

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: P647282

Luminaire Tested: **GALN-SA2D-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10500 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

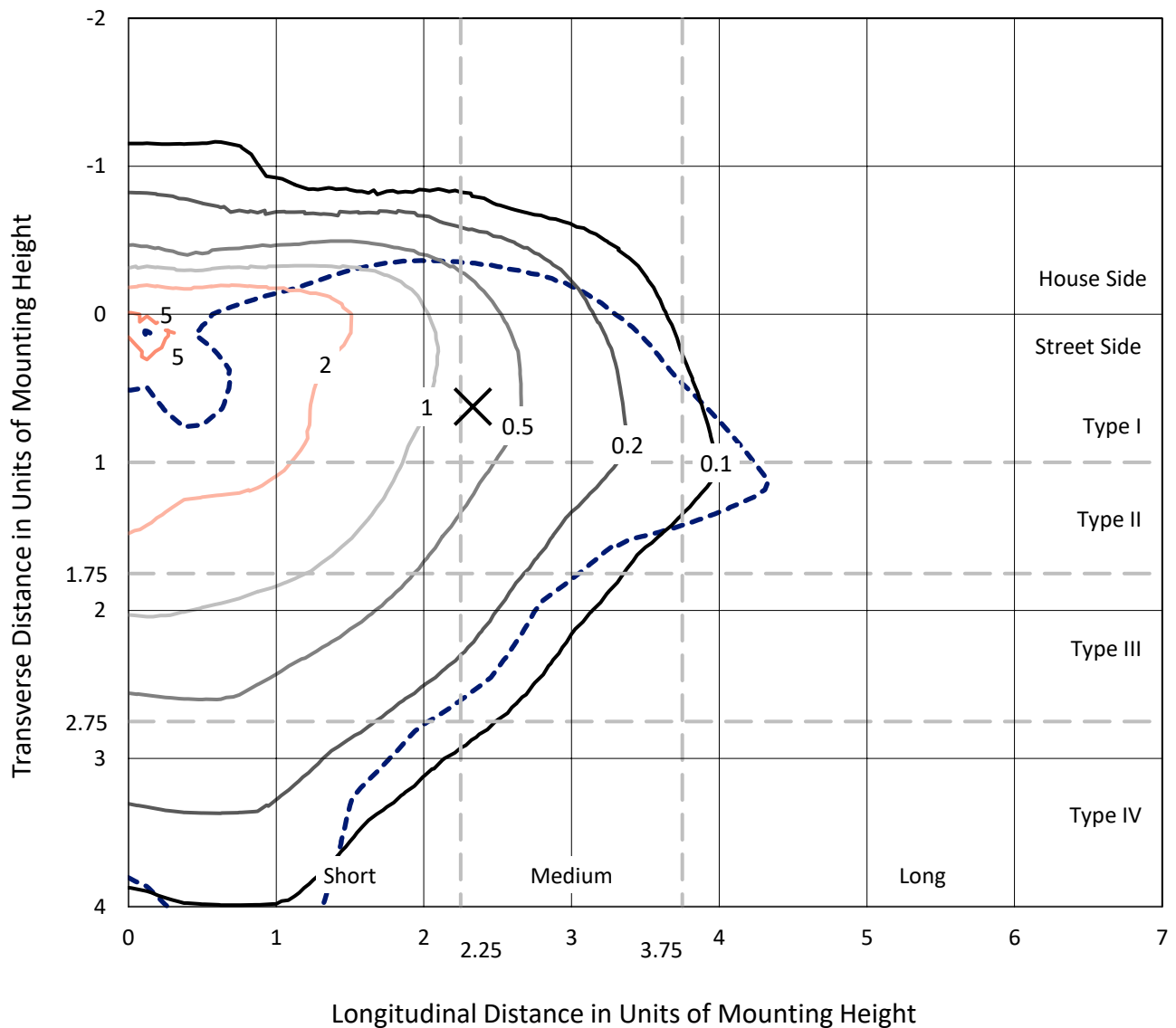
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

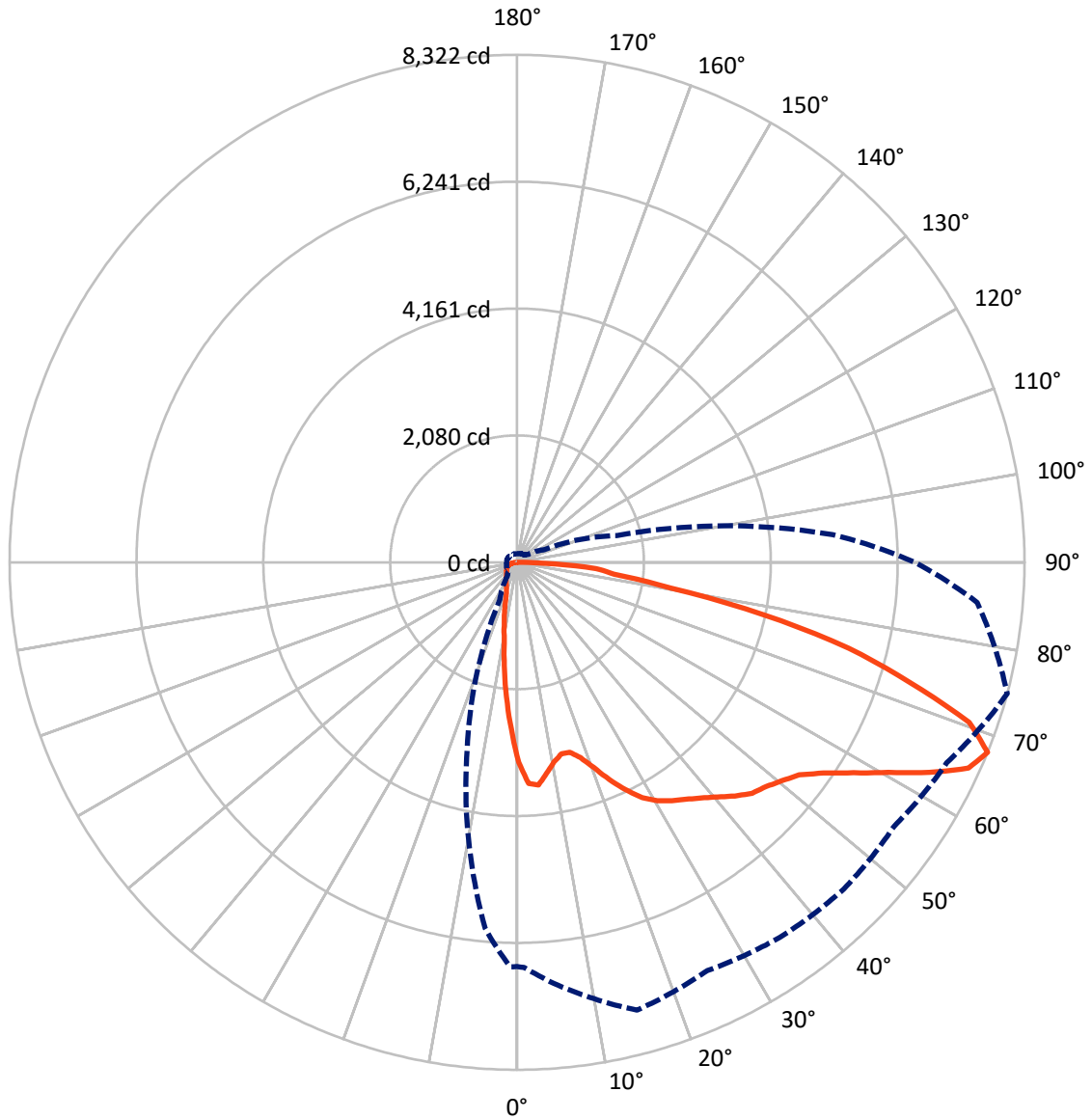
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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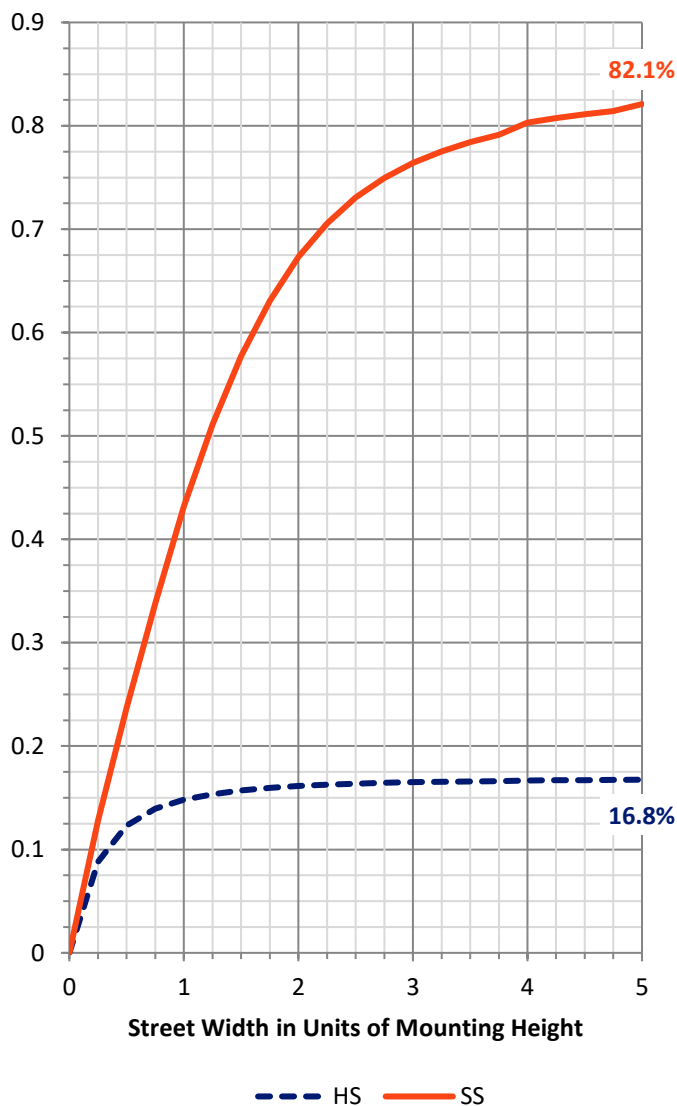
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1774.7 | 0.0 | 1774.7 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 8725.3 | 0.0 | 8725.3 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 10500.0 | 0.0 | 10500.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 248.8 | 2.4 |
| 10°-20° | 518.9 | 4.9 |
| 20°-30° | 746.7 | 7.1 |
| 30°-40° | 1075.5 | 10.2 |
| 40°-50° | 1510.8 | 14.4 |
| 50°-60° | 2107.0 | 20.1 |
| 60°-70° | 2505.1 | 23.9 |
| 70°-80° | 1475.3 | 14.1 |
| 80°-90° | 312.0 | 3.0 |
| 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° | 10500.0 | 100.0 |
| 0°-180° | 10500.0 | 100.0 |

Coefficient of Utilization

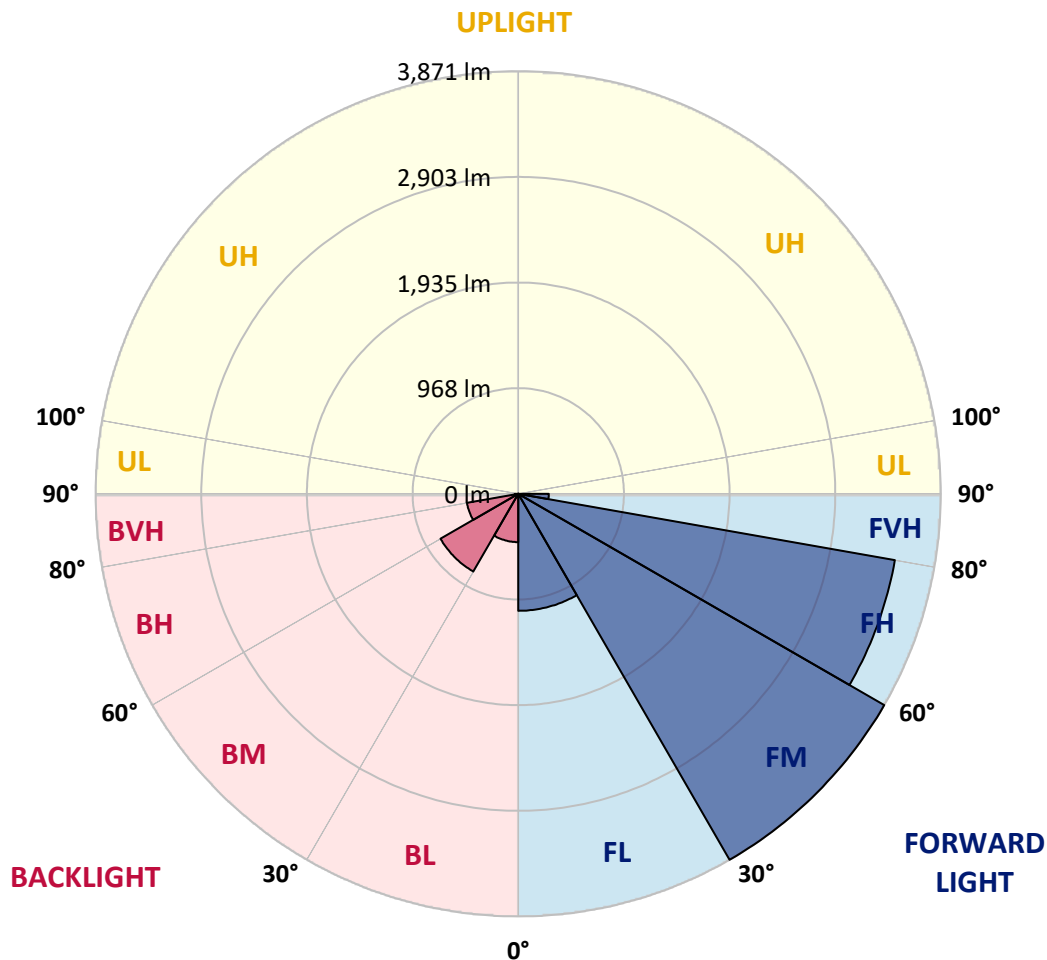


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1071.8 | 10.2 | | | |
| FM (30°-60°) | 3871.0 | 36.9 | | | |
| FH (60°-80°) | 3502.8 | 33.4 | | | G2/5000 |
| FVH (80°-90°) | 279.7 | 2.7 | | | G3/500 |
| BL (0°-30°) | 442.7 | 4.2 | B1/500 | | |
| BM (30°-60°) | 822.2 | 7.8 | B1/1000 | | |
| BH (60°-80°) | 477.5 | 4.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 32.3 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 |
| 2.5° | 3537.0 | 3541.7 | 3572.0 | 3660.2 | 3720.8 | 3743.1 | 3758.6 | 3729.6 | 3701.3 | 3632.6 | 3528.9 |
| 5° | 3526.2 | 3553.8 | 3632.6 | 3830.6 | 3986.8 | 4054.1 | 4074.3 | 3987.4 | 3844.1 | 3667.7 | 3455.5 |
| 7.5° | 3320.2 | 3357.2 | 3478.4 | 3810.4 | 4085.8 | 4243.3 | 4222.4 | 4065.6 | 3807.0 | 3492.6 | 3196.3 |
| 10° | 3075.8 | 3116.8 | 3262.9 | 3664.3 | 4019.1 | 4235.9 | 4235.9 | 4044.7 | 3701.3 | 3327.6 | 2986.2 |
| 12.5° | 2881.8 | 2925.0 | 3091.9 | 3514.1 | 3880.4 | 4085.8 | 4120.1 | 3955.8 | 3625.2 | 3223.2 | 2848.2 |
| 15° | 2817.9 | 2859.6 | 3039.4 | 3423.2 | 3733.6 | 3858.9 | 3870.3 | 3816.4 | 3588.2 | 3230.7 | 2842.1 |
| 17.5° | 2897.3 | 2951.2 | 3133.0 | 3450.1 | 3599.0 | 3606.3 | 3615.1 | 3657.5 | 3592.2 | 3366.0 | 2964.7 |
| 20° | 3126.9 | 3184.9 | 3374.7 | 3537.0 | 3481.1 | 3404.3 | 3409.0 | 3518.2 | 3640.0 | 3589.5 | 3257.6 |
| 22.5° | 3458.2 | 3508.7 | 3703.3 | 3689.8 | 3431.3 | 3273.0 | 3240.1 | 3392.3 | 3710.7 | 3868.3 | 3569.3 |
| 25° | 3815.7 | 3875.0 | 4098.5 | 3916.7 | 3445.4 | 3195.0 | 3174.0 | 3318.2 | 3784.1 | 4128.8 | 3929.6 |
| 27.5° | 4225.1 | 4283.0 | 4459.4 | 4145.7 | 3519.5 | 3188.9 | 3163.9 | 3311.5 | 3850.1 | 4369.9 | 4273.6 |
| 30° | 4529.5 | 4582.7 | 4702.5 | 4338.3 | 3610.4 | 3229.2 | 3198.3 | 3364.6 | 3906.6 | 4534.9 | 4609.0 |
| 32.5° | 4768.5 | 4823.7 | 4889.1 | 4458.1 | 3730.2 | 3302.7 | 3245.5 | 3461.6 | 3980.7 | 4660.8 | 4857.4 |
| 35° | 5017.6 | 5082.9 | 5078.2 | 4564.5 | 3842.0 | 3387.5 | 3331.7 | 3601.6 | 4097.2 | 4770.5 | 5172.5 |
| 37.5° | 5333.4 | 5359.7 | 5326.0 | 4660.1 | 3976.0 | 3540.3 | 3509.4 | 3809.7 | 4262.8 | 4903.1 | 5540.8 |
| 40° | 5654.0 | 5706.4 | 5533.4 | 4775.9 | 4138.9 | 3827.9 | 3824.5 | 4117.4 | 4459.4 | 5058.7 | 5897.7 |
| 42.5° | 5928.6 | 5973.1 | 5727.3 | 4876.9 | 4336.3 | 4178.7 | 4204.2 | 4530.1 | 4717.3 | 5239.2 | 6184.5 |
| 45° | 6135.4 | 6175.1 | 5906.4 | 4974.6 | 4596.1 | 4584.0 | 4734.9 | 4972.5 | 5042.6 | 5401.4 | 6352.9 |
| 47.5° | 6311.1 | 6349.5 | 6031.0 | 5122.7 | 4917.3 | 5068.1 | 5330.7 | 5433.8 | 5320.6 | 5494.4 | 6541.4 |
| 50° | 6459.3 | 6470.7 | 6116.5 | 5299.1 | 5315.9 | 5661.3 | 5915.9 | 5982.5 | 5595.4 | 5627.7 | 6705.0 |
| 52.5° | 6613.5 | 6598.7 | 6264.0 | 5521.3 | 5746.8 | 6224.2 | 6409.4 | 6478.8 | 5858.6 | 5792.0 | 6943.3 |
| 55° | 6958.8 | 6973.0 | 6594.6 | 5801.4 | 6182.5 | 6777.0 | 7020.8 | 6954.1 | 6150.2 | 6094.3 | 7246.4 |
| 57.5° | 7376.3 | 7364.2 | 7059.8 | 6239.7 | 6626.2 | 7291.5 | 7473.3 | 7366.2 | 6539.4 | 6509.7 | 7553.4 |
| 60° | 7538.6 | 7554.8 | 7449.1 | 6711.1 | 7063.9 | 7741.9 | 7927.8 | 7761.5 | 7006.0 | 6992.5 | 7785.1 |
| 62.5° | 7375.6 | 7466.5 | 7537.9 | 7130.5 | 7436.9 | 8073.2 | 8257.7 | 8067.8 | 7492.8 | 7590.4 | 7947.3 |
| 65° | 7051.1 | 7070.6 | 7313.7 | 7486.1 | 7616.7 | 8127.8 | 8224.0 | 8123.1 | 7899.5 | 8135.1 | 7939.9 |
| 67.5° | 6629.6 | 6646.4 | 6931.3 | 7602.5 | 7385.1 | 7508.3 | 7575.6 | 7546.0 | 7773.5 | 8321.6 | 7574.3 |
| 70° | 6228.3 | 6214.8 | 6515.8 | 7305.6 | 6429.0 | 6241.8 | 6297.7 | 6204.7 | 6707.7 | 7865.9 | 6857.2 |
| 72.5° | 5447.3 | 5495.7 | 5818.9 | 6480.1 | 5090.4 | 4786.0 | 4907.9 | 4667.5 | 5159.0 | 6736.6 | 5565.7 |
| 75° | 4266.9 | 4278.3 | 4817.6 | 5438.5 | 3840.0 | 3359.9 | 3524.9 | 3424.5 | 3951.8 | 5619.6 | 3843.4 |
| 77.5° | 2954.6 | 2929.0 | 3508.7 | 4153.7 | 2738.5 | 2459.6 | 2462.4 | 2414.5 | 2759.3 | 4137.6 | 2611.1 |
| 80° | 1876.5 | 1837.5 | 2196.4 | 2566.0 | 1881.9 | 2013.2 | 1947.2 | 1945.3 | 1796.4 | 2552.6 | 1578.9 |
| 82.5° | 1014.1 | 1057.1 | 1387.7 | 1608.6 | 1350.0 | 1556.1 | 1426.1 | 1384.3 | 1232.8 | 1597.8 | 1010.0 |
| 85° | 461.9 | 502.3 | 740.0 | 1094.2 | 1025.5 | 1036.9 | 692.9 | 817.5 | 1020.1 | 1297.5 | 539.3 |
| 87.5° | 45.1 | 57.9 | 152.8 | 516.5 | 350.2 | 276.1 | 103.0 | 198.6 | 256.5 | 461.3 | 43.1 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 |
| 2.5° | 3486.5 | 3451.5 | 3332.3 | 3234.0 | 3129.7 | 3050.2 | 2946.5 | 2877.1 | 2829.3 | 2757.3 | 2748.6 |
| 5° | 3326.3 | 3240.8 | 3033.3 | 2821.9 | 2639.4 | 2502.1 | 2362.7 | 2234.8 | 2159.4 | 2135.8 | 2105.5 |
| 7.5° | 3056.2 | 2912.1 | 2645.5 | 2403.1 | 2193.7 | 1989.0 | 1831.4 | 1719.7 | 1644.9 | 1601.2 | 1548.6 |
| 10° | 2834.1 | 2667.1 | 2342.5 | 2045.6 | 1873.2 | 1745.9 | 1607.3 | 1487.4 | 1395.1 | 1316.4 | 1273.2 |
| 12.5° | 2684.6 | 2496.0 | 2131.1 | 1890.0 | 1756.7 | 1621.4 | 1459.1 | 1324.4 | 1188.4 | 1098.9 | 1060.5 |
| 15° | 2639.4 | 2440.1 | 2065.8 | 1812.6 | 1621.4 | 1444.3 | 1262.5 | 1086.7 | 952.0 | 867.3 | 839.0 |
| 17.5° | 2749.9 | 2508.8 | 2065.1 | 1709.6 | 1462.5 | 1251.1 | 1018.1 | 853.1 | 715.1 | 651.8 | 631.6 |
| 20° | 2955.9 | 2640.8 | 2071.2 | 1607.9 | 1290.1 | 992.5 | 740.6 | 605.3 | 539.3 | 512.4 | 502.3 |
| 22.5° | 3243.4 | 2842.1 | 2089.4 | 1507.6 | 1101.6 | 762.2 | 554.8 | 486.2 | 462.6 | 457.9 | 455.9 |
| 25° | 3597.6 | 3091.3 | 2150.6 | 1417.4 | 942.7 | 581.8 | 463.9 | 432.9 | 419.5 | 414.8 | 414.1 |
| 27.5° | 3923.5 | 3413.1 | 2224.7 | 1339.9 | 789.1 | 501.7 | 419.5 | 393.2 | 379.8 | 379.1 | 380.5 |
| 30° | 4217.7 | 3682.4 | 2286.6 | 1253.0 | 672.7 | 445.8 | 390.6 | 364.3 | 351.5 | 350.8 | 354.9 |
| 32.5° | 4472.3 | 3904.0 | 2332.4 | 1167.5 | 608.0 | 411.4 | 364.3 | 336.0 | 325.2 | 323.2 | 325.2 |
| 35° | 4744.3 | 4124.8 | 2311.6 | 1100.9 | 571.0 | 383.1 | 344.8 | 317.1 | 304.4 | 298.3 | 298.3 |
| 37.5° | 5054.7 | 4352.4 | 2275.9 | 1045.7 | 554.1 | 359.6 | 327.9 | 301.0 | 288.2 | 282.1 | 281.5 |
| 40° | 5393.4 | 4580.0 | 2226.7 | 996.5 | 537.3 | 345.4 | 316.5 | 288.2 | 272.7 | 266.6 | 265.3 |
| 42.5° | 5692.3 | 4774.6 | 2186.3 | 964.2 | 509.7 | 348.1 | 306.4 | 278.7 | 259.3 | 251.2 | 250.5 |
| 45° | 5952.2 | 4970.5 | 2178.9 | 945.3 | 486.8 | 344.1 | 303.6 | 271.4 | 248.4 | 239.7 | 238.3 |
| 47.5° | 6155.6 | 5174.5 | 2221.3 | 934.6 | 461.9 | 322.5 | 321.2 | 266.6 | 239.0 | 229.6 | 228.2 |
| 50° | 6403.4 | 5464.1 | 2318.3 | 912.4 | 439.0 | 302.3 | 339.4 | 266.0 | 231.6 | 219.5 | 216.1 |
| 52.5° | 6733.3 | 5841.1 | 2449.5 | 872.7 | 406.0 | 283.4 | 323.8 | 266.0 | 222.8 | 210.8 | 206.7 |
| 55° | 7232.3 | 6321.9 | 2578.2 | 816.7 | 359.6 | 258.5 | 292.2 | 257.9 | 210.1 | 199.3 | 196.6 |
| 57.5° | 7562.8 | 6673.4 | 2660.3 | 739.3 | 301.7 | 240.4 | 251.8 | 245.1 | 197.3 | 185.8 | 185.8 |
| 60° | 7579.7 | 6767.6 | 2621.2 | 641.7 | 265.3 | 223.5 | 218.8 | 247.1 | 185.8 | 173.7 | 172.3 |
| 62.5° | 7385.7 | 6536.6 | 2417.9 | 554.1 | 245.8 | 205.4 | 197.9 | 216.8 | 174.4 | 162.2 | 160.3 |
| 65° | 7082.8 | 5947.5 | 2065.1 | 512.4 | 235.0 | 189.2 | 178.4 | 177.7 | 162.2 | 150.8 | 148.1 |
| 67.5° | 6525.9 | 5197.4 | 1696.8 | 488.2 | 229.6 | 171.0 | 160.9 | 157.5 | 148.1 | 138.7 | 137.3 |
| 70° | 5705.1 | 4353.1 | 1360.8 | 478.1 | 226.9 | 152.1 | 144.1 | 140.1 | 131.9 | 124.6 | 123.9 |
| 72.5° | 4438.6 | 3530.9 | 1123.1 | 471.4 | 225.6 | 134.7 | 125.9 | 120.5 | 115.8 | 109.1 | 109.1 |
| 75° | 3188.2 | 2597.7 | 857.2 | 424.9 | 208.7 | 115.8 | 106.4 | 103.0 | 96.3 | 90.9 | 92.2 |
| 77.5° | 2009.9 | 1749.3 | 564.2 | 312.4 | 161.6 | 92.9 | 84.9 | 82.8 | 77.4 | 70.0 | 74.8 |
| 80° | 1357.4 | 1230.2 | 329.3 | 196.6 | 101.7 | 68.0 | 65.3 | 64.7 | 58.6 | 50.5 | 51.2 |
| 82.5° | 923.8 | 906.3 | 171.0 | 111.7 | 58.6 | 39.7 | 38.4 | 39.7 | 33.0 | 26.9 | 26.9 |
| 85° | 360.9 | 492.9 | 80.8 | 43.8 | 18.9 | 6.0 | 8.8 | 9.4 | 5.4 | 2.7 | 3.4 |
| 87.5° | 6.7 | 50.5 | 2.0 | 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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 CATALOG NUMBER: GALN-SA2D-835-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 | 3280.5 |
| 2.5° | 2735.1 | 2729.0 | 2739.1 | 2696.0 | 2704.8 | 2720.9 | 2729.0 | 2733.7 | 2800.4 | 2784.9 | 2827.3 |
| 5° | 2133.8 | 2127.7 | 2166.8 | 2172.1 | 2192.3 | 2188.3 | 2207.8 | 2212.5 | 2236.8 | 2245.6 | 2304.8 |
| 7.5° | 1552.0 | 1578.3 | 1622.7 | 1645.6 | 1679.9 | 1690.7 | 1680.6 | 1705.5 | 1655.0 | 1691.4 | 1702.2 |
| 10° | 1247.0 | 1215.4 | 1196.5 | 1249.0 | 1255.8 | 1305.6 | 1285.4 | 1269.2 | 1298.8 | 1300.2 | 1328.5 |
| 12.5° | 1038.3 | 970.3 | 925.2 | 940.0 | 956.1 | 977.7 | 981.0 | 1013.4 | 1034.9 | 1055.1 | 1071.9 |
| 15° | 814.1 | 790.5 | 749.4 | 729.2 | 752.1 | 760.8 | 781.7 | 808.7 | 831.5 | 837.7 | 860.5 |
| 17.5° | 624.8 | 628.9 | 622.2 | 610.0 | 624.2 | 630.9 | 632.3 | 632.9 | 639.0 | 634.9 | 668.6 |
| 20° | 503.0 | 517.1 | 533.9 | 536.7 | 541.4 | 544.7 | 538.6 | 515.8 | 516.5 | 530.6 | 541.4 |
| 22.5° | 455.2 | 457.9 | 476.7 | 482.8 | 497.6 | 491.6 | 474.0 | 463.2 | 461.9 | 465.3 | 470.7 |
| 25° | 417.5 | 421.5 | 435.0 | 444.4 | 455.9 | 445.1 | 432.3 | 422.2 | 420.9 | 424.2 | 429.6 |
| 27.5° | 383.8 | 389.9 | 402.0 | 411.4 | 422.2 | 412.1 | 400.0 | 391.2 | 390.6 | 389.9 | 393.2 |
| 30° | 356.9 | 363.6 | 372.3 | 383.1 | 390.6 | 381.8 | 370.4 | 365.6 | 365.0 | 363.6 | 365.0 |
| 32.5° | 330.0 | 340.7 | 349.5 | 354.9 | 362.2 | 355.5 | 346.8 | 344.1 | 339.4 | 335.3 | 333.3 |
| 35° | 299.7 | 311.1 | 324.6 | 331.3 | 338.6 | 331.9 | 325.9 | 314.5 | 306.4 | 305.7 | 307.0 |
| 37.5° | 282.1 | 286.8 | 297.6 | 309.1 | 316.5 | 313.1 | 301.7 | 290.2 | 288.2 | 288.2 | 289.6 |
| 40° | 266.6 | 268.6 | 273.3 | 288.2 | 301.7 | 291.6 | 277.4 | 274.0 | 274.0 | 273.3 | 274.0 |
| 42.5° | 251.2 | 253.1 | 253.1 | 264.7 | 286.2 | 270.0 | 259.3 | 259.3 | 259.3 | 259.9 | 261.9 |
| 45° | 237.0 | 237.7 | 237.0 | 245.1 | 265.3 | 251.8 | 244.5 | 246.4 | 247.8 | 249.2 | 250.5 |
| 47.5° | 224.9 | 225.6 | 224.9 | 231.6 | 241.7 | 236.3 | 232.3 | 235.0 | 237.7 | 239.7 | 241.1 |
| 50° | 214.2 | 213.4 | 214.8 | 218.8 | 223.5 | 224.9 | 222.2 | 226.2 | 227.6 | 230.3 | 233.6 |
| 52.5° | 204.7 | 204.0 | 205.4 | 207.4 | 214.2 | 214.2 | 214.2 | 217.5 | 220.2 | 222.8 | 227.6 |
| 55° | 193.9 | 194.6 | 196.6 | 199.3 | 208.0 | 206.7 | 207.4 | 210.1 | 212.7 | 216.8 | 219.5 |
| 57.5° | 183.8 | 185.2 | 187.8 | 191.9 | 200.7 | 200.0 | 200.7 | 202.0 | 205.4 | 207.4 | 210.1 |
| 60° | 172.3 | 175.1 | 178.4 | 181.1 | 189.9 | 189.2 | 192.5 | 195.3 | 197.3 | 197.3 | 198.6 |
| 62.5° | 160.9 | 165.0 | 168.3 | 170.4 | 179.8 | 180.5 | 185.2 | 187.2 | 188.5 | 187.2 | 189.2 |
| 65° | 149.5 | 155.5 | 156.9 | 159.6 | 169.0 | 169.7 | 175.1 | 179.8 | 178.4 | 177.1 | 180.5 |
| 67.5° | 138.0 | 145.4 | 144.8 | 148.1 | 157.5 | 158.9 | 163.6 | 171.7 | 169.0 | 167.6 | 170.4 |
| 70° | 125.2 | 130.6 | 131.3 | 133.3 | 146.1 | 144.1 | 151.5 | 158.9 | 156.9 | 157.5 | 157.5 |
| 72.5° | 111.1 | 115.8 | 115.8 | 119.9 | 133.3 | 130.0 | 136.0 | 144.1 | 144.1 | 143.4 | 143.4 |
| 75° | 94.3 | 96.9 | 99.7 | 105.7 | 119.9 | 115.8 | 119.9 | 127.2 | 128.6 | 127.2 | 127.2 |
| 77.5° | 76.1 | 80.1 | 81.5 | 89.6 | 99.7 | 99.0 | 103.0 | 106.4 | 109.1 | 107.7 | 107.7 |
| 80° | 53.9 | 57.9 | 63.3 | 72.0 | 78.1 | 80.1 | 82.1 | 84.9 | 86.2 | 86.2 | 87.5 |
| 82.5° | 30.3 | 36.3 | 41.1 | 49.8 | 52.5 | 62.6 | 61.9 | 64.0 | 61.9 | 54.6 | 60.6 |
| 85° | 6.7 | 12.8 | 18.2 | 22.9 | 26.2 | 36.3 | 38.4 | 43.1 | 35.7 | 33.0 | 33.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.4 | 10.8 | 14.8 | 12.8 | 10.8 | 10.8 |
| 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° | 2863.0 | 2921.6 | 2992.2 | 3114.1 | 3199.7 | 3291.9 | 3384.8 | 3483.8 | 3510.0 | 3537.0 |
| 5° | 2321.0 | 2436.1 | 2498.7 | 2662.4 | 2834.1 | 3052.2 | 3230.7 | 3425.9 | 3507.4 | 3526.2 |
| 7.5° | 1758.1 | 1836.1 | 2000.5 | 2166.1 | 2378.8 | 2607.8 | 2881.2 | 3185.6 | 3280.5 | 3320.2 |
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| 22.5° | 492.9 | 535.3 | 635.6 | 851.7 | 1150.1 | 1554.0 | 2189.7 | 3044.8 | 3340.4 | 3458.2 |
| 25° | 446.4 | 468.6 | 525.2 | 666.6 | 995.8 | 1462.5 | 2259.0 | 3359.2 | 3737.7 | 3815.7 |
| 27.5° | 406.7 | 422.8 | 457.9 | 559.5 | 855.8 | 1377.6 | 2339.8 | 3708.1 | 4108.6 | 4225.1 |
| 30° | 368.9 | 390.6 | 423.5 | 496.9 | 766.2 | 1300.2 | 2441.5 | 3990.8 | 4421.1 | 4529.5 |
| 32.5° | 340.1 | 361.6 | 391.9 | 453.1 | 690.1 | 1218.7 | 2502.1 | 4239.2 | 4676.2 | 4768.5 |
| 35° | 316.5 | 334.7 | 366.3 | 418.1 | 632.3 | 1156.8 | 2489.9 | 4436.6 | 4923.3 | 5017.6 |
| 37.5° | 299.7 | 315.1 | 346.8 | 385.2 | 588.5 | 1092.1 | 2483.9 | 4697.1 | 5224.3 | 5333.4 |
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| 45° | 261.9 | 281.5 | 304.4 | 356.9 | 463.9 | 908.4 | 2470.4 | 5373.8 | 6045.9 | 6135.4 |
| 47.5° | 253.1 | 274.8 | 307.7 | 344.8 | 455.2 | 874.7 | 2455.6 | 5528.7 | 6227.0 | 6311.1 |
| 50° | 247.1 | 272.7 | 327.2 | 330.6 | 457.9 | 864.6 | 2527.0 | 5724.0 | 6386.5 | 6459.3 |
| 52.5° | 242.4 | 273.3 | 326.6 | 309.8 | 453.1 | 871.3 | 2675.8 | 6029.0 | 6608.1 | 6613.5 |
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| 57.5° | 223.5 | 265.3 | 287.5 | 266.0 | 393.9 | 882.8 | 3097.3 | 6891.5 | 7373.0 | 7376.3 |
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| 65° | 193.9 | 224.3 | 208.0 | 216.8 | 284.9 | 762.2 | 3464.3 | 6498.3 | 6992.5 | 7051.1 |
| 67.5° | 181.1 | 189.9 | 189.2 | 200.0 | 278.1 | 665.9 | 3162.6 | 6025.7 | 6632.9 | 6629.6 |
| 70° | 165.6 | 170.4 | 172.3 | 183.8 | 265.3 | 591.2 | 2635.4 | 5412.3 | 6152.9 | 6228.3 |
| 72.5° | 149.5 | 153.5 | 155.5 | 165.6 | 252.5 | 548.7 | 2045.6 | 4567.2 | 5329.4 | 5447.3 |
| 75° | 131.9 | 134.7 | 137.3 | 146.1 | 239.0 | 486.2 | 1457.1 | 3486.5 | 4081.7 | 4266.9 |
| 77.5° | 113.8 | 113.8 | 117.1 | 125.9 | 201.3 | 401.3 | 977.7 | 2445.5 | 2765.4 | 2954.6 |
| 80° | 92.2 | 92.9 | 91.6 | 101.0 | 148.1 | 274.8 | 555.5 | 1633.5 | 1840.2 | 1876.5 |
| 82.5° | 70.7 | 68.7 | 69.4 | 74.1 | 110.4 | 187.2 | 296.3 | 1014.7 | 1034.3 | 1014.1 |
| 85° | 44.5 | 44.5 | 43.1 | 48.5 | 70.7 | 97.6 | 161.6 | 621.5 | 485.5 | 461.9 |
| 87.5° | 18.2 | 14.8 | 16.8 | 19.5 | 33.7 | 39.7 | 63.3 | 127.9 | 49.2 | 45.1 |
| 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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