

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: P949663

Luminaire Tested: **GLAN-SB4B-835-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949663  
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-835-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21289 lumens  
Efficiency: N/A  
Efficacy: 144.8 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

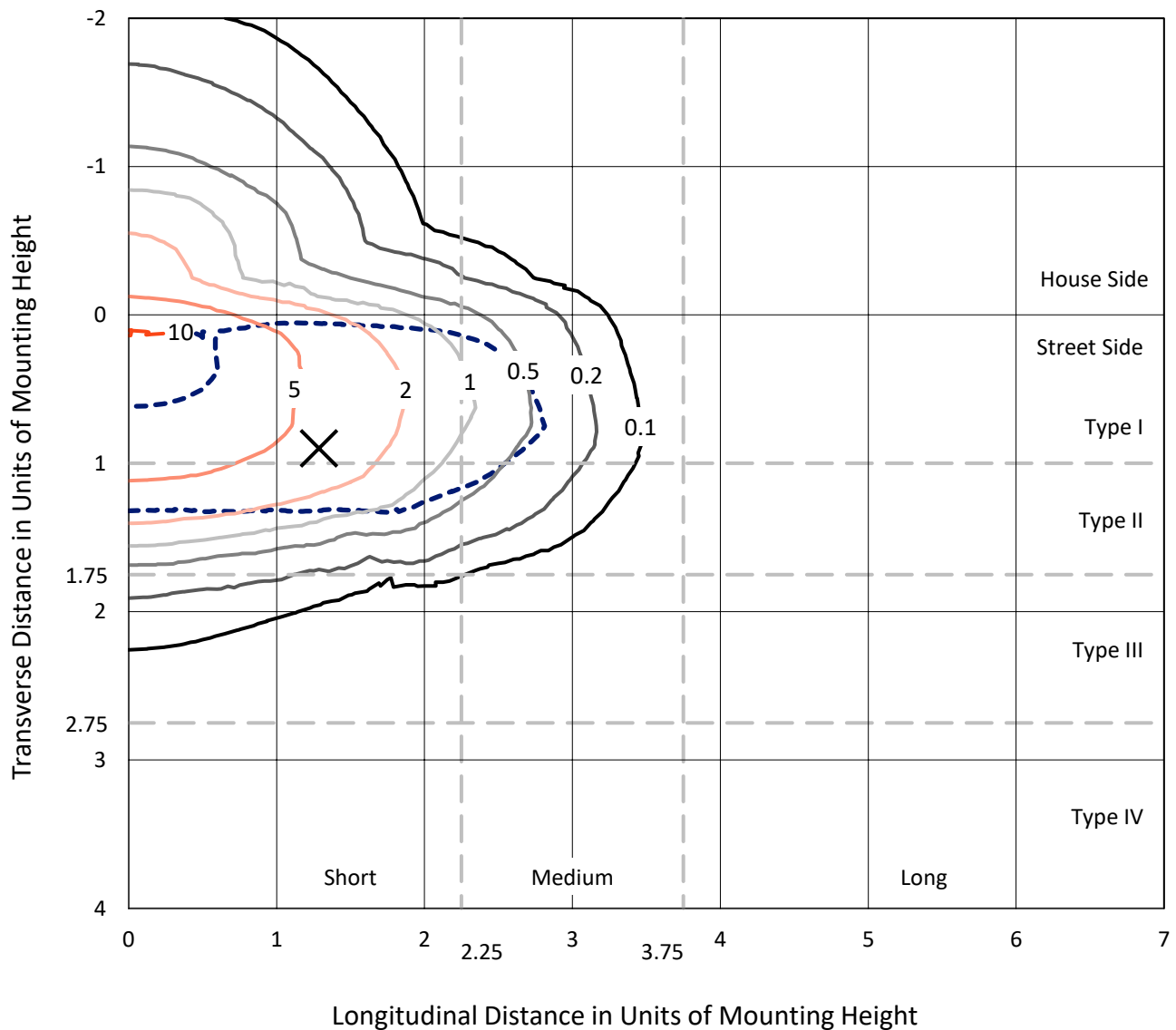


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## Iso-Footcandle Lines of Horizontal Illumination

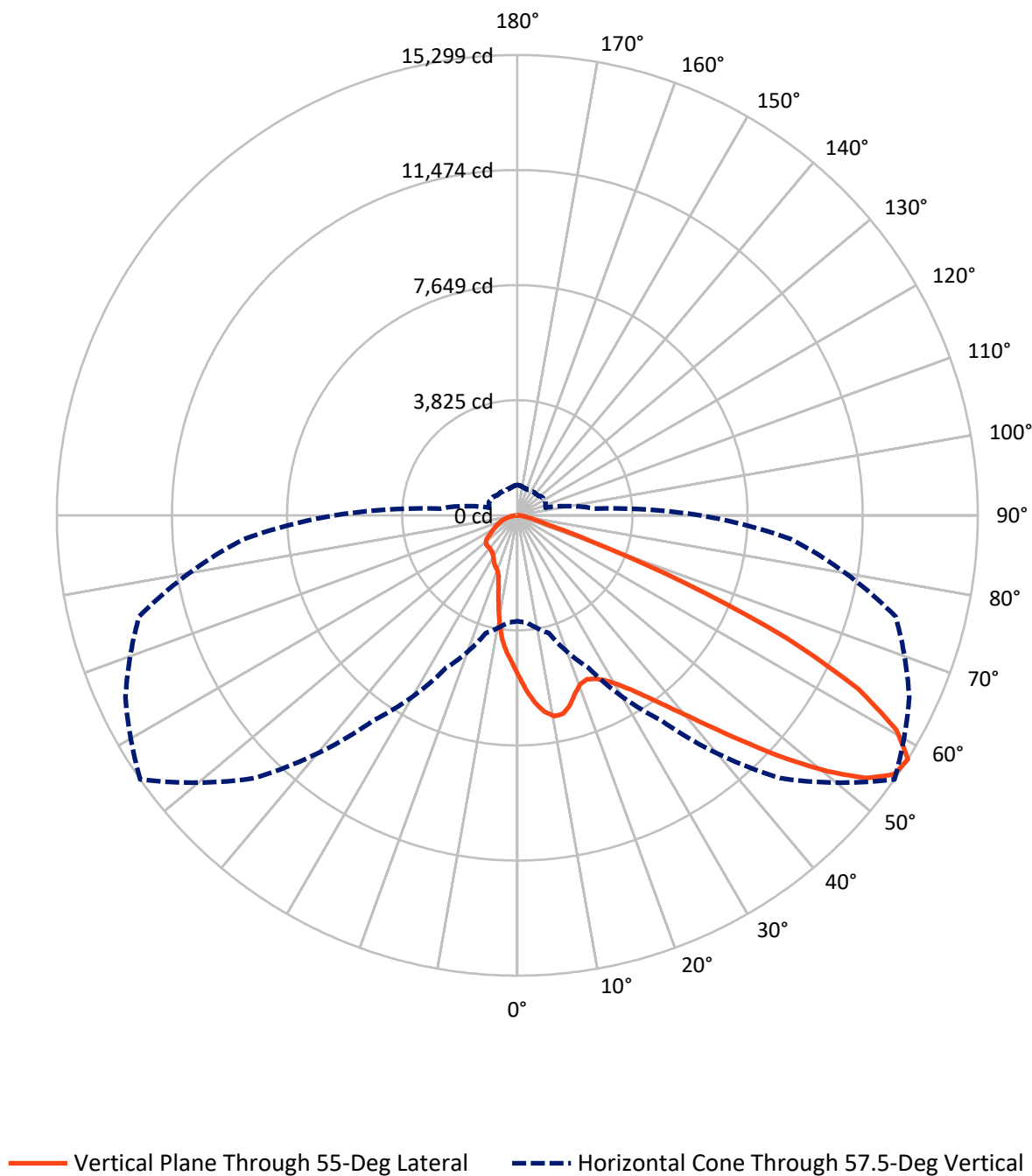
× Max cd  
- - - 1/2 Max cd



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

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## Luminous Intensity Polar Plot



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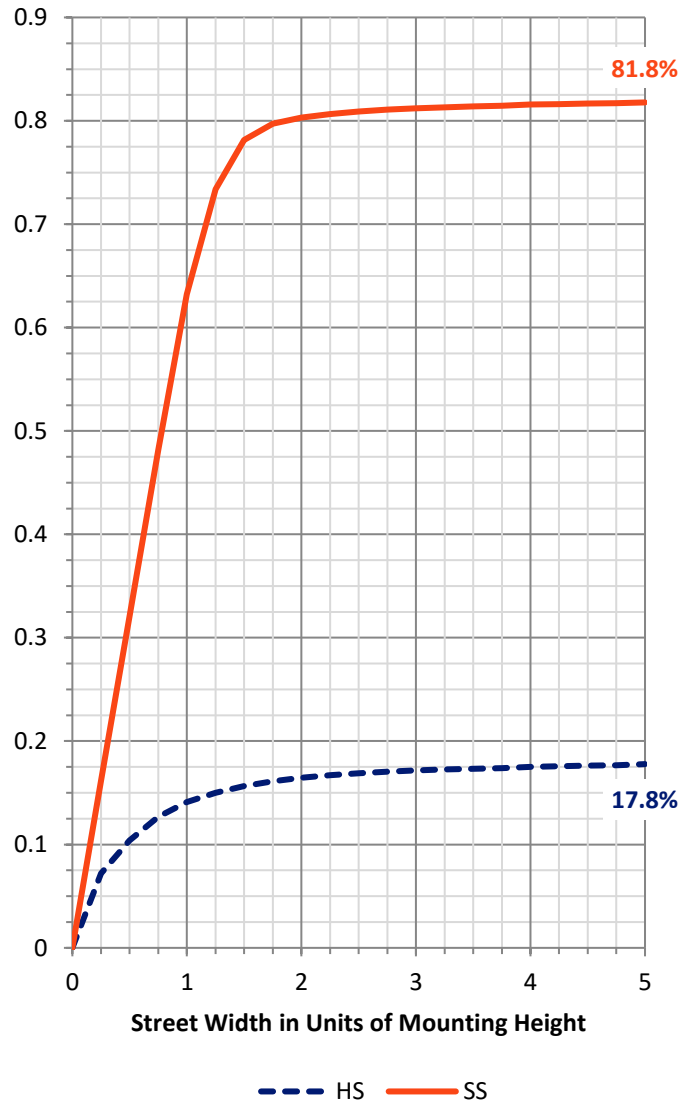
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3852.1   | 0.0    | 3852.1  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 17436.9  | 0.0    | 17436.9 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 21289.0  | 0.0    | 21289.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 495.0   | 2.3       |
| 10°-20°   | 1249.4  | 5.9       |
| 20°-30°   | 1993.7  | 9.4       |
| 30°-40°   | 3156.5  | 14.8      |
| 40°-50°   | 4831.3  | 22.7      |
| 50°-60°   | 5174.8  | 24.3      |
| 60°-70°   | 3255.5  | 15.3      |
| 70°-80°   | 962.7   | 4.5       |
| 80°-90°   | 170.2   | 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°    | 21289.0 | 100.0     |
| 0°-180°   | 21289.0 | 100.0     |

**Coefficient of Utilization**



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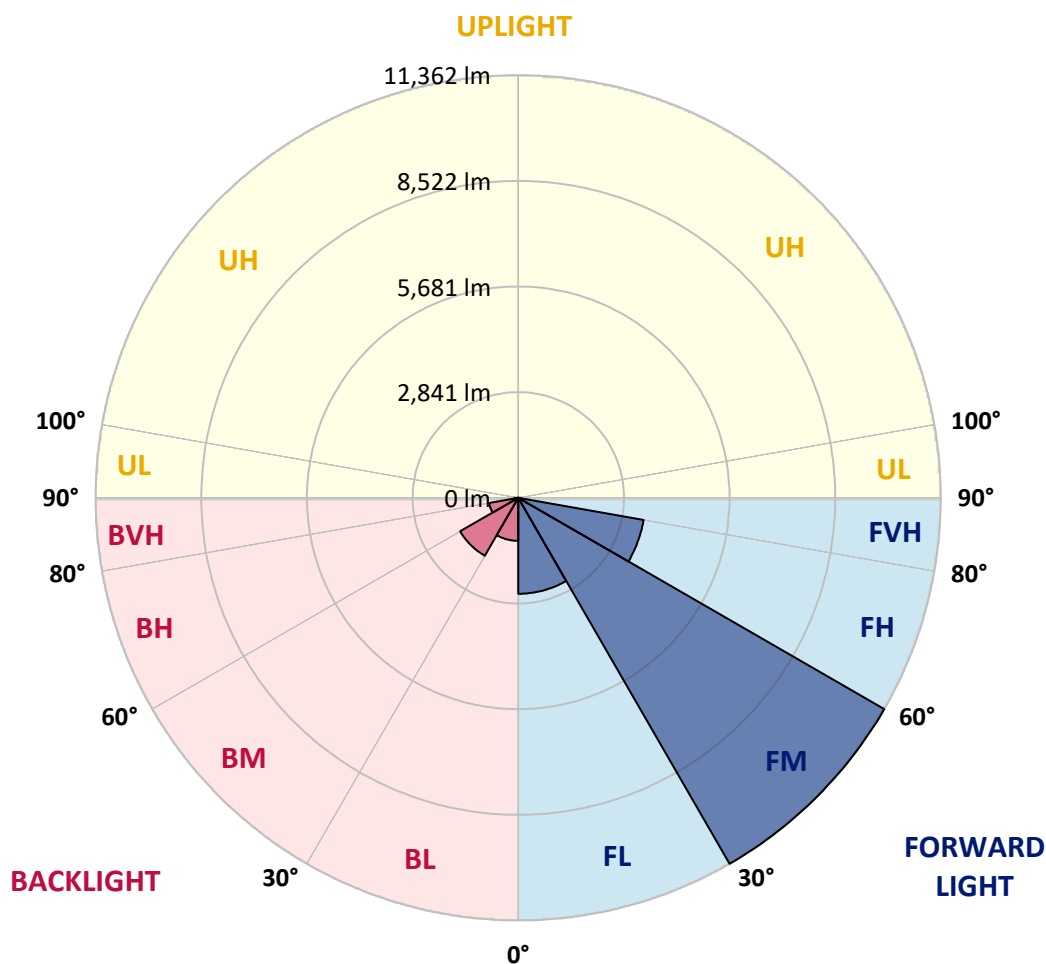
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2580.2  | 12.1      |                         |      |         |
| FM   | (30°-60°)   | 11362.1 | 53.4      |                         |      |         |
| FH   | (60°-80°)   | 3422.6  | 16.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 71.9    | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1157.8  | 5.4       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1800.5  | 8.5       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 795.6   | 3.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 98.3    | 0.5       |                         |      | G1/100  |
| 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°    | 5334.3  | 5334.3  | 5334.3  | 5334.3  | 5334.3  | 5334.3  | 5334.3  | 5334.3  | 5334.3  | 5334.3 |
| 2.5°  | 6120.1  | 6115.7  | 6139.9  | 6057.4  | 6001.3  | 5925.3  | 5825.2  | 5697.5  | 5559.9  | 5414.7 |
| 5°    | 6671.5  | 6633.0  | 6658.3  | 6596.7  | 6535.0  | 6420.6  | 6272.0  | 6064.0  | 5809.8  | 5520.3 |
| 7.5°  | 6584.5  | 6558.1  | 6623.1  | 6678.1  | 6724.3  | 6710.0  | 6601.1  | 6383.1  | 6055.2  | 5634.8 |
| 10°   | 5883.5  | 5853.8  | 5945.1  | 6135.5  | 6415.1  | 6658.3  | 6790.4  | 6655.0  | 6306.1  | 5760.2 |
| 12.5° | 5265.0  | 5250.7  | 5311.2  | 5465.3  | 5775.7  | 6242.3  | 6766.1  | 6892.7  | 6566.9  | 5908.8 |
| 15°   | 5000.9  | 4983.3  | 5021.8  | 5099.9  | 5298.0  | 5732.7  | 6546.0  | 7055.6  | 6823.4  | 6080.5 |
| 17.5° | 4942.5  | 4922.7  | 4939.2  | 4980.0  | 5107.6  | 5438.9  | 6213.7  | 7135.9  | 7090.8  | 6272.0 |
| 20°   | 5050.4  | 5033.9  | 5036.1  | 5033.9  | 5123.0  | 5386.1  | 5982.6  | 7105.1  | 7324.1  | 6448.1 |
| 22.5° | 5311.2  | 5283.7  | 5284.8  | 5226.5  | 5274.9  | 5478.5  | 5922.0  | 7022.6  | 7532.1  | 6602.2 |
| 25°   | 5736.0  | 5686.5  | 5696.4  | 5547.8  | 5534.6  | 5685.4  | 6016.7  | 6958.7  | 7739.0  | 6725.4 |
| 27.5° | 6317.1  | 6261.0  | 6231.3  | 6010.1  | 5904.4  | 5979.3  | 6209.3  | 6980.7  | 7934.9  | 6832.2 |
| 30°   | 7043.5  | 6975.2  | 6914.7  | 6601.1  | 6409.6  | 6382.0  | 6508.6  | 7126.0  | 8166.0  | 6944.4 |
| 32.5° | 7933.8  | 7854.6  | 7744.5  | 7328.5  | 7058.9  | 6914.7  | 6896.0  | 7384.6  | 8436.8  | 7087.5 |
| 35°   | 8993.6  | 8890.2  | 8733.9  | 8195.7  | 7854.6  | 7559.6  | 7406.7  | 7757.7  | 8807.6  | 7303.2 |
| 37.5° | 10085.4 | 9968.7  | 9825.6  | 9185.1  | 8765.8  | 8331.1  | 8029.6  | 8264.0  | 9301.8  | 7595.9 |
| 40°   | 11092.4 | 10961.4 | 10828.2 | 10258.2 | 9808.0  | 9284.2  | 8792.2  | 8904.5  | 9906.0  | 7945.9 |
| 42.5° | 11686.7 | 11589.8 | 11539.2 | 11231.0 | 10883.3 | 10351.7 | 9740.9  | 9663.9  | 10585.0 | 8348.7 |
| 45°   | 11660.3 | 11620.6 | 11776.9 | 11904.6 | 11822.0 | 11527.1 | 10852.5 | 10503.6 | 11266.3 | 8697.6 |
| 47.5° | 11037.3 | 11063.8 | 11412.6 | 12130.2 | 12446.0 | 12600.1 | 12118.1 | 11327.9 | 11858.4 | 8958.4 |
| 50°   | 9342.5  | 9364.5  | 10172.3 | 11719.7 | 12606.7 | 13475.0 | 13373.8 | 12132.4 | 12317.3 | 9118.0 |
| 52.5° | 8000.9  | 8015.3  | 8361.9  | 10502.5 | 12076.3 | 13915.3 | 14505.2 | 12890.7 | 12652.9 | 9162.0 |
| 55°   | 6026.6  | 6076.1  | 6464.6  | 8239.8  | 10696.2 | 13566.4 | 15194.1 | 13672.0 | 12865.3 | 9166.4 |
| 57.5° | 3520.6  | 3574.6  | 4054.4  | 5593.0  | 8313.5  | 12350.3 | 15298.6 | 14365.4 | 13009.5 | 9131.2 |
| 60°   | 1724.6  | 1747.7  | 1956.8  | 2939.6  | 5126.3  | 10007.2 | 14457.8 | 14701.1 | 13089.9 | 9112.5 |
| 62.5° | 1162.2  | 1158.9  | 1167.7  | 1450.5  | 2525.7  | 6429.4  | 12705.8 | 14113.4 | 13046.9 | 9041.0 |
| 65°   | 999.3   | 987.2   | 954.2   | 1018.0  | 1308.5  | 2940.7  | 9816.8  | 12359.1 | 12720.1 | 8861.6 |
| 67.5° | 863.9   | 865.0   | 866.1   | 846.3   | 934.4   | 1357.0  | 5999.1  | 9735.4  | 11546.9 | 8012.0 |
| 70°   | 715.4   | 725.3   | 729.7   | 729.7   | 761.6   | 890.3   | 2561.0  | 6672.6  | 9108.1  | 6281.9 |
| 72.5° | 651.5   | 630.6   | 632.8   | 621.8   | 621.8   | 677.9   | 1031.2  | 3782.6  | 5738.2  | 3533.8 |
| 75°   | 531.6   | 544.8   | 547.0   | 539.3   | 514.0   | 517.3   | 611.9   | 1587.0  | 2455.3  | 1465.9 |
| 77.5° | 458.9   | 458.9   | 463.3   | 457.8   | 438.0   | 387.4   | 408.3   | 615.2   | 835.3   | 600.9  |
| 80°   | 368.7   | 367.6   | 386.3   | 397.3   | 366.5   | 286.1   | 260.8   | 340.1   | 370.9   | 264.1  |
| 82.5° | 179.4   | 190.4   | 265.2   | 302.6   | 278.4   | 206.9   | 159.6   | 211.3   | 198.1   | 116.7  |
| 85°   | 104.6   | 99.0    | 118.9   | 168.4   | 159.6   | 114.5   | 77.0    | 110.1   | 103.5   | 59.4   |
| 87.5° | 33.0    | 30.8    | 24.2    | 57.2    | 46.2    | 31.9    | 20.9    | 31.9    | 28.6    | 13.2   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5334.3 | 0°    | 5334.3 | 5334.3 | 5334.3 | 5334.3 | 5334.3 | 5334.3 | 5334.3 | 5334.3 | 5334.3 | 5334.3 |
| 5351.9 | 2.5°  | 5273.8 | 5143.9 | 5015.2 | 4897.4 | 4825.9 | 4779.7 | 4733.4 | 4681.7 | 4661.9 | 4632.2 |
| 5366.2 | 5°    | 5221.0 | 4970.1 | 4746.6 | 4554.0 | 4379.1 | 4241.5 | 4102.8 | 3990.6 | 3939.9 | 3974.1 |
| 5411.4 | 7.5°  | 5190.2 | 4827.0 | 4482.5 | 4129.2 | 3789.2 | 3517.3 | 3280.7 | 3114.5 | 3039.7 | 3058.4 |
| 5455.4 | 10°   | 5162.6 | 4665.2 | 4140.2 | 3582.3 | 3093.6 | 2756.9 | 2514.7 | 2388.2 | 2340.9 | 2350.8 |
| 5514.8 | 12.5° | 5137.3 | 4483.6 | 3727.5 | 2993.5 | 2474.0 | 2251.7 | 2182.4 | 2183.5 | 2192.3 | 2198.9 |
| 5609.5 | 15°   | 5132.9 | 4264.6 | 3266.4 | 2478.4 | 2139.5 | 2125.1 | 2200.0 | 2247.3 | 2272.6 | 2280.3 |
| 5688.7 | 17.5° | 5126.3 | 4002.7 | 2796.5 | 2127.3 | 2058.0 | 2154.9 | 2224.2 | 2255.0 | 2274.8 | 2275.9 |
| 5765.7 | 20°   | 5099.9 | 3670.3 | 2362.9 | 1960.1 | 2040.4 | 2124.0 | 2167.0 | 2191.2 | 2207.7 | 2213.2 |
| 5824.1 | 22.5° | 5018.5 | 3300.5 | 2025.0 | 1885.2 | 1970.0 | 2037.1 | 2087.7 | 2115.2 | 2125.1 | 2131.8 |
| 5835.1 | 25°   | 4872.1 | 2886.7 | 1791.7 | 1813.7 | 1872.0 | 1956.8 | 1997.5 | 2003.0 | 1999.7 | 2009.6 |
| 5807.6 | 27.5° | 4680.6 | 2443.2 | 1646.4 | 1716.8 | 1791.7 | 1864.3 | 1886.3 | 1883.0 | 1876.4 | 1887.4 |
| 5760.2 | 30°   | 4449.5 | 2044.8 | 1554.0 | 1607.9 | 1710.2 | 1776.3 | 1796.1 | 1788.4 | 1775.2 | 1787.3 |
| 5736.0 | 32.5° | 4205.2 | 1719.0 | 1478.0 | 1532.0 | 1643.1 | 1708.0 | 1727.9 | 1720.1 | 1710.2 | 1720.1 |
| 5763.5 | 35°   | 3977.4 | 1491.2 | 1407.6 | 1481.3 | 1590.3 | 1654.1 | 1679.4 | 1680.5 | 1680.5 | 1692.6 |
| 5836.2 | 37.5° | 3768.3 | 1358.1 | 1349.3 | 1449.4 | 1554.0 | 1611.2 | 1647.5 | 1649.7 | 1602.4 | 1605.7 |
| 5959.4 | 40°   | 3574.6 | 1301.9 | 1322.9 | 1428.5 | 1518.7 | 1573.8 | 1576.0 | 1452.7 | 1365.8 | 1363.6 |
| 6100.3 | 42.5° | 3416.1 | 1290.9 | 1330.6 | 1426.3 | 1493.4 | 1495.6 | 1340.5 | 1244.7 | 1220.5 | 1221.6 |
| 6230.2 | 45°   | 3267.5 | 1287.6 | 1348.2 | 1426.3 | 1456.0 | 1292.0 | 1187.5 | 1162.2 | 1164.4 | 1173.2 |
| 6288.5 | 47.5° | 3101.3 | 1274.4 | 1351.5 | 1406.5 | 1348.2 | 1149.0 | 1118.2 | 1107.1 | 1102.7 | 1104.9 |
| 6275.3 | 50°   | 2919.7 | 1227.1 | 1309.6 | 1366.9 | 1163.3 | 1087.3 | 1048.8 | 1045.5 | 1051.0 | 1054.3 |
| 6201.6 | 52.5° | 2728.2 | 1150.1 | 1238.1 | 1295.3 | 1078.5 | 1033.4 | 990.5  | 998.2  | 1022.4 | 1030.1 |
| 6124.5 | 55°   | 2602.8 | 1059.8 | 1143.5 | 1152.3 | 1019.1 | 982.8  | 946.5  | 964.1  | 1009.2 | 1023.5 |
| 6078.3 | 57.5° | 2569.8 | 964.1  | 1035.6 | 1025.7 | 943.2  | 938.8  | 916.8  | 932.2  | 989.4  | 1010.3 |
| 6076.1 | 60°   | 2559.9 | 878.2  | 930.0  | 922.3  | 869.4  | 890.3  | 884.8  | 892.5  | 912.4  | 919.0  |
| 6054.1 | 62.5° | 2482.8 | 810.0  | 835.3  | 824.3  | 803.4  | 839.7  | 852.9  | 836.4  | 851.8  | 859.5  |
| 5903.3 | 65°   | 2286.9 | 755.0  | 742.9  | 735.2  | 744.0  | 777.0  | 803.4  | 770.4  | 784.7  | 806.7  |
| 5322.2 | 67.5° | 1963.4 | 680.1  | 647.1  | 655.9  | 683.4  | 701.0  | 735.2  | 697.7  | 709.9  | 747.3  |
| 4286.6 | 70°   | 1588.1 | 585.5  | 555.8  | 581.1  | 607.5  | 643.8  | 649.3  | 624.0  | 652.6  | 694.4  |
| 2616.0 | 72.5° | 1123.7 | 489.7  | 468.8  | 520.6  | 529.4  | 576.7  | 564.6  | 552.5  | 592.1  | 606.4  |
| 1293.1 | 75°   | 779.2  | 395.1  | 383.0  | 422.6  | 454.5  | 495.2  | 486.4  | 500.7  | 584.4  | 591.0  |
| 646.0  | 77.5° | 493.0  | 307.1  | 299.3  | 324.7  | 368.7  | 413.8  | 428.1  | 591.0  | 998.2  | 1037.8 |
| 335.7  | 80°   | 286.1  | 228.9  | 220.1  | 239.9  | 278.4  | 320.3  | 412.7  | 725.3  | 658.1  | 650.4  |
| 150.8  | 82.5° | 159.6  | 157.4  | 146.4  | 151.9  | 186.0  | 231.1  | 583.3  | 510.7  | 414.9  | 428.1  |
| 60.5   | 85°   | 74.8   | 92.4   | 79.2   | 75.9   | 104.6  | 270.7  | 389.6  | 291.6  | 193.7  | 189.3  |
| 13.2   | 87.5° | 19.8   | 17.6   | 17.6   | 19.8   | 44.0   | 233.3  | 155.2  | 124.4  | 73.7   | 71.5   |
| 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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