

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: P944257

Luminaire Tested: **GALN-SB9A-840-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-840-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39108 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

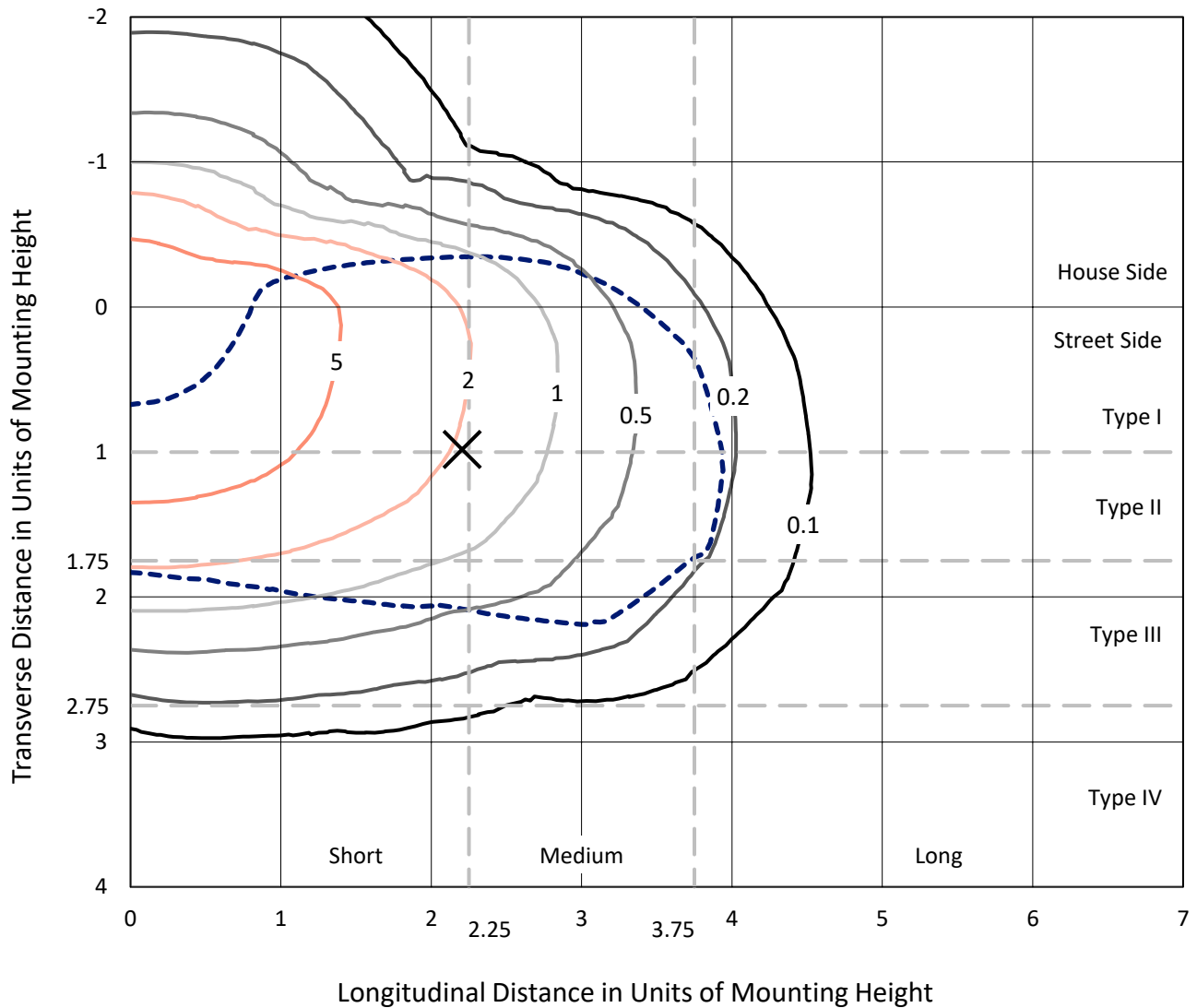
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

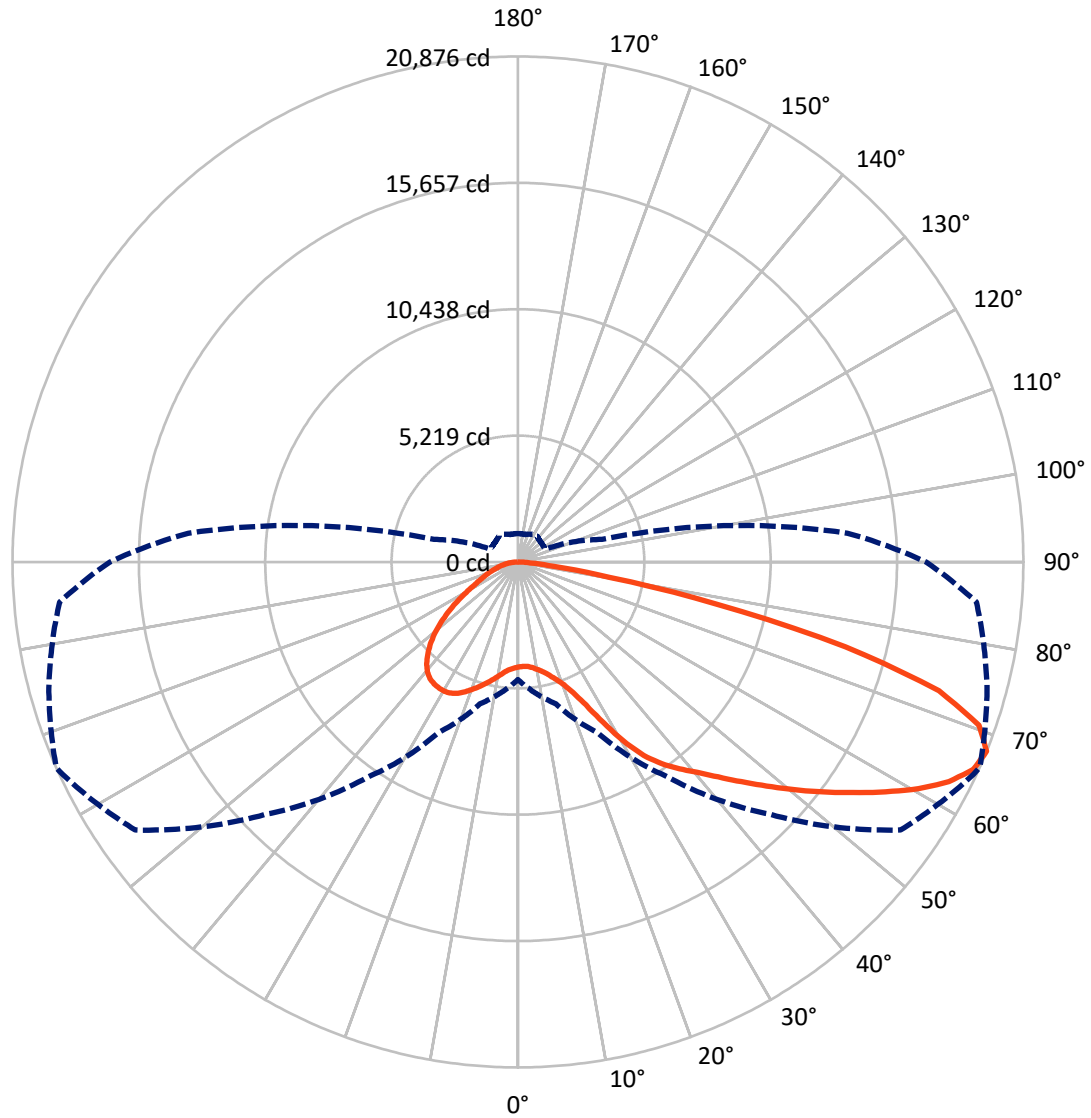
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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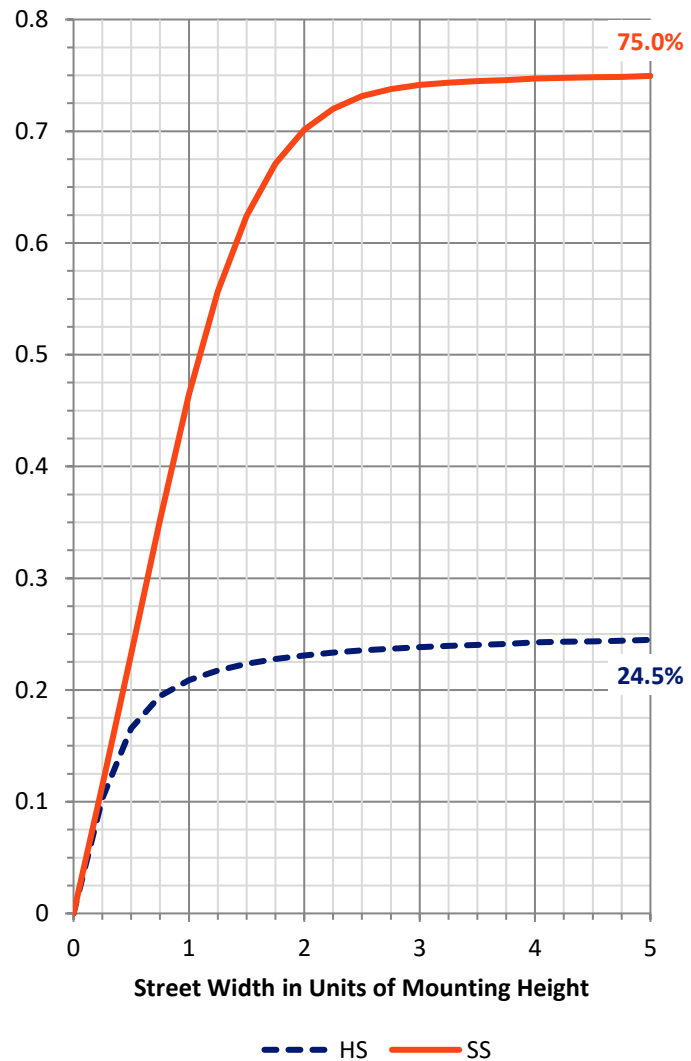
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9724.1 | 0.0 | 9724.1 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 29383.9 | 0.0 | 29383.9 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 39108.0 | 0.0 | 39108.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 430.1 | 1.1 |
| 10°-20° | 1420.8 | 3.6 |
| 20°-30° | 2738.6 | 7.0 |
| 30°-40° | 4801.8 | 12.3 |
| 40°-50° | 7138.7 | 18.3 |
| 50°-60° | 9049.0 | 23.1 |
| 60°-70° | 8854.2 | 22.6 |
| 70°-80° | 4223.5 | 10.8 |
| 80°-90° | 451.4 | 1.2 |
| 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° | 39108.0 | 100.0 |
| 0°-180° | 39108.0 | 100.0 |

Coefficient of Utilization



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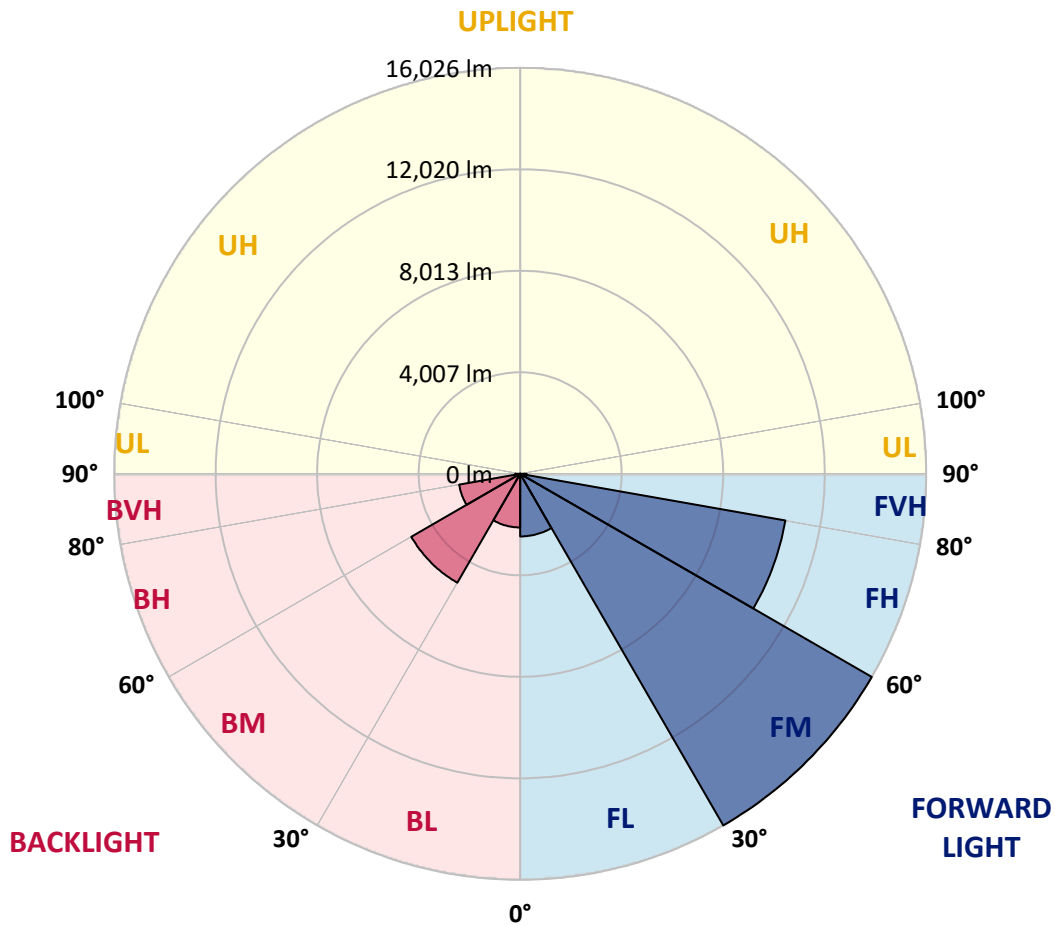
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2471.2 | 6.3 | | | |
| FM (30°-60°) | 16026.1 | 41.0 | | | |
| FH (60°-80°) | 10630.6 | 27.2 | | | G4/12000 |
| FVH (80°-90°) | 255.9 | 0.7 | | | G3/500 |
| BL (0°-30°) | 2118.3 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 4963.3 | 12.7 | B3/5000 | | |
| BH (60°-80°) | 2447.1 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 195.5 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4337.6 | 4337.6 | 4337.6 | 4337.6 | 4337.6 | 4337.6 | 4337.6 | 4337.6 | 4337.6 | 4337.6 |
| 2.5° | 4292.4 | 4317.0 | 4310.9 | 4300.6 | 4298.6 | 4302.7 | 4308.8 | 4315.0 | 4312.9 | 4323.2 |
| 5° | 4280.1 | 4304.7 | 4302.7 | 4302.7 | 4310.9 | 4327.3 | 4337.6 | 4347.9 | 4337.6 | 4349.9 |
| 7.5° | 4288.3 | 4306.8 | 4315.0 | 4323.2 | 4343.8 | 4374.6 | 4399.2 | 4421.8 | 4409.5 | 4423.9 |
| 10° | 4393.1 | 4407.5 | 4415.7 | 4415.7 | 4430.1 | 4465.0 | 4489.6 | 4530.7 | 4520.5 | 4543.1 |
| 12.5° | 4584.2 | 4598.5 | 4598.5 | 4590.3 | 4600.6 | 4623.2 | 4631.4 | 4676.6 | 4658.1 | 4695.1 |
| 15° | 4818.4 | 4847.2 | 4824.6 | 4810.2 | 4814.3 | 4836.9 | 4834.8 | 4869.8 | 4851.3 | 4882.1 |
| 17.5° | 5077.3 | 5114.3 | 5077.3 | 5075.3 | 5067.0 | 5091.7 | 5093.7 | 5124.6 | 5091.7 | 5114.3 |
| 20° | 5383.5 | 5434.8 | 5404.0 | 5414.3 | 5395.8 | 5406.1 | 5416.3 | 5461.5 | 5410.2 | 5426.6 |
| 22.5° | 5815.0 | 5876.6 | 5843.7 | 5882.8 | 5870.4 | 5862.2 | 5860.2 | 5940.3 | 5860.2 | 5866.3 |
| 25° | 6443.7 | 6517.7 | 6460.2 | 6513.6 | 6513.6 | 6540.3 | 6571.1 | 6673.9 | 6540.3 | 6501.3 |
| 27.5° | 7372.5 | 7446.4 | 7333.4 | 7366.3 | 7356.0 | 7421.8 | 7388.9 | 7643.7 | 7499.9 | 7436.2 |
| 30° | 8490.3 | 8621.8 | 8408.1 | 8399.9 | 8389.6 | 8494.4 | 8541.6 | 8710.1 | 8564.2 | 8500.5 |
| 32.5° | 9698.5 | 9836.1 | 9581.3 | 9507.4 | 9468.3 | 9532.0 | 9493.0 | 9628.6 | 9527.9 | 9429.3 |
| 35° | 10976.5 | 11112.1 | 10869.7 | 10725.8 | 10569.7 | 10436.1 | 10296.4 | 10331.3 | 10236.8 | 10086.8 |
| 37.5° | 12184.7 | 12433.3 | 12176.5 | 12022.4 | 11734.7 | 11473.8 | 11083.4 | 10921.0 | 10832.7 | 10695.0 |
| 40° | 13415.5 | 13557.3 | 13362.1 | 13230.6 | 12918.3 | 12509.4 | 11884.7 | 11541.6 | 11422.4 | 11288.8 |
| 42.5° | 14321.7 | 14457.3 | 14352.5 | 14262.1 | 14017.6 | 13542.9 | 12735.4 | 12305.9 | 12133.3 | 11983.3 |
| 45° | 15040.8 | 15141.5 | 15075.8 | 15108.6 | 15003.8 | 14543.6 | 13616.9 | 13125.8 | 12947.0 | 12764.2 |
| 47.5° | 15330.5 | 15437.4 | 15542.2 | 15737.4 | 15916.2 | 15577.1 | 14564.1 | 14013.4 | 13824.4 | 13637.4 |
| 50° | 15297.7 | 15406.6 | 15710.7 | 16125.7 | 16680.5 | 16567.5 | 15562.7 | 14958.6 | 14784.0 | 14570.3 |
| 52.5° | 15034.7 | 15157.9 | 15548.4 | 16238.8 | 17122.3 | 17309.3 | 16579.8 | 15934.6 | 15770.3 | 15515.5 |
| 55° | 14344.3 | 14418.2 | 15003.8 | 15981.9 | 17227.1 | 17827.1 | 17576.4 | 16974.4 | 16810.0 | 16454.5 |
| 57.5° | 13064.2 | 13171.0 | 14023.7 | 15289.5 | 16964.1 | 18178.4 | 18451.7 | 18067.5 | 17909.3 | 17397.6 |
| 60° | 11393.6 | 11564.2 | 12540.2 | 14126.5 | 16294.2 | 18176.4 | 19246.9 | 19142.1 | 19010.6 | 18326.4 |
| 62.5° | 9503.3 | 9700.5 | 10639.5 | 12482.7 | 15123.0 | 17660.6 | 19744.2 | 20042.1 | 19974.3 | 19183.2 |
| 65° | 7298.5 | 7434.1 | 8369.0 | 10356.0 | 13300.4 | 16553.1 | 19801.7 | 20656.5 | 20668.8 | 19834.6 |
| 67.5° | 4859.5 | 5249.9 | 6061.5 | 7771.1 | 10859.4 | 14742.9 | 19296.2 | 20757.2 | 20876.3 | 20058.5 |
| 70° | 2371.2 | 2884.9 | 3680.1 | 5050.6 | 7771.1 | 11966.9 | 17975.0 | 19931.2 | 20196.2 | 19405.1 |
| 72.5° | 984.2 | 1150.7 | 1584.2 | 2492.4 | 4460.9 | 8075.2 | 15320.3 | 17691.5 | 18182.6 | 17194.2 |
| 75° | 663.7 | 719.2 | 906.1 | 1278.1 | 2032.2 | 3982.1 | 11048.4 | 13191.5 | 13982.6 | 12986.1 |
| 77.5° | 511.6 | 546.6 | 659.6 | 893.8 | 1208.2 | 1506.1 | 5913.6 | 7949.9 | 8358.8 | 7738.2 |
| 80° | 402.7 | 429.4 | 493.1 | 651.4 | 856.8 | 805.5 | 2015.7 | 3602.0 | 3838.3 | 3219.8 |
| 82.5° | 349.3 | 359.6 | 353.4 | 441.8 | 569.2 | 470.5 | 661.6 | 1329.4 | 1467.1 | 1064.4 |
| 85° | 252.7 | 281.5 | 293.8 | 273.3 | 302.0 | 238.4 | 271.2 | 470.5 | 517.8 | 462.3 |
| 87.5° | 102.7 | 152.1 | 187.0 | 176.7 | 111.0 | 67.8 | 84.2 | 137.7 | 158.2 | 172.6 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4337.6 | 0° | 4337.6 | 4337.6 | 4337.6 | 4337.6 | 4337.6 | 4337.6 | 4337.6 | 4337.6 | 4337.6 | 4337.6 |
| 4339.6 | 2.5° | 4341.7 | 4356.1 | 4366.4 | 4378.7 | 4386.9 | 4399.2 | 4423.9 | 4438.3 | 4440.3 | 4450.6 |
| 4372.5 | 5° | 4380.7 | 4401.3 | 4423.9 | 4456.8 | 4493.8 | 4524.6 | 4571.8 | 4604.7 | 4617.0 | 4627.3 |
| 4452.7 | 7.5° | 4465.0 | 4493.8 | 4534.9 | 4592.4 | 4645.8 | 4686.9 | 4744.4 | 4783.5 | 4822.5 | 4836.9 |
| 4580.1 | 10° | 4590.3 | 4631.4 | 4691.0 | 4769.1 | 4826.6 | 4880.1 | 4939.6 | 4972.5 | 5011.6 | 5028.0 |
| 4732.1 | 12.5° | 4746.5 | 4789.6 | 4867.7 | 4976.6 | 5030.0 | 5067.0 | 5087.6 | 5079.4 | 5087.6 | 5102.0 |
| 4915.0 | 15° | 4925.3 | 4972.5 | 5060.9 | 5178.0 | 5215.0 | 5182.1 | 5136.9 | 5095.8 | 5089.6 | 5093.7 |
| 5136.9 | 17.5° | 5136.9 | 5171.8 | 5274.6 | 5373.2 | 5346.5 | 5210.9 | 5112.2 | 5046.5 | 5013.6 | 5003.3 |
| 5420.5 | 20° | 5432.8 | 5432.8 | 5517.0 | 5578.7 | 5399.9 | 5169.8 | 5015.7 | 4908.8 | 4841.0 | 4812.2 |
| 5806.7 | 22.5° | 5792.4 | 5759.5 | 5812.9 | 5769.8 | 5389.6 | 5054.7 | 4841.0 | 4656.1 | 4553.3 | 4512.2 |
| 6347.1 | 25° | 6248.5 | 6209.5 | 6195.1 | 5928.0 | 5315.7 | 4871.8 | 4524.6 | 4300.6 | 4210.2 | 4187.6 |
| 7125.9 | 27.5° | 6936.9 | 6838.2 | 6651.3 | 6014.3 | 5180.0 | 4584.2 | 4154.7 | 3947.2 | 3895.8 | 3897.9 |
| 8126.6 | 30° | 7853.3 | 7656.0 | 7197.8 | 6028.7 | 4958.1 | 4177.3 | 3776.6 | 3628.7 | 3604.0 | 3614.3 |
| 8967.0 | 32.5° | 8701.9 | 8514.9 | 7756.7 | 5962.9 | 4617.0 | 3778.7 | 3437.6 | 3339.0 | 3302.0 | 3314.3 |
| 9608.0 | 35° | 9367.6 | 9316.3 | 8274.5 | 5870.4 | 4197.9 | 3404.7 | 3133.5 | 3049.3 | 2977.3 | 2960.9 |
| 10212.1 | 37.5° | 9996.4 | 9975.8 | 8662.9 | 5741.0 | 3782.8 | 3139.7 | 2889.0 | 2778.0 | 2673.2 | 2615.7 |
| 10879.9 | 40° | 10686.8 | 10666.2 | 8917.6 | 5541.7 | 3415.0 | 2909.5 | 2669.1 | 2523.2 | 2393.8 | 2289.0 |
| 11636.1 | 42.5° | 11463.5 | 11342.3 | 9038.9 | 5256.1 | 3102.7 | 2714.3 | 2490.4 | 2293.1 | 2122.6 | 2026.0 |
| 12490.9 | 45° | 12312.1 | 12038.8 | 9036.8 | 4892.4 | 2839.7 | 2535.6 | 2299.3 | 2019.8 | 1861.6 | 1771.2 |
| 13368.3 | 47.5° | 13212.1 | 12704.6 | 8925.9 | 4489.6 | 2584.9 | 2338.3 | 2003.4 | 1789.7 | 1684.9 | 1629.4 |
| 14321.7 | 50° | 14140.8 | 13327.2 | 8736.8 | 4027.3 | 2323.9 | 2114.3 | 1818.5 | 1672.6 | 1592.4 | 1541.1 |
| 15266.9 | 52.5° | 15014.1 | 13892.2 | 8508.8 | 3503.4 | 2058.9 | 1896.5 | 1736.3 | 1623.3 | 1539.0 | 1481.5 |
| 16183.3 | 55° | 15825.7 | 14379.2 | 8186.2 | 2967.1 | 1843.1 | 1750.7 | 1697.2 | 1602.7 | 1506.1 | 1438.3 |
| 17114.1 | 57.5° | 16547.0 | 14695.6 | 7629.3 | 2463.7 | 1689.0 | 1650.0 | 1656.1 | 1567.8 | 1456.8 | 1399.3 |
| 18030.5 | 60° | 17147.0 | 14927.8 | 6805.4 | 1997.2 | 1563.7 | 1551.3 | 1592.4 | 1502.0 | 1372.6 | 1306.8 |
| 18805.1 | 62.5° | 17506.5 | 14923.7 | 5794.4 | 1635.6 | 1456.8 | 1460.9 | 1508.2 | 1419.8 | 1288.3 | 1226.7 |
| 19209.9 | 65° | 17475.7 | 14558.0 | 4684.8 | 1399.3 | 1354.1 | 1358.2 | 1419.8 | 1329.4 | 1218.5 | 1181.5 |
| 19006.5 | 67.5° | 16857.2 | 13666.2 | 3593.8 | 1245.2 | 1241.1 | 1259.6 | 1331.5 | 1267.8 | 1175.3 | 1171.2 |
| 17794.2 | 70° | 15182.6 | 11814.9 | 2589.0 | 1121.9 | 1124.0 | 1150.7 | 1245.2 | 1228.7 | 1152.7 | 1160.9 |
| 14960.7 | 72.5° | 12174.4 | 9008.1 | 1738.3 | 992.4 | 994.5 | 1037.7 | 1163.0 | 1197.9 | 1130.1 | 1239.0 |
| 10614.9 | 75° | 8108.1 | 5617.7 | 1117.8 | 854.8 | 856.8 | 912.3 | 1091.1 | 1138.3 | 1068.5 | 1234.9 |
| 5523.2 | 77.5° | 3895.8 | 2525.3 | 809.6 | 719.2 | 719.2 | 770.5 | 943.1 | 1019.2 | 910.3 | 959.6 |
| 1775.3 | 80° | 1345.9 | 949.3 | 637.0 | 579.4 | 567.1 | 602.0 | 795.2 | 883.5 | 784.9 | 723.3 |
| 579.4 | 82.5° | 530.1 | 493.1 | 511.6 | 450.0 | 408.9 | 431.5 | 618.5 | 729.4 | 577.4 | 521.9 |
| 326.7 | 85° | 304.1 | 320.5 | 361.6 | 297.9 | 236.3 | 265.1 | 454.1 | 524.0 | 435.6 | 384.2 |
| 106.8 | 87.5° | 82.2 | 113.0 | 166.4 | 154.1 | 106.8 | 113.0 | 215.7 | 289.7 | 250.7 | 193.1 |
| 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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180°
4337.6
4448.6
4625.3
4839.0
5036.2
5106.1
5108.1
5017.7
4806.1
4506.1
4191.7
3904.0
3649.3
3330.8
2973.2
2617.8
2299.3
2032.2
1767.1
1617.1
1522.6
1456.8
1411.6
1362.3
1278.1
1208.2
1179.4
1177.4
1158.9
1255.5
1245.2
879.4
678.1
519.9
392.5
199.3
0.0

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