

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: P943412

Luminaire Tested: **GLAN-SB7D-850-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943412  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB7D-850-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 68618 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B5 - 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

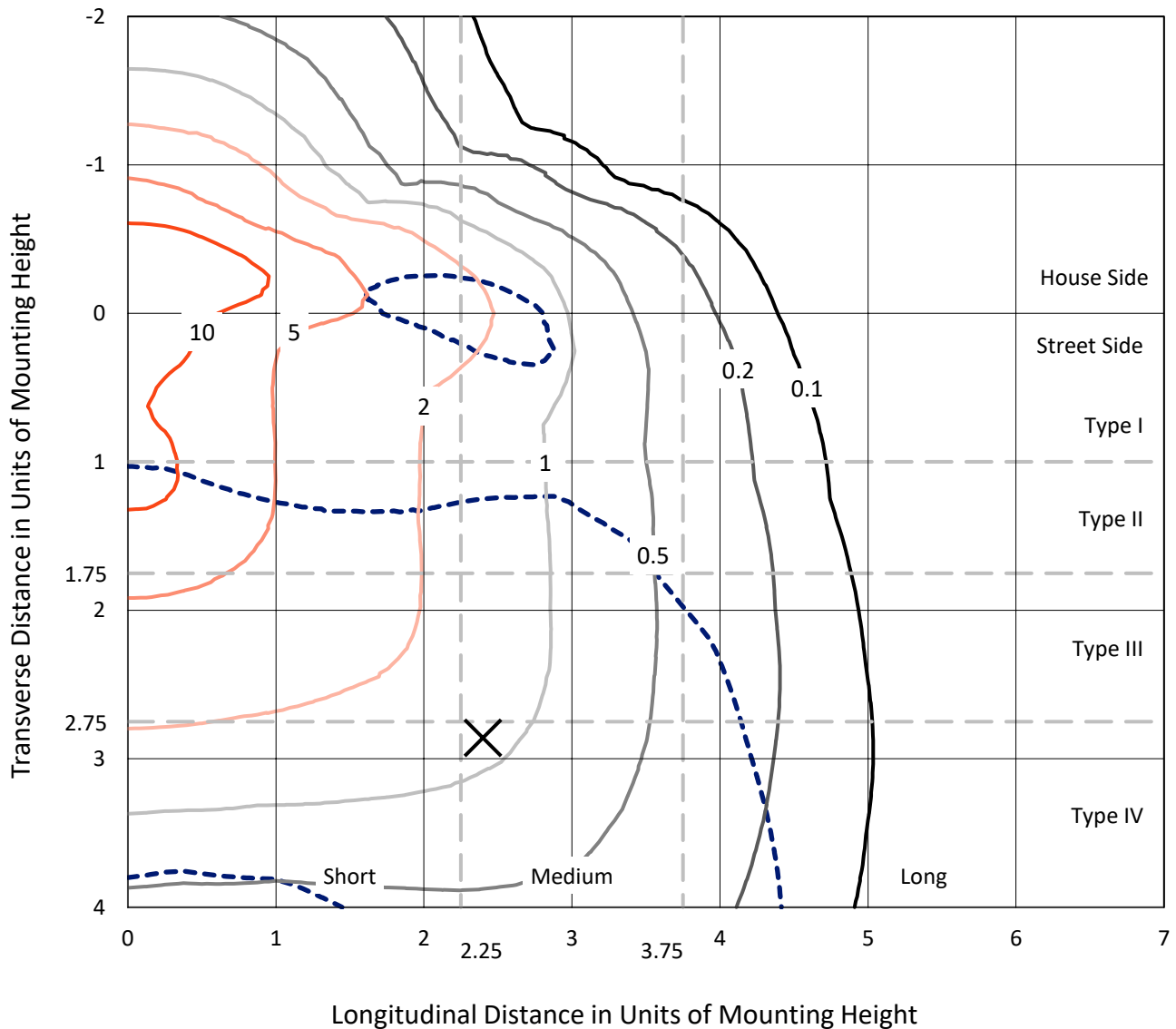


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## Iso-Footcandle Lines of Horizontal Illumination

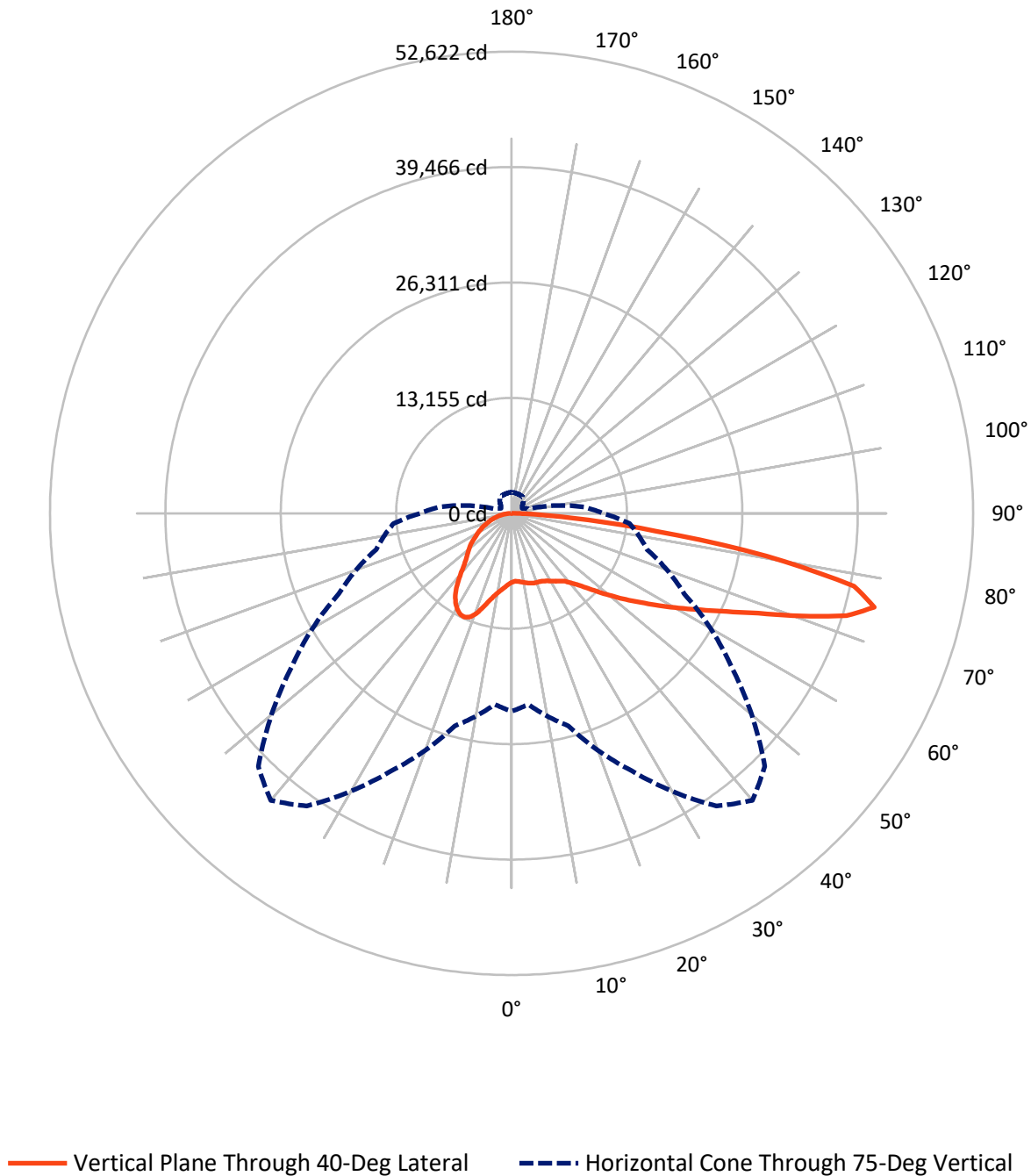
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc  
Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 21260.2  | 0.0    | 21260.2 |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 47357.9  | 0.0    | 47357.9 |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 68618.0  | 0.0    | 68618.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 783.2   | 1.1       |
| 10°-20°   | 2629.7  | 3.8       |
| 20°-30°   | 4801.6  | 7.0       |
| 30°-40°   | 6810.0  | 9.9       |
| 40°-50°   | 9195.5  | 13.4      |
| 50°-60°   | 12370.4 | 18.0      |
| 60°-70°   | 15700.9 | 22.9      |
| 70°-80°   | 14249.6 | 20.8      |
| 80°-90°   | 2077.1  | 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°    | 68618.0 | 100.0     |
| 0°-180°   | 68618.0 | 100.0     |

**Coefficient of Utilization**



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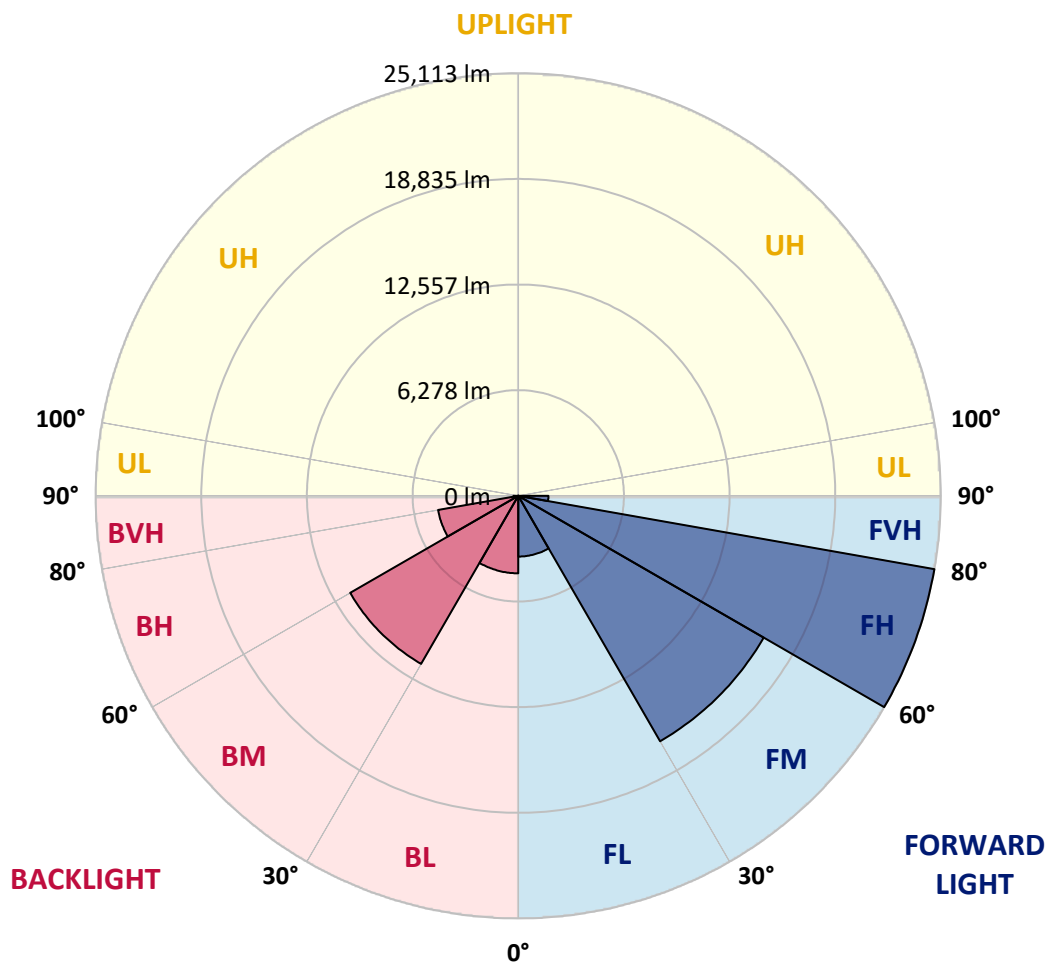
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3609.4  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 16844.2 | 24.5      |                         |      |         |
| FH   | (60°-80°)   | 25113.1 | 36.6      |                         |      | G5      |
| FVH  | (80°-90°)   | 1791.2  | 2.6       |                         |      | G5      |
| BL   | (0°-30°)    | 4605.1  | 6.7       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 11531.7 | 16.8      | B5                      |      |         |
| BH   | (60°-80°)   | 4837.3  | 7.0       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 286.0   | 0.4       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 40°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7846.6  | 7846.6  | 7846.6  | 7846.6  | 7846.6  | 7846.6  | 7846.6  | 7846.6  | 7846.6  | 7846.6  |
| 2.5°  | 7726.5  | 7770.1  | 7759.2  | 7744.7  | 7744.7  | 7748.3  | 7744.7  | 7770.1  | 7795.6  | 7821.1  |
| 5°    | 7806.5  | 7850.2  | 7828.4  | 7810.2  | 7795.6  | 7792.0  | 7781.1  | 7777.4  | 7792.0  | 7824.7  |
| 7.5°  | 7963.0  | 8006.7  | 7973.9  | 7941.2  | 7912.1  | 7897.5  | 7883.0  | 7861.1  | 7850.2  | 7868.4  |
| 10°   | 8137.7  | 8181.4  | 8141.4  | 8083.1  | 8035.8  | 8017.6  | 8003.1  | 7981.2  | 7966.7  | 7977.6  |
| 12.5° | 8312.4  | 8356.1  | 8301.5  | 8221.4  | 8159.5  | 8148.6  | 8130.4  | 8123.2  | 8119.5  | 8115.9  |
| 15°   | 8476.2  | 8512.6  | 8443.4  | 8348.8  | 8283.3  | 8265.1  | 8246.9  | 8257.8  | 8276.0  | 8297.8  |
| 17.5° | 8603.6  | 8640.0  | 8538.0  | 8414.3  | 8352.4  | 8345.2  | 8334.2  | 8370.6  | 8421.6  | 8476.2  |
| 20°   | 8720.0  | 8756.4  | 8625.4  | 8458.0  | 8385.2  | 8385.2  | 8388.8  | 8465.3  | 8538.0  | 8618.1  |
| 22.5° | 8883.8  | 8912.9  | 8752.8  | 8523.5  | 8417.9  | 8425.2  | 8454.3  | 8530.8  | 8621.8  | 8730.9  |
| 25°   | 9127.6  | 9149.5  | 8952.9  | 8647.2  | 8527.1  | 8549.0  | 8574.4  | 8610.8  | 8698.2  | 8825.6  |
| 27.5° | 9520.7  | 9538.9  | 9280.5  | 8865.6  | 8683.6  | 8720.0  | 8756.4  | 8730.9  | 8771.0  | 8880.2  |
| 30°   | 10073.9 | 10084.8 | 9757.2  | 9207.7  | 8949.3  | 8967.5  | 8974.8  | 8869.2  | 8792.8  | 8880.2  |
| 32.5° | 10729.0 | 10725.3 | 10335.9 | 9622.6  | 9251.4  | 9233.2  | 9171.3  | 8963.9  | 8785.5  | 8862.0  |
| 35°   | 11744.4 | 11704.3 | 11202.1 | 10204.9 | 9593.5  | 9480.7  | 9335.1  | 9069.4  | 8821.9  | 8843.8  |
| 37.5° | 13425.8 | 13302.0 | 12606.9 | 11158.4 | 10103.0 | 9815.5  | 9600.8  | 9240.5  | 8902.0  | 8836.5  |
| 40°   | 15321.9 | 15165.4 | 14401.1 | 12465.0 | 10867.3 | 10405.1 | 10059.3 | 9484.3  | 9033.0  | 8869.2  |
| 42.5° | 17571.1 | 17349.0 | 16526.5 | 14004.4 | 11835.3 | 11165.7 | 10645.3 | 9793.6  | 9225.9  | 8974.8  |
| 45°   | 20333.4 | 20038.6 | 18874.0 | 15740.4 | 13054.5 | 12162.9 | 11467.8 | 10263.1 | 9520.7  | 9178.6  |
| 47.5° | 23124.8 | 23197.6 | 21541.6 | 17727.5 | 14517.6 | 13393.0 | 12497.7 | 10969.2 | 9950.1  | 9506.1  |
| 50°   | 26090.9 | 26141.9 | 24194.8 | 19929.4 | 16177.2 | 14783.3 | 13655.1 | 11758.9 | 10547.0 | 9972.0  |
| 52.5° | 28405.6 | 28412.8 | 26604.1 | 22233.1 | 17905.9 | 16311.8 | 14903.4 | 12661.5 | 11238.5 | 10590.7 |
| 55°   | 29854.0 | 29835.9 | 28292.7 | 24413.1 | 19893.0 | 17916.8 | 16286.3 | 13687.8 | 12082.8 | 11318.6 |
| 57.5° | 30905.8 | 30851.2 | 29457.4 | 26287.4 | 22011.1 | 19812.9 | 17851.3 | 14852.4 | 13080.0 | 12184.7 |
| 60°   | 31306.2 | 31273.4 | 30247.1 | 27907.0 | 24238.4 | 21909.2 | 19656.4 | 16155.3 | 14211.9 | 13207.4 |
| 62.5° | 31459.0 | 31520.9 | 31022.3 | 29475.6 | 26622.3 | 24231.2 | 21639.9 | 17713.0 | 15485.7 | 14364.7 |
| 65°   | 31997.7 | 32110.5 | 32008.6 | 31528.2 | 29315.4 | 26949.8 | 24271.2 | 19565.4 | 16875.9 | 15605.8 |
| 67.5° | 33064.0 | 33176.8 | 33220.5 | 33984.8 | 32605.4 | 30338.1 | 27553.9 | 21872.8 | 18502.7 | 16894.1 |
| 70°   | 33038.5 | 33005.8 | 33777.3 | 35939.1 | 36725.2 | 35029.3 | 31979.5 | 24711.6 | 20442.5 | 17964.1 |
| 72.5° | 30072.4 | 29810.4 | 31633.7 | 35917.3 | 40153.6 | 39927.9 | 37384.0 | 28372.8 | 22116.7 | 18095.1 |
| 75°   | 22560.7 | 21861.9 | 25082.8 | 32368.9 | 40725.0 | 42708.4 | 40819.6 | 30643.8 | 21720.0 | 15987.9 |
| 77.5° | 9648.1  | 8945.7  | 12741.6 | 23961.9 | 36448.7 | 39924.3 | 37667.9 | 26735.1 | 17338.1 | 10572.5 |
| 80°   | 2525.7  | 2522.1  | 3850.5  | 10863.6 | 24788.0 | 29482.8 | 25865.3 | 17265.3 | 9906.5  | 3777.7  |
| 82.5° | 1044.5  | 1019.0  | 1415.7  | 4225.4  | 12111.9 | 16544.7 | 13502.2 | 7701.0  | 3577.5  | 1022.7  |
| 85°   | 389.4   | 385.8   | 687.8   | 1459.4  | 4272.7  | 6823.9  | 4938.7  | 1968.9  | 891.7   | 498.6   |
| 87.5° | 109.2   | 105.5   | 149.2   | 505.9   | 1040.9  | 1579.5  | 844.3   | 323.9   | 251.1   | 196.5   |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 7846.6  | 0°    | 7846.6  | 7846.6  | 7846.6  | 7846.6  | 7846.6  | 7846.6  | 7846.6  | 7846.6  | 7846.6  | 7846.6  |
| 7861.1  | 2.5°  | 7872.0  | 7890.2  | 7923.0  | 7948.5  | 7981.2  | 8017.6  | 8068.6  | 8101.3  | 8134.1  | 8155.9  |
| 7879.3  | 5°    | 7904.8  | 7944.8  | 8028.5  | 8112.2  | 8210.5  | 8301.5  | 8407.0  | 8483.5  | 8545.3  | 8563.5  |
| 7944.8  | 7.5°  | 7977.6  | 8043.1  | 8185.0  | 8327.0  | 8483.5  | 8632.7  | 8785.5  | 8916.5  | 9022.1  | 9062.1  |
| 8061.3  | 10°   | 8105.0  | 8192.3  | 8392.5  | 8592.6  | 8800.1  | 9029.4  | 9225.9  | 9415.1  | 9564.4  | 9626.2  |
| 8199.6  | 12.5° | 8265.1  | 8374.3  | 8636.3  | 8912.9  | 9200.4  | 9517.0  | 9771.8  | 10004.7 | 10190.3 | 10274.0 |
| 8392.5  | 15°   | 8472.5  | 8614.5  | 8949.3  | 9320.5  | 9742.7  | 10183.1 | 10507.0 | 10765.4 | 10972.8 | 11074.7 |
| 8592.6  | 17.5° | 8698.2  | 8887.4  | 9309.6  | 9870.1  | 10474.2 | 11052.9 | 11431.4 | 11620.6 | 11835.3 | 11933.6 |
| 8778.2  | 20°   | 8916.5  | 9149.5  | 9753.6  | 10568.8 | 11373.1 | 11988.2 | 12293.9 | 12344.9 | 12359.4 | 12370.3 |
| 8952.9  | 22.5° | 9142.2  | 9455.2  | 10310.4 | 11449.6 | 12312.1 | 12737.9 | 12781.6 | 12563.2 | 12257.5 | 12115.6 |
| 9124.0  | 25°   | 9389.7  | 9804.6  | 11038.3 | 12421.3 | 13120.1 | 13171.0 | 12836.2 | 12304.8 | 11726.2 | 11460.5 |
| 9262.3  | 27.5° | 9629.9  | 10208.5 | 11911.8 | 13349.3 | 13702.4 | 13254.7 | 12534.1 | 11780.8 | 11082.0 | 10801.8 |
| 9360.6  | 30°   | 9870.1  | 10670.7 | 12876.2 | 14160.9 | 13968.0 | 13047.3 | 12057.4 | 11216.6 | 10514.2 | 10219.5 |
| 9447.9  | 32.5° | 10113.9 | 11209.4 | 13986.2 | 14746.9 | 13920.7 | 12606.9 | 11464.1 | 10583.4 | 9964.7  | 9655.3  |
| 9524.3  | 35°   | 10390.5 | 11871.7 | 15038.0 | 15067.1 | 13604.1 | 11959.1 | 10681.7 | 9826.4  | 9287.8  | 9040.3  |
| 9615.3  | 37.5° | 10750.8 | 12712.4 | 15966.1 | 15147.2 | 13050.9 | 11009.2 | 9709.9  | 8931.1  | 8487.1  | 8374.3  |
| 9750.0  | 40°   | 11198.5 | 13724.2 | 16675.8 | 15019.8 | 12232.0 | 9855.5  | 8647.2  | 8024.9  | 7773.8  | 7799.2  |
| 9931.9  | 42.5° | 11780.8 | 14856.1 | 17174.4 | 14692.3 | 11092.9 | 8665.4  | 7715.5  | 7438.9  | 7559.0  | 7661.0  |
| 10204.9 | 45°   | 12537.8 | 16031.6 | 17483.7 | 14135.5 | 9804.6  | 7657.3  | 7166.0  | 7231.5  | 7322.5  | 7333.4  |
| 10645.3 | 47.5° | 13505.8 | 17221.7 | 17687.5 | 13294.8 | 8490.7  | 6947.6  | 6816.6  | 6831.2  | 6813.0  | 6736.5  |
| 11304.0 | 50°   | 14714.1 | 18379.0 | 17869.5 | 12181.1 | 7373.4  | 6503.6  | 6328.9  | 6278.0  | 6026.9  | 5779.4  |
| 12181.1 | 52.5° | 16089.8 | 19441.7 | 17945.9 | 10798.1 | 6503.6  | 6132.4  | 5848.5  | 5528.3  | 5058.8  | 4982.3  |
| 13283.8 | 55°   | 17618.4 | 20424.3 | 17749.4 | 9098.5  | 5772.1  | 5655.6  | 5226.2  | 4840.4  | 4789.5  | 4723.9  |
| 14736.0 | 57.5° | 19445.3 | 21483.4 | 17349.0 | 7202.4  | 5022.4  | 5098.8  | 4680.3  | 4723.9  | 4633.0  | 4531.1  |
| 16603.0 | 60°   | 21443.4 | 22578.9 | 16646.6 | 5473.7  | 4247.2  | 4403.7  | 4538.3  | 4534.7  | 4509.2  | 4425.5  |
| 18571.9 | 62.5° | 23241.2 | 23299.5 | 15263.7 | 4192.6  | 3566.6  | 3865.0  | 4232.6  | 4229.0  | 4207.2  | 4159.8  |
| 20628.2 | 65°   | 24311.2 | 23190.3 | 12956.3 | 3300.9  | 3006.1  | 3421.0  | 3817.7  | 3846.9  | 3850.5  | 3846.9  |
| 22174.9 | 67.5° | 24122.0 | 21912.9 | 9790.0  | 2627.7  | 2543.9  | 2969.8  | 3406.5  | 3446.5  | 3475.6  | 3482.9  |
| 22371.4 | 70°   | 21982.0 | 19106.9 | 6383.5  | 2096.3  | 2132.7  | 2573.1  | 3017.1  | 3057.1  | 3082.6  | 3111.7  |
| 19412.6 | 72.5° | 17134.3 | 14048.1 | 3654.0  | 1696.0  | 1772.4  | 2231.0  | 2631.3  | 2678.6  | 2693.2  | 2747.8  |
| 13509.5 | 75°   | 10441.5 | 8261.5  | 1972.6  | 1335.7  | 1455.8  | 1907.0  | 2249.2  | 2303.7  | 2329.2  | 2394.7  |
| 6634.6  | 77.5° | 4964.2  | 3577.5  | 1124.6  | 1040.9  | 1171.9  | 1557.7  | 1899.8  | 1961.6  | 1892.5  | 1928.9  |
| 1830.6  | 80°   | 1677.8  | 1328.4  | 709.7   | 793.4   | 895.3   | 1215.6  | 1521.3  | 1583.1  | 1437.6  | 1430.3  |
| 607.8   | 82.5° | 585.9   | 538.6   | 451.3   | 527.7   | 578.7   | 869.8   | 1150.1  | 1230.1  | 1070.0  | 1066.3  |
| 273.0   | 85°   | 229.3   | 218.4   | 251.1   | 287.5   | 345.7   | 535.0   | 757.0   | 797.0   | 658.7   | 531.4   |
| 80.1    | 87.5° | 47.3    | 51.0    | 61.9    | 65.5    | 105.5   | 185.6   | 273.0   | 334.8   | 265.7   | 225.6   |
| 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°    |
|---------|
| 7846.6  |
| 8141.4  |
| 8570.8  |
| 9065.8  |
| 9629.9  |
| 10274.0 |
| 11067.4 |
| 11930.0 |
| 12399.5 |
| 12155.6 |
| 11500.5 |
| 10834.5 |
| 10252.2 |
| 9695.4  |
| 9094.9  |
| 8454.3  |
| 7886.6  |
| 7755.6  |
| 7406.2  |
| 6794.8  |
| 5812.1  |
| 5007.8  |
| 4734.9  |
| 4512.9  |
| 4396.4  |
| 4141.6  |
| 3846.9  |
| 3490.2  |
| 3126.2  |
| 2769.6  |
| 2402.0  |
| 1899.8  |
| 1415.7  |
| 1015.4  |
| 524.1   |
| 207.4   |
| 0.0     |