

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: P951636

Luminaire Tested: **GLAN-SB5D-727-U-AFL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P951636  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB5D-727-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 40652 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 364.9  
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

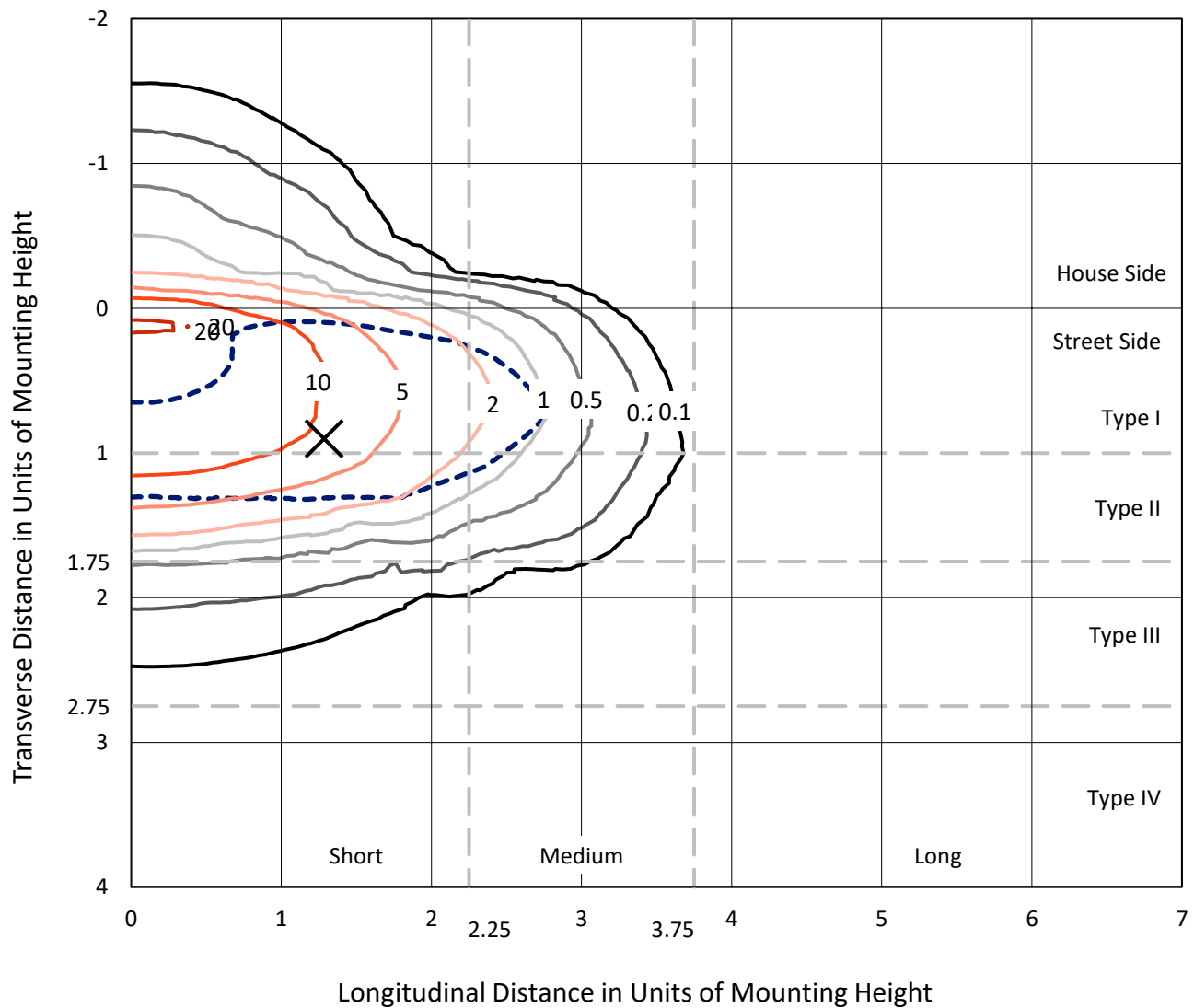


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## Iso-Footcandle Lines of Horizontal Illumination

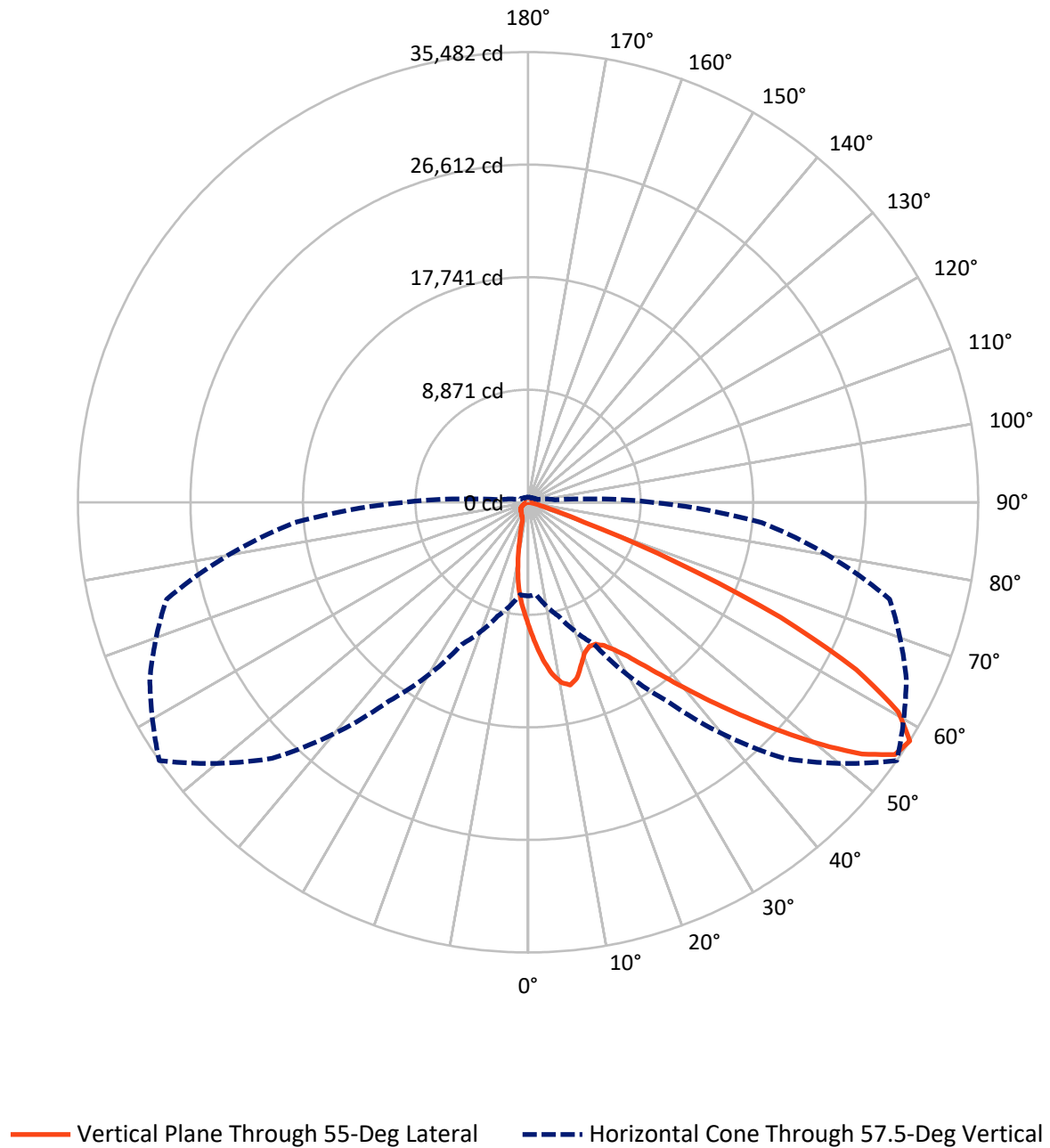
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.4 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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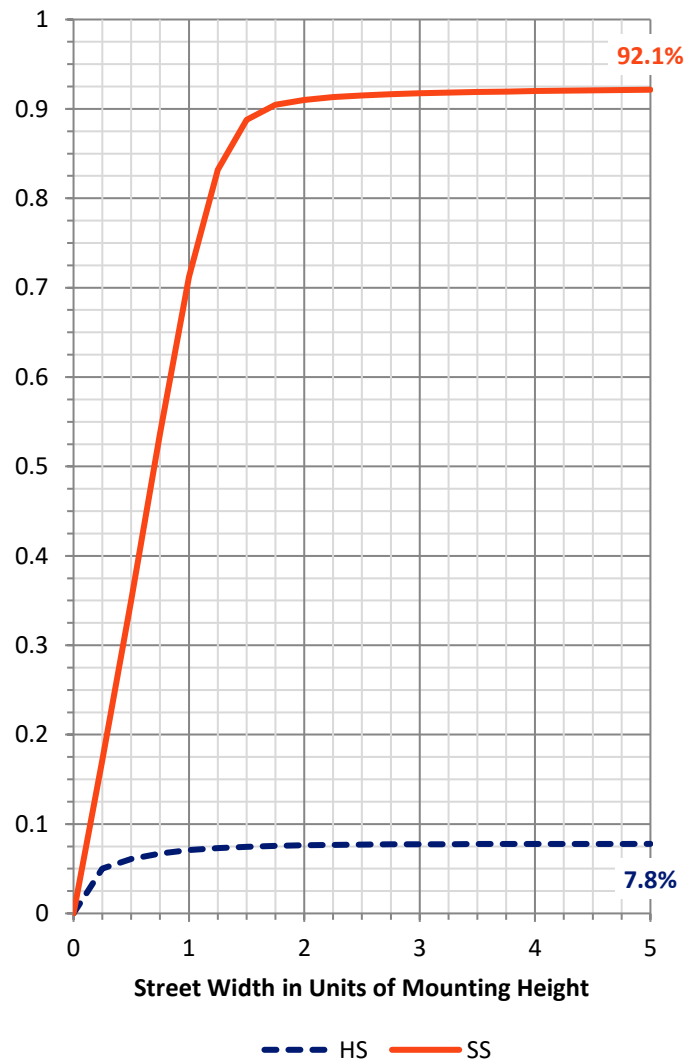
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3174.8   | 0.0    | 3174.8  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 37477.3  | 0.0    | 37477.3 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 40652.0  | 0.0    | 40652.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 911.5   | 2.2       |
| 10°-20°   | 2201.7  | 5.4       |
| 20°-30°   | 3522.6  | 8.7       |
| 30°-40°   | 5962.3  | 14.7      |
| 40°-50°   | 9788.8  | 24.1      |
| 50°-60°   | 10758.6 | 26.5      |
| 60°-70°   | 6171.1  | 15.2      |
| 70°-80°   | 1261.0  | 3.1       |
| 80°-90°   | 74.4    | 0.2       |
| 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°    | 40652.0 | 100.0     |
| 0°-180°   | 40652.0 | 100.0     |

**Coefficient of Utilization**



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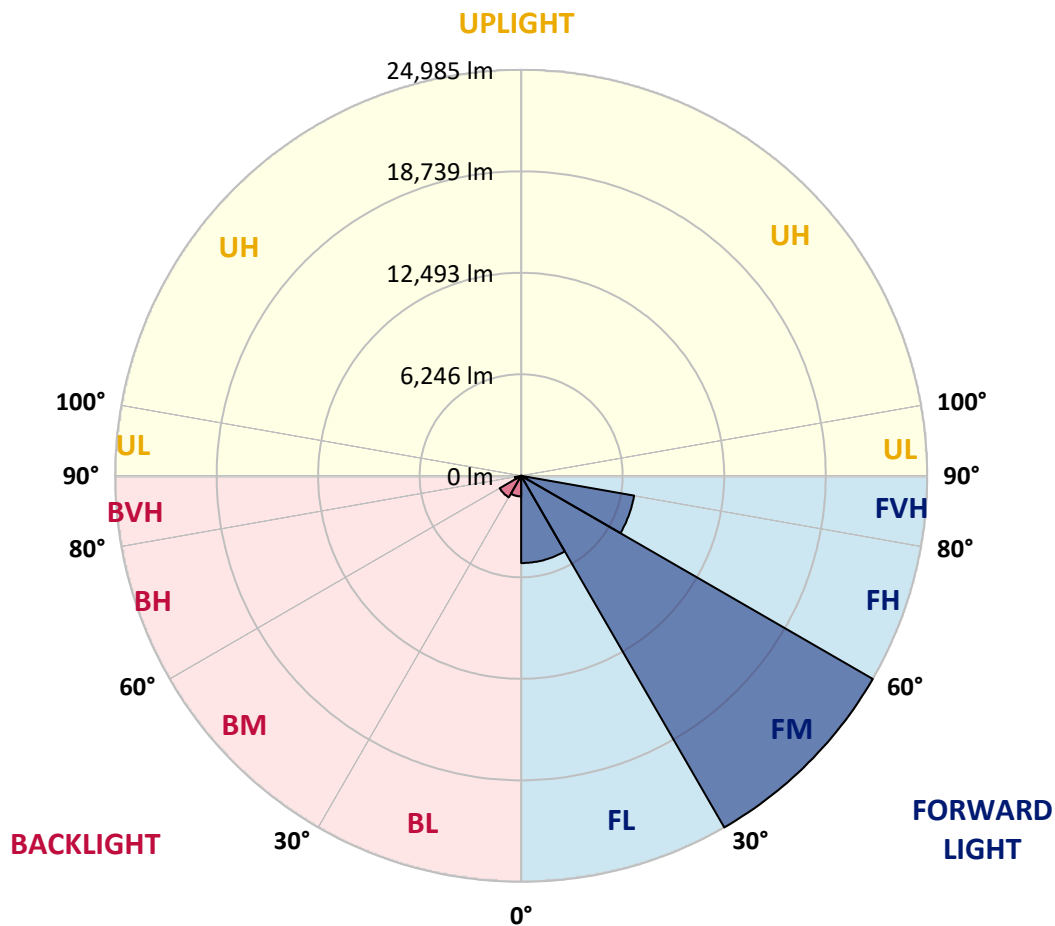
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 5368.3  | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 24985.0 | 61.5      |                         |      |         |
| FH   | (60°-80°)   | 7054.5  | 17.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 69.4    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1267.4  | 3.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1524.7  | 3.8       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 377.6   | 0.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 5.0     | 0.0       |                         |      | G0/10   |
| 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 Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9796.1  | 9796.1  | 9796.1  | 9796.1  | 9796.1  | 9796.1  | 9796.1  | 9796.1  | 9796.1  | 9796.1  |
| 2.5°  | 12154.9 | 12002.0 | 11979.5 | 11949.4 | 11658.6 | 11440.5 | 11124.7 | 10778.8 | 10390.2 | 9994.2  |
| 5°    | 14042.5 | 13922.1 | 13899.6 | 13759.2 | 13428.3 | 13057.3 | 12495.8 | 11786.4 | 11062.0 | 10209.7 |
| 7.5°  | 14408.4 | 14385.9 | 14488.6 | 14483.6 | 14438.5 | 14145.2 | 13671.5 | 12826.7 | 11738.8 | 10475.4 |
| 10°   | 12776.6 | 12834.2 | 13140.0 | 13408.3 | 14132.7 | 14553.8 | 14451.0 | 13754.2 | 12435.7 | 10778.8 |
| 12.5° | 11290.1 | 11222.4 | 11440.5 | 11743.8 | 12586.1 | 13839.4 | 14774.4 | 14528.8 | 13232.8 | 11122.2 |
| 15°   | 10357.6 | 10330.1 | 10452.9 | 10593.3 | 11235.0 | 12498.3 | 14398.4 | 15157.9 | 13999.8 | 11528.3 |
| 17.5° | 10059.3 | 10036.8 | 10074.4 | 10109.5 | 10525.6 | 11503.2 | 13503.5 | 15544.0 | 14734.3 | 11992.0 |
| 20°   | 10302.5 | 10272.4 | 10267.4 | 10239.8 | 10412.8 | 11079.6 | 12693.9 | 15571.5 | 15393.6 | 12413.1 |
| 22.5° | 11011.9 | 10976.8 | 10854.0 | 10743.7 | 10758.7 | 11137.2 | 12332.9 | 15295.8 | 15889.9 | 12806.7 |
| 25°   | 12297.8 | 12240.1 | 11984.5 | 11613.5 | 11377.8 | 11538.3 | 12388.0 | 14932.3 | 16363.6 | 13115.0 |
| 27.5° | 13907.1 | 13831.9 | 13503.5 | 12952.0 | 12413.1 | 12217.6 | 12786.6 | 14681.7 | 16757.2 | 13350.6 |
| 30°   | 15483.8 | 15386.0 | 15062.7 | 14634.0 | 13846.9 | 13230.3 | 13506.0 | 14792.0 | 17225.9 | 13596.3 |
| 32.5° | 17185.8 | 17093.1 | 16664.5 | 16133.0 | 15481.3 | 14651.6 | 14491.2 | 15330.9 | 17800.0 | 13939.7 |
| 35°   | 19339.1 | 19193.7 | 18584.6 | 17860.1 | 17168.3 | 16328.6 | 15824.7 | 16260.9 | 18564.5 | 14463.6 |
| 37.5° | 21790.6 | 21595.1 | 20938.4 | 19938.2 | 19035.8 | 18095.8 | 17449.0 | 17539.3 | 19685.0 | 15165.5 |
| 40°   | 24101.8 | 23923.8 | 23317.2 | 22374.7 | 21241.7 | 20101.1 | 19411.8 | 19211.2 | 21231.6 | 16020.2 |
| 42.5° | 25488.0 | 25327.6 | 25071.9 | 24673.3 | 23718.3 | 22555.2 | 21685.3 | 21251.7 | 23061.5 | 17043.0 |
| 45°   | 25565.7 | 25425.3 | 25768.7 | 26232.5 | 26044.5 | 25269.9 | 24209.6 | 23415.0 | 24898.9 | 18003.0 |
| 47.5° | 24322.4 | 24227.1 | 25269.9 | 26889.2 | 27696.4 | 28022.2 | 27044.6 | 25397.7 | 26415.5 | 18692.4 |
| 50°   | 20933.3 | 20898.2 | 23044.0 | 26016.9 | 28325.6 | 30433.7 | 30035.1 | 27242.7 | 27591.1 | 19048.3 |
| 52.5° | 18150.9 | 18023.1 | 19273.9 | 23224.4 | 27410.6 | 31702.1 | 32957.9 | 29052.5 | 28413.3 | 19116.0 |
| 55°   | 13766.7 | 13653.9 | 15223.1 | 18552.0 | 24460.2 | 31250.9 | 35096.1 | 30920.0 | 29002.4 | 18943.0 |
| 57.5° | 7384.7  | 7314.5  | 9297.3  | 12347.9 | 19121.0 | 28543.6 | 35482.1 | 32895.2 | 29498.7 | 18484.3 |
| 60°   | 2875.2  | 2862.6  | 3604.6  | 5991.0  | 11621.0 | 23221.9 | 33534.4 | 34080.9 | 29809.5 | 17920.3 |
| 62.5° | 1739.6  | 1777.2  | 1897.6  | 2689.7  | 5133.7  | 14426.0 | 29045.0 | 32732.3 | 30017.6 | 17403.9 |
| 65°   | 1438.8  | 1441.3  | 1456.4  | 1847.4  | 2459.1  | 6036.1  | 21865.8 | 28295.5 | 29503.7 | 16484.0 |
| 67.5° | 1233.3  | 1255.8  | 1313.5  | 1466.4  | 1734.6  | 2647.1  | 12588.6 | 21918.5 | 26377.9 | 14343.3 |
| 70°   | 972.6   | 1002.7  | 1075.4  | 1205.7  | 1338.6  | 1656.9  | 4652.4  | 14583.9 | 20151.3 | 10811.3 |
| 72.5° | 819.7   | 817.2   | 854.8   | 980.1   | 1062.8  | 1165.6  | 1789.8  | 8171.8  | 11711.2 | 5161.3  |
| 75°   | 634.2   | 659.3   | 706.9   | 819.7   | 869.8   | 844.8   | 970.1   | 2985.5  | 4196.2  | 1564.2  |
| 77.5° | 496.3   | 516.4   | 559.0   | 669.3   | 719.4   | 599.1   | 559.0   | 1067.8  | 1348.6  | 561.5   |
| 80°   | 223.1   | 240.6   | 381.0   | 493.8   | 586.6   | 413.6   | 303.3   | 546.5   | 599.1   | 255.7   |
| 82.5° | 40.1    | 67.7    | 223.1   | 260.7   | 300.8   | 268.2   | 157.9   | 283.3   | 293.3   | 102.8   |
| 85°   | 2.5     | 5.0     | 77.7    | 95.3    | 120.3   | 87.7    | 47.6    | 112.8   | 97.8    | 35.1    |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.5     | 2.5     | 12.5    | 15.0    | 20.1    | 15.0    | 12.5    |
| 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):**

| 90°     |       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9796.1  | 0°    | 9796.1 | 9796.1 | 9796.1 | 9796.1 | 9796.1 | 9796.1 | 9796.1 | 9796.1 | 9796.1 | 9796.1 |
| 9818.7  | 2.5°  | 9638.2 | 9282.3 | 8936.3 | 8653.1 | 8487.6 | 8206.9 | 8021.4 | 7991.3 | 7913.6 | 7981.3 |
| 9843.8  | 5°    | 9452.7 | 8816.0 | 8171.8 | 7595.3 | 7121.5 | 6509.9 | 6053.6 | 5860.6 | 5692.7 | 5750.3 |
| 9908.9  | 7.5°  | 9365.0 | 8359.8 | 7357.1 | 6372.0 | 5359.3 | 4381.7 | 3654.7 | 3351.4 | 3120.8 | 3153.4 |
| 9981.6  | 10°   | 9247.2 | 7886.0 | 6314.3 | 4810.3 | 3454.2 | 2489.1 | 1987.8 | 1802.3 | 1699.5 | 1702.0 |
| 10089.4 | 12.5° | 9156.9 | 7319.5 | 5103.6 | 3261.2 | 2103.1 | 1589.2 | 1433.8 | 1388.7 | 1358.6 | 1361.1 |
| 10252.3 | 15°   | 9111.8 | 6652.7 | 3907.9 | 2173.3 | 1504.0 | 1346.1 | 1308.5 | 1288.4 | 1268.4 | 1265.9 |
| 10432.8 | 17.5° | 9036.6 | 5910.8 | 2860.1 | 1586.7 | 1316.0 | 1260.9 | 1228.3 | 1205.7 | 1180.6 | 1175.6 |
| 10588.2 | 20°   | 8923.8 | 5068.5 | 2090.6 | 1341.1 | 1233.3 | 1190.7 | 1145.6 | 1115.5 | 1085.4 | 1080.4 |
| 10686.0 | 22.5° | 8715.7 | 4178.6 | 1606.8 | 1240.8 | 1173.1 | 1125.5 | 1070.4 | 1035.3 | 1005.2 | 1000.2 |
| 10638.4 | 25°   | 8329.7 | 3343.9 | 1353.6 | 1178.1 | 1120.5 | 1062.8 | 1002.7 | 955.0  | 927.5  | 922.5  |
| 10535.6 | 27.5° | 7840.9 | 2627.0 | 1228.3 | 1120.5 | 1052.8 | 1000.2 | 932.5  | 887.4  | 862.3  | 857.3  |
| 10400.2 | 30°   | 7264.4 | 2022.9 | 1155.6 | 1055.3 | 972.6  | 927.5  | 867.3  | 829.7  | 814.7  | 814.7  |
| 10305.0 | 32.5° | 6642.7 | 1616.8 | 1125.5 | 990.1  | 902.4  | 852.3  | 804.6  | 789.6  | 784.6  | 782.1  |
| 10357.6 | 35°   | 6058.7 | 1403.7 | 1110.5 | 937.5  | 839.7  | 792.1  | 772.1  | 774.6  | 784.6  | 784.6  |
| 10520.6 | 37.5° | 5539.8 | 1336.1 | 1102.9 | 899.9  | 784.6  | 742.0  | 754.5  | 777.1  | 767.0  | 767.0  |
| 10806.3 | 40°   | 5071.0 | 1343.6 | 1097.9 | 872.3  | 739.5  | 714.4  | 739.5  | 721.9  | 696.9  | 694.4  |
| 11154.8 | 42.5° | 4712.6 | 1406.3 | 1087.9 | 849.8  | 711.9  | 694.4  | 684.3  | 656.8  | 654.2  | 659.3  |
| 11515.7 | 45°   | 4451.9 | 1461.4 | 1085.4 | 839.7  | 681.8  | 649.2  | 636.7  | 609.1  | 659.3  | 671.8  |
| 11663.6 | 47.5° | 4143.6 | 1461.4 | 1085.4 | 804.6  | 631.7  | 619.2  | 599.1  | 569.0  | 619.2  | 631.7  |
| 11523.2 | 50°   | 3745.0 | 1368.7 | 1042.8 | 764.5  | 591.6  | 584.1  | 549.0  | 511.4  | 501.3  | 508.9  |
| 11194.9 | 52.5° | 3241.1 | 1200.7 | 935.0  | 709.4  | 551.5  | 536.4  | 493.8  | 466.2  | 458.7  | 458.7  |
| 10605.8 | 55°   | 2667.1 | 1005.2 | 789.6  | 629.2  | 508.9  | 481.3  | 451.2  | 438.7  | 431.2  | 426.1  |
| 9781.1  | 57.5° | 2168.3 | 824.7  | 634.2  | 559.0  | 468.8  | 433.7  | 423.6  | 408.6  | 396.1  | 388.5  |
| 9091.8  | 60°   | 1779.7 | 649.2  | 523.9  | 496.3  | 428.6  | 396.1  | 393.5  | 373.5  | 340.9  | 335.9  |
| 8522.7  | 62.5° | 1373.7 | 476.3  | 441.2  | 431.2  | 388.5  | 361.0  | 355.9  | 315.8  | 265.7  | 255.7  |
| 7715.6  | 65°   | 970.1  | 371.0  | 355.9  | 378.5  | 345.9  | 320.9  | 308.3  | 248.2  | 195.5  | 188.0  |
| 6457.2  | 67.5° | 681.8  | 310.8  | 280.7  | 330.9  | 300.8  | 268.2  | 260.7  | 210.6  | 162.9  | 157.9  |
| 4883.0  | 70°   | 486.3  | 253.2  | 230.6  | 283.3  | 240.6  | 235.6  | 220.6  | 175.5  | 132.9  | 127.8  |
| 2416.4  | 72.5° | 343.4  | 193.0  | 178.0  | 245.7  | 165.4  | 203.0  | 180.5  | 135.4  | 100.3  | 95.3   |
| 822.2   | 75°   | 253.2  | 137.9  | 125.3  | 142.9  | 120.3  | 152.9  | 127.8  | 90.2   | 62.7   | 60.2   |
| 371.0   | 77.5° | 185.5  | 87.7   | 75.2   | 70.2   | 70.2   | 95.3   | 70.2   | 37.6   | 27.6   | 25.1   |
| 188.0   | 80°   | 130.3  | 40.1   | 35.1   | 30.1   | 27.6   | 22.6   | 10.0   | 5.0    | 2.5    | 2.5    |
| 65.2    | 82.5° | 77.7   | 17.5   | 17.5   | 12.5   | 7.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 25.1    | 85°   | 17.5   | 7.5    | 7.5    | 2.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 10.0    | 87.5° | 2.5    | 2.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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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