

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: STREETWORKS

Report Number: P849973

Luminaire Tested: **GLAN-SB7B-735-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P849973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB7B-735-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38954 lumens
Efficiency: N/A
Efficacy: 151.7 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

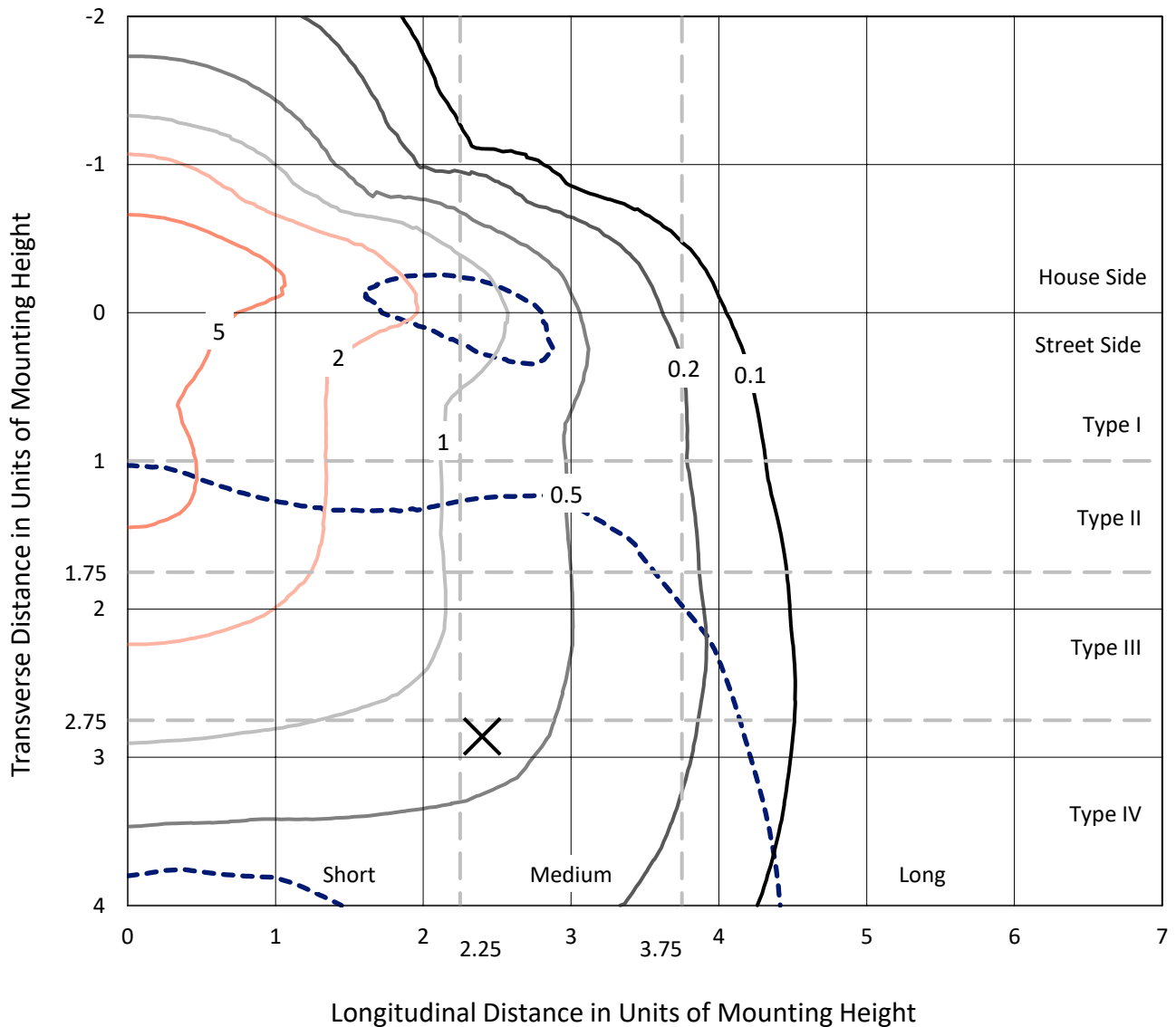
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

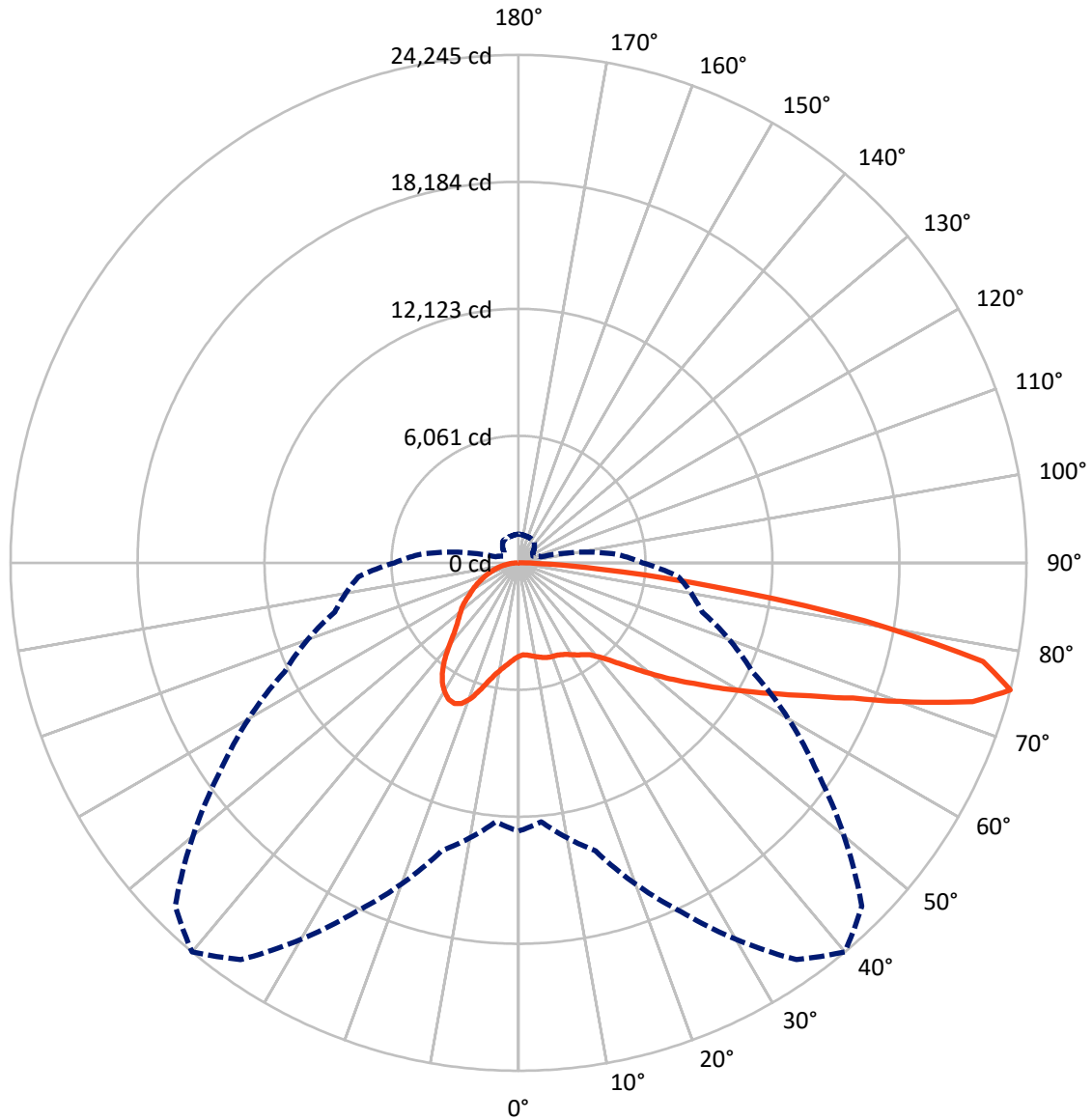
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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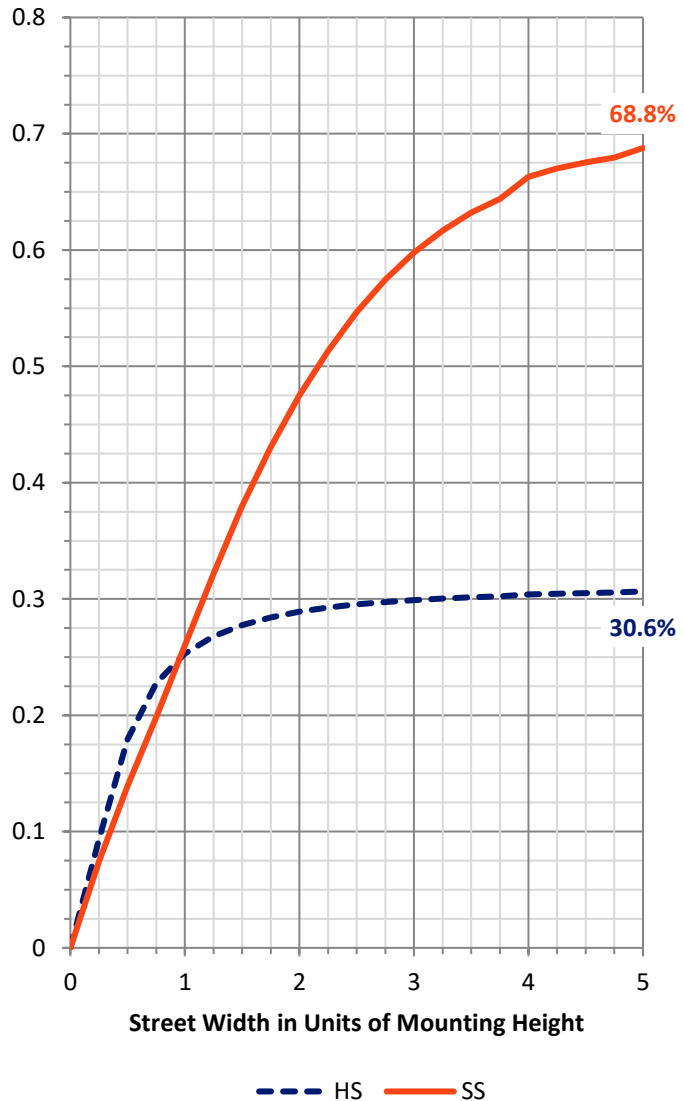
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12069.3 | 0.0 | 12069.3 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 26884.8 | 0.0 | 26884.8 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 38954.0 | 0.0 | 38954.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 444.6 | 1.1 |
| 10°-20° | 1492.9 | 3.8 |
| 20°-30° | 2725.8 | 7.0 |
| 30°-40° | 3866.0 | 9.9 |
| 40°-50° | 5220.2 | 13.4 |
| 50°-60° | 7022.6 | 18.0 |
| 60°-70° | 8913.3 | 22.9 |
| 70°-80° | 8089.4 | 20.8 |
| 80°-90° | 1179.2 | 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° | 38954.0 | 100.0 |
| 0°-180° | 38954.0 | 100.0 |

Coefficient of Utilization

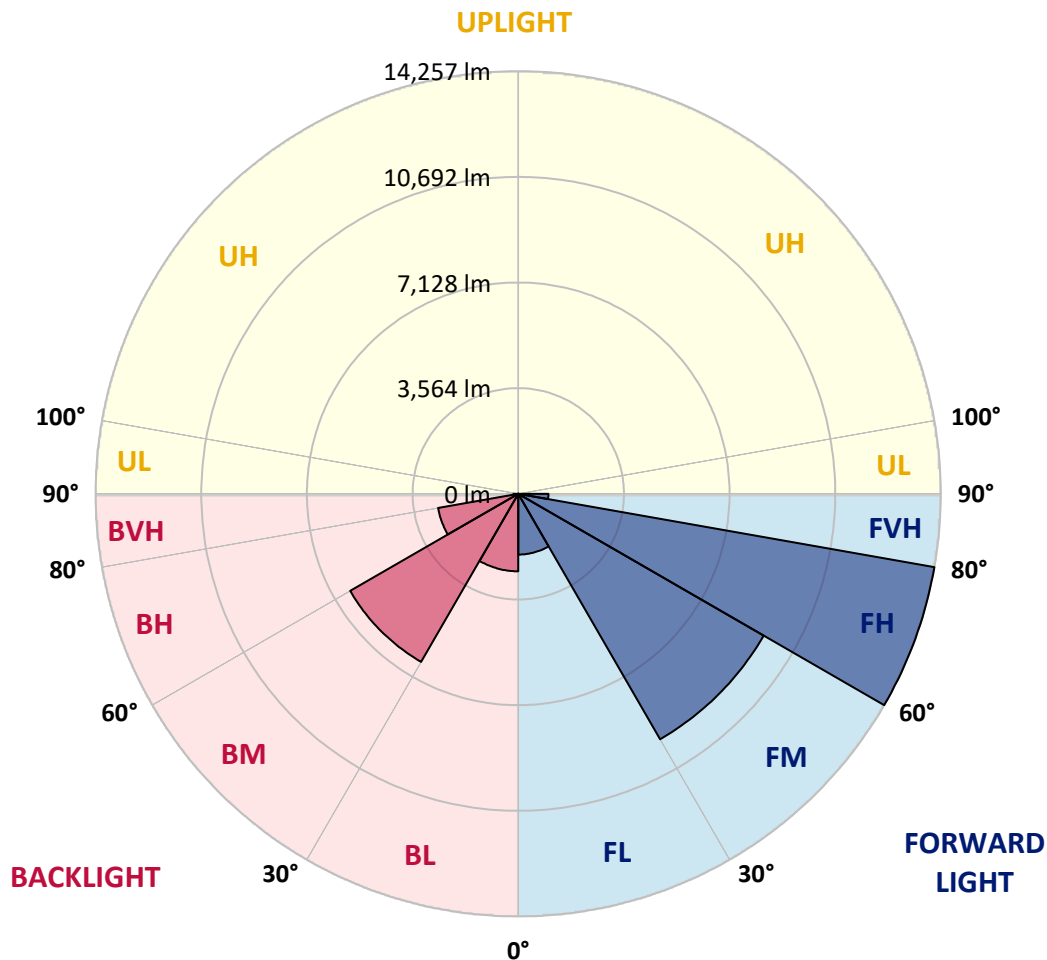


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2049.0 | 5.3 | | | |
| FM (30°-60°) | 9562.3 | 24.5 | | | |
| FH (60°-80°) | 14256.6 | 36.6 | | | G5 |
| FVH (80°-90°) | 1016.8 | 2.6 | | | G5 |
| BL (0°-30°) | 2614.3 | 6.7 | B4/5000 | | |
| BM (30°-60°) | 6546.5 | 16.8 | B4/8500 | | |
| BH (60°-80°) | 2746.1 | 7.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 162.3 | 0.4 | | | G2/225 |
| 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° | 40° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4454.4 | 4454.4 | 4454.4 | 4454.4 | 4454.4 | 4454.4 | 4454.4 | 4454.4 | 4454.4 | 4454.4 |
| 2.5° | 4386.3 | 4411.1 | 4404.9 | 4396.6 | 4396.6 | 4398.7 | 4396.6 | 4411.1 | 4425.5 | 4440.0 |
| 5° | 4431.7 | 4456.5 | 4444.1 | 4433.8 | 4425.5 | 4423.5 | 4417.3 | 4415.2 | 4423.5 | 4442.0 |
| 7.5° | 4520.6 | 4545.3 | 4526.8 | 4508.2 | 4491.6 | 4483.4 | 4475.1 | 4462.7 | 4456.5 | 4466.8 |
| 10° | 4619.7 | 4644.5 | 4621.8 | 4588.7 | 4561.9 | 4551.5 | 4543.3 | 4530.9 | 4522.6 | 4528.8 |
| 12.5° | 4718.9 | 4743.7 | 4712.7 | 4667.2 | 4632.1 | 4625.9 | 4615.6 | 4611.5 | 4609.4 | 4607.3 |
| 15° | 4811.9 | 4832.5 | 4793.3 | 4739.6 | 4702.4 | 4692.0 | 4681.7 | 4687.9 | 4698.2 | 4710.6 |
| 17.5° | 4884.2 | 4904.8 | 4847.0 | 4776.7 | 4741.6 | 4737.5 | 4731.3 | 4752.0 | 4780.9 | 4811.9 |
| 20° | 4950.3 | 4971.0 | 4896.6 | 4801.5 | 4760.2 | 4760.2 | 4762.3 | 4805.7 | 4847.0 | 4892.4 |
| 22.5° | 5043.3 | 5059.8 | 4968.9 | 4838.7 | 4778.8 | 4782.9 | 4799.5 | 4842.9 | 4894.5 | 4956.5 |
| 25° | 5181.7 | 5194.1 | 5082.5 | 4909.0 | 4840.8 | 4853.2 | 4867.7 | 4888.3 | 4937.9 | 5010.2 |
| 27.5° | 5404.8 | 5415.2 | 5268.5 | 5032.9 | 4929.6 | 4950.3 | 4971.0 | 4956.5 | 4979.2 | 5041.2 |
| 30° | 5718.9 | 5725.1 | 5539.1 | 5227.2 | 5080.5 | 5090.8 | 5094.9 | 5035.0 | 4991.6 | 5041.2 |
| 32.5° | 6090.8 | 6088.7 | 5867.6 | 5462.7 | 5251.9 | 5241.6 | 5206.5 | 5088.7 | 4987.5 | 5030.9 |
| 35° | 6667.2 | 6644.5 | 6359.4 | 5793.3 | 5446.2 | 5382.1 | 5299.5 | 5148.6 | 5008.1 | 5020.5 |
| 37.5° | 7621.7 | 7551.5 | 7156.9 | 6334.6 | 5735.4 | 5572.2 | 5450.3 | 5245.7 | 5053.6 | 5016.4 |
| 40° | 8698.1 | 8609.3 | 8175.4 | 7076.3 | 6169.3 | 5906.9 | 5710.6 | 5384.2 | 5128.0 | 5035.0 |
| 42.5° | 9975.0 | 9848.9 | 9382.0 | 7950.2 | 6718.9 | 6338.7 | 6043.2 | 5559.8 | 5237.5 | 5094.9 |
| 45° | 11543.1 | 11375.8 | 10714.6 | 8935.7 | 7411.0 | 6904.8 | 6510.2 | 5826.3 | 5404.8 | 5210.6 |
| 47.5° | 13127.8 | 13169.1 | 12229.1 | 10063.8 | 8241.5 | 7603.1 | 7094.9 | 6227.1 | 5648.6 | 5396.6 |
| 50° | 14811.6 | 14840.6 | 13735.2 | 11313.8 | 9183.7 | 8392.4 | 7751.9 | 6675.5 | 5987.5 | 5661.0 |
| 52.5° | 16125.7 | 16129.8 | 15103.0 | 12621.6 | 10165.1 | 9260.1 | 8460.5 | 7187.8 | 6380.0 | 6012.3 |
| 55° | 16948.0 | 16937.6 | 16061.6 | 13859.2 | 11293.1 | 10171.3 | 9245.7 | 7770.5 | 6859.3 | 6425.5 |
| 57.5° | 17545.0 | 17514.1 | 16722.8 | 14923.2 | 12495.6 | 11247.7 | 10134.1 | 8431.6 | 7425.4 | 6917.2 |
| 60° | 17772.3 | 17753.7 | 17171.1 | 15842.6 | 13760.0 | 12437.7 | 11158.8 | 9171.3 | 8068.0 | 7497.8 |
| 62.5° | 17859.1 | 17894.2 | 17611.2 | 16733.1 | 15113.3 | 13755.9 | 12284.8 | 10055.6 | 8791.1 | 8154.8 |
| 65° | 18164.9 | 18228.9 | 18171.1 | 17898.3 | 16642.2 | 15299.2 | 13778.6 | 11107.2 | 9580.4 | 8859.3 |
| 67.5° | 18770.2 | 18834.3 | 18859.1 | 19292.9 | 18509.9 | 17222.7 | 15642.2 | 12417.1 | 10503.9 | 9590.7 |
| 70° | 18755.8 | 18737.2 | 19175.2 | 20402.4 | 20848.7 | 19885.9 | 18154.5 | 14028.6 | 11605.1 | 10198.1 |
| 72.5° | 17071.9 | 16923.2 | 17958.3 | 20390.0 | 22794.9 | 22666.8 | 21222.6 | 16107.1 | 12555.5 | 10272.5 |
| 75° | 12807.6 | 12410.9 | 14239.3 | 18375.6 | 23119.3 | 24245.3 | 23173.0 | 17396.3 | 12330.3 | 9076.2 |
| 77.5° | 5477.1 | 5078.4 | 7233.3 | 13603.0 | 20691.7 | 22664.8 | 21383.8 | 15177.3 | 9842.7 | 6001.9 |
| 80° | 1433.9 | 1431.8 | 2185.9 | 6167.2 | 14072.0 | 16737.2 | 14683.5 | 9801.4 | 5623.8 | 2144.6 |
| 82.5° | 593.0 | 578.5 | 803.7 | 2398.7 | 6875.9 | 9392.3 | 7665.1 | 4371.8 | 2030.9 | 580.6 |
| 85° | 221.1 | 219.0 | 390.5 | 828.5 | 2425.6 | 3873.9 | 2803.7 | 1117.7 | 506.2 | 283.1 |
| 87.5° | 62.0 | 59.9 | 84.7 | 287.2 | 590.9 | 896.7 | 479.3 | 183.9 | 142.6 | 111.6 |
| 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° |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 4454.4 | 0° | 4454.4 | 4454.4 | 4454.4 | 4454.4 | 4454.4 | 4454.4 | 4454.4 | 4454.4 | 4454.4 | 4454.4 |
| 4462.7 | 2.5° | 4468.9 | 4479.2 | 4497.8 | 4512.3 | 4530.9 | 4551.5 | 4580.5 | 4599.1 | 4617.7 | 4630.1 |
| 4473.0 | 5° | 4487.5 | 4510.2 | 4557.7 | 4605.3 | 4661.0 | 4712.7 | 4772.6 | 4816.0 | 4851.1 | 4861.5 |
| 4510.2 | 7.5° | 4528.8 | 4566.0 | 4646.6 | 4727.2 | 4816.0 | 4900.7 | 4987.5 | 5061.9 | 5121.8 | 5144.5 |
| 4576.3 | 10° | 4601.1 | 4650.7 | 4764.4 | 4878.0 | 4995.8 | 5125.9 | 5237.5 | 5344.9 | 5429.6 | 5464.7 |
| 4654.9 | 12.5° | 4692.0 | 4754.0 | 4902.8 | 5059.8 | 5223.0 | 5402.8 | 5547.4 | 5679.6 | 5785.0 | 5832.5 |
| 4764.4 | 15° | 4809.8 | 4890.4 | 5080.5 | 5291.2 | 5530.9 | 5780.9 | 5964.7 | 6111.4 | 6229.2 | 6287.0 |
| 4878.0 | 17.5° | 4937.9 | 5045.3 | 5285.0 | 5603.2 | 5946.1 | 6274.6 | 6489.5 | 6597.0 | 6718.9 | 6774.6 |
| 4983.4 | 20° | 5061.9 | 5194.1 | 5537.1 | 5999.9 | 6456.5 | 6805.6 | 6979.2 | 7008.1 | 7016.4 | 7022.6 |
| 5082.5 | 22.5° | 5190.0 | 5367.6 | 5853.2 | 6499.8 | 6989.5 | 7231.2 | 7256.0 | 7132.1 | 6958.5 | 6877.9 |
| 5179.6 | 25° | 5330.5 | 5566.0 | 6266.4 | 7051.5 | 7448.2 | 7477.1 | 7287.0 | 6985.4 | 6656.9 | 6506.0 |
| 5258.1 | 27.5° | 5466.8 | 5795.3 | 6762.2 | 7578.3 | 7778.7 | 7524.6 | 7115.5 | 6687.9 | 6291.2 | 6132.1 |
| 5313.9 | 30° | 5603.2 | 6057.7 | 7309.7 | 8039.1 | 7929.6 | 7406.9 | 6844.9 | 6367.6 | 5968.9 | 5801.5 |
| 5363.5 | 32.5° | 5741.6 | 6363.5 | 7939.9 | 8371.7 | 7902.7 | 7156.9 | 6508.1 | 6008.1 | 5656.9 | 5481.3 |
| 5406.9 | 35° | 5898.6 | 6739.5 | 8537.0 | 8553.5 | 7723.0 | 6789.1 | 6063.9 | 5578.4 | 5272.6 | 5132.1 |
| 5458.6 | 37.5° | 6103.2 | 7216.8 | 9063.8 | 8599.0 | 7408.9 | 6249.9 | 5512.3 | 5070.1 | 4818.1 | 4754.0 |
| 5535.0 | 40° | 6357.3 | 7791.1 | 9466.7 | 8526.7 | 6944.1 | 5594.9 | 4909.0 | 4555.7 | 4413.1 | 4427.6 |
| 5638.3 | 42.5° | 6687.9 | 8433.7 | 9749.8 | 8340.7 | 6297.4 | 4919.3 | 4380.1 | 4223.0 | 4291.2 | 4349.1 |
| 5793.3 | 45° | 7117.6 | 9101.0 | 9925.4 | 8024.6 | 5566.0 | 4347.0 | 4068.1 | 4105.3 | 4156.9 | 4163.1 |
| 6043.2 | 47.5° | 7667.2 | 9776.6 | 10041.1 | 7547.3 | 4820.1 | 3944.1 | 3869.7 | 3878.0 | 3867.7 | 3824.3 |
| 6417.2 | 50° | 8353.1 | 10433.6 | 10144.4 | 6915.1 | 4185.9 | 3692.1 | 3592.9 | 3564.0 | 3421.4 | 3280.9 |
| 6915.1 | 52.5° | 9134.1 | 11036.9 | 10187.8 | 6130.0 | 3692.1 | 3481.3 | 3320.2 | 3138.4 | 2871.8 | 2828.4 |
| 7541.1 | 55° | 10001.8 | 11594.8 | 10076.2 | 5165.2 | 3276.8 | 3210.7 | 2966.9 | 2747.9 | 2718.9 | 2681.8 |
| 8365.5 | 57.5° | 11039.0 | 12196.0 | 9848.9 | 4088.7 | 2851.2 | 2894.6 | 2657.0 | 2681.8 | 2630.1 | 2572.3 |
| 9425.4 | 60° | 12173.3 | 12817.9 | 9450.2 | 3107.4 | 2411.1 | 2499.9 | 2576.4 | 2574.3 | 2559.9 | 2512.3 |
| 10543.1 | 62.5° | 13193.9 | 13227.0 | 8665.1 | 2380.1 | 2024.7 | 2194.2 | 2402.8 | 2400.8 | 2388.4 | 2361.5 |
| 11710.5 | 65° | 13801.3 | 13165.0 | 7355.2 | 1873.9 | 1706.6 | 1942.1 | 2167.3 | 2183.8 | 2185.9 | 2183.8 |
| 12588.6 | 67.5° | 13693.9 | 12439.8 | 5557.7 | 1491.7 | 1444.2 | 1685.9 | 1933.8 | 1956.6 | 1973.1 | 1977.2 |
| 12700.1 | 70° | 12479.0 | 10846.9 | 3623.9 | 1190.1 | 1210.7 | 1460.7 | 1712.8 | 1735.5 | 1750.0 | 1766.5 |
| 11020.4 | 72.5° | 9727.0 | 7975.0 | 2074.3 | 962.8 | 1006.2 | 1266.5 | 1493.8 | 1520.6 | 1528.9 | 1559.9 |
| 7669.2 | 75° | 5927.5 | 4690.0 | 1119.8 | 758.2 | 826.4 | 1082.6 | 1276.8 | 1307.8 | 1322.3 | 1359.5 |
| 3766.4 | 77.5° | 2818.1 | 2030.9 | 638.4 | 590.9 | 665.3 | 884.3 | 1078.5 | 1113.6 | 1074.4 | 1095.0 |
| 1039.2 | 80° | 952.5 | 754.1 | 402.9 | 450.4 | 508.3 | 690.1 | 863.6 | 898.7 | 816.1 | 812.0 |
| 345.0 | 82.5° | 332.6 | 305.8 | 256.2 | 299.6 | 328.5 | 493.8 | 652.9 | 698.3 | 607.4 | 605.4 |
| 155.0 | 85° | 130.2 | 124.0 | 142.6 | 163.2 | 196.3 | 303.7 | 429.7 | 452.5 | 374.0 | 301.6 |
| 45.5 | 87.5° | 26.9 | 28.9 | 35.1 | 37.2 | 59.9 | 105.4 | 155.0 | 190.1 | 150.8 | 128.1 |
| 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° |
|--------|
| 4454.4 |
| 4621.8 |
| 4865.6 |
| 5146.6 |
| 5466.8 |
| 5832.5 |
| 6282.9 |
| 6772.6 |
| 7039.1 |
| 6900.7 |
| 6528.8 |
| 6150.7 |
| 5820.1 |
| 5504.0 |
| 5163.1 |
| 4799.5 |
| 4477.2 |
| 4402.8 |
| 4204.4 |
| 3857.3 |
| 3299.5 |
| 2842.9 |
| 2688.0 |
| 2561.9 |
| 2495.8 |
| 2351.2 |
| 2183.8 |
| 1981.4 |
| 1774.8 |
| 1572.3 |
| 1363.6 |
| 1078.5 |
| 803.7 |
| 576.4 |
| 297.5 |
| 117.8 |
| 0.0 |

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