

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: P943926

Luminaire Tested: **GLAN-SB8C-850-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943926  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB8C-850-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45429 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 399.8  
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

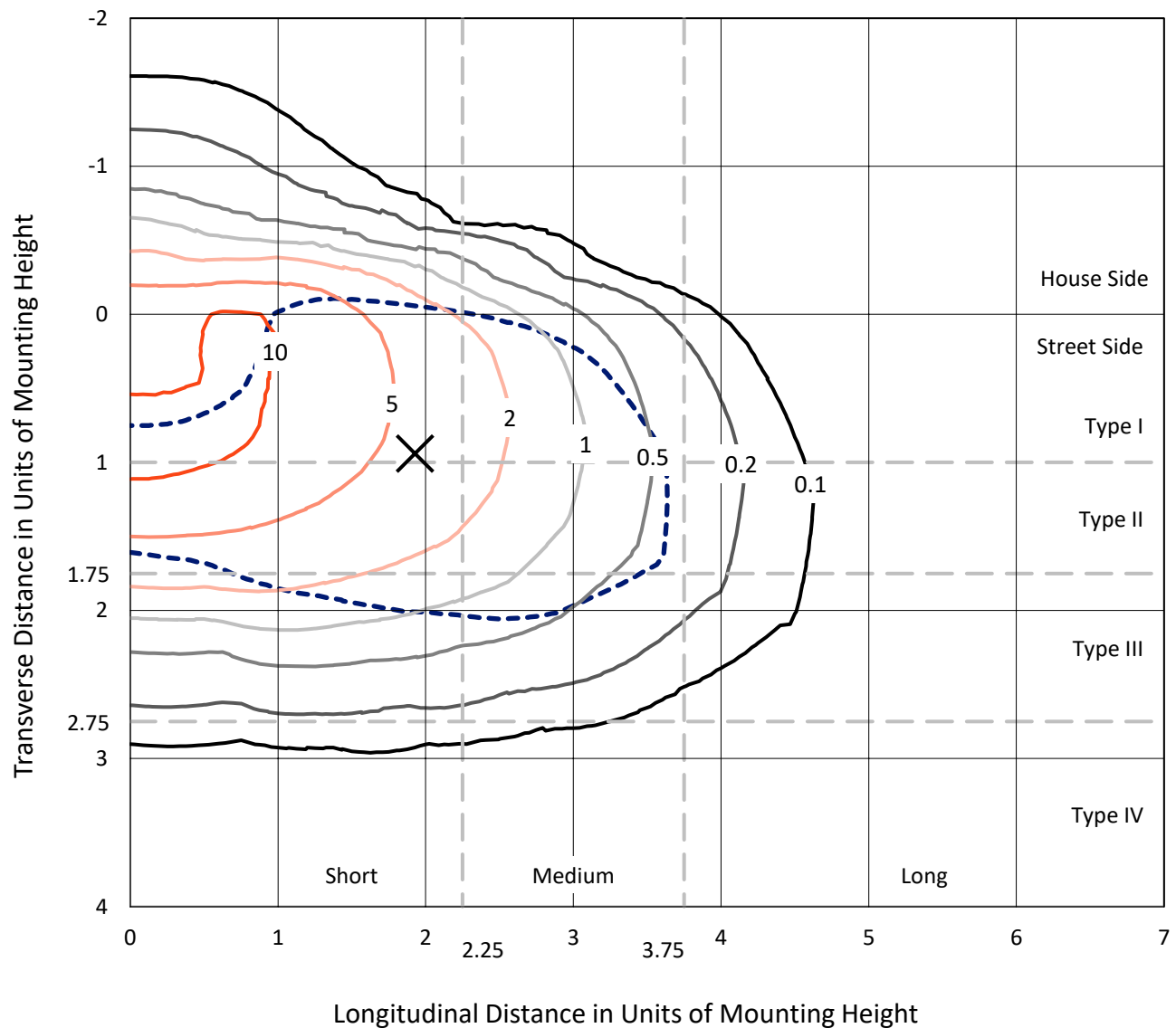


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## Iso-Footcandle Lines of Horizontal Illumination

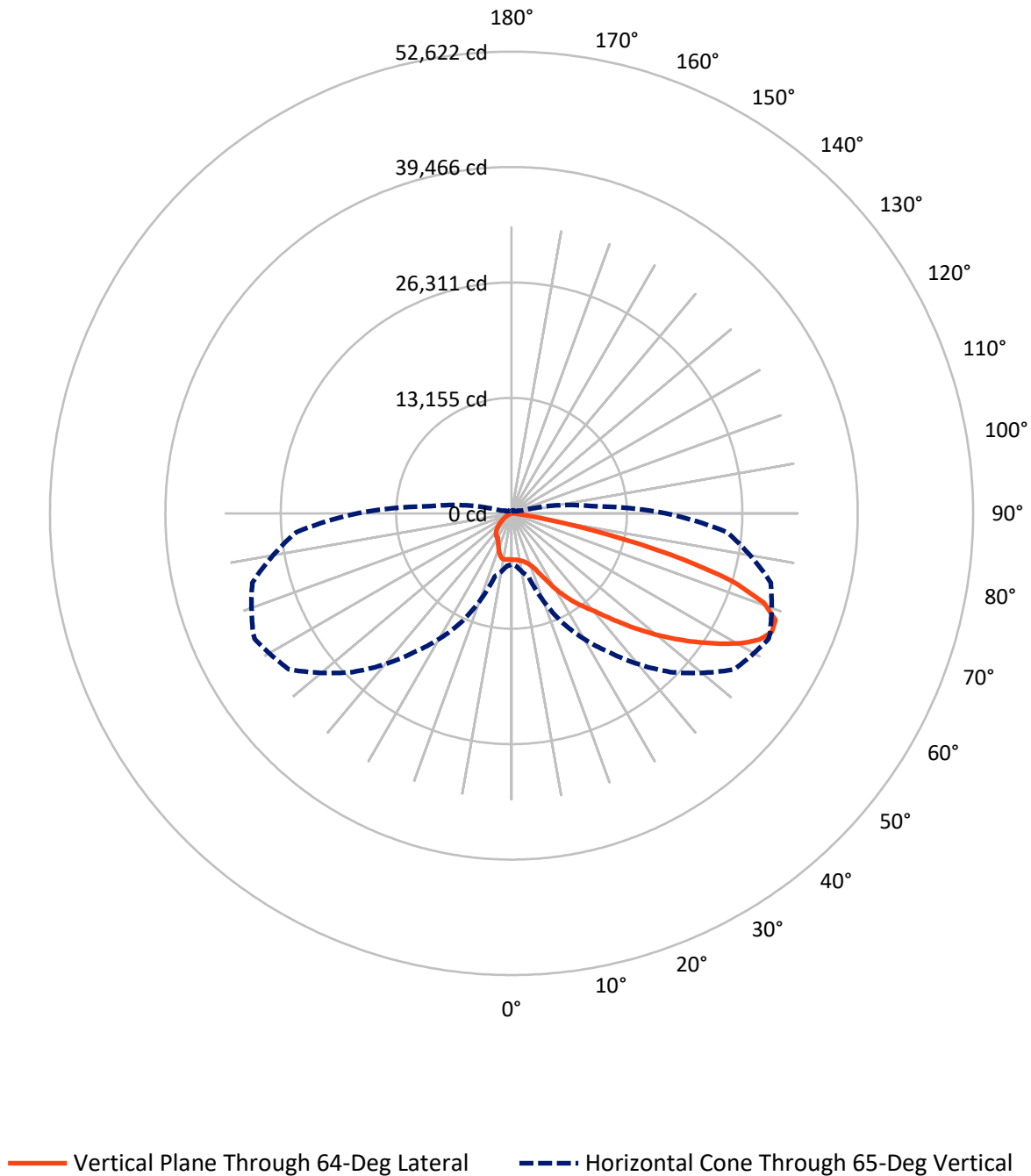
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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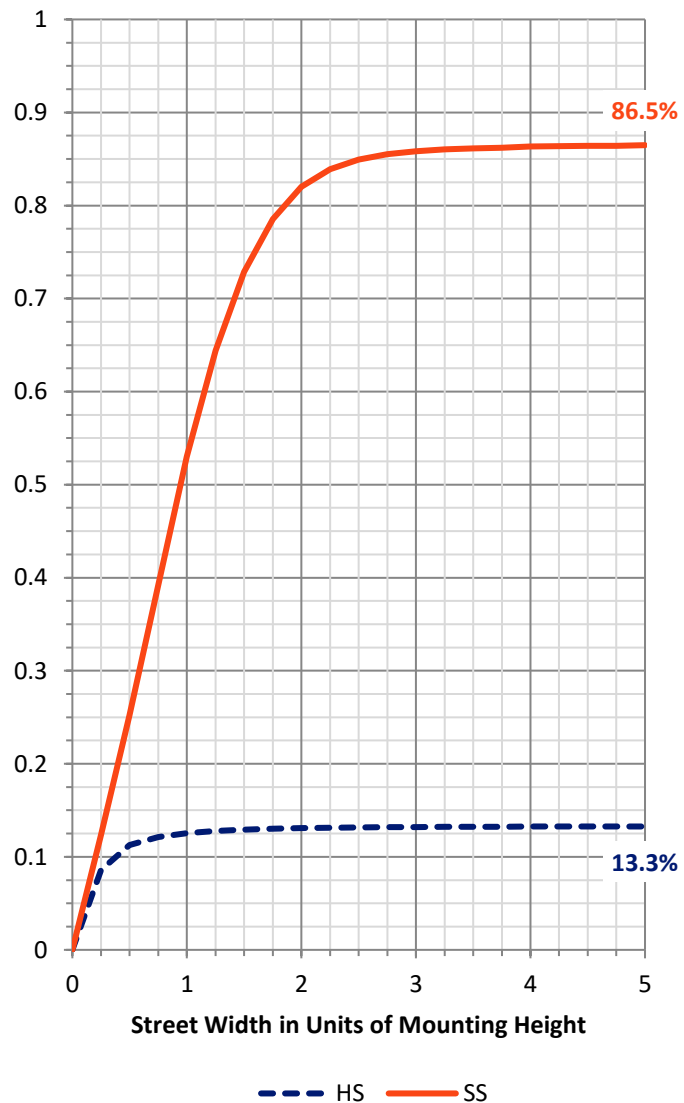
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6075.2   | 0.0    | 6075.2  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 39353.8  | 0.0    | 39353.8 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 45429.0  | 0.0    | 45429.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 487.5   | 1.1       |
| 10°-20°   | 1322.2  | 2.9       |
| 20°-30°   | 2505.5  | 5.5       |
| 30°-40°   | 5069.9  | 11.2      |
| 40°-50°   | 8636.6  | 19.0      |
| 50°-60°   | 11745.1 | 25.9      |
| 60°-70°   | 11029.3 | 24.3      |
| 70°-80°   | 4418.8  | 9.7       |
| 80°-90°   | 214.1   | 0.5       |
| 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°    | 45429.0 | 100.0     |
| 0°-180°   | 45429.0 | 100.0     |

**Coefficient of Utilization**



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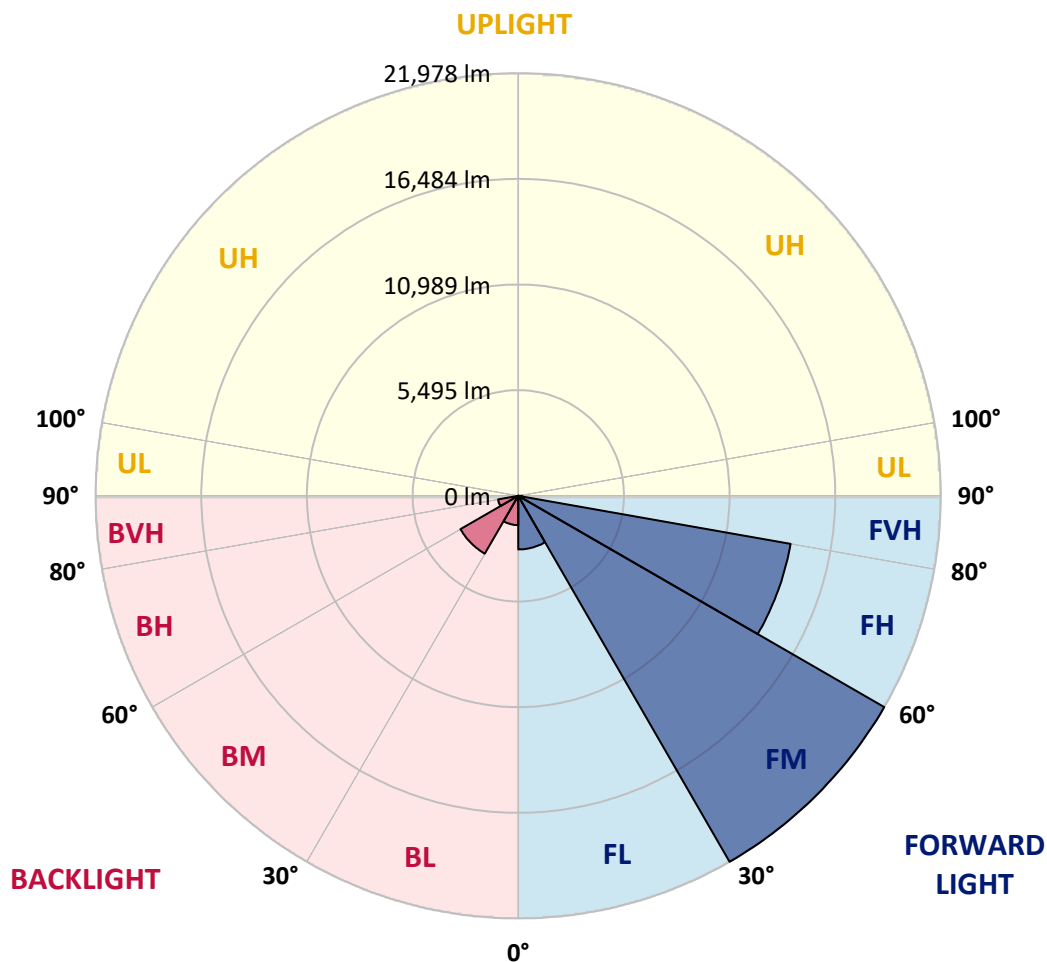
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2789.9  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 21978.5 | 48.4      |                         |      |         |
| FH   | (60°-80°)   | 14381.8 | 31.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 203.6   | 0.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1525.3  | 3.4       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3473.2  | 7.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1066.3  | 2.3       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 10.5    | 0.0       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5283.9  | 5283.9  | 5283.9  | 5283.9  | 5283.9  | 5283.9  | 5283.9  | 5283.9  | 5283.9  | 5283.9  |
| 2.5°  | 5265.6  | 5302.1  | 5293.0  | 5283.9  | 5280.8  | 5286.9  | 5290.0  | 5286.9  | 5286.9  | 5286.9  |
| 5°    | 5165.1  | 5195.5  | 5195.5  | 5216.9  | 5247.3  | 5283.9  | 5311.3  | 5317.4  | 5323.5  | 5332.6  |
| 7.5°  | 4973.2  | 4997.6  | 5015.9  | 5085.9  | 5162.0  | 5259.5  | 5341.7  | 5384.4  | 5390.5  | 5424.0  |
| 10°   | 4842.3  | 4872.7  | 4903.2  | 4976.3  | 5085.9  | 5232.1  | 5372.2  | 5475.7  | 5491.0  | 5570.1  |
| 12.5° | 4836.2  | 4866.6  | 4906.2  | 4985.4  | 5113.3  | 5268.6  | 5439.2  | 5588.4  | 5615.8  | 5731.5  |
| 15°   | 4900.1  | 4936.7  | 4973.2  | 5070.7  | 5207.7  | 5396.5  | 5579.3  | 5765.0  | 5792.5  | 5956.9  |
| 17.5° | 5031.1  | 5079.8  | 5107.2  | 5204.7  | 5350.9  | 5561.0  | 5801.6  | 6014.8  | 6039.1  | 6231.0  |
| 20°   | 5290.0  | 5347.8  | 5357.0  | 5436.1  | 5579.3  | 5804.6  | 6090.9  | 6355.9  | 6386.3  | 6605.6  |
| 22.5° | 5826.0  | 5908.2  | 5835.1  | 5874.7  | 6002.6  | 6228.0  | 6538.6  | 6873.6  | 6916.2  | 7166.0  |
| 25°   | 6770.0  | 6885.8  | 6697.0  | 6630.0  | 6684.8  | 6919.3  | 7309.1  | 7732.4  | 7781.1  | 7982.1  |
| 27.5° | 8624.7  | 8475.5  | 8189.2  | 7909.0  | 7744.6  | 7878.6  | 8317.1  | 8841.0  | 8901.9  | 9096.8  |
| 30°   | 10662.1 | 10531.2 | 10144.4 | 9523.1  | 9133.3  | 9112.0  | 9517.0  | 10101.8 | 10171.8 | 10357.6 |
| 32.5° | 12702.6 | 12577.7 | 12157.5 | 11393.0 | 10717.0 | 10382.0 | 10662.1 | 11310.8 | 11347.4 | 11466.1 |
| 35°   | 14709.5 | 14581.6 | 14161.4 | 13378.7 | 12547.3 | 11785.9 | 11731.1 | 12462.0 | 12474.2 | 12599.0 |
| 37.5° | 16728.7 | 16622.1 | 16174.4 | 15407.0 | 14587.7 | 13537.0 | 13028.5 | 13552.3 | 13567.5 | 13689.3 |
| 40°   | 18169.2 | 18214.9 | 17907.3 | 17313.4 | 16609.9 | 15461.8 | 14484.2 | 14712.6 | 14621.2 | 14825.3 |
| 42.5° | 19405.6 | 19497.0 | 19229.0 | 18930.5 | 18522.5 | 17511.4 | 16287.1 | 16247.5 | 16101.3 | 16211.0 |
| 45°   | 20474.6 | 20550.7 | 20310.1 | 20240.1 | 20231.0 | 19521.4 | 18257.5 | 18020.0 | 17815.9 | 17794.6 |
| 47.5° | 20867.5 | 21013.6 | 21117.2 | 21351.7 | 21808.5 | 21510.0 | 20294.9 | 19926.4 | 19698.0 | 19530.5 |
| 50°   | 21016.7 | 21172.0 | 21525.3 | 22207.5 | 23288.6 | 23416.5 | 22323.2 | 21909.0 | 21628.8 | 21324.3 |
| 52.5° | 20815.7 | 21092.8 | 21567.9 | 22716.0 | 24284.5 | 24945.3 | 24269.2 | 23906.8 | 23587.0 | 23090.6 |
| 55°   | 19631.0 | 19908.1 | 20879.6 | 22710.0 | 24780.9 | 26017.3 | 26108.7 | 25947.3 | 25587.9 | 24805.2 |
| 57.5° | 17133.7 | 17544.9 | 19082.8 | 21936.4 | 24771.7 | 26940.1 | 27911.6 | 28027.3 | 27625.3 | 26504.6 |
| 60°   | 13674.1 | 14231.4 | 16107.4 | 20221.8 | 24007.3 | 27439.5 | 29492.2 | 30070.8 | 29644.5 | 28179.6 |
| 62.5° | 9541.4  | 10187.0 | 11962.5 | 17535.7 | 22259.2 | 27080.2 | 30646.4 | 31715.4 | 31392.6 | 29678.0 |
| 65°   | 5819.9  | 6027.0  | 7458.3  | 13799.0 | 19286.9 | 25575.7 | 31002.7 | 32604.6 | 32498.1 | 30594.6 |
| 67.5° | 3876.9  | 4050.5  | 4461.6  | 9462.2  | 14971.5 | 22569.9 | 30150.0 | 32449.3 | 32479.8 | 30445.4 |
| 70°   | 2335.9  | 2485.1  | 2753.1  | 5503.1  | 9702.8  | 17864.6 | 27509.6 | 30469.8 | 30646.4 | 28450.6 |
| 72.5° | 962.4   | 1062.9  | 1306.5  | 2494.2  | 5025.0  | 11338.2 | 21906.0 | 26160.5 | 26571.6 | 23922.0 |
| 75°   | 545.1   | 596.9   | 767.5   | 1251.7  | 2180.5  | 5283.9  | 13269.0 | 18571.2 | 19177.2 | 16488.1 |
| 77.5° | 362.4   | 386.8   | 496.4   | 810.1   | 1227.3  | 1802.9  | 5670.6  | 9675.4  | 10832.7 | 9005.4  |
| 80°   | 243.6   | 265.0   | 341.1   | 542.1   | 797.9   | 773.5   | 1806.0  | 3584.5  | 4409.8  | 3094.2  |
| 82.5° | 164.5   | 167.5   | 243.6   | 356.3   | 505.5   | 374.6   | 533.0   | 1114.6  | 1400.9  | 895.4   |
| 85°   | 94.4    | 91.4    | 179.7   | 207.1   | 225.4   | 155.3   | 161.4   | 335.0   | 438.5   | 377.6   |
| 87.5° | 12.2    | 18.3    | 70.0    | 54.8    | 30.5    | 33.5    | 33.5    | 57.9    | 85.3    | 91.4    |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5283.9  | 0°    | 5283.9  | 5283.9  | 5283.9 | 5283.9 | 5283.9 | 5283.9 | 5283.9 | 5283.9 | 5283.9 | 5283.9 |
| 5290.0  | 2.5°  | 5290.0  | 5286.9  | 5277.8 | 5268.6 | 5247.3 | 5235.1 | 5241.2 | 5235.1 | 5232.1 | 5235.1 |
| 5329.5  | 5°    | 5329.5  | 5320.4  | 5296.0 | 5265.6 | 5223.0 | 5171.2 | 5137.7 | 5089.0 | 5043.3 | 5015.9 |
| 5436.1  | 7.5°  | 5436.1  | 5427.0  | 5393.5 | 5308.2 | 5171.2 | 4955.0 | 4757.0 | 4583.4 | 4452.5 | 4376.3 |
| 5606.7  | 10°   | 5606.7  | 5591.5  | 5539.7 | 5350.9 | 4991.5 | 4519.5 | 4126.6 | 3800.7 | 3587.5 | 3487.0 |
| 5807.7  | 12.5° | 5807.7  | 5789.4  | 5698.0 | 5311.3 | 4650.4 | 3913.4 | 3371.3 | 3008.9 | 2811.0 | 2722.6 |
| 6039.1  | 15°   | 6045.2  | 6020.9  | 5841.2 | 5122.5 | 4154.0 | 3243.4 | 2747.0 | 2476.0 | 2348.0 | 2268.9 |
| 6334.5  | 17.5° | 6340.6  | 6298.0  | 5947.8 | 4839.2 | 3615.0 | 2731.8 | 2363.3 | 2159.2 | 2046.5 | 1970.4 |
| 6721.3  | 20°   | 6724.4  | 6654.3  | 6033.0 | 4501.2 | 3118.5 | 2409.0 | 2104.4 | 1933.9 | 1848.6 | 1781.6 |
| 7269.5  | 22.5° | 7260.4  | 7159.9  | 6136.6 | 4135.7 | 2768.3 | 2186.6 | 1912.5 | 1787.7 | 1717.6 | 1641.5 |
| 8033.9  | 25°   | 7924.3  | 7805.5  | 6264.5 | 3797.7 | 2527.7 | 1994.8 | 1772.5 | 1668.9 | 1586.7 | 1498.4 |
| 9035.9  | 27.5° | 8853.1  | 8640.0  | 6416.8 | 3520.5 | 2320.6 | 1830.3 | 1644.5 | 1528.8 | 1434.4 | 1361.3 |
| 10171.8 | 30°   | 9888.6  | 9538.4  | 6550.8 | 3353.0 | 2131.8 | 1678.0 | 1477.0 | 1361.3 | 1273.0 | 1221.2 |
| 11192.0 | 32.5° | 10869.2 | 10394.1 | 6639.1 | 3280.0 | 1961.3 | 1504.5 | 1294.3 | 1169.5 | 1102.5 | 1087.2 |
| 12191.0 | 35°   | 11795.0 | 11167.7 | 6630.0 | 3209.9 | 1809.0 | 1330.9 | 1114.6 | 986.7  | 935.0  | 944.1  |
| 13266.0 | 37.5° | 12861.0 | 11993.0 | 6566.0 | 3100.3 | 1684.1 | 1172.5 | 959.3  | 846.6  | 801.0  | 804.0  |
| 14572.5 | 40°   | 14100.5 | 12946.2 | 6526.4 | 2893.2 | 1547.1 | 1026.3 | 831.4  | 740.0  | 706.5  | 694.4  |
| 15949.0 | 42.5° | 15422.2 | 13869.0 | 6532.5 | 2658.7 | 1376.5 | 895.4  | 743.1  | 667.0  | 636.5  | 627.4  |
| 17480.9 | 45°   | 16750.0 | 14749.1 | 6541.6 | 2415.0 | 1196.9 | 794.9  | 679.1  | 615.2  | 596.9  | 584.7  |
| 19034.1 | 47.5° | 17998.6 | 15498.3 | 6371.1 | 2153.1 | 1020.2 | 718.7  | 627.4  | 584.7  | 569.5  | 554.3  |
| 20593.4 | 50°   | 19162.0 | 15997.8 | 5960.0 | 1848.6 | 880.1  | 657.8  | 587.8  | 557.3  | 542.1  | 526.9  |
| 22006.5 | 52.5° | 20066.5 | 16077.0 | 5280.8 | 1534.9 | 782.7  | 612.1  | 563.4  | 536.0  | 517.7  | 502.5  |
| 23148.5 | 55°   | 20468.5 | 15580.5 | 4315.4 | 1242.5 | 706.5  | 572.5  | 539.0  | 511.6  | 490.3  | 475.1  |
| 24046.9 | 57.5° | 20365.0 | 14536.0 | 3365.2 | 998.9  | 633.5  | 533.0  | 508.6  | 490.3  | 466.0  | 441.6  |
| 24774.8 | 60°   | 19856.4 | 13138.1 | 2536.9 | 831.4  | 566.5  | 490.3  | 475.1  | 459.9  | 426.4  | 389.8  |
| 25055.0 | 62.5° | 18976.2 | 11380.9 | 1809.0 | 688.3  | 493.4  | 441.6  | 435.5  | 423.3  | 374.6  | 307.6  |
| 24640.8 | 65°   | 17630.1 | 9246.0  | 1218.2 | 572.5  | 423.3  | 386.8  | 389.8  | 368.5  | 304.5  | 228.4  |
| 23124.1 | 67.5° | 15662.8 | 6760.9  | 779.6  | 469.0  | 353.3  | 322.8  | 325.9  | 313.7  | 258.9  | 194.9  |
| 20249.2 | 70°   | 13156.4 | 4476.8  | 508.6  | 356.3  | 283.2  | 249.7  | 268.0  | 271.0  | 219.3  | 158.4  |
| 15541.0 | 72.5° | 9645.0  | 2643.5  | 356.3  | 265.0  | 207.1  | 173.6  | 219.3  | 225.4  | 176.6  | 118.8  |
| 9349.5  | 75°   | 5497.0  | 1254.7  | 268.0  | 191.9  | 127.9  | 121.8  | 170.5  | 170.5  | 121.8  | 79.2   |
| 4047.4  | 77.5° | 2308.5  | 523.8   | 188.8  | 124.9  | 73.1   | 70.0   | 115.7  | 106.6  | 60.9   | 36.5   |
| 986.7   | 80°   | 667.0   | 234.5   | 100.5  | 60.9   | 30.5   | 27.4   | 45.7   | 33.5   | 15.2   | 6.1    |
| 374.6   | 82.5° | 261.9   | 103.5   | 39.6   | 24.4   | 12.2   | 12.2   | 6.1    | 0.0    | 0.0    | 0.0    |
| 213.2   | 85°   | 155.3   | 42.6    | 18.3   | 9.1    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 45.7    | 87.5° | 39.6    | 9.1     | 6.1    | 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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| 180°   |
|--------|
| 5283.9 |
| 5247.3 |
| 5022.0 |
| 4379.4 |
| 3477.9 |
| 2713.5 |
| 2271.9 |
| 1964.3 |
| 1769.4 |
| 1629.3 |
| 1489.2 |
| 1346.1 |
| 1212.1 |
| 1096.4 |
| 944.1  |
| 816.2  |
| 691.3  |
| 624.3  |
| 584.7  |
| 554.3  |
| 526.9  |
| 499.5  |
| 472.0  |
| 438.5  |
| 383.7  |
| 301.5  |
| 222.3  |
| 185.8  |
| 152.3  |
| 112.7  |
| 73.1   |
| 36.5   |
| 6.1    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |