

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: P951419

Luminaire Tested: **GALN-SB5C-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-827-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33337 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

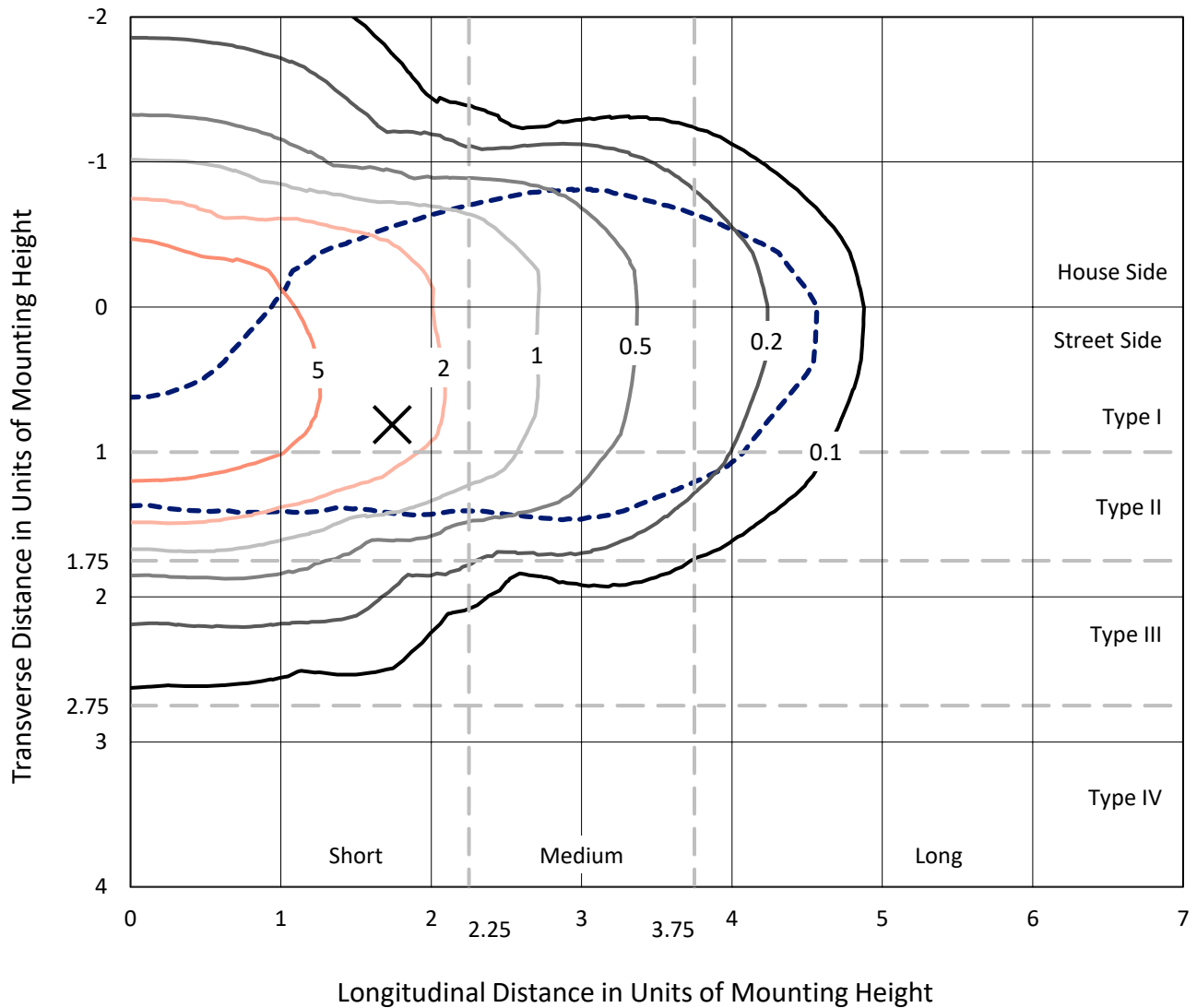
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

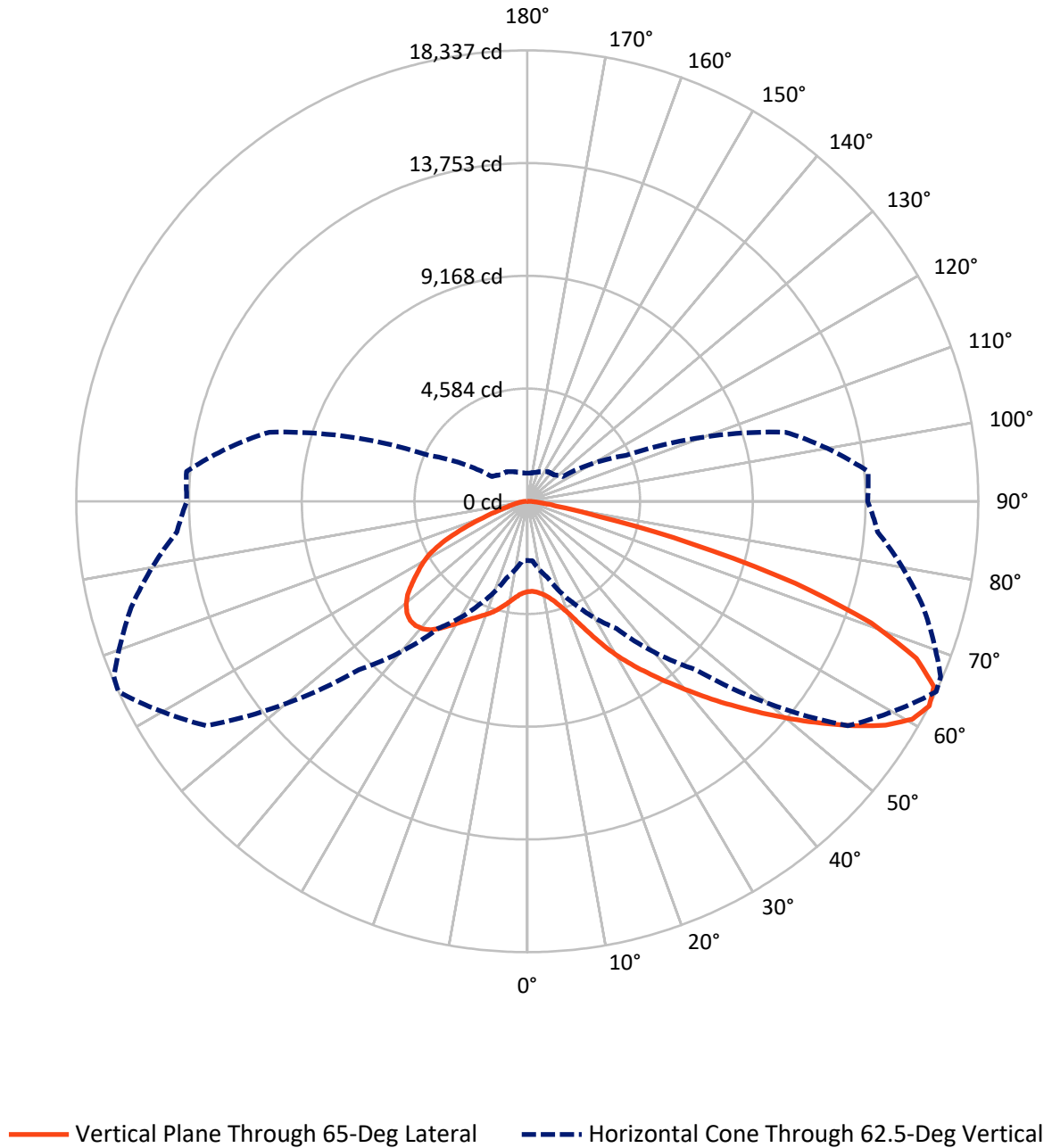
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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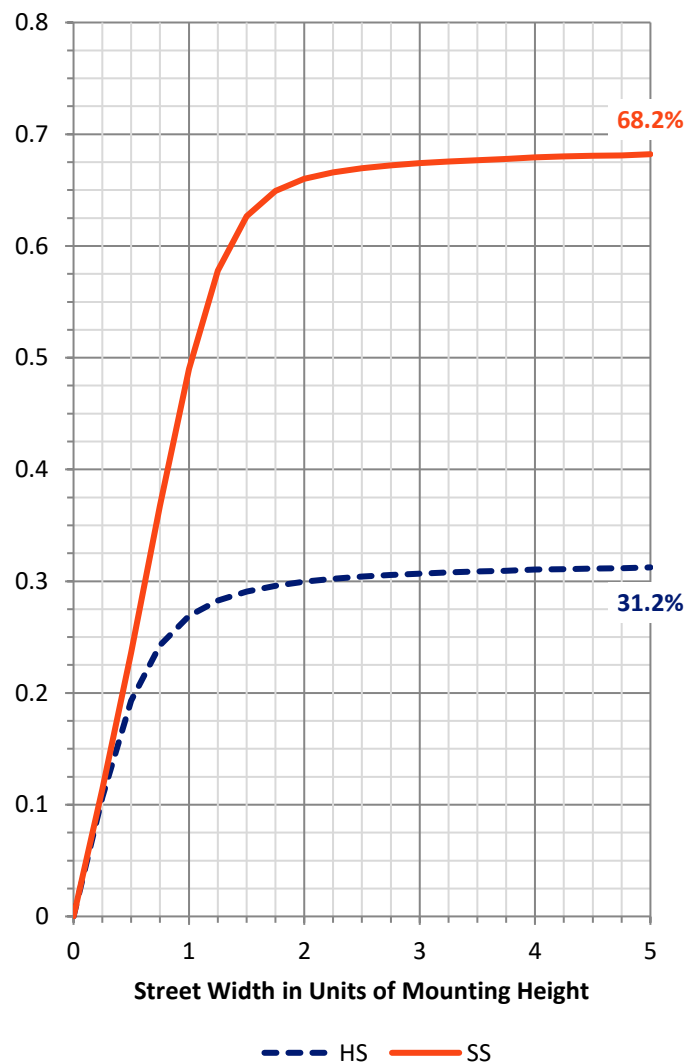
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10519.7 | 0.0 | 10519.7 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 22817.3 | 0.0 | 22817.3 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 33337.0 | 0.0 | 33337.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 366.3 | 1.1 |
| 10°-20° | 1242.0 | 3.7 |
| 20°-30° | 2518.3 | 7.6 |
| 30°-40° | 4357.8 | 13.1 |
| 40°-50° | 6594.8 | 19.8 |
| 50°-60° | 7731.9 | 23.2 |
| 60°-70° | 6482.3 | 19.4 |
| 70°-80° | 3578.7 | 10.7 |
| 80°-90° | 464.9 | 1.4 |
| 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° | 33337.0 | 100.0 |
| 0°-180° | 33337.0 | 100.0 |

Coefficient of Utilization



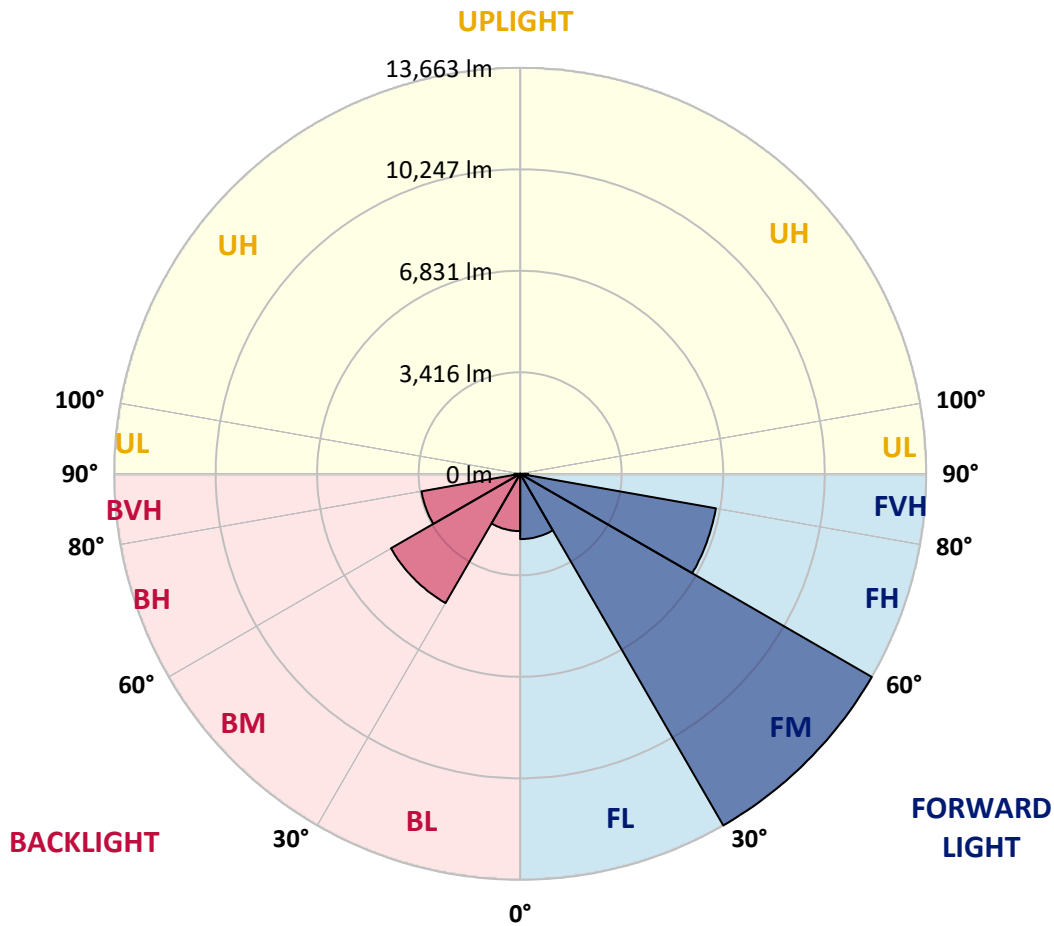
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2197.4 | 6.6 | | | |
| FM (30°-60°) | 13662.6 | 41.0 | | | |
| FH (60°-80°) | 6686.4 | 20.1 | | | G3/7500 |
| FVH (80°-90°) | 270.9 | 0.8 | | | G3/500 |
| BL (0°-30°) | 1929.2 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 5022.0 | 15.1 | B4/8500 | | |
| BH (60°-80°) | 3374.6 | 10.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 193.9 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3673.6 | 3673.6 | 3673.6 | 3673.6 | 3673.6 | 3673.6 | 3673.6 | 3673.6 | 3673.6 | 3673.6 |
| 2.5° | 3649.4 | 3639.0 | 3647.6 | 3647.6 | 3651.1 | 3649.4 | 3661.5 | 3664.9 | 3670.1 | 3680.5 |
| 5° | 3613.1 | 3611.3 | 3626.9 | 3640.7 | 3654.6 | 3666.7 | 3682.2 | 3704.7 | 3708.2 | 3720.3 |
| 7.5° | 3601.0 | 3590.6 | 3614.8 | 3632.1 | 3664.9 | 3694.3 | 3735.9 | 3773.9 | 3789.5 | 3794.7 |
| 10° | 3694.3 | 3677.1 | 3699.5 | 3709.9 | 3737.6 | 3767.0 | 3815.4 | 3876.0 | 3893.2 | 3914.0 |
| 12.5° | 3853.5 | 3834.4 | 3867.3 | 3882.9 | 3908.8 | 3934.8 | 3967.6 | 4026.4 | 4035.1 | 4073.1 |
| 15° | 4071.4 | 4048.9 | 4069.7 | 4088.7 | 4131.9 | 4156.1 | 4189.0 | 4246.1 | 4246.1 | 4275.5 |
| 17.5° | 4367.1 | 4337.7 | 4353.3 | 4360.2 | 4387.9 | 4424.2 | 4479.6 | 4529.7 | 4555.7 | 4545.3 |
| 20° | 4808.2 | 4771.9 | 4771.9 | 4737.3 | 4726.9 | 4756.3 | 4828.9 | 4898.1 | 4925.8 | 4872.2 |
| 22.5° | 5470.6 | 5418.7 | 5389.3 | 5271.7 | 5225.0 | 5228.5 | 5301.1 | 5385.9 | 5408.3 | 5313.2 |
| 25° | 6312.9 | 6231.6 | 6191.8 | 6018.9 | 5913.4 | 5821.7 | 5878.8 | 5987.7 | 6018.9 | 5901.3 |
| 27.5° | 7155.2 | 7160.4 | 7122.3 | 6914.8 | 6740.1 | 6572.3 | 6542.9 | 6657.1 | 6690.0 | 6556.8 |
| 30° | 8336.5 | 8213.7 | 8141.1 | 7892.0 | 7642.9 | 7407.7 | 7286.7 | 7333.3 | 7342.0 | 7182.9 |
| 32.5° | 9355.2 | 9324.1 | 9168.4 | 8950.5 | 8630.5 | 8262.1 | 8059.8 | 7985.4 | 7971.6 | 7745.0 |
| 35° | 10515.7 | 10498.5 | 10334.1 | 10074.7 | 9728.8 | 9216.8 | 8851.9 | 8639.2 | 8621.9 | 8303.6 |
| 37.5° | 11695.3 | 11695.3 | 11534.5 | 11250.8 | 10892.8 | 10252.9 | 9697.7 | 9360.4 | 9305.1 | 8890.0 |
| 40° | 12636.2 | 12579.1 | 12608.5 | 12489.2 | 12079.3 | 11399.6 | 10636.8 | 10147.3 | 10073.0 | 9574.9 |
| 42.5° | 13170.6 | 13151.6 | 13328.0 | 13461.2 | 13293.4 | 12750.3 | 11671.1 | 11000.0 | 10896.2 | 10329.0 |
| 45° | 13290.0 | 13269.2 | 13584.0 | 14071.7 | 14306.9 | 14083.8 | 12795.3 | 11897.7 | 11771.4 | 11117.6 |
| 47.5° | 13015.0 | 12973.5 | 13435.2 | 14204.9 | 14959.0 | 15351.6 | 14012.9 | 12871.4 | 12688.1 | 11885.6 |
| 50° | 12188.2 | 12148.5 | 12847.2 | 13869.4 | 15178.6 | 16212.9 | 15334.3 | 13904.0 | 13623.8 | 12708.8 |
| 52.5° | 10391.2 | 10410.2 | 11505.1 | 12909.5 | 14889.8 | 16749.1 | 16472.4 | 14991.9 | 14654.6 | 13551.1 |
| 55° | 8094.4 | 8135.9 | 9481.5 | 11027.7 | 13734.5 | 16667.8 | 17248.9 | 16112.6 | 15777.1 | 14343.3 |
| 57.5° | 5795.8 | 5979.1 | 7240.0 | 8770.6 | 11515.4 | 15379.3 | 17418.4 | 17178.0 | 16852.9 | 15208.1 |
| 60° | 3756.6 | 3789.5 | 5086.6 | 6629.4 | 8768.9 | 13089.3 | 17074.3 | 17985.7 | 17731.5 | 16090.1 |
| 62.5° | 2407.6 | 2430.0 | 3220.4 | 4637.0 | 6311.2 | 9683.8 | 15915.4 | 18336.8 | 18259.0 | 16673.0 |
| 65° | 1769.3 | 1752.0 | 2163.7 | 3064.8 | 4251.3 | 5972.2 | 13665.3 | 18167.3 | 18321.3 | 17037.9 |
| 67.5° | 1477.0 | 1452.8 | 1655.2 | 2122.2 | 3132.2 | 3391.7 | 10111.0 | 17065.6 | 17629.4 | 16996.4 |
| 70° | 1345.6 | 1324.8 | 1447.6 | 1575.6 | 2443.9 | 2270.9 | 5097.0 | 14836.2 | 15704.4 | 16524.2 |
| 72.5° | 1139.8 | 1103.5 | 1271.2 | 1399.2 | 1900.8 | 1741.7 | 2106.6 | 11396.1 | 12454.6 | 15010.9 |
| 75° | 883.8 | 859.6 | 1003.1 | 1231.4 | 1428.6 | 1359.4 | 1331.8 | 6920.0 | 8075.3 | 11608.8 |
| 77.5° | 700.5 | 667.6 | 799.1 | 959.9 | 1285.1 | 1025.6 | 970.3 | 2980.0 | 4125.0 | 7411.2 |
| 80° | 527.5 | 498.1 | 607.1 | 759.3 | 987.6 | 773.1 | 627.8 | 1215.9 | 1554.9 | 3754.9 |
| 82.5° | 375.3 | 349.4 | 423.7 | 556.9 | 664.2 | 693.6 | 385.7 | 681.4 | 766.2 | 1447.6 |
| 85° | 240.4 | 224.8 | 283.6 | 349.4 | 422.0 | 446.2 | 235.2 | 356.3 | 390.9 | 596.7 |
| 87.5° | 131.4 | 107.2 | 152.2 | 162.6 | 195.4 | 178.1 | 112.4 | 129.7 | 140.1 | 216.2 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 3673.6 | 0° | 3673.6 | 3673.6 | 3673.6 | 3673.6 | 3673.6 | 3673.6 | 3673.6 | 3673.6 | 3673.6 | 3673.6 |
| 3680.5 | 2.5° | 3687.4 | 3692.6 | 3709.9 | 3715.1 | 3727.2 | 3742.8 | 3753.2 | 3763.5 | 3763.5 | 3773.9 |
| 3735.9 | 5° | 3737.6 | 3749.7 | 3786.0 | 3805.0 | 3836.2 | 3867.3 | 3886.3 | 3908.8 | 3922.6 | 3929.6 |
| 3824.1 | 7.5° | 3834.4 | 3853.5 | 3905.4 | 3938.2 | 3991.8 | 4035.1 | 4064.5 | 4095.6 | 4102.5 | 4121.5 |
| 3946.9 | 10° | 3965.9 | 3988.4 | 4047.2 | 4109.4 | 4173.4 | 4227.1 | 4254.7 | 4277.2 | 4285.9 | 4289.3 |
| 4104.3 | 12.5° | 4116.4 | 4149.2 | 4225.3 | 4301.4 | 4368.9 | 4415.6 | 4422.5 | 4417.3 | 4393.1 | 4372.3 |
| 4298.0 | 15° | 4301.4 | 4330.8 | 4415.6 | 4498.6 | 4564.3 | 4573.0 | 4529.7 | 4502.1 | 4472.7 | 4467.5 |
| 4514.2 | 17.5° | 4522.8 | 4538.4 | 4616.2 | 4697.5 | 4702.7 | 4673.3 | 4609.3 | 4583.3 | 4555.7 | 4536.6 |
| 4796.1 | 20° | 4780.5 | 4775.3 | 4830.7 | 4865.3 | 4828.9 | 4739.0 | 4642.1 | 4598.9 | 4571.2 | 4548.8 |
| 5142.0 | 22.5° | 5088.4 | 5048.6 | 5041.7 | 5033.0 | 4936.2 | 4747.7 | 4616.2 | 4560.9 | 4517.6 | 4486.5 |
| 5624.5 | 25° | 5536.3 | 5384.1 | 5278.6 | 5219.8 | 5001.9 | 4701.0 | 4533.2 | 4410.4 | 4329.1 | 4275.5 |
| 6214.3 | 27.5° | 6096.7 | 5840.7 | 5574.4 | 5430.8 | 5001.9 | 4605.8 | 4332.6 | 4133.7 | 4000.5 | 3945.1 |
| 6785.1 | 30° | 6631.1 | 6363.1 | 5970.5 | 5685.1 | 4989.8 | 4450.2 | 4009.1 | 3732.4 | 3576.7 | 3521.4 |
| 7272.8 | 32.5° | 7087.8 | 6795.5 | 6390.7 | 5963.5 | 4960.4 | 4197.7 | 3607.9 | 3301.7 | 3151.3 | 3085.5 |
| 7755.4 | 35° | 7511.5 | 7200.2 | 6812.8 | 6269.7 | 4882.6 | 3827.5 | 3166.8 | 2933.3 | 2765.6 | 2660.1 |
| 8246.6 | 37.5° | 7945.6 | 7575.5 | 7212.3 | 6546.4 | 4742.5 | 3395.1 | 2827.8 | 2628.9 | 2431.8 | 2289.9 |
| 8768.9 | 40° | 8417.8 | 7975.0 | 7639.5 | 6710.7 | 4512.4 | 2983.5 | 2564.9 | 2383.3 | 2174.1 | 2023.6 |
| 9370.8 | 42.5° | 8969.5 | 8454.1 | 8115.1 | 6795.5 | 4197.7 | 2691.2 | 2393.7 | 2215.6 | 2018.4 | 1895.6 |
| 10015.9 | 45° | 9545.5 | 8981.6 | 8549.2 | 6793.7 | 3846.5 | 2554.6 | 2338.4 | 2162.0 | 1944.0 | 1816.0 |
| 10678.3 | 47.5° | 10149.1 | 9533.4 | 8924.5 | 6683.0 | 3542.1 | 2573.6 | 2307.2 | 2046.1 | 1805.7 | 1681.1 |
| 11347.7 | 50° | 10754.4 | 10137.0 | 9287.8 | 6475.5 | 3412.4 | 2532.1 | 2191.4 | 1883.5 | 1599.8 | 1487.4 |
| 11975.5 | 52.5° | 11354.6 | 10778.6 | 9600.8 | 6179.7 | 3281.0 | 2378.1 | 2042.6 | 1672.5 | 1515.1 | 1437.3 |
| 12624.1 | 55° | 11958.2 | 11413.4 | 9941.5 | 5749.1 | 2952.4 | 2198.3 | 1793.6 | 1592.9 | 1447.6 | 1376.7 |
| 13258.8 | 57.5° | 12563.5 | 12146.7 | 10265.0 | 5318.4 | 2539.0 | 1976.9 | 1656.9 | 1496.1 | 1380.2 | 1319.7 |
| 13789.8 | 60° | 13193.1 | 12985.6 | 10598.8 | 4922.3 | 2130.8 | 1693.2 | 1556.6 | 1418.2 | 1300.6 | 1233.2 |
| 14300.0 | 62.5° | 13841.7 | 13909.1 | 10859.9 | 4412.1 | 1755.5 | 1520.3 | 1466.7 | 1324.8 | 1210.7 | 1146.7 |
| 14722.0 | 65° | 14495.5 | 14799.9 | 11031.2 | 3704.7 | 1423.4 | 1356.0 | 1369.8 | 1222.8 | 1106.9 | 1051.6 |
| 15031.6 | 67.5° | 14988.4 | 15441.5 | 10982.7 | 2803.6 | 1167.5 | 1200.3 | 1248.7 | 1115.6 | 1006.6 | 963.4 |
| 14981.5 | 70° | 15043.7 | 15365.4 | 10505.4 | 1919.8 | 977.2 | 1048.1 | 1113.8 | 1010.1 | 897.6 | 866.5 |
| 14275.8 | 72.5° | 14306.9 | 14327.7 | 9175.3 | 1253.9 | 826.7 | 920.1 | 972.0 | 902.8 | 793.9 | 762.7 |
| 12489.2 | 75° | 12375.0 | 11849.2 | 6736.6 | 826.7 | 691.8 | 790.4 | 838.8 | 790.4 | 684.9 | 691.8 |
| 9344.8 | 77.5° | 9376.0 | 8391.8 | 4090.4 | 588.1 | 577.7 | 664.2 | 729.9 | 695.3 | 605.3 | 679.7 |
| 4699.2 | 80° | 4830.7 | 4540.1 | 1824.7 | 439.3 | 456.6 | 531.0 | 600.2 | 555.2 | 479.1 | 456.6 |
| 1049.8 | 82.5° | 1106.9 | 1286.8 | 719.5 | 314.8 | 330.3 | 382.2 | 458.3 | 416.8 | 344.2 | 290.6 |
| 437.6 | 85° | 387.4 | 423.7 | 318.2 | 197.2 | 193.7 | 238.7 | 311.3 | 278.5 | 233.5 | 186.8 |
| 185.1 | 87.5° | 122.8 | 160.8 | 119.3 | 79.6 | 83.0 | 107.2 | 143.6 | 131.4 | 109.0 | 70.9 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

| <u>180°</u> |
|-------------|
| 3673.6 |
| 3773.9 |
| 3933.0 |
| 4114.6 |
| 4280.7 |
| 4372.3 |
| 4467.5 |
| 4538.4 |
| 4550.5 |
| 4496.9 |
| 4296.2 |
| 3972.8 |
| 3554.3 |
| 3118.4 |
| 2694.7 |
| 2328.0 |
| 2053.0 |
| 1919.8 |
| 1836.8 |
| 1698.4 |
| 1494.3 |
| 1437.3 |
| 1369.8 |
| 1309.3 |
| 1228.0 |
| 1145.0 |
| 1049.8 |
| 965.1 |
| 868.2 |
| 761.0 |
| 667.6 |
| 598.4 |
| 416.8 |
| 287.1 |
| 197.2 |
| 74.4 |
| 0.0 |

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