

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: P458615

Luminaire Tested: **GALN-SA1D-735-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458615
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-SA1D-735-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6285 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

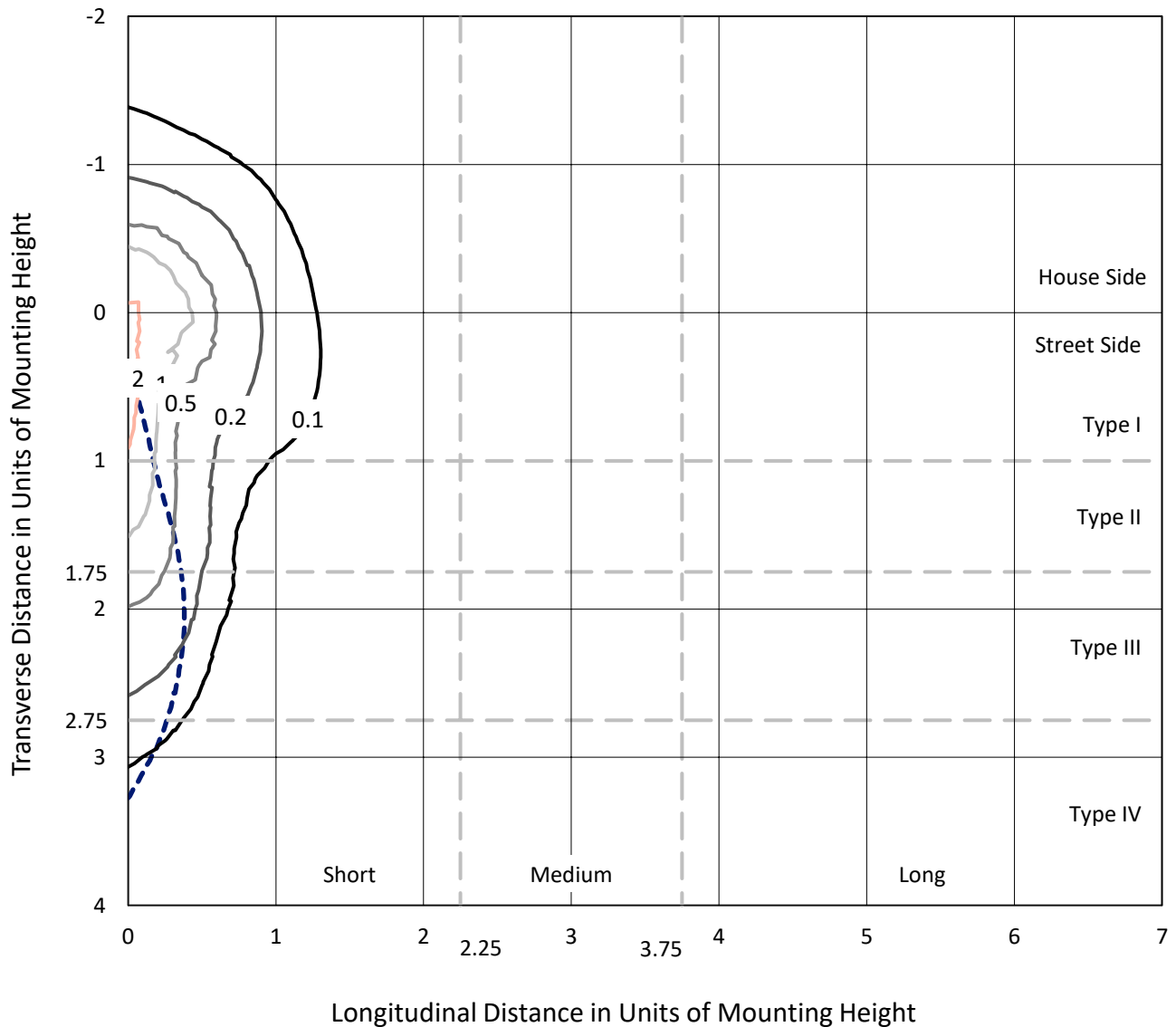
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

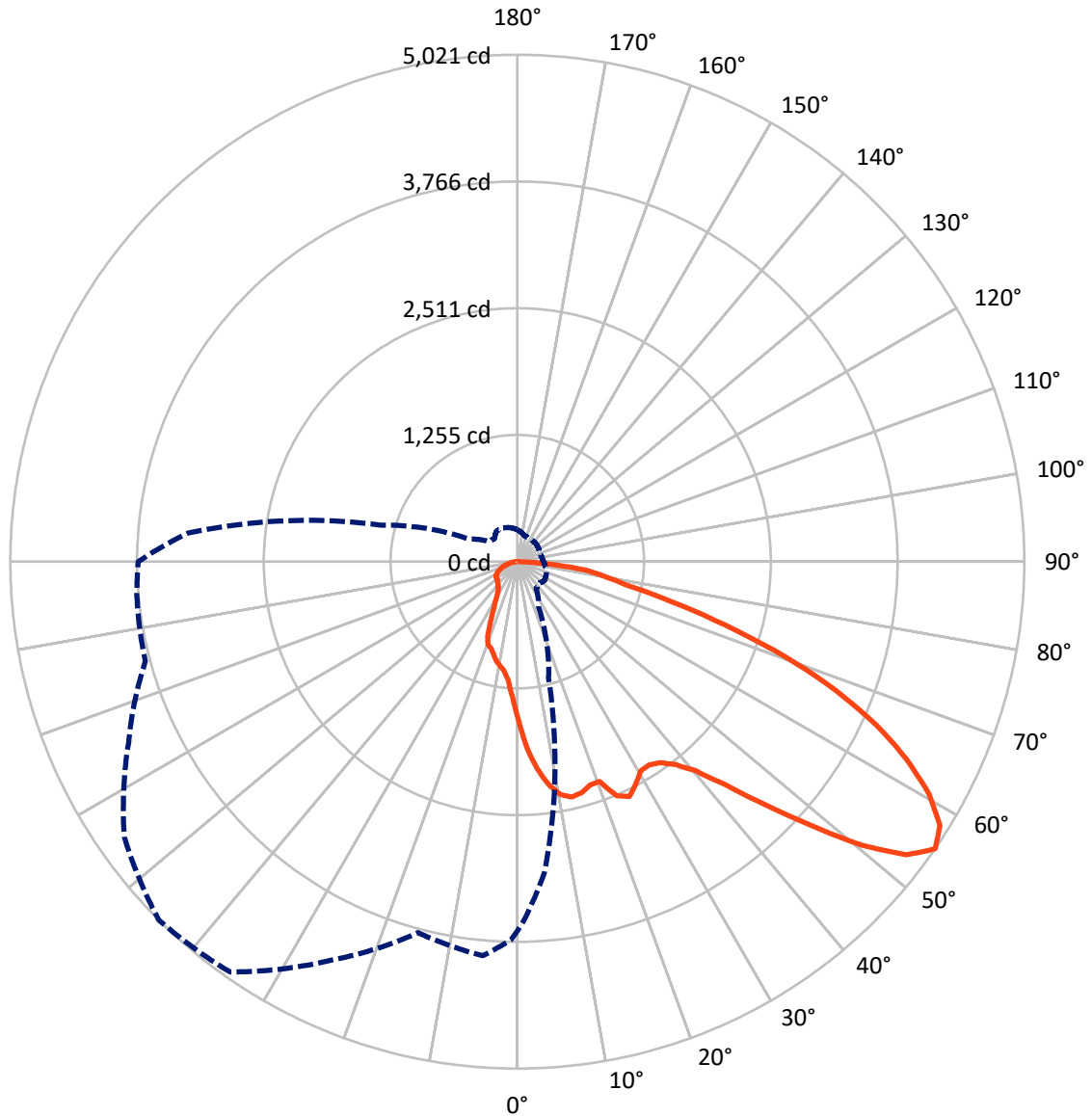
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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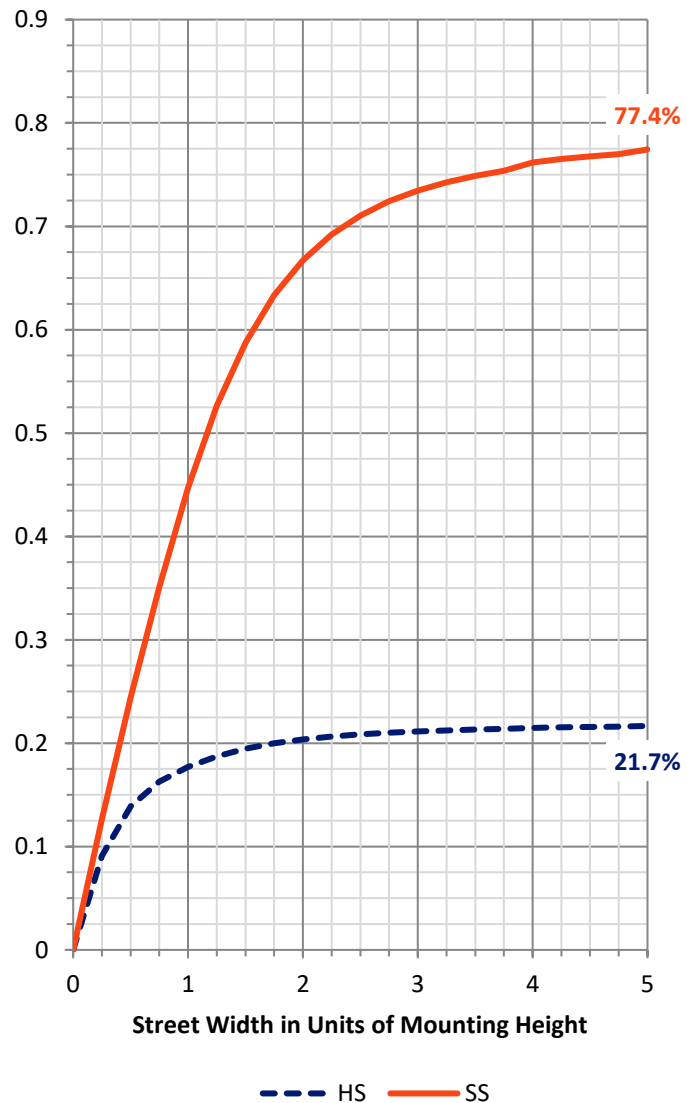
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1374.8 | 0.0 | 1374.8 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 4910.2 | 0.0 | 4910.2 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 6285.0 | 0.0 | 6285.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 133.7 | 2.1 |
| 10°-20° | 354.7 | 5.6 |
| 20°-30° | 612.7 | 9.7 |
| 30°-40° | 712.0 | 11.3 |
| 40°-50° | 993.4 | 15.8 |
| 50°-60° | 1348.0 | 21.4 |
| 60°-70° | 1282.4 | 20.4 |
| 70°-80° | 692.8 | 11.0 |
| 80°-90° | 155.3 | 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° | 6285.0 | 100.0 |
| 0°-180° | 6285.0 | 100.0 |



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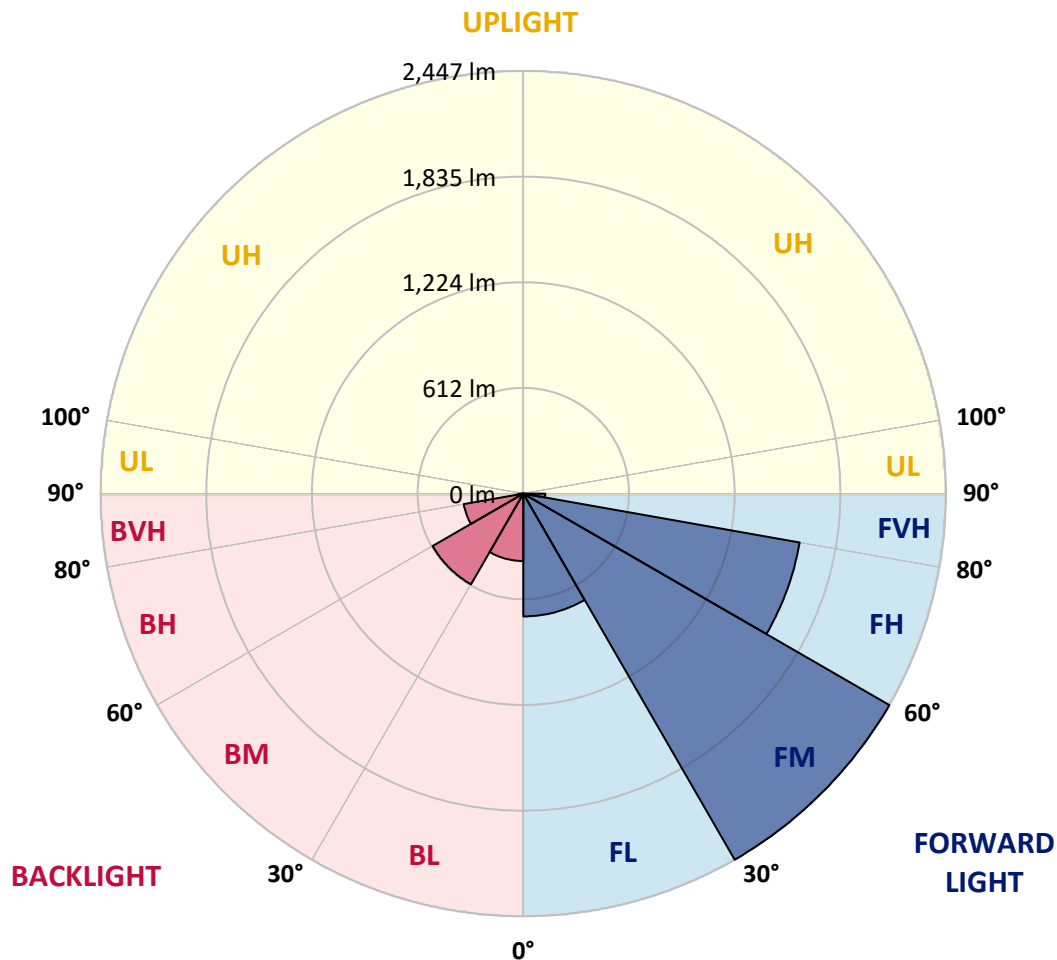
CATALOG NUMBER: GALN-SA1D-735-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 710.8 | 11.3 | | | |
| FM (30°-60°) | 2447.3 | 38.9 | | | |
| FH (60°-80°) | 1625.2 | 25.9 | | | G1/1800 |
| FVH (80°-90°) | 126.9 | 2.0 | | | G2/225 |
| BL (0°-30°) | 390.2 | 6.2 | B1/500 | | |
| BM (30°-60°) | 606.2 | 9.6 | B1/1000 | | |
| BH (60°-80°) | 350.1 | 5.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 28.4 | 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° | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 |
| 2.5° | 1752.3 | 1745.6 | 1727.0 | 1678.0 | 1628.7 | 1578.5 | 1540.0 | 1491.9 | 1441.7 | 1414.8 | 1380.3 |
| 5° | 1776.3 | 1768.9 | 1724.9 | 1614.6 | 1514.7 | 1409.8 | 1326.0 | 1252.6 | 1222.8 | 1178.8 | 1143.6 |
| 7.5° | 1719.9 | 1716.6 | 1650.7 | 1492.3 | 1355.5 | 1218.2 | 1123.3 | 1064.4 | 1010.9 | 991.0 | 995.1 |
| 10° | 1668.5 | 1655.2 | 1572.7 | 1365.8 | 1206.2 | 1094.6 | 1026.6 | 969.0 | 931.3 | 921.3 | 923.4 |
| 12.5° | 1625.8 | 1608.0 | 1510.5 | 1280.8 | 1141.1 | 1051.9 | 965.3 | 905.2 | 870.7 | 880.3 | 912.6 |
| 15° | 1617.1 | 1593.0 | 1484.4 | 1251.8 | 1105.4 | 990.6 | 895.6 | 826.4 | 800.7 | 821.4 | 873.2 |
| 17.5° | 1673.5 | 1643.2 | 1529.2 | 1261.3 | 1071.4 | 928.0 | 811.4 | 732.3 | 710.7 | 743.9 | 811.4 |
| 20° | 1854.7 | 1809.9 | 1668.9 | 1316.5 | 1068.1 | 896.9 | 762.5 | 682.9 | 692.0 | 755.1 | 825.5 |
| 22.5° | 2189.7 | 2122.5 | 1913.6 | 1396.9 | 1085.5 | 889.0 | 752.6 | 711.1 | 761.3 | 814.8 | 861.2 |
| 25° | 2256.1 | 2203.4 | 1957.5 | 1415.2 | 1081.8 | 883.6 | 780.8 | 801.5 | 857.5 | 884.0 | 867.8 |
| 27.5° | 2293.4 | 2233.2 | 1954.6 | 1324.8 | 967.4 | 801.5 | 746.4 | 780.8 | 794.9 | 769.2 | 725.2 |
| 30° | 2380.4 | 2317.8 | 2004.0 | 1229.8 | 796.5 | 594.6 | 521.2 | 507.1 | 516.6 | 521.6 | 505.9 |
| 32.5° | 2500.3 | 2438.5 | 2096.8 | 1167.6 | 688.7 | 491.8 | 419.6 | 399.7 | 395.2 | 389.8 | 383.5 |
| 35° | 2655.4 | 2560.4 | 2188.1 | 1127.8 | 644.4 | 454.9 | 388.5 | 373.2 | 367.0 | 359.5 | 352.9 |
| 37.5° | 2812.9 | 2713.4 | 2303.3 | 1085.9 | 614.9 | 429.2 | 367.8 | 360.7 | 350.0 | 342.1 | 332.5 |
| 40° | 2980.4 | 2868.9 | 2408.2 | 1049.5 | 586.3 | 412.6 | 352.9 | 352.0 | 337.9 | 328.8 | 317.6 |
| 42.5° | 3125.6 | 3010.7 | 2501.9 | 1027.1 | 564.3 | 395.2 | 343.7 | 346.2 | 331.7 | 318.0 | 303.5 |
| 45° | 3240.8 | 3128.0 | 2588.6 | 1027.1 | 546.5 | 377.7 | 342.1 | 340.4 | 325.9 | 308.9 | 292.3 |
| 47.5° | 3342.0 | 3225.5 | 2673.2 | 1053.2 | 535.3 | 363.2 | 333.0 | 335.9 | 320.9 | 299.4 | 283.2 |
| 50° | 3420.4 | 3317.5 | 2787.2 | 1093.8 | 524.1 | 351.6 | 321.3 | 337.1 | 316.8 | 294.4 | 275.7 |
| 52.5° | 3520.3 | 3428.2 | 2924.5 | 1149.4 | 514.6 | 338.8 | 311.0 | 337.1 | 316.4 | 294.8 | 274.5 |
| 55° | 3658.8 | 3561.8 | 3089.9 | 1195.4 | 499.2 | 326.7 | 301.9 | 327.6 | 315.1 | 292.7 | 271.2 |
| 57.5° | 3755.8 | 3683.2 | 3206.8 | 1226.1 | 477.3 | 311.4 | 293.6 | 318.4 | 309.7 | 284.9 | 261.2 |
| 58° | 3760.4 | 3689.5 | 3223.8 | 1233.1 | 471.9 | 308.5 | 291.5 | 314.3 | 307.2 | 281.5 | 257.9 |
| 60° | 3708.1 | 3647.2 | 3227.1 | 1223.2 | 441.2 | 294.0 | 280.7 | 297.3 | 294.0 | 262.1 | 240.1 |
| 62.5° | 3518.2 | 3453.1 | 3093.2 | 1142.3 | 400.5 | 276.2 | 264.1 | 274.5 | 267.0 | 234.7 | 214.4 |
| 65° | 3248.3 | 3128.5 | 2817.9 | 1015.5 | 371.5 | 257.1 | 241.7 | 242.6 | 234.7 | 211.5 | 193.6 |
| 67.5° | 2888.8 | 2754.9 | 2385.8 | 855.8 | 349.5 | 235.9 | 215.2 | 213.1 | 203.6 | 188.7 | 174.1 |
| 70° | 2446.4 | 2354.7 | 1938.9 | 696.2 | 325.1 | 212.7 | 185.3 | 184.1 | 178.3 | 167.1 | 154.2 |
| 72.5° | 1982.8 | 1866.3 | 1565.7 | 557.3 | 295.2 | 190.3 | 157.6 | 160.1 | 152.6 | 144.7 | 133.1 |
| 75° | 1463.3 | 1387.0 | 1210.3 | 447.0 | 255.0 | 165.9 | 131.4 | 132.3 | 129.0 | 120.7 | 111.5 |
| 77.5° | 963.6 | 940.8 | 865.8 | 293.6 | 196.1 | 131.9 | 107.4 | 108.2 | 105.7 | 98.3 | 88.7 |
| 80° | 648.5 | 633.2 | 586.7 | 189.1 | 131.0 | 95.4 | 82.9 | 83.8 | 83.3 | 75.5 | 62.6 |
| 82.5° | 399.7 | 393.1 | 378.2 | 127.7 | 90.8 | 68.4 | 54.7 | 57.2 | 61.8 | 53.1 | 42.7 |
| 85° | 188.7 | 189.1 | 228.5 | 69.7 | 53.5 | 44.0 | 29.9 | 31.9 | 31.9 | 31.9 | 24.0 |
| 87.5° | 24.5 | 25.7 | 31.5 | 29.4 | 19.5 | 16.6 | 10.8 | 9.1 | 7.9 | 10.4 | 7.5 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 |
| 2.5° | 1368.3 | 1360.0 | 1342.2 | 1338.0 | 1335.6 | 1342.6 | 1323.9 | 1328.9 | 1320.6 | 1343.8 | 1340.1 |
| 5° | 1145.6 | 1146.5 | 1161.0 | 1170.5 | 1173.8 | 1170.5 | 1158.1 | 1136.5 | 1119.9 | 1113.3 | 1115.0 |
| 7.5° | 987.3 | 1001.8 | 1026.6 | 1054.4 | 1079.7 | 1087.2 | 1080.1 | 1039.1 | 994.3 | 966.1 | 957.0 |
| 10° | 934.6 | 954.1 | 982.7 | 1004.7 | 1027.1 | 1044.9 | 1048.6 | 1016.7 | 963.6 | 896.9 | 870.7 |
| 12.5° | 937.5 | 964.0 | 991.4 | 998.5 | 996.4 | 1003.4 | 1000.1 | 994.7 | 959.9 | 874.9 | 831.4 |
| 15° | 910.1 | 941.6 | 960.7 | 957.0 | 950.4 | 944.1 | 935.4 | 921.7 | 909.3 | 849.6 | 801.5 |
| 17.5° | 847.1 | 879.5 | 895.2 | 896.5 | 896.5 | 894.8 | 873.6 | 868.7 | 867.0 | 838.0 | 808.5 |
| 20° | 858.7 | 876.5 | 869.5 | 857.9 | 861.2 | 872.4 | 860.0 | 857.5 | 867.0 | 879.9 | 874.5 |
| 22.5° | 865.4 | 859.1 | 806.1 | 754.6 | 743.0 | 777.9 | 784.9 | 812.7 | 851.3 | 897.7 | 928.0 |
| 25° | 824.3 | 774.1 | 679.2 | 621.1 | 588.4 | 620.7 | 663.0 | 714.4 | 772.1 | 831.8 | 867.0 |
| 27.5° | 689.1 | 651.0 | 583.0 | 530.7 | 502.1 | 507.1 | 543.2 | 590.0 | 643.5 | 683.7 | 709.4 |
| 30° | 519.1 | 502.1 | 466.9 | 449.1 | 431.6 | 427.5 | 442.8 | 460.7 | 484.3 | 489.3 | 495.9 |
| 32.5° | 382.3 | 379.8 | 381.9 | 376.1 | 372.8 | 372.3 | 367.8 | 371.9 | 374.4 | 377.3 | 371.5 |
| 35° | 345.8 | 342.5 | 336.7 | 335.0 | 333.0 | 333.8 | 331.7 | 329.6 | 331.3 | 333.8 | 335.4 |
| 37.5° | 327.2 | 322.2 | 313.9 | 311.0 | 311.0 | 312.2 | 308.9 | 308.1 | 311.0 | 318.9 | 323.0 |
| 40° | 312.6 | 306.8 | 297.3 | 293.6 | 296.1 | 299.4 | 294.8 | 293.2 | 300.2 | 308.5 | 315.1 |
| 42.5° | 299.0 | 294.4 | 285.3 | 281.1 | 283.2 | 289.4 | 282.8 | 281.5 | 290.7 | 299.8 | 307.7 |
| 45° | 287.3 | 282.8 | 274.5 | 272.4 | 273.2 | 279.1 | 274.5 | 274.5 | 283.2 | 293.2 | 300.2 |
| 47.5° | 278.2 | 272.4 | 267.0 | 265.4 | 266.2 | 269.5 | 268.7 | 268.7 | 277.0 | 287.3 | 294.4 |
| 50° | 269.1 | 264.1 | 257.1 | 257.9 | 260.0 | 264.5 | 264.1 | 265.4 | 273.7 | 286.5 | 294.0 |
| 52.5° | 265.0 | 257.5 | 249.6 | 250.4 | 256.7 | 262.1 | 260.4 | 261.6 | 271.2 | 295.2 | 306.0 |
| 55° | 260.4 | 250.4 | 241.3 | 242.6 | 249.6 | 257.5 | 255.4 | 257.1 | 268.3 | 301.0 | 316.0 |
| 57.5° | 251.7 | 240.1 | 230.1 | 231.0 | 241.3 | 249.6 | 246.3 | 248.4 | 261.6 | 294.8 | 310.6 |
| 58° | 248.0 | 238.0 | 228.5 | 228.9 | 238.8 | 248.0 | 244.2 | 245.9 | 259.6 | 293.2 | 308.1 |
| 60° | 232.2 | 226.4 | 218.1 | 218.5 | 228.1 | 235.9 | 233.9 | 235.5 | 248.8 | 281.1 | 292.3 |
| 62.5° | 210.6 | 207.3 | 205.2 | 205.2 | 211.1 | 218.5 | 220.6 | 222.7 | 234.7 | 254.2 | 264.1 |
| 65° | 187.4 | 187.4 | 187.8 | 187.8 | 191.6 | 201.1 | 202.3 | 207.7 | 218.9 | 228.5 | 235.9 |
| 67.5° | 171.7 | 170.8 | 171.7 | 169.6 | 171.2 | 177.1 | 183.3 | 188.2 | 199.9 | 206.5 | 209.0 |
| 70° | 151.3 | 150.9 | 151.3 | 148.4 | 150.5 | 155.5 | 159.6 | 167.9 | 180.0 | 184.9 | 186.2 |
| 72.5° | 131.4 | 131.4 | 132.3 | 130.2 | 130.2 | 135.6 | 138.5 | 147.6 | 158.8 | 161.7 | 162.1 |
| 75° | 110.7 | 112.0 | 112.0 | 109.1 | 109.9 | 113.2 | 116.9 | 124.4 | 134.8 | 136.8 | 136.8 |
| 77.5° | 87.9 | 92.5 | 92.5 | 89.6 | 90.8 | 91.2 | 96.2 | 99.9 | 107.8 | 108.6 | 105.3 |
| 80° | 63.9 | 68.4 | 72.1 | 69.7 | 71.7 | 69.2 | 72.1 | 74.6 | 82.5 | 78.8 | 73.4 |
| 82.5° | 45.6 | 48.9 | 51.8 | 52.2 | 50.2 | 45.6 | 49.3 | 49.8 | 53.5 | 48.5 | 45.6 |
| 85° | 25.3 | 28.2 | 31.9 | 30.3 | 27.0 | 24.0 | 25.3 | 26.1 | 25.7 | 24.5 | 22.8 |
| 87.5° | 6.6 | 7.0 | 7.9 | 5.8 | 5.4 | 4.6 | 6.2 | 6.2 | 7.0 | 7.5 | 7.0 |
| 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-SA1D-735-U-SLR

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 |
| 2.5° | 1343.0 | 1361.3 | 1400.7 | 1430.5 | 1467.0 | 1511.4 | 1563.6 | 1616.3 | 1673.1 | 1690.9 | 1715.8 |
| 5° | 1111.2 | 1156.8 | 1175.9 | 1230.2 | 1284.1 | 1365.0 | 1451.2 | 1551.2 | 1660.6 | 1713.3 | 1763.9 |
| 7.5° | 949.5 | 974.0 | 993.9 | 1033.7 | 1098.4 | 1196.7 | 1304.9 | 1429.7 | 1584.8 | 1661.5 | 1735.7 |
| 10° | 862.5 | 864.9 | 889.4 | 938.7 | 995.1 | 1081.8 | 1184.2 | 1323.9 | 1496.8 | 1590.1 | 1677.2 |
| 12.5° | 804.8 | 794.0 | 820.6 | 872.0 | 935.8 | 1015.9 | 1110.0 | 1243.1 | 1433.4 | 1529.2 | 1634.5 |
| 15° | 754.2 | 737.2 | 757.1 | 809.8 | 872.8 | 966.9 | 1068.1 | 1209.1 | 1408.5 | 1520.1 | 1637.0 |
| 17.5° | 755.5 | 708.6 | 715.7 | 760.0 | 822.6 | 918.4 | 1041.2 | 1207.8 | 1446.3 | 1574.8 | 1713.3 |
| 20° | 848.8 | 773.7 | 741.8 | 750.1 | 810.6 | 915.1 | 1053.6 | 1265.9 | 1570.2 | 1757.7 | 1905.7 |
| 22.5° | 940.4 | 895.2 | 843.8 | 826.8 | 860.0 | 969.4 | 1132.8 | 1403.1 | 1839.8 | 2122.1 | 2389.6 |
| 25° | 908.5 | 947.0 | 934.2 | 910.1 | 917.6 | 1008.4 | 1186.7 | 1515.9 | 2049.1 | 2367.2 | 2618.4 |
| 27.5° | 726.9 | 796.9 | 811.0 | 810.6 | 813.5 | 888.2 | 1067.3 | 1440.0 | 2075.3 | 2414.0 | 2654.1 |
| 30° | 510.8 | 517.1 | 524.5 | 539.0 | 552.3 | 619.1 | 835.1 | 1264.2 | 2063.7 | 2435.2 | 2675.7 |
| 32.5° | 368.6 | 376.9 | 387.3 | 407.2 | 438.7 | 523.7 | 730.6 | 1208.3 | 2125.0 | 2522.7 | 2738.7 |
| 35° | 337.1 | 346.6 | 356.6 | 379.4 | 409.2 | 488.0 | 689.1 | 1185.0 | 2225.8 | 2664.5 | 2851.9 |
| 37.5° | 327.2 | 337.9 | 346.6 | 363.2 | 387.3 | 462.3 | 651.4 | 1169.3 | 2329.0 | 2814.6 | 3003.7 |
| 40° | 320.1 | 332.5 | 339.6 | 352.9 | 369.4 | 438.7 | 617.8 | 1156.8 | 2429.0 | 2951.8 | 3125.6 |
| 42.5° | 313.9 | 326.7 | 335.9 | 345.4 | 359.1 | 417.5 | 588.0 | 1144.4 | 2515.6 | 3084.9 | 3247.0 |
| 45° | 306.4 | 322.6 | 334.2 | 341.7 | 353.7 | 399.7 | 565.2 | 1134.5 | 2614.3 | 3203.1 | 3369.8 |
| 47.5° | 300.2 | 318.0 | 332.5 | 341.2 | 345.8 | 387.3 | 546.9 | 1148.1 | 2732.9 | 3326.7 | 3483.8 |
| 50° | 300.6 | 317.6 | 335.9 | 349.5 | 337.5 | 376.9 | 535.7 | 1202.5 | 2887.1 | 3473.4 | 3573.8 |
| 52.5° | 313.9 | 334.6 | 349.1 | 352.4 | 325.9 | 364.5 | 529.9 | 1297.4 | 3069.6 | 3603.2 | 3664.6 |
| 55° | 328.8 | 350.4 | 366.1 | 364.1 | 319.7 | 348.7 | 528.7 | 1398.6 | 3269.4 | 3754.6 | 3782.8 |
| 57.5° | 323.4 | 354.9 | 379.0 | 368.2 | 320.1 | 333.4 | 523.3 | 1480.3 | 3436.5 | 3867.8 | 3899.7 |
| 58° | 321.8 | 353.3 | 380.6 | 367.4 | 318.9 | 328.8 | 522.0 | 1487.3 | 3459.8 | 3875.6 | 3916.3 |
| 60° | 305.6 | 338.8 | 379.4 | 361.2 | 311.8 | 316.4 | 508.3 | 1510.1 | 3453.5 | 3835.0 | 3926.2 |
| 62.5° | 276.2 | 303.5 | 350.8 | 330.9 | 290.2 | 299.8 | 477.7 | 1481.9 | 3285.2 | 3639.3 | 3780.7 |
| 65° | 243.0 | 263.3 | 294.8 | 291.1 | 259.6 | 282.8 | 435.8 | 1370.4 | 2948.1 | 3321.7 | 3470.5 |
| 67.5° | 218.1 | 234.7 | 254.6 | 249.2 | 233.4 | 260.0 | 390.6 | 1181.7 | 2569.9 | 2940.2 | 3127.6 |
| 70° | 192.8 | 205.7 | 215.6 | 211.9 | 206.9 | 237.6 | 350.4 | 959.1 | 2207.5 | 2577.8 | 2759.4 |
| 72.5° | 167.1 | 179.1 | 187.4 | 182.0 | 179.1 | 214.0 | 317.6 | 744.3 | 1743.6 | 2126.7 | 2360.1 |
| 75° | 139.7 | 151.8 | 157.6 | 151.3 | 149.7 | 188.7 | 269.1 | 556.0 | 1308.2 | 1639.5 | 1841.0 |
| 77.5° | 108.2 | 121.1 | 128.5 | 126.5 | 127.3 | 155.1 | 217.3 | 380.6 | 935.4 | 1117.5 | 1329.7 |
| 80° | 75.9 | 90.0 | 95.0 | 92.9 | 98.7 | 118.2 | 153.4 | 241.7 | 645.2 | 725.2 | 874.9 |
| 82.5° | 46.9 | 60.1 | 61.0 | 63.0 | 67.2 | 87.5 | 115.7 | 147.2 | 405.1 | 418.8 | 527.4 |
| 85° | 23.6 | 28.6 | 30.7 | 34.0 | 37.7 | 53.5 | 65.9 | 91.2 | 260.8 | 197.4 | 294.8 |
| 87.5° | 7.9 | 8.3 | 10.0 | 12.4 | 15.3 | 22.0 | 28.2 | 37.3 | 64.7 | 35.7 | 91.2 |
| 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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| 0° | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 | 1577.3 |
| 2.5° | 1766.0 | 1801.2 | 1826.9 | 1850.5 | 1827.7 | 1825.7 | 1803.3 | 1767.2 | 1752.3 | 1752.3 |
| 5° | 1870.0 | 1952.5 | 2019.3 | 2062.0 | 2043.8 | 1999.8 | 1927.2 | 1834.8 | 1785.0 | 1776.3 |
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| 12.5° | 1863.0 | 2097.2 | 2291.7 | 2392.5 | 2364.7 | 2198.4 | 1987.0 | 1753.5 | 1651.9 | 1625.8 |
| 15° | 1876.2 | 2098.9 | 2271.4 | 2375.5 | 2393.3 | 2250.2 | 2021.8 | 1768.9 | 1644.9 | 1617.1 |
| 17.5° | 1960.0 | 2130.4 | 2242.4 | 2326.5 | 2389.2 | 2320.7 | 2120.9 | 1842.2 | 1707.9 | 1673.5 |
| 20° | 2135.0 | 2205.9 | 2259.0 | 2324.1 | 2424.8 | 2464.6 | 2323.6 | 2043.8 | 1885.0 | 1854.7 |
| 22.5° | 2641.7 | 2628.8 | 2520.2 | 2518.9 | 2664.9 | 2824.5 | 2815.0 | 2453.4 | 2214.6 | 2189.7 |
| 25° | 2831.6 | 2771.9 | 2614.7 | 2576.6 | 2640.8 | 2887.1 | 2851.5 | 2537.2 | 2316.6 | 2256.1 |
| 27.5° | 2757.4 | 2609.3 | 2506.1 | 2497.4 | 2476.2 | 2708.8 | 2794.7 | 2571.2 | 2352.3 | 2293.4 |
| 30° | 2752.8 | 2535.1 | 2387.5 | 2404.9 | 2425.2 | 2647.5 | 2826.2 | 2677.7 | 2443.5 | 2380.4 |
| 32.5° | 2764.0 | 2545.5 | 2396.2 | 2399.5 | 2460.1 | 2656.6 | 2861.0 | 2793.8 | 2563.3 | 2500.3 |
| 35° | 2809.2 | 2604.4 | 2451.8 | 2443.9 | 2538.4 | 2716.3 | 2920.3 | 2976.3 | 2727.1 | 2655.4 |
| 37.5° | 2882.2 | 2721.7 | 2553.4 | 2551.3 | 2688.5 | 2824.1 | 2994.1 | 3160.4 | 2890.0 | 2812.9 |
| 40° | 2989.6 | 2858.9 | 2734.1 | 2722.9 | 2892.5 | 2999.5 | 3089.9 | 3356.5 | 3079.5 | 2980.4 |
| 42.5° | 3119.3 | 3023.6 | 2972.6 | 3016.9 | 3179.9 | 3196.5 | 3239.2 | 3537.7 | 3240.8 | 3125.6 |
| 45° | 3239.6 | 3235.0 | 3305.9 | 3423.7 | 3518.6 | 3419.1 | 3395.1 | 3659.2 | 3366.0 | 3240.8 |
| 47.5° | 3382.6 | 3506.2 | 3720.1 | 3892.6 | 3992.2 | 3678.3 | 3528.2 | 3738.4 | 3457.3 | 3342.0 |
| 50° | 3527.8 | 3830.9 | 4172.5 | 4413.0 | 4434.2 | 3959.8 | 3619.8 | 3813.0 | 3540.2 | 3420.4 |
| 52.5° | 3680.3 | 4090.0 | 4544.9 | 4824.3 | 4783.3 | 4204.9 | 3708.5 | 3863.6 | 3625.6 | 3520.3 |
| 55° | 3813.0 | 4248.8 | 4753.0 | 5021.3 | 4961.2 | 4354.1 | 3804.3 | 3918.3 | 3747.5 | 3658.8 |
| 57.5° | 3887.2 | 4262.1 | 4701.2 | 4935.5 | 4870.4 | 4325.1 | 3848.3 | 3959.0 | 3825.5 | 3755.8 |
| 58° | 3898.0 | 4244.3 | 4655.2 | 4885.7 | 4819.4 | 4300.6 | 3847.9 | 3957.3 | 3830.4 | 3760.4 |
| 60° | 3888.5 | 4128.6 | 4483.9 | 4689.2 | 4619.5 | 4147.2 | 3832.1 | 3926.2 | 3767.4 | 3708.1 |
| 62.5° | 3800.2 | 3927.9 | 4188.3 | 4337.5 | 4317.6 | 3907.6 | 3767.4 | 3808.9 | 3575.4 | 3518.2 |
| 65° | 3684.1 | 3654.2 | 3809.7 | 3915.4 | 3930.4 | 3728.0 | 3703.1 | 3555.1 | 3329.1 | 3248.3 |
| 67.5° | 3543.1 | 3344.1 | 3343.7 | 3403.8 | 3428.7 | 3451.9 | 3569.2 | 3279.4 | 2974.2 | 2888.8 |
| 70° | 3303.8 | 2866.0 | 2734.1 | 2805.0 | 2784.3 | 2980.4 | 3330.0 | 2892.1 | 2546.3 | 2446.4 |
| 72.5° | 2865.2 | 2274.3 | 2063.2 | 2154.5 | 2102.2 | 2337.3 | 2913.7 | 2380.0 | 2105.5 | 1982.8 |
| 75° | 2322.4 | 1701.3 | 1483.6 | 1567.3 | 1535.0 | 1773.0 | 2424.4 | 1728.6 | 1510.1 | 1463.3 |
| 77.5° | 1803.3 | 1232.7 | 1106.3 | 1094.6 | 1118.7 | 1319.4 | 1778.4 | 1167.2 | 995.5 | 963.6 |
| 80° | 1158.5 | 882.4 | 889.8 | 874.9 | 887.3 | 831.8 | 1079.7 | 744.7 | 674.2 | 648.5 |
| 82.5° | 762.5 | 614.9 | 733.1 | 676.7 | 642.7 | 559.3 | 708.2 | 487.6 | 413.8 | 399.7 |
| 85° | 519.5 | 452.8 | 412.2 | 315.1 | 371.1 | 430.8 | 531.2 | 262.5 | 208.1 | 188.7 |
| 87.5° | 234.7 | 157.6 | 115.7 | 71.3 | 112.8 | 130.2 | 257.9 | 30.7 | 23.6 | 24.5 |
| 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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