

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: P947478

Luminaire Tested: **GLAN-SB2D-827-U-AFL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P947478  
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-SB2D-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 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: 15088 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 147.6  
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



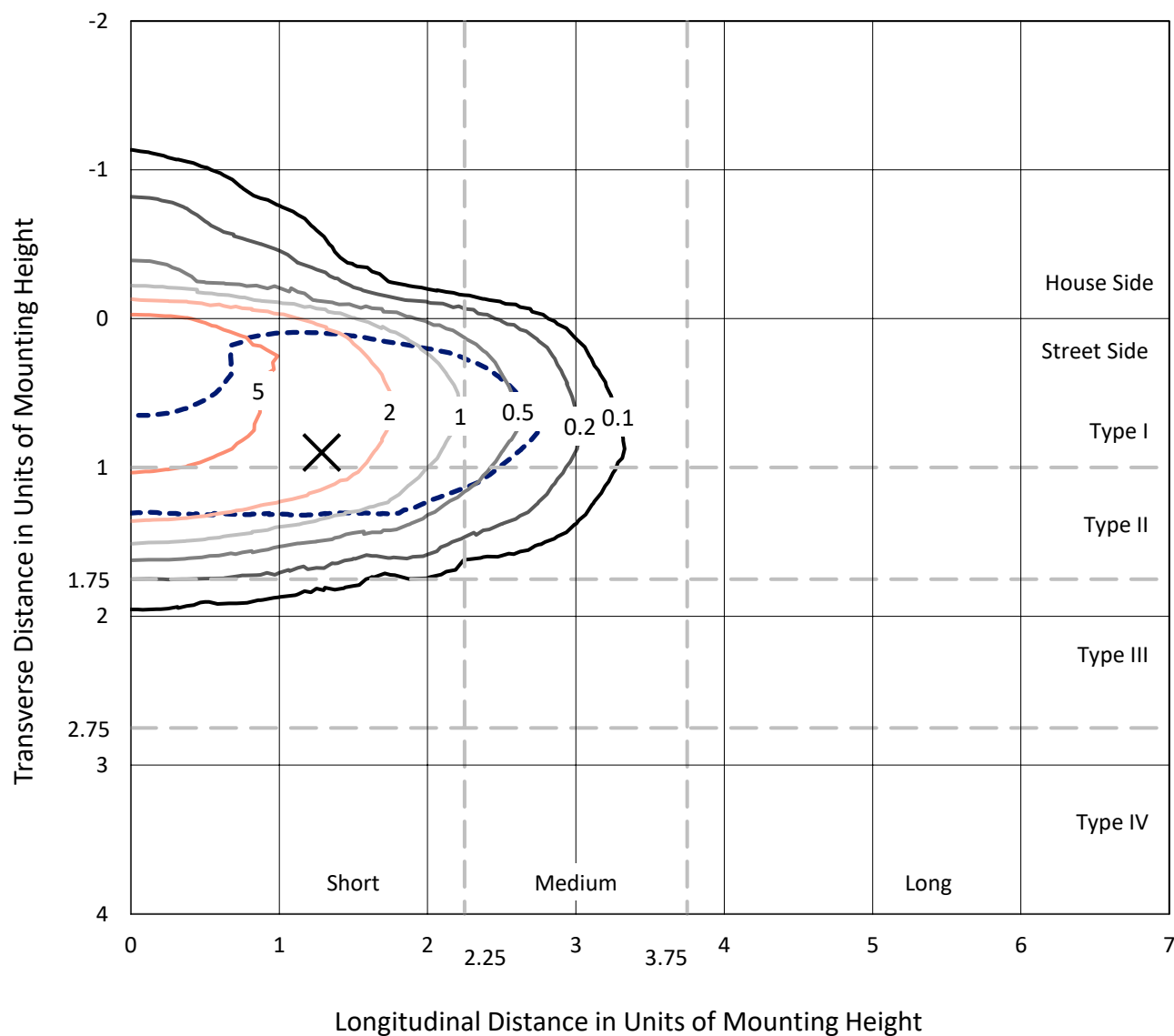
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

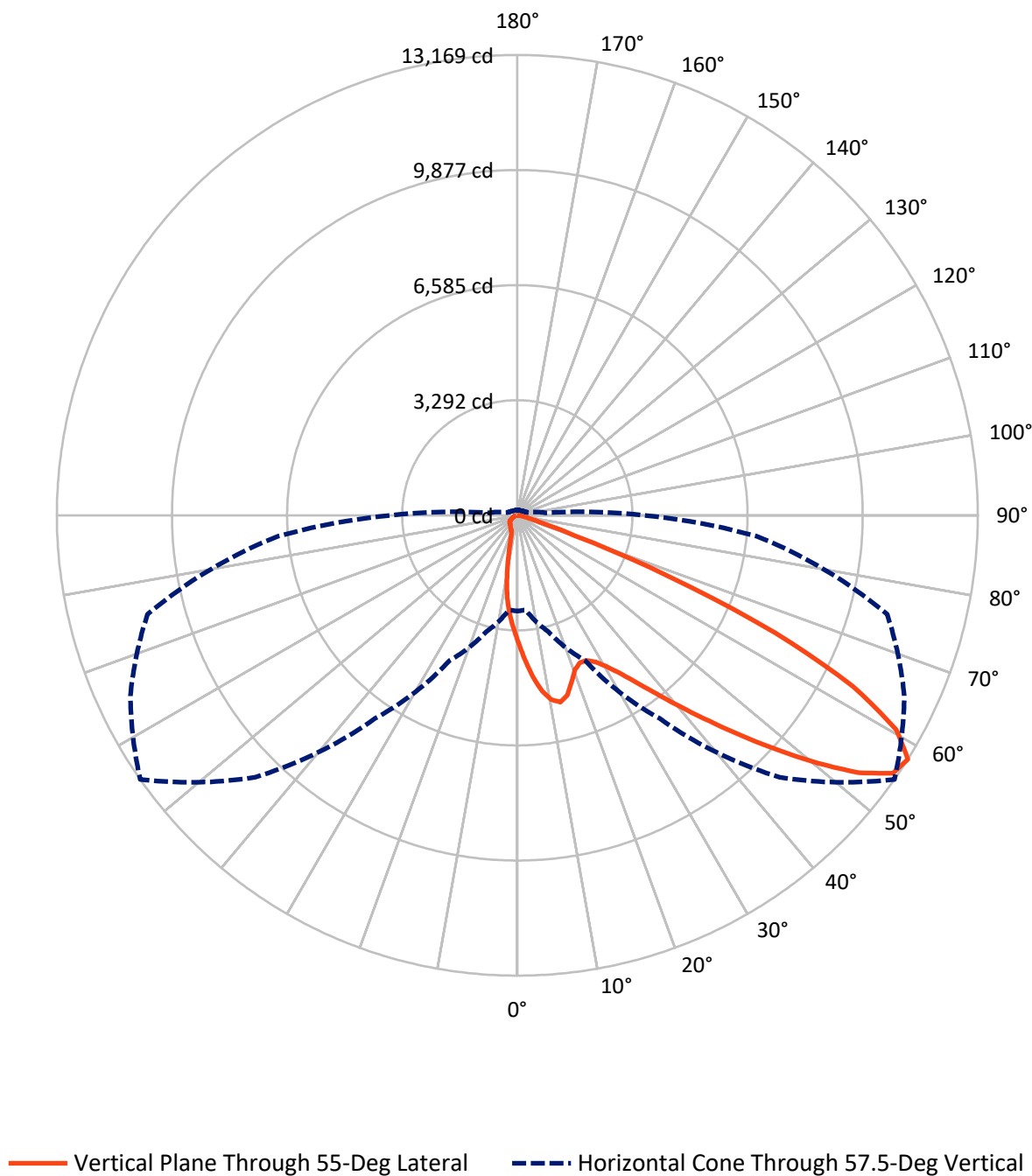


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc

Type II - Short - N/A

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## Luminous Intensity Polar Plot



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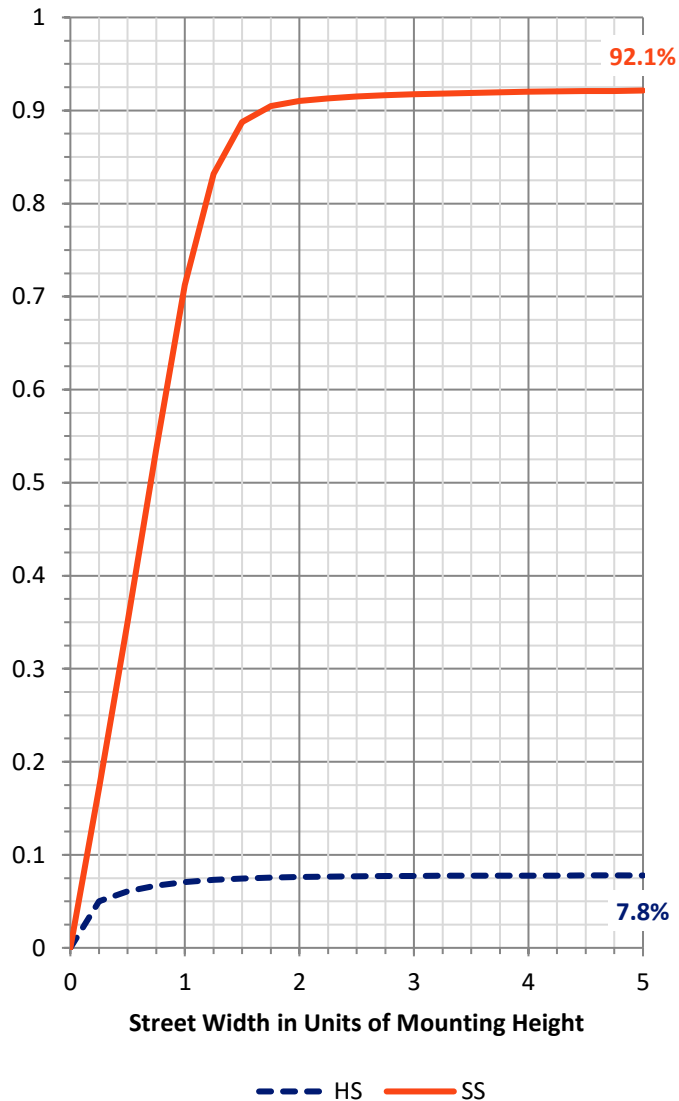
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1178.3   | 0.0    | 1178.3  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 13909.7  | 0.0    | 13909.7 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 15088.0  | 0.0    | 15088.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 338.3   | 2.2       |
| 10°-20°   | 817.2   | 5.4       |
| 20°-30°   | 1307.4  | 8.7       |
| 30°-40°   | 2212.9  | 14.7      |
| 40°-50°   | 3633.1  | 24.1      |
| 50°-60°   | 3993.1  | 26.5      |
| 60°-70°   | 2290.4  | 15.2      |
| 70°-80°   | 468.0   | 3.1       |
| 80°-90°   | 27.6    | 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°    | 15088.0 | 100.0     |
| 0°-180°   | 15088.0 | 100.0     |

**Coefficient of Utilization**



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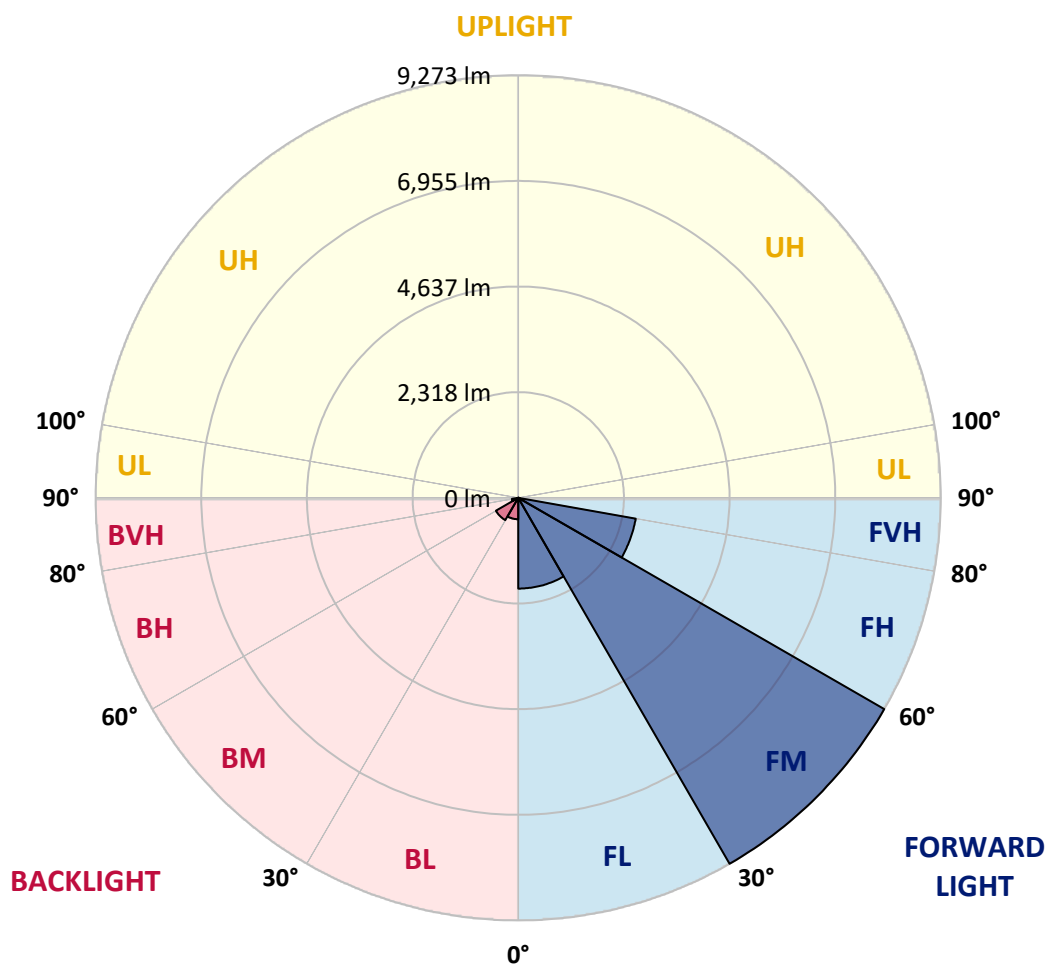
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1992.5 | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 9273.2 | 61.5      |                         |      |         |
| FH   | (60°-80°)   | 2618.3 | 17.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 25.7   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 470.4  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 565.9  | 3.8       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 140.1  | 0.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.9    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0°    | 3635.8 | 3635.8 | 3635.8 | 3635.8 | 3635.8  | 3635.8  | 3635.8  | 3635.8  | 3635.8  | 3635.8 |
| 2.5°  | 4511.3 | 4454.6 | 4446.2 | 4435.0 | 4327.1  | 4246.2  | 4128.9  | 4000.5  | 3856.3  | 3709.3 |
| 5°    | 5211.9 | 5167.2 | 5158.8 | 5106.7 | 4983.9  | 4846.2  | 4637.8  | 4374.5  | 4105.7  | 3789.3 |
| 7.5°  | 5347.7 | 5339.3 | 5377.5 | 5375.6 | 5358.9  | 5250.0  | 5074.2  | 4760.6  | 4356.9  | 3888.0 |
| 10°   | 4742.0 | 4763.4 | 4876.9 | 4976.5 | 5245.4  | 5401.7  | 5363.5  | 5104.9  | 4615.5  | 4000.5 |
| 12.5° | 4190.3 | 4165.2 | 4246.2 | 4358.7 | 4671.3  | 5136.5  | 5483.5  | 5392.4  | 4911.4  | 4128.0 |
| 15°   | 3844.2 | 3834.0 | 3879.6 | 3931.7 | 4169.9  | 4638.8  | 5344.0  | 5625.9  | 5196.0  | 4278.7 |
| 17.5° | 3733.5 | 3725.2 | 3739.1 | 3752.1 | 3906.6  | 4269.4  | 5011.8  | 5769.1  | 5468.6  | 4450.8 |
| 20°   | 3823.8 | 3812.6 | 3810.7 | 3800.5 | 3864.7  | 4112.2  | 4711.3  | 5779.4  | 5713.3  | 4607.1 |
| 22.5° | 4087.1 | 4074.0 | 4028.4 | 3987.5 | 3993.1  | 4133.6  | 4577.4  | 5677.0  | 5897.5  | 4753.2 |
| 25°   | 4564.3 | 4542.9 | 4448.0 | 4310.3 | 4222.9  | 4282.4  | 4597.8  | 5542.1  | 6073.4  | 4867.6 |
| 27.5° | 5161.6 | 5133.7 | 5011.8 | 4807.2 | 4607.1  | 4534.6  | 4745.8  | 5449.1  | 6219.4  | 4955.1 |
| 30°   | 5746.8 | 5710.5 | 5590.5 | 5431.4 | 5139.3  | 4910.4  | 5012.8  | 5490.0  | 6393.4  | 5046.3 |
| 32.5° | 6378.5 | 6344.1 | 6185.0 | 5987.8 | 5745.9  | 5437.9  | 5378.4  | 5690.1  | 6606.5  | 5173.7 |
| 35°   | 7177.7 | 7123.7 | 6897.7 | 6628.8 | 6372.0  | 6060.3  | 5873.3  | 6035.2  | 6890.2  | 5368.2 |
| 37.5° | 8087.6 | 8015.0 | 7771.3 | 7400.1 | 7065.1  | 6716.2  | 6476.2  | 6509.7  | 7306.1  | 5628.7 |
| 40°   | 8945.4 | 8879.3 | 8654.2 | 8304.4 | 7883.8  | 7460.5  | 7204.7  | 7130.3  | 7880.1  | 5945.9 |
| 42.5° | 9459.9 | 9400.3 | 9305.4 | 9157.5 | 8803.0  | 8371.4  | 8048.5  | 7887.6  | 8559.3  | 6325.5 |
| 45°   | 9488.7 | 9436.6 | 9564.1 | 9736.2 | 9666.4  | 9378.9  | 8985.4  | 8690.5  | 9241.2  | 6681.8 |
| 47.5° | 9027.3 | 8991.9 | 9378.9 | 9979.9 | 10279.5 | 10400.5 | 10037.6 | 9426.4  | 9804.1  | 6937.7 |
| 50°   | 7769.4 | 7756.4 | 8552.8 | 9656.2 | 10513.0 | 11295.5 | 11147.5 | 10111.1 | 10240.4 | 7069.8 |
| 52.5° | 6736.7 | 6689.3 | 7153.5 | 8619.8 | 10173.5 | 11766.2 | 12232.3 | 10782.8 | 10545.6 | 7094.9 |
| 55°   | 5109.5 | 5067.7 | 5650.1 | 6885.6 | 9078.4  | 11598.8 | 13025.9 | 11476.0 | 10764.2 | 7030.7 |
| 57.5° | 2740.8 | 2714.8 | 3450.7 | 4582.9 | 7096.8  | 10594.0 | 13169.2 | 12209.1 | 10948.4 | 6860.5 |
| 60°   | 1067.1 | 1062.5 | 1337.9 | 2223.6 | 4313.1  | 8618.8  | 12446.3 | 12649.1 | 11063.8 | 6651.1 |
| 62.5° | 645.7  | 659.6  | 704.3  | 998.3  | 1905.4  | 5354.2  | 10780.0 | 12148.6 | 11141.0 | 6459.5 |
| 65°   | 534.0  | 535.0  | 540.5  | 685.7  | 912.7   | 2240.3  | 8115.5  | 10501.9 | 10950.3 | 6118.0 |
| 67.5° | 457.7  | 466.1  | 487.5  | 544.3  | 643.8   | 982.5   | 4672.3  | 8135.0  | 9790.1  | 5323.5 |
| 70°   | 361.0  | 372.1  | 399.1  | 447.5  | 496.8   | 615.0   | 1726.7  | 5412.8  | 7479.1  | 4012.6 |
| 72.5° | 304.2  | 303.3  | 317.3  | 363.8  | 394.5   | 432.6   | 664.3   | 3033.0  | 4346.6  | 1915.6 |
| 75°   | 235.4  | 244.7  | 262.4  | 304.2  | 322.8   | 313.5   | 360.0   | 1108.1  | 1557.4  | 580.5  |
| 77.5° | 184.2  | 191.7  | 207.5  | 248.4  | 267.0   | 222.4   | 207.5   | 396.3   | 500.5   | 208.4  |
| 80°   | 82.8   | 89.3   | 141.4  | 183.3  | 217.7   | 153.5   | 112.6   | 202.8   | 222.4   | 94.9   |
| 82.5° | 14.9   | 25.1   | 82.8   | 96.8   | 111.6   | 99.5    | 58.6    | 105.1   | 108.9   | 38.1   |
| 85°   | 0.9    | 1.9    | 28.8   | 35.4   | 44.7    | 32.6    | 17.7    | 41.9    | 36.3    | 13.0   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.9    | 0.9     | 4.7     | 5.6     | 7.4     | 5.6     | 4.7    |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3635.8 | 0°    | 3635.8 | 3635.8 | 3635.8 | 3635.8 | 3635.8 | 3635.8 | 3635.8 | 3635.8 | 3635.8 | 3635.8 |
| 3644.2 | 2.5°  | 3577.2 | 3445.1 | 3316.7 | 3211.6 | 3150.2 | 3046.0 | 2977.1 | 2966.0 | 2937.1 | 2962.3 |
| 3653.5 | 5°    | 3508.4 | 3272.1 | 3033.0 | 2819.0 | 2643.1 | 2416.1 | 2246.8 | 2175.2 | 2112.8 | 2134.2 |
| 3677.7 | 7.5°  | 3475.8 | 3102.7 | 2730.6 | 2365.0 | 1989.1 | 1626.3 | 1356.5 | 1243.9 | 1158.3 | 1170.4 |
| 3704.7 | 10°   | 3432.1 | 2926.9 | 2343.6 | 1785.4 | 1282.0 | 923.8  | 737.8  | 668.9  | 630.8  | 631.7  |
| 3744.7 | 12.5° | 3398.6 | 2716.6 | 1894.2 | 1210.4 | 780.6  | 589.8  | 532.2  | 515.4  | 504.3  | 505.2  |
| 3805.2 | 15°   | 3381.8 | 2469.2 | 1450.4 | 806.6  | 558.2  | 499.6  | 485.6  | 478.2  | 470.8  | 469.8  |
| 3872.1 | 17.5° | 3353.9 | 2193.8 | 1061.5 | 588.9  | 488.4  | 468.0  | 455.9  | 447.5  | 438.2  | 436.3  |
| 3929.8 | 20°   | 3312.1 | 1881.2 | 775.9  | 497.7  | 457.7  | 441.9  | 425.2  | 414.0  | 402.8  | 401.0  |
| 3966.1 | 22.5° | 3234.9 | 1550.9 | 596.4  | 460.5  | 435.4  | 417.7  | 397.3  | 384.2  | 373.1  | 371.2  |
| 3948.4 | 25°   | 3091.6 | 1241.1 | 502.4  | 437.3  | 415.9  | 394.5  | 372.1  | 354.5  | 344.2  | 342.4  |
| 3910.3 | 27.5° | 2910.2 | 975.0  | 455.9  | 415.9  | 390.8  | 371.2  | 346.1  | 329.3  | 320.0  | 318.2  |
| 3860.1 | 30°   | 2696.2 | 750.8  | 428.9  | 391.7  | 361.0  | 344.2  | 321.9  | 307.9  | 302.4  | 302.4  |
| 3824.7 | 32.5° | 2465.4 | 600.1  | 417.7  | 367.5  | 334.9  | 316.3  | 298.6  | 293.1  | 291.2  | 290.3  |
| 3844.2 | 35°   | 2248.7 | 521.0  | 412.1  | 348.0  | 311.7  | 294.0  | 286.6  | 287.5  | 291.2  | 291.2  |
| 3904.7 | 37.5° | 2056.1 | 495.9  | 409.4  | 334.0  | 291.2  | 275.4  | 280.0  | 288.4  | 284.7  | 284.7  |
| 4010.8 | 40°   | 1882.1 | 498.7  | 407.5  | 323.8  | 274.5  | 265.2  | 274.5  | 267.9  | 258.6  | 257.7  |
| 4140.1 | 42.5° | 1749.1 | 521.9  | 403.8  | 315.4  | 264.2  | 257.7  | 254.0  | 243.8  | 242.8  | 244.7  |
| 4274.1 | 45°   | 1652.3 | 542.4  | 402.8  | 311.7  | 253.1  | 241.0  | 236.3  | 226.1  | 244.7  | 249.3  |
| 4329.0 | 47.5° | 1537.9 | 542.4  | 402.8  | 298.6  | 234.5  | 229.8  | 222.4  | 211.2  | 229.8  | 234.5  |
| 4276.9 | 50°   | 1390.0 | 508.0  | 387.0  | 283.8  | 219.6  | 216.8  | 203.7  | 189.8  | 186.1  | 188.9  |
| 4155.0 | 52.5° | 1203.0 | 445.6  | 347.0  | 263.3  | 204.7  | 199.1  | 183.3  | 173.0  | 170.3  | 170.3  |
| 3936.3 | 55°   | 989.9  | 373.1  | 293.1  | 233.5  | 188.9  | 178.6  | 167.5  | 162.8  | 160.0  | 158.2  |
| 3630.3 | 57.5° | 804.8  | 306.1  | 235.4  | 207.5  | 174.0  | 161.0  | 157.2  | 151.6  | 147.0  | 144.2  |
| 3374.4 | 60°   | 660.6  | 241.0  | 194.4  | 184.2  | 159.1  | 147.0  | 146.1  | 138.6  | 126.5  | 124.7  |
| 3163.2 | 62.5° | 509.8  | 176.8  | 163.7  | 160.0  | 144.2  | 134.0  | 132.1  | 117.2  | 98.6   | 94.9   |
| 2863.6 | 65°   | 360.0  | 137.7  | 132.1  | 140.5  | 128.4  | 119.1  | 114.4  | 92.1   | 72.6   | 69.8   |
| 2396.6 | 67.5° | 253.1  | 115.4  | 104.2  | 122.8  | 111.6  | 99.5   | 96.8   | 78.2   | 60.5   | 58.6   |
| 1812.3 | 70°   | 180.5  | 94.0   | 85.6   | 105.1  | 89.3   | 87.5   | 81.9   | 65.1   | 49.3   | 47.4   |
| 896.9  | 72.5° | 127.5  | 71.6   | 66.1   | 91.2   | 61.4   | 75.4   | 67.0   | 50.2   | 37.2   | 35.4   |
| 305.2  | 75°   | 94.0   | 51.2   | 46.5   | 53.0   | 44.7   | 56.8   | 47.4   | 33.5   | 23.3   | 22.3   |
| 137.7  | 77.5° | 68.8   | 32.6   | 27.9   | 26.1   | 26.1   | 35.4   | 26.1   | 14.0   | 10.2   | 9.3    |
| 69.8   | 80°   | 48.4   | 14.9   | 13.0   | 11.2   | 10.2   | 8.4    | 3.7    | 1.9    | 0.9    | 0.9    |
| 24.2   | 82.5° | 28.8   | 6.5    | 6.5    | 4.7    | 2.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 9.3    | 85°   | 6.5    | 2.8    | 2.8    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 3.7    | 87.5° | 0.9    | 0.9    | 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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