

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: P949684

Luminaire Tested: **GLAN-SB4B-840-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949684  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB4B-840-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21954 lumens  
Efficiency: N/A  
Efficacy: 149.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

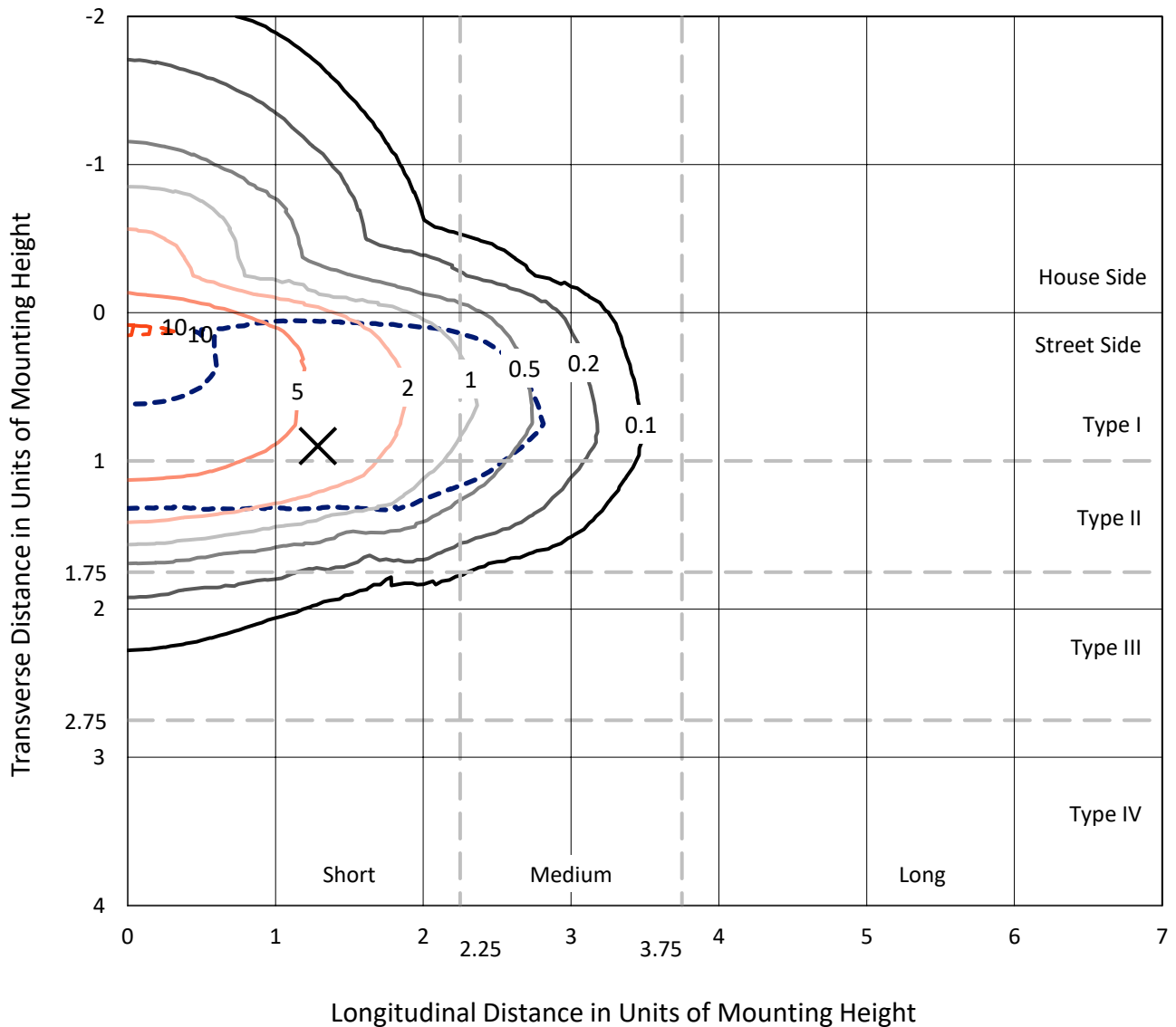
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

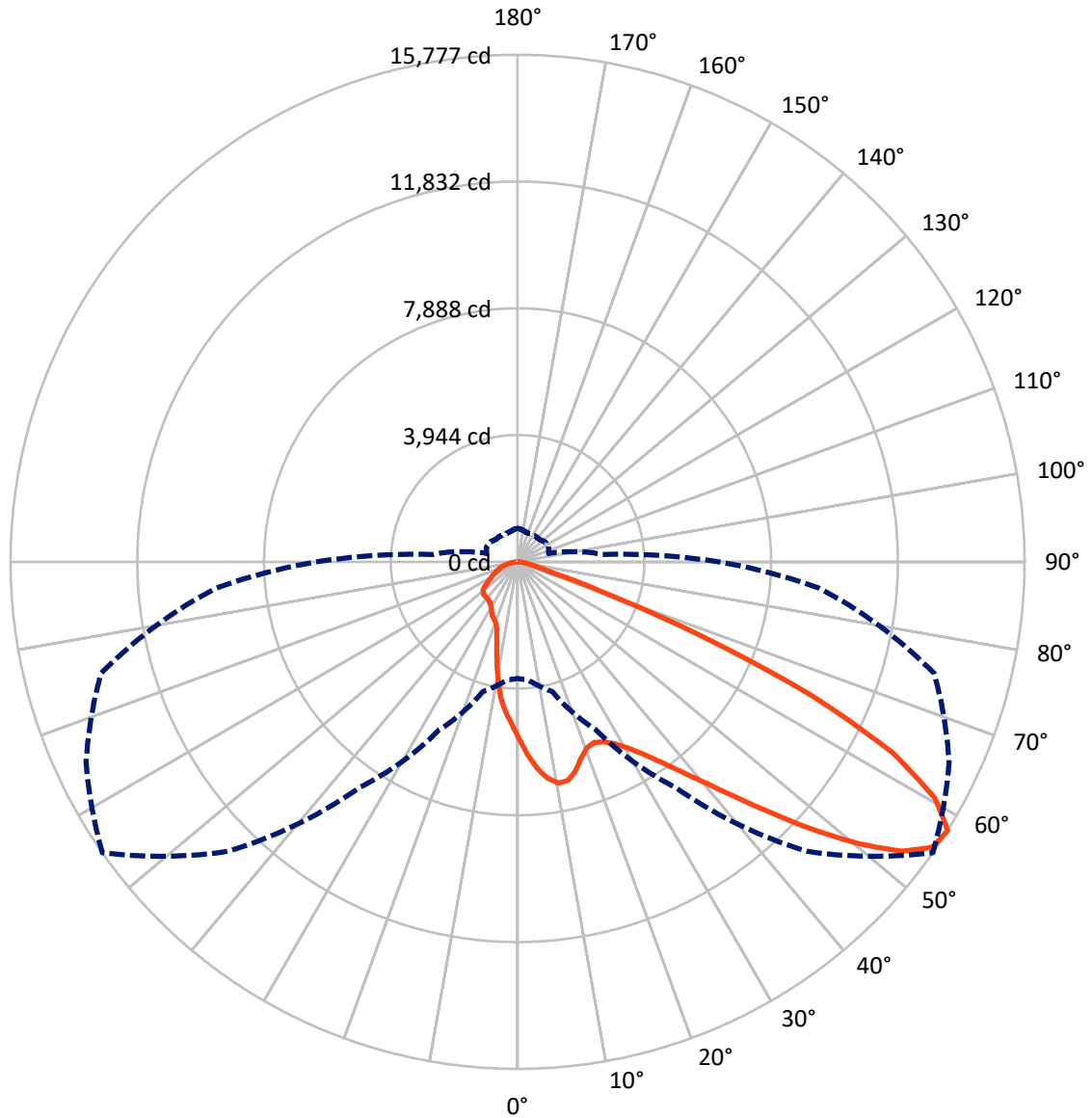
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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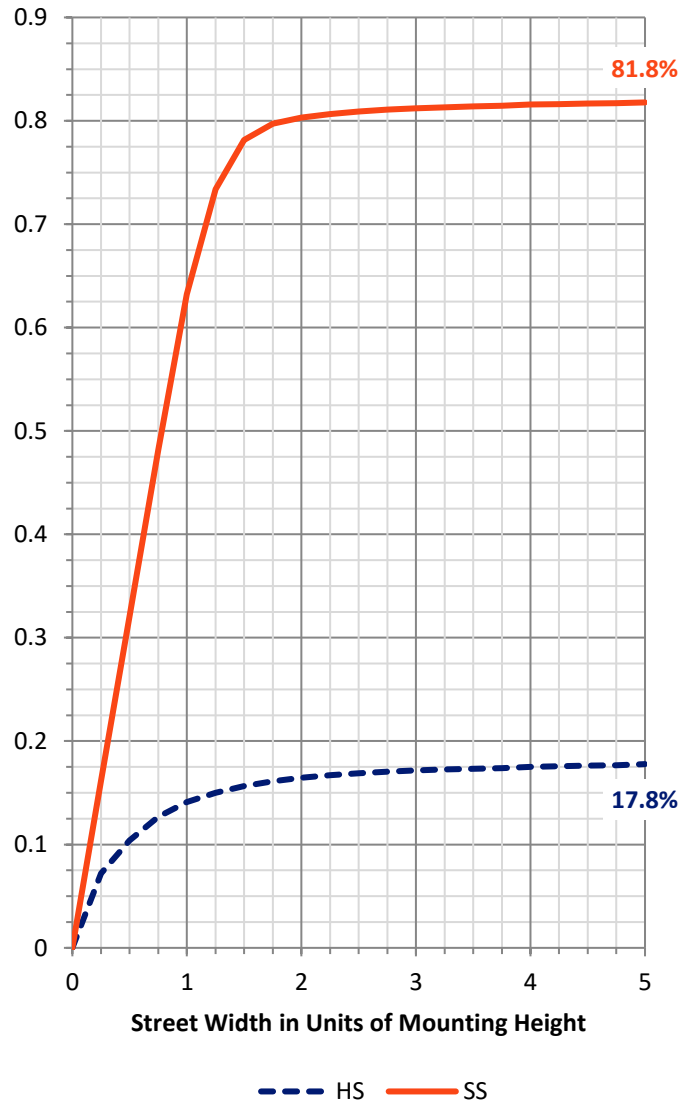
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3972.5   | 0.0    | 3972.5  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 17981.5  | 0.0    | 17981.5 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 21954.0  | 0.0    | 21954.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 510.5   | 2.3       |
| 10°-20°   | 1288.4  | 5.9       |
| 20°-30°   | 2055.9  | 9.4       |
| 30°-40°   | 3255.1  | 14.8      |
| 40°-50°   | 4982.2  | 22.7      |
| 50°-60°   | 5336.4  | 24.3      |
| 60°-70°   | 3357.2  | 15.3      |
| 70°-80°   | 992.8   | 4.5       |
| 80°-90°   | 175.5   | 0.8       |
| 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°    | 21954.0 | 100.0     |
| 0°-180°   | 21954.0 | 100.0     |

**Coefficient of Utilization**

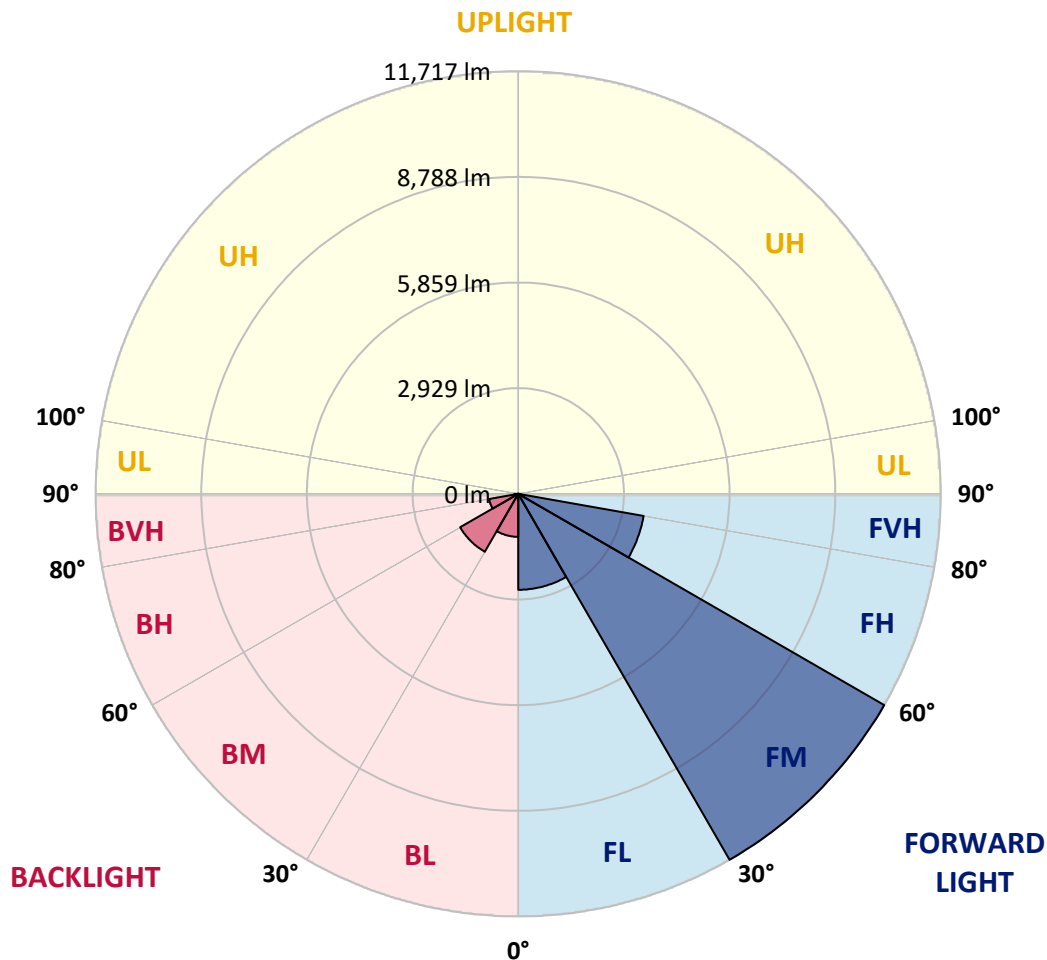


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2660.8  | 12.1      |                         |      |         |
| FM (30°-60°)   | 11717.0 | 53.4      |                         |      |         |
| FH (60°-80°)   | 3529.5  | 16.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 74.2    | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 1194.0  | 5.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 1856.7  | 8.5       | B2/2500                 |      |         |
| BH (60°-80°)   | 820.4   | 3.7       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 101.4   | 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-G2**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 5501.0  | 5501.0  | 5501.0  | 5501.0  | 5501.0  | 5501.0  | 5501.0  | 5501.0  | 5501.0  | 5501.0 |
| 2.5°  | 6311.3  | 6306.8  | 6331.7  | 6246.6  | 6188.7  | 6110.4  | 6007.1  | 5875.5  | 5733.6  | 5583.8 |
| 5°    | 6879.9  | 6840.2  | 6866.3  | 6802.7  | 6739.2  | 6621.1  | 6467.9  | 6253.4  | 5991.2  | 5692.8 |
| 7.5°  | 6790.2  | 6763.0  | 6830.0  | 6886.7  | 6934.4  | 6919.6  | 6807.3  | 6582.5  | 6244.3  | 5810.8 |
| 10°   | 6067.3  | 6036.6  | 6130.8  | 6327.2  | 6615.5  | 6866.3  | 7002.5  | 6862.9  | 6503.1  | 5940.2 |
| 12.5° | 5429.5  | 5414.7  | 5477.1  | 5636.0  | 5956.1  | 6437.3  | 6977.5  | 7108.0  | 6772.1  | 6093.4 |
| 15°   | 5157.1  | 5138.9  | 5178.6  | 5259.2  | 5463.5  | 5911.8  | 6750.5  | 7276.0  | 7036.5  | 6270.4 |
| 17.5° | 5096.9  | 5076.5  | 5093.5  | 5135.5  | 5267.2  | 5608.8  | 6407.8  | 7358.8  | 7312.3  | 6467.9 |
| 20°   | 5208.2  | 5191.1  | 5193.4  | 5191.1  | 5283.1  | 5554.3  | 6169.4  | 7327.0  | 7552.9  | 6649.5 |
| 22.5° | 5477.1  | 5448.8  | 5449.9  | 5389.7  | 5439.7  | 5649.6  | 6107.0  | 7241.9  | 7767.4  | 6808.4 |
| 25°   | 5915.2  | 5864.1  | 5874.3  | 5721.1  | 5707.5  | 5863.0  | 6204.6  | 7176.1  | 7980.8  | 6935.5 |
| 27.5° | 6514.4  | 6456.6  | 6425.9  | 6197.8  | 6088.8  | 6166.0  | 6403.2  | 7198.8  | 8182.8  | 7045.6 |
| 30°   | 7263.5  | 7193.1  | 7130.7  | 6807.3  | 6609.8  | 6581.4  | 6711.9  | 7348.6  | 8421.1  | 7161.3 |
| 32.5° | 8181.6  | 8099.9  | 7986.4  | 7557.4  | 7279.4  | 7130.7  | 7111.4  | 7615.3  | 8700.3  | 7308.9 |
| 35°   | 9274.6  | 9167.9  | 9006.7  | 8451.8  | 8099.9  | 7795.8  | 7638.0  | 8000.1  | 9082.8  | 7531.3 |
| 37.5° | 10400.4 | 10280.1 | 10132.6 | 9472.0  | 9039.6  | 8591.3  | 8280.4  | 8522.1  | 9592.3  | 7833.2 |
| 40°   | 11438.9 | 11303.8 | 11166.5 | 10578.6 | 10114.4 | 9574.2  | 9066.9  | 9182.6  | 10215.4 | 8194.1 |
| 42.5° | 12051.7 | 11951.8 | 11899.6 | 11581.9 | 11223.2 | 10675.1 | 10045.2 | 9965.7  | 10915.7 | 8609.5 |
| 45°   | 12024.5 | 11983.6 | 12144.8 | 12276.4 | 12191.3 | 11887.2 | 11191.5 | 10831.7 | 11618.2 | 8969.3 |
| 47.5° | 11382.1 | 11409.4 | 11769.1 | 12509.1 | 12834.8 | 12993.7 | 12496.6 | 11681.7 | 12228.8 | 9238.3 |
| 50°   | 9634.3  | 9657.0  | 10490.1 | 12085.8 | 13000.5 | 13896.0 | 13791.6 | 12511.4 | 12702.0 | 9402.8 |
| 52.5° | 8250.9  | 8265.6  | 8623.1  | 10830.5 | 12453.5 | 14349.9 | 14958.3 | 13293.3 | 13048.2 | 9448.2 |
| 55°   | 6214.8  | 6265.9  | 6666.5  | 8497.1  | 11030.3 | 13990.2 | 15668.7 | 14099.1 | 13267.2 | 9452.8 |
| 57.5° | 3630.6  | 3686.2  | 4181.0  | 5767.7  | 8573.2  | 12736.1 | 15776.5 | 14814.1 | 13415.9 | 9416.4 |
| 60°   | 1778.4  | 1802.3  | 2017.9  | 3031.4  | 5286.5  | 10319.8 | 14909.5 | 15160.3 | 13498.7 | 9397.1 |
| 62.5° | 1198.5  | 1195.1  | 1204.2  | 1495.8  | 2604.6  | 6630.2  | 13102.7 | 14554.2 | 13454.5 | 9323.4 |
| 65°   | 1030.5  | 1018.0  | 984.0   | 1049.8  | 1349.4  | 3032.5  | 10123.5 | 12745.2 | 13117.4 | 9138.4 |
| 67.5° | 890.9   | 892.0   | 893.2   | 872.8   | 963.5   | 1399.4  | 6186.5  | 10039.5 | 11907.6 | 8262.2 |
| 70°   | 737.7   | 747.9   | 752.5   | 752.5   | 785.4   | 918.2   | 2641.0  | 6881.0  | 9392.6  | 6478.1 |
| 72.5° | 671.9   | 650.3   | 652.6   | 641.2   | 641.2   | 699.1   | 1063.4  | 3900.7  | 5917.5  | 3644.2 |
| 75°   | 548.2   | 561.8   | 564.1   | 556.1   | 530.0   | 533.4   | 631.0   | 1636.6  | 2532.0  | 1511.7 |
| 77.5° | 473.3   | 473.3   | 477.8   | 472.1   | 451.7   | 399.5   | 421.1   | 634.4   | 861.4   | 619.7  |
| 80°   | 380.2   | 379.1   | 398.4   | 409.7   | 377.9   | 295.1   | 269.0   | 350.7   | 382.5   | 272.4  |
| 82.5° | 185.0   | 196.3   | 273.5   | 312.1   | 287.1   | 213.4   | 164.6   | 217.9   | 204.3   | 120.3  |
| 85°   | 107.8   | 102.1   | 122.6   | 173.6   | 164.6   | 118.0   | 79.4    | 113.5   | 106.7   | 61.3   |
| 87.5° | 34.0    | 31.8    | 25.0    | 59.0    | 47.7    | 32.9    | 21.6    | 32.9    | 29.5    | 13.6   |
| 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):**

| 90°    |       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5501.0 | 0°    | 5501.0 | 5501.0 | 5501.0 | 5501.0 | 5501.0 | 5501.0 | 5501.0 | 5501.0 | 5501.0 | 5501.0 |
| 5519.1 | 2.5°  | 5438.5 | 5304.6 | 5171.8 | 5050.4 | 4976.6 | 4929.0 | 4881.3 | 4828.0 | 4807.5 | 4776.9 |
| 5533.9 | 5°    | 5384.1 | 5125.3 | 4894.9 | 4696.3 | 4515.8 | 4374.0 | 4231.0 | 4115.2 | 4063.0 | 4098.2 |
| 5580.4 | 7.5°  | 5352.3 | 4977.8 | 4622.5 | 4258.2 | 3907.5 | 3627.2 | 3383.2 | 3211.8 | 3134.7 | 3153.9 |
| 5625.8 | 10°   | 5323.9 | 4810.9 | 4269.6 | 3694.2 | 3190.3 | 2843.0 | 2593.3 | 2462.8 | 2414.0 | 2424.2 |
| 5687.1 | 12.5° | 5297.8 | 4623.7 | 3844.0 | 3087.0 | 2551.3 | 2322.0 | 2250.5 | 2251.7 | 2260.8 | 2267.6 |
| 5784.7 | 15°   | 5293.3 | 4397.8 | 3368.4 | 2555.8 | 2206.3 | 2191.5 | 2268.7 | 2317.5 | 2343.6 | 2351.6 |
| 5866.4 | 17.5° | 5286.5 | 4127.7 | 2883.8 | 2193.8 | 2122.3 | 2222.2 | 2293.7 | 2325.5 | 2345.9 | 2347.0 |
| 5945.8 | 20°   | 5259.2 | 3785.0 | 2436.7 | 2021.3 | 2104.1 | 2190.4 | 2234.7 | 2259.6 | 2276.7 | 2282.3 |
| 6006.0 | 22.5° | 5175.2 | 3403.6 | 2088.3 | 1944.1 | 2031.5 | 2100.7 | 2152.9 | 2181.3 | 2191.5 | 2198.3 |
| 6017.3 | 25°   | 5024.3 | 2976.9 | 1847.7 | 1870.3 | 1930.5 | 2017.9 | 2059.9 | 2065.6 | 2062.2 | 2072.4 |
| 5989.0 | 27.5° | 4826.8 | 2519.5 | 1697.8 | 1770.5 | 1847.7 | 1922.6 | 1945.3 | 1941.8 | 1935.0 | 1946.4 |
| 5940.2 | 30°   | 4588.5 | 2108.7 | 1602.5 | 1658.1 | 1763.7 | 1831.8 | 1852.2 | 1844.2 | 1830.6 | 1843.1 |
| 5915.2 | 32.5° | 4336.5 | 1772.7 | 1524.2 | 1579.8 | 1694.4 | 1761.4 | 1781.8 | 1773.9 | 1763.7 | 1773.9 |
| 5943.6 | 35°   | 4101.6 | 1537.8 | 1451.6 | 1527.6 | 1640.0 | 1705.8 | 1731.9 | 1733.0 | 1733.0 | 1745.5 |
| 6018.5 | 37.5° | 3886.0 | 1400.5 | 1391.4 | 1494.7 | 1602.5 | 1661.5 | 1699.0 | 1701.2 | 1652.4 | 1655.8 |
| 6145.6 | 40°   | 3686.2 | 1342.6 | 1364.2 | 1473.1 | 1566.2 | 1622.9 | 1625.2 | 1498.1 | 1408.4 | 1406.2 |
| 6290.9 | 42.5° | 3522.8 | 1331.3 | 1372.1 | 1470.9 | 1540.1 | 1542.4 | 1382.3 | 1283.6 | 1258.6 | 1259.8 |
| 6424.8 | 45°   | 3369.6 | 1327.9 | 1390.3 | 1470.9 | 1501.5 | 1332.4 | 1224.6 | 1198.5 | 1200.7 | 1209.8 |
| 6484.9 | 47.5° | 3198.2 | 1314.2 | 1393.7 | 1450.4 | 1390.3 | 1184.9 | 1153.1 | 1141.7 | 1137.2 | 1139.5 |
| 6471.3 | 50°   | 3010.9 | 1265.4 | 1350.6 | 1409.6 | 1199.6 | 1121.3 | 1081.6 | 1078.2 | 1083.8 | 1087.3 |
| 6395.3 | 52.5° | 2813.5 | 1186.0 | 1276.8 | 1335.8 | 1112.2 | 1065.7 | 1021.4 | 1029.4 | 1054.3 | 1062.3 |
| 6315.8 | 55°   | 2684.1 | 1092.9 | 1179.2 | 1188.3 | 1050.9 | 1013.5 | 976.0  | 994.2  | 1040.7 | 1055.5 |
| 6268.2 | 57.5° | 2650.0 | 994.2  | 1068.0 | 1057.7 | 972.6  | 968.1  | 945.4  | 961.3  | 1020.3 | 1041.9 |
| 6265.9 | 60°   | 2639.8 | 905.7  | 959.0  | 951.1  | 896.6  | 918.2  | 912.5  | 920.4  | 940.8  | 947.7  |
| 6243.2 | 62.5° | 2560.4 | 835.3  | 861.4  | 850.1  | 828.5  | 865.9  | 879.6  | 862.5  | 878.4  | 886.4  |
| 6087.7 | 65°   | 2358.4 | 778.6  | 766.1  | 758.1  | 767.2  | 801.3  | 828.5  | 794.4  | 809.2  | 831.9  |
| 5488.5 | 67.5° | 2024.7 | 701.4  | 667.3  | 676.4  | 704.8  | 722.9  | 758.1  | 719.5  | 732.0  | 770.6  |
| 4420.5 | 70°   | 1637.7 | 603.8  | 573.1  | 599.2  | 626.5  | 663.9  | 669.6  | 643.5  | 673.0  | 716.1  |
| 2697.7 | 72.5° | 1158.8 | 505.0  | 483.5  | 536.8  | 545.9  | 594.7  | 582.2  | 569.7  | 610.6  | 625.3  |
| 1333.5 | 75°   | 803.5  | 407.4  | 395.0  | 435.8  | 468.7  | 510.7  | 501.6  | 516.4  | 602.6  | 609.5  |
| 666.2  | 77.5° | 508.4  | 316.6  | 308.7  | 334.8  | 380.2  | 426.7  | 441.5  | 609.5  | 1029.4 | 1070.2 |
| 346.2  | 80°   | 295.1  | 236.1  | 227.0  | 247.4  | 287.1  | 330.3  | 425.6  | 747.9  | 678.7  | 670.7  |
| 155.5  | 82.5° | 164.6  | 162.3  | 150.9  | 156.6  | 191.8  | 238.3  | 601.5  | 526.6  | 427.9  | 441.5  |
| 62.4   | 85°   | 77.2   | 95.3   | 81.7   | 78.3   | 107.8  | 279.2  | 401.8  | 300.8  | 199.7  | 195.2  |
| 13.6   | 87.5° | 20.4   | 18.2   | 18.2   | 20.4   | 45.4   | 240.6  | 160.0  | 128.2  | 76.0   | 73.8   |
| 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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