

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: P941958

Luminaire Tested: **GLAN-SB5D-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB5D-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36100 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

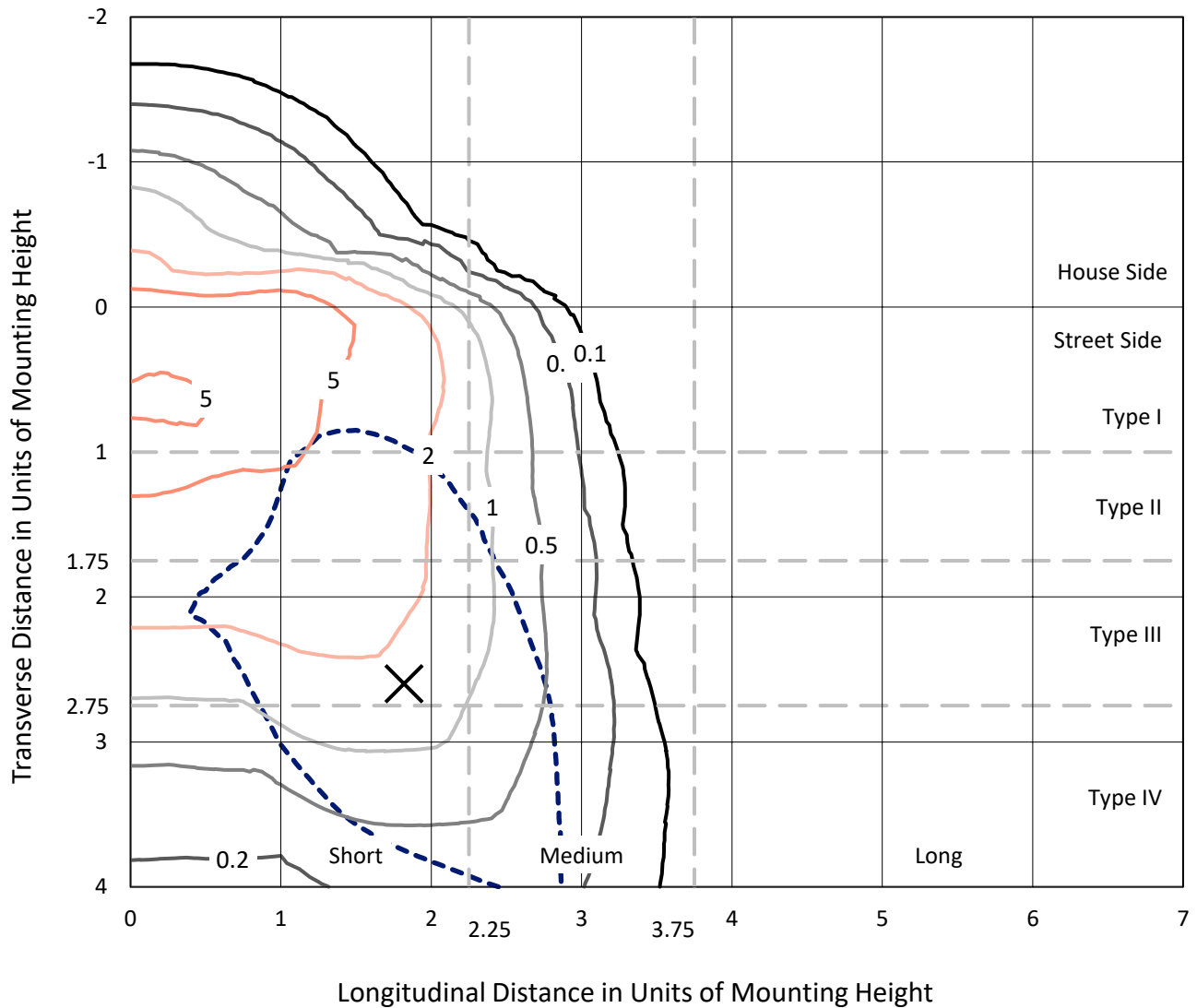
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

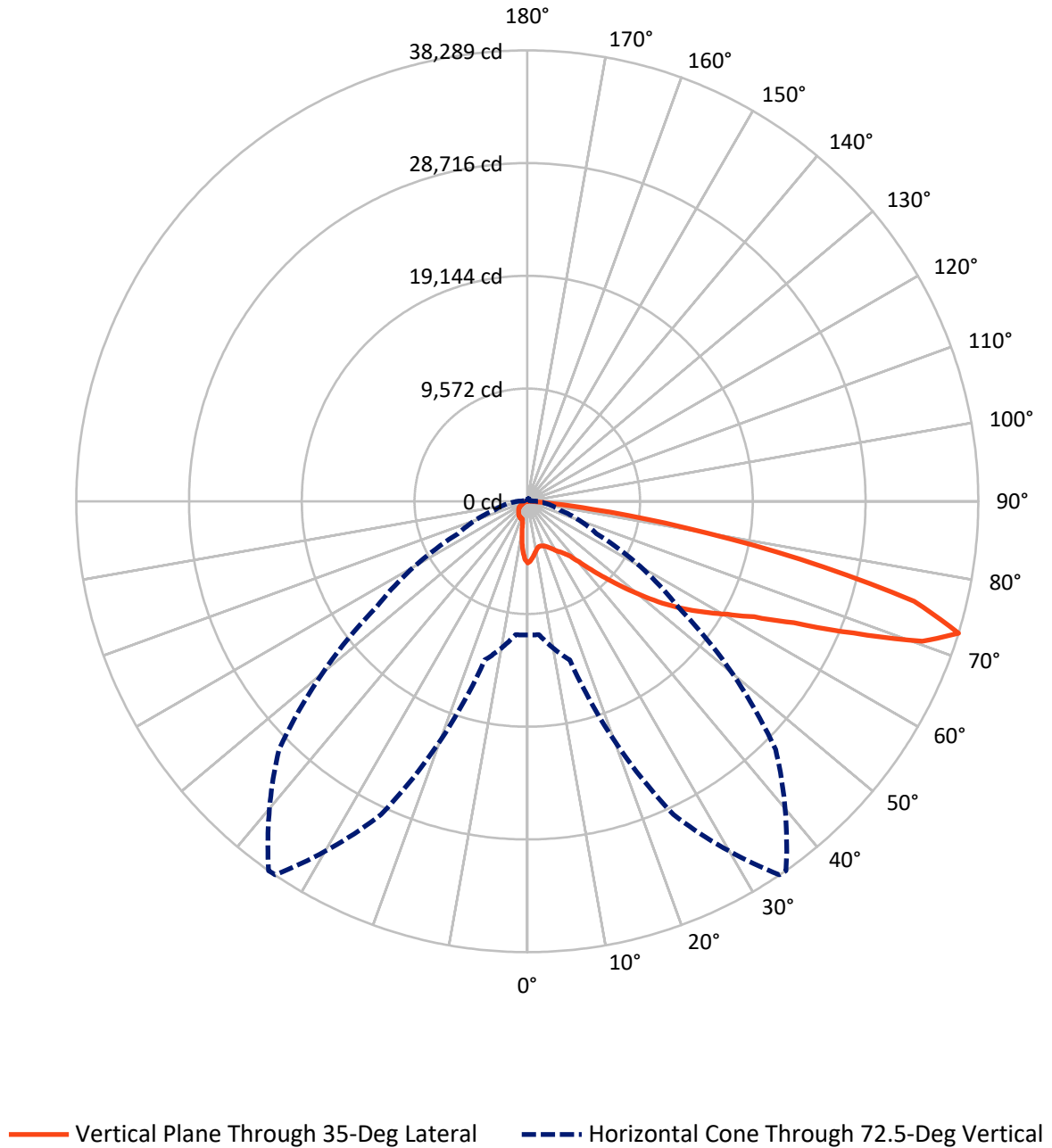
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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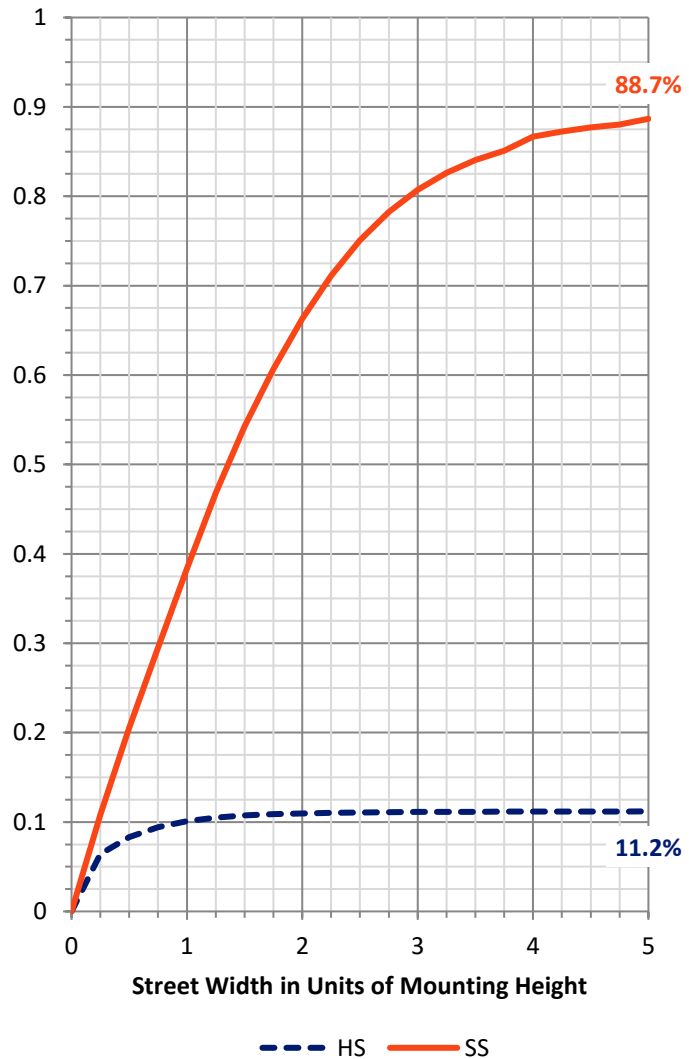
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4062.9 | 0.0 | 4062.9 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 32037.1 | 0.0 | 32037.1 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 36100.0 | 0.0 | 36100.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 429.9 | 1.2 |
| 10°-20° | 1005.8 | 2.8 |
| 20°-30° | 1633.9 | 4.5 |
| 30°-40° | 2726.1 | 7.6 |
| 40°-50° | 5157.9 | 14.3 |
| 50°-60° | 8195.9 | 22.7 |
| 60°-70° | 10138.8 | 28.1 |
| 70°-80° | 6302.4 | 17.5 |
| 80°-90° | 509.3 | 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° | 36100.0 | 100.0 |
| 0°-180° | 36100.0 | 100.0 |

Coefficient of Utilization



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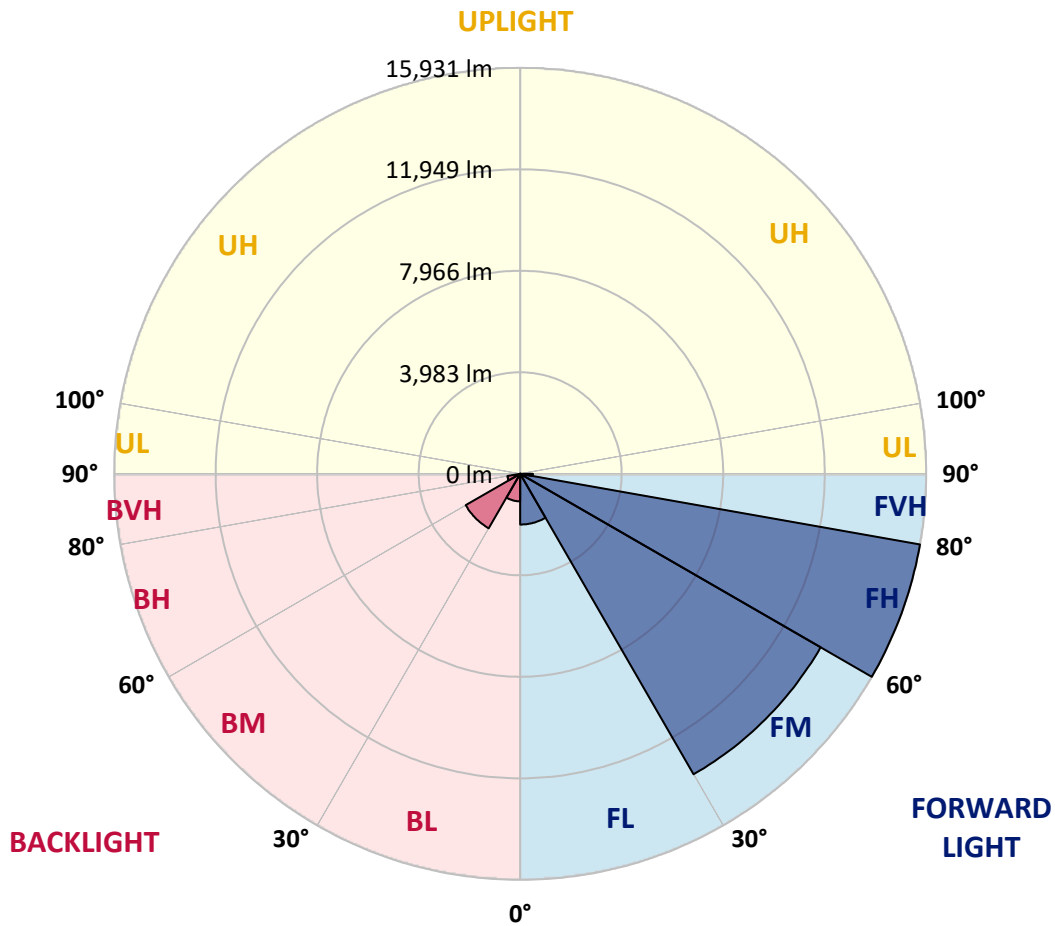
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1990.0 | 5.5 | | | |
| FM (30°-60°) | 13613.3 | 37.7 | | | |
| FH (60°-80°) | 15931.4 | 44.1 | | | G5 |
| FVH (80°-90°) | 502.4 | 1.4 | | | G4/750 |
| BL (0°-30°) | 1079.6 | 3.0 | B3/2500 | | |
| BM (30°-60°) | 2466.5 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 509.8 | 1.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 6.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5232.1 | 5232.1 | 5232.1 | 5232.1 | 5232.1 | 5232.1 | 5232.1 | 5232.1 | 5232.1 | 5232.1 |
| 2.5° | 4999.3 | 5041.6 | 5049.6 | 5062.8 | 5062.8 | 5078.7 | 5105.1 | 5142.2 | 5203.0 | 5234.7 |
| 5° | 4607.8 | 4639.6 | 4679.3 | 4711.0 | 4771.8 | 4779.8 | 4882.9 | 4983.5 | 5123.6 | 5229.5 |
| 7.5° | 4213.7 | 4250.8 | 4303.7 | 4380.4 | 4459.7 | 4483.5 | 4639.6 | 4808.9 | 5031.1 | 5229.5 |
| 10° | 3936.0 | 3938.6 | 3986.2 | 4062.9 | 4189.9 | 4219.0 | 4409.5 | 4650.2 | 4927.9 | 5197.7 |
| 12.5° | 3779.9 | 3798.4 | 3819.6 | 3877.8 | 3999.5 | 4018.0 | 4221.7 | 4504.7 | 4824.7 | 5179.2 |
| 15° | 3779.9 | 3793.1 | 3806.4 | 3835.5 | 3933.3 | 3949.2 | 4129.1 | 4412.1 | 4771.8 | 5187.1 |
| 17.5° | 3819.6 | 3840.8 | 3830.2 | 3864.6 | 3967.7 | 3978.3 | 4137.0 | 4385.7 | 4769.2 | 5237.4 |
| 20° | 3914.8 | 3930.7 | 3909.5 | 3930.7 | 4033.8 | 4055.0 | 4219.0 | 4435.9 | 4814.2 | 5324.7 |
| 22.5° | 4065.6 | 4073.5 | 4023.3 | 4039.1 | 4144.9 | 4171.4 | 4361.8 | 4578.7 | 4922.6 | 5464.9 |
| 25° | 4256.0 | 4271.9 | 4195.2 | 4213.7 | 4314.2 | 4346.0 | 4565.5 | 4793.0 | 5094.6 | 5658.0 |
| 27.5° | 4475.6 | 4483.5 | 4417.4 | 4414.7 | 4544.4 | 4589.3 | 4811.5 | 5057.5 | 5324.7 | 5901.3 |
| 30° | 4726.9 | 4750.7 | 4687.2 | 4676.6 | 4840.6 | 4877.7 | 5097.2 | 5382.9 | 5663.3 | 6266.4 |
| 32.5° | 4925.3 | 4943.8 | 4906.7 | 4933.2 | 5099.8 | 5128.9 | 5443.7 | 5843.1 | 6194.9 | 6784.8 |
| 35° | 5210.9 | 5221.5 | 5136.9 | 5184.5 | 5374.9 | 5449.0 | 5917.2 | 6488.5 | 6864.2 | 7435.5 |
| 37.5° | 6245.2 | 6245.2 | 5885.5 | 5650.0 | 5832.5 | 5898.7 | 6565.3 | 7300.6 | 7689.4 | 8308.4 |
| 40° | 7676.2 | 7652.4 | 7126.0 | 6644.6 | 6620.8 | 6750.4 | 7488.4 | 8324.3 | 8755.4 | 9355.9 |
| 42.5° | 9202.5 | 9165.4 | 8448.6 | 7972.5 | 7893.1 | 7938.1 | 8554.4 | 9586.0 | 10025.1 | 10633.5 |
| 45° | 10556.8 | 10546.2 | 9890.2 | 9250.1 | 9107.2 | 9250.1 | 9884.9 | 11062.0 | 11376.8 | 12016.9 |
| 47.5° | 11691.5 | 11691.5 | 11212.8 | 10794.8 | 10720.8 | 10805.4 | 11686.3 | 12699.3 | 12670.3 | 13490.2 |
| 50° | 12998.3 | 12987.7 | 12532.7 | 12352.8 | 12429.5 | 12548.6 | 13760.1 | 14424.0 | 14008.7 | 14937.1 |
| 52.5° | 13913.5 | 13977.0 | 13820.9 | 13791.8 | 14183.3 | 14389.6 | 15865.6 | 16111.6 | 15206.9 | 16310.0 |
| 55° | 14638.2 | 14712.3 | 14892.2 | 15095.9 | 15849.7 | 16119.5 | 17905.0 | 17711.9 | 16209.5 | 17500.3 |
| 57.5° | 15664.6 | 15558.8 | 15836.5 | 16238.6 | 17458.0 | 17783.3 | 19880.9 | 19222.3 | 17016.2 | 18465.8 |
| 60° | 16910.4 | 16926.3 | 16973.9 | 17481.8 | 19063.6 | 19481.5 | 21827.8 | 20650.7 | 17534.7 | 19058.3 |
| 62.5° | 18407.6 | 18431.4 | 18529.3 | 19309.6 | 21219.4 | 21613.5 | 23901.5 | 21819.8 | 17772.7 | 18891.6 |
| 65° | 18304.4 | 18404.9 | 19497.4 | 22166.3 | 24496.7 | 24885.5 | 26321.9 | 22639.8 | 17413.0 | 17368.0 |
| 67.5° | 16675.0 | 16839.0 | 18666.8 | 25578.6 | 29437.8 | 29871.6 | 29247.4 | 22801.2 | 15860.3 | 13506.1 |
| 70° | 14537.7 | 14595.9 | 16794.0 | 28646.9 | 35159.3 | 35598.4 | 31866.1 | 21026.3 | 12035.4 | 7533.4 |
| 72.5° | 11353.0 | 11366.2 | 13945.2 | 29358.5 | 38264.7 | 38288.5 | 29810.8 | 15609.0 | 6472.7 | 2893.8 |
| 75° | 8110.0 | 8030.7 | 9340.0 | 23809.0 | 33664.8 | 33934.6 | 22348.8 | 7321.8 | 2473.2 | 1367.5 |
| 77.5° | 4348.6 | 4435.9 | 5285.0 | 14119.8 | 23256.1 | 23716.4 | 12194.1 | 2110.8 | 1259.1 | 931.1 |
| 80° | 1343.7 | 1417.8 | 2166.4 | 6464.7 | 13172.8 | 13450.6 | 4520.6 | 939.0 | 878.2 | 663.9 |
| 82.5° | 423.2 | 439.1 | 1010.4 | 2716.6 | 5467.5 | 5594.5 | 1309.3 | 531.7 | 600.4 | 439.1 |
| 85° | 121.7 | 124.3 | 449.7 | 1013.1 | 1351.7 | 1378.1 | 367.7 | 206.3 | 343.9 | 272.5 |
| 87.5° | 13.2 | 42.3 | 169.3 | 169.3 | 119.0 | 116.4 | 39.7 | 45.0 | 97.9 | 34.4 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5232.1 | 0° | 5232.1 | 5232.1 | 5232.1 | 5232.1 | 5232.1 | 5232.1 | 5232.1 | 5232.1 | 5232.1 | 5232.1 |
| 5255.9 | 2.5° | 5242.7 | 5245.3 | 5210.9 | 5152.7 | 5089.3 | 5036.4 | 4970.2 | 4917.3 | 4880.3 | 4869.7 |
| 5303.5 | 5° | 5279.7 | 5261.2 | 5163.3 | 4986.1 | 4774.5 | 4592.0 | 4388.3 | 4226.9 | 4121.1 | 4076.2 |
| 5353.8 | 7.5° | 5335.3 | 5282.4 | 5068.1 | 4718.9 | 4314.2 | 3954.5 | 3589.5 | 3306.4 | 3126.6 | 3036.6 |
| 5401.4 | 10° | 5382.9 | 5277.1 | 4909.4 | 4332.8 | 3713.8 | 3168.9 | 2676.9 | 2335.7 | 2145.2 | 2055.3 |
| 5456.9 | 12.5° | 5427.8 | 5274.4 | 4703.1 | 3875.1 | 3036.6 | 2370.1 | 1912.4 | 1743.2 | 1690.2 | 1671.7 |
| 5546.9 | 15° | 5512.5 | 5282.4 | 4443.8 | 3351.4 | 2362.1 | 1790.8 | 1624.1 | 1621.5 | 1632.1 | 1626.8 |
| 5684.4 | 17.5° | 5628.9 | 5290.3 | 4150.2 | 2795.9 | 1822.5 | 1579.2 | 1571.2 | 1595.0 | 1610.9 | 1603.0 |
| 5856.4 | 20° | 5779.6 | 5322.0 | 3838.1 | 2245.7 | 1565.9 | 1526.2 | 1544.8 | 1565.9 | 1579.2 | 1565.9 |
| 6086.5 | 22.5° | 5991.3 | 5377.6 | 3496.9 | 1804.0 | 1483.9 | 1494.5 | 1510.4 | 1534.2 | 1547.4 | 1528.9 |
| 6380.1 | 25° | 6250.5 | 5464.9 | 3161.0 | 1568.6 | 1444.3 | 1457.5 | 1481.3 | 1507.7 | 1523.6 | 1505.1 |
| 6750.4 | 27.5° | 6586.4 | 5605.1 | 2851.5 | 1515.7 | 1404.6 | 1412.5 | 1446.9 | 1486.6 | 1507.7 | 1483.9 |
| 7276.8 | 30° | 7073.1 | 5835.2 | 2584.3 | 1539.5 | 1380.8 | 1362.3 | 1409.9 | 1465.4 | 1489.2 | 1468.1 |
| 7993.6 | 32.5° | 7718.5 | 6160.5 | 2420.3 | 1576.5 | 1370.2 | 1304.1 | 1349.0 | 1420.4 | 1460.1 | 1446.9 |
| 8930.0 | 35° | 8565.0 | 6655.2 | 2356.8 | 1618.8 | 1362.3 | 1243.2 | 1275.0 | 1351.7 | 1420.4 | 1433.7 |
| 10109.8 | 37.5° | 9591.3 | 7342.9 | 2375.3 | 1637.3 | 1338.4 | 1193.0 | 1208.8 | 1275.0 | 1364.9 | 1407.2 |
| 11437.6 | 40° | 10757.8 | 8144.4 | 2481.1 | 1618.8 | 1312.0 | 1150.6 | 1153.3 | 1203.5 | 1282.9 | 1346.4 |
| 12866.0 | 42.5° | 11961.4 | 9080.8 | 2676.9 | 1550.1 | 1288.2 | 1113.6 | 1105.7 | 1140.1 | 1193.0 | 1237.9 |
| 14291.7 | 45° | 13106.7 | 10043.6 | 2870.0 | 1454.8 | 1259.1 | 1076.6 | 1058.1 | 1071.3 | 1081.9 | 1100.4 |
| 15680.4 | 47.5° | 14106.6 | 10720.8 | 2814.4 | 1367.5 | 1219.4 | 1034.3 | 1002.5 | 997.2 | 965.5 | 962.8 |
| 16921.0 | 50° | 14797.0 | 10868.9 | 2499.7 | 1280.3 | 1161.2 | 986.6 | 936.4 | 904.6 | 849.1 | 822.6 |
| 17849.5 | 52.5° | 15016.5 | 10284.3 | 2042.1 | 1193.0 | 1066.0 | 923.2 | 851.7 | 801.5 | 732.7 | 708.9 |
| 18383.8 | 55° | 14725.5 | 9139.0 | 1632.1 | 1087.2 | 933.7 | 838.5 | 759.2 | 693.0 | 637.5 | 608.4 |
| 18442.0 | 57.5° | 14014.0 | 7681.5 | 1290.8 | 962.8 | 793.5 | 743.3 | 663.9 | 597.8 | 550.2 | 521.1 |
| 17796.5 | 60° | 12834.3 | 6099.7 | 1021.0 | 814.7 | 677.2 | 640.1 | 558.1 | 515.8 | 473.5 | 439.1 |
| 16130.1 | 62.5° | 11043.5 | 4353.9 | 801.5 | 645.4 | 566.1 | 523.7 | 476.1 | 444.4 | 394.1 | 346.5 |
| 13133.2 | 65° | 8617.9 | 2663.7 | 619.0 | 473.5 | 455.0 | 433.8 | 404.7 | 375.6 | 314.8 | 267.2 |
| 8567.6 | 67.5° | 5435.8 | 1261.7 | 441.7 | 357.1 | 359.7 | 349.2 | 335.9 | 312.1 | 267.2 | 224.8 |
| 3838.1 | 70° | 2393.9 | 611.0 | 291.0 | 272.5 | 267.2 | 267.2 | 277.7 | 269.8 | 227.5 | 187.8 |
| 1333.2 | 72.5° | 814.7 | 328.0 | 216.9 | 206.3 | 193.1 | 190.5 | 232.8 | 224.8 | 182.5 | 145.5 |
| 663.9 | 75° | 425.9 | 219.5 | 158.7 | 148.1 | 116.4 | 140.2 | 185.2 | 174.6 | 129.6 | 95.2 |
| 439.1 | 77.5° | 277.7 | 156.1 | 108.5 | 95.2 | 66.1 | 92.6 | 137.5 | 121.7 | 76.7 | 47.6 |
| 288.3 | 80° | 174.6 | 103.2 | 63.5 | 45.0 | 31.7 | 50.3 | 74.1 | 52.9 | 29.1 | 10.6 |
| 169.3 | 82.5° | 92.6 | 52.9 | 23.8 | 15.9 | 13.2 | 15.9 | 18.5 | 13.2 | 5.3 | 0.0 |
| 87.3 | 85° | 37.0 | 18.5 | 7.9 | 5.3 | 2.6 | 0.0 | 5.3 | 2.6 | 0.0 | 0.0 |
| 15.9 | 87.5° | 13.2 | 2.6 | 0.0 | 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 |

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| |
|-------------|
| <u>180°</u> |
| 5232.1 |
| 4888.2 |
| 4092.0 |
| 3049.9 |
| 2057.9 |
| 1666.4 |
| 1624.1 |
| 1600.3 |
| 1563.3 |
| 1526.2 |
| 1502.4 |
| 1483.9 |
| 1465.4 |
| 1446.9 |
| 1433.7 |
| 1417.8 |
| 1367.5 |
| 1256.4 |
| 1111.0 |
| 960.2 |
| 825.3 |
| 706.3 |
| 608.4 |
| 515.8 |
| 431.2 |
| 338.6 |
| 259.2 |
| 219.5 |
| 179.9 |
| 137.5 |
| 87.3 |
| 42.3 |
| 7.9 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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