

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: P647173

Luminaire Tested: **GALN-SA9C-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27589 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

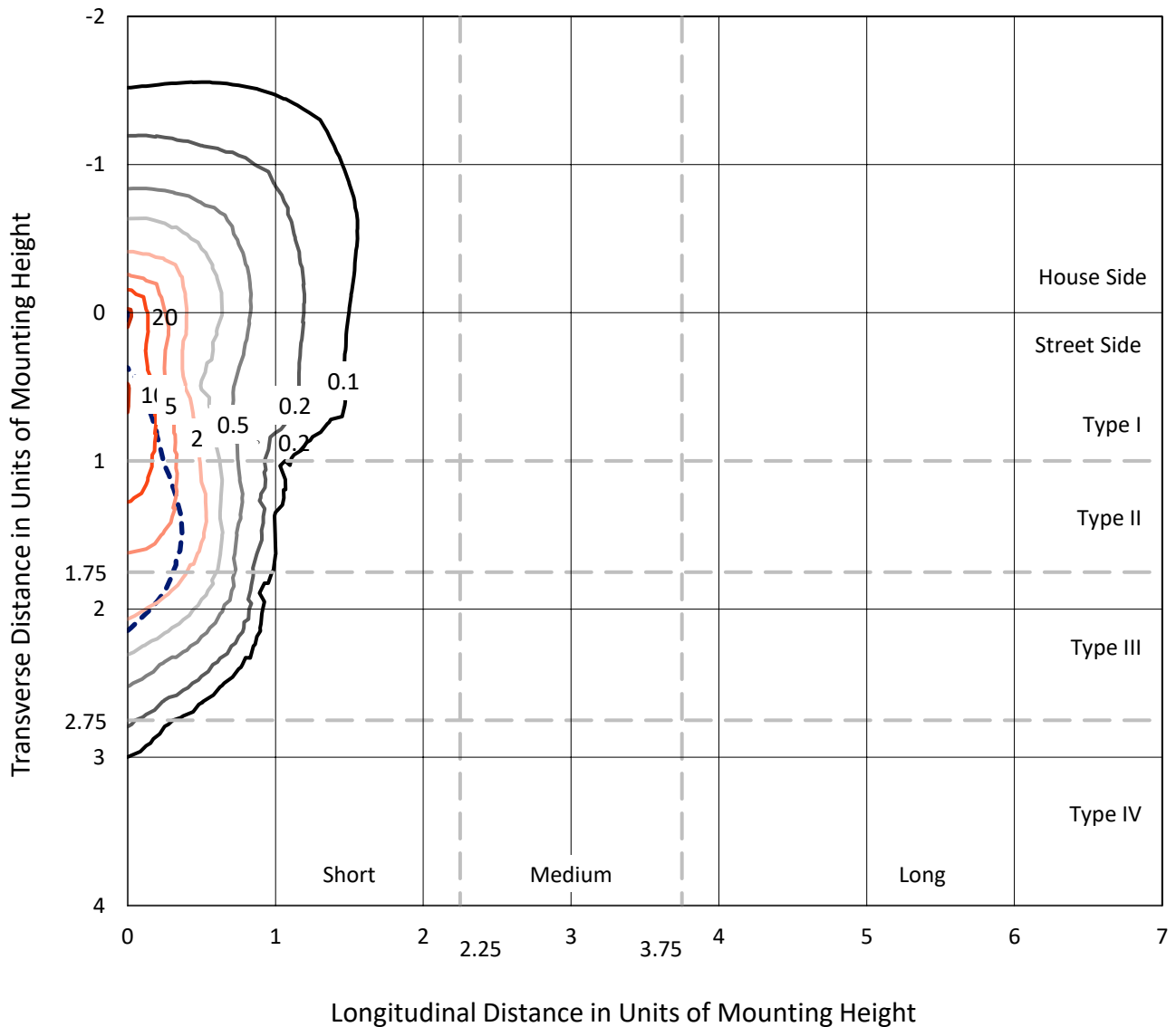
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

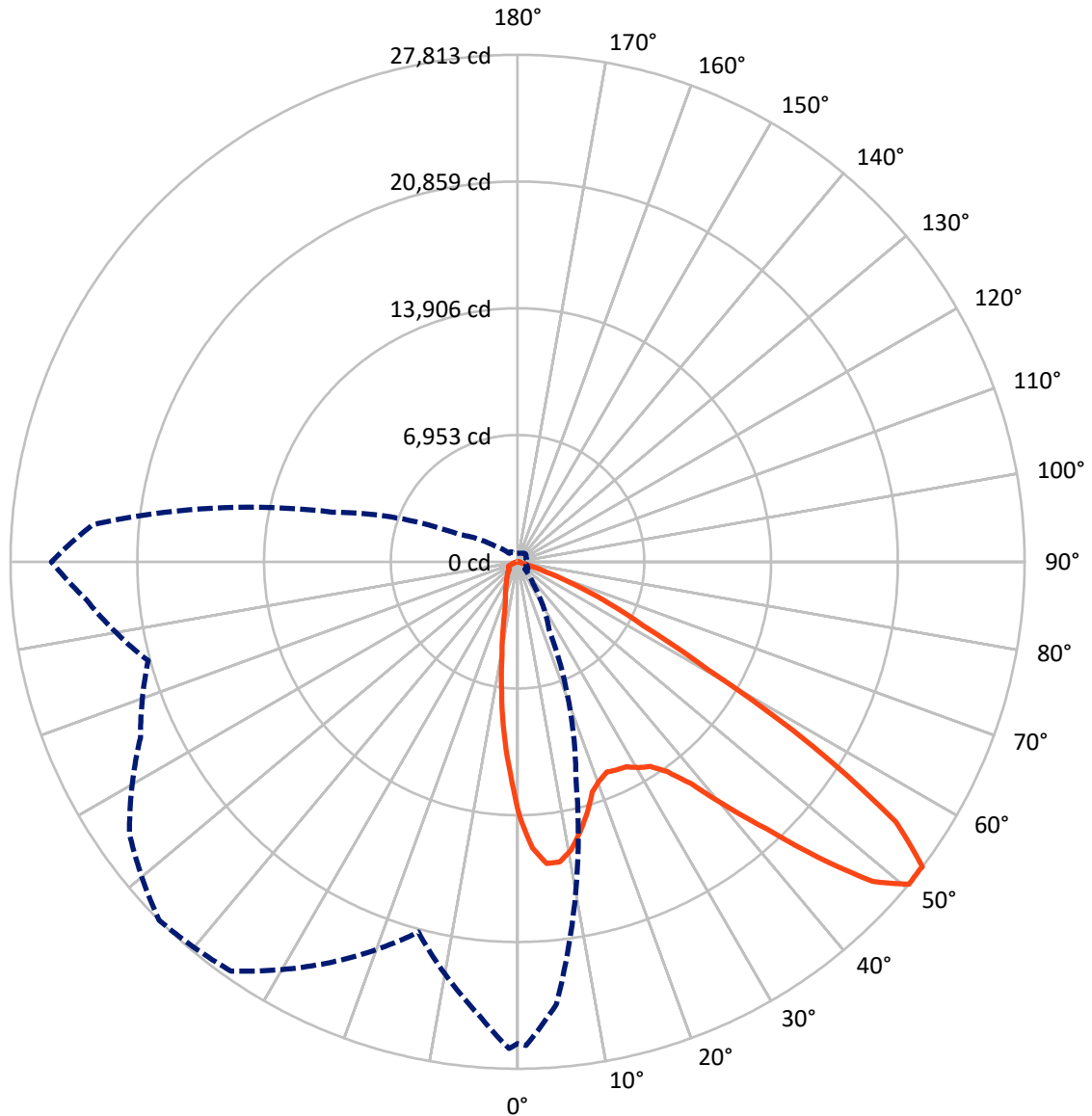
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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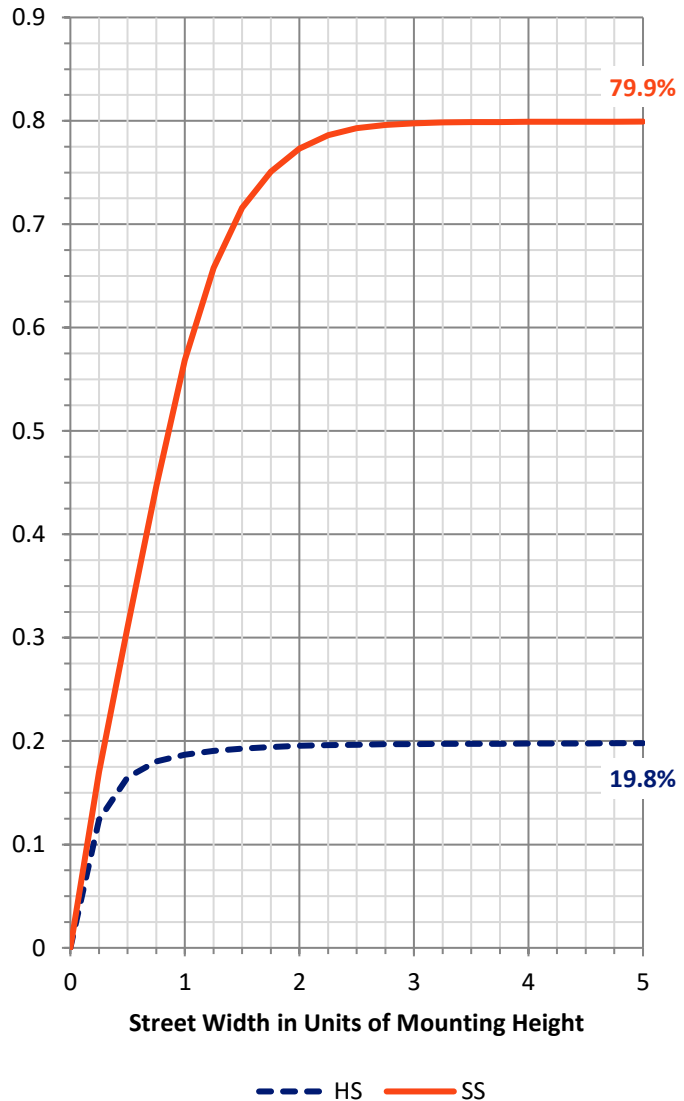
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5526.1 | 0.0 | 5526.1 |
| | % Fixture | 20.0 | 0.0 | 20.0 |
| Street Side | Lumens | 22062.9 | 0.0 | 22062.9 |
| | % Fixture | 80.0 | 0.0 | 80.0 |
| Total | Lumens | 27589.0 | 0.0 | 27589.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1019.8 | 3.7 |
| 10°-20° | 2026.8 | 7.3 |
| 20°-30° | 3044.9 | 11.0 |
| 30°-40° | 4570.3 | 16.6 |
| 40°-50° | 6423.2 | 23.3 |
| 50°-60° | 6928.6 | 25.1 |
| 60°-70° | 3216.9 | 11.7 |
| 70°-80° | 302.7 | 1.1 |
| 80°-90° | 55.8 | 0.2 |
| 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° | 27589.0 | 100.0 |
| 0°-180° | 27589.0 | 100.0 |

Coefficient of Utilization

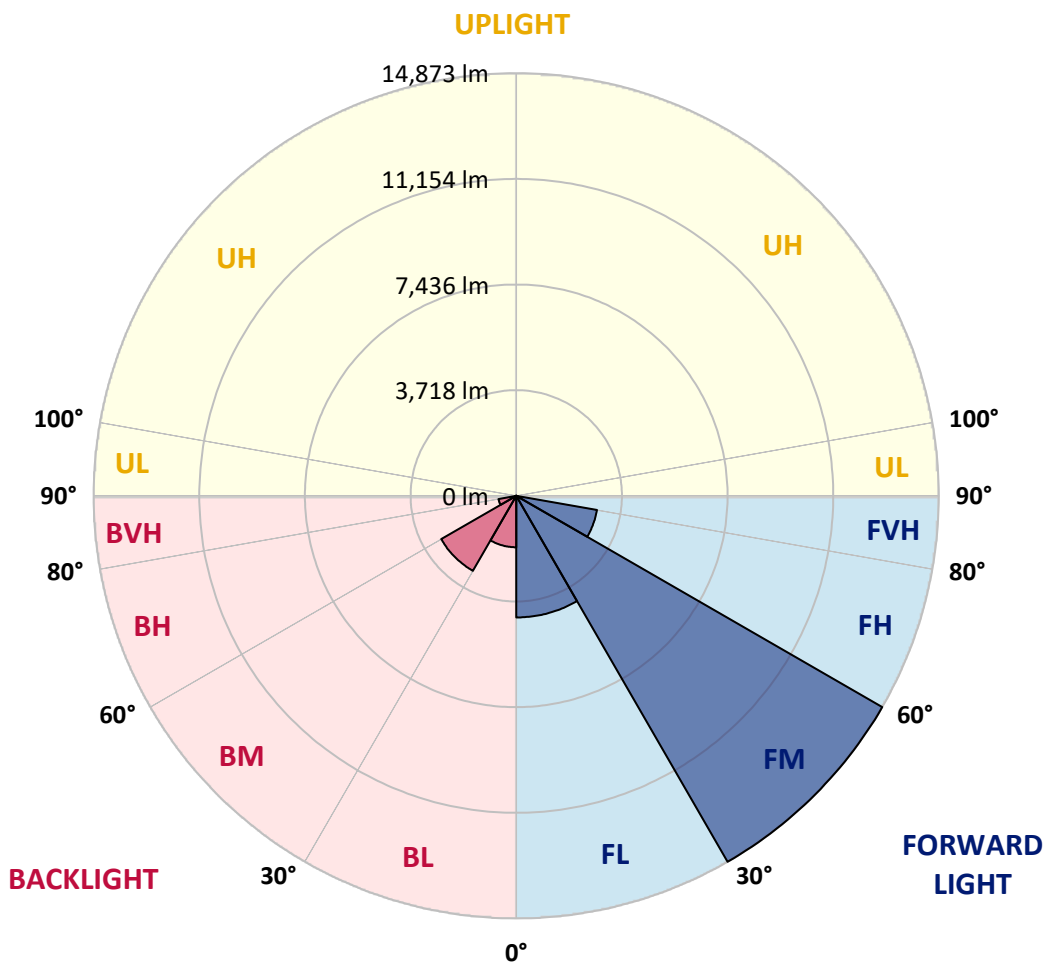


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4280.2 | 15.5 | | | |
| FM (30°-60°) | 14872.5 | 53.9 | | | |
| FH (60°-80°) | 2885.1 | 10.5 | | | G2/5000 |
| FVH (80°-90°) | 25.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1811.3 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 3049.6 | 11.1 | B3/5000 | | |
| BH (60°-80°) | 634.5 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 30.7 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 |
| 2.5° | 14544.0 | 14319.5 | 14034.9 | 13799.5 | 13449.2 | 12743.1 | 12551.5 | 12321.6 | 12130.0 | 11872.7 | 11511.4 |
| 5° | 13224.8 | 13153.6 | 13022.2 | 12135.5 | 11495.1 | 10641.1 | 9940.5 | 9644.9 | 9256.2 | 8938.7 | 8708.8 |
| 7.5° | 12217.6 | 11932.9 | 11516.9 | 10624.7 | 9601.1 | 8687.0 | 7909.7 | 7455.3 | 6940.8 | 6765.7 | 6453.6 |
| 10° | 11139.3 | 11204.9 | 10591.9 | 9338.4 | 8101.2 | 7362.3 | 6880.6 | 6442.7 | 5977.4 | 5670.9 | 5227.5 |
| 12.5° | 10794.4 | 10580.9 | 10110.2 | 8561.1 | 7504.6 | 6814.9 | 6229.2 | 5687.3 | 5194.7 | 4702.0 | 4275.0 |
| 15° | 11018.8 | 10690.4 | 10033.5 | 8396.8 | 7044.8 | 6185.4 | 5452.0 | 4718.4 | 4264.1 | 3634.6 | 3191.3 |
| 17.5° | 11823.5 | 11560.8 | 10679.4 | 8572.0 | 6809.4 | 5583.3 | 4494.0 | 3738.6 | 3043.4 | 2474.2 | 2249.7 |
| 20° | 13164.6 | 12792.3 | 11686.6 | 8796.5 | 6459.1 | 4855.3 | 3645.6 | 2715.1 | 2058.2 | 1817.3 | 1691.4 |
| 22.5° | 14478.3 | 14275.7 | 12879.9 | 9228.9 | 6147.1 | 4209.4 | 2736.9 | 1828.2 | 1538.1 | 1494.4 | 1412.2 |
| 25° | 16979.8 | 16372.2 | 14702.7 | 10011.6 | 5906.2 | 3601.8 | 2063.6 | 1472.4 | 1302.8 | 1269.9 | 1280.9 |
| 27.5° | 18468.7 | 17959.6 | 16388.7 | 10531.7 | 5638.1 | 3136.5 | 1746.2 | 1352.0 | 1237.1 | 1165.9 | 1138.6 |
| 30° | 19897.4 | 19306.2 | 17226.2 | 10838.2 | 5063.3 | 2643.9 | 1549.1 | 1297.3 | 1269.9 | 1165.9 | 1133.1 |
| 32.5° | 20997.6 | 20417.4 | 18435.8 | 11298.0 | 4827.9 | 2326.4 | 1275.4 | 1012.7 | 941.5 | 930.5 | 1029.1 |
| 35° | 22683.5 | 22065.0 | 19470.4 | 11549.8 | 4647.3 | 2162.2 | 1105.7 | 903.2 | 821.1 | 788.2 | 793.7 |
| 37.5° | 24254.5 | 23833.0 | 20428.3 | 11648.3 | 4455.7 | 2112.9 | 990.7 | 810.1 | 739.0 | 717.1 | 711.6 |
| 40° | 25568.2 | 24626.8 | 21337.0 | 11752.3 | 4373.6 | 2019.8 | 919.6 | 739.0 | 689.7 | 656.9 | 656.9 |
| 42.5° | 26170.4 | 25212.4 | 22355.1 | 11692.1 | 4351.7 | 1872.1 | 919.6 | 678.8 | 640.4 | 607.6 | 602.1 |
| 45° | 26039.0 | 25650.4 | 22809.4 | 11664.7 | 4351.7 | 1724.2 | 837.5 | 662.3 | 607.6 | 563.8 | 552.9 |
| 47.5° | 26378.4 | 25869.3 | 23378.7 | 11779.7 | 4264.1 | 1620.3 | 706.1 | 695.1 | 574.7 | 520.0 | 509.0 |
| 50° | 26438.6 | 26537.1 | 24369.5 | 12376.3 | 4072.5 | 1488.9 | 552.9 | 684.3 | 552.9 | 470.7 | 459.8 |
| 52° | 26832.7 | 26219.6 | 24670.5 | 12693.8 | 3870.0 | 1390.4 | 465.3 | 585.7 | 531.0 | 437.9 | 427.0 |
| 52.5° | 26290.8 | 26690.4 | 24741.7 | 12808.8 | 3891.9 | 1324.7 | 448.8 | 574.7 | 520.0 | 437.9 | 410.5 |
| 55° | 25683.2 | 26066.4 | 24451.6 | 13055.1 | 3568.9 | 1040.1 | 350.3 | 416.0 | 470.7 | 383.2 | 366.8 |
| 57.5° | 22322.2 | 22710.9 | 21249.4 | 11954.8 | 2906.6 | 733.5 | 290.1 | 312.0 | 416.0 | 355.8 | 339.4 |
| 60° | 19842.6 | 19563.5 | 17833.8 | 9973.3 | 2063.6 | 410.5 | 229.9 | 240.9 | 454.3 | 328.5 | 323.0 |
| 62.5° | 18134.8 | 17538.2 | 14905.3 | 7701.7 | 1259.0 | 273.7 | 180.6 | 186.1 | 350.3 | 306.5 | 306.5 |
| 65° | 13416.3 | 12748.6 | 9902.1 | 4658.2 | 618.6 | 191.6 | 136.9 | 147.8 | 218.9 | 262.8 | 262.8 |
| 67.5° | 7657.9 | 7400.6 | 4784.1 | 2102.0 | 257.3 | 120.4 | 104.0 | 114.9 | 169.7 | 213.4 | 202.6 |
| 70° | 3519.7 | 3158.4 | 1839.2 | 443.4 | 120.4 | 82.1 | 82.1 | 93.0 | 136.9 | 158.7 | 147.8 |
| 72.5° | 1029.1 | 974.4 | 448.8 | 71.2 | 49.3 | 49.3 | 54.7 | 71.2 | 104.0 | 120.4 | 109.5 |
| 75° | 76.7 | 49.3 | 32.8 | 21.9 | 21.9 | 32.8 | 43.8 | 71.2 | 104.0 | 114.9 | 93.0 |
| 77.5° | 5.5 | 11.0 | 5.5 | 5.5 | 16.4 | 32.8 | 49.3 | 87.6 | 136.9 | 142.3 | 104.0 |
| 80° | 5.5 | 5.5 | 0.0 | 5.5 | 16.4 | 32.8 | 54.7 | 98.5 | 153.2 | 164.2 | 87.6 |
| 82.5° | 0.0 | 0.0 | 0.0 | 5.5 | 21.9 | 43.8 | 65.7 | 104.0 | 142.3 | 175.2 | 93.0 |
| 85° | 0.0 | 0.0 | 0.0 | 5.5 | 32.8 | 60.2 | 76.7 | 27.4 | 16.4 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 |
| 2.5° | 11768.7 | 11626.4 | 11571.6 | 11621.0 | 11604.5 | 11588.1 | 11889.2 | 11823.5 | 11812.5 | 11911.1 | 11889.2 |
| 5° | 8834.7 | 8582.9 | 9272.7 | 8993.5 | 9283.6 | 9458.8 | 9491.6 | 9508.0 | 9710.5 | 9497.1 | 9776.2 |
| 7.5° | 6294.9 | 6360.6 | 6355.1 | 6541.3 | 6875.1 | 7170.7 | 7345.9 | 7209.0 | 7198.1 | 7170.7 | 7050.3 |
| 10° | 5030.5 | 4915.5 | 4893.6 | 4849.8 | 4953.8 | 5205.6 | 5419.1 | 5249.4 | 5129.0 | 5293.2 | 5243.9 |
| 12.5° | 4110.8 | 3952.1 | 3864.5 | 3689.3 | 3694.8 | 3864.5 | 3864.5 | 3864.5 | 3984.9 | 4078.0 | 4149.2 |
| 15° | 3152.9 | 3021.5 | 3021.5 | 2846.4 | 2808.1 | 2813.6 | 2901.1 | 2912.1 | 3103.7 | 3158.4 | 3185.8 |
| 17.5° | 2205.9 | 2134.8 | 2216.9 | 2288.1 | 2244.2 | 2255.2 | 2288.1 | 2299.0 | 2326.4 | 2304.4 | 2359.3 |
| 20° | 1696.9 | 1686.0 | 1707.8 | 1833.7 | 1926.8 | 1981.5 | 1943.2 | 1888.4 | 1855.6 | 1779.0 | 1779.0 |
| 22.5° | 1439.6 | 1461.5 | 1499.8 | 1603.8 | 1724.2 | 1757.1 | 1713.3 | 1587.4 | 1488.9 | 1477.9 | 1483.4 |
| 25° | 1280.9 | 1302.8 | 1363.0 | 1428.7 | 1494.4 | 1549.1 | 1505.3 | 1412.2 | 1357.5 | 1308.2 | 1308.2 |
| 27.5° | 1182.3 | 1193.3 | 1226.1 | 1275.4 | 1330.2 | 1373.9 | 1357.5 | 1308.2 | 1248.0 | 1226.1 | 1176.8 |
| 30° | 1105.7 | 1122.1 | 1160.5 | 1171.4 | 1220.7 | 1242.5 | 1215.2 | 1204.3 | 1165.9 | 1138.6 | 1122.1 |
| 32.5° | 1067.4 | 1061.9 | 1089.3 | 1100.3 | 1105.7 | 1122.1 | 1089.3 | 1105.7 | 1100.3 | 1056.4 | 1040.1 |
| 35° | 804.7 | 848.5 | 919.6 | 979.8 | 996.2 | 1018.1 | 1012.7 | 990.7 | 930.5 | 881.3 | 821.1 |
| 37.5° | 722.6 | 749.9 | 788.2 | 837.5 | 903.2 | 930.5 | 919.6 | 864.9 | 793.7 | 760.8 | 749.9 |
| 40° | 667.8 | 684.3 | 717.1 | 749.9 | 815.6 | 864.9 | 826.5 | 777.3 | 722.6 | 695.1 | 678.8 |
| 42.5° | 618.6 | 624.1 | 640.4 | 673.3 | 722.6 | 799.2 | 733.5 | 667.8 | 645.9 | 629.5 | 618.6 |
| 45° | 563.8 | 563.8 | 585.7 | 602.1 | 656.9 | 728.0 | 662.3 | 602.1 | 591.2 | 580.2 | 574.7 |
| 47.5° | 520.0 | 525.5 | 536.4 | 558.4 | 602.1 | 651.4 | 607.6 | 558.4 | 531.0 | 525.5 | 514.5 |
| 50° | 465.3 | 470.7 | 492.7 | 514.5 | 569.2 | 596.6 | 569.2 | 514.5 | 487.2 | 470.7 | 470.7 |
| 52° | 421.5 | 437.9 | 459.8 | 503.6 | 541.9 | 585.7 | 552.9 | 492.7 | 459.8 | 443.4 | 432.5 |
| 52.5° | 416.0 | 427.0 | 448.8 | 498.1 | 541.9 | 580.2 | 547.4 | 487.2 | 448.8 | 437.9 | 427.0 |
| 55° | 372.2 | 388.6 | 427.0 | 487.2 | 536.4 | 580.2 | 536.4 | 481.7 | 427.0 | 399.6 | 388.6 |
| 57.5° | 355.8 | 366.8 | 416.0 | 492.7 | 531.0 | 580.2 | 536.4 | 481.7 | 427.0 | 377.7 | 366.8 |
| 60° | 339.4 | 361.3 | 416.0 | 476.2 | 525.5 | 585.7 | 541.9 | 476.2 | 416.0 | 355.8 | 355.8 |
| 62.5° | 323.0 | 339.4 | 410.5 | 465.3 | 503.6 | 563.8 | 520.0 | 465.3 | 399.6 | 339.4 | 333.9 |
| 65° | 279.1 | 306.5 | 361.3 | 388.6 | 432.5 | 487.2 | 443.4 | 405.0 | 350.3 | 301.1 | 295.6 |
| 67.5° | 213.4 | 224.4 | 268.3 | 301.1 | 328.5 | 377.7 | 355.8 | 306.5 | 268.3 | 229.9 | 229.9 |
| 70° | 147.8 | 158.7 | 191.6 | 208.0 | 235.4 | 262.8 | 246.3 | 208.0 | 180.6 | 158.7 | 153.2 |
| 72.5° | 104.0 | 109.5 | 120.4 | 131.4 | 142.3 | 153.2 | 147.8 | 120.4 | 104.0 | 98.5 | 93.0 |
| 75° | 82.1 | 93.0 | 98.5 | 93.0 | 87.6 | 82.1 | 82.1 | 71.2 | 60.2 | 54.7 | 54.7 |
| 77.5° | 82.1 | 87.6 | 82.1 | 71.2 | 60.2 | 54.7 | 49.3 | 43.8 | 32.8 | 27.4 | 32.8 |
| 80° | 71.2 | 71.2 | 71.2 | 60.2 | 54.7 | 49.3 | 43.8 | 38.3 | 32.8 | 27.4 | 27.4 |
| 82.5° | 76.7 | 76.7 | 71.2 | 60.2 | 60.2 | 49.3 | 49.3 | 43.8 | 38.3 | 27.4 | 27.4 |
| 85° | 0.0 | 0.0 | 0.0 | 11.0 | 27.4 | 49.3 | 49.3 | 43.8 | 38.3 | 32.8 | 32.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 | 11.0 | 21.9 | 27.4 | 32.8 | 32.8 | 32.8 |
| 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-SA9C-835-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 | 13991.1 |
| 2.5° | 12086.2 | 12294.2 | 12688.4 | 13082.4 | 13323.3 | 13607.9 | 14122.5 | 14396.2 | 14752.0 | 14927.1 | 15271.9 |
| 5° | 9737.9 | 10230.6 | 10405.8 | 10854.6 | 11336.3 | 11818.0 | 12584.3 | 13427.3 | 14128.0 | 14609.7 | 15233.7 |
| 7.5° | 7105.0 | 7220.0 | 7898.7 | 8199.8 | 8988.1 | 9863.8 | 10909.3 | 11971.3 | 12858.0 | 13646.3 | 14122.5 |
| 10° | 5326.0 | 5747.5 | 6174.5 | 6749.2 | 7384.2 | 8287.4 | 9289.1 | 10460.5 | 11610.0 | 12398.3 | 13000.3 |
| 12.5° | 4280.5 | 4614.5 | 5183.7 | 5802.3 | 6585.0 | 7181.7 | 8188.8 | 9349.3 | 10838.2 | 11610.0 | 12403.7 |
| 15° | 3240.5 | 3667.5 | 4313.4 | 4953.8 | 5780.3 | 6409.9 | 7428.0 | 8889.5 | 10805.3 | 11867.2 | 12551.5 |
| 17.5° | 2403.0 | 2693.1 | 3273.3 | 3990.4 | 4833.4 | 5720.1 | 7094.1 | 8840.2 | 11172.1 | 12436.5 | 13142.7 |
| 20° | 1839.2 | 1937.8 | 2304.4 | 2944.9 | 3859.0 | 5019.5 | 6552.1 | 9053.7 | 12255.9 | 13821.4 | 14538.5 |
| 22.5° | 1488.9 | 1532.6 | 1675.0 | 2118.4 | 3005.2 | 4406.4 | 6294.9 | 9201.5 | 13476.5 | 15480.0 | 16437.9 |
| 25° | 1297.3 | 1286.3 | 1379.4 | 1571.0 | 2348.3 | 3831.7 | 5966.5 | 9759.9 | 14970.9 | 17428.6 | 18288.1 |
| 27.5° | 1182.3 | 1182.3 | 1226.1 | 1363.0 | 1948.7 | 3459.5 | 5758.5 | 10159.4 | 16476.2 | 19142.0 | 19607.3 |
| 30° | 1122.1 | 1133.1 | 1259.0 | 1302.8 | 1620.3 | 3016.1 | 5413.6 | 10564.5 | 17915.8 | 20236.7 | 20877.2 |
| 32.5° | 1040.1 | 996.2 | 968.9 | 1078.3 | 1363.0 | 2616.5 | 5068.8 | 10734.1 | 19081.8 | 21577.8 | 22125.2 |
| 35° | 799.2 | 777.3 | 810.1 | 892.2 | 1171.4 | 2277.1 | 4685.6 | 10925.7 | 20422.8 | 23132.4 | 23241.9 |
| 37.5° | 722.6 | 717.1 | 739.0 | 810.1 | 985.3 | 1981.5 | 4411.9 | 10876.5 | 21446.4 | 24418.7 | 24123.1 |
| 40° | 667.8 | 667.8 | 684.3 | 744.5 | 881.3 | 1773.5 | 4127.3 | 10832.7 | 22437.3 | 25863.8 | 24999.0 |
| 42.5° | 624.1 | 624.1 | 651.4 | 689.7 | 837.5 | 1636.7 | 3913.8 | 10772.5 | 23269.3 | 26750.6 | 25513.5 |
| 45° | 563.8 | 580.2 | 624.1 | 662.3 | 848.5 | 1543.6 | 3755.0 | 10542.6 | 23553.9 | 26739.7 | 25267.2 |
| 47.5° | 520.0 | 541.9 | 585.7 | 640.4 | 766.3 | 1516.3 | 3645.6 | 10340.1 | 23455.3 | 26082.8 | 24495.4 |
| 50° | 470.7 | 498.1 | 558.4 | 651.4 | 651.4 | 1461.5 | 3530.6 | 10520.7 | 23384.2 | 25573.7 | 23756.4 |
| 52° | 437.9 | 459.8 | 536.4 | 634.9 | 569.2 | 1346.5 | 3459.5 | 10871.0 | 23674.3 | 25508.0 | 23428.0 |
| 52.5° | 432.5 | 448.8 | 520.0 | 624.1 | 541.9 | 1324.7 | 3410.2 | 10953.2 | 23767.3 | 25343.8 | 23652.4 |
| 55° | 383.2 | 405.0 | 476.2 | 487.2 | 443.4 | 1089.3 | 3251.5 | 11139.3 | 23307.6 | 25020.8 | 23438.9 |
| 57.5° | 361.3 | 372.2 | 421.5 | 399.6 | 383.2 | 821.1 | 2797.1 | 10849.1 | 20702.1 | 22223.7 | 21807.7 |
| 60° | 333.9 | 344.8 | 394.1 | 312.0 | 323.0 | 574.7 | 2102.0 | 9420.4 | 16624.0 | 18518.0 | 19267.9 |
| 62.5° | 323.0 | 317.5 | 372.2 | 251.8 | 273.7 | 416.0 | 1483.4 | 7657.9 | 12808.8 | 15244.6 | 16541.9 |
| 65° | 284.6 | 279.1 | 268.3 | 213.4 | 235.4 | 323.0 | 886.7 | 4997.6 | 9026.3 | 11533.4 | 12244.9 |
| 67.5° | 218.9 | 229.9 | 197.1 | 169.7 | 197.1 | 251.8 | 492.7 | 2238.8 | 4734.9 | 6918.9 | 7493.7 |
| 70° | 153.2 | 164.2 | 158.7 | 147.8 | 175.2 | 208.0 | 284.6 | 766.3 | 1959.6 | 3634.6 | 4006.8 |
| 72.5° | 93.0 | 114.9 | 120.4 | 125.9 | 153.2 | 180.6 | 202.6 | 246.3 | 520.0 | 1286.3 | 1598.3 |
| 75° | 54.7 | 76.7 | 93.0 | 109.5 | 125.9 | 153.2 | 169.7 | 175.2 | 180.6 | 240.9 | 388.6 |
| 77.5° | 38.3 | 54.7 | 82.1 | 104.0 | 125.9 | 153.2 | 180.6 | 191.6 | 180.6 | 169.7 | 180.6 |
| 80° | 32.8 | 54.7 | 76.7 | 98.5 | 131.4 | 158.7 | 180.6 | 180.6 | 175.2 | 153.2 | 164.2 |
| 82.5° | 32.8 | 54.7 | 82.1 | 104.0 | 125.9 | 153.2 | 175.2 | 180.6 | 164.2 | 153.2 | 158.7 |
| 85° | 38.3 | 60.2 | 87.6 | 109.5 | 136.9 | 125.9 | 114.9 | 93.0 | 87.6 | 71.2 | 76.7 |
| 87.5° | 38.3 | 54.7 | 54.7 | 60.2 | 65.7 | 65.7 | 65.7 | 60.2 | 49.3 | 43.8 | 43.8 |
| 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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| 2.5° | 15288.4 | 15726.3 | 15709.9 | 15720.8 | 15655.1 | 15211.7 | 14998.3 | 14456.4 | 14609.7 | 14544.0 |
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| 15° | 13394.5 | 13914.5 | 14023.9 | 14292.2 | 14396.2 | 13925.4 | 12879.9 | 11774.2 | 11046.2 | 11018.8 |
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| 20° | 14456.4 | 13514.9 | 12611.7 | 12814.3 | 13087.9 | 14128.0 | 14407.1 | 13794.0 | 13389.0 | 13164.6 |
| 22.5° | 15217.2 | 13629.8 | 12431.1 | 12529.6 | 13049.6 | 14571.3 | 15896.0 | 15556.6 | 14801.2 | 14478.3 |
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| 27.5° | 17998.0 | 14768.4 | 12885.4 | 12737.6 | 13503.9 | 15792.0 | 18058.2 | 19410.2 | 18621.9 | 18468.7 |
| 30° | 18698.6 | 15436.2 | 13350.7 | 13098.9 | 14138.9 | 16158.8 | 18550.8 | 20658.2 | 19968.5 | 19897.4 |
| 32.5° | 19771.5 | 16043.8 | 13712.0 | 13389.0 | 14494.7 | 16613.1 | 19470.4 | 22021.2 | 21353.4 | 20997.6 |
| 35° | 20220.3 | 16706.1 | 14505.6 | 14128.0 | 15512.8 | 17248.0 | 19941.1 | 23236.4 | 23028.4 | 22683.5 |
| 37.5° | 21085.2 | 17417.8 | 15441.7 | 15419.8 | 16744.5 | 18074.6 | 20789.6 | 24889.5 | 24851.2 | 24254.5 |
| 40° | 21156.3 | 18195.0 | 16919.6 | 17609.3 | 18649.3 | 19514.2 | 21534.1 | 25349.3 | 25973.3 | 25568.2 |
| 42.5° | 21265.8 | 19558.0 | 19475.9 | 20045.2 | 20937.4 | 20751.3 | 21561.4 | 25458.8 | 26411.2 | 26170.4 |
| 45° | 21315.1 | 20921.0 | 22076.0 | 23126.9 | 23499.2 | 22371.6 | 21304.1 | 25250.7 | 26641.1 | 26039.0 |
| 47.5° | 20921.0 | 22092.3 | 24177.9 | 26208.7 | 26318.2 | 23367.8 | 21194.6 | 25037.3 | 26778.0 | 26378.4 |
| 50° | 20975.7 | 22825.9 | 25995.2 | 27812.6 | 27412.9 | 24249.0 | 21025.0 | 24905.9 | 26706.8 | 26438.6 |
| 52° | 20844.3 | 22842.3 | 26252.5 | 27779.7 | 27500.5 | 23761.9 | 20734.9 | 24402.4 | 26641.1 | 26832.7 |
| 52.5° | 20992.2 | 22743.7 | 25984.2 | 27801.6 | 27440.3 | 24002.7 | 20696.6 | 24681.5 | 26679.5 | 26290.8 |
| 55° | 20483.0 | 21572.4 | 24413.2 | 25185.1 | 25130.3 | 21785.8 | 19519.6 | 23756.4 | 25677.7 | 25683.2 |
| 57.5° | 18512.5 | 18698.6 | 19147.5 | 19131.0 | 18879.2 | 17127.6 | 16695.2 | 21846.0 | 22891.6 | 22322.2 |
| 60° | 16312.0 | 13690.1 | 12480.3 | 11987.7 | 11708.5 | 11423.9 | 14768.4 | 19985.0 | 20083.5 | 19842.6 |
| 62.5° | 14095.1 | 9491.6 | 7882.3 | 7745.4 | 7811.1 | 8851.2 | 14275.7 | 19246.0 | 18654.8 | 18134.8 |
| 65° | 11374.6 | 6918.9 | 5725.6 | 5545.0 | 6185.4 | 7307.6 | 11555.3 | 14757.4 | 13848.8 | 13416.3 |
| 67.5° | 7143.3 | 5046.9 | 3870.0 | 3530.6 | 4302.4 | 5030.5 | 7592.2 | 9272.7 | 8254.5 | 7657.9 |
| 70° | 4236.7 | 2819.0 | 1751.6 | 1571.0 | 1768.0 | 2682.2 | 4253.2 | 4625.4 | 3826.2 | 3519.7 |
| 72.5° | 1669.5 | 1034.6 | 487.2 | 416.0 | 432.5 | 941.5 | 1565.5 | 1527.2 | 1155.0 | 1029.1 |
| 75° | 448.8 | 312.0 | 169.7 | 136.9 | 114.9 | 175.2 | 251.8 | 164.2 | 60.2 | 76.7 |
| 77.5° | 208.0 | 186.1 | 147.8 | 114.9 | 87.6 | 65.7 | 32.8 | 11.0 | 11.0 | 5.5 |
| 80° | 180.6 | 158.7 | 136.9 | 114.9 | 87.6 | 54.7 | 27.4 | 5.5 | 5.5 | 5.5 |
| 82.5° | 169.7 | 147.8 | 125.9 | 104.0 | 82.1 | 54.7 | 27.4 | 5.5 | 0.0 | 0.0 |
| 85° | 71.2 | 93.0 | 104.0 | 98.5 | 87.6 | 54.7 | 27.4 | 5.5 | 0.0 | 0.0 |
| 87.5° | 38.3 | 32.8 | 27.4 | 21.9 | 16.4 | 11.0 | 11.0 | 0.0 | 0.0 | 0.0 |
| 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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