

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: P951144

Luminaire Tested: **GLAN-SB5B-850-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951144  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB5B-850-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27713 lumens  
Efficiency: N/A  
Efficacy: 151.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

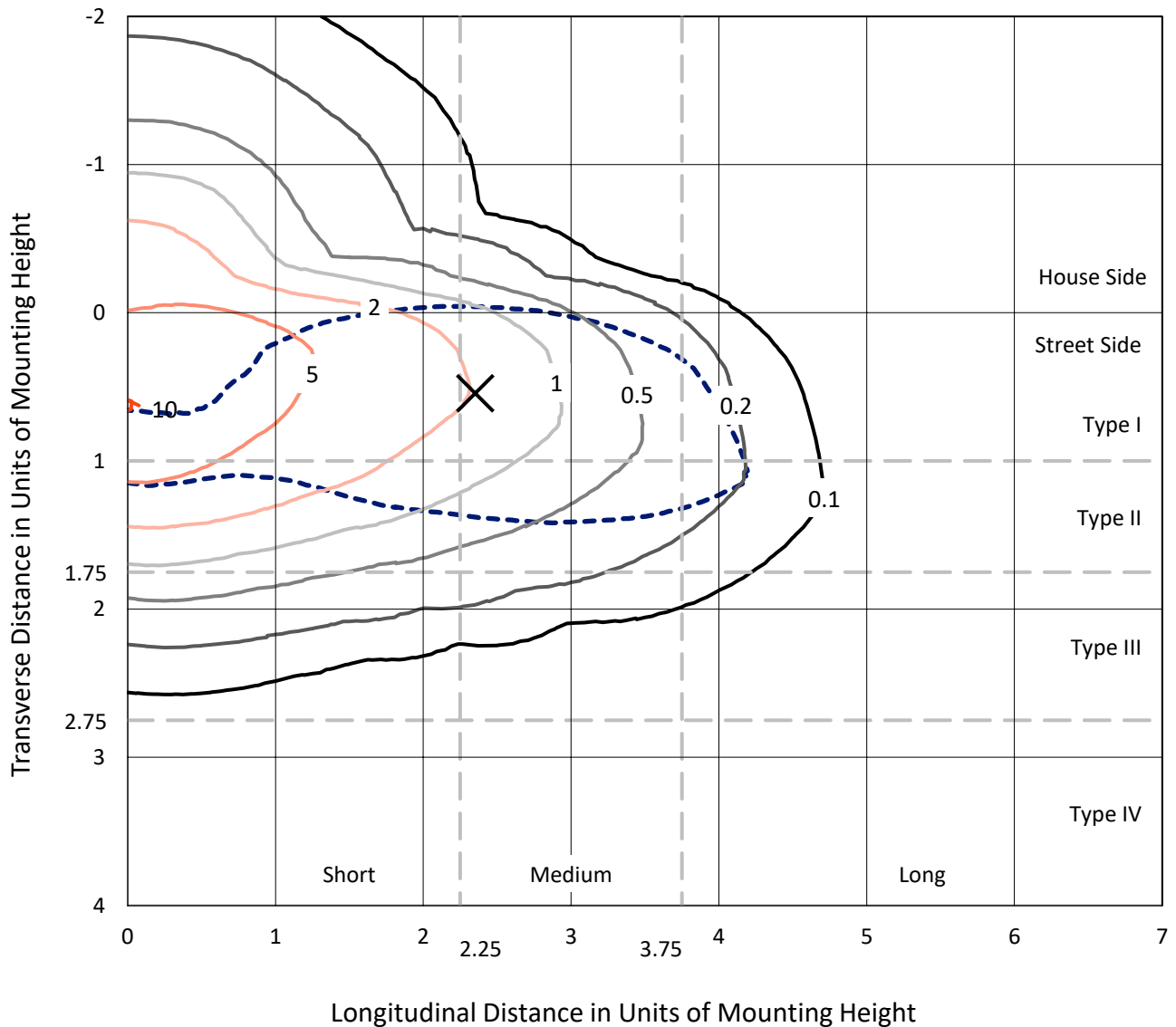
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

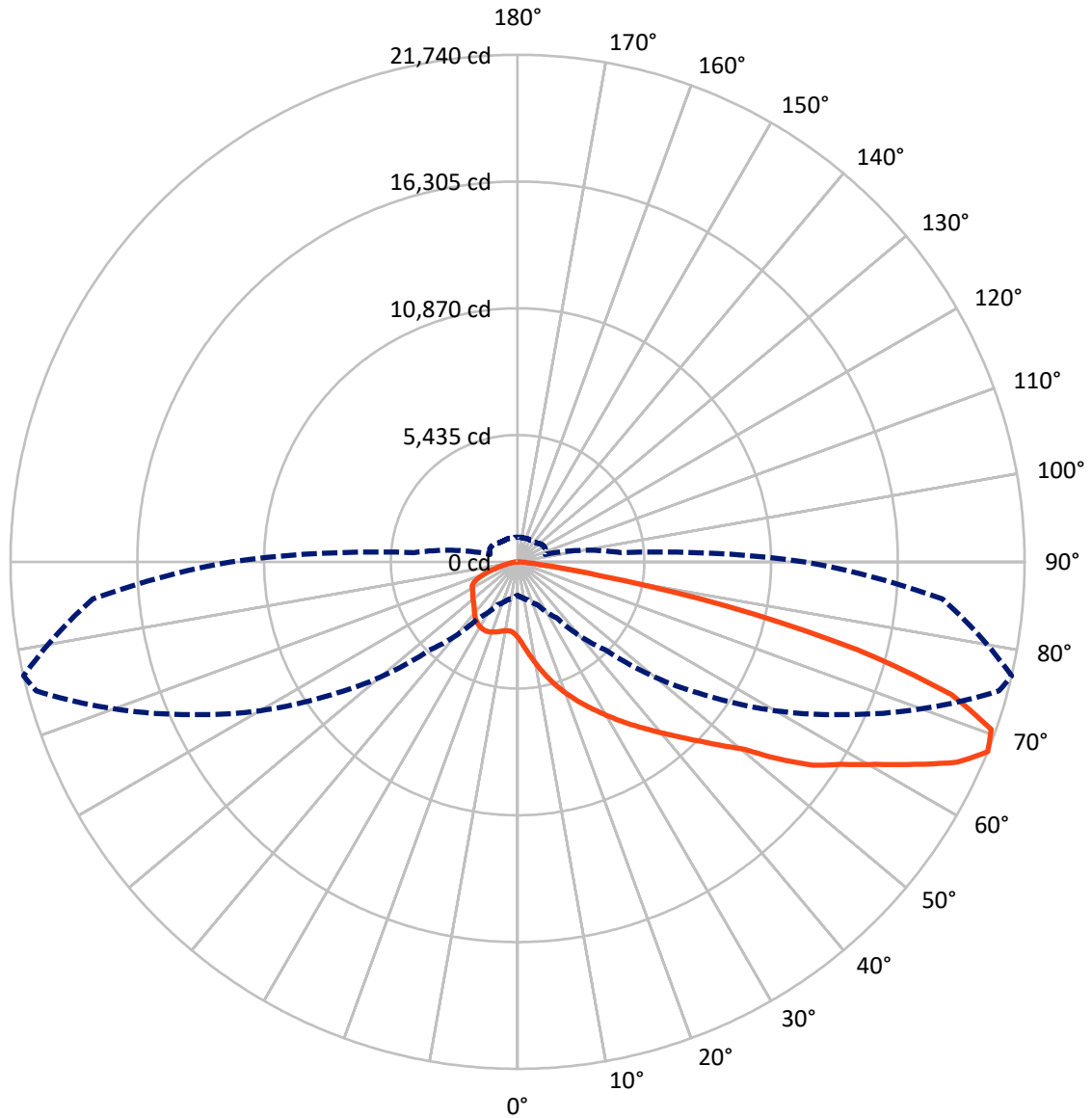
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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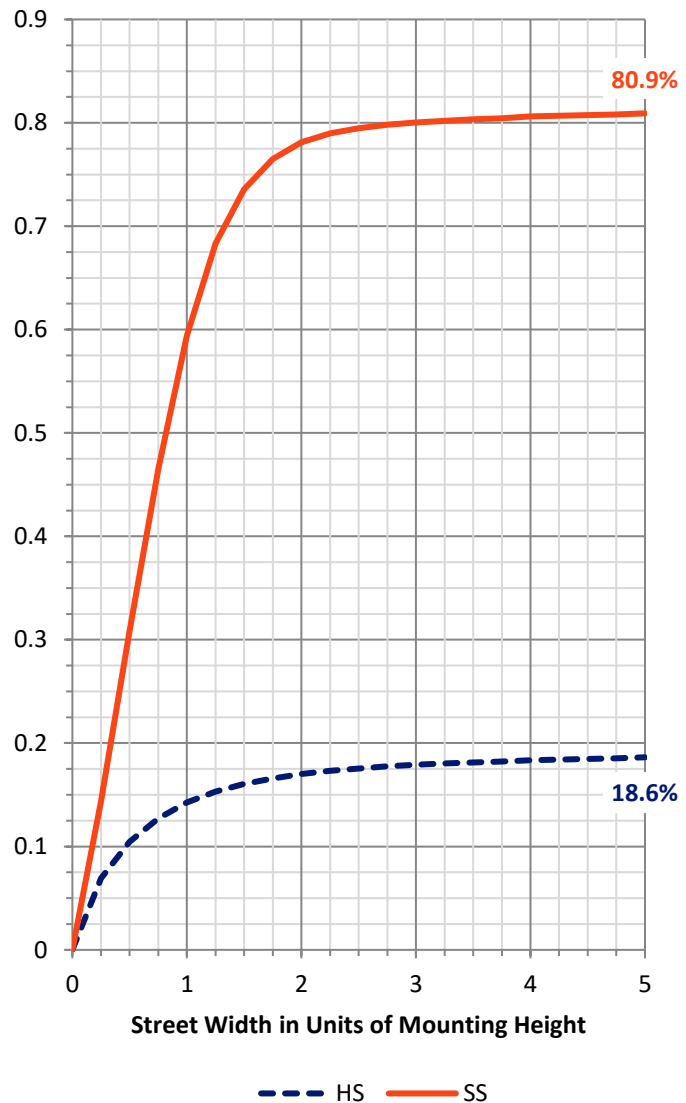
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5242.2   | 0.0    | 5242.2  |
|                    | % Fixture | 18.9     | 0.0    | 18.9    |
| <b>Street Side</b> | Lumens    | 22470.8  | 0.0    | 22470.8 |
|                    | % Fixture | 81.1     | 0.0    | 81.1    |
| <b>Total</b>       | Lumens    | 27713.0  | 0.0    | 27713.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 348.5   | 1.3       |
| 10°-20°   | 1252.1  | 4.5       |
| 20°-30°   | 2364.1  | 8.5       |
| 30°-40°   | 3808.6  | 13.7      |
| 40°-50°   | 5209.4  | 18.8      |
| 50°-60°   | 5876.3  | 21.2      |
| 60°-70°   | 5484.8  | 19.8      |
| 70°-80°   | 3006.6  | 10.8      |
| 80°-90°   | 362.7   | 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°    | 27713.0 | 100.0     |
| 0°-180°   | 27713.0 | 100.0     |

**Coefficient of Utilization**

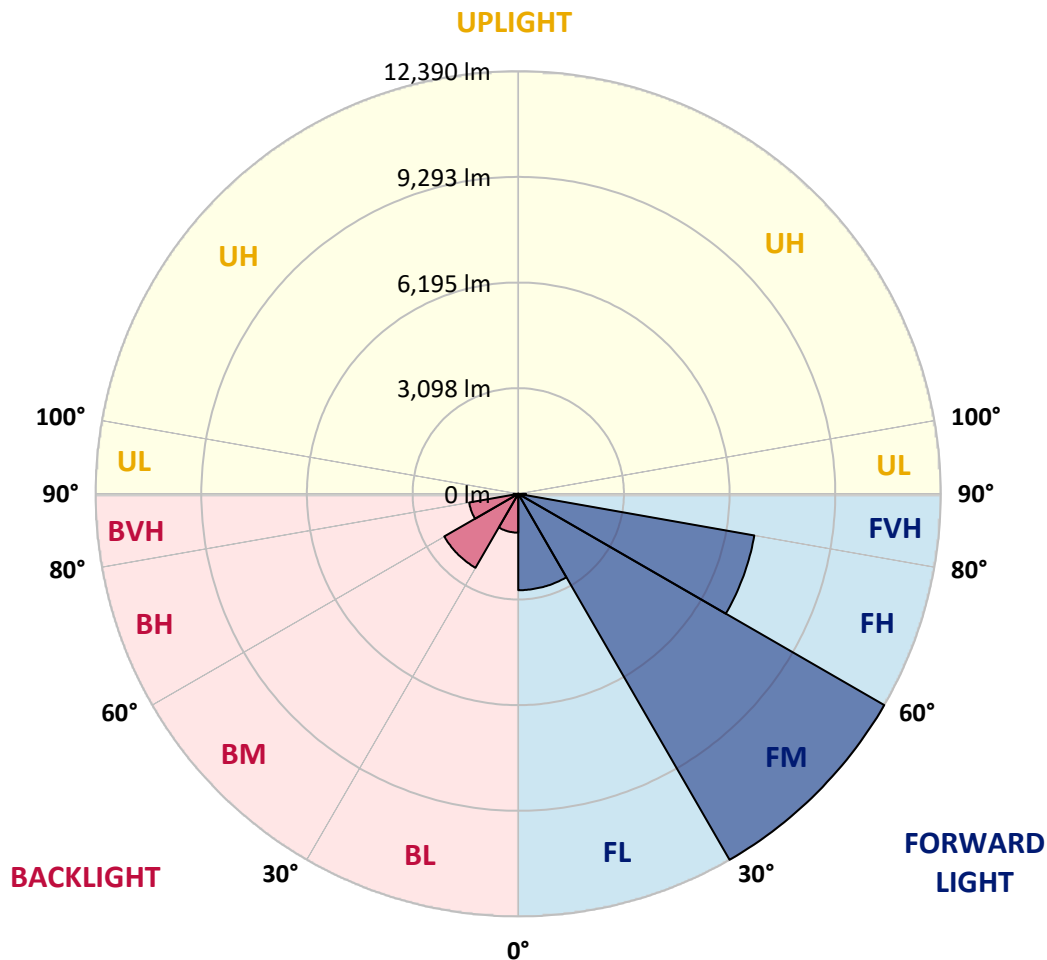


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2825.0  | 10.2      |                         |      |         |
| FM (30°-60°)   | 12390.2 | 44.7      |                         |      |         |
| FH (60°-80°)   | 7028.8  | 25.4      |                         |      | G3/7500 |
| FVH (80°-90°)  | 226.8   | 0.8       |                         |      | G3/500  |
| BL (0°-30°)    | 1139.8  | 4.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 2504.1  | 9.0       | B3/5000                 |      |         |
| BH (60°-80°)   | 1462.5  | 5.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 135.9   | 0.5       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3251.6  | 3251.6  | 3251.6  | 3251.6  | 3251.6  | 3251.6  | 3251.6  | 3251.6  | 3251.6  | 3251.6  |
| 2.5°  | 4071.3  | 4099.9  | 4064.1  | 4064.1  | 3944.0  | 3881.0  | 3760.9  | 3669.3  | 3504.8  | 3476.2  |
| 5°    | 4812.3  | 4848.1  | 4798.0  | 4776.5  | 4634.9  | 4504.7  | 4303.0  | 4104.2  | 3810.9  | 3780.9  |
| 7.5°  | 5385.9  | 5431.7  | 5387.4  | 5364.5  | 5238.6  | 5092.7  | 4856.7  | 4579.1  | 4165.7  | 4107.1  |
| 10°   | 5853.7  | 5860.9  | 5846.6  | 5855.2  | 5756.5  | 5636.3  | 5394.5  | 5071.2  | 4554.8  | 4474.7  |
| 12.5° | 6118.4  | 6151.3  | 6179.9  | 6231.4  | 6214.2  | 6139.8  | 5922.4  | 5536.2  | 4966.8  | 4863.8  |
| 15°   | 6242.8  | 6300.1  | 6364.4  | 6483.2  | 6579.0  | 6597.6  | 6431.7  | 6035.4  | 5385.9  | 5261.5  |
| 17.5° | 6287.2  | 6341.5  | 6443.1  | 6614.8  | 6820.8  | 6959.5  | 6885.1  | 6520.4  | 5800.8  | 5657.7  |
| 20°   | 6511.8  | 6527.5  | 6589.0  | 6752.1  | 6975.3  | 7205.6  | 7261.4  | 6986.7  | 6211.4  | 6049.7  |
| 22.5° | 6992.4  | 6961.0  | 6978.1  | 7052.5  | 7212.7  | 7435.9  | 7563.2  | 7398.7  | 6633.4  | 6447.4  |
| 25°   | 7786.4  | 7694.8  | 7603.3  | 7517.4  | 7599.0  | 7724.9  | 7869.3  | 7810.7  | 7075.4  | 6839.4  |
| 27.5° | 8789.2  | 8677.6  | 8475.9  | 8194.1  | 8095.4  | 8139.7  | 8204.1  | 8192.6  | 7484.5  | 7245.6  |
| 30°   | 9776.2  | 9646.1  | 9405.7  | 8998.0  | 8737.7  | 8620.4  | 8571.7  | 8538.8  | 7929.4  | 7674.8  |
| 32.5° | 10564.5 | 10461.5 | 10225.4 | 9769.1  | 9391.4  | 9191.2  | 9029.5  | 8912.2  | 8394.4  | 8139.7  |
| 35°   | 11254.0 | 11158.1 | 10887.8 | 10389.9 | 9979.4  | 9766.2  | 9554.5  | 9304.2  | 8877.9  | 8620.4  |
| 37.5° | 11883.4 | 11787.6 | 11417.1 | 10899.2 | 10485.8 | 10338.4 | 10149.6 | 9724.7  | 9362.8  | 9119.6  |
| 40°   | 12281.1 | 12259.6 | 11913.5 | 11326.9 | 10897.8 | 10824.8 | 10761.9 | 10212.6 | 9900.7  | 9674.7  |
| 42.5° | 12382.7 | 12429.9 | 12155.2 | 11673.1 | 11264.0 | 11205.3 | 11352.7 | 10764.7 | 10504.4 | 10288.4 |
| 45°   | 12138.1 | 12274.0 | 12093.7 | 11766.1 | 11524.4 | 11492.9 | 11876.3 | 11368.4 | 11172.4 | 10975.0 |
| 47.5° | 11518.6 | 11748.9 | 11674.6 | 11628.8 | 11594.4 | 11730.4 | 12336.9 | 12009.3 | 11929.2 | 11757.5 |
| 50°   | 10268.3 | 10704.7 | 10834.8 | 11123.8 | 11455.7 | 11914.9 | 12756.0 | 12708.8 | 12813.3 | 12640.2 |
| 52.5° | 8106.8  | 8707.6  | 9463.0  | 10186.8 | 11029.4 | 11853.4 | 13216.7 | 13713.1 | 14153.7 | 14059.3 |
| 55°   | 6692.0  | 6962.4  | 7543.2  | 8870.7  | 10202.5 | 11594.4 | 13424.1 | 14524.2 | 15484.1 | 15399.7 |
| 57.5° | 5604.8  | 5846.6  | 6204.2  | 7312.9  | 8952.3  | 11006.5 | 13552.8 | 15019.1 | 16395.3 | 16386.7 |
| 60°   | 4438.9  | 4695.0  | 5061.2  | 5846.6  | 7491.7  | 9990.8  | 13524.2 | 15582.8 | 17558.3 | 17629.9 |
| 62.5° | 3122.8  | 3404.7  | 3810.9  | 4543.4  | 5999.6  | 8674.7  | 12940.6 | 15990.5 | 18927.3 | 19121.9 |
| 65°   | 2052.8  | 2238.8  | 2544.9  | 3177.2  | 4470.4  | 6982.4  | 11826.2 | 16043.4 | 20392.2 | 20721.2 |
| 67.5° | 1439.1  | 1510.6  | 1690.9  | 2034.2  | 2946.9  | 5354.5  | 10050.9 | 15495.5 | 21369.3 | 21739.8 |
| 70°   | 1123.0  | 1158.7  | 1250.3  | 1387.6  | 1851.1  | 3600.6  | 7702.0  | 14070.7 | 21160.4 | 21546.7 |
| 72.5° | 969.9   | 1004.2  | 1038.6  | 1055.7  | 1241.7  | 2223.0  | 5217.1  | 11764.7 | 19193.4 | 19455.2 |
| 75°   | 879.8   | 888.4   | 917.0   | 911.2   | 947.0   | 1442.0  | 3011.3  | 8571.7  | 15143.6 | 15053.5 |
| 77.5° | 739.6   | 751.0   | 798.2   | 791.1   | 841.2   | 985.6   | 1563.6  | 5531.9  | 9817.7  | 9205.5  |
| 80°   | 626.6   | 632.3   | 683.8   | 675.2   | 731.0   | 713.8   | 798.2   | 2819.6  | 4164.3  | 3527.7  |
| 82.5° | 217.4   | 268.9   | 522.1   | 537.9   | 557.9   | 432.0   | 460.6   | 1150.1  | 1271.7  | 974.2   |
| 85°   | 105.9   | 113.0   | 266.1   | 377.7   | 376.2   | 217.4   | 224.6   | 410.6   | 400.5   | 314.7   |
| 87.5° | 17.2    | 21.5    | 31.5    | 147.3   | 117.3   | 57.2    | 77.2    | 80.1    | 83.0    | 71.5    |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3251.6  | 0°    | 3251.6  | 3251.6 | 3251.6 | 3251.6 | 3251.6 | 3251.6 | 3251.6 | 3251.6 | 3251.6 | 3251.6 |
| 3367.5  | 2.5°  | 3287.4  | 3215.8 | 3065.6 | 2926.9 | 2818.1 | 2713.7 | 2655.1 | 2605.0 | 2576.4 | 2570.7 |
| 3524.8  | 5°    | 3376.1  | 3228.7 | 2955.5 | 2725.2 | 2575.0 | 2463.4 | 2404.7 | 2367.5 | 2348.9 | 2337.5 |
| 3736.5  | 7.5°  | 3503.4  | 3287.4 | 2898.3 | 2636.5 | 2479.1 | 2399.0 | 2369.0 | 2363.2 | 2361.8 | 2363.2 |
| 3992.6  | 10°   | 3679.3  | 3383.2 | 2892.5 | 2615.0 | 2483.4 | 2439.1 | 2437.6 | 2439.1 | 2444.8 | 2446.2 |
| 4271.6  | 12.5° | 3869.6  | 3481.9 | 2915.4 | 2633.6 | 2537.8 | 2513.4 | 2509.2 | 2507.7 | 2512.0 | 2514.9 |
| 4553.4  | 15°   | 4077.0  | 3612.1 | 2954.0 | 2673.7 | 2597.8 | 2572.1 | 2567.8 | 2559.2 | 2557.8 | 2556.4 |
| 4849.5  | 17.5° | 4290.2  | 3740.8 | 2997.0 | 2716.6 | 2636.5 | 2600.7 | 2585.0 | 2564.9 | 2549.2 | 2544.9 |
| 5155.6  | 20°   | 4506.2  | 3868.2 | 3027.0 | 2738.0 | 2639.3 | 2589.3 | 2557.8 | 2523.5 | 2496.3 | 2480.5 |
| 5464.6  | 22.5° | 4736.5  | 4001.2 | 3045.6 | 2732.3 | 2613.6 | 2544.9 | 2487.7 | 2447.6 | 2406.2 | 2379.0 |
| 5776.5  | 25°   | 4961.1  | 4117.1 | 3044.2 | 2702.3 | 2563.5 | 2476.2 | 2403.3 | 2351.8 | 2294.6 | 2266.0 |
| 6098.4  | 27.5° | 5177.1  | 4221.5 | 3008.4 | 2649.3 | 2492.0 | 2394.7 | 2307.4 | 2245.9 | 2190.1 | 2163.0 |
| 6423.1  | 30°   | 5400.3  | 4308.8 | 2952.6 | 2572.1 | 2407.6 | 2300.3 | 2204.4 | 2151.5 | 2101.4 | 2075.7 |
| 6766.4  | 32.5° | 5622.0  | 4388.9 | 2873.9 | 2476.2 | 2310.3 | 2207.3 | 2112.9 | 2064.3 | 2034.2 | 2034.2 |
| 7135.5  | 35°   | 5856.6  | 4444.7 | 2769.5 | 2364.7 | 2207.3 | 2108.6 | 2034.2 | 2005.6 | 2002.7 | 1985.6 |
| 7526.0  | 37.5° | 6104.1  | 4480.4 | 2642.2 | 2250.2 | 2105.7 | 2012.8 | 1989.9 | 1955.5 | 1926.9 | 1889.7 |
| 7955.2  | 40°   | 6364.4  | 4516.2 | 2489.1 | 2131.5 | 1998.5 | 1947.0 | 1936.9 | 1891.2 | 1809.6 | 1718.1 |
| 8441.6  | 42.5° | 6680.6  | 4540.5 | 2330.3 | 2012.8 | 1885.4 | 1868.3 | 1882.6 | 1803.9 | 1673.7 | 1605.1 |
| 9028.1  | 45°   | 7046.8  | 4580.6 | 2184.4 | 1895.5 | 1769.6 | 1769.6 | 1829.6 | 1726.7 | 1619.4 | 1576.4 |
| 9697.6  | 47.5° | 7521.7  | 4673.5 | 2048.5 | 1766.7 | 1662.3 | 1690.9 | 1712.3 | 1633.7 | 1573.6 | 1520.7 |
| 10513.0 | 50°   | 8208.4  | 4896.7 | 1908.3 | 1636.5 | 1580.7 | 1638.0 | 1607.9 | 1562.1 | 1492.0 | 1449.1 |
| 11809.0 | 52.5° | 9061.0  | 5028.3 | 1783.9 | 1519.2 | 1510.6 | 1567.9 | 1524.9 | 1482.0 | 1429.1 | 1371.9 |
| 12791.8 | 55°   | 9641.8  | 5052.6 | 1679.4 | 1433.4 | 1463.4 | 1457.7 | 1442.0 | 1403.4 | 1374.7 | 1298.9 |
| 13761.7 | 57.5° | 10291.2 | 5101.3 | 1593.6 | 1381.9 | 1433.4 | 1370.4 | 1364.7 | 1331.8 | 1294.6 | 1243.1 |
| 14944.8 | 60°   | 11068.0 | 5177.1 | 1519.2 | 1361.9 | 1407.6 | 1313.2 | 1284.6 | 1271.7 | 1234.5 | 1208.8 |
| 16368.1 | 62.5° | 11914.9 | 5245.8 | 1443.4 | 1364.7 | 1377.6 | 1257.4 | 1214.5 | 1210.2 | 1187.3 | 1178.8 |
| 17704.2 | 65°   | 12492.8 | 5058.4 | 1349.0 | 1361.9 | 1330.4 | 1200.2 | 1145.9 | 1144.4 | 1125.8 | 1123.0 |
| 18283.6 | 67.5° | 12291.1 | 4464.7 | 1221.7 | 1321.8 | 1281.8 | 1143.0 | 1082.9 | 1077.2 | 1052.9 | 1054.3 |
| 17678.5 | 70°   | 11281.2 | 3617.8 | 1045.7 | 1223.1 | 1221.7 | 1091.5 | 1017.1 | 998.5  | 965.6  | 971.3  |
| 15371.1 | 72.5° | 9387.1  | 2680.8 | 809.7  | 1058.6 | 1125.8 | 1044.3 | 941.3  | 911.2  | 869.8  | 875.5  |
| 11347.0 | 75°   | 6779.3  | 1822.5 | 589.4  | 805.4  | 979.9  | 988.5  | 866.9  | 815.4  | 765.3  | 773.9  |
| 6315.8  | 77.5° | 3469.0  | 1032.8 | 433.5  | 555.0  | 769.6  | 898.4  | 799.7  | 731.0  | 719.6  | 799.7  |
| 1821.1  | 80°   | 1131.5  | 517.9  | 300.4  | 389.1  | 505.0  | 735.3  | 701.0  | 622.3  | 619.4  | 638.0  |
| 382.0   | 82.5° | 337.6   | 218.9  | 193.1  | 256.1  | 279.0  | 563.6  | 605.1  | 470.6  | 404.8  | 426.3  |
| 127.3   | 85°   | 115.9   | 105.9  | 110.2  | 127.3  | 133.0  | 330.5  | 423.4  | 311.9  | 294.7  | 324.7  |
| 28.6    | 87.5° | 27.2    | 37.2   | 31.5   | 28.6   | 28.6   | 80.1   | 164.5  | 130.2  | 180.2  | 120.2  |
| 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°   |
|--------|
| 3251.6 |
| 2570.7 |
| 2336.1 |
| 2367.5 |
| 2447.6 |
| 2516.3 |
| 2554.9 |
| 2549.2 |
| 2486.3 |
| 2380.4 |
| 2266.0 |
| 2161.5 |
| 2074.3 |
| 2035.6 |
| 1981.3 |
| 1884.0 |
| 1705.2 |
| 1606.5 |
| 1583.6 |
| 1519.2 |
| 1444.8 |
| 1360.4 |
| 1300.4 |
| 1226.0 |
| 1216.0 |
| 1178.8 |
| 1121.5 |
| 1054.3 |
| 977.1  |
| 874.1  |
| 776.8  |
| 788.2  |
| 547.9  |
| 440.6  |
| 320.4  |
| 115.9  |
| 0.0    |

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