

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: P956837

Luminaire Tested: **GLAN-SB9B-840-U-T2U**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P956837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB9B-840-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 49717 lumens  
Efficiency: N/A  
Efficacy: 150.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 329.5  
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

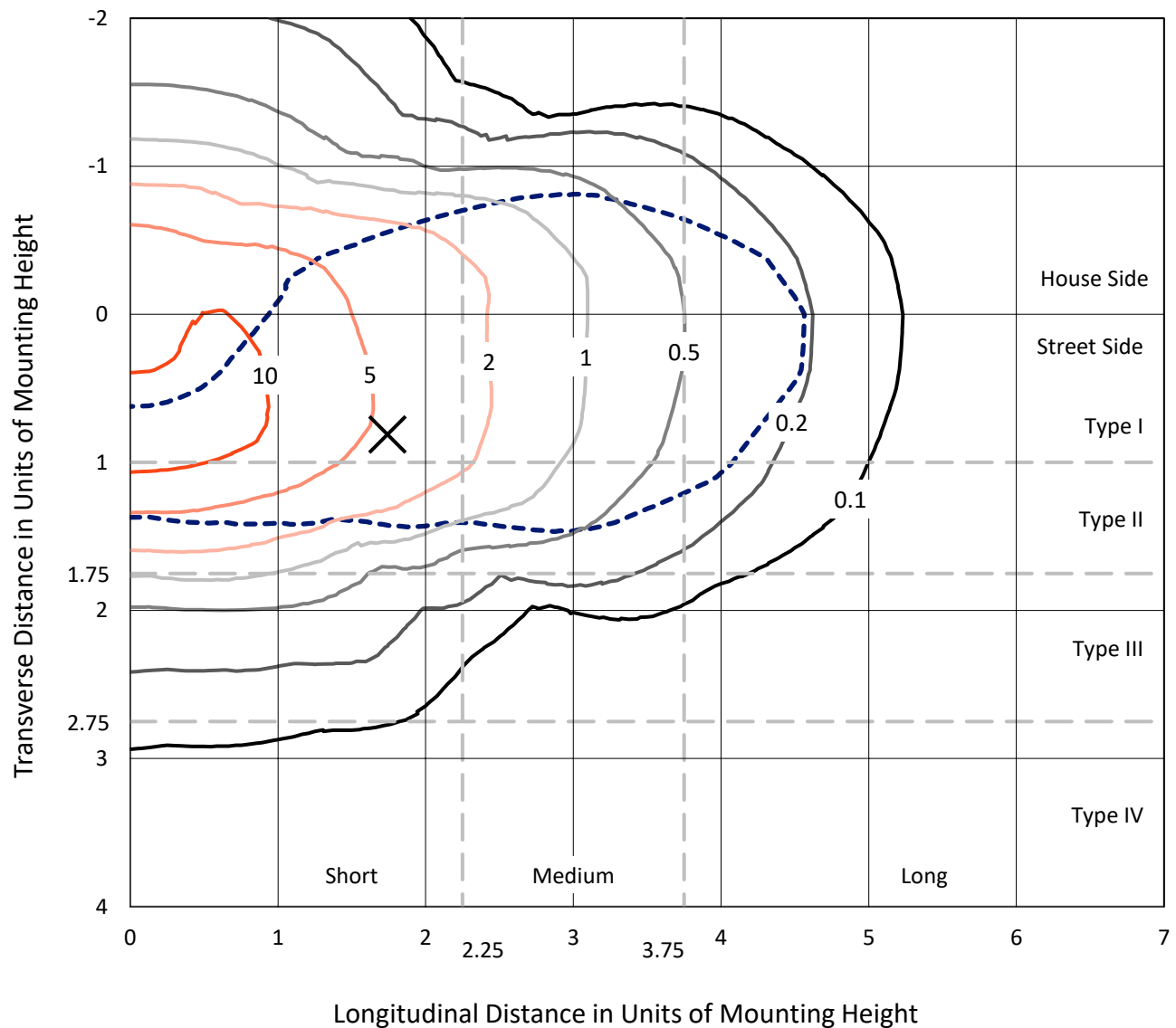


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## Iso-Footcandle Lines of Horizontal Illumination

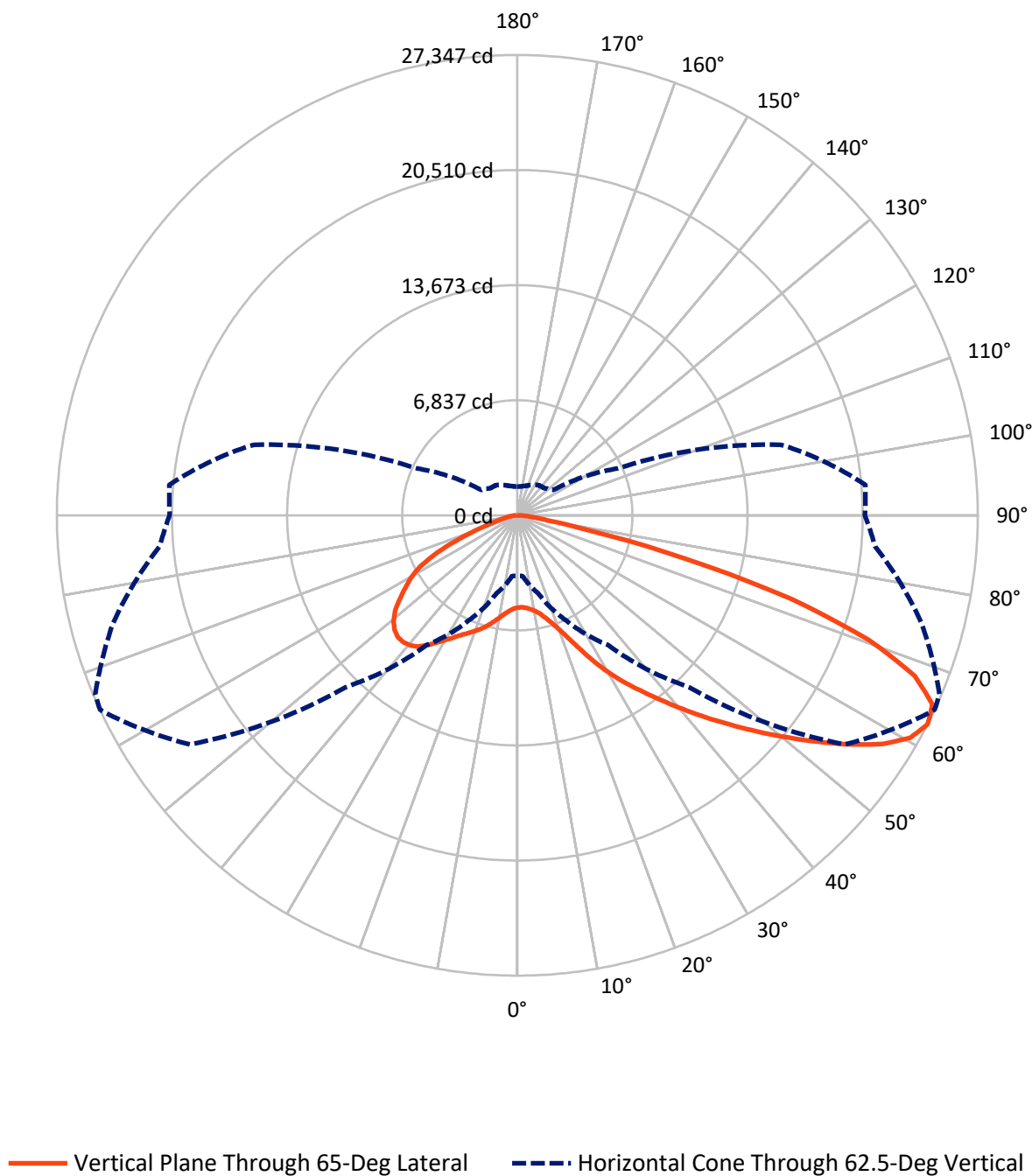
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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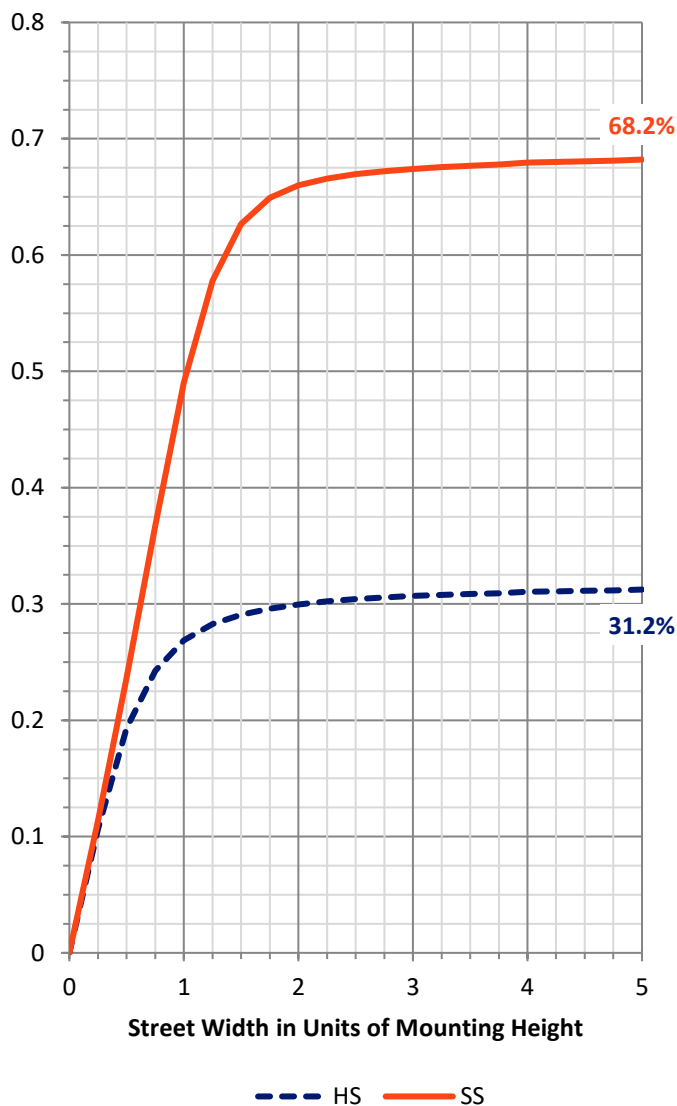
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15688.5  | 0.0    | 15688.5 |
|                    | % Fixture | 31.6     | 0.0    | 31.6    |
| <b>Street Side</b> | Lumens    | 34028.5  | 0.0    | 34028.5 |
|                    | % Fixture | 68.4     | 0.0    | 68.4    |
| <b>Total</b>       | Lumens    | 49717.0  | 0.0    | 49717.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 546.2   | 1.1       |
| 10°-20°   | 1852.2  | 3.7       |
| 20°-30°   | 3755.6  | 7.6       |
| 30°-40°   | 6499.1  | 13.1      |
| 40°-50°   | 9835.1  | 19.8      |
| 50°-60°   | 11531.0 | 23.2      |
| 60°-70°   | 9667.4  | 19.4      |
| 70°-80°   | 5337.2  | 10.7      |
| 80°-90°   | 693.3   | 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°    | 49717.0 | 100.0     |
| 0°-180°   | 49717.0 | 100.0     |

**Coefficient of Utilization**



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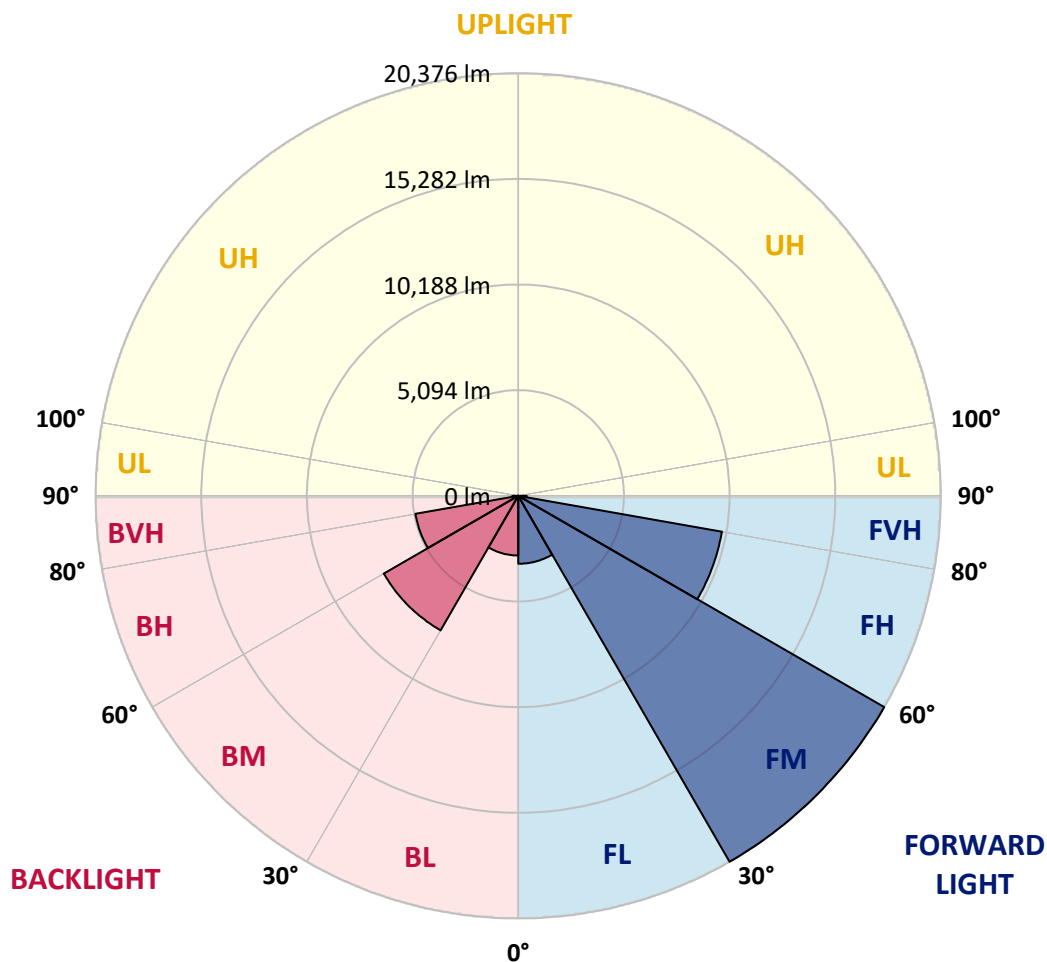
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3277.0  | 6.6       |                         |      |          |
| FM   | (30°-60°)   | 20375.6 | 41.0      |                         |      |          |
| FH   | (60°-80°)   | 9971.8  | 20.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 404.1   | 0.8       |                         |      | G3/500   |
| BL   | (0°-30°)    | 2877.1  | 5.8       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 7489.5  | 15.1      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 5032.7  | 10.1      | B5                      |      | G5       |
| BVH  | (80°-90°)   | 289.2   | 0.6       |                         |      | 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 II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5478.6  | 5478.6  | 5478.6  | 5478.6  | 5478.6  | 5478.6  | 5478.6  | 5478.6  | 5478.6  | 5478.6  |
| 2.5°  | 5442.5  | 5427.0  | 5439.9  | 5439.9  | 5445.1  | 5442.5  | 5460.5  | 5465.7  | 5473.4  | 5488.9  |
| 5°    | 5388.3  | 5385.7  | 5409.0  | 5429.6  | 5450.2  | 5468.3  | 5491.5  | 5525.0  | 5530.2  | 5548.2  |
| 7.5°  | 5370.3  | 5354.8  | 5390.9  | 5416.7  | 5465.7  | 5509.6  | 5571.5  | 5628.2  | 5651.4  | 5659.2  |
| 10°   | 5509.6  | 5483.8  | 5517.3  | 5532.8  | 5574.0  | 5617.9  | 5690.1  | 5780.4  | 5806.2  | 5837.1  |
| 12.5° | 5746.9  | 5718.5  | 5767.5  | 5790.7  | 5829.4  | 5868.1  | 5917.1  | 6004.8  | 6017.7  | 6074.4  |
| 15°   | 6071.9  | 6038.3  | 6069.3  | 6097.6  | 6162.1  | 6198.2  | 6247.3  | 6332.4  | 6332.4  | 6376.2  |
| 17.5° | 6512.9  | 6469.1  | 6492.3  | 6502.6  | 6543.9  | 6598.0  | 6680.6  | 6755.4  | 6794.1  | 6778.6  |
| 20°   | 7170.7  | 7116.5  | 7116.5  | 7064.9  | 7049.4  | 7093.3  | 7201.6  | 7304.8  | 7346.1  | 7266.1  |
| 22.5° | 8158.6  | 8081.2  | 8037.3  | 7861.9  | 7792.3  | 7797.5  | 7905.8  | 8032.2  | 8065.7  | 7923.8  |
| 25°   | 9414.7  | 9293.5  | 9234.2  | 8976.2  | 8818.9  | 8682.2  | 8767.3  | 8929.8  | 8976.2  | 8800.8  |
| 27.5° | 10670.9 | 10678.6 | 10621.9 | 10312.4 | 10051.8 | 9801.6  | 9757.8  | 9928.0  | 9977.0  | 9778.4  |
| 30°   | 12432.6 | 12249.5 | 12141.1 | 11769.7 | 11398.3 | 11047.5 | 10866.9 | 10936.6 | 10949.5 | 10712.2 |
| 32.5° | 13951.9 | 13905.4 | 13673.3 | 13348.3 | 12871.1 | 12321.7 | 12019.9 | 11909.0 | 11888.4 | 11550.5 |
| 35°   | 15682.6 | 15656.8 | 15411.8 | 15024.9 | 14509.0 | 13745.5 | 13201.3 | 12884.0 | 12858.2 | 12383.6 |
| 37.5° | 17441.8 | 17441.8 | 17201.9 | 16778.9 | 16244.9 | 15290.5 | 14462.6 | 13959.6 | 13877.1 | 13258.0 |
| 40°   | 18844.9 | 18759.8 | 18803.7 | 18625.7 | 18014.4 | 17000.7 | 15863.2 | 15133.2 | 15022.3 | 14279.4 |
| 42.5° | 19642.0 | 19613.6 | 19876.7 | 20075.3 | 19825.1 | 19015.2 | 17405.6 | 16404.8 | 16250.1 | 15404.0 |
| 45°   | 19819.9 | 19789.0 | 20258.4 | 20985.8 | 21336.6 | 21003.9 | 19082.2 | 17743.5 | 17555.2 | 16580.2 |
| 47.5° | 19409.8 | 19347.9 | 20036.6 | 21184.4 | 22309.0 | 22894.6 | 20898.1 | 19195.7 | 18922.3 | 17725.5 |
| 50°   | 18176.9 | 18117.5 | 19159.6 | 20684.0 | 22636.6 | 24179.1 | 22868.8 | 20735.6 | 20317.8 | 18953.3 |
| 52.5° | 15496.9 | 15525.3 | 17158.0 | 19252.5 | 22205.9 | 24978.7 | 24566.0 | 22358.0 | 21855.1 | 20209.4 |
| 55°   | 12071.5 | 12133.4 | 14140.1 | 16446.1 | 20482.8 | 24857.5 | 25724.1 | 24029.5 | 23529.1 | 21390.8 |
| 57.5° | 8643.5  | 8916.9  | 10797.3 | 13080.0 | 17173.5 | 22935.8 | 25976.9 | 25618.4 | 25133.5 | 22680.5 |
| 60°   | 5602.4  | 5651.4  | 7585.9  | 9886.8  | 13077.4 | 19520.7 | 25463.6 | 26822.9 | 26443.8 | 23995.9 |
| 62.5° | 3590.5  | 3624.0  | 4802.8  | 6915.3  | 9412.1  | 14441.9 | 23735.4 | 27346.6 | 27230.5 | 24865.2 |
| 65°   | 2638.7  | 2612.9  | 3226.8  | 4570.7  | 6340.1  | 8906.6  | 20379.7 | 27093.8 | 27323.3 | 25409.4 |
| 67.5° | 2202.8  | 2166.7  | 2468.5  | 3164.9  | 4671.3  | 5058.2  | 15079.0 | 25450.7 | 26291.6 | 25347.5 |
| 70°   | 2006.8  | 1975.8  | 2158.9  | 2349.8  | 3644.7  | 3386.7  | 7601.4  | 22125.9 | 23420.7 | 24643.4 |
| 72.5° | 1699.8  | 1645.6  | 1895.8  | 2086.7  | 2834.7  | 2597.4  | 3141.7  | 16995.5 | 18574.1 | 22386.4 |
| 75°   | 1318.1  | 1282.0  | 1496.0  | 1836.5  | 2130.6  | 2027.4  | 1986.1  | 10320.1 | 12043.1 | 17312.8 |
| 77.5° | 1044.6  | 995.6   | 1191.7  | 1431.6  | 1916.5  | 1529.6  | 1447.0  | 4444.3  | 6151.8  | 11052.6 |
| 80°   | 786.7   | 742.9   | 905.4   | 1132.3  | 1472.8  | 1153.0  | 936.3   | 1813.3  | 2318.9  | 5599.8  |
| 82.5° | 559.7   | 521.0   | 631.9   | 830.6   | 990.5   | 1034.3  | 575.2   | 1016.3  | 1142.7  | 2158.9  |
| 85°   | 358.5   | 335.3   | 423.0   | 521.0   | 629.4   | 665.5   | 350.8   | 531.4   | 582.9   | 889.9   |
| 87.5° | 196.0   | 159.9   | 227.0   | 242.5   | 291.5   | 265.7   | 167.7   | 193.5   | 208.9   | 322.4   |
| 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°   |
|---------|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 5478.6  | 0°    | 5478.6  | 5478.6  | 5478.6  | 5478.6  | 5478.6 | 5478.6 | 5478.6 | 5478.6 | 5478.6 | 5478.6 |
| 5488.9  | 2.5°  | 5499.2  | 5507.0  | 5532.8  | 5540.5  | 5558.6 | 5581.8 | 5597.2 | 5612.7 | 5612.7 | 5628.2 |
| 5571.5  | 5°    | 5574.0  | 5592.1  | 5646.3  | 5674.6  | 5721.1 | 5767.5 | 5795.9 | 5829.4 | 5850.0 | 5860.3 |
| 5703.0  | 7.5°  | 5718.5  | 5746.9  | 5824.2  | 5873.2  | 5953.2 | 6017.7 | 6061.5 | 6108.0 | 6118.3 | 6146.7 |
| 5886.1  | 10°   | 5914.5  | 5948.0  | 6035.7  | 6128.6  | 6224.0 | 6304.0 | 6345.3 | 6378.8 | 6391.7 | 6396.9 |
| 6120.9  | 12.5° | 6138.9  | 6187.9  | 6301.4  | 6414.9  | 6515.5 | 6585.2 | 6595.5 | 6587.7 | 6551.6 | 6520.7 |
| 6409.8  | 15°   | 6414.9  | 6458.8  | 6585.2  | 6709.0  | 6807.0 | 6819.9 | 6755.4 | 6714.1 | 6670.3 | 6662.5 |
| 6732.2  | 17.5° | 6745.1  | 6768.3  | 6884.4  | 7005.6  | 7013.3 | 6969.5 | 6874.0 | 6835.4 | 6794.1 | 6765.7 |
| 7152.6  | 20°   | 7129.4  | 7121.7  | 7204.2  | 7255.8  | 7201.6 | 7067.5 | 6923.0 | 6858.6 | 6817.3 | 6783.8 |
| 7668.5  | 22.5° | 7588.5  | 7529.2  | 7518.9  | 7506.0  | 7361.5 | 7080.4 | 6884.4 | 6801.8 | 6737.3 | 6690.9 |
| 8388.1  | 25°   | 8256.6  | 8029.6  | 7872.3  | 7784.6  | 7459.6 | 7010.7 | 6760.5 | 6577.4 | 6456.2 | 6376.2 |
| 9267.7  | 27.5° | 9092.3  | 8710.6  | 8313.3  | 8099.2  | 7459.6 | 6868.9 | 6461.3 | 6164.7 | 5966.1 | 5883.6 |
| 10118.9 | 30°   | 9889.3  | 9489.5  | 8904.0  | 8478.4  | 7441.5 | 6636.7 | 5979.0 | 5566.3 | 5334.2 | 5251.6 |
| 10846.3 | 32.5° | 10570.3 | 10134.4 | 9530.8  | 8893.7  | 7397.7 | 6260.1 | 5380.6 | 4924.0 | 4699.6 | 4601.6 |
| 11565.9 | 35°   | 11202.2 | 10737.9 | 10160.2 | 9350.2  | 7281.6 | 5708.2 | 4722.8 | 4374.6 | 4124.4 | 3967.1 |
| 12298.5 | 37.5° | 11849.7 | 11297.7 | 10756.0 | 9762.9  | 7072.7 | 5063.3 | 4217.3 | 3920.7 | 3626.6 | 3415.1 |
| 13077.4 | 40°   | 12553.8 | 11893.5 | 11393.1 | 10008.0 | 6729.6 | 4449.4 | 3825.2 | 3554.4 | 3242.3 | 3017.9 |
| 13975.1 | 42.5° | 13376.7 | 12608.0 | 12102.4 | 10134.4 | 6260.1 | 4013.5 | 3569.9 | 3304.2 | 3010.1 | 2827.0 |
| 14937.2 | 45°   | 14235.6 | 13394.7 | 12749.9 | 10131.8 | 5736.5 | 3809.7 | 3487.3 | 3224.2 | 2899.2 | 2708.3 |
| 15925.1 | 47.5° | 15135.8 | 14217.5 | 13309.6 | 9966.7  | 5282.6 | 3838.1 | 3440.9 | 3051.4 | 2692.9 | 2507.2 |
| 16923.3 | 50°   | 16038.6 | 15117.7 | 13851.3 | 9657.2  | 5089.1 | 3776.2 | 3268.1 | 2808.9 | 2385.9 | 2218.3 |
| 17859.6 | 52.5° | 16933.6 | 16074.7 | 14318.1 | 9216.1  | 4893.1 | 3546.6 | 3046.2 | 2494.3 | 2259.5 | 2143.5 |
| 18826.9 | 55°   | 17833.8 | 17021.3 | 14826.3 | 8573.9  | 4403.0 | 3278.4 | 2674.8 | 2375.6 | 2158.9 | 2053.2 |
| 19773.5 | 57.5° | 18736.6 | 18115.0 | 15308.6 | 7931.6  | 3786.5 | 2948.2 | 2471.0 | 2231.2 | 2058.3 | 1968.1 |
| 20565.4 | 60°   | 19675.5 | 19366.0 | 15806.4 | 7340.9  | 3177.8 | 2525.2 | 2321.4 | 2115.1 | 1939.7 | 1839.1 |
| 21326.3 | 62.5° | 20642.8 | 20743.4 | 16195.9 | 6580.0  | 2618.1 | 2267.3 | 2187.3 | 1975.8 | 1805.6 | 1710.1 |
| 21955.7 | 65°   | 21617.8 | 22071.7 | 16451.3 | 5525.0  | 2122.8 | 2022.2 | 2042.9 | 1823.6 | 1650.8 | 1568.3 |
| 22417.4 | 67.5° | 22352.9 | 23028.7 | 16379.0 | 4181.2  | 1741.1 | 1790.1 | 1862.3 | 1663.7 | 1501.2 | 1436.7 |
| 22342.6 | 70°   | 22435.4 | 22915.2 | 15667.1 | 2863.1  | 1457.3 | 1563.1 | 1661.1 | 1506.4 | 1338.7 | 1292.3 |
| 21290.2 | 72.5° | 21336.6 | 21367.6 | 13683.6 | 1870.0  | 1232.9 | 1372.2 | 1449.6 | 1346.4 | 1183.9 | 1137.5 |
| 18625.7 | 75°   | 18455.4 | 17671.3 | 10046.7 | 1232.9  | 1031.8 | 1178.8 | 1251.0 | 1178.8 | 1021.4 | 1031.8 |
| 13936.4 | 77.5° | 13982.8 | 12515.1 | 6100.2  | 877.0   | 861.5  | 990.5  | 1088.5 | 1036.9 | 902.8  | 1013.7 |
| 7008.2  | 80°   | 7204.2  | 6770.9  | 2721.2  | 655.2   | 681.0  | 791.9  | 895.0  | 828.0  | 714.5  | 681.0  |
| 1565.7  | 82.5° | 1650.8  | 1919.1  | 1073.0  | 469.4   | 492.7  | 570.0  | 683.5  | 621.6  | 513.3  | 433.3  |
| 652.6   | 85°   | 577.8   | 631.9   | 474.6   | 294.0   | 288.9  | 356.0  | 464.3  | 415.3  | 348.2  | 278.6  |
| 276.0   | 87.5° | 183.1   | 239.9   | 178.0   | 118.7   | 123.8  | 159.9  | 214.1  | 196.0  | 162.5  | 105.8  |
| 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°   |
|--------|
| 5478.6 |
| 5628.2 |
| 5865.5 |
| 6136.3 |
| 6384.0 |
| 6520.7 |
| 6662.5 |
| 6768.3 |
| 6786.3 |
| 6706.4 |
| 6407.2 |
| 5924.8 |
| 5300.6 |
| 4650.6 |
| 4018.7 |
| 3471.8 |
| 3061.7 |
| 2863.1 |
| 2739.3 |
| 2532.9 |
| 2228.6 |
| 2143.5 |
| 2042.9 |
| 1952.6 |
| 1831.4 |
| 1707.5 |
| 1565.7 |
| 1439.3 |
| 1294.8 |
| 1134.9 |
| 995.6  |
| 892.5  |
| 621.6  |
| 428.2  |
| 294.0  |
| 110.9  |
| 0.0    |