

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: P943379

Luminaire Tested: **GLAN-SB7D-827-U-T4FT**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P943379  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB7D-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 62198 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 512.8  
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

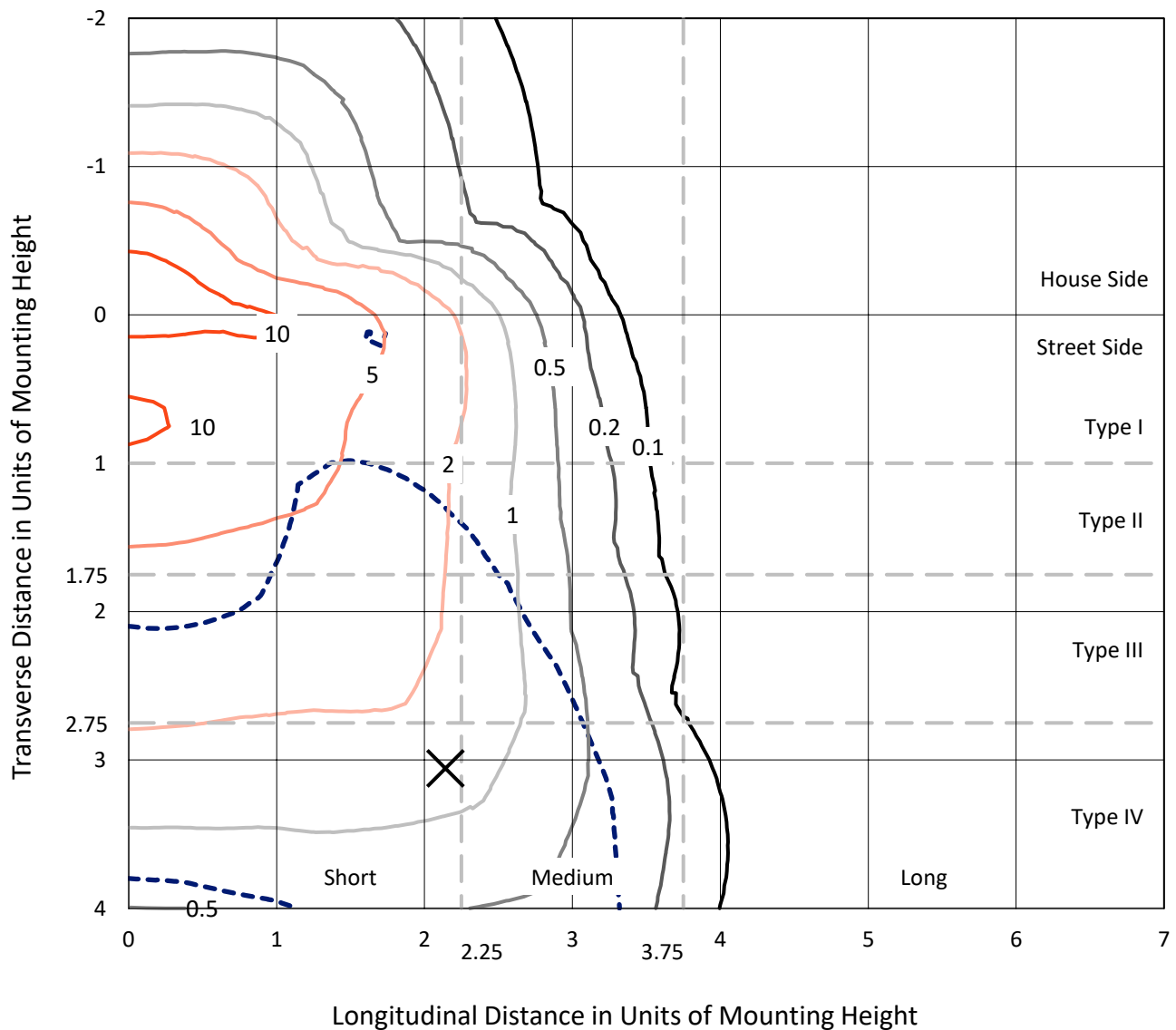


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## Iso-Footcandle Lines of Horizontal Illumination

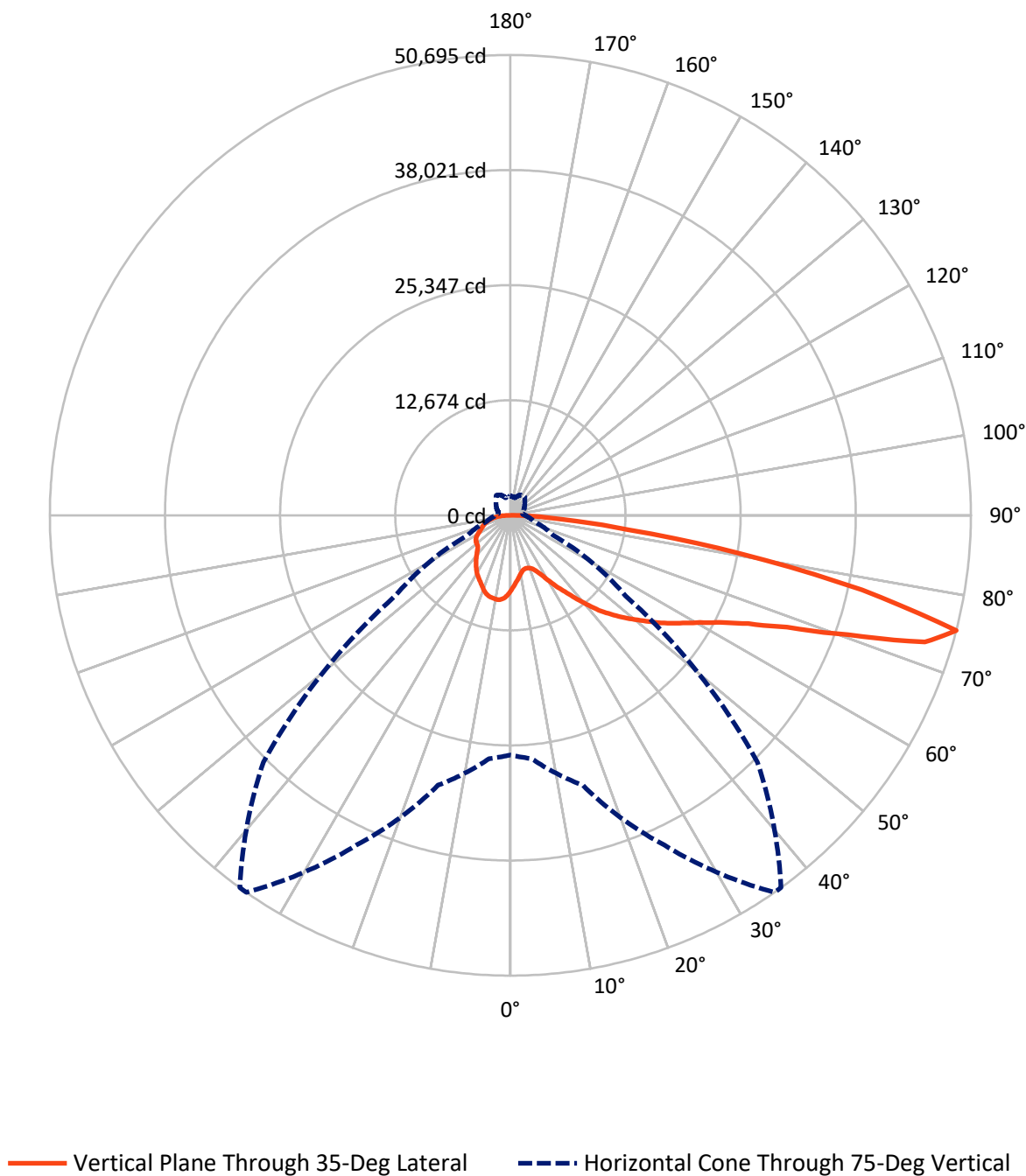
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc  
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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CATALOG NUMBER: GLAN-SB7D-827-U-T4FT

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14801.6  | 0.0    | 14801.6 |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 47396.4  | 0.0    | 47396.4 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 62198.0  | 0.0    | 62198.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 784.7   | 1.3       |
| 10°-20°   | 2263.5  | 3.6       |
| 20°-30°   | 3801.0  | 6.1       |
| 30°-40°   | 5907.3  | 9.5       |
| 40°-50°   | 8768.1  | 14.1      |
| 50°-60°   | 12104.9 | 19.5      |
| 60°-70°   | 14686.0 | 23.6      |
| 70°-80°   | 12136.8 | 19.5      |
| 80°-90°   | 1745.6  | 2.8       |
| 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°    | 62198.0 | 100.0     |
| 0°-180°   | 62198.0 | 100.0     |

**Coefficient of Utilization**



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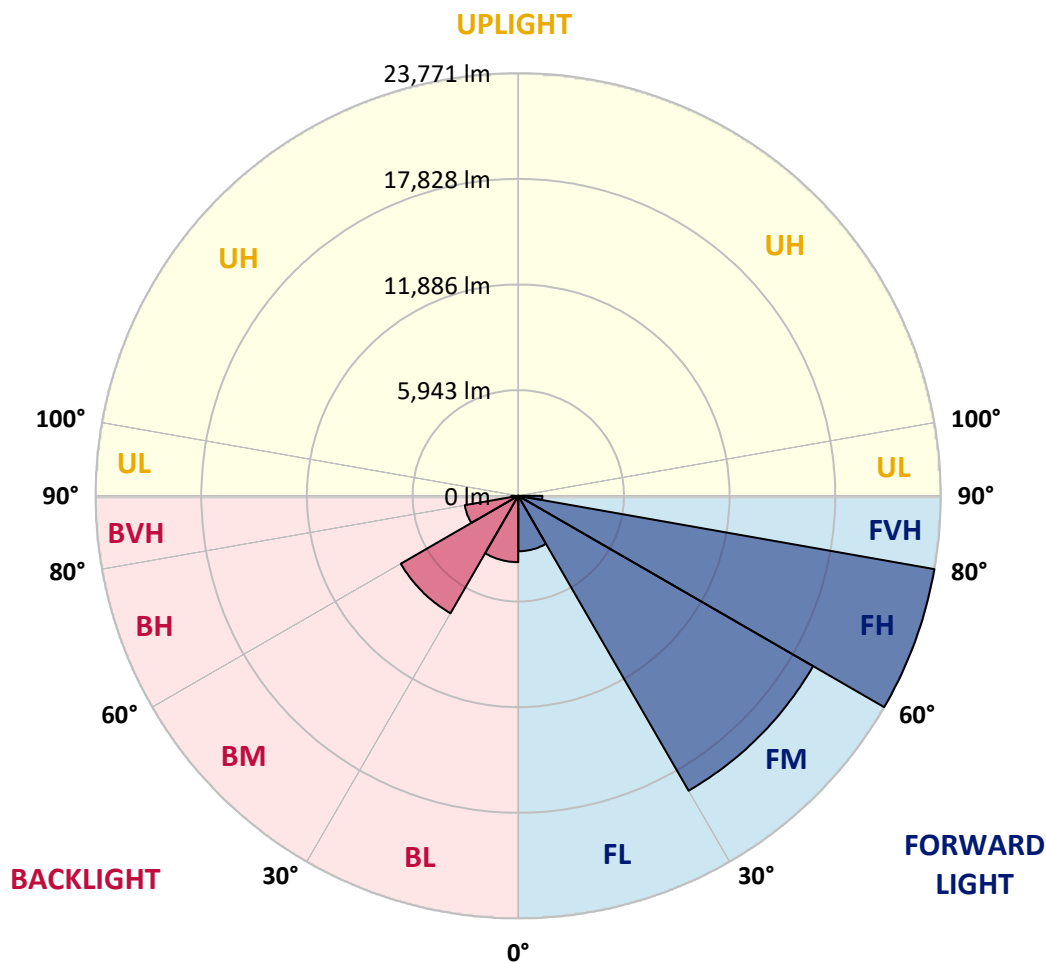
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3119.1  | 5.0       |                         |      |         |
| FM   | (30°-60°)   | 19153.6 | 30.8      |                         |      |         |
| FH   | (60°-80°)   | 23771.1 | 38.2      |                         |      | G5      |
| FVH  | (80°-90°)   | 1352.6  | 2.2       |                         |      | G5      |
| BL   | (0°-30°)    | 3730.2  | 6.0       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 7626.7  | 12.3      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3051.6  | 4.9       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 393.1   | 0.6       |                         |      | 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 Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 36°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8288.3  | 8288.3  | 8288.3  | 8288.3  | 8288.3  | 8288.3  | 8288.3  | 8288.3  | 8288.3  | 8288.3  |
| 2.5°  | 7642.7  | 7689.8  | 7710.0  | 7699.9  | 7750.3  | 7743.6  | 7814.2  | 7901.6  | 8022.7  | 8140.4  |
| 5°    | 7054.3  | 7104.7  | 7148.5  | 7188.8  | 7286.3  | 7316.6  | 7427.5  | 7595.7  | 7817.6  | 8042.8  |
| 7.5°  | 6506.2  | 6549.9  | 6617.2  | 6691.2  | 6855.9  | 6886.2  | 7071.1  | 7333.4  | 7642.7  | 7972.2  |
| 10°   | 6059.0  | 6102.7  | 6173.4  | 6257.4  | 6462.5  | 6499.5  | 6734.9  | 7084.6  | 7488.1  | 7905.0  |
| 12.5° | 5867.4  | 5880.8  | 5921.2  | 6005.2  | 6183.4  | 6207.0  | 6465.9  | 6866.0  | 7336.7  | 7854.6  |
| 15°   | 5857.3  | 5884.2  | 5887.6  | 5931.3  | 6079.2  | 6089.3  | 6328.0  | 6724.8  | 7242.6  | 7844.5  |
| 17.5° | 5958.2  | 5978.3  | 5948.1  | 5975.0  | 6099.4  | 6116.2  | 6304.5  | 6657.5  | 7212.3  | 7888.2  |
| 20°   | 6227.2  | 6244.0  | 6153.2  | 6116.2  | 6207.0  | 6220.4  | 6405.4  | 6701.3  | 7242.6  | 7979.0  |
| 22.5° | 6798.8  | 6808.9  | 6586.9  | 6435.6  | 6442.3  | 6449.1  | 6610.5  | 6879.5  | 7360.3  | 8143.7  |
| 25°   | 7689.8  | 7683.1  | 7330.0  | 7037.5  | 6869.4  | 6832.4  | 6940.0  | 7168.6  | 7558.7  | 8362.3  |
| 27.5° | 8732.1  | 8681.7  | 8328.7  | 7891.5  | 7525.0  | 7471.2  | 7447.7  | 7545.2  | 7841.1  | 8651.4  |
| 30°   | 9909.0  | 9861.9  | 9482.0  | 8910.3  | 8402.6  | 8315.2  | 8093.3  | 8042.8  | 8261.4  | 9044.8  |
| 32.5° | 11200.1 | 11169.9 | 10716.0 | 10023.3 | 9344.1  | 9243.2  | 8870.0  | 8735.5  | 8907.0  | 9640.0  |
| 35°   | 12282.8 | 12255.9 | 11879.3 | 11166.5 | 10336.0 | 10211.6 | 9831.6  | 9680.3  | 9767.8  | 10403.3 |
| 37.5° | 13261.3 | 13247.8 | 12925.0 | 12363.5 | 11506.1 | 11354.8 | 10927.8 | 10877.3 | 10860.5 | 11408.6 |
| 40°   | 14169.1 | 14135.5 | 13799.3 | 13503.4 | 12867.9 | 12730.0 | 12353.4 | 12309.7 | 12182.0 | 12646.0 |
| 42.5° | 15174.5 | 15087.1 | 14599.5 | 14461.7 | 14290.2 | 14175.9 | 13950.6 | 13957.3 | 13674.9 | 14041.4 |
| 45°   | 15994.9 | 15944.5 | 15443.5 | 15362.8 | 15547.7 | 15500.6 | 15695.7 | 15746.1 | 15198.0 | 15504.0 |
| 47.5° | 16875.9 | 16828.8 | 16405.1 | 16348.0 | 16849.0 | 16862.4 | 17551.7 | 17568.5 | 16684.2 | 17023.8 |
| 50°   | 17961.9 | 17894.7 | 17474.4 | 17545.0 | 18106.5 | 18156.9 | 19417.8 | 19303.5 | 18052.7 | 18567.1 |
| 52.5° | 18678.1 | 18718.5 | 18627.7 | 18742.0 | 19508.6 | 19555.7 | 21253.7 | 20961.2 | 19407.7 | 20090.3 |
| 55°   | 19206.0 | 19286.7 | 19569.1 | 19831.4 | 20988.1 | 21035.1 | 22985.3 | 22538.1 | 20530.8 | 21502.5 |
| 57.5° | 19885.2 | 19770.9 | 20298.8 | 20809.9 | 22393.6 | 22518.0 | 24669.9 | 24057.9 | 21526.1 | 22719.7 |
| 60°   | 20860.3 | 20779.6 | 21189.8 | 21946.4 | 23967.2 | 24165.5 | 26452.0 | 25426.4 | 22255.7 | 23684.7 |
| 62.5° | 22837.4 | 22635.6 | 22699.5 | 23368.6 | 25951.0 | 26213.2 | 28462.7 | 26620.1 | 22618.8 | 24061.3 |
| 65°   | 25792.9 | 25446.6 | 25123.8 | 25587.8 | 28745.1 | 29004.0 | 30732.3 | 27558.2 | 22484.3 | 23331.7 |
| 67.5° | 29515.1 | 29172.1 | 28775.4 | 29212.5 | 32860.7 | 33065.8 | 33533.2 | 28086.1 | 21425.2 | 20520.7 |
| 70°   | 32585.0 | 32457.2 | 32931.3 | 34730.2 | 39434.2 | 39440.9 | 37124.2 | 27649.0 | 18523.4 | 14549.1 |
| 72.5° | 32178.1 | 32100.8 | 34599.0 | 40160.4 | 47719.1 | 47540.9 | 40523.6 | 24340.4 | 12477.8 | 6563.4  |
| 75°   | 26398.2 | 26899.2 | 30769.3 | 40062.9 | 50694.8 | 50671.3 | 38442.3 | 15473.7 | 5161.3  | 2720.2  |
| 77.5° | 14155.7 | 14949.2 | 19976.0 | 29579.0 | 39575.4 | 40170.5 | 27026.9 | 5413.5  | 2215.8  | 1741.7  |
| 80°   | 4616.6  | 5309.2  | 7962.2  | 15060.2 | 25715.6 | 25604.6 | 11583.5 | 2125.0  | 1516.4  | 1234.0  |
| 82.5° | 1960.3  | 2041.0  | 3557.4  | 7111.5  | 13197.4 | 12992.3 | 3688.5  | 1220.5  | 1065.9  | 844.0   |
| 85°   | 766.6   | 857.4   | 1570.2  | 3288.4  | 5716.1  | 5591.7  | 1331.5  | 605.2   | 682.6   | 551.4   |
| 87.5° | 252.2   | 306.0   | 561.5   | 1126.4  | 1778.7  | 1714.8  | 326.2   | 208.5   | 295.9   | 252.2   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 8288.3  | 0°    | 8288.3  | 8288.3  | 8288.3 | 8288.3 | 8288.3 | 8288.3 | 8288.3 | 8288.3 | 8288.3 | 8288.3 |
| 8311.8  | 2.5°  | 8358.9  | 8412.7  | 8476.6 | 8570.7 | 8651.4 | 8718.7 | 8789.3 | 8833.0 | 8849.8 | 8900.3 |
| 8325.3  | 5°    | 8419.4  | 8537.1  | 8695.2 | 8849.8 | 9001.1 | 9091.9 | 9172.6 | 9213.0 | 9249.9 | 9276.8 |
| 8362.3  | 7.5°  | 8520.3  | 8671.6  | 8920.4 | 9122.2 | 9249.9 | 9323.9 | 9377.7 | 9364.3 | 9377.7 | 9384.4 |
| 8402.6  | 10°   | 8607.7  | 8819.6  | 9115.5 | 9307.1 | 9404.6 | 9408.0 | 9394.5 | 9347.5 | 9323.9 | 9327.3 |
| 8463.1  | 12.5° | 8712.0  | 8947.3  | 9266.8 | 9428.2 | 9455.1 | 9381.1 | 9323.9 | 9243.2 | 9213.0 | 9199.5 |
| 8553.9  | 15°   | 8853.2  | 9122.2  | 9431.5 | 9492.0 | 9424.8 | 9330.6 | 9233.1 | 9102.0 | 9034.8 | 8981.0 |
| 8708.6  | 17.5° | 9024.7  | 9320.6  | 9559.3 | 9515.6 | 9371.0 | 9216.3 | 9058.3 | 8859.9 | 8722.1 | 8664.9 |
| 8920.4  | 20°   | 9263.4  | 9529.0  | 9656.8 | 9465.1 | 9246.6 | 9011.2 | 8742.2 | 8500.1 | 8372.4 | 8315.2 |
| 9189.4  | 22.5° | 9552.6  | 9808.1  | 9750.9 | 9377.7 | 9068.4 | 8691.8 | 8355.6 | 8177.3 | 8113.5 | 8073.1 |
| 9535.8  | 25°   | 9898.9  | 10117.4 | 9818.2 | 9249.9 | 8775.9 | 8268.1 | 8009.2 | 7952.1 | 7921.8 | 7891.5 |
| 9959.4  | 27.5° | 10349.5 | 10467.1 | 9868.6 | 9061.7 | 8318.6 | 7817.6 | 7723.4 | 7733.5 | 7723.4 | 7673.0 |
| 10547.8 | 30°   | 10944.6 | 10921.1 | 9915.7 | 8755.7 | 7794.0 | 7410.7 | 7417.4 | 7461.2 | 7467.9 | 7434.3 |
| 11368.3 | 32.5° | 11728.0 | 11489.3 | 9939.2 | 8358.9 | 7293.0 | 7054.3 | 7061.0 | 7108.1 | 7141.7 | 7084.6 |
| 12440.9 | 35°   | 12676.2 | 12151.7 | 9902.3 | 7861.3 | 6906.4 | 6714.7 | 6664.3 | 6677.7 | 6687.8 | 6634.0 |
| 13742.1 | 37.5° | 13782.5 | 12894.8 | 9737.5 | 7309.8 | 6586.9 | 6381.8 | 6274.2 | 6183.4 | 6129.6 | 6079.2 |
| 15214.8 | 40°   | 14996.3 | 13705.1 | 9434.9 | 6771.9 | 6230.5 | 6028.8 | 5867.4 | 5695.9 | 5514.3 | 5447.1 |
| 16775.0 | 42.5° | 16267.3 | 14539.0 | 9068.4 | 6257.4 | 5820.3 | 5655.5 | 5484.1 | 5235.2 | 4962.9 | 4825.0 |
| 18395.7 | 45°   | 17585.3 | 15393.0 | 8708.6 | 5749.7 | 5400.0 | 5329.4 | 5131.0 | 4831.8 | 4535.9 | 4361.0 |
| 20019.7 | 47.5° | 18876.5 | 16200.0 | 8180.7 | 5238.6 | 5006.6 | 5083.9 | 4929.3 | 4653.6 | 4324.0 | 4048.3 |
| 21630.3 | 50°   | 20110.5 | 16956.6 | 7316.6 | 4720.8 | 4687.2 | 5010.0 | 4862.0 | 4465.3 | 4088.7 | 3735.6 |
| 23210.6 | 52.5° | 21334.4 | 17568.5 | 6210.3 | 4250.1 | 4515.7 | 4989.8 | 4774.6 | 4337.5 | 3876.8 | 3507.0 |
| 24696.8 | 55°   | 22373.4 | 17884.6 | 5144.5 | 3846.6 | 4266.9 | 4818.3 | 4670.4 | 4186.2 | 3577.6 | 3184.2 |
| 25715.6 | 57.5° | 22965.2 | 17629.0 | 4256.8 | 3449.8 | 3923.9 | 4535.9 | 4492.2 | 3863.4 | 3221.2 | 2918.6 |
| 25914.0 | 60°   | 22709.6 | 16593.4 | 3530.5 | 3103.5 | 3597.8 | 4229.9 | 4182.8 | 3544.0 | 2948.8 | 2663.0 |
| 24851.5 | 62.5° | 21300.8 | 14619.7 | 2955.5 | 2800.9 | 3301.9 | 3917.2 | 3873.5 | 3298.5 | 2740.4 | 2464.6 |
| 22030.4 | 65°   | 18462.9 | 11892.8 | 2508.3 | 2548.7 | 3002.6 | 3540.6 | 3604.5 | 3093.4 | 2575.6 | 2306.6 |
| 17044.0 | 67.5° | 14081.7 | 8614.5  | 2158.7 | 2330.1 | 2710.1 | 3170.7 | 3355.7 | 2945.5 | 2437.7 | 2182.2 |
| 9861.9  | 70°   | 8026.0  | 4892.3  | 1862.8 | 2118.3 | 2451.2 | 2827.8 | 3164.0 | 2827.8 | 2289.8 | 2078.0 |
| 3695.3  | 72.5° | 3043.0  | 2246.1  | 1610.6 | 1906.5 | 2202.4 | 2538.6 | 2952.2 | 2642.8 | 2118.3 | 1960.3 |
| 1909.8  | 75°   | 1624.0  | 1368.5  | 1355.0 | 1657.7 | 1916.6 | 2256.2 | 2686.6 | 2461.3 | 1990.5 | 2071.2 |
| 1321.4  | 77.5° | 1106.2  | 968.4   | 1133.1 | 1418.9 | 1603.9 | 1943.5 | 2404.1 | 2185.6 | 1724.9 | 1718.2 |
| 914.6   | 80°   | 766.6   | 685.9   | 921.3  | 1143.2 | 1240.7 | 1634.1 | 2098.1 | 1876.2 | 1405.5 | 1311.3 |
| 564.9   | 82.5° | 460.6   | 447.2   | 689.3  | 854.0  | 877.6  | 1260.9 | 1738.4 | 1573.6 | 1149.9 | 1002.0 |
| 336.2   | 85°   | 252.2   | 265.6   | 440.5  | 501.0  | 511.1  | 880.9  | 1361.8 | 1217.2 | 884.3  | 743.1  |
| 121.0   | 87.5° | 70.6    | 90.8    | 161.4  | 198.4  | 245.5  | 457.3  | 810.3  | 722.9  | 443.8  | 309.3  |
| 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°   |
|--------|
| 8288.3 |
| 8896.9 |
| 9283.6 |
| 9394.5 |
| 9334.0 |
| 9192.8 |
| 8997.8 |
| 8668.3 |
| 8308.5 |
| 8079.8 |
| 7891.5 |
| 7683.1 |
| 7451.1 |
| 7111.5 |
| 6671.0 |
| 6112.8 |
| 5477.3 |
| 4841.8 |
| 4347.6 |
| 4018.1 |
| 3705.4 |
| 3466.6 |
| 3150.6 |
| 2878.2 |
| 2622.7 |
| 2420.9 |
| 2262.9 |
| 2141.8 |
| 2051.1 |
| 1933.4 |
| 2138.5 |
| 1583.7 |
| 1254.2 |
| 1008.7 |
| 749.8  |
| 309.3  |
| 0.0    |