   | 39.4   | 54.3   | 266.3  | 791.8  | 516.3  | 328.8  | 44.9   | 20.6   |
| 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: P200133

CATALOG NUMBER: GAW-AF-01-LED-U-SL3-800

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1339.0 | 1339.0 | 1339.0 | 1339.0 | 1339.0 | 1339.0 | 1339.0 | 1339.0 | 1339.0 | 1339.0 | 1339.0 |
| 2.5°  | 1326.1 | 1315.7 | 1305.5 | 1293.3 | 1280.6 | 1266.4 | 1259.4 | 1252.2 | 1250.5 | 1248.4 | 1241.2 |
| 5°    | 1289.5 | 1274.8 | 1249.4 | 1221.5 | 1192.0 | 1163.4 | 1141.5 | 1127.8 | 1117.5 | 1112.0 | 1102.7 |
| 7.5°  | 1242.3 | 1220.7 | 1176.3 | 1128.1 | 1078.6 | 1033.4 | 994.3  | 969.7  | 946.3  | 935.4  | 923.0  |
| 10°   | 1197.4 | 1165.1 | 1096.1 | 1025.0 | 953.9  | 885.7  | 821.4  | 776.0  | 735.6  | 713.1  | 697.0  |
| 12.5° | 1158.8 | 1114.6 | 1019.0 | 922.7  | 825.2  | 728.0  | 631.8  | 556.2  | 493.0  | 459.7  | 442.7  |
| 15°   | 1121.3 | 1068.0 | 945.6  | 823.5  | 698.4  | 566.1  | 439.7  | 353.8  | 301.6  | 280.8  | 273.6  |
| 17.5° | 1087.2 | 1019.0 | 872.0  | 723.4  | 567.3  | 407.4  | 295.4  | 248.3  | 228.2  | 221.4  | 219.1  |
| 20°   | 1050.4 | 969.5  | 795.5  | 618.9  | 430.8  | 284.8  | 230.8  | 209.9  | 201.8  | 199.8  | 198.8  |
| 22.5° | 1014.9 | 920.7  | 722.4  | 507.0  | 309.4  | 219.8  | 198.2  | 189.7  | 188.3  | 190.2  | 190.2  |
| 25°   | 984.7  | 877.1  | 643.5  | 389.9  | 227.2  | 185.1  | 177.5  | 175.4  | 180.2  | 186.8  | 188.1  |
| 27.5° | 962.1  | 841.3  | 559.5  | 287.9  | 181.0  | 160.9  | 160.7  | 164.0  | 175.9  | 188.6  | 191.2  |
| 30°   | 946.5  | 807.2  | 469.6  | 207.7  | 151.8  | 141.7  | 145.7  | 152.8  | 170.3  | 188.3  | 193.1  |
| 32.5° | 938.8  | 782.0  | 375.9  | 160.7  | 130.0  | 124.4  | 131.2  | 139.8  | 157.1  | 173.9  | 180.2  |
| 35°   | 944.8  | 763.5  | 287.7  | 134.0  | 114.8  | 110.4  | 117.5  | 125.9  | 136.1  | 143.2  | 148.0  |
| 37.5° | 967.6  | 756.2  | 217.1  | 120.1  | 104.3  | 100.2  | 105.9  | 110.7  | 114.8  | 116.7  | 119.1  |
| 40°   | 1016.9 | 764.0  | 173.9  | 112.9  | 98.5   | 93.4   | 95.7   | 97.5   | 100.0  | 102.1  | 103.0  |
| 42.5° | 1089.5 | 787.7  | 155.9  | 110.2  | 95.4   | 88.1   | 87.6   | 88.4   | 91.7   | 95.4   | 96.2   |
| 45°   | 1191.0 | 829.3  | 154.6  | 111.9  | 93.9   | 83.8   | 81.5   | 82.4   | 87.6   | 93.4   | 94.4   |
| 47.5° | 1320.7 | 892.7  | 164.7  | 117.2  | 95.2   | 81.5   | 77.6   | 79.0   | 85.3   | 93.2   | 94.4   |
| 50°   | 1477.9 | 981.3  | 181.8  | 125.1  | 100.8  | 82.0   | 76.4   | 77.1   | 83.8   | 92.4   | 93.7   |
| 52.5° | 1663.4 | 1107.0 | 200.3  | 132.8  | 106.6  | 85.3   | 77.4   | 75.6   | 81.7   | 89.3   | 90.8   |
| 55°   | 1869.9 | 1268.3 | 219.3  | 139.6  | 109.7  | 89.3   | 79.5   | 73.7   | 77.9   | 84.3   | 85.5   |
| 57.5° | 2123.1 | 1493.6 | 252.4  | 146.2  | 111.7  | 92.2   | 81.5   | 71.6   | 73.1   | 77.6   | 78.7   |
| 60°   | 2466.1 | 1812.5 | 310.5  | 157.1  | 116.3  | 93.2   | 81.2   | 69.8   | 68.3   | 70.8   | 71.3   |
| 62.5° | 2877.0 | 2158.7 | 359.0  | 170.8  | 123.9  | 93.9   | 79.7   | 68.5   | 64.2   | 64.2   | 64.8   |
| 65°   | 3121.0 | 2251.3 | 332.0  | 182.3  | 130.2  | 93.2   | 77.9   | 67.3   | 61.2   | 58.4   | 58.6   |
| 67.5° | 2914.1 | 1980.0 | 284.6  | 184.5  | 130.0  | 89.6   | 75.2   | 65.0   | 58.1   | 53.8   | 53.6   |
| 69°   | 2655.0 | 1708.3 | 263.2  | 178.4  | 123.9  | 85.0   | 71.6   | 62.4   | 55.9   | 51.2   | 51.0   |
| 70°   | 2446.1 | 1542.6 | 249.3  | 171.9  | 117.2  | 81.7   | 68.7   | 60.1   | 54.1   | 49.7   | 49.2   |
| 72.5° | 1778.4 | 1010.8 | 213.0  | 147.7  | 96.7   | 68.5   | 59.4   | 52.8   | 48.2   | 45.7   | 45.2   |
| 75°   | 888.7  | 482.0  | 172.9  | 119.8  | 74.2   | 54.8   | 48.7   | 44.2   | 41.8   | 41.3   | 41.1   |
| 77.5° | 292.0  | 220.9  | 123.6  | 89.3   | 55.0   | 42.9   | 39.4   | 36.0   | 35.5   | 37.0   | 36.5   |
| 80°   | 160.4  | 128.5  | 78.5   | 59.1   | 37.5   | 31.5   | 31.0   | 29.2   | 30.0   | 32.5   | 32.0   |
| 82.5° | 81.7   | 66.8   | 48.5   | 35.5   | 25.4   | 22.6   | 24.7   | 23.6   | 24.7   | 26.9   | 26.7   |
| 85°   | 40.4   | 36.5   | 30.7   | 21.6   | 16.8   | 14.4   | 17.5   | 18.3   | 18.8   | 20.6   | 20.6   |
| 87.5° | 23.3   | 21.6   | 16.3   | 10.1   | 8.4    | 7.6    | 10.1   | 9.9    | 11.7   | 12.7   | 12.5   |
| 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)