

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: P451249

Luminaire Tested: **GALN-SA2A-760-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451249
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-SA2A-760-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 615mA 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: 7927 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

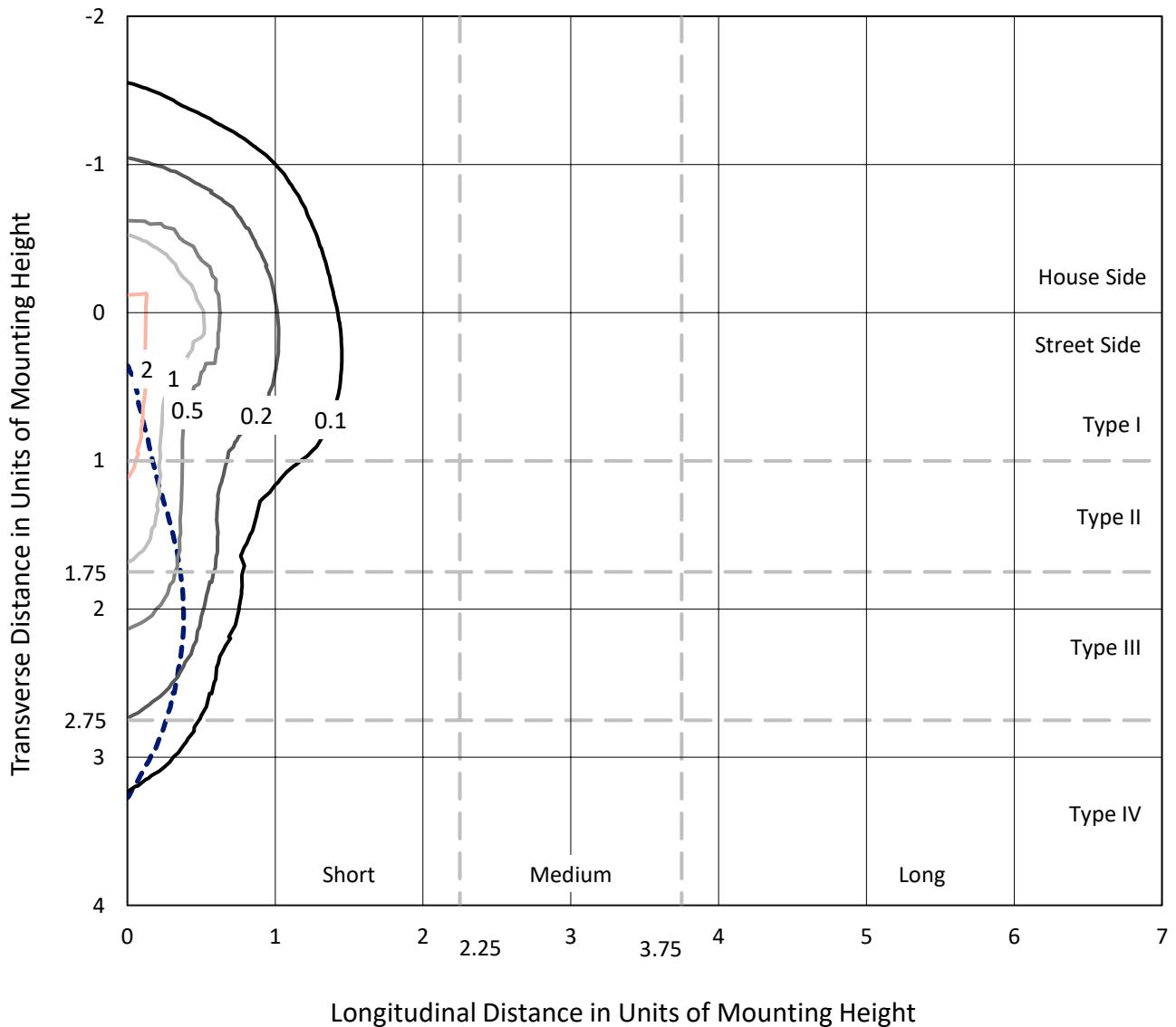
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

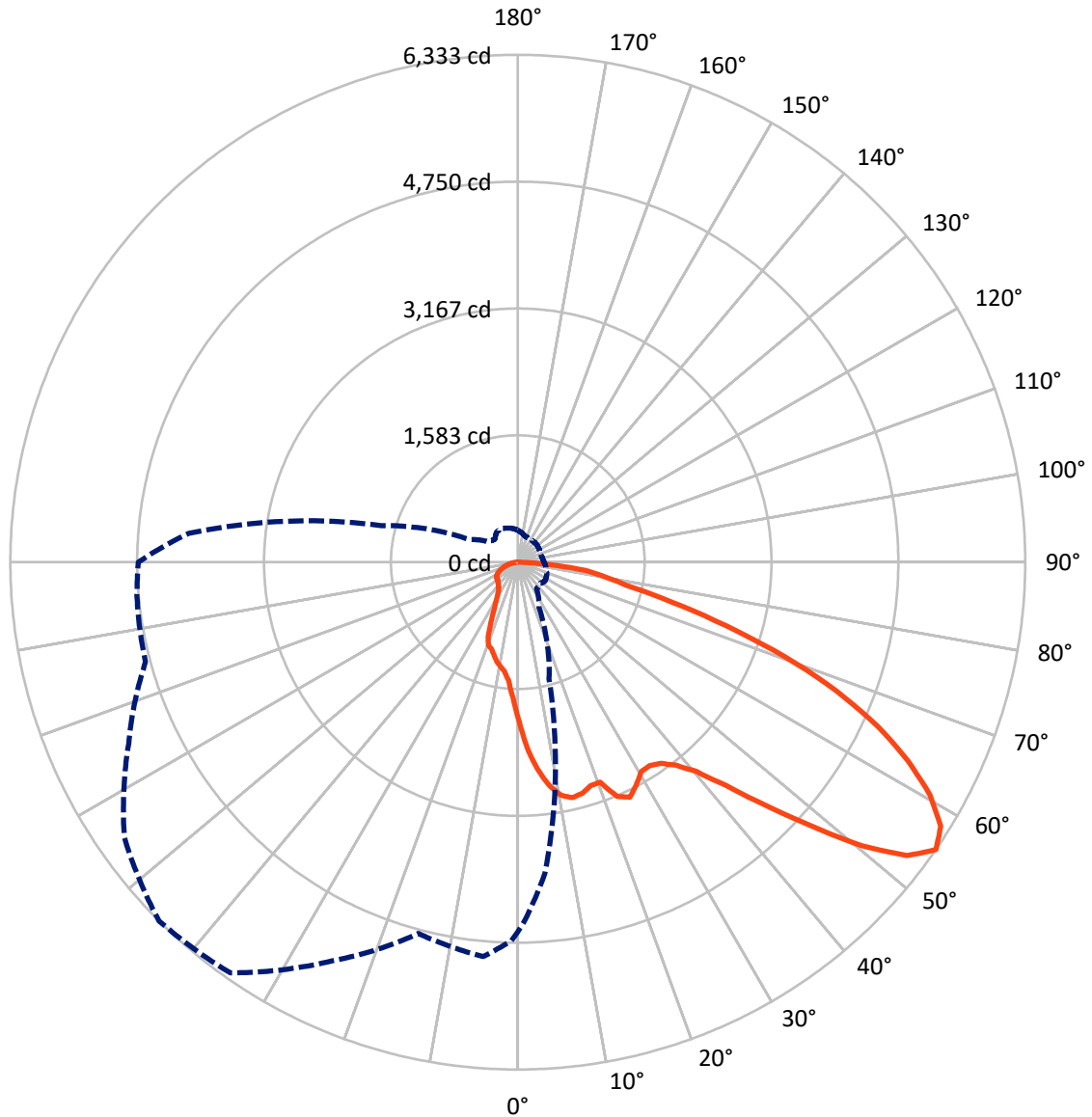
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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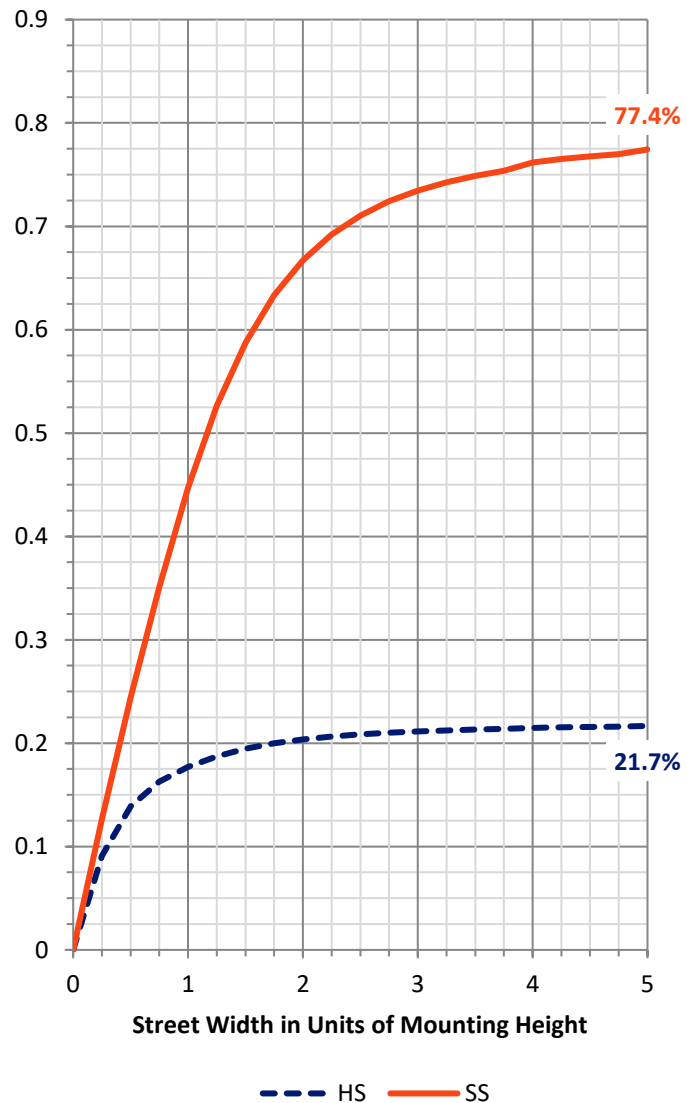
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1734.0 | 0.0 | 1734.0 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 6193.0 | 0.0 | 6193.0 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 7927.0 | 0.0 | 7927.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 168.6 | 2.1 |
| 10°-20° | 447.3 | 5.6 |
| 20°-30° | 772.8 | 9.7 |
| 30°-40° | 898.1 | 11.3 |
| 40°-50° | 1253.0 | 15.8 |
| 50°-60° | 1700.2 | 21.4 |
| 60°-70° | 1617.5 | 20.4 |
| 70°-80° | 873.8 | 11.0 |
| 80°-90° | 195.8 | 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° | 7927.0 | 100.0 |
| 0°-180° | 7927.0 | 100.0 |



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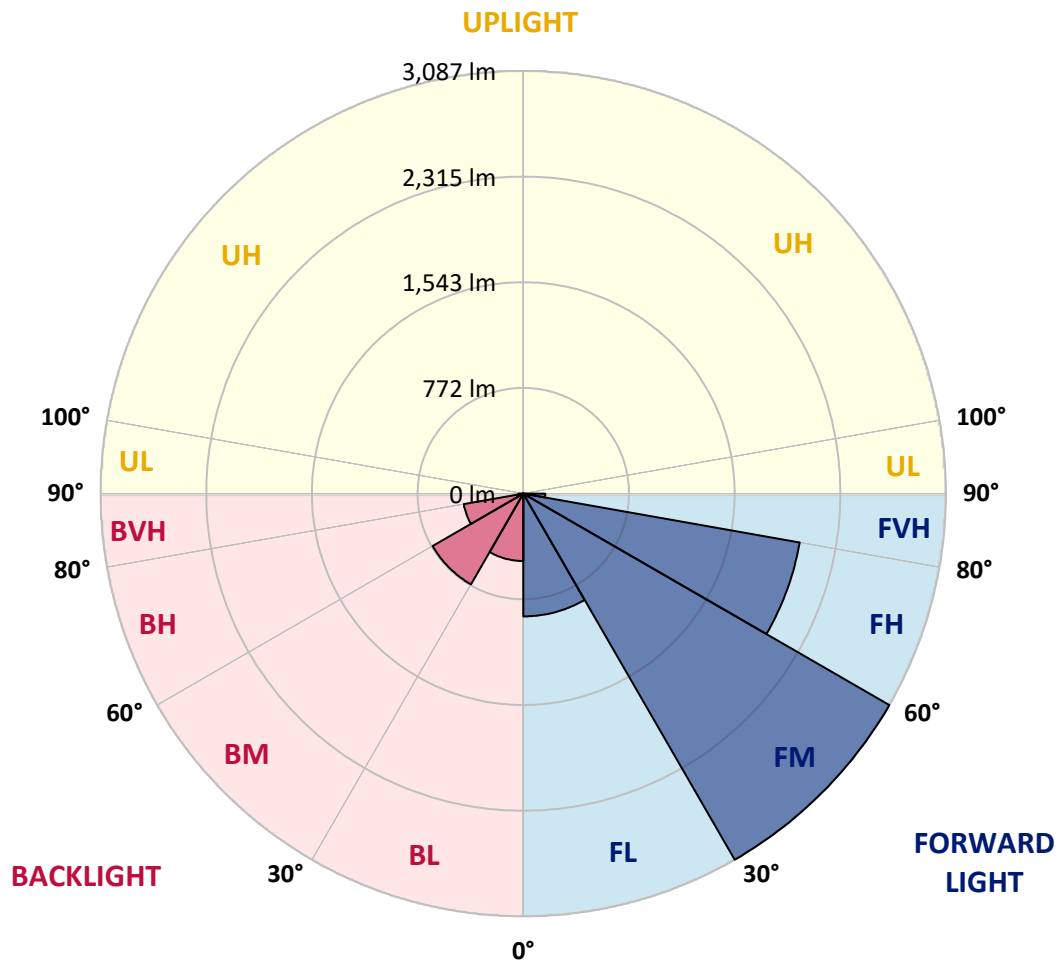
CATALOG NUMBER: GALN-SA2A-760-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 896.6 | 11.3 | | | |
| FM | (30°-60°) | 3086.6 | 38.9 | | | |
| FH | (60°-80°) | 2049.8 | 25.9 | | | G2/5000 |
| FVH | (80°-90°) | 160.0 | 2.0 | | | G2/225 |
| BL | (0°-30°) | 492.1 | 6.2 | B1/500 | | |
| BM | (30°-60°) | 764.6 | 9.6 | B1/1000 | | |
| BH | (60°-80°) | 441.5 | 5.6 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 35.8 | 0.5 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 |
| 2.5° | 2210.1 | 2201.7 | 2178.2 | 2116.4 | 2054.2 | 1990.9 | 1942.3 | 1881.6 | 1818.4 | 1784.4 | 1741.0 |
| 5° | 2240.4 | 2231.0 | 2175.5 | 2036.4 | 1910.4 | 1778.1 | 1672.4 | 1579.9 | 1542.2 | 1486.8 | 1442.3 |
| 7.5° | 2169.3 | 2165.1 | 2081.9 | 1882.2 | 1709.6 | 1536.5 | 1416.7 | 1342.5 | 1275.0 | 1249.9 | 1255.1 |
| 10° | 2104.4 | 2087.7 | 1983.6 | 1722.7 | 1521.3 | 1380.6 | 1294.9 | 1222.2 | 1174.6 | 1162.0 | 1164.6 |
| 12.5° | 2050.6 | 2028.1 | 1905.2 | 1615.4 | 1439.2 | 1326.8 | 1217.5 | 1141.6 | 1098.2 | 1110.3 | 1151.1 |
| 15° | 2039.6 | 2009.2 | 1872.2 | 1578.8 | 1394.2 | 1249.4 | 1129.6 | 1042.3 | 1009.8 | 1036.0 | 1101.4 |
| 17.5° | 2110.7 | 2072.5 | 1928.7 | 1590.9 | 1351.3 | 1170.4 | 1023.4 | 923.6 | 896.4 | 938.2 | 1023.4 |
| 20° | 2339.2 | 2282.8 | 2104.9 | 1660.4 | 1347.2 | 1131.2 | 961.7 | 861.3 | 872.8 | 952.3 | 1041.2 |
| 22.5° | 2761.8 | 2677.1 | 2413.5 | 1761.9 | 1369.1 | 1121.2 | 949.2 | 896.9 | 960.2 | 1027.6 | 1086.2 |
| 25° | 2845.5 | 2779.0 | 2468.9 | 1784.9 | 1364.4 | 1114.4 | 984.7 | 1010.9 | 1081.5 | 1115.0 | 1094.6 |
| 27.5° | 2892.5 | 2816.7 | 2465.3 | 1670.9 | 1220.1 | 1010.9 | 941.3 | 984.7 | 1002.5 | 970.1 | 914.7 |
| 30° | 3002.4 | 2923.4 | 2527.5 | 1551.1 | 1004.6 | 749.9 | 657.4 | 639.6 | 651.6 | 657.9 | 638.0 |
| 32.5° | 3153.5 | 3075.6 | 2644.6 | 1472.7 | 868.6 | 620.2 | 529.2 | 504.1 | 498.4 | 491.6 | 483.7 |
| 35° | 3349.1 | 3229.3 | 2759.7 | 1422.5 | 812.7 | 573.7 | 490.0 | 470.7 | 462.8 | 453.4 | 445.0 |
| 37.5° | 3547.8 | 3422.3 | 2905.1 | 1369.7 | 775.6 | 541.3 | 463.9 | 455.0 | 441.4 | 431.4 | 419.4 |
| 40° | 3759.1 | 3618.4 | 3037.4 | 1323.6 | 739.5 | 520.4 | 445.0 | 444.0 | 426.2 | 414.7 | 400.6 |
| 42.5° | 3942.1 | 3797.3 | 3155.6 | 1295.4 | 711.8 | 498.4 | 433.5 | 436.7 | 418.4 | 401.1 | 382.8 |
| 45° | 4087.5 | 3945.3 | 3264.9 | 1295.4 | 689.3 | 476.4 | 431.4 | 429.4 | 411.1 | 389.6 | 368.7 |
| 47.5° | 4215.1 | 4068.2 | 3371.6 | 1328.3 | 675.2 | 458.1 | 419.9 | 423.6 | 404.8 | 377.6 | 357.2 |
| 50° | 4314.0 | 4184.3 | 3515.4 | 1379.6 | 661.0 | 443.5 | 405.3 | 425.2 | 399.5 | 371.3 | 347.8 |
| 52.5° | 4440.0 | 4323.9 | 3688.5 | 1449.7 | 649.0 | 427.3 | 392.2 | 425.2 | 399.0 | 371.8 | 346.2 |
| 55° | 4614.7 | 4492.3 | 3897.2 | 1507.7 | 629.7 | 412.1 | 380.7 | 413.1 | 397.5 | 369.2 | 342.0 |
| 57.5° | 4737.0 | 4645.5 | 4044.6 | 1546.4 | 601.9 | 392.7 | 370.3 | 401.6 | 390.7 | 359.3 | 329.5 |
| 58° | 4742.8 | 4653.4 | 4066.1 | 1555.3 | 595.1 | 389.1 | 367.6 | 396.4 | 387.5 | 355.1 | 325.3 |
| 60° | 4676.9 | 4600.0 | 4070.3 | 1542.8 | 556.4 | 370.8 | 354.0 | 375.0 | 370.8 | 330.5 | 302.8 |
| 62.5° | 4437.4 | 4355.3 | 3901.3 | 1440.8 | 505.2 | 348.3 | 333.1 | 346.2 | 336.8 | 296.0 | 270.4 |
| 65° | 4096.9 | 3945.8 | 3554.1 | 1280.7 | 468.6 | 324.2 | 304.9 | 305.9 | 296.0 | 266.7 | 244.2 |
| 67.5° | 3643.5 | 3474.6 | 3009.2 | 1079.4 | 440.9 | 297.6 | 271.4 | 268.8 | 256.8 | 238.0 | 219.6 |
| 70° | 3085.5 | 2969.9 | 2445.4 | 878.1 | 410.0 | 268.3 | 233.8 | 232.2 | 224.9 | 210.8 | 194.5 |
| 72.5° | 2500.8 | 2353.9 | 1974.7 | 702.9 | 372.4 | 240.0 | 198.7 | 201.9 | 192.5 | 182.5 | 167.9 |
| 75° | 1845.6 | 1749.3 | 1526.5 | 563.8 | 321.6 | 209.2 | 165.8 | 166.8 | 162.6 | 152.2 | 140.7 |
| 77.5° | 1215.4 | 1186.6 | 1092.0 | 370.3 | 247.4 | 166.3 | 135.4 | 136.5 | 133.4 | 123.9 | 111.9 |
| 80° | 817.9 | 798.6 | 740.0 | 238.5 | 165.3 | 120.3 | 104.6 | 105.6 | 105.1 | 95.2 | 79.0 |
| 82.5° | 504.1 | 495.8 | 476.9 | 161.1 | 114.5 | 86.3 | 69.0 | 72.2 | 77.9 | 66.9 | 53.9 |
| 85° | 238.0 | 238.5 | 288.2 | 87.9 | 67.5 | 55.4 | 37.7 | 40.3 | 40.3 | 40.3 | 30.3 |
| 87.5° | 30.9 | 32.4 | 39.7 | 37.1 | 24.6 | 20.9 | 13.6 | 11.5 | 9.9 | 13.1 | 9.4 |
| 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-SA2A-760-U-SLR

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 |
| 2.5° | 1725.8 | 1715.3 | 1692.8 | 1687.6 | 1684.5 | 1693.4 | 1669.8 | 1676.1 | 1665.7 | 1694.9 | 1690.2 |
| 5° | 1445.0 | 1446.0 | 1464.3 | 1476.3 | 1480.5 | 1476.3 | 1460.6 | 1433.5 | 1412.5 | 1404.2 | 1406.3 |
| 7.5° | 1245.2 | 1263.5 | 1294.9 | 1329.9 | 1361.8 | 1371.2 | 1362.3 | 1310.6 | 1254.1 | 1218.5 | 1207.0 |
| 10° | 1178.8 | 1203.3 | 1239.4 | 1267.1 | 1295.4 | 1317.9 | 1322.6 | 1282.3 | 1215.4 | 1131.2 | 1098.2 |
| 12.5° | 1182.4 | 1215.9 | 1250.4 | 1259.3 | 1256.7 | 1265.6 | 1261.4 | 1254.6 | 1210.7 | 1103.5 | 1048.5 |
| 15° | 1147.9 | 1187.7 | 1211.7 | 1207.0 | 1198.6 | 1190.8 | 1179.8 | 1162.6 | 1146.9 | 1071.6 | 1010.9 |
| 17.5° | 1068.4 | 1109.2 | 1129.1 | 1130.7 | 1130.7 | 1128.6 | 1101.9 | 1095.6 | 1093.5 | 1056.9 | 1019.8 |
| 20° | 1083.1 | 1105.6 | 1096.7 | 1082.0 | 1086.2 | 1100.3 | 1084.6 | 1081.5 | 1093.5 | 1109.7 | 1102.9 |
| 22.5° | 1091.4 | 1083.6 | 1016.6 | 951.8 | 937.2 | 981.1 | 990.0 | 1025.0 | 1073.7 | 1132.2 | 1170.4 |
| 25° | 1039.7 | 976.4 | 856.6 | 783.4 | 742.1 | 782.9 | 836.2 | 901.1 | 973.8 | 1049.1 | 1093.5 |
| 27.5° | 869.2 | 821.1 | 735.3 | 669.4 | 633.3 | 639.6 | 685.1 | 744.2 | 811.6 | 862.4 | 894.8 |
| 30° | 654.8 | 633.3 | 588.9 | 566.4 | 544.4 | 539.2 | 558.5 | 581.0 | 610.8 | 617.1 | 625.5 |
| 32.5° | 482.2 | 479.0 | 481.7 | 474.3 | 470.1 | 469.6 | 463.9 | 469.1 | 472.2 | 475.9 | 468.6 |
| 35° | 436.2 | 432.0 | 424.6 | 422.6 | 419.9 | 421.0 | 418.4 | 415.8 | 417.9 | 421.0 | 423.1 |
| 37.5° | 412.6 | 406.3 | 395.9 | 392.2 | 392.2 | 393.8 | 389.6 | 388.6 | 392.2 | 402.2 | 407.4 |
| 40° | 394.3 | 387.0 | 375.0 | 370.3 | 373.4 | 377.6 | 371.8 | 369.7 | 378.6 | 389.1 | 397.5 |
| 42.5° | 377.1 | 371.3 | 359.8 | 354.6 | 357.2 | 365.0 | 356.7 | 355.1 | 366.6 | 378.1 | 388.0 |
| 45° | 362.4 | 356.7 | 346.2 | 343.6 | 344.6 | 352.0 | 346.2 | 346.2 | 357.2 | 369.7 | 378.6 |
| 47.5° | 350.9 | 343.6 | 336.8 | 334.7 | 335.7 | 339.9 | 338.9 | 338.9 | 349.3 | 362.4 | 371.3 |
| 50° | 339.4 | 333.1 | 324.2 | 325.3 | 327.9 | 333.7 | 333.1 | 334.7 | 345.2 | 361.4 | 370.8 |
| 52.5° | 334.2 | 324.8 | 314.8 | 315.9 | 323.7 | 330.5 | 328.4 | 330.0 | 342.0 | 372.4 | 385.9 |
| 55° | 328.4 | 315.9 | 304.4 | 305.9 | 314.8 | 324.8 | 322.1 | 324.2 | 338.4 | 379.7 | 398.5 |
| 57.5° | 317.4 | 302.8 | 290.2 | 291.3 | 304.4 | 314.8 | 310.6 | 313.3 | 330.0 | 371.8 | 391.7 |
| 58° | 312.7 | 300.2 | 288.2 | 288.7 | 301.2 | 312.7 | 308.0 | 310.1 | 327.4 | 369.7 | 388.6 |
| 60° | 292.9 | 285.5 | 275.1 | 275.6 | 287.6 | 297.6 | 295.0 | 297.0 | 313.8 | 354.6 | 368.7 |
| 62.5° | 265.7 | 261.5 | 258.9 | 258.9 | 266.2 | 275.6 | 278.2 | 280.8 | 296.0 | 320.6 | 333.1 |
| 65° | 236.4 | 236.4 | 236.9 | 236.9 | 241.6 | 253.6 | 255.2 | 262.0 | 276.1 | 288.2 | 297.6 |
| 67.5° | 216.5 | 215.5 | 216.5 | 213.9 | 216.0 | 223.3 | 231.2 | 237.4 | 252.1 | 260.4 | 263.6 |
| 70° | 190.9 | 190.4 | 190.9 | 187.2 | 189.8 | 196.1 | 201.3 | 211.8 | 227.0 | 233.2 | 234.8 |
| 72.5° | 165.8 | 165.8 | 166.8 | 164.2 | 164.2 | 171.0 | 174.7 | 186.2 | 200.3 | 204.0 | 204.5 |
| 75° | 139.6 | 141.2 | 141.2 | 137.5 | 138.6 | 142.8 | 147.5 | 156.9 | 170.0 | 172.6 | 172.6 |
| 77.5° | 110.9 | 116.6 | 116.6 | 113.0 | 114.5 | 115.1 | 121.3 | 126.0 | 136.0 | 137.0 | 132.8 |
| 80° | 80.5 | 86.3 | 91.0 | 87.9 | 90.5 | 87.3 | 91.0 | 94.1 | 104.1 | 99.4 | 92.6 |
| 82.5° | 57.5 | 61.7 | 65.4 | 65.9 | 63.3 | 57.5 | 62.2 | 62.8 | 67.5 | 61.2 | 57.5 |
| 85° | 31.9 | 35.6 | 40.3 | 38.2 | 34.0 | 30.3 | 31.9 | 32.9 | 32.4 | 30.9 | 28.8 |
| 87.5° | 8.4 | 8.9 | 9.9 | 7.3 | 6.8 | 5.8 | 7.8 | 7.8 | 8.9 | 9.4 | 8.9 |
| 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-SA2A-760-U-SLR

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 | 1989.4 |
| 2.5° | 1693.9 | 1716.9 | 1766.6 | 1804.2 | 1850.3 | 1906.2 | 1972.1 | 2038.5 | 2110.2 | 2132.7 | 2164.0 |
| 5° | 1401.6 | 1459.1 | 1483.1 | 1551.6 | 1619.6 | 1721.6 | 1830.4 | 1956.4 | 2094.5 | 2160.9 | 2224.7 |
| 7.5° | 1197.6 | 1228.5 | 1253.6 | 1303.8 | 1385.3 | 1509.3 | 1645.8 | 1803.2 | 1998.8 | 2095.5 | 2189.1 |
| 10° | 1087.8 | 1090.9 | 1121.8 | 1184.0 | 1255.1 | 1364.4 | 1493.6 | 1669.8 | 1887.9 | 2005.6 | 2115.4 |
| 12.5° | 1015.1 | 1001.5 | 1035.0 | 1099.8 | 1180.3 | 1281.3 | 1400.0 | 1567.9 | 1807.9 | 1928.7 | 2061.5 |
| 15° | 951.3 | 929.8 | 954.9 | 1021.4 | 1100.8 | 1219.6 | 1347.2 | 1525.0 | 1776.5 | 1917.2 | 2064.7 |
| 17.5° | 952.8 | 893.8 | 902.6 | 958.6 | 1037.6 | 1158.4 | 1313.2 | 1523.4 | 1824.1 | 1986.2 | 2160.9 |
| 20° | 1070.5 | 975.9 | 935.6 | 946.0 | 1022.4 | 1154.2 | 1328.9 | 1596.6 | 1980.5 | 2216.9 | 2403.6 |
| 22.5° | 1186.1 | 1129.1 | 1064.2 | 1042.8 | 1084.6 | 1222.7 | 1428.7 | 1769.7 | 2320.4 | 2676.5 | 3013.9 |
| 25° | 1145.8 | 1194.5 | 1178.2 | 1147.9 | 1157.3 | 1271.9 | 1496.7 | 1912.0 | 2584.5 | 2985.6 | 3302.5 |
| 27.5° | 916.8 | 1005.1 | 1022.9 | 1022.4 | 1026.1 | 1120.2 | 1346.1 | 1816.3 | 2617.5 | 3044.7 | 3347.5 |
| 30° | 644.3 | 652.1 | 661.6 | 679.9 | 696.6 | 780.8 | 1053.3 | 1594.5 | 2602.8 | 3071.4 | 3374.7 |
| 32.5° | 464.9 | 475.4 | 488.5 | 513.6 | 553.3 | 660.5 | 921.5 | 1523.9 | 2680.2 | 3181.7 | 3454.2 |
| 35° | 425.2 | 437.2 | 449.8 | 478.5 | 516.2 | 615.5 | 869.2 | 1494.6 | 2807.3 | 3360.6 | 3597.0 |
| 37.5° | 412.6 | 426.2 | 437.2 | 458.1 | 488.5 | 583.1 | 821.6 | 1474.8 | 2937.5 | 3549.9 | 3788.4 |
| 40° | 403.7 | 419.4 | 428.3 | 445.0 | 466.0 | 553.3 | 779.2 | 1459.1 | 3063.5 | 3723.0 | 3942.1 |
| 42.5° | 395.9 | 412.1 | 423.6 | 435.6 | 452.9 | 526.6 | 741.6 | 1443.4 | 3172.8 | 3890.9 | 4095.4 |
| 45° | 386.5 | 406.9 | 421.5 | 430.9 | 446.1 | 504.1 | 712.8 | 1430.8 | 3297.3 | 4039.9 | 4250.2 |
| 47.5° | 378.6 | 401.1 | 419.4 | 430.4 | 436.2 | 488.5 | 689.8 | 1448.1 | 3446.9 | 4195.8 | 4394.0 |
| 50° | 379.2 | 400.6 | 423.6 | 440.9 | 425.7 | 475.4 | 675.7 | 1516.6 | 3641.4 | 4380.9 | 4507.5 |
| 52.5° | 395.9 | 422.0 | 440.3 | 444.5 | 411.1 | 459.7 | 668.4 | 1636.4 | 3871.5 | 4544.6 | 4622.0 |
| 55° | 414.7 | 441.9 | 461.8 | 459.2 | 403.2 | 439.8 | 666.8 | 1764.0 | 4123.6 | 4735.5 | 4771.0 |
| 57.5° | 407.9 | 447.7 | 478.0 | 464.4 | 403.7 | 420.5 | 660.0 | 1867.0 | 4334.4 | 4878.2 | 4918.5 |
| 58° | 405.8 | 445.6 | 480.1 | 463.3 | 402.2 | 414.7 | 658.4 | 1875.9 | 4363.6 | 4888.2 | 4939.4 |
| 60° | 385.4 | 427.3 | 478.5 | 455.5 | 393.3 | 399.0 | 641.2 | 1904.6 | 4355.8 | 4836.9 | 4952.0 |
| 62.5° | 348.3 | 382.8 | 442.4 | 417.3 | 366.1 | 378.1 | 602.5 | 1869.1 | 4143.5 | 4590.1 | 4768.4 |
| 65° | 306.5 | 332.1 | 371.8 | 367.1 | 327.4 | 356.7 | 549.6 | 1728.4 | 3718.3 | 4189.5 | 4377.2 |
| 67.5° | 275.1 | 296.0 | 321.1 | 314.3 | 294.4 | 327.9 | 492.6 | 1490.5 | 3241.4 | 3708.4 | 3944.7 |
| 70° | 243.2 | 259.4 | 271.9 | 267.2 | 261.0 | 299.7 | 441.9 | 1209.6 | 2784.3 | 3251.3 | 3480.3 |
| 72.5° | 210.8 | 225.9 | 236.4 | 229.6 | 225.9 | 269.9 | 400.6 | 938.7 | 2199.1 | 2682.3 | 2976.7 |
| 75° | 176.2 | 191.4 | 198.7 | 190.9 | 188.8 | 238.0 | 339.4 | 701.3 | 1650.0 | 2067.8 | 2322.0 |
| 77.5° | 136.5 | 152.7 | 162.1 | 159.5 | 160.6 | 195.6 | 274.0 | 480.1 | 1179.8 | 1409.4 | 1677.2 |
| 80° | 95.7 | 113.5 | 119.8 | 117.1 | 124.5 | 149.0 | 193.5 | 304.9 | 813.7 | 914.7 | 1103.5 |
| 82.5° | 59.1 | 75.8 | 76.9 | 79.5 | 84.7 | 110.3 | 145.9 | 185.7 | 510.9 | 528.2 | 665.2 |
| 85° | 29.8 | 36.1 | 38.7 | 42.9 | 47.6 | 67.5 | 83.2 | 115.1 | 328.9 | 248.9 | 371.8 |
| 87.5° | 9.9 | 10.5 | 12.6 | 15.7 | 19.3 | 27.7 | 35.6 | 47.1 | 81.6 | 45.0 | 115.1 |
| 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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| 22.5° | 3331.8 | 3315.6 | 3178.6 | 3177.0 | 3361.1 | 3562.5 | 3550.4 | 3094.4 | 2793.2 | 2761.8 |
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| 27.5° | 3477.7 | 3291.0 | 3160.8 | 3149.8 | 3123.2 | 3416.5 | 3524.8 | 3242.9 | 2966.8 | 2892.5 |
| 30° | 3472.0 | 3197.4 | 3011.2 | 3033.2 | 3058.8 | 3339.1 | 3564.5 | 3377.3 | 3081.8 | 3002.4 |
| 32.5° | 3486.1 | 3210.5 | 3022.2 | 3026.4 | 3102.8 | 3350.7 | 3608.5 | 3523.8 | 3233.0 | 3153.5 |
| 35° | 3543.1 | 3284.8 | 3092.3 | 3082.4 | 3201.6 | 3426.0 | 3683.3 | 3753.9 | 3439.6 | 3349.1 |
| 37.5° | 3635.1 | 3432.8 | 3220.4 | 3217.8 | 3390.9 | 3561.9 | 3776.3 | 3986.1 | 3645.1 | 3547.8 |
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| 42.5° | 3934.3 | 3813.5 | 3749.2 | 3805.1 | 4010.6 | 4031.6 | 4085.4 | 4462.0 | 4087.5 | 3942.1 |
| 45° | 4085.9 | 4080.2 | 4169.6 | 4318.1 | 4437.9 | 4312.4 | 4282.1 | 4615.2 | 4245.4 | 4087.5 |
| 47.5° | 4266.4 | 4422.2 | 4692.1 | 4909.6 | 5035.1 | 4639.2 | 4449.9 | 4715.1 | 4360.5 | 4215.1 |
| 50° | 4449.4 | 4831.7 | 5262.6 | 5565.9 | 5592.6 | 4994.3 | 4565.5 | 4809.2 | 4465.1 | 4314.0 |
| 52.5° | 4641.9 | 5158.5 | 5732.2 | 6084.7 | 6032.9 | 5303.4 | 4677.4 | 4873.0 | 4572.8 | 4440.0 |
| 55° | 4809.2 | 5358.8 | 5994.8 | 6333.1 | 6257.3 | 5491.7 | 4798.2 | 4942.0 | 4726.6 | 4614.7 |
| 57.5° | 4902.8 | 5375.6 | 5929.4 | 6224.9 | 6142.8 | 5455.1 | 4853.7 | 4993.3 | 4824.9 | 4737.0 |
| 58° | 4916.4 | 5353.1 | 5871.4 | 6162.1 | 6078.4 | 5424.2 | 4853.1 | 4991.2 | 4831.2 | 4742.8 |
| 60° | 4904.4 | 5207.2 | 5655.4 | 5914.2 | 5826.4 | 5230.7 | 4833.3 | 4952.0 | 4751.7 | 4676.9 |
| 62.5° | 4793.0 | 4954.1 | 5282.5 | 5470.8 | 5445.7 | 4928.4 | 4751.7 | 4804.0 | 4509.5 | 4437.4 |
| 65° | 4646.6 | 4608.9 | 4805.0 | 4938.4 | 4957.2 | 4702.0 | 4670.6 | 4483.9 | 4198.9 | 4096.9 |
| 67.5° | 4468.8 | 4217.7 | 4217.2 | 4293.0 | 4324.4 | 4353.7 | 4501.7 | 4136.1 | 3751.2 | 3643.5 |
| 70° | 4167.0 | 3614.7 | 3448.4 | 3537.9 | 3511.7 | 3759.1 | 4199.9 | 3647.7 | 3211.5 | 3085.5 |
| 72.5° | 3613.7 | 2868.5 | 2602.3 | 2717.3 | 2651.4 | 2948.0 | 3674.9 | 3001.8 | 2655.6 | 2500.8 |
| 75° | 2929.1 | 2145.7 | 1871.2 | 1976.8 | 1936.0 | 2236.2 | 3057.8 | 2180.3 | 1904.6 | 1845.6 |
| 77.5° | 2274.4 | 1554.8 | 1395.3 | 1380.6 | 1411.0 | 1664.1 | 2243.0 | 1472.2 | 1255.6 | 1215.4 |
| 80° | 1461.2 | 1112.9 | 1122.3 | 1103.5 | 1119.1 | 1049.1 | 1361.8 | 939.2 | 850.3 | 817.9 |
| 82.5° | 961.7 | 775.6 | 924.6 | 853.5 | 810.6 | 705.5 | 893.2 | 615.0 | 521.9 | 504.1 |
| 85° | 655.3 | 571.1 | 519.8 | 397.5 | 468.1 | 543.4 | 669.9 | 331.0 | 262.5 | 238.0 |
| 87.5° | 296.0 | 198.7 | 145.9 | 90.0 | 142.2 | 164.2 | 325.3 | 38.7 | 29.8 | 30.9 |
| 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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