

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: P454497

Luminaire Tested: **GALN-SA5C-760-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-760-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30348 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

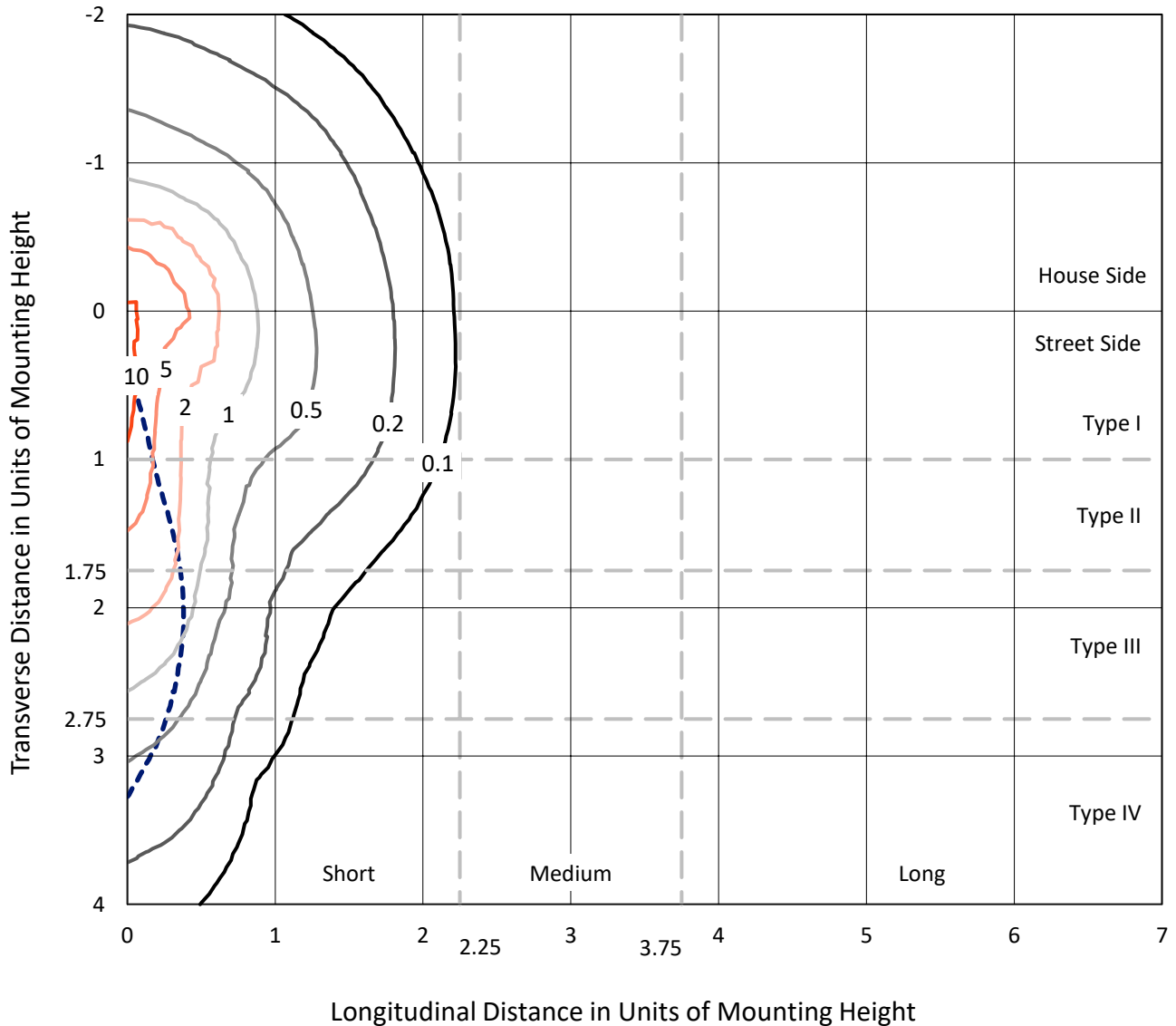
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

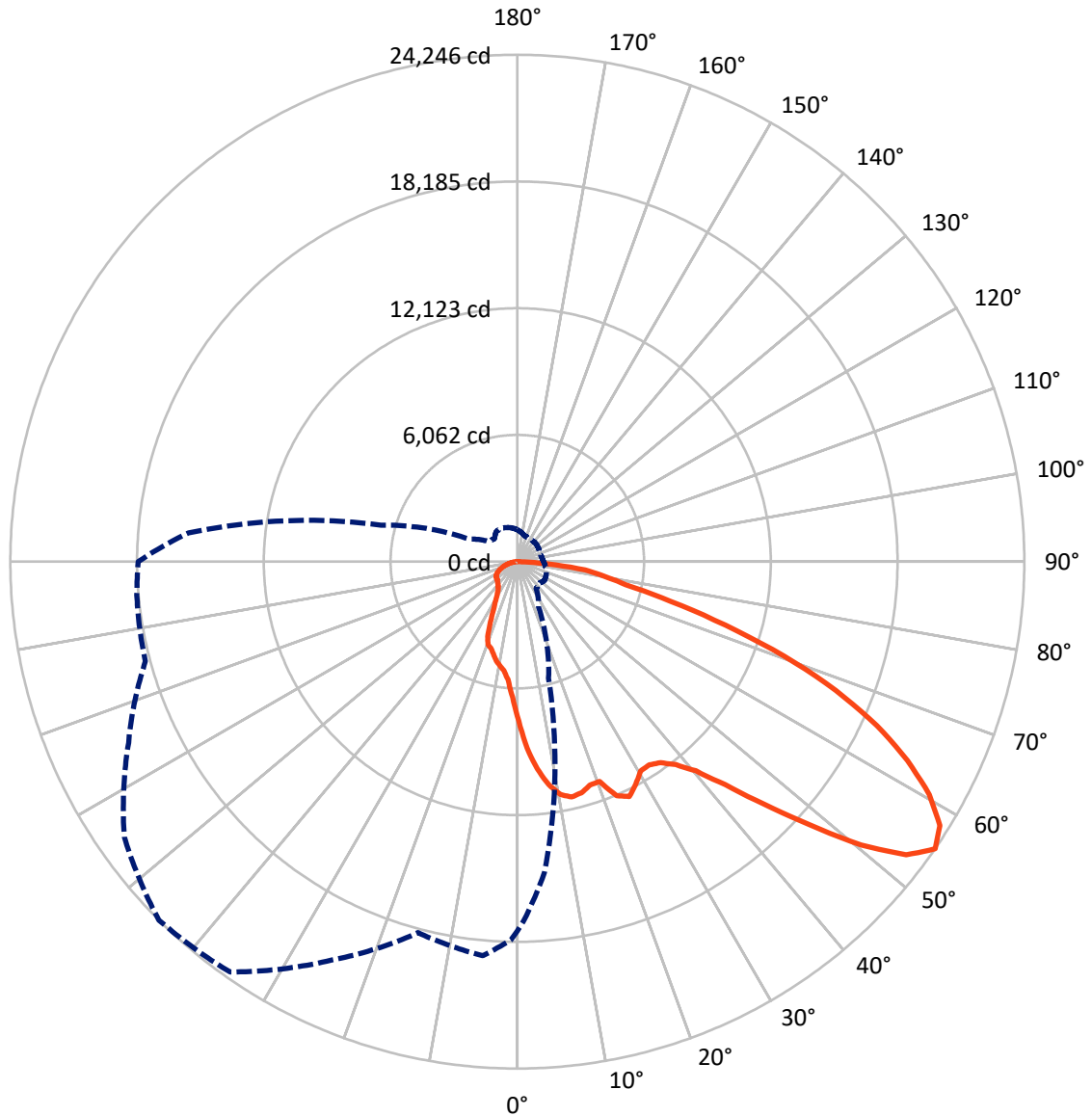
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical



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CATALOG NUMBER: GALN-SA5C-760-U-SLR

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6638.5 | 0.0 | 6638.5 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 23709.5 | 0.0 | 23709.5 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 30348.0 | 0.0 | 30348.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 645.5 | 2.1 |
| 10°-20° | 1712.5 | 5.6 |
| 20°-30° | 2958.4 | 9.7 |
| 30°-40° | 3438.2 | 11.3 |
| 40°-50° | 4796.9 | 15.8 |
| 50°-60° | 6508.9 | 21.4 |
| 60°-70° | 6192.5 | 20.4 |
| 70°-80° | 3345.3 | 11.0 |
| 80°-90° | 749.7 | 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° | 30348.0 | 100.0 |
| 0°-180° | 30348.0 | 100.0 |



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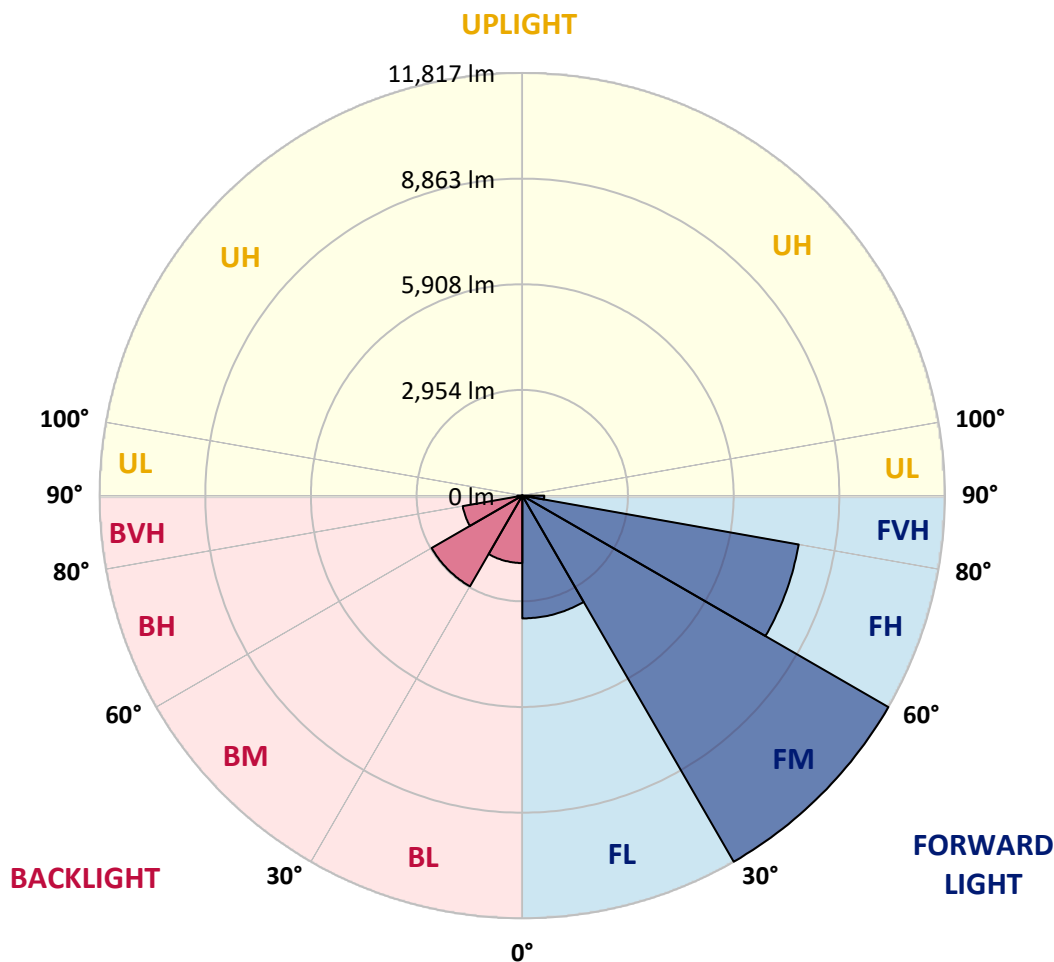
CATALOG NUMBER: GALN-SA5C-760-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 3432.4 | 11.3 | | | |
| FM | (30°-60°) | 11816.9 | 38.9 | | | |
| FH | (60°-80°) | 7847.5 | 25.9 | | | G4/12000 |
| FVH | (80°-90°) | 612.7 | 2.0 | | | G4/750 |
| BL | (0°-30°) | 1884.0 | 6.2 | B3/2500 | | |
| BM | (30°-60°) | 2927.1 | 9.6 | B3/5000 | | |
| BH | (60°-80°) | 1690.3 | 5.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 137.0 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short





REPORT NUMBER: P454497
 CATALOG NUMBER: GALN-SA5C-760-U-SLR

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 |
| 2.5° | 8461.1 | 8429.0 | 8338.9 | 8102.7 | 7864.4 | 7622.2 | 7436.0 | 7203.7 | 6961.5 | 6831.3 | 6665.1 |
| 5° | 8577.2 | 8541.2 | 8328.9 | 7796.4 | 7313.8 | 6807.3 | 6402.9 | 6048.5 | 5904.3 | 5692.1 | 5521.9 |
| 7.5° | 8304.9 | 8288.9 | 7970.5 | 7205.7 | 6545.0 | 5882.3 | 5423.8 | 5139.5 | 4881.2 | 4785.1 | 4805.1 |
| 10° | 8056.6 | 7992.6 | 7594.1 | 6595.1 | 5824.2 | 5285.7 | 4957.3 | 4679.0 | 4496.8 | 4448.8 | 4458.8 |
| 12.5° | 7850.4 | 7764.3 | 7293.8 | 6184.6 | 5509.9 | 5079.4 | 4661.0 | 4370.7 | 4204.5 | 4250.6 | 4406.7 |
| 15° | 7808.4 | 7692.2 | 7167.7 | 6044.5 | 5337.7 | 4783.1 | 4324.6 | 3990.3 | 3866.1 | 3966.3 | 4216.5 |
| 17.5° | 8080.7 | 7934.5 | 7383.9 | 6090.5 | 5173.5 | 4480.8 | 3918.2 | 3535.8 | 3431.7 | 3591.8 | 3918.2 |
| 20° | 8955.6 | 8739.4 | 8058.6 | 6356.8 | 5157.5 | 4330.6 | 3681.9 | 3297.5 | 3341.6 | 3645.9 | 3986.3 |
| 22.5° | 10573.3 | 10249.0 | 9239.9 | 6745.2 | 5241.6 | 4292.6 | 3633.9 | 3433.7 | 3675.9 | 3934.2 | 4158.5 |
| 25° | 10893.7 | 10639.4 | 9452.1 | 6833.3 | 5223.6 | 4266.6 | 3770.0 | 3870.1 | 4140.4 | 4268.6 | 4190.5 |
| 27.5° | 11073.9 | 10783.6 | 9438.1 | 6396.9 | 4671.0 | 3870.1 | 3603.9 | 3770.0 | 3838.1 | 3714.0 | 3501.8 |
| 30° | 11494.3 | 11192.0 | 9676.4 | 5938.4 | 3846.1 | 2871.1 | 2516.7 | 2448.6 | 2494.7 | 2518.7 | 2442.6 |
| 32.5° | 12072.9 | 11774.6 | 10124.9 | 5638.0 | 3325.6 | 2374.5 | 2026.2 | 1930.1 | 1908.0 | 1882.0 | 1852.0 |
| 35° | 12821.7 | 12363.3 | 10565.3 | 5445.8 | 3111.3 | 2196.4 | 1876.0 | 1801.9 | 1771.9 | 1735.9 | 1703.8 |
| 37.5° | 13582.6 | 13102.0 | 11121.9 | 5243.6 | 2969.2 | 2072.2 | 1775.9 | 1741.9 | 1689.8 | 1651.8 | 1605.7 |
| 40° | 14391.4 | 13852.8 | 11628.5 | 5067.4 | 2831.0 | 1992.1 | 1703.8 | 1699.8 | 1631.7 | 1587.7 | 1533.6 |
| 42.5° | 15092.2 | 14537.6 | 12080.9 | 4959.3 | 2724.9 | 1908.0 | 1659.8 | 1671.8 | 1601.7 | 1535.6 | 1465.6 |
| 45° | 15648.8 | 15104.2 | 12499.4 | 4959.3 | 2638.8 | 1824.0 | 1651.8 | 1643.8 | 1573.7 | 1491.6 | 1411.5 |
| 47.5° | 16137.3 | 15574.7 | 12907.8 | 5085.5 | 2584.8 | 1753.9 | 1607.7 | 1621.7 | 1549.7 | 1445.5 | 1367.5 |
| 50° | 16515.7 | 16019.2 | 13458.4 | 5281.7 | 2530.7 | 1697.8 | 1551.7 | 1627.7 | 1529.6 | 1421.5 | 1331.4 |
| 52.5° | 16998.2 | 16553.7 | 14121.1 | 5549.9 | 2484.7 | 1635.8 | 1501.6 | 1627.7 | 1527.6 | 1423.5 | 1325.4 |
| 55° | 17666.9 | 17198.4 | 14920.0 | 5772.2 | 2410.6 | 1577.7 | 1457.6 | 1581.7 | 1521.6 | 1413.5 | 1309.4 |
| 57.5° | 18135.4 | 17785.1 | 15484.6 | 5920.3 | 2304.5 | 1503.6 | 1417.5 | 1537.6 | 1495.6 | 1375.5 | 1261.4 |
| 58° | 18157.5 | 17815.1 | 15566.7 | 5954.4 | 2278.4 | 1489.6 | 1407.5 | 1517.6 | 1483.6 | 1359.5 | 1245.3 |
| 60° | 17905.2 | 17610.9 | 15582.7 | 5906.3 | 2130.3 | 1419.5 | 1355.5 | 1435.5 | 1419.5 | 1265.4 | 1159.2 |
| 62.5° | 16988.2 | 16673.9 | 14936.0 | 5515.9 | 1934.1 | 1333.4 | 1275.4 | 1325.4 | 1289.4 | 1133.2 | 1035.1 |
| 65° | 15684.8 | 15106.2 | 13606.6 | 4903.3 | 1793.9 | 1241.3 | 1167.3 | 1171.3 | 1133.2 | 1021.1 | 935.0 |
| 67.5° | 13948.9 | 13302.3 | 11520.3 | 4132.4 | 1687.8 | 1139.2 | 1039.1 | 1029.1 | 983.1 | 911.0 | 840.9 |
| 70° | 11812.7 | 11370.2 | 9362.0 | 3361.6 | 1569.7 | 1027.1 | 895.0 | 889.0 | 860.9 | 806.9 | 744.8 |
| 72.5° | 9574.3 | 9011.7 | 7560.1 | 2690.9 | 1425.5 | 919.0 | 760.8 | 772.8 | 736.8 | 698.7 | 642.7 |
| 75° | 7065.6 | 6697.2 | 5844.3 | 2158.3 | 1231.3 | 800.9 | 634.7 | 638.7 | 622.7 | 582.6 | 538.6 |
| 77.5° | 4653.0 | 4542.9 | 4180.5 | 1417.5 | 947.0 | 636.7 | 518.6 | 522.6 | 510.5 | 474.5 | 428.5 |
| 80° | 3131.4 | 3057.3 | 2833.0 | 913.0 | 632.7 | 460.5 | 400.4 | 404.4 | 402.4 | 364.4 | 302.3 |
| 82.5° | 1930.1 | 1898.0 | 1826.0 | 616.7 | 438.5 | 330.4 | 264.3 | 276.3 | 298.3 | 256.3 | 206.2 |
| 85° | 911.0 | 913.0 | 1103.2 | 336.4 | 258.3 | 212.2 | 144.2 | 154.2 | 154.2 | 154.2 | 116.1 |
| 87.5° | 118.1 | 124.1 | 152.2 | 142.2 | 94.1 | 80.1 | 52.1 | 44.0 | 38.0 | 50.1 | 36.0 |
| 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: GALN-SA5C-760-U-SLR

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 |
| 2.5° | 6607.1 | 6567.0 | 6480.9 | 6460.9 | 6448.9 | 6482.9 | 6392.9 | 6416.9 | 6376.8 | 6489.0 | 6470.9 |
| 5° | 5531.9 | 5535.9 | 5606.0 | 5652.1 | 5668.1 | 5652.1 | 5592.0 | 5487.9 | 5407.8 | 5375.8 | 5383.8 |
| 7.5° | 4767.1 | 4837.2 | 4957.3 | 5091.5 | 5213.6 | 5249.6 | 5215.6 | 5017.4 | 4801.1 | 4665.0 | 4621.0 |
| 10° | 4512.8 | 4606.9 | 4745.1 | 4851.2 | 4959.3 | 5045.4 | 5063.4 | 4909.3 | 4653.0 | 4330.6 | 4204.5 |
| 12.5° | 4526.9 | 4655.0 | 4787.1 | 4821.2 | 4811.2 | 4845.2 | 4829.2 | 4803.1 | 4635.0 | 4224.5 | 4014.3 |
| 15° | 4394.7 | 4546.9 | 4639.0 | 4621.0 | 4588.9 | 4558.9 | 4516.8 | 4450.8 | 4390.7 | 4102.4 | 3870.1 |
| 17.5° | 4090.4 | 4246.6 | 4322.6 | 4328.6 | 4328.6 | 4320.6 | 4218.5 | 4194.5 | 4186.5 | 4046.3 | 3904.2 |
| 20° | 4146.4 | 4232.5 | 4198.5 | 4142.4 | 4158.5 | 4212.5 | 4152.5 | 4140.4 | 4186.5 | 4248.6 | 4222.5 |
| 22.5° | 4178.5 | 4148.4 | 3892.2 | 3643.9 | 3587.8 | 3756.0 | 3790.1 | 3924.2 | 4110.4 | 4334.6 | 4480.8 |
| 25° | 3980.3 | 3738.0 | 3279.5 | 2999.2 | 2841.0 | 2997.2 | 3201.4 | 3449.7 | 3728.0 | 4016.3 | 4186.5 |
| 27.5° | 3327.6 | 3143.4 | 2815.0 | 2562.7 | 2424.6 | 2448.6 | 2622.8 | 2849.1 | 3107.3 | 3301.5 | 3425.7 |
| 30° | 2506.7 | 2424.6 | 2254.4 | 2168.3 | 2084.2 | 2064.2 | 2138.3 | 2224.4 | 2338.5 | 2362.5 | 2394.6 |
| 32.5° | 1846.0 | 1834.0 | 1844.0 | 1815.9 | 1799.9 | 1797.9 | 1775.9 | 1795.9 | 1807.9 | 1822.0 | 1793.9 |
| 35° | 1669.8 | 1653.8 | 1625.7 | 1617.7 | 1607.7 | 1611.7 | 1601.7 | 1591.7 | 1599.7 | 1611.7 | 1619.7 |
| 37.5° | 1579.7 | 1555.7 | 1515.6 | 1501.6 | 1501.6 | 1507.6 | 1491.6 | 1487.6 | 1501.6 | 1539.7 | 1559.7 |
| 40° | 1509.6 | 1481.6 | 1435.5 | 1417.5 | 1429.5 | 1445.5 | 1423.5 | 1415.5 | 1449.6 | 1489.6 | 1521.6 |
| 42.5° | 1443.5 | 1421.5 | 1377.5 | 1357.5 | 1367.5 | 1397.5 | 1365.5 | 1359.5 | 1403.5 | 1447.6 | 1485.6 |
| 45° | 1387.5 | 1365.5 | 1325.4 | 1315.4 | 1319.4 | 1347.4 | 1325.4 | 1325.4 | 1367.5 | 1415.5 | 1449.6 |
| 47.5° | 1343.4 | 1315.4 | 1289.4 | 1281.4 | 1285.4 | 1301.4 | 1297.4 | 1297.4 | 1337.4 | 1387.5 | 1421.5 |
| 50° | 1299.4 | 1275.4 | 1241.3 | 1245.3 | 1255.3 | 1277.4 | 1275.4 | 1281.4 | 1321.4 | 1383.5 | 1419.5 |
| 52.5° | 1279.4 | 1243.3 | 1205.3 | 1209.3 | 1239.3 | 1265.4 | 1257.3 | 1263.4 | 1309.4 | 1425.5 | 1477.6 |
| 55° | 1257.3 | 1209.3 | 1165.2 | 1171.3 | 1205.3 | 1243.3 | 1233.3 | 1241.3 | 1295.4 | 1453.6 | 1525.6 |
| 57.5° | 1215.3 | 1159.2 | 1111.2 | 1115.2 | 1165.2 | 1205.3 | 1189.3 | 1199.3 | 1263.4 | 1423.5 | 1499.6 |
| 58° | 1197.3 | 1149.2 | 1103.2 | 1105.2 | 1153.2 | 1197.3 | 1179.3 | 1187.3 | 1253.3 | 1415.5 | 1487.6 |
| 60° | 1121.2 | 1093.2 | 1053.1 | 1055.1 | 1101.2 | 1139.2 | 1129.2 | 1137.2 | 1201.3 | 1357.5 | 1411.5 |
| 62.5° | 1017.1 | 1001.1 | 991.1 | 991.1 | 1019.1 | 1055.1 | 1065.1 | 1075.2 | 1133.2 | 1227.3 | 1275.4 |
| 65° | 905.0 | 905.0 | 907.0 | 907.0 | 925.0 | 971.0 | 977.0 | 1003.1 | 1057.1 | 1103.2 | 1139.2 |
| 67.5° | 828.9 | 824.9 | 828.9 | 818.9 | 826.9 | 854.9 | 884.9 | 909.0 | 965.0 | 997.1 | 1009.1 |
| 70° | 730.8 | 728.8 | 730.8 | 716.8 | 726.8 | 750.8 | 770.8 | 810.9 | 868.9 | 893.0 | 899.0 |
| 72.5° | 634.7 | 634.7 | 638.7 | 628.7 | 628.7 | 654.7 | 668.7 | 712.8 | 766.8 | 780.8 | 782.8 |
| 75° | 534.6 | 540.6 | 540.6 | 526.6 | 530.6 | 546.6 | 564.6 | 600.6 | 650.7 | 660.7 | 660.7 |
| 77.5° | 424.5 | 446.5 | 446.5 | 432.5 | 438.5 | 440.5 | 464.5 | 482.5 | 520.6 | 524.6 | 508.5 |
| 80° | 308.3 | 330.4 | 348.4 | 336.4 | 346.4 | 334.4 | 348.4 | 360.4 | 398.4 | 380.4 | 354.4 |
| 82.5° | 220.2 | 236.3 | 250.3 | 252.3 | 242.3 | 220.2 | 238.3 | 240.3 | 258.3 | 234.3 | 220.2 |
| 85° | 122.1 | 136.1 | 154.2 | 146.2 | 130.1 | 116.1 | 122.1 | 126.1 | 124.1 | 118.1 | 110.1 |
| 87.5° | 32.0 | 34.0 | 38.0 | 28.0 | 26.0 | 22.0 | 30.0 | 30.0 | 34.0 | 36.0 | 34.0 |
| 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: GALN-SA5C-760-U-SLR

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 |
| 2.5° | 6485.0 | 6573.0 | 6763.2 | 6907.4 | 7083.6 | 7297.8 | 7550.1 | 7804.4 | 8078.7 | 8164.8 | 8284.9 |
| 5° | 5365.8 | 5586.0 | 5678.1 | 5940.4 | 6200.6 | 6591.1 | 7007.5 | 7490.0 | 8018.6 | 8272.9 | 8517.1 |
| 7.5° | 4584.9 | 4703.0 | 4799.1 | 4991.3 | 5303.7 | 5778.2 | 6300.8 | 6903.4 | 7652.2 | 8022.6 | 8381.0 |
| 10° | 4164.5 | 4176.5 | 4294.6 | 4532.9 | 4805.1 | 5223.6 | 5718.1 | 6392.9 | 7227.7 | 7678.2 | 8098.7 |
| 12.5° | 3886.2 | 3834.1 | 3962.2 | 4210.5 | 4518.8 | 4905.3 | 5359.7 | 6002.4 | 6921.4 | 7383.9 | 7892.5 |
| 15° | 3641.9 | 3559.8 | 3655.9 | 3910.2 | 4214.5 | 4669.0 | 5157.5 | 5838.3 | 6801.3 | 7339.9 | 7904.5 |
| 17.5° | 3647.9 | 3421.7 | 3455.7 | 3669.9 | 3972.3 | 4434.8 | 5027.4 | 5832.3 | 6983.5 | 7604.1 | 8272.9 |
| 20° | 4098.4 | 3736.0 | 3581.8 | 3621.9 | 3914.2 | 4418.7 | 5087.5 | 6112.6 | 7582.1 | 8487.1 | 9201.9 |
| 22.5° | 4540.9 | 4322.6 | 4074.4 | 3992.3 | 4152.5 | 4681.0 | 5469.9 | 6775.3 | 8883.5 | 10247.0 | 11538.4 |
| 25° | 4386.7 | 4572.9 | 4510.8 | 4394.7 | 4430.7 | 4869.2 | 5730.1 | 7319.8 | 9894.6 | 11430.3 | 12643.6 |
| 27.5° | 3509.8 | 3848.1 | 3916.2 | 3914.2 | 3928.2 | 4288.6 | 5153.5 | 6953.5 | 10020.7 | 11656.5 | 12815.7 |
| 30° | 2466.6 | 2496.7 | 2532.7 | 2602.8 | 2666.9 | 2989.2 | 4032.3 | 6104.5 | 9964.7 | 11758.6 | 12919.8 |
| 32.5° | 1779.9 | 1820.0 | 1870.0 | 1966.1 | 2118.3 | 2528.7 | 3527.8 | 5834.3 | 10261.0 | 12181.1 | 13224.2 |
| 35° | 1627.7 | 1673.8 | 1721.8 | 1832.0 | 1976.1 | 2356.5 | 3327.6 | 5722.1 | 10747.5 | 12865.8 | 13770.8 |
| 37.5° | 1579.7 | 1631.7 | 1673.8 | 1753.9 | 1870.0 | 2232.4 | 3145.4 | 5646.1 | 11246.1 | 13590.6 | 14503.5 |
| 40° | 1545.7 | 1605.7 | 1639.8 | 1703.8 | 1783.9 | 2118.3 | 2983.2 | 5586.0 | 11728.6 | 14253.3 | 15092.2 |
| 42.5° | 1515.6 | 1577.7 | 1621.7 | 1667.8 | 1733.9 | 2016.2 | 2839.0 | 5525.9 | 12147.0 | 14896.0 | 15678.8 |
| 45° | 1479.6 | 1557.7 | 1613.7 | 1649.8 | 1707.8 | 1930.1 | 2728.9 | 5477.9 | 12623.5 | 15466.6 | 16271.4 |
| 47.5° | 1449.6 | 1535.6 | 1605.7 | 1647.8 | 1669.8 | 1870.0 | 2640.8 | 5543.9 | 13196.1 | 16063.2 | 16822.0 |
| 50° | 1451.6 | 1533.6 | 1621.7 | 1687.8 | 1629.7 | 1820.0 | 2586.8 | 5806.2 | 13940.9 | 16772.0 | 17256.5 |
| 52.5° | 1515.6 | 1615.7 | 1685.8 | 1701.8 | 1573.7 | 1759.9 | 2558.7 | 6264.7 | 14821.9 | 17398.6 | 17695.0 |
| 55° | 1587.7 | 1691.8 | 1767.9 | 1757.9 | 1543.7 | 1683.8 | 2552.7 | 6753.2 | 15786.9 | 18129.4 | 18265.6 |
| 57.5° | 1561.7 | 1713.8 | 1830.0 | 1777.9 | 1545.7 | 1609.7 | 2526.7 | 7147.7 | 16593.8 | 18676.0 | 18830.2 |
| 58° | 1553.7 | 1705.8 | 1838.0 | 1773.9 | 1539.7 | 1587.7 | 2520.7 | 7181.7 | 16705.9 | 18714.1 | 18910.3 |
| 60° | 1475.6 | 1635.8 | 1832.0 | 1743.9 | 1505.6 | 1527.6 | 2454.6 | 7291.8 | 16675.9 | 18517.8 | 18958.3 |
| 62.5° | 1333.4 | 1465.6 | 1693.8 | 1597.7 | 1401.5 | 1447.6 | 2306.5 | 7155.7 | 15863.0 | 17572.8 | 18255.6 |
| 65° | 1173.3 | 1271.4 | 1423.5 | 1405.5 | 1253.3 | 1365.5 | 2104.3 | 6617.1 | 14235.3 | 16039.2 | 16758.0 |
| 67.5° | 1053.1 | 1133.2 | 1229.3 | 1203.3 | 1127.2 | 1255.3 | 1886.0 | 5706.1 | 12409.3 | 14197.2 | 15102.2 |
| 70° | 931.0 | 993.1 | 1041.1 | 1023.1 | 999.1 | 1147.2 | 1691.8 | 4631.0 | 10659.4 | 12447.3 | 13324.3 |
| 72.5° | 806.9 | 864.9 | 905.0 | 878.9 | 864.9 | 1033.1 | 1533.6 | 3593.9 | 8419.0 | 10269.0 | 11396.2 |
| 75° | 674.7 | 732.8 | 760.8 | 730.8 | 722.8 | 911.0 | 1299.4 | 2684.9 | 6316.8 | 7916.5 | 8889.5 |
| 77.5° | 522.6 | 584.6 | 620.7 | 610.7 | 614.7 | 748.8 | 1049.1 | 1838.0 | 4516.8 | 5395.8 | 6420.9 |
| 80° | 366.4 | 434.5 | 458.5 | 448.5 | 476.5 | 570.6 | 740.8 | 1167.3 | 3115.3 | 3501.8 | 4224.5 |
| 82.5° | 226.2 | 290.3 | 294.3 | 304.3 | 324.3 | 422.5 | 558.6 | 710.8 | 1956.1 | 2022.2 | 2546.7 |
| 85° | 114.1 | 138.1 | 148.2 | 164.2 | 182.2 | 258.3 | 318.3 | 440.5 | 1259.3 | 953.0 | 1423.5 |
| 87.5° | 38.0 | 40.0 | 48.1 | 60.1 | 74.1 | 106.1 | 136.1 | 180.2 | 312.3 | 172.2 | 440.5 |
| 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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| 0° | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 | 7616.2 |
| 2.5° | 8527.1 | 8697.3 | 8821.5 | 8935.6 | 8825.5 | 8815.4 | 8707.3 | 8533.1 | 8461.1 | 8461.1 |
| 5° | 9029.7 | 9428.1 | 9750.4 | 9956.7 | 9868.6 | 9656.3 | 9306.0 | 8859.5 | 8619.2 | 8577.2 |
| 7.5° | 9167.8 | 9954.7 | 10553.3 | 10765.5 | 10617.4 | 10148.9 | 9478.2 | 8725.4 | 8381.0 | 8304.9 |
| 10° | 9083.7 | 10106.8 | 10985.8 | 11322.1 | 11115.9 | 10407.2 | 9492.2 | 8569.2 | 8144.7 | 8056.6 |
| 12.5° | 8995.6 | 10126.9 | 11065.9 | 11552.4 | 11418.2 | 10615.4 | 9594.3 | 8467.1 | 7976.5 | 7850.4 |
| 15° | 9059.7 | 10134.9 | 10967.8 | 11470.3 | 11556.4 | 10865.6 | 9762.5 | 8541.2 | 7942.5 | 7808.4 |
| 17.5° | 9464.1 | 10287.0 | 10827.6 | 11234.0 | 11536.4 | 11206.0 | 10241.0 | 8895.5 | 8246.8 | 8080.7 |
| 20° | 10309.0 | 10651.4 | 10907.7 | 11222.0 | 11708.5 | 11900.8 | 11220.0 | 9868.6 | 9101.8 | 8955.6 |
| 22.5° | 12755.7 | 12693.6 | 12169.0 | 12163.0 | 12867.8 | 13638.6 | 13592.6 | 11846.7 | 10693.5 | 10573.3 |
| 25° | 13672.7 | 13384.3 | 12625.5 | 12441.3 | 12751.7 | 13940.9 | 13768.8 | 12251.1 | 11186.0 | 10893.7 |
| 27.5° | 13314.3 | 12599.5 | 12101.0 | 12058.9 | 11956.8 | 13080.0 | 13494.5 | 12415.3 | 11358.2 | 11073.9 |
| 30° | 13292.2 | 12241.1 | 11528.4 | 11612.4 | 11710.6 | 12783.7 | 13646.6 | 12929.9 | 11798.6 | 11494.3 |
| 32.5° | 13346.3 | 12291.2 | 11570.4 | 11586.4 | 11878.7 | 12827.7 | 13814.8 | 13490.5 | 12377.3 | 12072.9 |
| 35° | 13564.5 | 12575.5 | 11838.7 | 11800.6 | 12257.1 | 13116.1 | 14101.1 | 14371.4 | 13168.1 | 12821.7 |
| 37.5° | 13916.9 | 13142.1 | 12329.2 | 12319.2 | 12981.9 | 13636.6 | 14457.5 | 15260.4 | 13955.0 | 13582.6 |
| 40° | 14435.5 | 13804.8 | 13202.1 | 13148.1 | 13967.0 | 14483.5 | 14920.0 | 16207.4 | 14869.9 | 14391.4 |
| 42.5° | 15062.1 | 14599.6 | 14353.4 | 14567.6 | 15354.5 | 15434.5 | 15640.8 | 17082.3 | 15648.8 | 15092.2 |
| 45° | 15642.8 | 15620.7 | 15963.1 | 16531.7 | 16990.2 | 16509.7 | 16393.6 | 17668.9 | 16253.4 | 15648.8 |
| 47.5° | 16333.5 | 16930.1 | 17963.3 | 18796.1 | 19276.7 | 17761.0 | 17036.3 | 18051.3 | 16693.9 | 16137.3 |
| 50° | 17034.3 | 18497.8 | 20147.6 | 21308.8 | 21410.9 | 19120.5 | 17478.7 | 18411.7 | 17094.3 | 16515.7 |
| 52.5° | 17771.0 | 19749.2 | 21945.5 | 23295.0 | 23096.8 | 20303.8 | 17907.2 | 18656.0 | 17506.8 | 16998.2 |
| 55° | 18411.7 | 20516.0 | 22950.6 | 24246.0 | 23955.7 | 21024.5 | 18369.7 | 18920.3 | 18095.4 | 17666.9 |
| 57.5° | 18770.1 | 20580.1 | 22700.3 | 23831.5 | 23517.2 | 20884.4 | 18581.9 | 19116.5 | 18471.8 | 18135.4 |
| 58° | 18822.2 | 20494.0 | 22478.1 | 23591.3 | 23270.9 | 20766.3 | 18579.9 | 19108.5 | 18495.8 | 18157.5 |
| 60° | 18776.1 | 19935.4 | 21651.2 | 22642.3 | 22305.9 | 20025.5 | 18503.8 | 18958.3 | 18191.5 | 17905.2 |
| 62.5° | 18349.7 | 18966.3 | 20223.7 | 20944.4 | 20848.3 | 18868.2 | 18191.5 | 18391.7 | 17264.5 | 16988.2 |
| 65° | 17789.1 | 17644.9 | 18395.7 | 18906.3 | 18978.3 | 18001.3 | 17881.2 | 17166.4 | 16075.2 | 15684.8 |
| 67.5° | 17108.3 | 16147.3 | 16145.3 | 16435.6 | 16555.7 | 16667.9 | 17234.5 | 15835.0 | 14361.4 | 13948.9 |
| 70° | 15953.1 | 13838.8 | 13202.1 | 13544.5 | 13444.4 | 14391.4 | 16079.2 | 13965.0 | 12295.2 | 11812.7 |
| 72.5° | 13834.8 | 10981.8 | 9962.7 | 10403.1 | 10150.9 | 11286.1 | 14069.1 | 11492.3 | 10166.9 | 9574.3 |
| 75° | 11214.0 | 8214.8 | 7163.7 | 7568.1 | 7411.9 | 8561.2 | 11706.5 | 8346.9 | 7291.8 | 7065.6 |
| 77.5° | 8707.3 | 5952.4 | 5341.7 | 5285.7 | 5401.8 | 6370.8 | 8587.2 | 5636.0 | 4807.2 | 4653.0 |
| 80° | 5594.0 | 4260.6 | 4296.6 | 4224.5 | 4284.6 | 4016.3 | 5213.6 | 3595.9 | 3255.5 | 3131.4 |
| 82.5° | 3681.9 | 2969.2 | 3539.8 | 3267.5 | 3103.3 | 2700.9 | 3419.7 | 2354.5 | 1998.1 | 1930.1 |
| 85° | 2508.7 | 2186.3 | 1990.1 | 1521.6 | 1791.9 | 2080.2 | 2564.7 | 1267.4 | 1005.1 | 911.0 |
| 87.5° | 1133.2 | 760.8 | 558.6 | 344.4 | 544.6 | 628.7 | 1245.3 | 148.2 | 114.1 | 118.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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