

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: P941365

Luminaire Tested: **GLAN-SB4D-840-U-T2**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P941365  
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-SB4D-840-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 38653 lumens  
Efficiency: N/A  
Efficacy: 131.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

Input Watts (W): 293.6  
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



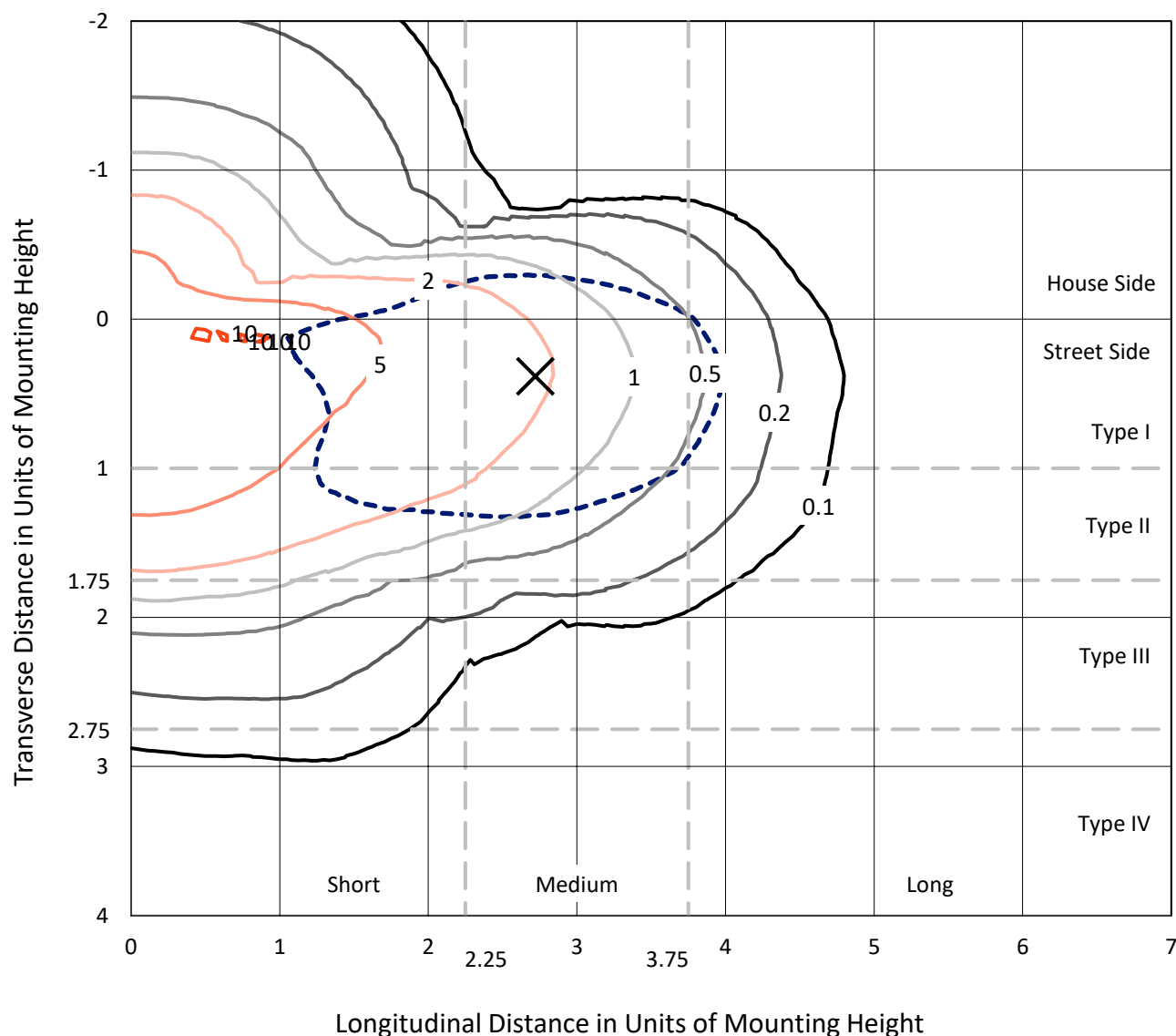
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

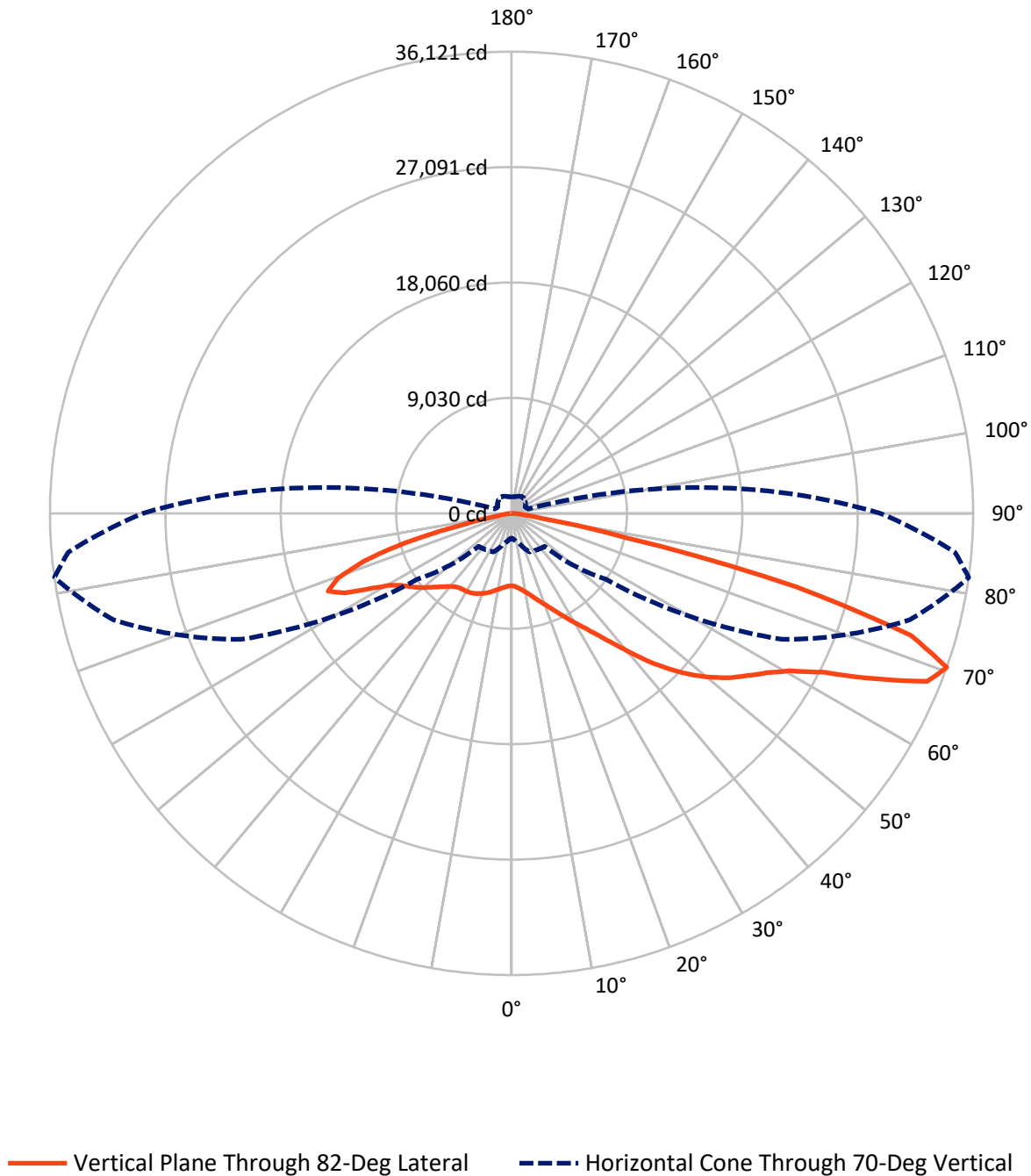
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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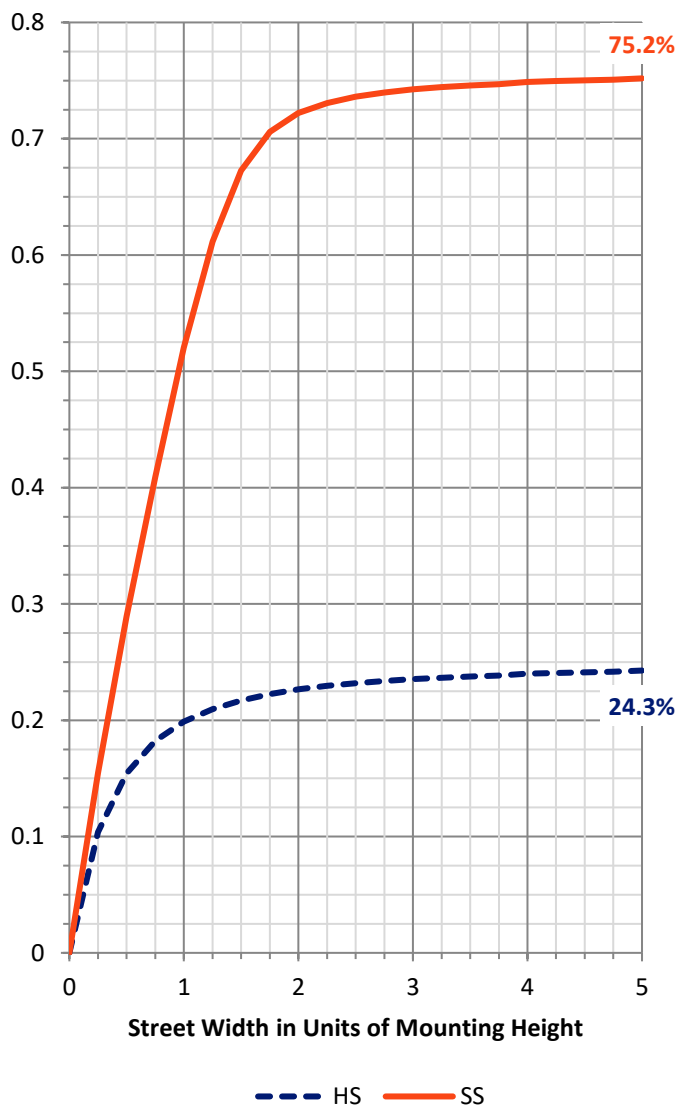
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9528.9   | 0.0    | 9528.9  |
|                    | % Fixture | 24.7     | 0.0    | 24.7    |
| <b>Street Side</b> | Lumens    | 29124.1  | 0.0    | 29124.1 |
|                    | % Fixture | 75.3     | 0.0    | 75.3    |
| <b>Total</b>       | Lumens    | 38653.0  | 0.0    | 38653.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 535.1   | 1.4       |
| 10°-20°   | 1537.3  | 4.0       |
| 20°-30°   | 2571.7  | 6.7       |
| 30°-40°   | 4017.7  | 10.4      |
| 40°-50°   | 6398.6  | 16.6      |
| 50°-60°   | 8904.5  | 23.0      |
| 60°-70°   | 9314.5  | 24.1      |
| 70°-80°   | 4868.2  | 12.6      |
| 80°-90°   | 505.5   | 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°    | 38653.0 | 100.0     |
| 0°-180°   | 38653.0 | 100.0     |

**Coefficient of Utilization**



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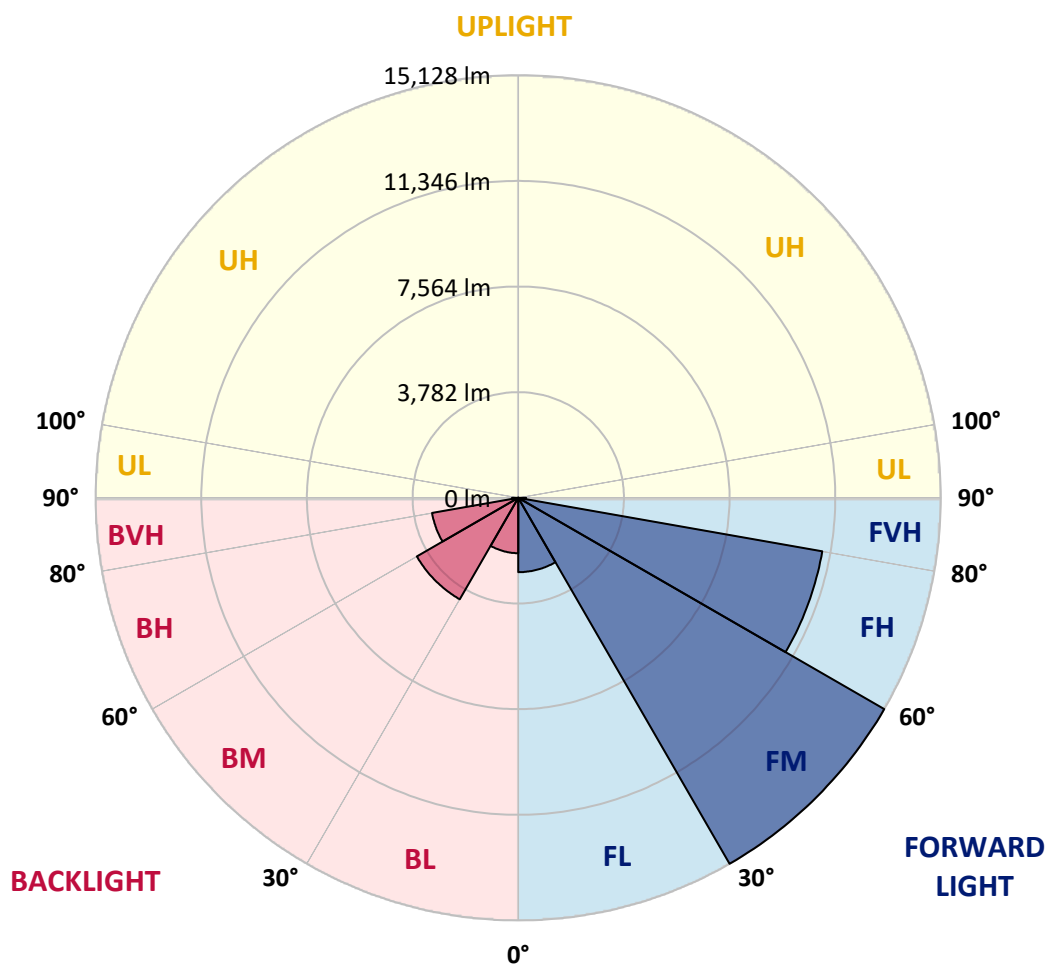
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2661.7  | 6.9       |                         |      |          |
| FM   | (30°-60°)   | 15128.4 | 39.1      |                         |      |          |
| FH   | (60°-80°)   | 11051.0 | 28.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 283.0   | 0.7       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1982.4  | 5.1       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 4192.3  | 10.8      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 3131.7  | 8.1       | B4/5000                 |      | G4/5000  |
| BVH  | (80°-90°)   | 222.5   | 0.6       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B4-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 82°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5667.0  | 5667.0  | 5667.0  | 5667.0  | 5667.0  | 5667.0  | 5667.0  | 5667.0  | 5667.0  | 5667.0  |
| 2.5°  | 5802.4  | 5835.2  | 5824.9  | 5814.7  | 5814.7  | 5800.3  | 5798.3  | 5777.8  | 5761.4  | 5734.7  |
| 5°    | 5876.2  | 5911.1  | 5907.0  | 5915.2  | 5941.9  | 5948.0  | 5954.2  | 5941.9  | 5909.0  | 5876.2  |
| 7.5°  | 5810.6  | 5849.6  | 5861.9  | 5911.1  | 5993.1  | 6067.0  | 6122.3  | 6144.9  | 6114.1  | 6067.0  |
| 10°   | 5589.1  | 5632.1  | 5675.2  | 5792.1  | 5937.7  | 6112.1  | 6259.8  | 6348.0  | 6341.8  | 6296.7  |
| 12.5° | 5139.9  | 5185.0  | 5277.3  | 5505.0  | 5771.6  | 6079.3  | 6354.1  | 6538.7  | 6602.3  | 6569.5  |
| 15°   | 4781.0  | 4819.9  | 4889.7  | 5123.5  | 5470.1  | 5937.7  | 6389.0  | 6747.9  | 6909.9  | 6891.5  |
| 17.5° | 4770.7  | 4787.1  | 4830.2  | 4940.9  | 5207.6  | 5716.2  | 6352.1  | 6953.0  | 7262.7  | 7260.7  |
| 20°   | 4951.2  | 4957.4  | 4982.0  | 5004.5  | 5156.3  | 5548.1  | 6257.7  | 7123.2  | 7658.6  | 7658.6  |
| 22.5° | 5201.4  | 5197.3  | 5221.9  | 5201.4  | 5275.3  | 5533.7  | 6198.2  | 7273.0  | 8099.5  | 8132.4  |
| 25°   | 5576.8  | 5556.3  | 5550.1  | 5502.9  | 5517.3  | 5667.0  | 6263.9  | 7443.2  | 8622.6  | 8690.2  |
| 27.5° | 6077.2  | 6044.4  | 6021.8  | 5913.1  | 5876.2  | 5941.9  | 6464.9  | 7648.3  | 9205.1  | 9322.0  |
| 30°   | 6729.4  | 6670.0  | 6637.2  | 6448.5  | 6315.1  | 6325.4  | 6768.4  | 7921.1  | 9814.2  | 10002.9 |
| 32.5° | 7619.6  | 7527.3  | 7439.1  | 7129.4  | 6885.3  | 6805.3  | 7160.2  | 8298.5  | 10474.6 | 10776.1 |
| 35°   | 8616.4  | 8542.6  | 8448.2  | 7970.3  | 7595.0  | 7410.4  | 7689.3  | 8825.6  | 11247.9 | 11725.8 |
| 37.5° | 9576.3  | 9512.7  | 9557.8  | 8913.8  | 8429.8  | 8161.1  | 8382.6  | 9533.2  | 12201.6 | 12907.2 |
| 40°   | 10569.0 | 10519.8 | 10525.9 | 9910.6  | 9346.6  | 9045.1  | 9223.5  | 10421.3 | 13294.8 | 14312.1 |
| 42.5° | 11647.8 | 11610.9 | 11487.9 | 10942.3 | 10308.5 | 10027.5 | 10191.6 | 11446.8 | 14468.0 | 15911.9 |
| 45°   | 12855.9 | 12833.3 | 12718.5 | 12092.9 | 11366.8 | 11051.0 | 11272.5 | 12579.0 | 15647.4 | 17417.4 |
| 47.5° | 13899.9 | 13918.3 | 13904.0 | 13376.9 | 12624.1 | 12160.6 | 12425.2 | 13760.4 | 16744.7 | 18832.6 |
| 50°   | 14402.4 | 14498.8 | 14640.3 | 14476.2 | 14008.6 | 13536.8 | 13588.1 | 14900.8 | 17790.7 | 20159.6 |
| 52.5° | 14139.8 | 14322.4 | 14708.0 | 14970.5 | 15151.0 | 15052.6 | 14915.1 | 16033.0 | 18775.2 | 21357.4 |
| 55°   | 13161.5 | 13417.9 | 14057.8 | 14691.6 | 15612.5 | 16328.3 | 16508.8 | 17288.2 | 19735.1 | 22411.7 |
| 57.5° | 11379.1 | 11795.5 | 12369.8 | 13651.7 | 15202.3 | 16945.7 | 18367.0 | 19029.5 | 20752.4 | 23537.7 |
| 60°   | 8323.1  | 8881.0  | 9594.7  | 11502.2 | 13766.6 | 16615.4 | 19948.4 | 21704.1 | 22198.4 | 24996.0 |
| 62.5° | 5326.5  | 5671.1  | 6327.4  | 8124.2  | 10726.9 | 14923.3 | 20432.4 | 25047.3 | 24649.4 | 27387.5 |
| 65°   | 3646.7  | 3868.3  | 4469.2  | 5478.3  | 6934.6  | 11108.4 | 19136.2 | 27553.6 | 28542.2 | 31177.8 |
| 67.5° | 2649.9  | 2818.1  | 3330.9  | 4214.9  | 4518.4  | 6573.6  | 14849.5 | 27438.8 | 32326.4 | 35083.0 |
| 70°   | 1932.1  | 2051.0  | 2481.8  | 3330.9  | 3476.5  | 3657.0  | 8995.8  | 23324.4 | 32244.3 | 36120.8 |
| 72.5° | 1431.6  | 1513.7  | 1802.9  | 2584.3  | 2814.0  | 2469.4  | 4452.8  | 16951.8 | 27707.4 | 32671.0 |
| 75°   | 1035.8  | 1097.3  | 1310.6  | 1977.2  | 2252.0  | 1880.8  | 2221.3  | 9906.5  | 19326.9 | 22981.9 |
| 77.5° | 791.7   | 838.9   | 978.3   | 1448.0  | 1802.9  | 1411.1  | 1378.3  | 4557.4  | 9164.0  | 9209.2  |
| 80°   | 635.8   | 666.6   | 742.5   | 1019.4  | 1382.4  | 1056.3  | 898.4   | 1839.8  | 2896.1  | 2451.0  |
| 82.5° | 467.6   | 518.9   | 627.6   | 715.8   | 988.6   | 728.1   | 547.6   | 929.1   | 1101.4  | 947.6   |
| 85°   | 266.6   | 301.5   | 379.4   | 512.8   | 631.7   | 445.1   | 313.8   | 412.3   | 512.8   | 420.5   |
| 87.5° | 94.3    | 123.1   | 133.3   | 201.0   | 274.8   | 184.6   | 121.0   | 119.0   | 168.2   | 125.1   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5667.0  | 0°    | 5667.0  | 5667.0  | 5667.0 | 5667.0 | 5667.0 | 5667.0 | 5667.0 | 5667.0 | 5667.0 | 5667.0 |
| 5728.5  | 2.5°  | 5708.0  | 5697.8  | 5656.8 | 5601.4 | 5544.0 | 5488.6 | 5470.1 | 5431.1 | 5404.5 | 5390.1 |
| 5861.9  | 5°    | 5822.9  | 5790.1  | 5693.7 | 5570.6 | 5441.4 | 5301.9 | 5203.5 | 5113.2 | 5047.6 | 4986.1 |
| 6044.4  | 7.5°  | 5987.0  | 5929.5  | 5763.4 | 5548.1 | 5318.3 | 5086.6 | 4914.3 | 4783.0 | 4694.8 | 4637.4 |
| 6257.7  | 10°   | 6177.7  | 6089.5  | 5835.2 | 5513.2 | 5158.4 | 4826.1 | 4623.0 | 4510.2 | 4454.9 | 4424.1 |
| 6501.8  | 12.5° | 6397.2  | 6272.1  | 5909.0 | 5433.2 | 4914.3 | 4534.8 | 4395.4 | 4362.6 | 4364.6 | 4366.7 |
| 6809.4  | 15°   | 6667.9  | 6493.6  | 5968.5 | 5258.9 | 4596.4 | 4311.3 | 4286.7 | 4340.0 | 4395.4 | 4422.0 |
| 7158.1  | 17.5° | 6973.5  | 6727.4  | 5978.8 | 4971.7 | 4284.6 | 4167.7 | 4245.6 | 4360.5 | 4444.6 | 4481.5 |
| 7547.8  | 20°   | 7301.7  | 6965.3  | 5904.9 | 4565.6 | 4028.2 | 4050.8 | 4190.3 | 4337.9 | 4430.2 | 4477.4 |
| 7992.9  | 22.5° | 7677.0  | 7219.6  | 5728.5 | 4139.0 | 3819.0 | 3923.6 | 4087.7 | 4231.3 | 4327.7 | 4374.9 |
| 8515.9  | 25°   | 8105.7  | 7504.7  | 5451.7 | 3780.1 | 3638.5 | 3780.1 | 3944.1 | 4063.1 | 4141.0 | 4184.1 |
| 9100.4  | 27.5° | 8581.5  | 7802.1  | 5082.5 | 3495.0 | 3480.6 | 3632.4 | 3767.8 | 3860.1 | 3901.1 | 3933.9 |
| 9721.9  | 30°   | 9059.4  | 8072.9  | 4635.3 | 3279.6 | 3343.2 | 3486.8 | 3583.2 | 3624.2 | 3636.5 | 3642.6 |
| 10415.2 | 32.5° | 9576.3  | 8306.7  | 4165.7 | 3101.2 | 3211.9 | 3345.2 | 3402.7 | 3421.1 | 3363.7 | 3324.7 |
| 11256.1 | 35°   | 10201.9 | 8556.9  | 3706.2 | 2959.6 | 3082.7 | 3197.6 | 3216.0 | 3199.6 | 3131.9 | 3051.9 |
| 12310.3 | 37.5° | 10975.1 | 8868.7  | 3339.1 | 2859.1 | 2961.7 | 3037.6 | 3015.0 | 3010.9 | 3017.1 | 2922.7 |
| 13577.9 | 40°   | 11922.7 | 9274.8  | 3070.4 | 2781.2 | 2863.2 | 2879.7 | 2816.1 | 2850.9 | 2881.7 | 2738.1 |
| 14968.5 | 42.5° | 12974.9 | 9765.0  | 2900.2 | 2727.9 | 2781.2 | 2742.2 | 2643.8 | 2682.8 | 2678.7 | 2490.0 |
| 16365.2 | 45°   | 14047.5 | 10298.3 | 2840.7 | 2688.9 | 2705.3 | 2627.4 | 2518.7 | 2528.9 | 2442.8 | 2272.5 |
| 17704.5 | 47.5° | 15114.1 | 10870.5 | 2877.6 | 2656.1 | 2611.0 | 2522.8 | 2438.7 | 2393.6 | 2266.4 | 2139.2 |
| 18988.5 | 50°   | 16160.1 | 11471.4 | 3013.0 | 2590.5 | 2481.8 | 2430.5 | 2368.9 | 2289.0 | 2153.6 | 2044.9 |
| 20202.7 | 52.5° | 17130.3 | 12076.5 | 3164.7 | 2481.8 | 2319.7 | 2350.5 | 2311.5 | 2219.2 | 2085.9 | 1975.1 |
| 21351.3 | 55°   | 18049.1 | 12681.6 | 3224.2 | 2332.0 | 2167.9 | 2280.8 | 2258.2 | 2088.0 | 1928.0 | 1837.7 |
| 22553.2 | 57.5° | 19050.0 | 13409.7 | 3158.6 | 2141.3 | 2044.9 | 2200.8 | 2114.6 | 1925.9 | 1833.6 | 1765.9 |
| 24118.1 | 60°   | 20436.5 | 14552.1 | 3017.1 | 1905.4 | 1928.0 | 2081.8 | 1934.1 | 1856.2 | 1755.7 | 1679.8 |
| 26464.5 | 62.5° | 22739.8 | 16683.1 | 2789.4 | 1671.6 | 1790.6 | 1905.4 | 1848.0 | 1770.0 | 1667.5 | 1593.7 |
| 30476.3 | 65°   | 26144.6 | 19644.8 | 2360.7 | 1489.1 | 1636.7 | 1733.1 | 1755.7 | 1677.7 | 1571.1 | 1493.2 |
| 33991.8 | 67.5° | 29016.0 | 21503.1 | 1786.5 | 1337.3 | 1478.8 | 1593.7 | 1657.2 | 1581.3 | 1468.5 | 1392.7 |
| 34814.3 | 70°   | 28858.1 | 20153.5 | 1363.9 | 1187.5 | 1339.3 | 1456.2 | 1538.3 | 1478.8 | 1357.8 | 1286.0 |
| 31622.9 | 72.5° | 25631.8 | 16859.5 | 1103.5 | 1035.8 | 1197.8 | 1312.7 | 1411.1 | 1366.0 | 1242.9 | 1173.2 |
| 23166.5 | 75°   | 18830.6 | 11967.8 | 881.9  | 881.9  | 1021.4 | 1162.9 | 1271.6 | 1242.9 | 1130.1 | 1080.9 |
| 9726.0  | 77.5° | 7937.5  | 5020.9  | 691.2  | 732.2  | 849.1  | 998.9  | 1134.2 | 1144.5 | 1046.0 | 1107.6 |
| 2572.0  | 80°   | 2110.5  | 1384.4  | 527.1  | 576.3  | 666.6  | 824.5  | 986.5  | 982.4  | 875.8  | 818.4  |
| 955.8   | 82.5° | 804.0   | 545.6   | 375.3  | 406.1  | 482.0  | 631.7  | 781.4  | 806.1  | 699.4  | 605.1  |
| 375.3   | 85°   | 309.7   | 233.8   | 231.8  | 244.1  | 281.0  | 418.4  | 590.7  | 611.2  | 527.1  | 447.1  |
| 104.6   | 87.5° | 80.0    | 69.7    | 86.1   | 82.0   | 129.2  | 223.6  | 338.4  | 350.7  | 322.0  | 186.6  |
| 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°   |
|--------|
| 5667.0 |
| 5406.5 |
| 5010.7 |
| 4649.7 |
| 4432.3 |
| 4370.8 |
| 4420.0 |
| 4489.7 |
| 4489.7 |
| 4387.2 |
| 4196.4 |
| 3946.2 |
| 3657.0 |
| 3337.0 |
| 3056.0 |
| 2928.9 |
| 2742.2 |
| 2487.9 |
| 2278.7 |
| 2139.2 |
| 2036.7 |
| 1977.2 |
| 1829.5 |
| 1759.8 |
| 1675.7 |
| 1593.7 |
| 1497.3 |
| 1394.7 |
| 1292.2 |
| 1173.2 |
| 1066.5 |
| 1005.0 |
| 760.9  |
| 605.1  |
| 461.5  |
| 266.6  |
| 0.0    |