

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: P949788

Luminaire Tested: **GLAN-SB4B-940-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949788  
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-SB4B-940-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 450mA 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: 13943 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - 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

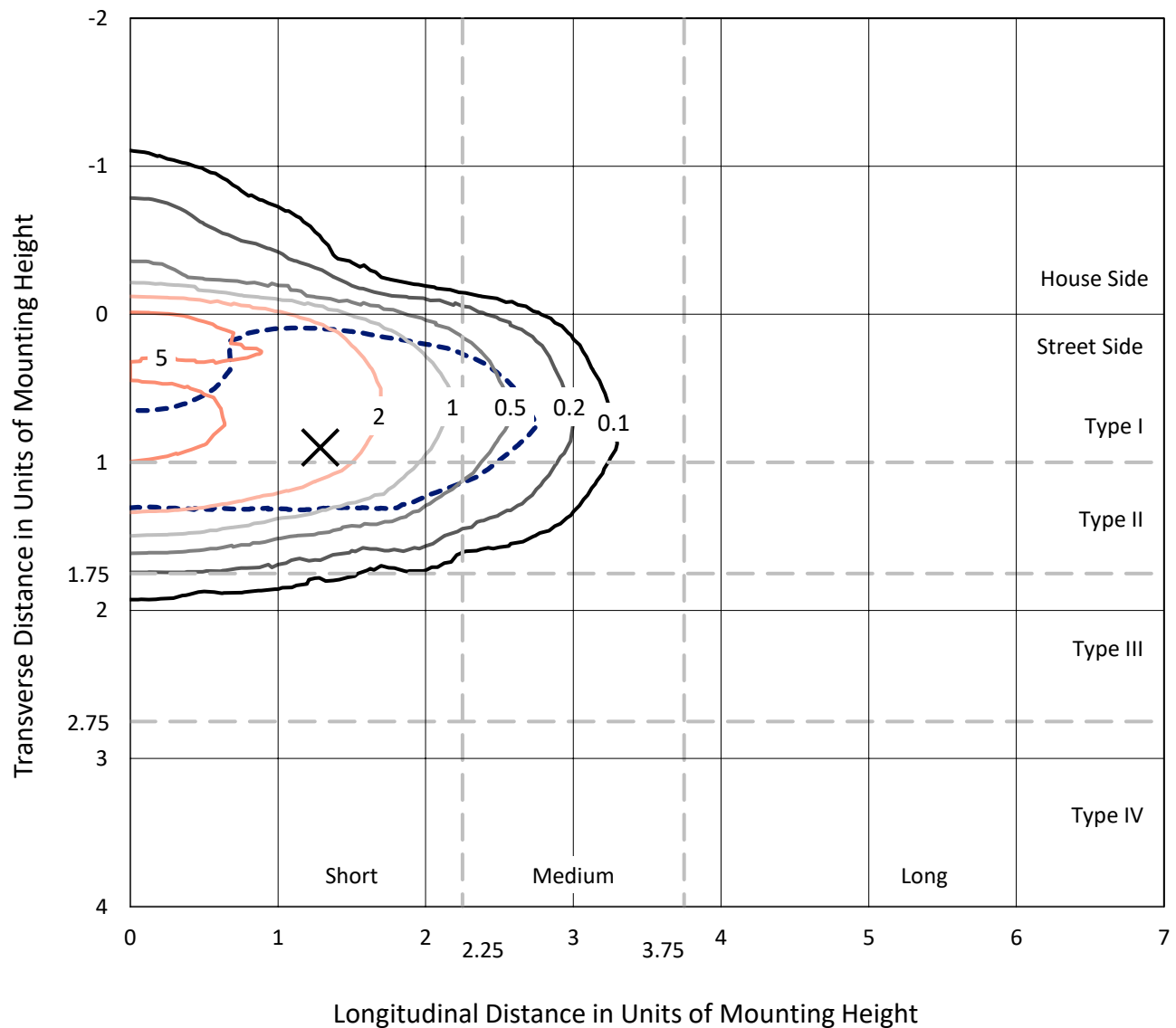


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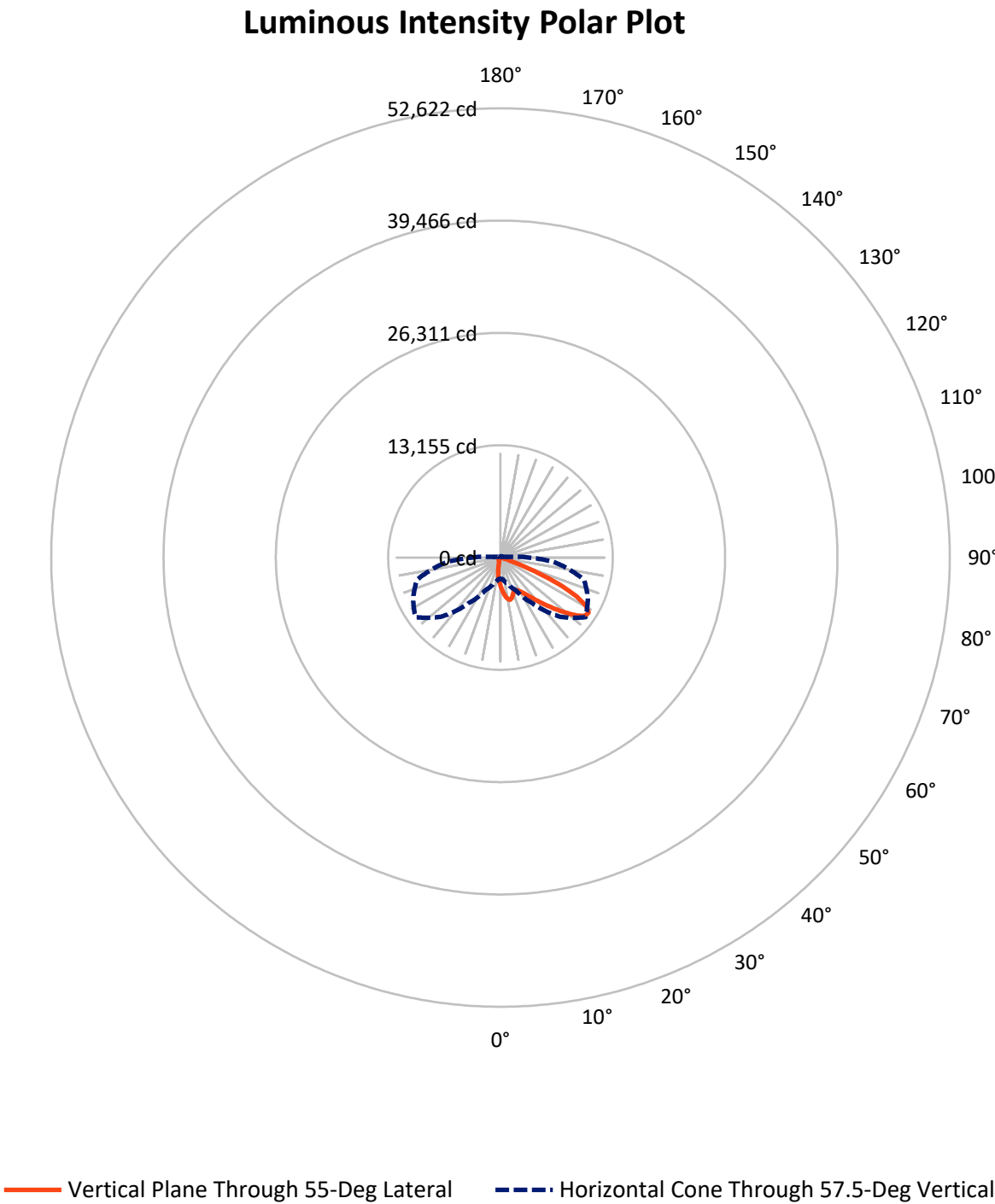
## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
Type II - Short - N/A

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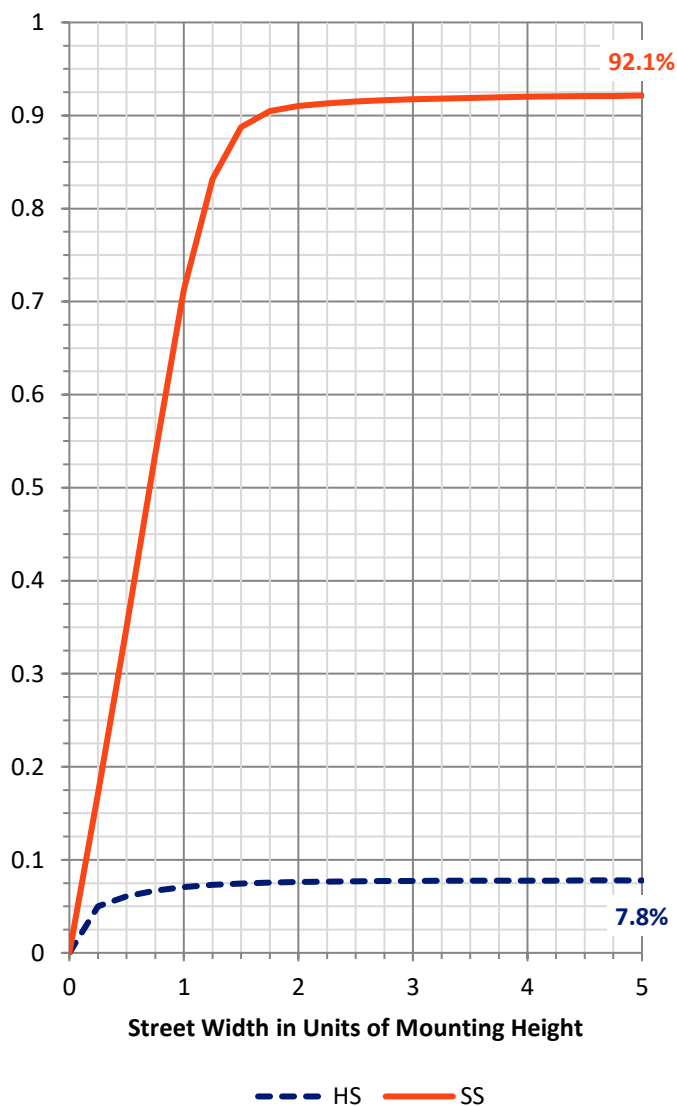
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1088.9   | 0.0    | 1088.9  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 12854.1  | 0.0    | 12854.1 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 13943.0  | 0.0    | 13943.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 312.6   | 2.2       |
| 10°-20°   | 755.1   | 5.4       |
| 20°-30°   | 1208.2  | 8.7       |
| 30°-40°   | 2045.0  | 14.7      |
| 40°-50°   | 3357.4  | 24.1      |
| 50°-60°   | 3690.0  | 26.5      |
| 60°-70°   | 2116.6  | 15.2      |
| 70°-80°   | 432.5   | 3.1       |
| 80°-90°   | 25.5    | 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°    | 13943.0 | 100.0     |
| 0°-180°   | 13943.0 | 100.0     |

**Coefficient of Utilization**



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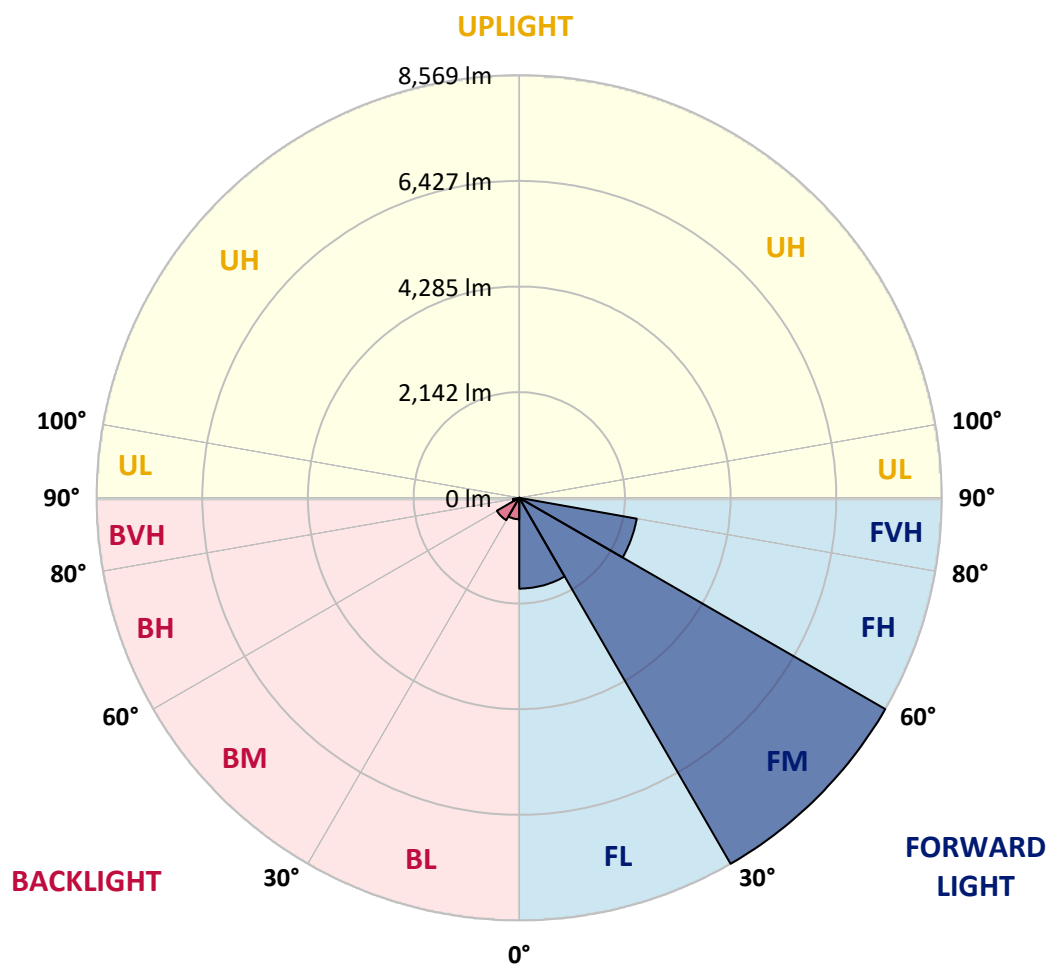
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1841.3 | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 8569.5 | 61.5      |                         |      |         |
| FH   | (60°-80°)   | 2419.6 | 17.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 23.8   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 434.7  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 523.0  | 3.8       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 129.5  | 0.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.7    | 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°    | 3359.9 | 3359.9 | 3359.9 | 3359.9 | 3359.9 | 3359.9  | 3359.9  | 3359.9  | 3359.9  | 3359.9 |
| 2.5°  | 4168.9 | 4116.5 | 4108.8 | 4098.4 | 3998.7 | 3923.9  | 3815.6  | 3696.9  | 3563.7  | 3427.8 |
| 5°    | 4816.3 | 4775.1 | 4767.3 | 4719.2 | 4605.7 | 4478.5  | 4285.9  | 4042.6  | 3794.1  | 3501.8 |
| 7.5°  | 4941.9 | 4934.1 | 4969.4 | 4967.7 | 4952.2 | 4851.6  | 4689.1  | 4399.4  | 4026.2  | 3592.9 |
| 10°   | 4382.2 | 4401.9 | 4506.8 | 4598.8 | 4847.3 | 4991.7  | 4956.5  | 4717.5  | 4265.2  | 3696.9 |
| 12.5° | 3872.3 | 3849.1 | 3923.9 | 4027.9 | 4316.8 | 4746.7  | 5067.4  | 4983.1  | 4538.6  | 3814.7 |
| 15°   | 3552.5 | 3543.0 | 3585.2 | 3633.3 | 3853.4 | 4286.7  | 4938.4  | 5198.9  | 4801.7  | 3954.0 |
| 17.5° | 3450.2 | 3442.5 | 3455.4 | 3467.4 | 3610.1 | 3945.4  | 4631.5  | 5331.3  | 5053.6  | 4113.1 |
| 20°   | 3533.6 | 3523.3 | 3521.6 | 3512.1 | 3571.4 | 3800.1  | 4353.8  | 5340.8  | 5279.8  | 4257.5 |
| 22.5° | 3776.9 | 3764.9 | 3722.7 | 3684.9 | 3690.1 | 3819.9  | 4230.0  | 5246.2  | 5450.0  | 4392.5 |
| 25°   | 4218.0 | 4198.2 | 4110.5 | 3983.2 | 3902.4 | 3957.4  | 4248.9  | 5121.6  | 5612.5  | 4498.2 |
| 27.5° | 4769.9 | 4744.1 | 4631.5 | 4442.3 | 4257.5 | 4190.4  | 4385.6  | 5035.6  | 5747.5  | 4579.1 |
| 30°   | 5310.7 | 5277.2 | 5166.3 | 5019.2 | 4749.3 | 4537.8  | 4632.4  | 5073.4  | 5908.2  | 4663.3 |
| 32.5° | 5894.5 | 5862.7 | 5715.6 | 5533.4 | 5309.8 | 5025.3  | 4970.2  | 5258.3  | 6105.1  | 4781.1 |
| 35°   | 6633.0 | 6583.1 | 6374.2 | 6125.7 | 5888.5 | 5600.4  | 5427.6  | 5577.2  | 6367.3  | 4960.8 |
| 37.5° | 7473.8 | 7406.8 | 7181.5 | 6838.5 | 6529.0 | 6206.6  | 5984.7  | 6015.7  | 6751.6  | 5201.5 |
| 40°   | 8266.5 | 8205.5 | 7997.4 | 7674.2 | 7285.6 | 6894.4  | 6657.9  | 6589.2  | 7282.1  | 5494.7 |
| 42.5° | 8742.0 | 8687.0 | 8599.3 | 8462.6 | 8135.0 | 7736.1  | 7437.7  | 7289.0  | 7909.7  | 5845.5 |
| 45°   | 8768.6 | 8720.5 | 8838.3 | 8997.3 | 8932.8 | 8667.2  | 8303.5  | 8031.0  | 8539.9  | 6174.8 |
| 47.5° | 8342.2 | 8309.5 | 8667.2 | 9222.6 | 9499.4 | 9611.2  | 9275.9  | 8711.0  | 9060.1  | 6411.2 |
| 50°   | 7179.8 | 7167.8 | 7903.7 | 8923.4 | 9715.2 | 10438.3 | 10301.6 | 9343.8  | 9463.3  | 6533.3 |
| 52.5° | 6225.5 | 6181.6 | 6610.6 | 7965.6 | 9401.4 | 10873.3 | 11304.0 | 9964.6  | 9745.3  | 6556.5 |
| 55°   | 4721.8 | 4683.1 | 5221.3 | 6363.0 | 8389.5 | 10718.6 | 12037.4 | 10605.1 | 9947.4  | 6497.2 |
| 57.5° | 2532.8 | 2508.8 | 3188.8 | 4235.1 | 6558.2 | 9790.0  | 12169.8 | 11282.6 | 10117.6 | 6339.8 |
| 60°   | 986.1  | 981.8  | 1236.3 | 2054.8 | 3985.8 | 7964.8  | 11501.8 | 11689.2 | 10224.2 | 6146.4 |
| 62.5° | 596.7  | 609.6  | 650.8  | 922.5  | 1760.8 | 4947.9  | 9962.0  | 11226.7 | 10295.6 | 5969.3 |
| 65°   | 493.5  | 494.4  | 499.5  | 633.6  | 843.4  | 2070.3  | 7499.6  | 9704.9  | 10119.3 | 5653.7 |
| 67.5° | 423.0  | 430.7  | 450.5  | 503.0  | 594.9  | 907.9   | 4317.7  | 7517.7  | 9047.2  | 4919.5 |
| 70°   | 333.6  | 343.9  | 368.8  | 413.5  | 459.1  | 568.3   | 1595.7  | 5002.0  | 6911.6  | 3708.1 |
| 72.5° | 281.1  | 280.3  | 293.2  | 336.2  | 364.5  | 399.8   | 613.9   | 2802.8  | 4016.8  | 1770.2 |
| 75°   | 217.5  | 226.1  | 242.5  | 281.1  | 298.3  | 289.7   | 332.7   | 1024.0  | 1439.2  | 536.5  |
| 77.5° | 170.2  | 177.1  | 191.7  | 229.6  | 246.7  | 205.5   | 191.7   | 366.3   | 462.5   | 192.6  |
| 80°   | 76.5   | 82.5   | 130.7  | 169.4  | 201.2  | 141.9   | 104.0   | 187.4   | 205.5   | 87.7   |
| 82.5° | 13.8   | 23.2   | 76.5   | 89.4   | 103.2  | 92.0    | 54.2    | 97.2    | 100.6   | 35.2   |
| 85°   | 0.9    | 1.7    | 26.7   | 32.7   | 41.3   | 30.1    | 16.3    | 38.7    | 33.5    | 12.0   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 4.3     | 5.2     | 6.9     | 5.2     | 4.3    |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3359.9 | 0°    | 3359.9 | 3359.9 | 3359.9 | 3359.9 | 3359.9 | 3359.9 | 3359.9 | 3359.9 | 3359.9 | 3359.9 |
| 3367.7 | 2.5°  | 3305.8 | 3183.7 | 3065.0 | 2967.9 | 2911.1 | 2814.8 | 2751.2 | 2740.9 | 2714.2 | 2737.5 |
| 3376.3 | 5°    | 3242.1 | 3023.8 | 2802.8 | 2605.1 | 2442.6 | 2232.8 | 2076.3 | 2010.1 | 1952.5 | 1972.3 |
| 3398.6 | 7.5°  | 3212.0 | 2867.3 | 2523.4 | 2185.5 | 1838.2 | 1502.9 | 1253.5 | 1149.5 | 1070.4 | 1081.6 |
| 3423.5 | 10°   | 3171.6 | 2704.8 | 2165.7 | 1649.9 | 1184.7 | 853.7  | 681.8  | 618.2  | 582.9  | 583.8  |
| 3460.5 | 12.5° | 3140.7 | 2510.5 | 1750.5 | 1118.5 | 721.3  | 545.1  | 491.8  | 476.3  | 466.0  | 466.8  |
| 3516.4 | 15°   | 3125.2 | 2281.8 | 1340.4 | 745.4  | 515.9  | 461.7  | 448.8  | 441.9  | 435.0  | 434.2  |
| 3578.3 | 17.5° | 3099.4 | 2027.3 | 981.0  | 544.2  | 451.4  | 432.5  | 421.3  | 413.5  | 404.9  | 403.2  |
| 3631.6 | 20°   | 3060.7 | 1738.4 | 717.0  | 460.0  | 423.0  | 408.4  | 392.9  | 382.6  | 372.3  | 370.6  |
| 3665.1 | 22.5° | 2989.4 | 1433.2 | 551.1  | 425.6  | 402.4  | 386.0  | 367.1  | 355.1  | 344.8  | 343.0  |
| 3648.8 | 25°   | 2857.0 | 1146.9 | 464.3  | 404.1  | 384.3  | 364.5  | 343.9  | 327.6  | 318.1  | 316.4  |
| 3613.5 | 27.5° | 2689.3 | 901.0  | 421.3  | 384.3  | 361.1  | 343.0  | 319.8  | 304.4  | 295.8  | 294.0  |
| 3567.1 | 30°   | 2491.6 | 693.8  | 396.3  | 362.0  | 333.6  | 318.1  | 297.5  | 284.6  | 279.4  | 279.4  |
| 3534.4 | 32.5° | 2278.3 | 554.5  | 386.0  | 339.6  | 309.5  | 292.3  | 276.0  | 270.8  | 269.1  | 268.2  |
| 3552.5 | 35°   | 2078.0 | 481.5  | 380.9  | 321.5  | 288.0  | 271.7  | 264.8  | 265.7  | 269.1  | 269.1  |
| 3608.4 | 37.5° | 1900.1 | 458.2  | 378.3  | 308.7  | 269.1  | 254.5  | 258.8  | 266.5  | 263.1  | 263.1  |
| 3706.4 | 40°   | 1739.3 | 460.8  | 376.6  | 299.2  | 253.6  | 245.0  | 253.6  | 247.6  | 239.0  | 238.2  |
| 3825.9 | 42.5° | 1616.3 | 482.3  | 373.1  | 291.5  | 244.2  | 238.2  | 234.7  | 225.3  | 224.4  | 226.1  |
| 3949.7 | 45°   | 1526.9 | 501.2  | 372.3  | 288.0  | 233.9  | 222.7  | 218.4  | 208.9  | 226.1  | 230.4  |
| 4000.4 | 47.5° | 1421.2 | 501.2  | 372.3  | 276.0  | 216.7  | 212.4  | 205.5  | 195.2  | 212.4  | 216.7  |
| 3952.3 | 50°   | 1284.5 | 469.4  | 357.7  | 262.2  | 202.9  | 200.3  | 188.3  | 175.4  | 172.0  | 174.5  |
| 3839.7 | 52.5° | 1111.7 | 411.8  | 320.7  | 243.3  | 189.1  | 184.0  | 169.4  | 159.9  | 157.3  | 157.3  |
| 3637.6 | 55°   | 914.8  | 344.8  | 270.8  | 215.8  | 174.5  | 165.1  | 154.8  | 150.5  | 147.9  | 146.2  |
| 3354.8 | 57.5° | 743.7  | 282.9  | 217.5  | 191.7  | 160.8  | 148.7  | 145.3  | 140.1  | 135.8  | 133.3  |
| 3118.3 | 60°   | 610.4  | 222.7  | 179.7  | 170.2  | 147.0  | 135.8  | 135.0  | 128.1  | 116.9  | 115.2  |
| 2923.2 | 62.5° | 471.1  | 163.4  | 151.3  | 147.9  | 133.3  | 123.8  | 122.1  | 108.3  | 91.1   | 87.7   |
| 2646.3 | 65°   | 332.7  | 127.2  | 122.1  | 129.8  | 118.6  | 110.0  | 105.7  | 85.1   | 67.1   | 64.5   |
| 2214.7 | 67.5° | 233.9  | 106.6  | 96.3   | 113.5  | 103.2  | 92.0   | 89.4   | 72.2   | 55.9   | 54.2   |
| 1674.8 | 70°   | 166.8  | 86.8   | 79.1   | 97.2   | 82.5   | 80.8   | 75.7   | 60.2   | 45.6   | 43.8   |
| 828.8  | 72.5° | 117.8  | 66.2   | 61.0   | 84.3   | 56.7   | 69.6   | 61.9   | 46.4   | 34.4   | 32.7   |
| 282.0  | 75°   | 86.8   | 47.3   | 43.0   | 49.0   | 41.3   | 52.4   | 43.8   | 31.0   | 21.5   | 20.6   |
| 127.2  | 77.5° | 63.6   | 30.1   | 25.8   | 24.1   | 24.1   | 32.7   | 24.1   | 12.9   | 9.5    | 8.6    |
| 64.5   | 80°   | 44.7   | 13.8   | 12.0   | 10.3   | 9.5    | 7.7    | 3.4    | 1.7    | 0.9    | 0.9    |
| 22.4   | 82.5° | 26.7   | 6.0    | 6.0    | 4.3    | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 8.6    | 85°   | 6.0    | 2.6    | 2.6    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 3.4    | 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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