

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: P191159

Luminaire Tested: **GAN-AF-01-LED-U-SL3-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191159
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: GAN-AF-01-LED-U-SL3-800-ADJ
Description: GALLEON AREA AND ROADWAY 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: 5151.6 lumens
Efficiency: N/A
Efficacy: 117.1 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

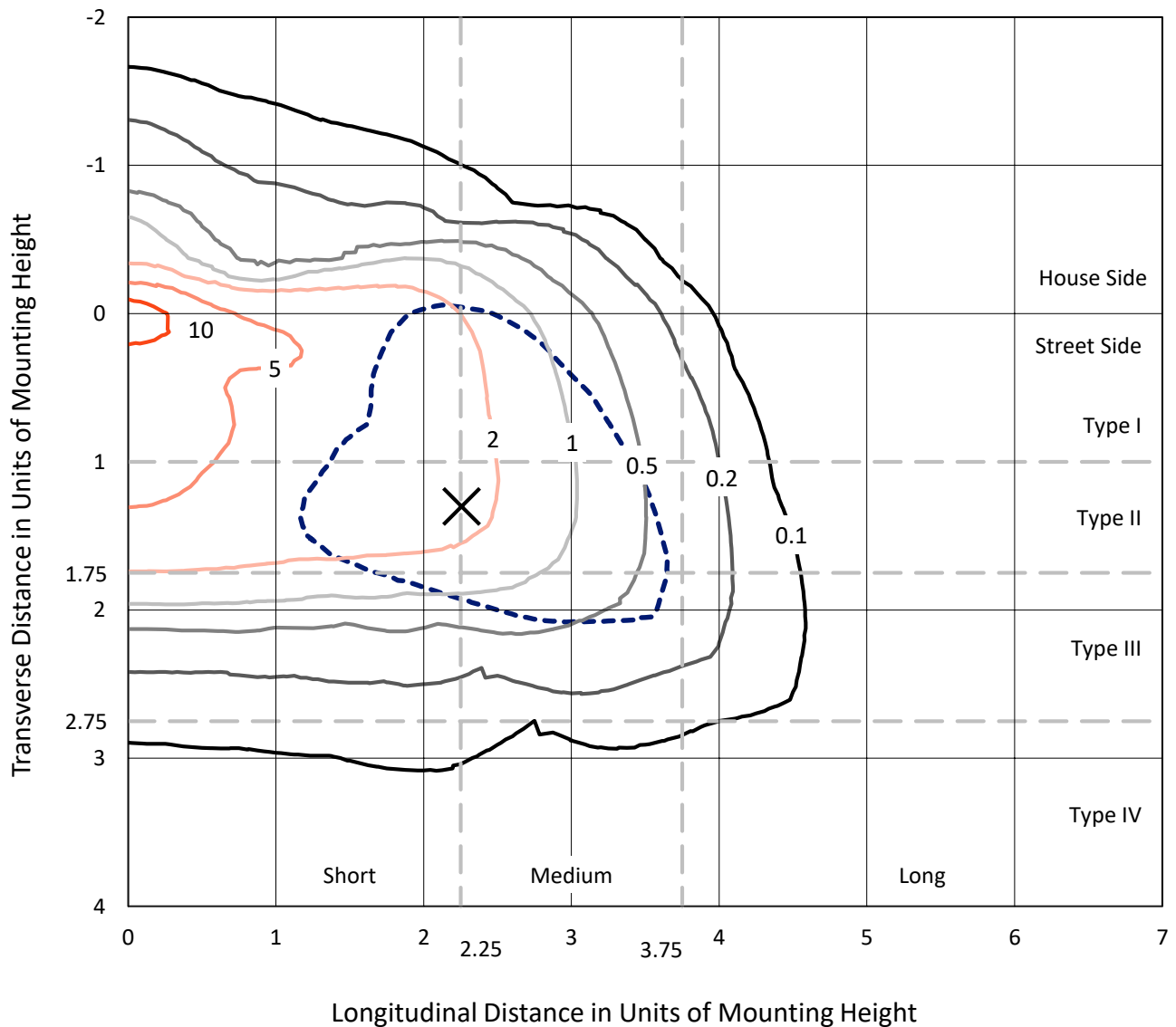
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

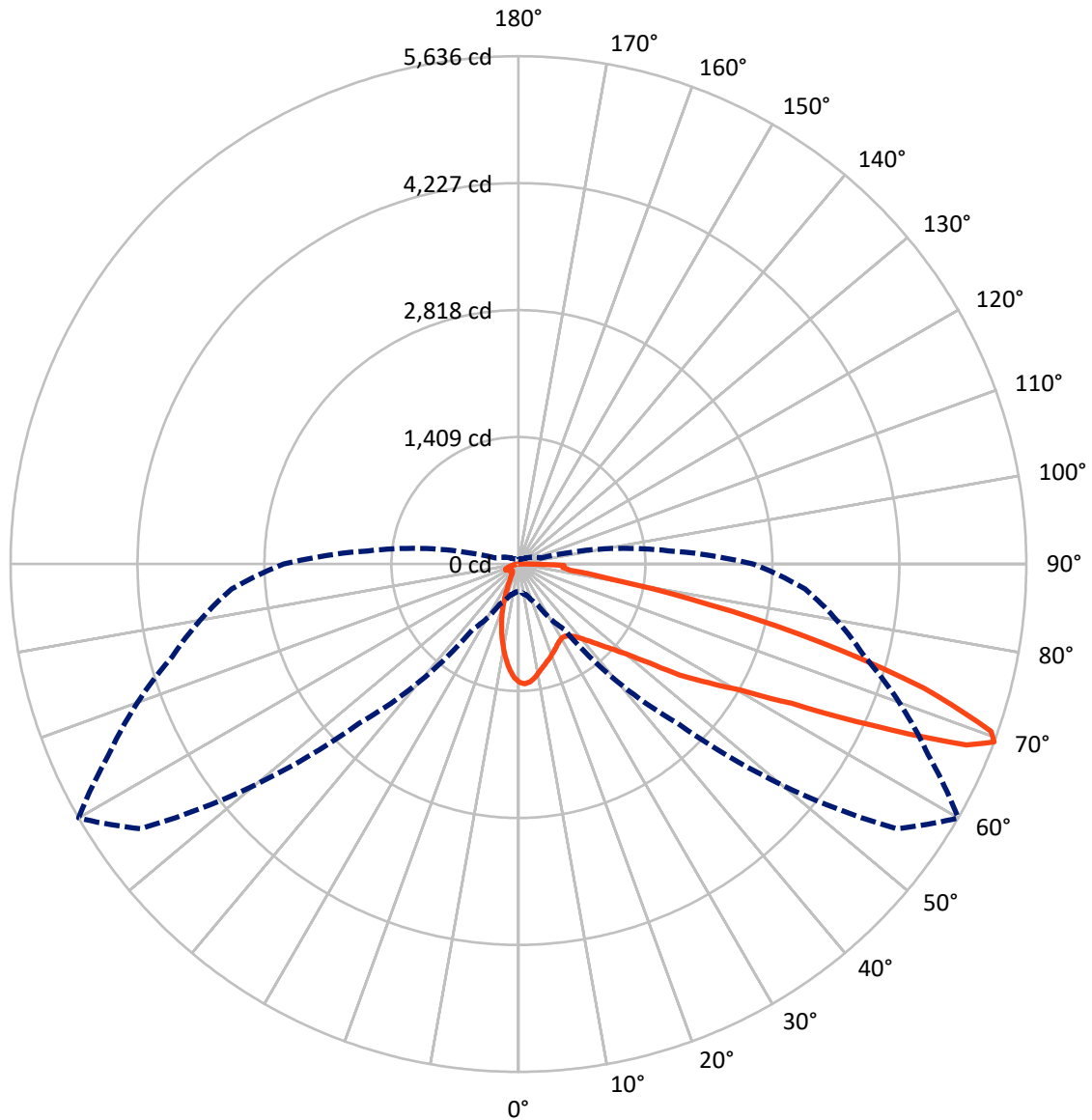
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 732.9 | 0.0 | 732.9 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 4418.7 | 0.0 | 4418.7 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 5151.6 | 0.0 | 5151.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 111.0 | 2.2 |
| 10°-20° | 236.5 | 4.6 |
| 20°-30° | 301.3 | 5.8 |
| 30°-40° | 414.2 | 8.0 |
| 40°-50° | 672.1 | 13.0 |
| 50°-60° | 1077.9 | 20.9 |
| 60°-70° | 1434.6 | 27.8 |
| 70°-80° | 774.6 | 15.0 |
| 80°-90° | 129.3 | 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° | 5151.6 | 100.0 |
| 0°-180° | 5151.6 | 100.0 |

Coefficient of Utilization



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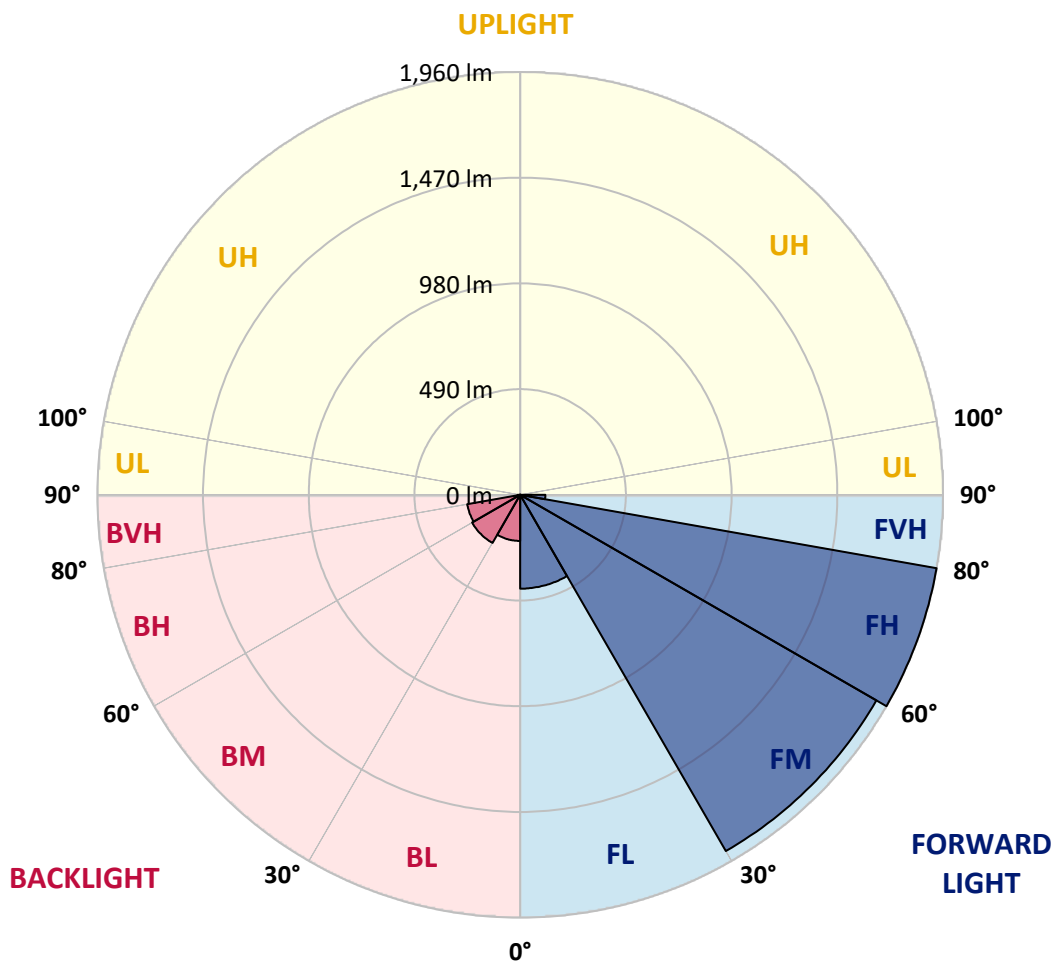
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 435.0 | 8.4 | | | |
| FM (30°-60°) | 1906.8 | 37.0 | | | |
| FH (60°-80°) | 1960.1 | 38.0 | | | G2/5000 |
| FVH (80°-90°) | 116.8 | 2.3 | | | G2/225 |
| BL (0°-30°) | 213.8 | 4.2 | B1/500 | | |
| BM (30°-60°) | 257.5 | 5.0 | B1/1000 | | |
| BH (60°-80°) | 249.2 | 4.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 12.5 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 |
| 2.5° | 1339.6 | 1342.5 | 1341.3 | 1340.6 | 1342.8 | 1339.3 | 1332.1 | 1329.8 | 1326.4 | 1318.2 | 1304.3 |
| 5° | 1289.3 | 1298.2 | 1297.8 | 1304.5 | 1315.7 | 1318.7 | 1315.4 | 1315.9 | 1309.5 | 1299.2 | 1276.1 |
| 7.5° | 1202.5 | 1206.2 | 1208.2 | 1222.8 | 1243.3 | 1259.7 | 1273.7 | 1278.1 | 1275.1 | 1266.4 | 1236.5 |
| 10° | 1112.9 | 1115.8 | 1120.5 | 1137.7 | 1163.6 | 1186.3 | 1212.7 | 1227.8 | 1234.3 | 1232.9 | 1199.5 |
| 12.5° | 1035.9 | 1039.0 | 1045.1 | 1064.6 | 1095.5 | 1123.3 | 1161.7 | 1180.6 | 1196.0 | 1205.2 | 1169.3 |
| 15° | 967.0 | 973.5 | 979.5 | 1001.9 | 1036.5 | 1073.1 | 1116.3 | 1140.3 | 1164.1 | 1184.8 | 1142.7 |
| 17.5° | 913.3 | 919.7 | 923.2 | 943.7 | 980.5 | 1025.3 | 1076.0 | 1104.2 | 1134.0 | 1167.9 | 1116.3 |
| 20° | 882.2 | 885.2 | 883.7 | 895.1 | 928.2 | 975.8 | 1035.9 | 1068.6 | 1104.7 | 1151.9 | 1090.0 |
| 22.5° | 873.5 | 873.7 | 868.3 | 867.1 | 888.4 | 928.4 | 993.2 | 1032.8 | 1077.1 | 1141.5 | 1067.3 |
| 25° | 894.7 | 893.9 | 878.9 | 866.7 | 869.0 | 892.4 | 951.9 | 997.9 | 1053.8 | 1139.3 | 1050.0 |
| 27.5° | 941.6 | 943.9 | 921.8 | 898.9 | 876.3 | 875.4 | 920.6 | 969.0 | 1035.0 | 1149.5 | 1042.5 |
| 30° | 1007.6 | 1011.3 | 987.7 | 958.6 | 916.1 | 881.0 | 908.3 | 951.9 | 1023.3 | 1170.6 | 1041.2 |
| 32.5° | 1079.7 | 1083.7 | 1065.8 | 1035.2 | 979.5 | 914.8 | 916.8 | 953.4 | 1022.7 | 1200.2 | 1049.6 |
| 35° | 1156.7 | 1161.2 | 1151.9 | 1126.1 | 1064.1 | 977.2 | 949.1 | 977.5 | 1039.0 | 1245.5 | 1072.4 |
| 37.5° | 1242.5 | 1249.5 | 1252.0 | 1227.3 | 1161.2 | 1059.6 | 1002.1 | 1023.3 | 1075.5 | 1308.5 | 1113.9 |
| 40° | 1366.3 | 1375.9 | 1375.2 | 1339.9 | 1272.3 | 1170.9 | 1084.0 | 1089.4 | 1132.5 | 1392.5 | 1180.3 |
| 42.5° | 1603.1 | 1605.1 | 1543.1 | 1466.2 | 1394.8 | 1287.8 | 1180.6 | 1176.1 | 1211.2 | 1499.1 | 1278.1 |
| 45° | 1904.4 | 1896.2 | 1758.4 | 1609.8 | 1522.8 | 1422.2 | 1306.2 | 1284.3 | 1310.9 | 1628.9 | 1400.5 |
| 47.5° | 2154.5 | 2135.6 | 1961.5 | 1756.4 | 1658.1 | 1568.3 | 1453.8 | 1415.5 | 1430.2 | 1776.4 | 1558.8 |
| 50° | 2241.4 | 2227.3 | 2082.9 | 1878.3 | 1786.3 | 1746.5 | 1635.5 | 1581.2 | 1585.2 | 1952.0 | 1744.2 |
| 52.5° | 2222.8 | 2220.7 | 2124.5 | 1958.7 | 1906.2 | 1933.6 | 1892.8 | 1819.3 | 1780.5 | 2147.1 | 1944.3 |
| 55° | 2178.7 | 2183.0 | 2148.1 | 2052.2 | 2043.3 | 2114.2 | 2229.0 | 2174.7 | 2054.1 | 2344.0 | 2151.1 |
| 57.5° | 2025.6 | 2036.6 | 2113.2 | 2170.0 | 2264.1 | 2369.6 | 2499.7 | 2484.3 | 2348.4 | 2556.8 | 2397.0 |
| 60° | 1632.0 | 1657.4 | 1862.9 | 2147.1 | 2491.3 | 2821.3 | 2879.5 | 2843.6 | 2652.0 | 2820.8 | 2721.7 |
| 62.5° | 1143.5 | 1169.8 | 1414.2 | 1858.9 | 2454.0 | 3331.4 | 3558.3 | 3403.8 | 3088.0 | 3209.7 | 3142.0 |
| 65° | 612.1 | 624.9 | 811.5 | 1289.8 | 2071.7 | 3436.7 | 4550.5 | 4315.3 | 3778.4 | 3689.3 | 3501.7 |
| 67.5° | 337.7 | 344.6 | 416.0 | 651.2 | 1326.9 | 3026.3 | 5182.6 | 5360.3 | 4641.1 | 4008.5 | 3436.2 |
| 69° | 305.4 | 311.8 | 358.6 | 493.3 | 887.9 | 2502.2 | 5120.9 | 5635.7 | 5019.4 | 3976.9 | 3194.3 |
| 70° | 298.6 | 304.6 | 346.7 | 454.7 | 718.7 | 2062.5 | 4914.2 | 5565.4 | 5109.4 | 3863.7 | 2983.2 |
| 72.5° | 268.7 | 275.3 | 316.1 | 408.4 | 614.2 | 1028.3 | 3892.5 | 4705.6 | 4638.9 | 3350.1 | 2262.9 |
| 75° | 250.6 | 256.6 | 325.7 | 399.9 | 588.0 | 650.8 | 2566.2 | 3468.0 | 3410.0 | 2343.5 | 1220.2 |
| 77.5° | 107.2 | 106.8 | 151.1 | 338.4 | 596.8 | 630.1 | 1378.9 | 2166.5 | 1976.6 | 1001.7 | 350.4 |
| 80° | 71.7 | 70.4 | 71.7 | 99.5 | 547.3 | 633.6 | 722.4 | 1099.7 | 830.6 | 255.3 | 172.7 |
| 82.5° | 61.7 | 60.8 | 62.9 | 60.8 | 192.3 | 723.1 | 614.2 | 584.8 | 395.0 | 145.1 | 85.6 |
| 85° | 41.5 | 39.8 | 54.2 | 54.5 | 90.8 | 642.5 | 691.8 | 494.0 | 319.6 | 86.1 | 42.4 |
| 87.5° | 19.9 | 19.4 | 31.6 | 38.6 | 53.3 | 261.1 | 776.2 | 506.2 | 322.2 | 44.1 | 20.2 |
| 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-SL3-800-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 | 1312.7 |
| 2.5° | 1300.0 | 1289.8 | 1279.8 | 1267.9 | 1255.5 | 1241.6 | 1234.6 | 1227.6 | 1225.8 | 1223.9 | 1216.9 |
| 5° | 1264.2 | 1249.7 | 1224.9 | 1197.5 | 1168.6 | 1140.5 | 1119.1 | 1105.6 | 1095.5 | 1090.3 | 1081.1 |
| 7.5° | 1217.9 | 1196.8 | 1153.2 | 1105.9 | 1057.4 | 1013.1 | 974.8 | 950.6 | 927.7 | 917.0 | 904.8 |
| 10° | 1173.8 | 1142.2 | 1074.5 | 1004.8 | 935.2 | 868.3 | 805.3 | 760.8 | 721.2 | 699.0 | 683.3 |
| 12.5° | 1136.0 | 1092.7 | 998.9 | 904.6 | 809.1 | 713.7 | 619.4 | 545.2 | 483.2 | 450.7 | 434.0 |
| 15° | 1099.2 | 1046.9 | 927.0 | 807.3 | 684.6 | 555.0 | 431.0 | 346.9 | 295.6 | 275.3 | 268.2 |
| 17.5° | 1065.8 | 998.9 | 854.8 | 709.2 | 556.2 | 399.4 | 289.7 | 243.4 | 223.7 | 217.0 | 214.7 |
| 20° | 1029.8 | 950.3 | 779.9 | 606.7 | 422.3 | 279.2 | 226.2 | 205.8 | 197.8 | 195.9 | 194.9 |
| 22.5° | 994.9 | 902.5 | 708.2 | 496.9 | 303.3 | 215.5 | 194.4 | 185.9 | 184.6 | 186.4 | 186.4 |
| 25° | 965.3 | 859.8 | 630.9 | 382.3 | 222.7 | 181.4 | 173.9 | 172.0 | 176.7 | 183.1 | 184.4 |
| 27.5° | 943.2 | 824.7 | 548.5 | 282.2 | 177.5 | 157.7 | 157.5 | 160.8 | 172.5 | 184.8 | 187.4 |
| 30° | 928.0 | 791.4 | 460.3 | 203.6 | 148.8 | 138.8 | 142.8 | 149.8 | 166.9 | 184.6 | 189.3 |
| 32.5° | 920.2 | 766.7 | 368.6 | 157.5 | 127.5 | 121.9 | 128.7 | 137.1 | 154.1 | 170.4 | 176.7 |
| 35° | 926.3 | 748.6 | 281.9 | 131.3 | 112.5 | 108.2 | 115.2 | 123.5 | 133.4 | 140.3 | 145.1 |
| 37.5° | 948.6 | 741.3 | 212.8 | 117.7 | 102.3 | 98.3 | 103.7 | 108.5 | 112.5 | 114.5 | 116.7 |
| 40° | 996.9 | 749.0 | 170.4 | 110.8 | 96.6 | 91.6 | 93.8 | 95.5 | 98.0 | 100.0 | 101.1 |
| 42.5° | 1068.1 | 772.2 | 152.8 | 108.0 | 93.6 | 86.3 | 85.8 | 86.6 | 89.8 | 93.6 | 94.3 |
| 45° | 1167.6 | 813.0 | 151.6 | 109.8 | 92.1 | 82.1 | 79.9 | 80.9 | 85.8 | 91.6 | 92.6 |
| 47.5° | 1294.7 | 875.2 | 161.5 | 115.0 | 93.3 | 79.9 | 76.1 | 77.4 | 83.6 | 91.3 | 92.6 |
| 50° | 1448.8 | 962.1 | 178.2 | 122.7 | 98.8 | 80.4 | 74.9 | 75.7 | 82.1 | 90.6 | 91.9 |
| 52.5° | 1630.7 | 1085.2 | 196.3 | 130.1 | 104.5 | 83.6 | 75.9 | 74.2 | 80.1 | 87.6 | 89.1 |
| 55° | 1833.0 | 1243.3 | 215.0 | 136.9 | 107.5 | 87.6 | 77.8 | 72.1 | 76.4 | 82.7 | 83.9 |
| 57.5° | 2081.4 | 1464.3 | 247.3 | 143.3 | 109.5 | 90.3 | 79.9 | 70.2 | 71.7 | 76.1 | 77.1 |
| 60° | 2417.6 | 1776.8 | 304.3 | 154.1 | 114.0 | 91.3 | 79.6 | 68.4 | 66.9 | 69.5 | 70.0 |
| 62.5° | 2820.5 | 2116.3 | 351.9 | 167.5 | 121.4 | 92.1 | 78.2 | 67.2 | 62.9 | 62.9 | 63.4 |
| 65° | 3059.6 | 2207.1 | 325.5 | 178.7 | 127.7 | 91.3 | 76.4 | 66.0 | 59.9 | 57.3 | 57.5 |
| 67.5° | 2856.8 | 1941.0 | 279.0 | 181.0 | 127.5 | 87.9 | 73.7 | 63.7 | 57.0 | 52.8 | 52.5 |
| 69° | 2602.8 | 1674.8 | 258.1 | 174.9 | 121.4 | 83.4 | 70.2 | 61.2 | 54.7 | 50.2 | 50.0 |
| 70° | 2397.9 | 1512.3 | 244.4 | 168.5 | 115.0 | 80.1 | 67.4 | 59.0 | 53.0 | 48.8 | 48.3 |
| 72.5° | 1743.4 | 990.9 | 208.8 | 144.8 | 94.8 | 67.2 | 58.2 | 51.8 | 47.3 | 44.8 | 44.3 |
| 75° | 871.2 | 472.6 | 169.5 | 117.4 | 72.6 | 53.7 | 47.8 | 43.3 | 41.0 | 40.6 | 40.3 |
| 77.5° | 286.2 | 216.5 | 121.2 | 87.6 | 54.0 | 42.0 | 38.6 | 35.3 | 34.9 | 36.3 | 35.8 |
| 80° | 157.2 | 125.9 | 76.9 | 58.0 | 36.8 | 30.9 | 30.4 | 28.6 | 29.4 | 31.8 | 31.4 |
| 82.5° | 80.1 | 65.5 | 47.6 | 34.9 | 24.9 | 22.2 | 24.1 | 23.1 | 24.1 | 26.4 | 26.1 |
| 85° | 39.6 | 35.8 | 30.1 | 21.2 | 16.5 | 14.2 | 17.2 | 17.9 | 18.4 | 20.2 | 20.2 |
| 87.5° | 22.9 | 21.2 | 16.0 | 9.9 | 8.2 | 7.5 | 9.9 | 9.7 | 11.5 | 12.5 | 12.2 |
| 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)