

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: P950755

Luminaire Tested: **GLAN-SB5A-840-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950755  
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-SB5A-840-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22043 lumens  
Efficiency: N/A  
Efficacy: 155.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 141.7  
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

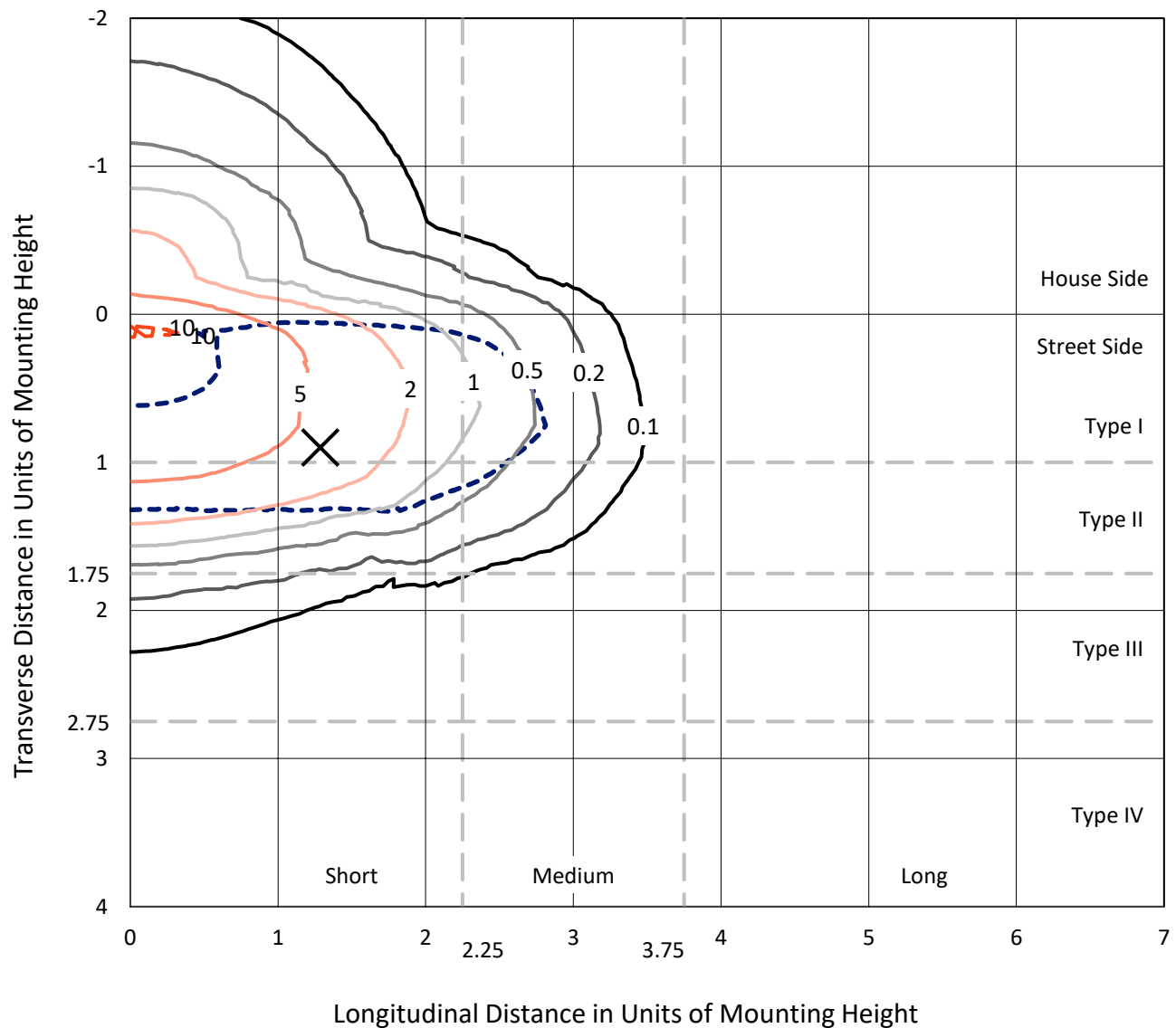


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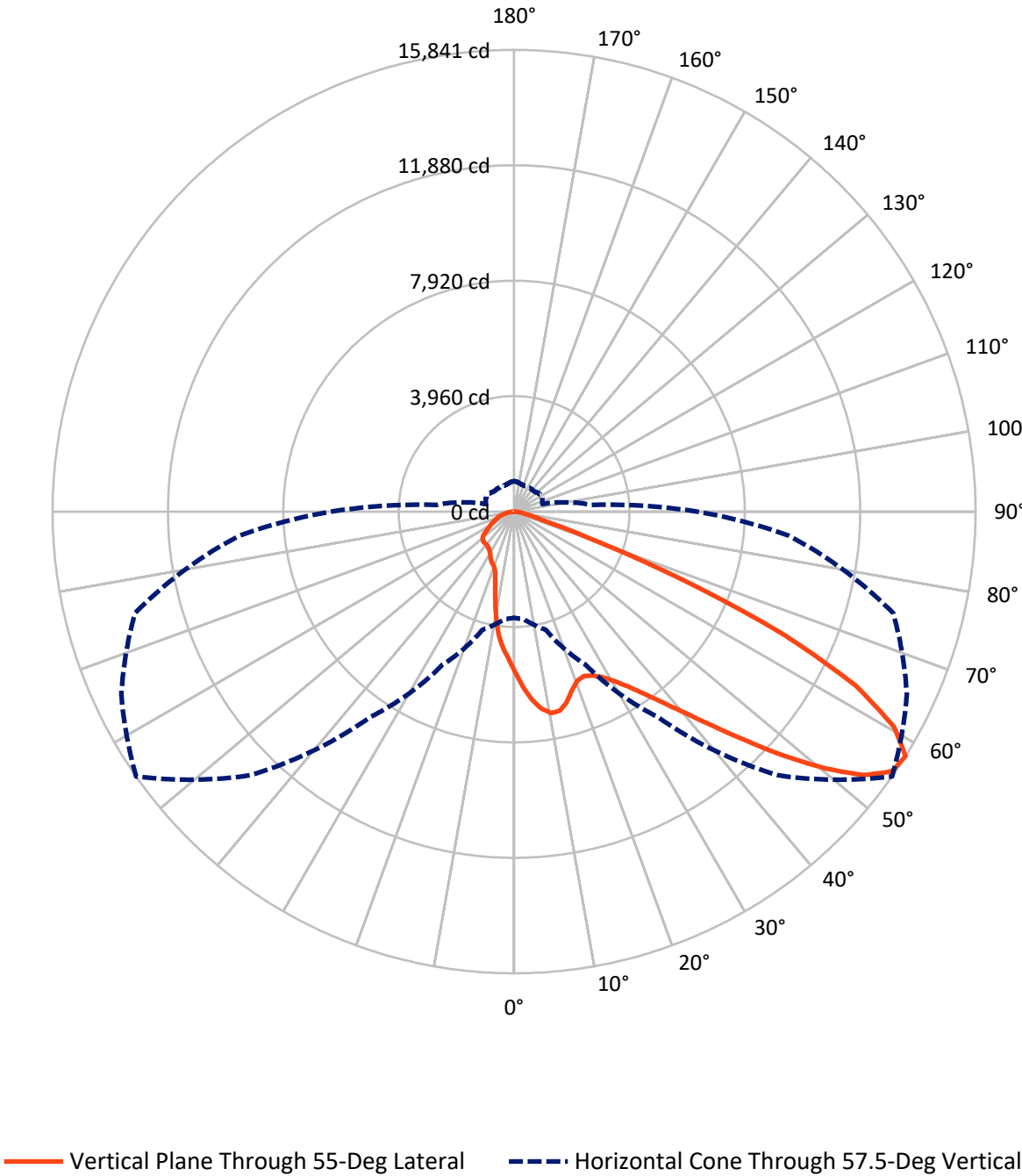
## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd



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Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3988.6   | 0.0    | 3988.6  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 18054.4  | 0.0    | 18054.4 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 22043.0  | 0.0    | 22043.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 512.5   | 2.3       |
| 10°-20°   | 1293.6  | 5.9       |
| 20°-30°   | 2064.3  | 9.4       |
| 30°-40°   | 3268.3  | 14.8      |
| 40°-50°   | 5002.4  | 22.7      |
| 50°-60°   | 5358.1  | 24.3      |
| 60°-70°   | 3370.8  | 15.3      |
| 70°-80°   | 996.8   | 4.5       |
| 80°-90°   | 176.2   | 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°    | 22043.0 | 100.0     |
| 0°-180°   | 22043.0 | 100.0     |

**Coefficient of Utilization**



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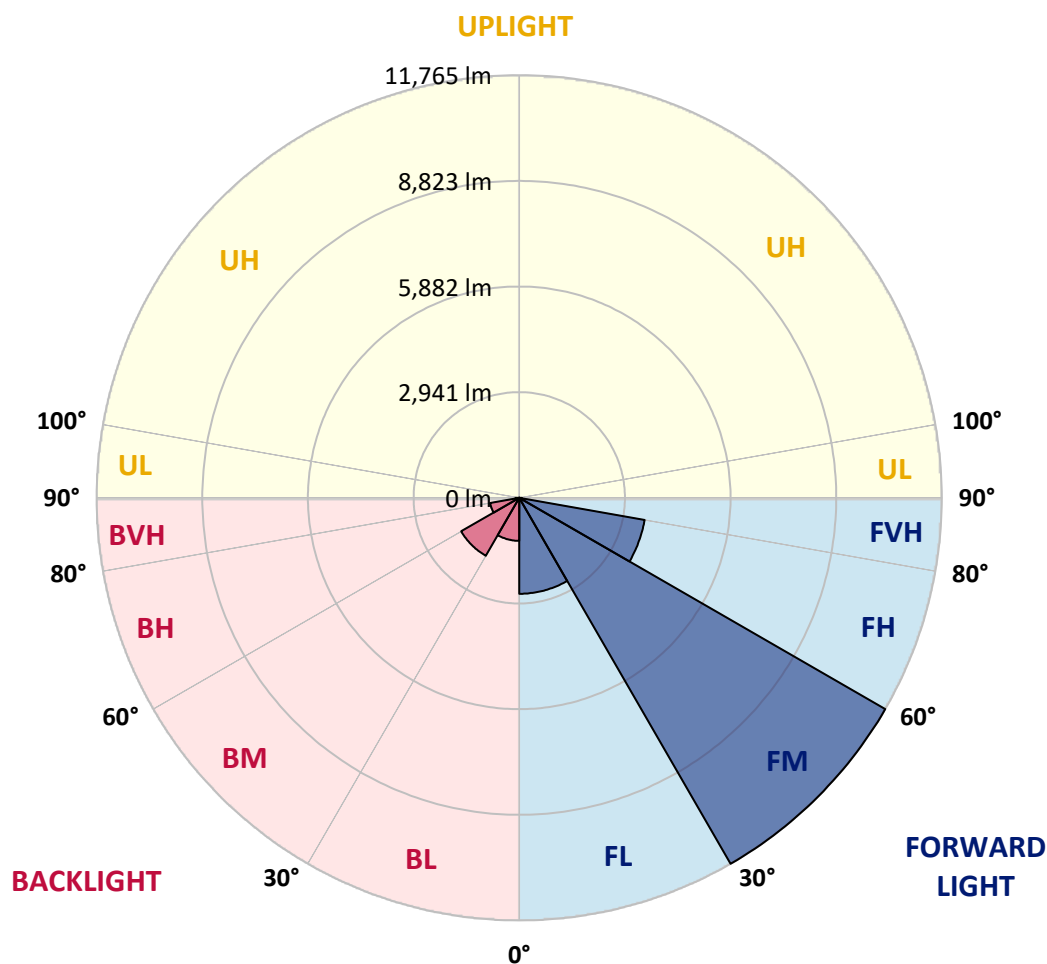
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2671.6  | 12.1      |                         |      |         |
| FM   | (30°-60°)   | 11764.5 | 53.4      |                         |      |         |
| FH   | (60°-80°)   | 3543.8  | 16.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 74.5    | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1198.8  | 5.4       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1864.2  | 8.5       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 823.7   | 3.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 101.8   | 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°    | 5523.3  | 5523.3  | 5523.3  | 5523.3  | 5523.3  | 5523.3  | 5523.3  | 5523.3  | 5523.3  | 5523.3 |
| 2.5°  | 6336.9  | 6332.3  | 6357.4  | 6271.9  | 6213.8  | 6135.2  | 6031.5  | 5899.3  | 5756.9  | 5606.4 |
| 5°    | 6907.8  | 6867.9  | 6894.1  | 6830.3  | 6766.5  | 6648.0  | 6494.1  | 6278.8  | 6015.5  | 5715.8 |
| 7.5°  | 6817.8  | 6790.4  | 6857.6  | 6914.6  | 6962.5  | 6947.7  | 6834.8  | 6609.2  | 6269.6  | 5834.3 |
| 10°   | 6091.9  | 6061.1  | 6155.7  | 6352.8  | 6642.3  | 6894.1  | 7030.8  | 6890.7  | 6529.5  | 5964.3 |
| 12.5° | 5451.5  | 5436.7  | 5499.3  | 5658.9  | 5980.2  | 6463.4  | 7005.8  | 7136.8  | 6799.5  | 6118.1 |
| 15°   | 5178.0  | 5159.8  | 5199.6  | 5280.5  | 5485.7  | 5935.8  | 6777.9  | 7305.5  | 7065.0  | 6295.9 |
| 17.5° | 5117.6  | 5097.1  | 5114.2  | 5156.3  | 5288.5  | 5631.5  | 6433.7  | 7388.7  | 7341.9  | 6494.1 |
| 20°   | 5229.3  | 5212.2  | 5214.4  | 5212.2  | 5304.5  | 5576.8  | 6194.4  | 7356.8  | 7583.5  | 6676.5 |
| 22.5° | 5499.3  | 5470.8  | 5472.0  | 5411.6  | 5461.7  | 5672.5  | 6131.8  | 7271.3  | 7798.9  | 6836.0 |
| 25°   | 5939.2  | 5887.9  | 5898.2  | 5744.3  | 5730.7  | 5886.8  | 6229.8  | 7205.2  | 8013.1  | 6963.6 |
| 27.5° | 6540.9  | 6482.7  | 6452.0  | 6222.9  | 6113.5  | 6191.0  | 6429.2  | 7228.0  | 8215.9  | 7074.1 |
| 30°   | 7292.9  | 7222.3  | 7159.6  | 6834.8  | 6636.6  | 6608.1  | 6739.1  | 7378.4  | 8455.2  | 7190.4 |
| 32.5° | 8214.8  | 8132.8  | 8018.8  | 7588.1  | 7308.9  | 7159.6  | 7140.2  | 7646.2  | 8735.6  | 7338.5 |
| 35°   | 9312.2  | 9205.1  | 9043.2  | 8486.0  | 8132.8  | 7827.4  | 7669.0  | 8032.5  | 9119.6  | 7561.9 |
| 37.5° | 10442.6 | 10321.8 | 10173.6 | 9510.4  | 9076.3  | 8626.2  | 8313.9  | 8556.7  | 9631.2  | 7865.0 |
| 40°   | 11485.2 | 11349.6 | 11211.8 | 10621.5 | 10155.4 | 9613.0  | 9103.6  | 9219.9  | 10256.8 | 8227.3 |
| 42.5° | 12100.6 | 12000.3 | 11947.9 | 11628.8 | 11268.7 | 10718.3 | 10085.9 | 10006.1 | 10959.9 | 8644.4 |
| 45°   | 12073.2 | 12032.2 | 12194.0 | 12326.2 | 12240.7 | 11935.3 | 11236.8 | 10875.6 | 11665.3 | 9005.6 |
| 47.5° | 11428.3 | 11455.6 | 11816.8 | 12559.8 | 12886.8 | 13046.4 | 12547.3 | 11729.1 | 12278.3 | 9275.7 |
| 50°   | 9673.4  | 9696.2  | 10532.6 | 12134.8 | 13053.2 | 13952.3 | 13847.5 | 12562.1 | 12753.5 | 9440.9 |
| 52.5° | 8284.3  | 8299.1  | 8658.1  | 10874.5 | 12504.0 | 14408.1 | 15018.9 | 13347.2 | 13101.1 | 9486.5 |
| 55°   | 6240.0  | 6291.3  | 6693.5  | 8531.6  | 11075.0 | 14046.9 | 15732.2 | 14156.3 | 13321.0 | 9491.1 |
| 57.5° | 3645.3  | 3701.2  | 4198.0  | 5791.0  | 8607.9  | 12787.7 | 15840.5 | 14874.2 | 13470.3 | 9454.6 |
| 60°   | 1785.6  | 1809.6  | 2026.1  | 3043.7  | 5307.9  | 10361.7 | 14969.9 | 15221.7 | 13553.5 | 9435.2 |
| 62.5° | 1203.3  | 1199.9  | 1209.0  | 1501.9  | 2615.2  | 6657.1  | 13155.8 | 14613.2 | 13509.0 | 9361.2 |
| 65°   | 1034.7  | 1022.2  | 988.0   | 1054.1  | 1354.9  | 3044.8  | 10164.5 | 12796.8 | 13170.6 | 9175.4 |
| 67.5° | 894.5   | 895.7   | 896.8   | 876.3   | 967.5   | 1405.0  | 6211.5  | 10080.2 | 11955.9 | 8295.7 |
| 70°   | 740.7   | 750.9   | 755.5   | 755.5   | 788.5   | 921.9   | 2651.7  | 6908.9  | 9430.7  | 6504.4 |
| 72.5° | 674.6   | 652.9   | 655.2   | 643.8   | 643.8   | 701.9   | 1067.7  | 3916.5  | 5941.5  | 3659.0 |
| 75°   | 550.4   | 564.1   | 566.3   | 558.4   | 532.2   | 535.6   | 633.6   | 1643.2  | 2542.3  | 1517.8 |
| 77.5° | 475.2   | 475.2   | 479.7   | 474.0   | 453.5   | 401.1   | 422.8   | 637.0   | 864.9   | 622.2  |
| 80°   | 381.7   | 380.6   | 400.0   | 411.4   | 379.5   | 296.3   | 270.1   | 352.1   | 384.0   | 273.5  |
| 82.5° | 185.7   | 197.1   | 274.6   | 313.4   | 288.3   | 214.2   | 165.2   | 218.8   | 205.1   | 120.8  |
| 85°   | 108.3   | 102.6   | 123.1   | 174.3   | 165.2   | 118.5   | 79.8    | 114.0   | 107.1   | 61.5   |
| 87.5° | 34.2    | 31.9    | 25.1    | 59.3    | 47.9    | 33.0    | 21.7    | 33.0    | 29.6    | 13.7   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5523.3 | 0°    | 5523.3 | 5523.3 | 5523.3 | 5523.3 | 5523.3 | 5523.3 | 5523.3 | 5523.3 | 5523.3 | 5523.3 |
| 5541.5 | 2.5°  | 5460.6 | 5326.1 | 5192.8 | 5070.9 | 4996.8 | 4948.9 | 4901.1 | 4847.5 | 4827.0 | 4796.2 |
| 5556.3 | 5°    | 5405.9 | 5146.1 | 4914.8 | 4715.3 | 4534.2 | 4391.7 | 4248.1 | 4131.9 | 4079.5 | 4114.8 |
| 5603.0 | 7.5°  | 5374.0 | 4997.9 | 4641.3 | 4275.5 | 3923.4 | 3641.9 | 3396.9 | 3224.8 | 3147.4 | 3166.7 |
| 5648.6 | 10°   | 5345.5 | 4830.4 | 4286.9 | 3709.1 | 3203.2 | 2854.5 | 2603.8 | 2472.8 | 2423.8 | 2434.0 |
| 5710.1 | 12.5° | 5319.3 | 4642.4 | 3859.6 | 3099.5 | 2561.6 | 2331.5 | 2259.7 | 2260.8 | 2269.9 | 2276.8 |
| 5808.1 | 15°   | 5314.7 | 4415.6 | 3382.1 | 2566.2 | 2215.2 | 2200.4 | 2277.9 | 2326.9 | 2353.1 | 2361.1 |
| 5890.2 | 17.5° | 5307.9 | 4144.4 | 2895.5 | 2202.7 | 2130.9 | 2231.2 | 2303.0 | 2334.9 | 2355.4 | 2356.5 |
| 5970.0 | 20°   | 5280.5 | 3800.3 | 2446.6 | 2029.5 | 2112.7 | 2199.3 | 2243.7 | 2268.8 | 2285.9 | 2291.6 |
| 6030.3 | 22.5° | 5196.2 | 3417.4 | 2096.7 | 1952.0 | 2039.7 | 2109.3 | 2161.7 | 2190.2 | 2200.4 | 2207.3 |
| 6041.7 | 25°   | 5044.7 | 2989.0 | 1855.1 | 1877.9 | 1938.3 | 2026.1 | 2068.2 | 2073.9 | 2070.5 | 2080.8 |
| 6013.3 | 27.5° | 4846.4 | 2529.7 | 1704.7 | 1777.7 | 1855.1 | 1930.3 | 1953.1 | 1949.7 | 1942.9 | 1954.3 |
| 5964.3 | 30°   | 4607.1 | 2117.2 | 1609.0 | 1664.8 | 1770.8 | 1839.2 | 1859.7 | 1851.7 | 1838.0 | 1850.6 |
| 5939.2 | 32.5° | 4354.1 | 1779.9 | 1530.4 | 1586.2 | 1701.3 | 1768.5 | 1789.0 | 1781.1 | 1770.8 | 1781.1 |
| 5967.7 | 35°   | 4118.2 | 1544.1 | 1457.4 | 1533.8 | 1646.6 | 1712.7 | 1738.9 | 1740.0 | 1740.0 | 1752.6 |
| 6042.9 | 37.5° | 3901.7 | 1406.2 | 1397.1 | 1500.7 | 1609.0 | 1668.3 | 1705.9 | 1708.1 | 1659.1 | 1662.6 |
| 6170.5 | 40°   | 3701.2 | 1348.1 | 1369.7 | 1479.1 | 1572.5 | 1629.5 | 1631.8 | 1504.2 | 1414.1 | 1411.9 |
| 6316.4 | 42.5° | 3537.1 | 1336.7 | 1377.7 | 1476.8 | 1546.3 | 1548.6 | 1387.9 | 1288.8 | 1263.7 | 1264.9 |
| 6450.8 | 45°   | 3383.2 | 1333.2 | 1395.9 | 1476.8 | 1507.6 | 1337.8 | 1229.5 | 1203.3 | 1205.6 | 1214.7 |
| 6511.2 | 47.5° | 3211.2 | 1319.6 | 1399.3 | 1456.3 | 1395.9 | 1189.7 | 1157.8 | 1146.4 | 1141.8 | 1144.1 |
| 6497.6 | 50°   | 3023.2 | 1270.6 | 1356.0 | 1415.3 | 1204.5 | 1125.8 | 1086.0 | 1082.5 | 1088.2 | 1091.7 |
| 6421.2 | 52.5° | 2824.9 | 1190.8 | 1282.0 | 1341.2 | 1116.7 | 1070.0 | 1025.6 | 1033.5 | 1058.6 | 1066.6 |
| 6341.4 | 55°   | 2695.0 | 1097.4 | 1184.0 | 1193.1 | 1055.2 | 1017.6 | 980.0  | 998.2  | 1044.9 | 1059.8 |
| 6293.6 | 57.5° | 2660.8 | 998.2  | 1072.3 | 1062.0 | 976.6  | 972.0  | 949.2  | 965.2  | 1024.4 | 1046.1 |
| 6291.3 | 60°   | 2650.5 | 909.3  | 962.9  | 954.9  | 900.2  | 921.9  | 916.2  | 924.2  | 944.7  | 951.5  |
| 6268.5 | 62.5° | 2570.8 | 838.7  | 864.9  | 853.5  | 831.9  | 869.5  | 883.1  | 866.0  | 882.0  | 890.0  |
| 6112.4 | 65°   | 2367.9 | 781.7  | 769.2  | 761.2  | 770.3  | 804.5  | 831.9  | 797.7  | 812.5  | 835.3  |
| 5510.7 | 67.5° | 2032.9 | 704.2  | 670.0  | 679.2  | 707.6  | 725.9  | 761.2  | 722.5  | 735.0  | 773.7  |
| 4438.4 | 70°   | 1644.3 | 606.2  | 575.5  | 601.7  | 629.0  | 666.6  | 672.3  | 646.1  | 675.7  | 719.0  |
| 2708.6 | 72.5° | 1163.5 | 507.1  | 485.4  | 539.0  | 548.1  | 597.1  | 584.6  | 572.0  | 613.1  | 627.9  |
| 1338.9 | 75°   | 806.8  | 409.1  | 396.6  | 437.6  | 470.6  | 512.8  | 503.7  | 518.5  | 605.1  | 611.9  |
| 668.9  | 77.5° | 510.5  | 317.9  | 309.9  | 336.2  | 381.7  | 428.5  | 443.3  | 611.9  | 1033.5 | 1074.6 |
| 347.6  | 80°   | 296.3  | 237.0  | 227.9  | 248.4  | 288.3  | 331.6  | 427.3  | 750.9  | 681.4  | 673.5  |
| 156.1  | 82.5° | 165.2  | 163.0  | 151.6  | 157.3  | 192.6  | 239.3  | 603.9  | 528.7  | 429.6  | 443.3  |
| 62.7   | 85°   | 77.5   | 95.7   | 82.0   | 78.6   | 108.3  | 280.3  | 403.4  | 302.0  | 200.6  | 196.0  |
| 13.7   | 87.5° | 20.5   | 18.2   | 18.2   | 20.5   | 45.6   | 241.6  | 160.7  | 128.8  | 76.3   | 74.1   |
| 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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