

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: P957564

Luminaire Tested: **GALN-SB9D-850-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-850-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 86648 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

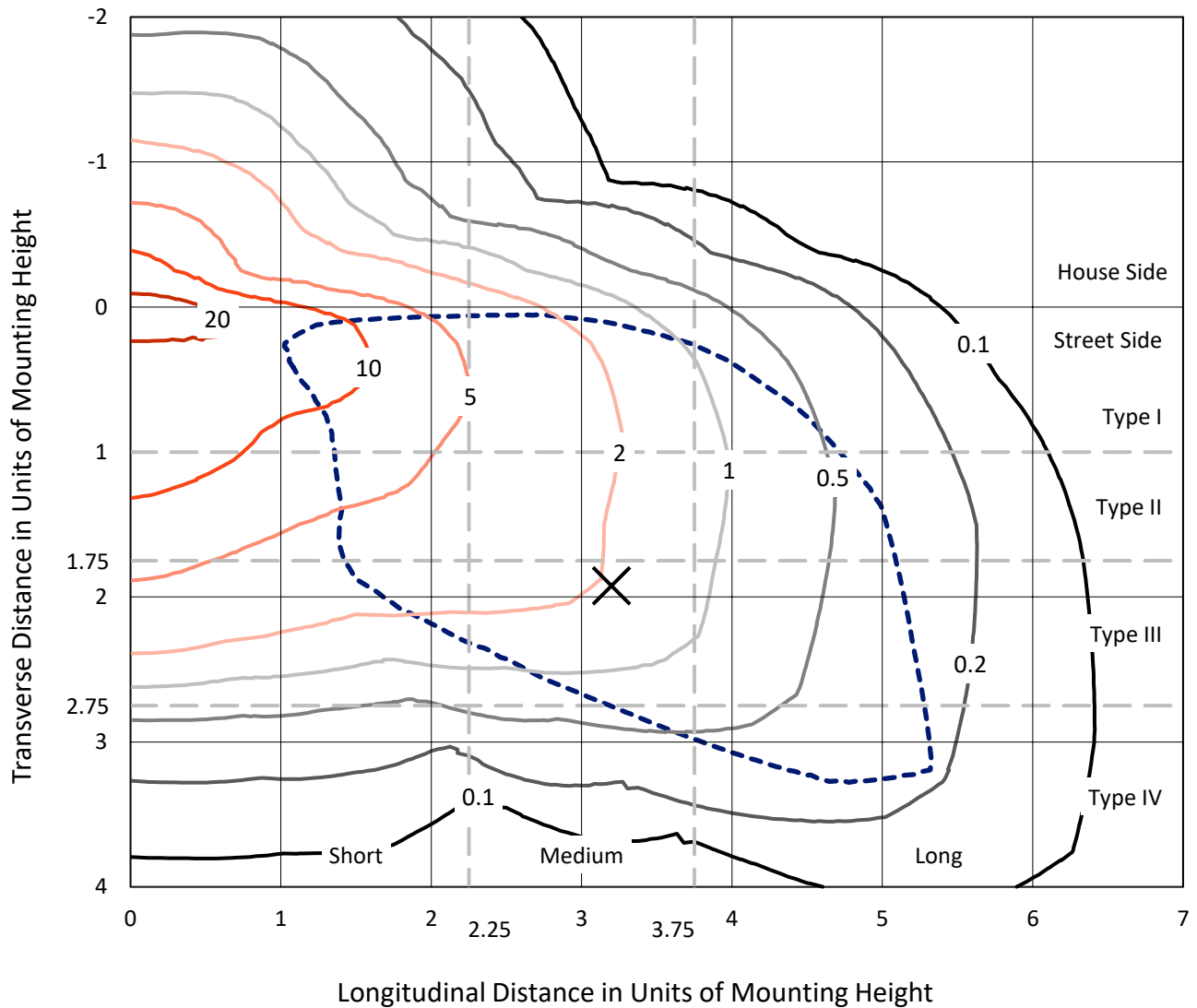
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

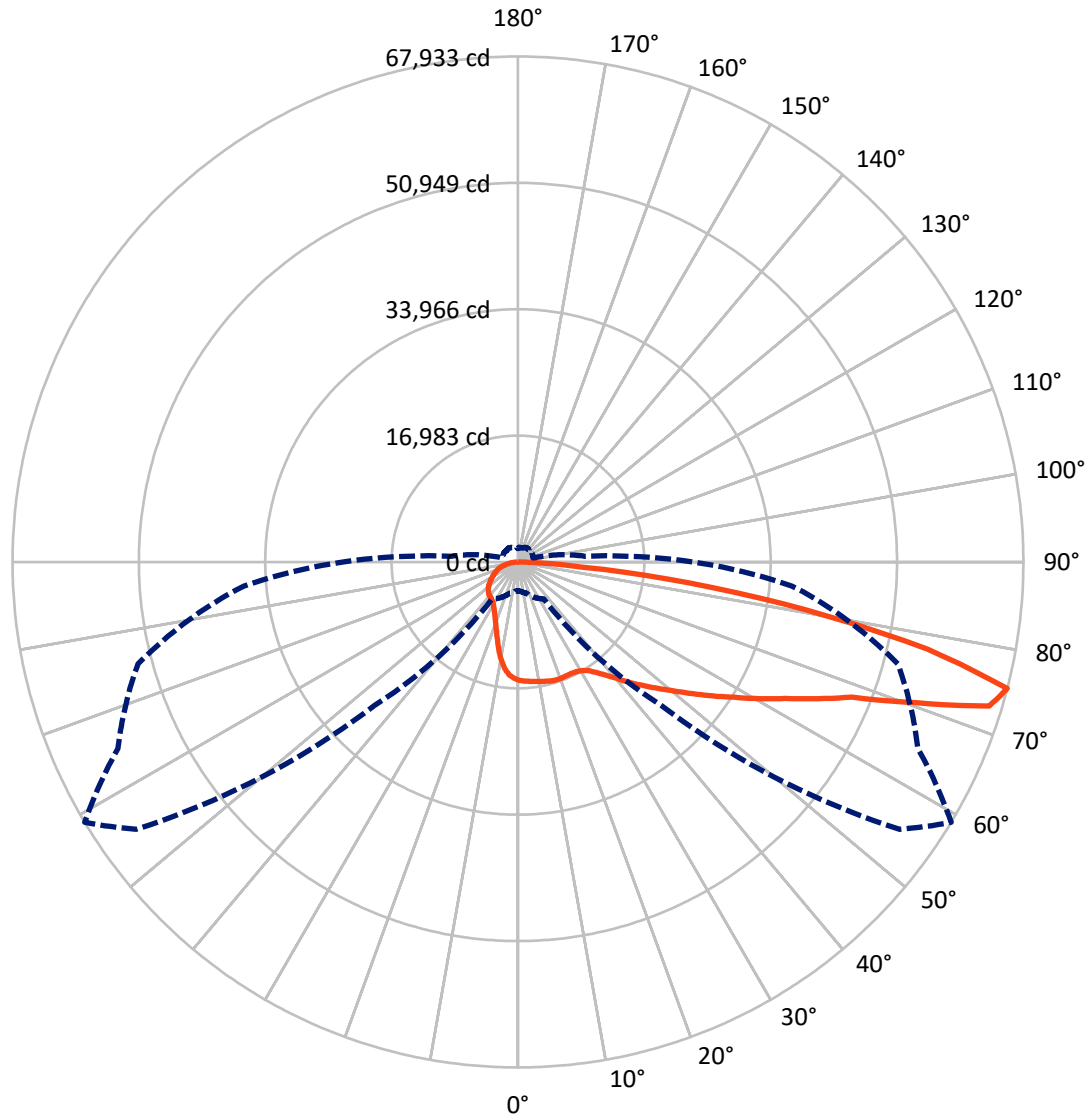
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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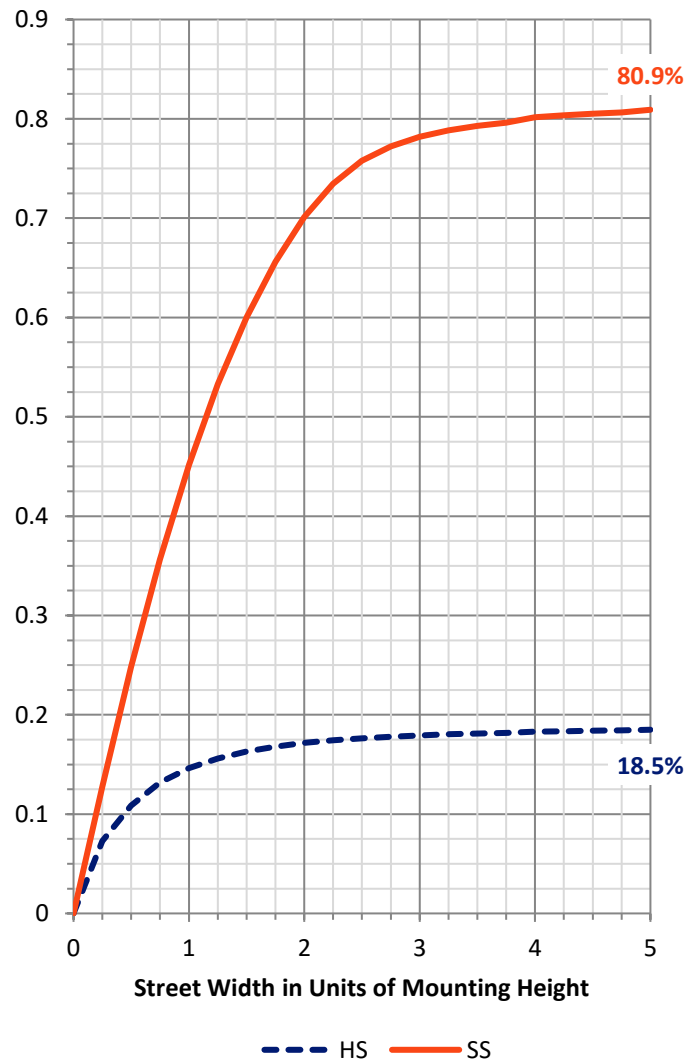
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16251.4 | 0.0 | 16251.4 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 70396.6 | 0.0 | 70396.6 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 86648.0 | 0.0 | 86648.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1426.0 | 1.6 |
| 10°-20° | 3645.1 | 4.2 |
| 20°-30° | 5536.6 | 6.4 |
| 30°-40° | 8230.0 | 9.5 |
| 40°-50° | 12239.5 | 14.1 |
| 50°-60° | 16613.6 | 19.2 |
| 60°-70° | 20282.5 | 23.4 |
| 70°-80° | 15917.4 | 18.4 |
| 80°-90° | 2757.3 | 3.2 |
| 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° | 86648.0 | 100.0 |
| 0°-180° | 86648.0 | 100.0 |

Coefficient of Utilization



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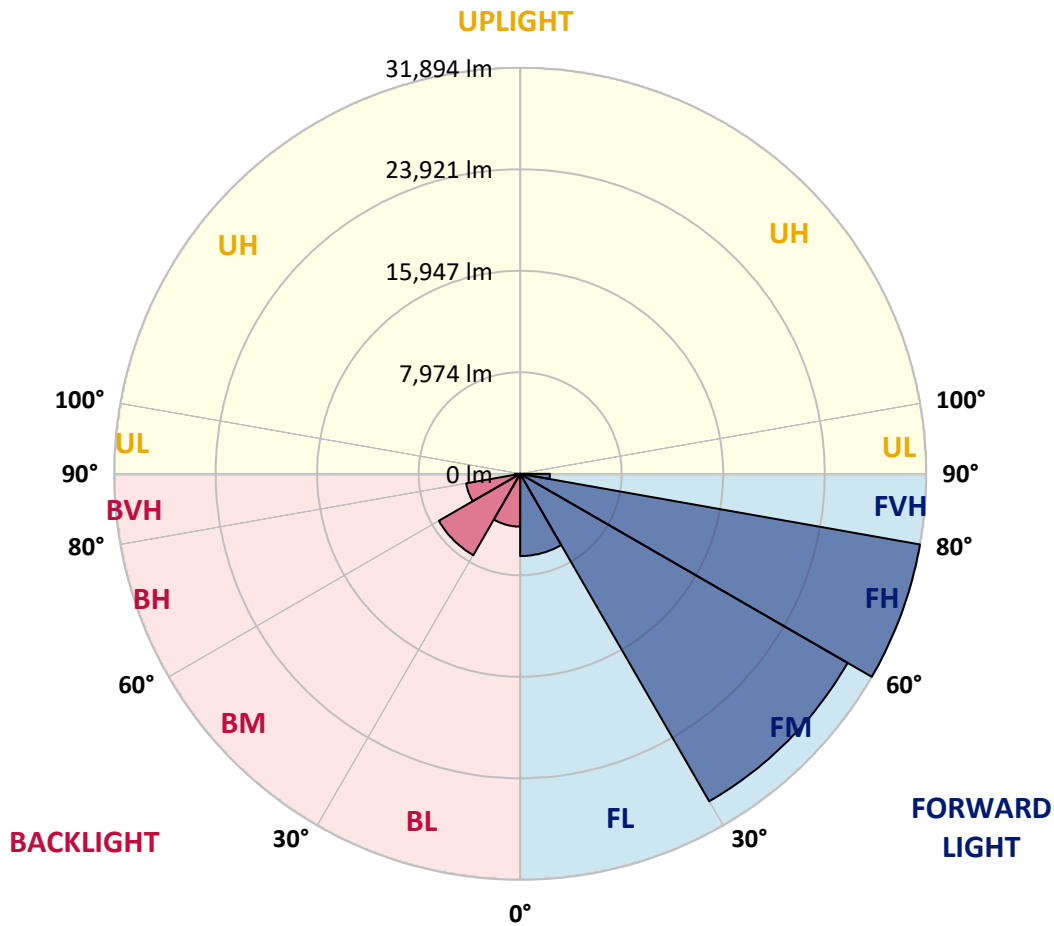
CATALOG NUMBER: GALN-SB9D-850-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6460.5 | 7.5 | | | |
| FM (30°-60°) | 29706.5 | 34.3 | | | |
| FH (60°-80°) | 31894.3 | 36.8 | | | G5 |
| FVH (80°-90°) | 2335.2 | 2.7 | | | G5 |
| BL (0°-30°) | 4147.2 | 4.8 | B4/5000 | | |
| BM (30°-60°) | 7376.5 | 8.5 | B4/8500 | | |
| BH (60°-80°) | 4305.6 | 5.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 422.1 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15904.0 | 15904.0 | 15904.0 | 15904.0 | 15904.0 | 15904.0 | 15904.0 | 15904.0 | 15904.0 | 15904.0 |
| 2.5° | 16039.2 | 15983.3 | 16039.2 | 16015.9 | 16006.6 | 15987.9 | 15992.6 | 16025.2 | 16006.6 | 16029.9 |
| 5° | 15932.0 | 15899.4 | 15955.3 | 15941.3 | 16001.9 | 16011.3 | 16071.9 | 16109.1 | 16132.4 | 16137.1 |
| 7.5° | 15754.9 | 15722.3 | 15801.5 | 15866.8 | 15997.3 | 16034.6 | 16160.4 | 16221.0 | 16253.6 | 16309.6 |
| 10° | 15107.0 | 15093.0 | 15288.8 | 15535.8 | 15843.5 | 16034.6 | 16225.7 | 16328.2 | 16379.5 | 16528.6 |
| 12.5° | 13960.3 | 13979.0 | 14235.3 | 14710.8 | 15326.1 | 15941.3 | 16300.3 | 16449.4 | 16528.6 | 16715.1 |
| 15° | 12864.9 | 12860.3 | 13139.9 | 13648.0 | 14510.3 | 15531.2 | 16337.5 | 16593.9 | 16729.1 | 17004.1 |
| 17.5° | 12231.0 | 12212.4 | 12408.1 | 12795.0 | 13596.7 | 14901.9 | 16244.3 | 16673.1 | 16962.1 | 17307.1 |
| 20° | 12114.5 | 12077.2 | 12179.7 | 12370.9 | 12939.5 | 14212.0 | 16001.9 | 16673.1 | 17148.6 | 17596.1 |
| 22.5° | 12538.7 | 12478.1 | 12436.1 | 12412.8 | 12664.5 | 13643.4 | 15726.9 | 16617.2 | 17423.6 | 18010.9 |
| 25° | 13391.7 | 13298.4 | 13084.0 | 12874.3 | 12799.7 | 13387.0 | 15484.5 | 16603.2 | 17833.8 | 18570.3 |
| 27.5° | 14771.4 | 14654.8 | 14221.4 | 13717.9 | 13265.8 | 13517.5 | 15377.3 | 16687.1 | 18285.9 | 19162.2 |
| 30° | 16482.0 | 16356.2 | 15810.8 | 15037.1 | 14226.0 | 14002.3 | 15512.5 | 16934.2 | 18863.9 | 19950.0 |
| 32.5° | 18015.6 | 17875.7 | 17409.6 | 16621.9 | 15526.5 | 14841.3 | 15941.3 | 17405.0 | 19772.9 | 21045.4 |
| 35° | 19376.6 | 19213.5 | 18794.0 | 18066.8 | 17120.6 | 16020.6 | 16715.1 | 18239.3 | 21064.0 | 22825.9 |
| 37.5° | 20709.8 | 20518.6 | 20061.8 | 19292.7 | 18630.9 | 17591.4 | 17782.5 | 19311.4 | 22779.3 | 24988.7 |
| 40° | 22201.3 | 21926.3 | 21371.6 | 20611.9 | 19968.6 | 19432.6 | 19185.5 | 20625.9 | 24522.6 | 27403.3 |
| 42.5° | 23646.3 | 23385.3 | 22723.4 | 22075.5 | 21269.1 | 21115.3 | 20812.3 | 22164.1 | 26429.1 | 30055.5 |
| 45° | 25203.2 | 24890.9 | 24089.1 | 23268.8 | 22760.7 | 22234.0 | 22387.8 | 23702.3 | 28298.2 | 32759.0 |
| 47.5° | 26662.1 | 26312.5 | 25366.3 | 24452.7 | 24173.0 | 23175.5 | 23832.8 | 25394.3 | 30241.9 | 35499.8 |
| 50° | 27449.9 | 27104.9 | 26317.2 | 25492.2 | 25273.1 | 24336.2 | 25398.9 | 27254.1 | 32278.9 | 38231.2 |
| 52.5° | 28107.1 | 27734.2 | 26704.1 | 26247.3 | 26182.0 | 25599.4 | 27328.7 | 29379.6 | 34315.8 | 40645.7 |
| 55° | 28806.3 | 28391.4 | 27077.0 | 26666.8 | 26965.1 | 27016.4 | 29617.3 | 31789.4 | 36469.3 | 42999.7 |
| 57.5° | 29612.7 | 29085.9 | 27435.9 | 27021.0 | 27729.5 | 28675.8 | 32246.2 | 34287.9 | 38585.5 | 45181.1 |
| 60° | 30372.4 | 29841.1 | 28125.7 | 27585.0 | 28554.6 | 30600.8 | 35262.1 | 37313.0 | 40981.4 | 47124.8 |
| 62.5° | 30521.6 | 30083.4 | 28675.8 | 28671.1 | 29673.3 | 32847.5 | 38832.5 | 40366.1 | 43074.2 | 49045.2 |
| 65° | 27939.3 | 27664.3 | 26829.9 | 28629.1 | 31276.7 | 36082.4 | 42808.5 | 44272.2 | 45735.8 | 50723.3 |
| 67.5° | 21264.4 | 21301.7 | 21241.1 | 24713.7 | 29980.9 | 40729.6 | 48565.1 | 48453.3 | 49021.9 | 52606.4 |
| 70° | 9723.3 | 9942.4 | 11368.7 | 17060.0 | 24019.2 | 41265.7 | 58083.3 | 56633.7 | 53147.1 | 55044.2 |
| 72.5° | 5253.2 | 5421.0 | 6003.6 | 8264.3 | 14440.4 | 36688.4 | 65196.3 | 66226.5 | 58633.4 | 56685.0 |
| 75° | 3854.8 | 3948.0 | 4353.6 | 5253.2 | 6064.2 | 27268.1 | 62646.7 | 67932.5 | 59318.6 | 52858.1 |
| 77.5° | 2885.3 | 2927.2 | 3258.2 | 4162.5 | 3104.4 | 14375.2 | 50056.7 | 56260.8 | 50779.2 | 43428.5 |
| 80° | 2092.9 | 2139.5 | 2386.5 | 3123.0 | 2176.8 | 5257.8 | 34371.8 | 39489.8 | 34777.3 | 27682.9 |
| 82.5° | 1445.0 | 1463.6 | 1570.8 | 2125.5 | 1519.6 | 2041.6 | 19502.5 | 23156.9 | 19413.9 | 9714.0 |
| 85° | 871.6 | 895.0 | 941.6 | 1239.9 | 862.3 | 969.5 | 8418.1 | 8707.1 | 5803.2 | 2321.3 |
| 87.5° | 358.9 | 382.2 | 419.5 | 522.1 | 340.3 | 270.4 | 1389.0 | 1743.3 | 1086.1 | 680.5 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 15904.0 | 0° | 15904.0 | 15904.0 | 15904.0 | 15904.0 | 15904.0 | 15904.0 | 15904.0 | 15904.0 | 15904.0 | 15904.0 |
| 15950.7 | 2.5° | 15927.4 | 15894.7 | 15806.2 | 15685.0 | 15573.1 | 15433.3 | 15372.7 | 15321.4 | 15274.8 | 15186.2 |
| 16076.5 | 5° | 16025.2 | 15936.7 | 15699.0 | 15391.3 | 15041.7 | 14659.5 | 14286.6 | 14030.2 | 13811.2 | 13648.0 |
| 16221.0 | 7.5° | 16174.4 | 16006.6 | 15573.1 | 14943.8 | 14142.1 | 13321.7 | 12580.6 | 12053.9 | 11657.7 | 11513.2 |
| 16426.1 | 10° | 16328.2 | 16127.8 | 15372.7 | 14263.3 | 12878.9 | 11615.7 | 10632.2 | 10091.5 | 9774.6 | 9672.0 |
| 16668.5 | 12.5° | 16510.0 | 16216.3 | 15060.4 | 13317.1 | 11466.6 | 10082.2 | 9224.5 | 8907.6 | 8744.4 | 8688.5 |
| 16966.8 | 15° | 16775.7 | 16290.9 | 14589.6 | 12133.1 | 10119.5 | 8963.5 | 8408.8 | 8189.7 | 8105.8 | 8101.2 |
| 17274.4 | 17.5° | 16976.1 | 16304.9 | 13857.8 | 10865.3 | 9084.7 | 8287.6 | 7830.8 | 7746.9 | 7802.9 | 7886.8 |
| 17577.4 | 20° | 17199.9 | 16179.1 | 12897.6 | 9709.3 | 8357.5 | 7695.7 | 7504.5 | 7560.5 | 7695.7 | 7816.8 |
| 17978.3 | 22.5° | 17358.3 | 15950.7 | 11736.9 | 8809.7 | 7728.3 | 7355.4 | 7346.1 | 7462.6 | 7537.2 | 7597.8 |
| 18449.1 | 25° | 17498.2 | 15563.8 | 10506.4 | 8054.6 | 7210.9 | 7150.3 | 7252.8 | 7215.6 | 7164.3 | 7215.6 |
| 18919.8 | 27.5° | 17600.7 | 14953.2 | 9406.3 | 7392.7 | 6847.3 | 7010.5 | 6949.9 | 6866.0 | 6861.3 | 6889.3 |
| 19474.5 | 30° | 17568.1 | 14137.4 | 8502.0 | 6763.4 | 6591.0 | 6749.4 | 6604.9 | 6591.0 | 6577.0 | 6591.0 |
| 20308.9 | 32.5° | 17568.1 | 13209.9 | 7807.5 | 6329.9 | 6427.8 | 6367.2 | 6353.2 | 6320.6 | 6264.7 | 6260.0 |
| 21441.6 | 35° | 17666.0 | 12282.3 | 7210.9 | 6096.9 | 6292.6 | 6148.1 | 6157.5 | 6078.2 | 5961.7 | 5905.8 |
| 22942.5 | 37.5° | 17866.4 | 11536.5 | 6618.9 | 5985.0 | 6054.9 | 6050.3 | 6013.0 | 5877.8 | 5672.7 | 5495.6 |
| 24816.3 | 40° | 18351.2 | 11317.4 | 6213.4 | 5933.7 | 5943.0 | 5999.0 | 5901.1 | 5640.1 | 5173.9 | 4884.9 |
| 26718.1 | 42.5° | 19111.0 | 11685.7 | 6124.8 | 5807.9 | 5868.5 | 5924.4 | 5733.3 | 5127.3 | 4796.4 | 4623.9 |
| 28713.1 | 45° | 20075.8 | 12328.9 | 6315.9 | 5626.1 | 5691.3 | 5789.2 | 5220.6 | 4931.6 | 4782.4 | 4787.1 |
| 30689.4 | 47.5° | 21297.1 | 13004.8 | 6670.2 | 5467.6 | 5435.0 | 5490.9 | 4880.3 | 4703.2 | 4498.1 | 4549.3 |
| 32586.5 | 50° | 22709.4 | 13690.0 | 7005.8 | 5253.2 | 5150.6 | 4968.8 | 4661.2 | 4493.4 | 4232.4 | 4111.2 |
| 34418.4 | 52.5° | 24238.3 | 14351.9 | 7141.0 | 4992.2 | 4843.0 | 4633.2 | 4512.1 | 4307.0 | 3990.0 | 3789.6 |
| 36147.7 | 55° | 25687.9 | 14953.2 | 6991.8 | 4679.9 | 4535.4 | 4372.2 | 4353.6 | 4227.7 | 3887.4 | 3607.8 |
| 37685.9 | 57.5° | 27058.3 | 15456.6 | 6618.9 | 4362.9 | 4223.1 | 4125.2 | 4251.0 | 4190.4 | 3761.6 | 3402.7 |
| 39140.2 | 60° | 28219.0 | 15801.5 | 6078.2 | 4041.3 | 3943.4 | 3892.1 | 4083.2 | 4064.6 | 3584.5 | 3183.6 |
| 40445.3 | 62.5° | 29141.9 | 15936.7 | 5481.6 | 3733.6 | 3710.3 | 3617.1 | 3850.2 | 3850.2 | 3360.7 | 2969.2 |
| 41592.0 | 65° | 29864.4 | 15806.2 | 4875.6 | 3430.7 | 3477.3 | 3337.4 | 3565.8 | 3537.9 | 3123.0 | 2778.1 |
| 42911.1 | 67.5° | 30503.0 | 15377.3 | 4204.4 | 3132.3 | 3239.5 | 3062.4 | 3267.5 | 3202.3 | 2862.0 | 2587.0 |
| 44053.1 | 70° | 30787.3 | 14379.8 | 3440.0 | 2834.0 | 2964.5 | 2792.1 | 2969.2 | 2848.0 | 2568.3 | 2381.9 |
| 42799.2 | 72.5° | 28503.3 | 11951.3 | 2708.2 | 2521.7 | 2633.6 | 2493.7 | 2647.6 | 2507.7 | 2251.4 | 2167.5 |
| 36958.7 | 75° | 23581.1 | 8968.2 | 2083.6 | 2181.4 | 2265.3 | 2158.1 | 2260.7 | 2158.1 | 1925.1 | 1985.7 |
| 27300.7 | 77.5° | 17125.3 | 6054.9 | 1594.1 | 1822.5 | 1859.8 | 1803.9 | 1892.5 | 1775.9 | 1566.2 | 1552.2 |
| 13606.1 | 80° | 8516.0 | 3547.2 | 1249.2 | 1440.3 | 1426.3 | 1389.0 | 1491.6 | 1435.7 | 1258.5 | 1333.1 |
| 3673.0 | 82.5° | 2465.8 | 1519.6 | 908.9 | 1011.5 | 983.5 | 992.8 | 1067.4 | 1095.4 | 1640.7 | 1626.8 |
| 1142.0 | 85° | 773.8 | 596.6 | 545.4 | 564.0 | 536.0 | 550.0 | 629.3 | 1249.2 | 1156.0 | 675.9 |
| 354.3 | 87.5° | 200.4 | 205.1 | 135.2 | 144.5 | 149.2 | 177.1 | 200.4 | 759.8 | 363.6 | 237.7 |
| 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°
15904.0
15144.3
13512.8
11261.5
9513.5
8702.5
8119.8
7919.4
7858.8
7630.4
7248.2
6935.9
6642.2
6320.6
5961.7
5556.2
4922.2
4623.9
4810.4
4679.9
4143.8
3784.9
3607.8
3384.0
3169.6
2955.2
2759.4
2568.3
2344.6
2097.5
1813.2
1482.3
1319.1
1664.1
731.8
251.7
0.0

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