

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: McGRAW-EDISON

Report Number: P451702

Luminaire Tested: **GALN-SA2C-760-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451702  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-760-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14276 lumens  
Efficiency: N/A  
Efficacy: 132.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

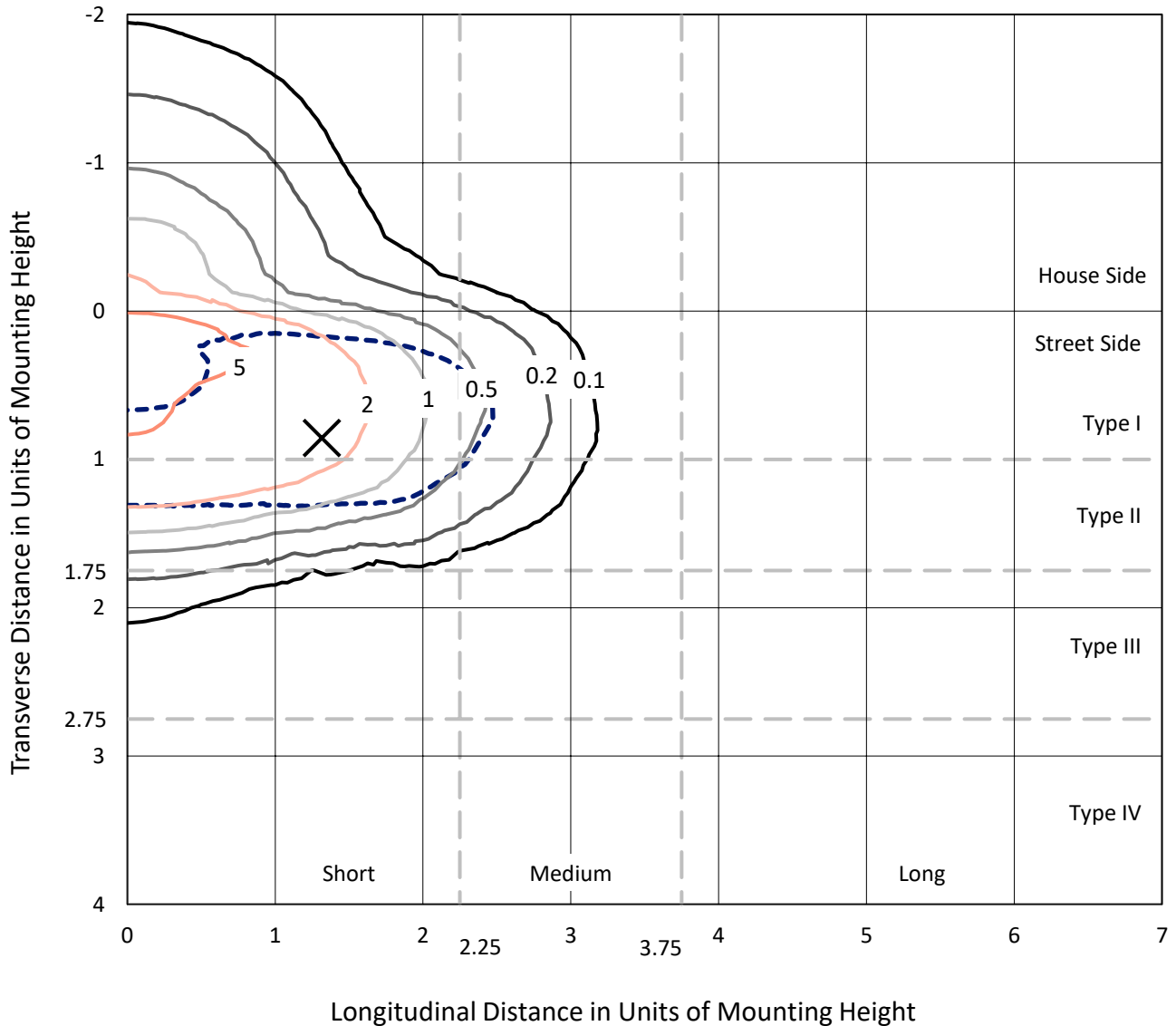
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P451702  
 CATALOG NUMBER: GALN-SA2C-760-U-AFL

### Iso-Footcandle Lines of Horizontal Illumination

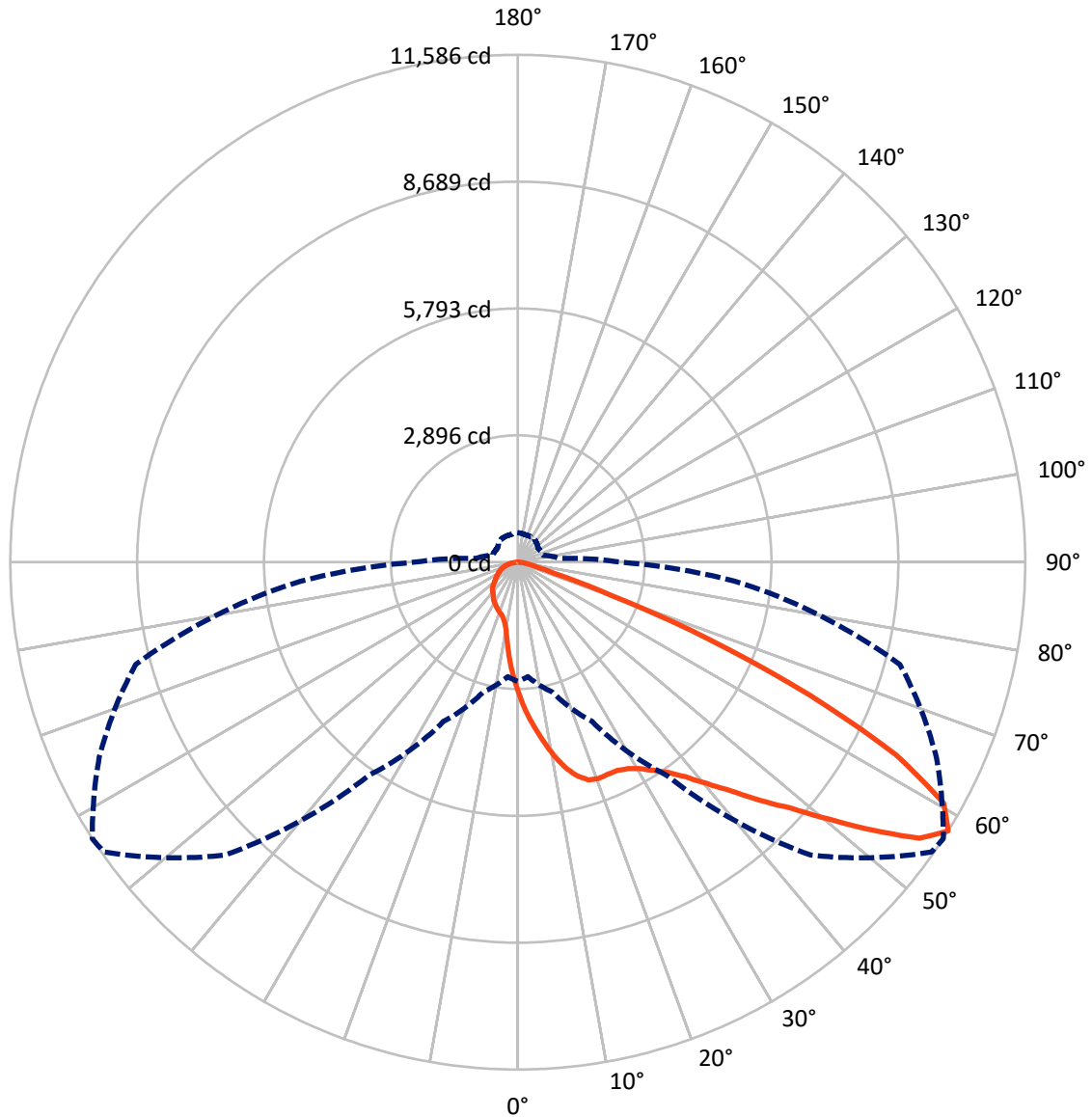
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P451702  
CATALOG NUMBER: GALN-SA2C-760-U-AFL

### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P451702

CATALOG NUMBER: GALN-SA2C-760-U-AFL

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2171.0   | 0.0    | 2171.0  |
|                    | % Fixture | 15.2     | 0.0    | 15.2    |
| <b>Street Side</b> | Lumens    | 12105.0  | 0.0    | 12105.0 |
|                    | % Fixture | 84.8     | 0.0    | 84.8    |
| <b>Total</b>       | Lumens    | 14276.0  | 0.0    | 14276.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 288.3   | 2.0       |
| 10°-20°   | 849.5   | 6.0       |
| 20°-30°   | 1410.6  | 9.9       |
| 30°-40°   | 2124.8  | 14.9      |
| 40°-50°   | 3190.2  | 22.3      |
| 50°-60°   | 3575.8  | 25.0      |
| 60°-70°   | 2092.7  | 14.7      |
| 70°-80°   | 619.0   | 4.3       |
| 80°-90°   | 125.1   | 0.9       |
| 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°    | 14276.0 | 100.0     |
| 0°-180°   | 14276.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P451702

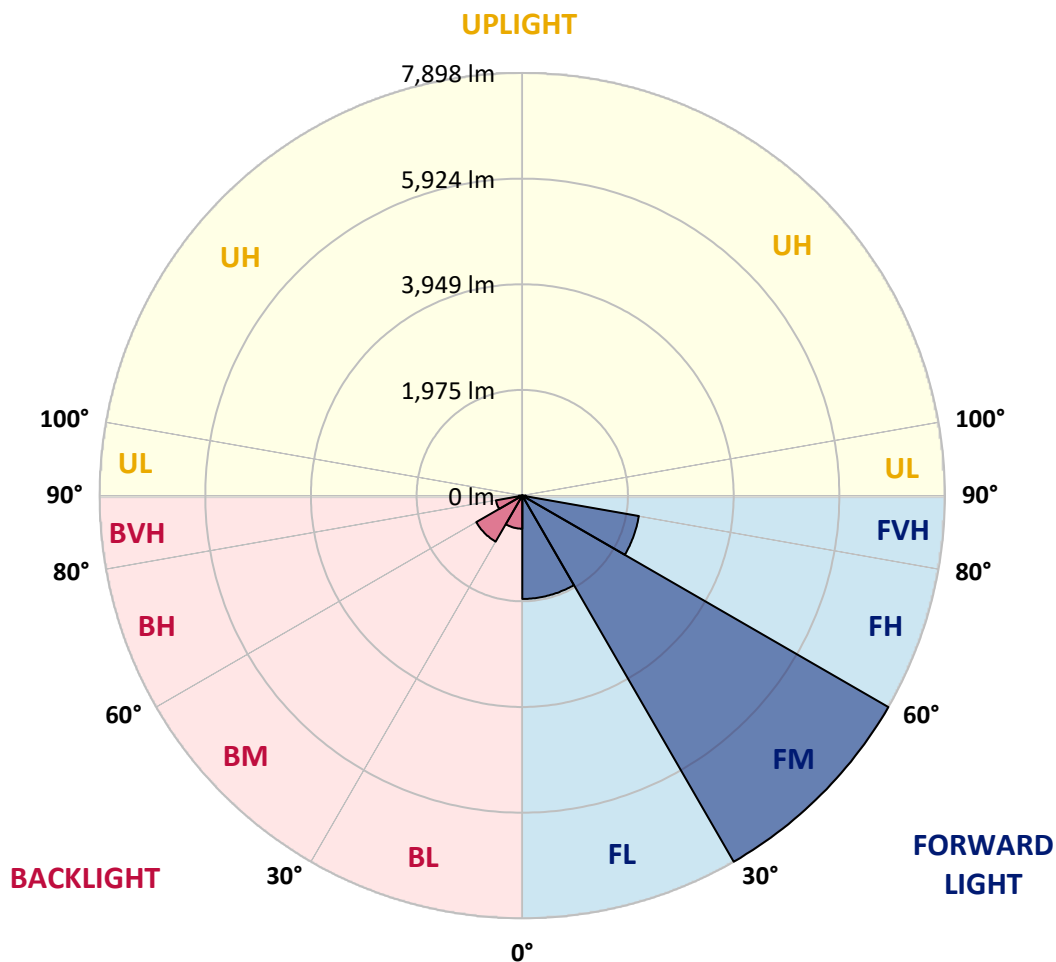
CATALOG NUMBER: GALN-SA2C-760-U-AFL

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1929.8 | 13.5      |                         |      |         |
| FM   | (30°-60°)   | 7898.1 | 55.3      |                         |      |         |
| FH   | (60°-80°)   | 2212.2 | 15.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 64.9   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 618.6  | 4.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 992.7  | 7.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 499.5  | 3.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 60.2   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short





REPORT NUMBER: P451702  
 CATALOG NUMBER: GALN-SA2C-760-U-AFL

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 57°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|
| 0°    | 2999.2 | 2999.2 | 2999.2 | 2999.2 | 2999.2 | 2999.2  | 2999.2  | 2999.2  | 2999.2  | 2999.2 | 2999.2 |
| 2.5°  | 3726.8 | 3686.1 | 3654.1 | 3626.0 | 3589.2 | 3490.0  | 3390.7  | 3389.2  | 3310.2  | 3188.3 | 3063.3 |
| 5°    | 4333.9 | 4279.2 | 4286.3 | 4198.8 | 4111.2 | 3967.4  | 3757.2  | 3746.3  | 3578.3  | 3350.1 | 3118.0 |
| 7.5°  | 4729.4 | 4730.1 | 4708.3 | 4658.3 | 4563.7 | 4400.4  | 4162.0  | 4108.1  | 3874.5  | 3528.3 | 3180.5 |
| 10°   | 4709.0 | 4730.1 | 4766.9 | 4809.9 | 4838.8 | 4758.3  | 4541.0  | 4475.4  | 4171.4  | 3744.0 | 3250.1 |
| 12.5° | 4438.7 | 4471.5 | 4523.8 | 4631.7 | 4805.9 | 4938.8  | 4864.6  | 4811.4  | 4515.2  | 3958.9 | 3326.7 |
| 15°   | 4269.9 | 4289.4 | 4318.3 | 4391.0 | 4578.5 | 4896.6  | 5088.8  | 5060.7  | 4839.6  | 4201.9 | 3412.6 |
| 17.5° | 4218.3 | 4237.8 | 4247.2 | 4291.8 | 4425.4 | 4751.2  | 5177.1  | 5227.2  | 5127.1  | 4425.4 | 3499.4 |
| 20°   | 4269.9 | 4279.2 | 4279.2 | 4305.8 | 4410.5 | 4666.1  | 5173.2  | 5274.0  | 5363.1  | 4693.4 | 3580.6 |
| 22.5° | 4405.1 | 4409.0 | 4403.5 | 4412.9 | 4491.0 | 4689.5  | 5136.5  | 5261.5  | 5553.8  | 4920.8 | 3643.9 |
| 25°   | 4624.7 | 4630.9 | 4595.0 | 4573.1 | 4630.1 | 4792.7  | 5156.8  | 5271.7  | 5703.1  | 5138.1 | 3686.1 |
| 27.5° | 4873.9 | 4881.7 | 4838.0 | 4787.2 | 4813.8 | 4920.0  | 5236.5  | 5339.7  | 5814.8  | 5352.2 | 3712.7 |
| 30°   | 5179.5 | 5182.6 | 5109.2 | 5048.2 | 5031.0 | 5109.9  | 5372.5  | 5468.6  | 5953.9  | 5604.6 | 3752.5 |
| 32.5° | 5492.1 | 5515.5 | 5421.0 | 5335.0 | 5306.1 | 5330.3  | 5573.3  | 5666.3  | 6119.6  | 5875.8 | 3816.6 |
| 35°   | 5917.2 | 5921.1 | 5807.8 | 5703.1 | 5607.7 | 5639.0  | 5830.4  | 5897.6  | 6348.5  | 6189.1 | 3907.3 |
| 37.5° | 6447.8 | 6483.7 | 6327.4 | 6132.1 | 6014.9 | 5969.5  | 6141.5  | 6214.9  | 6669.7  | 6573.6 | 4044.0 |
| 40°   | 7037.0 | 7050.3 | 6916.7 | 6794.8 | 6580.6 | 6449.3  | 6568.1  | 6647.8  | 7065.9  | 7032.3 | 4202.7 |
| 42.5° | 7407.4 | 7436.3 | 7446.5 | 7434.0 | 7273.0 | 7052.6  | 7098.0  | 7135.5  | 7534.8  | 7462.9 | 4365.2 |
| 45°   | 7532.4 | 7575.4 | 7720.8 | 8028.7 | 8045.9 | 7828.6  | 7723.1  | 7759.1  | 8045.9  | 7897.4 | 4520.7 |
| 47.5° | 7325.4 | 7398.8 | 7666.9 | 8298.3 | 8771.1 | 8787.5  | 8469.4  | 8390.5  | 8511.6  | 8257.6 | 4633.2 |
| 50°   | 6790.1 | 6805.7 | 7216.0 | 8130.3 | 9111.0 | 9704.1  | 9375.1  | 9228.2  | 8953.9  | 8524.1 | 4710.6 |
| 52.5° | 5961.7 | 5979.7 | 6323.5 | 7349.6 | 8901.6 | 10344.9 | 10434.8 | 10172.2 | 9403.2  | 8731.2 | 4761.4 |
| 55°   | 4425.4 | 4529.3 | 4907.5 | 5899.2 | 7909.1 | 10284.7 | 11277.2 | 11127.9 | 9946.4  | 8895.3 | 4841.1 |
| 57.5° | 2721.0 | 2625.7 | 3074.2 | 4013.6 | 5948.4 | 9457.9  | 11537.4 | 11585.9 | 10544.2 | 9032.8 | 4974.7 |
| 60°   | 1251.9 | 1270.6 | 1455.9 | 2070.1 | 3626.0 | 7398.8  | 10866.9 | 11173.2 | 10874.7 | 9028.1 | 5008.3 |
| 62.5° | 862.7  | 845.5  | 798.6  | 908.8  | 1653.6 | 4679.4  | 9179.0  | 9697.9  | 10212.1 | 8747.6 | 4874.7 |
| 65°   | 771.3  | 754.1  | 663.5  | 633.0  | 759.6  | 2039.6  | 6672.8  | 7327.7  | 8598.3  | 8039.6 | 4541.8 |
| 67.5° | 720.5  | 697.1  | 603.3  | 543.9  | 542.3  | 811.9   | 3934.6  | 4723.1  | 6377.5  | 6797.1 | 3935.4 |
| 70°   | 667.4  | 648.6  | 555.6  | 490.0  | 461.8  | 510.3   | 1729.4  | 2263.9  | 4140.9  | 4898.2 | 3065.6 |
| 72.5° | 614.2  | 592.3  | 508.7  | 438.4  | 401.7  | 382.1   | 662.7   | 861.9   | 2339.7  | 2936.7 | 1879.4 |
| 75°   | 536.9  | 525.9  | 454.8  | 397.0  | 357.1  | 308.7   | 420.4   | 479.8   | 1119.0  | 1348.8 | 943.2  |
| 77.5° | 469.7  | 457.9  | 404.0  | 347.0  | 318.1  | 250.8   | 298.5   | 325.9   | 472.0   | 547.0  | 425.9  |
| 80°   | 343.8  | 355.6  | 340.7  | 306.3  | 283.7  | 196.9   | 200.8   | 223.5   | 280.5   | 310.2  | 260.2  |
| 82.5° | 218.0  | 239.9  | 262.6  | 236.0  | 214.9  | 155.5   | 139.1   | 147.7   | 191.5   | 203.2  | 115.7  |
| 85°   | 91.4   | 93.0   | 152.4  | 143.8  | 122.7  | 92.2    | 83.6    | 88.3    | 102.4   | 107.1  | 53.9   |
| 87.5° | 35.2   | 34.4   | 53.9   | 50.0   | 38.3   | 26.6    | 26.6    | 29.7    | 40.6    | 37.5   | 17.2   |
| 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: P451702  
 CATALOG NUMBER: GALN-SA2C-760-U-AFL

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2999.2 | 2999.2 | 2999.2 | 2999.2 | 2999.2 | 2999.2 | 2999.2 | 2999.2 | 2999.2 | 2999.2 | 2999.2 |
| 2.5°  | 3009.4 | 2953.9 | 2843.7 | 2707.0 | 2606.9 | 2494.4 | 2395.2 | 2324.0 | 2297.5 | 2285.0 | 2261.5 |
| 5°    | 3007.0 | 2897.6 | 2669.5 | 2430.3 | 2238.1 | 2041.2 | 1874.7 | 1766.9 | 1757.5 | 1685.6 | 1678.6 |
| 7.5°  | 3007.8 | 2840.6 | 2477.2 | 2125.6 | 1832.5 | 1630.9 | 1493.4 | 1457.4 | 1414.4 | 1403.5 | 1409.0 |
| 10°   | 3010.2 | 2767.9 | 2270.9 | 1823.9 | 1540.2 | 1408.2 | 1356.6 | 1342.5 | 1344.1 | 1348.8 | 1349.6 |
| 12.5° | 3013.3 | 2697.6 | 2056.8 | 1594.9 | 1376.1 | 1321.4 | 1316.0 | 1328.5 | 1341.8 | 1351.9 | 1354.3 |
| 15°   | 3017.2 | 2617.1 | 1848.1 | 1410.5 | 1294.1 | 1289.4 | 1307.4 | 1328.5 | 1347.2 | 1362.1 | 1364.4 |
| 17.5° | 3012.5 | 2523.3 | 1673.1 | 1297.2 | 1248.8 | 1271.4 | 1301.1 | 1327.7 | 1344.9 | 1359.0 | 1360.5 |
| 20°   | 3001.6 | 2418.6 | 1504.3 | 1217.5 | 1220.6 | 1257.4 | 1289.4 | 1314.4 | 1333.2 | 1340.2 | 1345.7 |
| 22.5° | 2959.4 | 2293.6 | 1357.4 | 1155.8 | 1187.0 | 1237.8 | 1276.1 | 1291.0 | 1269.9 | 1255.0 | 1258.9 |
| 25°   | 2887.5 | 2131.0 | 1220.6 | 1105.8 | 1156.6 | 1210.5 | 1249.5 | 1213.6 | 1196.4 | 1190.2 | 1193.3 |
| 27.5° | 2797.6 | 1952.9 | 1117.5 | 1053.4 | 1117.5 | 1180.0 | 1169.1 | 1162.8 | 1155.0 | 1144.8 | 1147.2 |
| 30°   | 2700.7 | 1778.6 | 1030.0 | 1012.8 | 1075.3 | 1111.2 | 1115.9 | 1126.1 | 1117.5 | 1101.9 | 1108.1 |
| 32.5° | 2610.8 | 1614.5 | 963.5  | 978.4  | 1045.6 | 1040.1 | 1075.3 | 1087.0 | 1047.1 | 994.8  | 997.1  |
| 35°   | 2534.3 | 1462.1 | 913.5  | 944.8  | 994.8  | 997.1  | 1032.3 | 991.7  | 948.7  | 923.7  | 925.2  |
| 37.5° | 2476.4 | 1343.3 | 880.7  | 915.9  | 929.9  | 959.6  | 940.9  | 919.8  | 914.3  | 897.1  | 897.9  |
| 40°   | 2442.0 | 1239.4 | 859.6  | 893.2  | 890.9  | 911.2  | 851.0  | 872.1  | 879.9  | 874.4  | 875.2  |
| 42.5° | 2407.7 | 1165.9 | 837.7  | 861.9  | 861.2  | 821.3  | 808.0  | 826.0  | 846.3  | 848.7  | 847.1  |
| 45°   | 2380.3 | 1108.9 | 815.1  | 814.3  | 829.9  | 767.4  | 763.5  | 774.4  | 803.3  | 817.4  | 816.6  |
| 47.5° | 2349.8 | 1061.2 | 780.7  | 758.8  | 763.5  | 733.8  | 727.5  | 732.2  | 767.4  | 790.1  | 796.3  |
| 50°   | 2311.5 | 1013.5 | 737.7  | 708.0  | 688.5  | 702.5  | 704.1  | 704.9  | 740.0  | 765.8  | 771.3  |
| 52.5° | 2281.1 | 977.6  | 688.5  | 666.6  | 643.1  | 674.4  | 686.1  | 687.7  | 708.8  | 729.9  | 733.8  |
| 55°   | 2299.0 | 957.3  | 640.0  | 624.4  | 603.3  | 645.5  | 668.1  | 671.3  | 676.0  | 691.6  | 693.9  |
| 57.5° | 2353.0 | 962.0  | 600.9  | 580.6  | 565.0  | 611.1  | 649.4  | 651.7  | 648.6  | 667.4  | 670.5  |
| 60°   | 2369.4 | 959.6  | 572.0  | 532.2  | 522.8  | 574.4  | 622.0  | 626.7  | 625.9  | 653.3  | 658.8  |
| 62.5° | 2300.6 | 929.9  | 543.1  | 491.5  | 485.3  | 536.9  | 583.7  | 602.5  | 606.4  | 645.5  | 652.5  |
| 65°   | 2138.8 | 869.0  | 504.8  | 448.6  | 448.6  | 497.0  | 547.0  | 572.8  | 583.7  | 636.1  | 643.9  |
| 67.5° | 1925.5 | 797.1  | 465.7  | 411.8  | 410.3  | 458.7  | 507.9  | 534.5  | 551.7  | 622.8  | 627.5  |
| 70°   | 1598.1 | 700.2  | 417.3  | 372.0  | 372.0  | 415.7  | 460.3  | 492.3  | 517.3  | 597.8  | 597.8  |
| 72.5° | 1094.8 | 582.2  | 358.7  | 326.6  | 327.4  | 368.1  | 413.4  | 449.3  | 479.0  | 547.8  | 549.4  |
| 75°   | 692.4  | 454.8  | 294.6  | 278.2  | 281.3  | 319.6  | 366.5  | 404.0  | 463.4  | 541.5  | 543.9  |
| 77.5° | 368.1  | 319.6  | 234.4  | 230.5  | 234.4  | 269.6  | 322.0  | 373.5  | 465.0  | 469.7  | 461.8  |
| 80°   | 238.3  | 226.6  | 185.2  | 177.4  | 179.0  | 217.2  | 286.8  | 354.8  | 373.5  | 378.2  | 361.0  |
| 82.5° | 129.7  | 143.8  | 131.3  | 123.5  | 123.5  | 169.6  | 244.6  | 282.1  | 268.0  | 222.7  | 212.6  |
| 85°   | 55.5   | 67.2   | 68.0   | 59.4   | 57.0   | 104.7  | 164.1  | 153.9  | 143.0  | 136.8  | 135.2  |
| 87.5° | 15.6   | 21.9   | 21.9   | 16.4   | 12.5   | 28.9   | 32.8   | 9.4    | 0.0    | 0.8    | 1.6    |
| 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)