

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: P950166

Luminaire Tested: **GLAN-SB4C-950-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950166  
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-SB4C-950-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 5000K, 615mA 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: 17803 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 200.7  
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



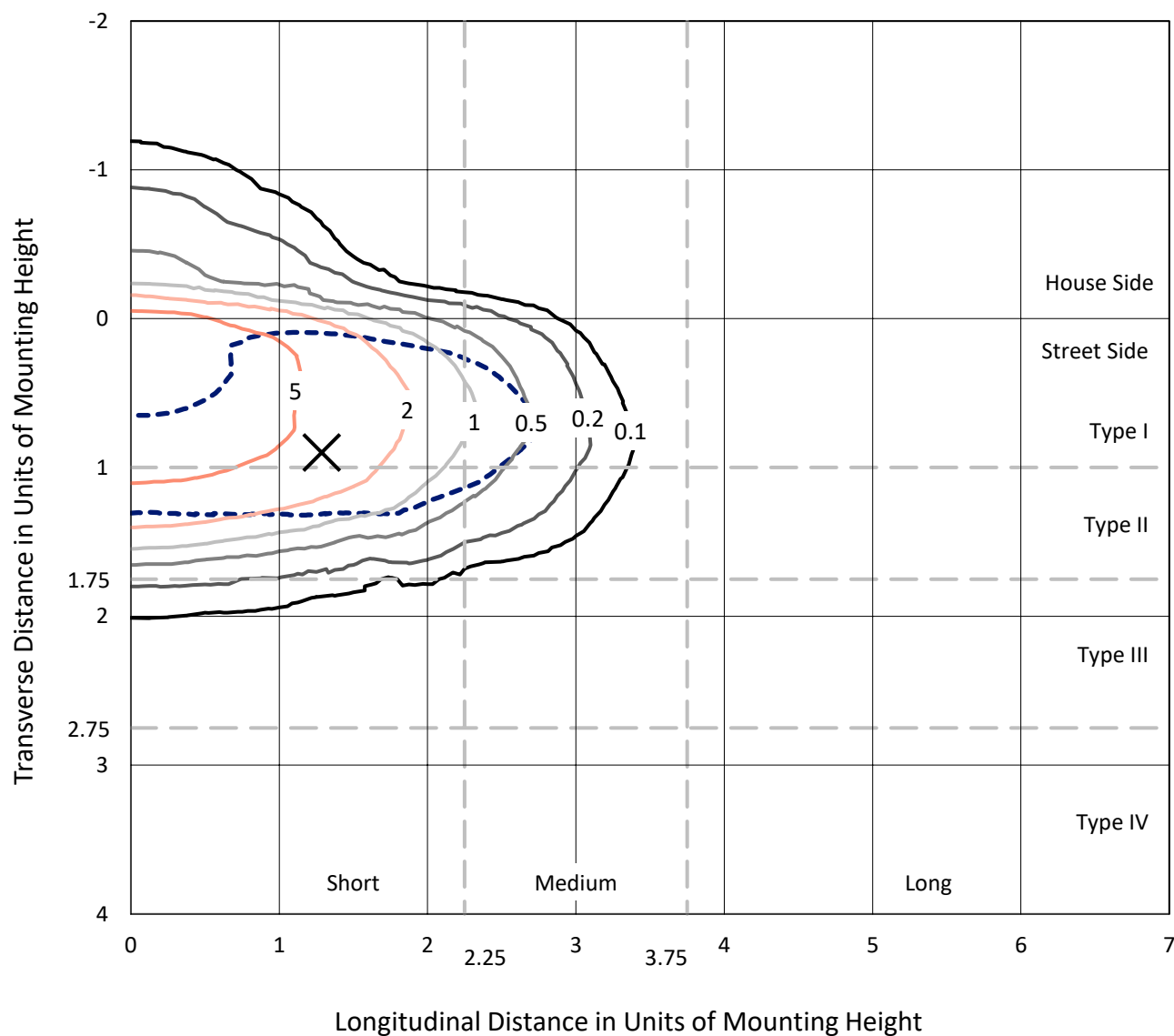
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

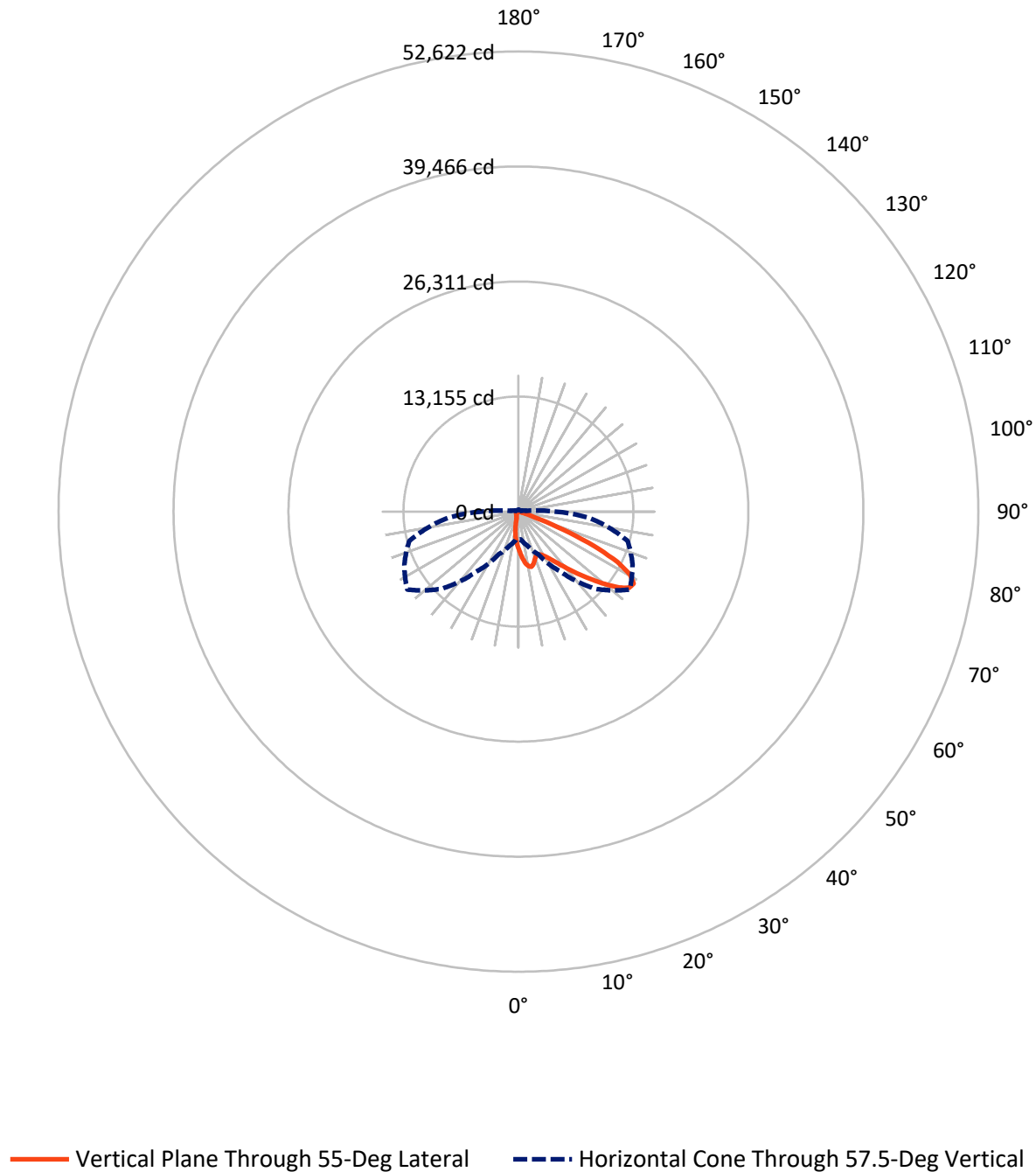


Based on 25 foot mounting height. Maximum calculated value = 9.8 fc

Type II - Short - N/A

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## Luminous Intensity Polar Plot



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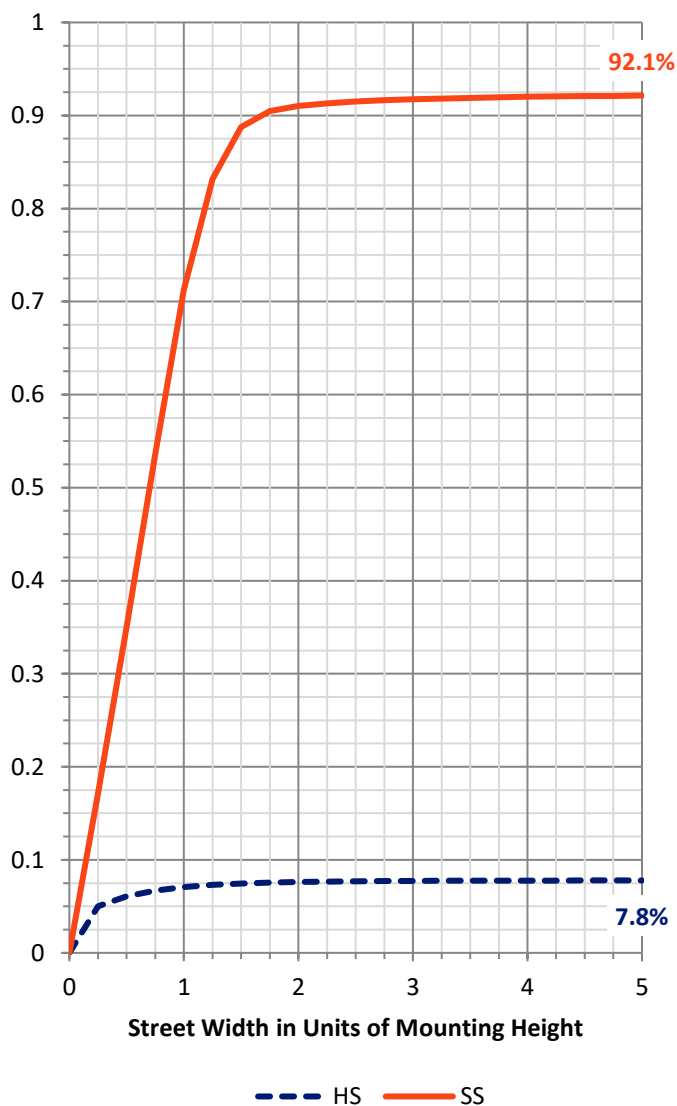
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1390.3   | 0.0    | 1390.3  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 16412.7  | 0.0    | 16412.7 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 17803.0  | 0.0    | 17803.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 399.2   | 2.2       |
| 10°-20°   | 964.2   | 5.4       |
| 20°-30°   | 1542.7  | 8.7       |
| 30°-40°   | 2611.1  | 14.7      |
| 40°-50°   | 4286.9  | 24.1      |
| 50°-60°   | 4711.6  | 26.5      |
| 60°-70°   | 2702.6  | 15.2      |
| 70°-80°   | 552.2   | 3.1       |
| 80°-90°   | 32.6    | 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°    | 17803.0 | 100.0     |
| 0°-180°   | 17803.0 | 100.0     |

**Coefficient of Utilization**



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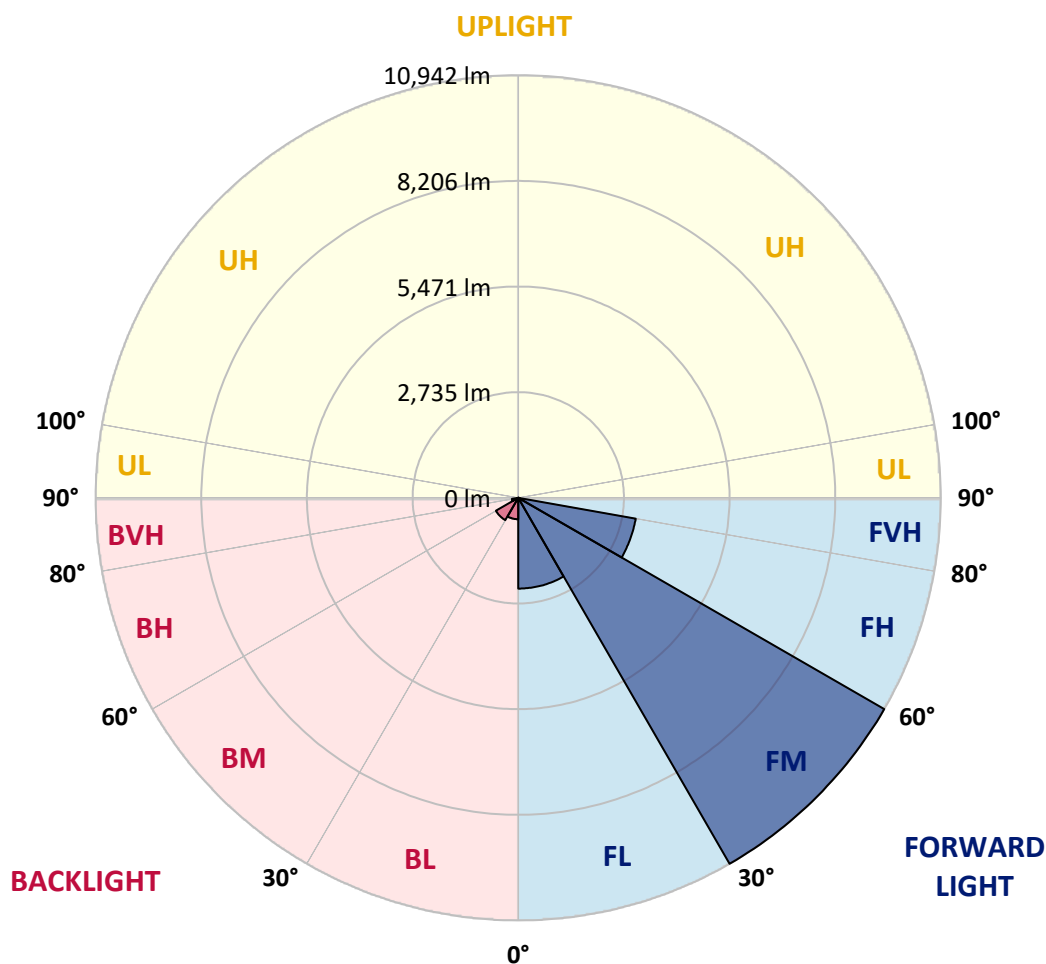
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2351.0  | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 10941.9 | 61.5      |                         |      |         |
| FH   | (60°-80°)   | 3089.4  | 17.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 30.4    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 555.1   | 3.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 667.7   | 3.8       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 165.4   | 0.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.2     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 4290.1  | 4290.1  | 4290.1  | 4290.1  | 4290.1  | 4290.1  | 4290.1  | 4290.1  | 4290.1  | 4290.1 |
| 2.5°  | 5323.1  | 5256.1  | 5246.2  | 5233.1  | 5105.7  | 5010.2  | 4871.9  | 4720.4  | 4550.3  | 4376.8 |
| 5°    | 6149.7  | 6097.0  | 6087.1  | 6025.7  | 5880.8  | 5718.3  | 5472.4  | 5161.7  | 4844.5  | 4471.2 |
| 7.5°  | 6310.0  | 6300.1  | 6345.1  | 6342.9  | 6323.2  | 6194.7  | 5987.2  | 5617.3  | 5140.9  | 4587.6 |
| 10°   | 5595.3  | 5620.6  | 5754.5  | 5872.0  | 6189.2  | 6373.7  | 6328.6  | 6023.5  | 5446.0  | 4720.4 |
| 12.5° | 4944.4  | 4914.7  | 5010.2  | 5143.1  | 5511.9  | 6060.8  | 6470.3  | 6362.7  | 5795.1  | 4870.8 |
| 15°   | 4536.0  | 4523.9  | 4577.7  | 4639.2  | 4920.2  | 5473.5  | 6305.6  | 6638.2  | 6131.0  | 5048.6 |
| 17.5° | 4405.4  | 4395.5  | 4411.9  | 4427.3  | 4609.5  | 5037.7  | 5913.7  | 6807.3  | 6452.7  | 5251.7 |
| 20°   | 4511.8  | 4498.7  | 4496.5  | 4484.4  | 4560.1  | 4852.1  | 5559.1  | 6819.3  | 6741.4  | 5436.2 |
| 22.5° | 4822.5  | 4807.1  | 4753.3  | 4705.0  | 4711.6  | 4877.4  | 5401.0  | 6698.6  | 6958.8  | 5608.5 |
| 25°   | 5385.7  | 5360.4  | 5248.4  | 5086.0  | 4982.8  | 5053.0  | 5425.2  | 6539.4  | 7166.2  | 5743.5 |
| 27.5° | 6090.4  | 6057.5  | 5913.7  | 5672.2  | 5436.2  | 5350.5  | 5599.7  | 6429.6  | 7338.6  | 5846.7 |
| 30°   | 6780.9  | 6738.1  | 6596.5  | 6408.8  | 6064.1  | 5794.0  | 5914.8  | 6477.9  | 7543.9  | 5954.3 |
| 32.5° | 7526.3  | 7485.7  | 7298.0  | 7065.2  | 6779.8  | 6416.5  | 6346.2  | 6714.0  | 7795.3  | 6104.7 |
| 35°   | 8469.3  | 8405.6  | 8138.9  | 7821.6  | 7518.6  | 7150.9  | 6930.2  | 7121.2  | 8130.1  | 6334.1 |
| 37.5° | 9542.9  | 9457.3  | 9169.7  | 8731.7  | 8336.5  | 7924.8  | 7641.6  | 7681.1  | 8620.8  | 6641.5 |
| 40°   | 10555.1 | 10477.1 | 10211.5 | 9798.7  | 9302.5  | 8803.0  | 8501.1  | 8413.3  | 9298.1  | 7015.8 |
| 42.5° | 11162.1 | 11091.9 | 10979.9 | 10805.3 | 10387.1 | 9877.7  | 9496.8  | 9306.9  | 10099.5 | 7463.7 |
| 45°   | 11196.2 | 11134.7 | 11285.1 | 11488.2 | 11405.8 | 11066.6 | 10602.3 | 10254.3 | 10904.1 | 7884.2 |
| 47.5° | 10651.7 | 10609.9 | 11066.6 | 11775.8 | 12129.3 | 12272.0 | 11843.8 | 11122.6 | 11568.3 | 8186.1 |
| 50°   | 9167.5  | 9152.1  | 10091.8 | 11393.8 | 12404.8 | 13328.0 | 13153.5 | 11930.6 | 12083.2 | 8342.0 |
| 52.5° | 7949.0  | 7893.0  | 8440.8  | 10170.8 | 12004.1 | 13883.5 | 14433.5 | 12723.2 | 12443.2 | 8371.6 |
| 55°   | 6029.0  | 5979.6  | 6666.8  | 8124.6  | 10712.0 | 13685.9 | 15369.9 | 13541.0 | 12701.2 | 8295.8 |
| 57.5° | 3234.0  | 3203.3  | 4071.6  | 5407.6  | 8373.8  | 12500.3 | 15538.9 | 14406.0 | 12918.6 | 8095.0 |
| 60°   | 1259.1  | 1253.7  | 1578.6  | 2623.7  | 5089.3  | 10169.7 | 14686.0 | 14925.3 | 13054.7 | 7848.0 |
| 62.5° | 761.9   | 778.3   | 831.0   | 1177.9  | 2248.2  | 6317.7  | 12719.9 | 14334.7 | 13145.8 | 7621.8 |
| 65°   | 630.1   | 631.2   | 637.8   | 809.1   | 1076.9  | 2643.4  | 9575.8  | 12391.6 | 12920.8 | 7218.9 |
| 67.5° | 540.1   | 550.0   | 575.2   | 642.2   | 759.7   | 1159.2  | 5513.0  | 9598.9  | 11551.8 | 6281.4 |
| 70°   | 425.9   | 439.1   | 470.9   | 528.0   | 586.2   | 725.6   | 2037.5  | 6386.8  | 8825.0  | 4734.7 |
| 72.5° | 359.0   | 357.9   | 374.3   | 429.2   | 465.5   | 510.5   | 783.8   | 3578.7  | 5128.8  | 2260.3 |
| 75°   | 277.7   | 288.7   | 309.6   | 359.0   | 380.9   | 369.9   | 424.8   | 1307.4  | 1837.7  | 685.0  |
| 77.5° | 217.4   | 226.1   | 244.8   | 293.1   | 315.1   | 262.4   | 244.8   | 467.6   | 590.6   | 245.9  |
| 80°   | 97.7    | 105.4   | 166.9   | 216.3   | 256.9   | 181.1   | 132.8   | 239.3   | 262.4   | 112.0  |
| 82.5° | 17.6    | 29.6    | 97.7    | 114.2   | 131.7   | 117.5   | 69.2    | 124.0   | 128.4   | 45.0   |
| 85°   | 1.1     | 2.2     | 34.0    | 41.7    | 52.7    | 38.4    | 20.9    | 49.4    | 42.8    | 15.4   |
| 87.5° | 0.0     | 0.0     | 0.0     | 1.1     | 1.1     | 5.5     | 6.6     | 8.8     | 6.6     | 5.5    |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4290.1 | 0°    | 4290.1 | 4290.1 | 4290.1 | 4290.1 | 4290.1 | 4290.1 | 4290.1 | 4290.1 | 4290.1 | 4290.1 |
| 4300.0 | 2.5°  | 4220.9 | 4065.0 | 3913.5 | 3789.5 | 3717.0 | 3594.1 | 3512.9 | 3499.7 | 3465.7 | 3495.3 |
| 4310.9 | 5°    | 4139.7 | 3860.9 | 3578.7 | 3326.2 | 3118.8 | 2850.9 | 2651.1 | 2566.6 | 2493.0 | 2518.3 |
| 4339.5 | 7.5°  | 4101.3 | 3661.1 | 3222.0 | 2790.5 | 2347.0 | 1918.9 | 1600.5 | 1467.7 | 1366.7 | 1381.0 |
| 4371.3 | 10°   | 4049.7 | 3453.6 | 2765.3 | 2106.6 | 1512.7 | 1090.1 | 870.5  | 789.3  | 744.3  | 745.4  |
| 4418.5 | 12.5° | 4010.2 | 3205.5 | 2235.1 | 1428.2 | 921.0  | 696.0  | 627.9  | 608.2  | 595.0  | 596.1  |
| 4489.9 | 15°   | 3990.4 | 2913.5 | 1711.4 | 951.8  | 658.7  | 589.5  | 573.0  | 564.3  | 555.5  | 554.4  |
| 4568.9 | 17.5° | 3957.5 | 2588.5 | 1252.6 | 694.9  | 576.3  | 552.2  | 537.9  | 528.0  | 517.0  | 514.9  |
| 4637.0 | 20°   | 3908.1 | 2219.7 | 915.5  | 587.3  | 540.1  | 521.4  | 501.7  | 488.5  | 475.3  | 473.1  |
| 4679.8 | 22.5° | 3816.9 | 1830.0 | 703.7  | 543.4  | 513.8  | 492.9  | 468.7  | 453.4  | 440.2  | 438.0  |
| 4658.9 | 25°   | 3647.9 | 1464.4 | 592.8  | 516.0  | 490.7  | 465.5  | 439.1  | 418.3  | 406.2  | 404.0  |
| 4613.9 | 27.5° | 3433.8 | 1150.5 | 537.9  | 490.7  | 461.1  | 438.0  | 408.4  | 388.6  | 377.6  | 375.4  |
| 4554.6 | 30°   | 3181.3 | 885.9  | 506.1  | 462.2  | 425.9  | 406.2  | 379.8  | 363.4  | 356.8  | 356.8  |
| 4512.9 | 32.5° | 2909.1 | 708.1  | 492.9  | 433.6  | 395.2  | 373.2  | 352.4  | 345.8  | 343.6  | 342.5  |
| 4536.0 | 35°   | 2653.3 | 614.8  | 486.3  | 410.6  | 367.8  | 346.9  | 338.1  | 339.2  | 343.6  | 343.6  |
| 4607.3 | 37.5° | 2426.1 | 585.1  | 483.0  | 394.1  | 343.6  | 324.9  | 330.4  | 340.3  | 335.9  | 335.9  |
| 4732.5 | 40°   | 2220.8 | 588.4  | 480.8  | 382.0  | 323.8  | 312.9  | 323.8  | 316.2  | 305.2  | 304.1  |
| 4885.1 | 42.5° | 2063.8 | 615.8  | 476.4  | 372.1  | 311.8  | 304.1  | 299.7  | 287.6  | 286.5  | 288.7  |
| 5043.2 | 45°   | 1949.6 | 640.0  | 475.3  | 367.8  | 298.6  | 284.3  | 278.8  | 266.8  | 288.7  | 294.2  |
| 5107.9 | 47.5° | 1814.6 | 640.0  | 475.3  | 352.4  | 276.6  | 271.1  | 262.4  | 249.2  | 271.1  | 276.6  |
| 5046.4 | 50°   | 1640.1 | 599.4  | 456.7  | 334.8  | 259.1  | 255.8  | 240.4  | 223.9  | 219.6  | 222.8  |
| 4902.6 | 52.5° | 1419.4 | 525.8  | 409.5  | 310.7  | 241.5  | 234.9  | 216.3  | 204.2  | 200.9  | 200.9  |
| 4644.7 | 55°   | 1168.0 | 440.2  | 345.8  | 275.5  | 222.8  | 210.8  | 197.6  | 192.1  | 188.8  | 186.6  |
| 4283.5 | 57.5° | 949.6  | 361.2  | 277.7  | 244.8  | 205.3  | 189.9  | 185.5  | 178.9  | 173.4  | 170.2  |
| 3981.6 | 60°   | 779.4  | 284.3  | 229.4  | 217.4  | 187.7  | 173.4  | 172.3  | 163.6  | 149.3  | 147.1  |
| 3732.4 | 62.5° | 601.6  | 208.6  | 193.2  | 188.8  | 170.2  | 158.1  | 155.9  | 138.3  | 116.4  | 112.0  |
| 3378.9 | 65°   | 424.8  | 162.5  | 155.9  | 165.8  | 151.5  | 140.5  | 135.0  | 108.7  | 85.6   | 82.3   |
| 2827.9 | 67.5° | 298.6  | 136.1  | 123.0  | 144.9  | 131.7  | 117.5  | 114.2  | 92.2   | 71.4   | 69.2   |
| 2138.5 | 70°   | 213.0  | 110.9  | 101.0  | 124.0  | 105.4  | 103.2  | 96.6   | 76.8   | 58.2   | 56.0   |
| 1058.3 | 72.5° | 150.4  | 84.5   | 77.9   | 107.6  | 72.5   | 88.9   | 79.0   | 59.3   | 43.9   | 41.7   |
| 360.1  | 75°   | 110.9  | 60.4   | 54.9   | 62.6   | 52.7   | 67.0   | 56.0   | 39.5   | 27.4   | 26.3   |
| 162.5  | 77.5° | 81.2   | 38.4   | 32.9   | 30.7   | 30.7   | 41.7   | 30.7   | 16.5   | 12.1   | 11.0   |
| 82.3   | 80°   | 57.1   | 17.6   | 15.4   | 13.2   | 12.1   | 9.9    | 4.4    | 2.2    | 1.1    | 1.1    |
| 28.5   | 82.5° | 34.0   | 7.7    | 7.7    | 5.5    | 3.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 11.0   | 85°   | 7.7    | 3.3    | 3.3    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 4.4    | 87.5° | 1.1    | 1.1    | 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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