

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: P944605

Luminaire Tested: **GLAN-SB9C-850-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944605  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB9C-850-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 64650 lumens  
Efficiency: N/A  
Efficacy: 143.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B5 - U0 - G5

Input Watts (W): 449.8  
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

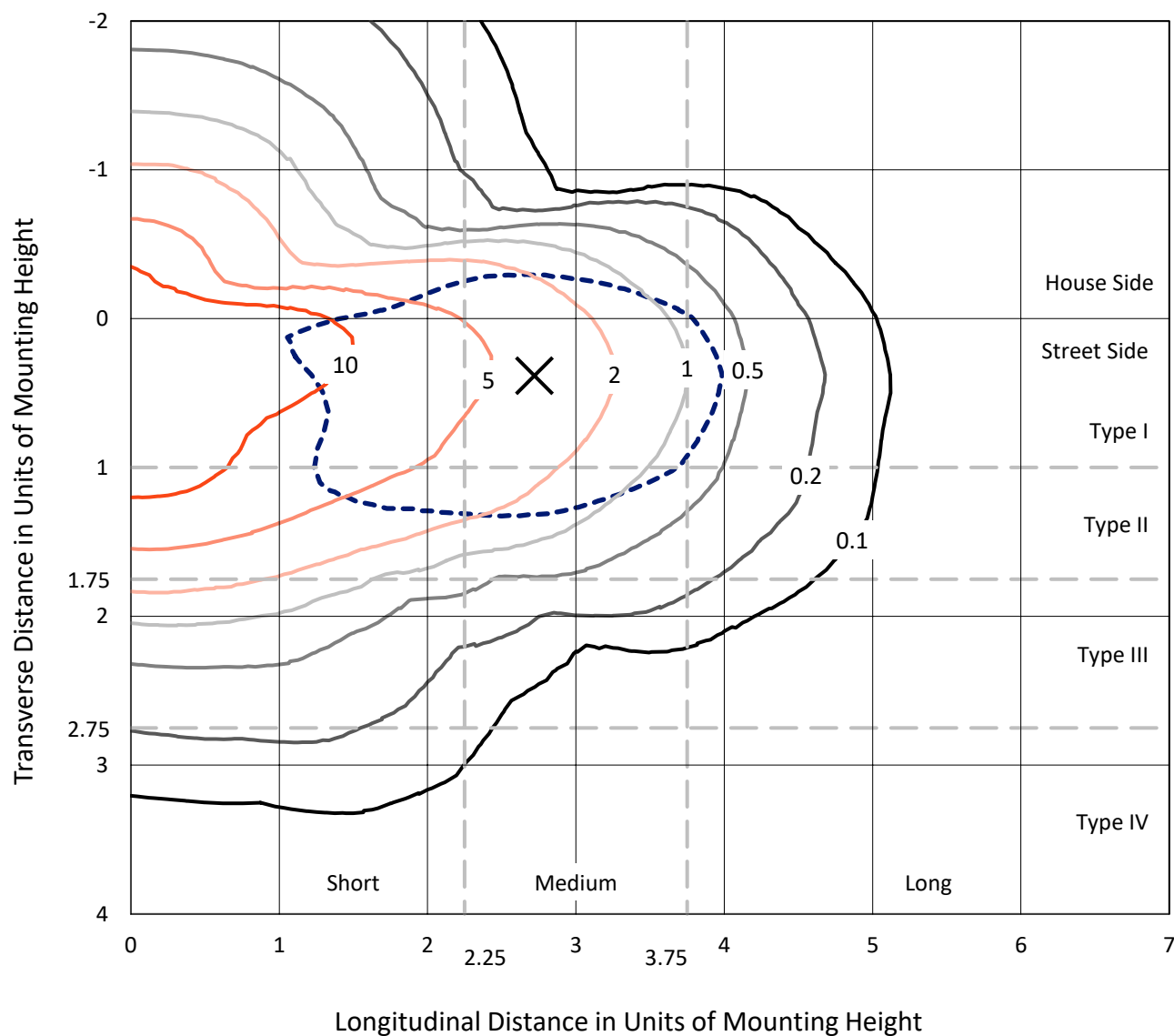


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## Iso-Footcandle Lines of Horizontal Illumination

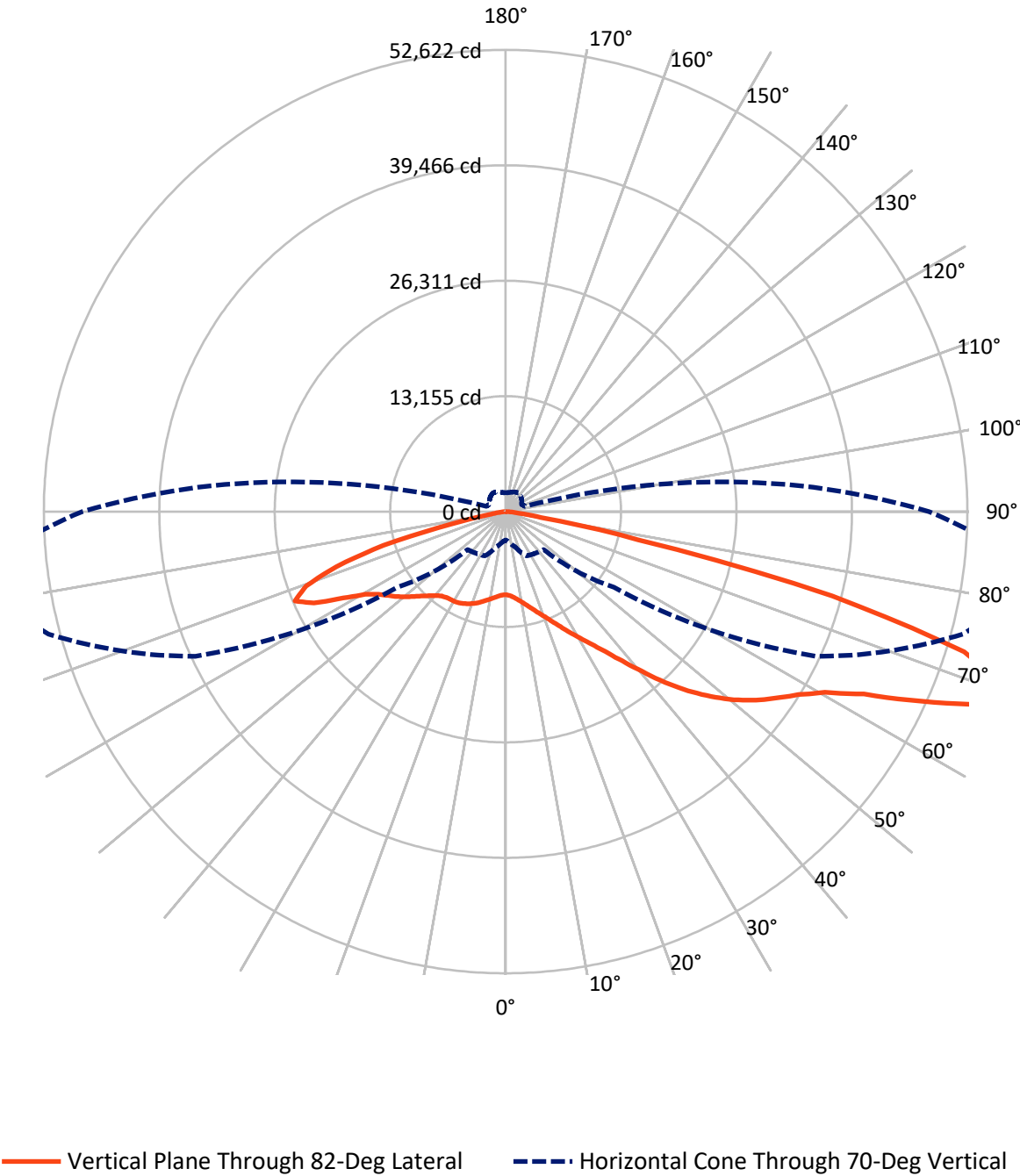
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc  
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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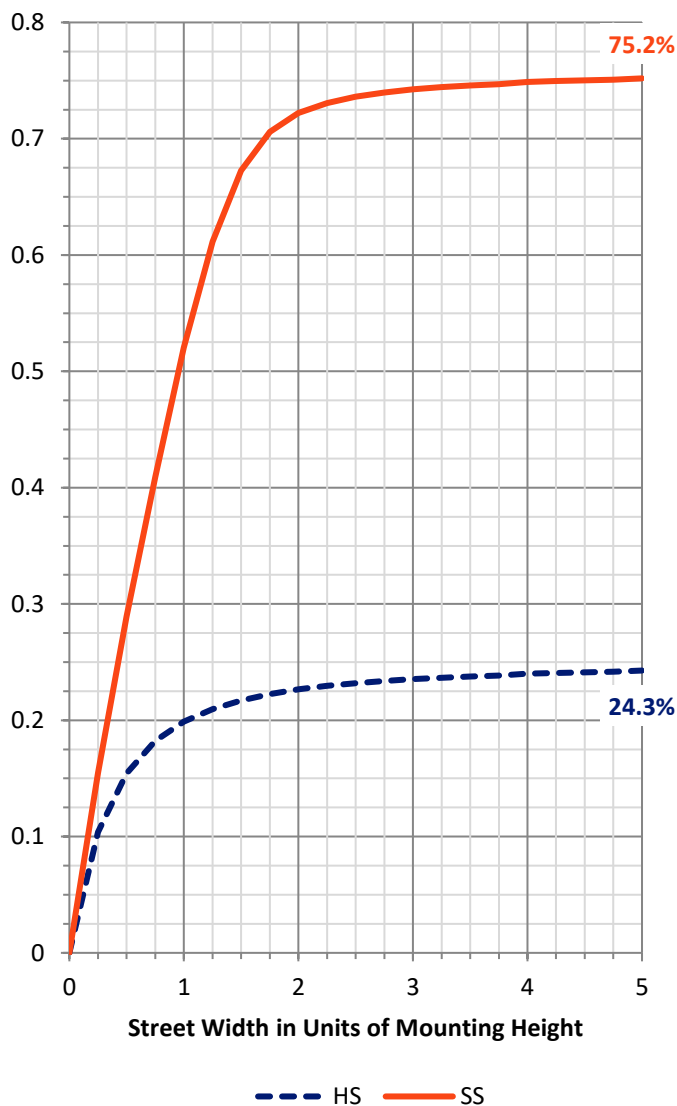
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15937.8  | 0.0    | 15937.8 |
|                    | % Fixture | 24.7     | 0.0    | 24.7    |
| <b>Street Side</b> | Lumens    | 48712.2  | 0.0    | 48712.2 |
|                    | % Fixture | 75.3     | 0.0    | 75.3    |
| <b>Total</b>       | Lumens    | 64650.0  | 0.0    | 64650.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 894.9   | 1.4       |
| 10°-20°   | 2571.2  | 4.0       |
| 20°-30°   | 4301.4  | 6.7       |
| 30°-40°   | 6719.9  | 10.4      |
| 40°-50°   | 10702.2 | 16.6      |
| 50°-60°   | 14893.4 | 23.0      |
| 60°-70°   | 15579.1 | 24.1      |
| 70°-80°   | 8142.5  | 12.6      |
| 80°-90°   | 845.5   | 1.3       |
| 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°    | 64650.0 | 100.0     |
| 0°-180°   | 64650.0 | 100.0     |

**Coefficient of Utilization**



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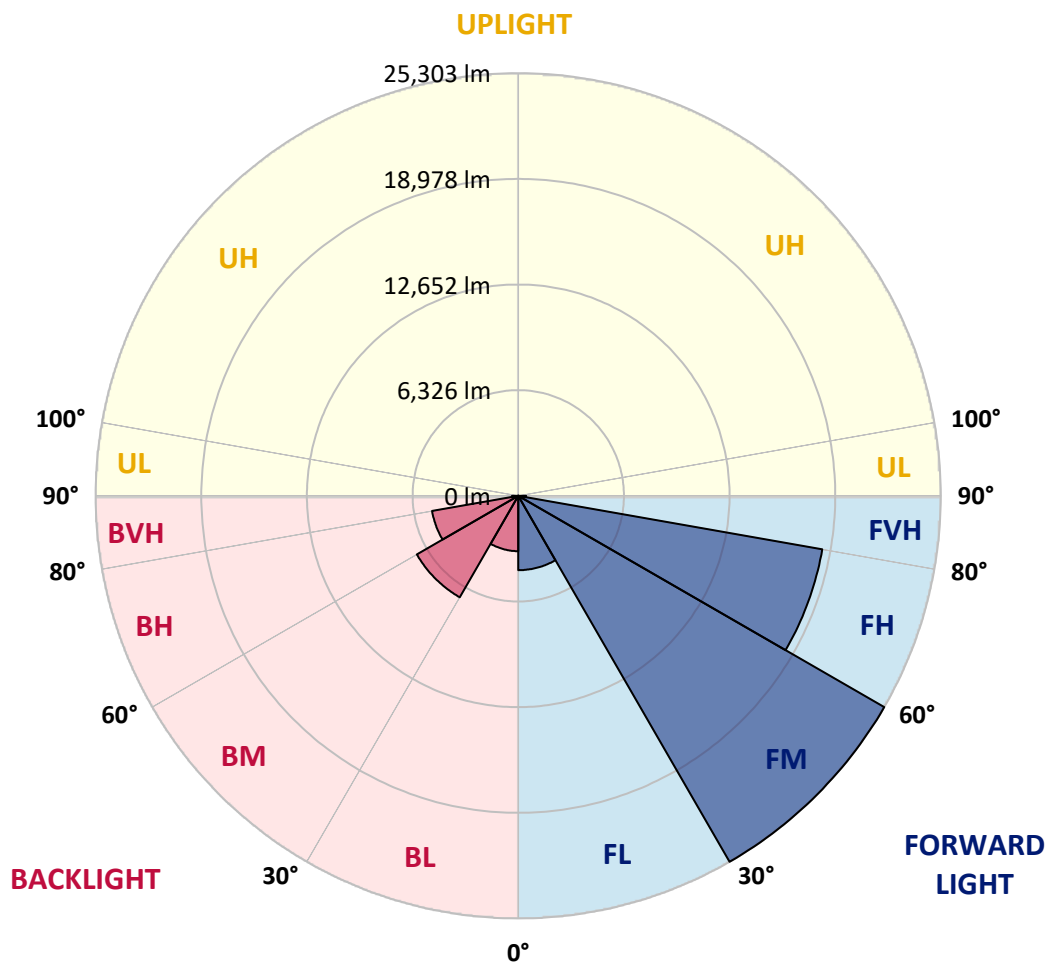
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 4451.9  | 6.9       |                         |      |        |
| FM   | (30°-60°)   | 25303.4 | 39.1      |                         |      |        |
| FH   | (60°-80°)   | 18483.6 | 28.6      |                         |      | G5     |
| FVH  | (80°-90°)   | 473.3   | 0.7       |                         |      | G3/500 |
| BL   | (0°-30°)    | 3315.6  | 5.1       | B4/5000                 |      |        |
| BM   | (30°-60°)   | 7012.0  | 10.8      | B4/8500                 |      |        |
| BH   | (60°-80°)   | 5238.0  | 8.1       | B5                      |      | G5     |
| BVH  | (80°-90°)   | 372.2   | 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 82°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9478.5  | 9478.5  | 9478.5  | 9478.5  | 9478.5  | 9478.5  | 9478.5  | 9478.5  | 9478.5  | 9478.5  |
| 2.5°  | 9704.9  | 9759.8  | 9742.6  | 9725.5  | 9725.5  | 9701.5  | 9698.1  | 9663.7  | 9636.3  | 9591.7  |
| 5°    | 9828.4  | 9886.7  | 9879.9  | 9893.6  | 9938.2  | 9948.5  | 9958.8  | 9938.2  | 9883.3  | 9828.4  |
| 7.5°  | 9718.6  | 9783.8  | 9804.4  | 9886.7  | 10023.9 | 10147.4 | 10240.1 | 10277.8 | 10226.3 | 10147.4 |
| 10°   | 9348.1  | 9420.2  | 9492.2  | 9687.8  | 9931.3  | 10222.9 | 10469.9 | 10617.4 | 10607.1 | 10531.7 |
| 12.5° | 8596.9  | 8672.3  | 8826.7  | 9207.5  | 9653.5  | 10168.0 | 10627.7 | 10936.5 | 11042.8 | 10987.9 |
| 15°   | 7996.5  | 8061.7  | 8178.3  | 8569.4  | 9149.2  | 9931.3  | 10686.0 | 11286.4 | 11557.4 | 11526.5 |
| 17.5° | 7979.4  | 8006.8  | 8078.9  | 8264.1  | 8710.1  | 9560.8  | 10624.3 | 11629.4 | 12147.4 | 12144.0 |
| 20°   | 8281.3  | 8291.5  | 8332.7  | 8370.4  | 8624.3  | 9279.5  | 10466.5 | 11914.2 | 12809.5 | 12809.5 |
| 22.5° | 8699.8  | 8692.9  | 8734.1  | 8699.8  | 8823.3  | 9255.5  | 10367.0 | 12164.6 | 13547.1 | 13602.0 |
| 25°   | 9327.6  | 9293.3  | 9283.0  | 9204.1  | 9228.1  | 9478.5  | 10476.8 | 12449.3 | 14421.9 | 14535.1 |
| 27.5° | 10164.6 | 10109.7 | 10072.0 | 9890.2  | 9828.4  | 9938.2  | 10813.0 | 12792.4 | 15396.1 | 15591.7 |
| 30°   | 11255.5 | 11156.0 | 11101.1 | 10785.5 | 10562.5 | 10579.7 | 11320.7 | 13248.6 | 16415.0 | 16730.6 |
| 32.5° | 12744.3 | 12590.0 | 12442.5 | 11924.5 | 11516.2 | 11382.4 | 11975.9 | 13879.8 | 17519.6 | 18023.9 |
| 35°   | 14411.6 | 14288.1 | 14130.3 | 13331.0 | 12703.2 | 12394.4 | 12861.0 | 14761.5 | 18812.9 | 19612.2 |
| 37.5° | 16017.0 | 15910.7 | 15986.2 | 14909.0 | 14099.4 | 13650.0 | 14020.5 | 15945.0 | 20408.1 | 21588.2 |
| 40°   | 17677.4 | 17595.1 | 17605.4 | 16576.2 | 15632.8 | 15128.5 | 15427.0 | 17430.4 | 22236.6 | 23938.1 |
| 42.5° | 19481.9 | 19420.1 | 19214.3 | 18301.8 | 17241.7 | 16771.8 | 17046.2 | 19145.7 | 24198.8 | 26613.9 |
| 45°   | 21502.4 | 21464.7 | 21272.6 | 20226.3 | 19011.9 | 18483.6 | 18854.1 | 21039.3 | 26171.4 | 29131.9 |
| 47.5° | 23248.6 | 23279.4 | 23255.4 | 22373.8 | 21114.8 | 20339.5 | 20782.0 | 23015.3 | 28006.7 | 31498.9 |
| 50°   | 24089.0 | 24250.3 | 24487.0 | 24212.5 | 23430.4 | 22641.4 | 22727.1 | 24922.7 | 29756.2 | 33718.5 |
| 52.5° | 23649.9 | 23955.2 | 24600.2 | 25039.3 | 25341.2 | 25176.5 | 24946.7 | 26816.3 | 31402.9 | 35721.9 |
| 55°   | 22013.6 | 22442.4 | 23512.7 | 24572.7 | 26113.0 | 27310.3 | 27612.2 | 28915.8 | 33008.4 | 37485.2 |
| 57.5° | 19032.5 | 19728.9 | 20689.4 | 22833.5 | 25426.9 | 28342.9 | 30720.2 | 31828.3 | 34709.9 | 39368.5 |
| 60°   | 13921.0 | 14854.1 | 16047.9 | 19238.3 | 23025.6 | 27790.6 | 33365.1 | 36301.7 | 37128.4 | 41807.6 |
| 62.5° | 8909.0  | 9485.4  | 10583.1 | 13588.2 | 17941.6 | 24960.4 | 34174.7 | 41893.4 | 41227.9 | 45807.6 |
| 65°   | 6099.4  | 6469.9  | 7475.1  | 9162.9  | 11598.6 | 18579.6 | 32006.7 | 46085.5 | 47739.0 | 52147.2 |
| 67.5° | 4432.2  | 4713.5  | 5571.1  | 7049.7  | 7557.4  | 10994.8 | 24836.9 | 45893.4 | 54068.3 | 58678.9 |
| 70°   | 3231.5  | 3430.5  | 4150.9  | 5571.1  | 5814.7  | 6116.6  | 15046.2 | 39011.8 | 53931.0 | 60414.7 |
| 72.5° | 2394.5  | 2531.7  | 3015.4  | 4322.4  | 4706.7  | 4130.3  | 7447.6  | 28353.2 | 46342.8 | 54644.6 |
| 75°   | 1732.4  | 1835.3  | 2192.1  | 3307.0  | 3766.7  | 3145.8  | 3715.2  | 16569.4 | 32325.7 | 38438.9 |
| 77.5° | 1324.2  | 1403.1  | 1636.4  | 2421.9  | 3015.4  | 2360.2  | 2305.3  | 7622.6  | 15327.5 | 15403.0 |
| 80°   | 1063.5  | 1114.9  | 1241.8  | 1705.0  | 2312.2  | 1766.7  | 1502.6  | 3077.2  | 4843.9  | 4099.5  |
| 82.5° | 782.2   | 867.9   | 1049.7  | 1197.2  | 1653.5  | 1217.8  | 915.9   | 1554.0  | 1842.2  | 1584.9  |
| 85°   | 446.0   | 504.3   | 634.6   | 857.6   | 1056.6  | 744.4   | 524.9   | 689.5   | 857.6   | 703.3   |
| 87.5° | 157.8   | 205.8   | 223.0   | 336.2   | 459.7   | 308.7   | 202.4   | 199.0   | 281.3   | 209.3   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9478.5  | 0°    | 9478.5  | 9478.5  | 9478.5 | 9478.5 | 9478.5 | 9478.5 | 9478.5 | 9478.5 | 9478.5 | 9478.5 |
| 9581.4  | 2.5°  | 9547.1  | 9530.0  | 9461.3 | 9368.7 | 9272.7 | 9180.0 | 9149.2 | 9084.0 | 9039.4 | 9015.4 |
| 9804.4  | 5°    | 9739.2  | 9684.3  | 9523.1 | 9317.3 | 9101.1 | 8867.9 | 8703.2 | 8552.3 | 8442.5 | 8339.6 |
| 10109.7 | 7.5°  | 10013.7 | 9917.6  | 9639.7 | 9279.5 | 8895.3 | 8507.7 | 8219.5 | 7999.9 | 7852.4 | 7756.4 |
| 10466.5 | 10°   | 10332.7 | 10185.2 | 9759.8 | 9221.2 | 8627.7 | 8072.0 | 7732.4 | 7543.7 | 7451.1 | 7399.6 |
| 10874.7 | 12.5° | 10699.8 | 10490.5 | 9883.3 | 9087.4 | 8219.5 | 7584.9 | 7351.6 | 7296.7 | 7300.1 | 7303.6 |
| 11389.3 | 15°   | 11152.6 | 10861.0 | 9982.8 | 8795.8 | 7687.8 | 7210.9 | 7169.8 | 7259.0 | 7351.6 | 7396.2 |
| 11972.5 | 17.5° | 11663.7 | 11252.1 | 9999.9 | 8315.6 | 7166.3 | 6970.8 | 7101.2 | 7293.3 | 7433.9 | 7495.7 |
| 12624.3 | 20°   | 12212.6 | 11650.0 | 9876.4 | 7636.3 | 6737.5 | 6775.3 | 7008.5 | 7255.5 | 7409.9 | 7488.8 |
| 13368.7 | 22.5° | 12840.4 | 12075.4 | 9581.4 | 6922.8 | 6387.6 | 6562.6 | 6837.0 | 7077.1 | 7238.4 | 7317.3 |
| 14243.5 | 25°   | 13557.4 | 12552.2 | 9118.3 | 6322.4 | 6085.7 | 6322.4 | 6596.9 | 6795.8 | 6926.2 | 6998.2 |
| 15221.2 | 27.5° | 14353.3 | 13049.7 | 8500.8 | 5845.6 | 5821.6 | 6075.4 | 6301.8 | 6456.2 | 6524.8 | 6579.7 |
| 16260.6 | 30°   | 15152.6 | 13502.5 | 7753.0 | 5485.4 | 5591.7 | 5831.9 | 5993.1 | 6061.7 | 6082.3 | 6092.6 |
| 17420.1 | 32.5° | 16017.0 | 13893.6 | 6967.4 | 5186.9 | 5372.2 | 5595.2 | 5691.2 | 5722.1 | 5626.0 | 5560.9 |
| 18826.6 | 35°   | 17063.4 | 14312.1 | 6198.9 | 4950.2 | 5156.1 | 5348.2 | 5379.0 | 5351.6 | 5238.4 | 5104.6 |
| 20589.9 | 37.5° | 18356.7 | 14833.5 | 5584.9 | 4782.1 | 4953.7 | 5080.6 | 5042.8 | 5036.0 | 5046.3 | 4888.5 |
| 22710.0 | 40°   | 19941.6 | 15512.8 | 5135.5 | 4651.8 | 4789.0 | 4816.4 | 4710.1 | 4768.4 | 4819.9 | 4579.7 |
| 25035.9 | 42.5° | 21701.4 | 16332.7 | 4850.7 | 4562.6 | 4651.8 | 4586.6 | 4421.9 | 4487.1 | 4480.2 | 4164.6 |
| 27372.0 | 45°   | 23495.6 | 17224.6 | 4751.3 | 4497.4 | 4524.8 | 4394.5 | 4212.7 | 4229.8 | 4085.7 | 3801.0 |
| 29612.2 | 47.5° | 25279.4 | 18181.7 | 4813.0 | 4442.5 | 4367.0 | 4219.5 | 4078.9 | 4003.4 | 3790.7 | 3578.0 |
| 31759.7 | 50°   | 27029.0 | 19186.8 | 5039.4 | 4332.7 | 4150.9 | 4065.2 | 3962.2 | 3828.4 | 3602.0 | 3420.2 |
| 33790.5 | 52.5° | 28651.6 | 20198.8 | 5293.3 | 4150.9 | 3879.9 | 3931.4 | 3866.2 | 3711.8 | 3488.8 | 3303.6 |
| 35711.6 | 55°   | 30188.5 | 21210.8 | 5392.8 | 3900.5 | 3626.0 | 3814.7 | 3777.0 | 3492.3 | 3224.7 | 3073.7 |
| 37721.9 | 57.5° | 31862.6 | 22428.7 | 5283.0 | 3581.5 | 3420.2 | 3680.9 | 3536.9 | 3221.2 | 3066.9 | 2953.7 |
| 40339.4 | 60°   | 34181.6 | 24339.5 | 5046.3 | 3186.9 | 3224.7 | 3482.0 | 3235.0 | 3104.6 | 2936.5 | 2809.6 |
| 44263.9 | 62.5° | 38034.1 | 27903.8 | 4665.5 | 2795.9 | 2994.8 | 3186.9 | 3090.9 | 2960.5 | 2789.0 | 2665.5 |
| 50973.9 | 65°   | 43728.7 | 32857.4 | 3948.5 | 2490.6 | 2737.5 | 2898.8 | 2936.5 | 2806.2 | 2627.8 | 2497.4 |
| 56853.8 | 67.5° | 48531.4 | 35965.5 | 2988.0 | 2236.7 | 2473.4 | 2665.5 | 2771.9 | 2644.9 | 2456.2 | 2329.3 |
| 58229.5 | 70°   | 48267.3 | 33708.2 | 2281.3 | 1986.3 | 2240.1 | 2435.7 | 2572.9 | 2473.4 | 2271.0 | 2150.9 |
| 52891.6 | 72.5° | 42871.1 | 28198.8 | 1845.6 | 1732.4 | 2003.4 | 2195.5 | 2360.2 | 2284.7 | 2078.9 | 1962.3 |
| 38747.6 | 75°   | 31495.5 | 20017.0 | 1475.1 | 1475.1 | 1708.4 | 1945.1 | 2126.9 | 2078.9 | 1890.2 | 1807.9 |
| 16267.5 | 77.5° | 13276.1 | 8397.9  | 1156.1 | 1224.7 | 1420.2 | 1670.7 | 1897.1 | 1914.2 | 1749.6 | 1852.5 |
| 4301.9  | 80°   | 3530.0  | 2315.6  | 881.6  | 964.0  | 1114.9 | 1379.1 | 1650.1 | 1643.2 | 1464.8 | 1368.8 |
| 1598.6  | 82.5° | 1344.8  | 912.5   | 627.8  | 679.2  | 806.2  | 1056.6 | 1307.0 | 1348.2 | 1169.8 | 1012.0 |
| 627.8   | 85°   | 518.0   | 391.1   | 387.6  | 408.2  | 470.0  | 699.8  | 988.0  | 1022.3 | 881.6  | 747.9  |
| 175.0   | 87.5° | 133.8   | 116.6   | 144.1  | 137.2  | 216.1  | 373.9  | 566.0  | 586.6  | 538.6  | 312.2  |
| 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°   |
|--------|
| 9478.5 |
| 9042.8 |
| 8380.7 |
| 7777.0 |
| 7413.3 |
| 7310.4 |
| 7392.7 |
| 7509.4 |
| 7509.4 |
| 7337.9 |
| 7018.8 |
| 6600.3 |
| 6116.6 |
| 5581.4 |
| 5111.5 |
| 4898.8 |
| 4586.6 |
| 4161.2 |
| 3811.3 |
| 3578.0 |
| 3406.5 |
| 3307.0 |
| 3060.0 |
| 2943.4 |
| 2802.7 |
| 2665.5 |
| 2504.3 |
| 2332.7 |
| 2161.2 |
| 1962.3 |
| 1783.9 |
| 1680.9 |
| 1272.7 |
| 1012.0 |
| 771.9  |
| 446.0  |
| 0.0    |