

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: P950450

Luminaire Tested: **GLAN-SB4D-927-U-T2R-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P950450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB4D-927-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 21019 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

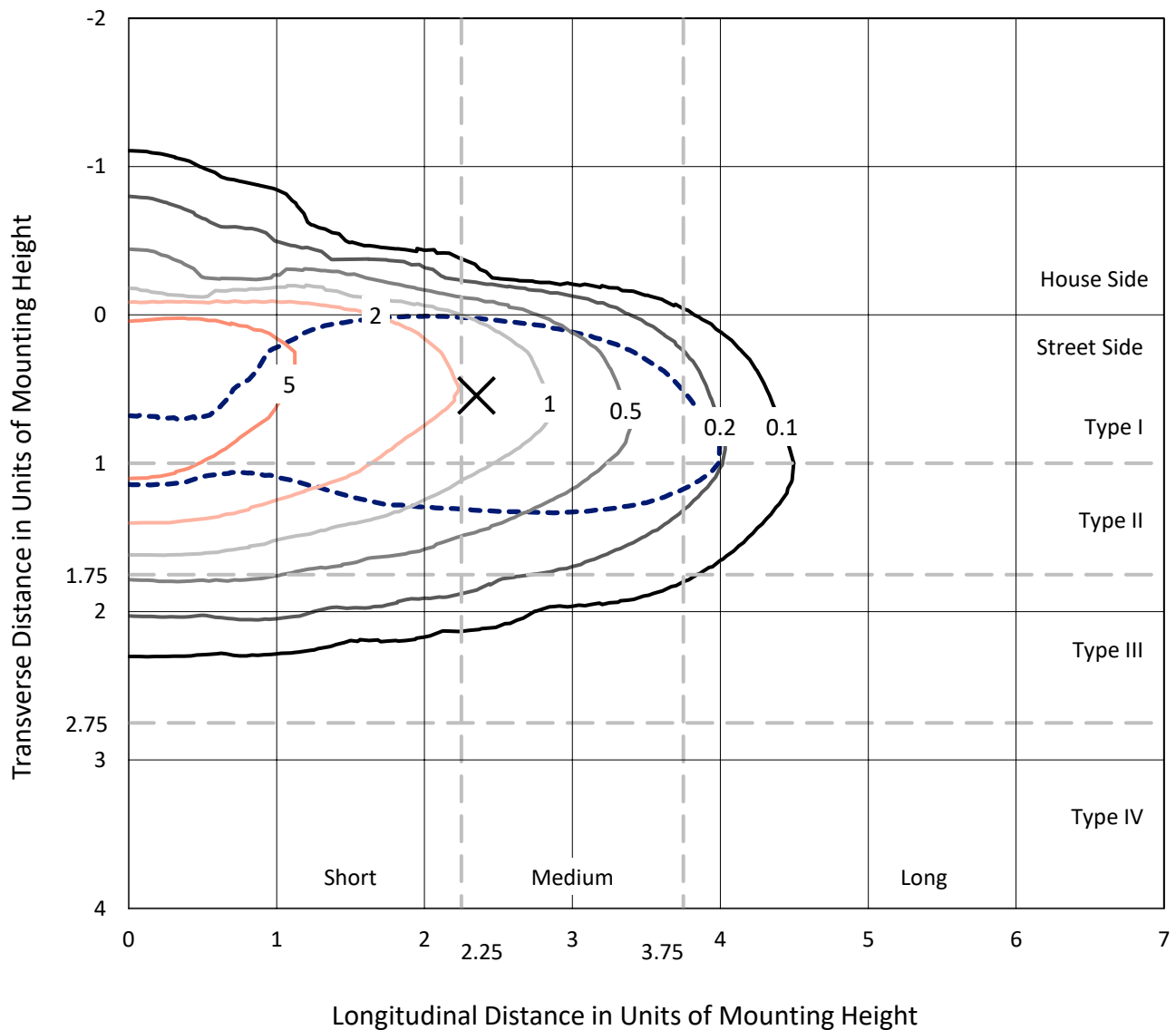
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

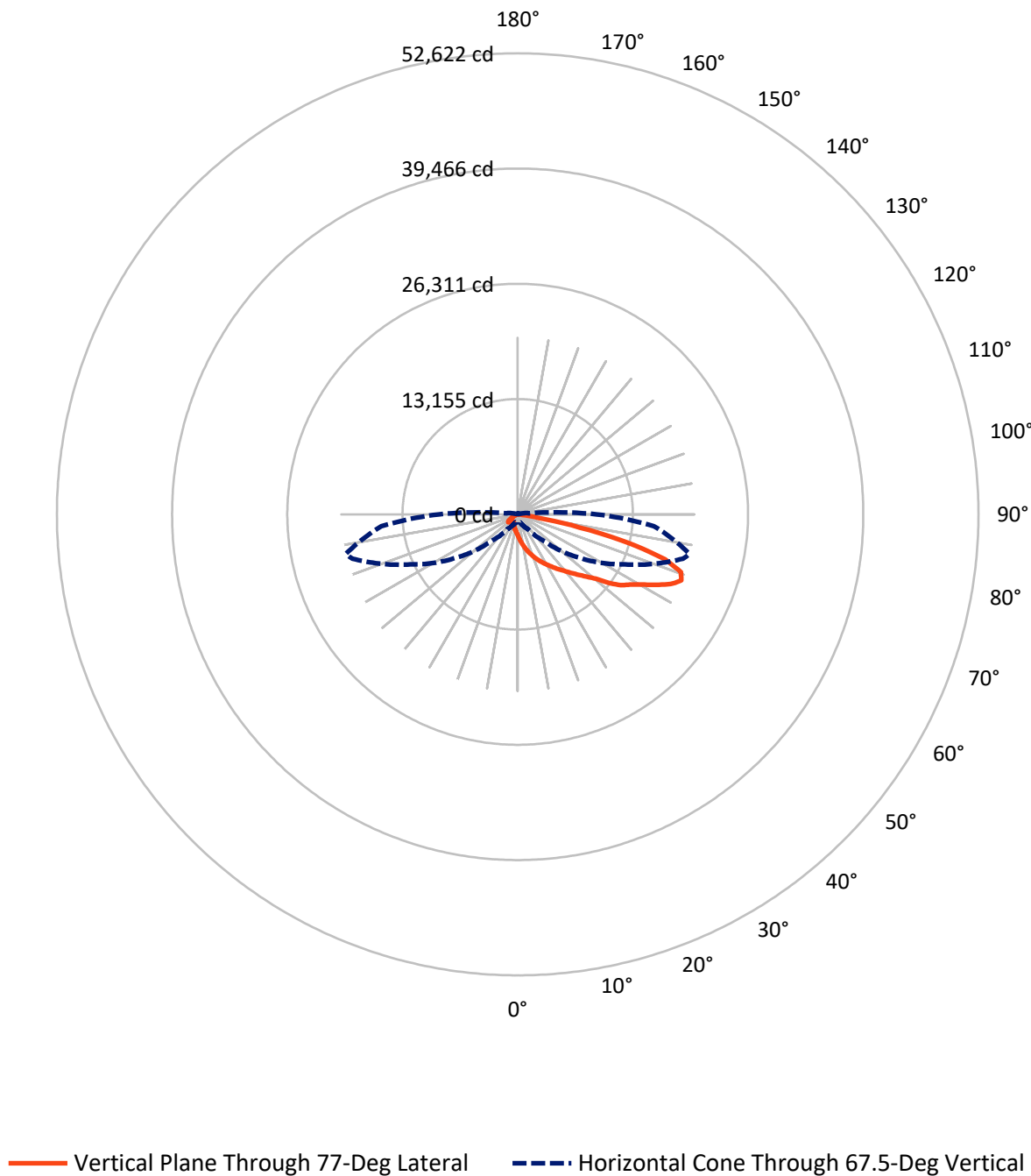
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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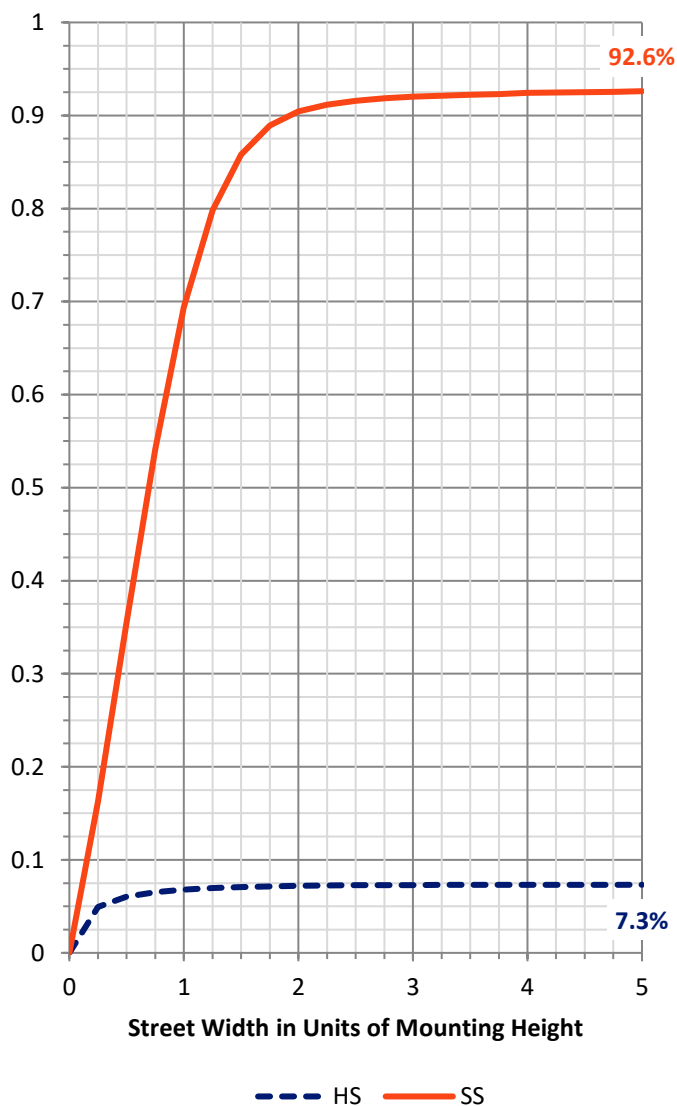
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1546.4   | 0.0    | 1546.4  |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 19472.6  | 0.0    | 19472.6 |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 21019.0  | 0.0    | 21019.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 247.4   | 1.2       |
| 10°-20°   | 866.3   | 4.1       |
| 20°-30°   | 1671.8  | 8.0       |
| 30°-40°   | 2902.3  | 13.8      |
| 40°-50°   | 4214.0  | 20.0      |
| 50°-60°   | 4839.2  | 23.0      |
| 60°-70°   | 4201.3  | 20.0      |
| 70°-80°   | 1978.9  | 9.4       |
| 80°-90°   | 97.9    | 0.5       |
| 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°    | 21019.0 | 100.0     |
| 0°-180°   | 21019.0 | 100.0     |

**Coefficient of Utilization**



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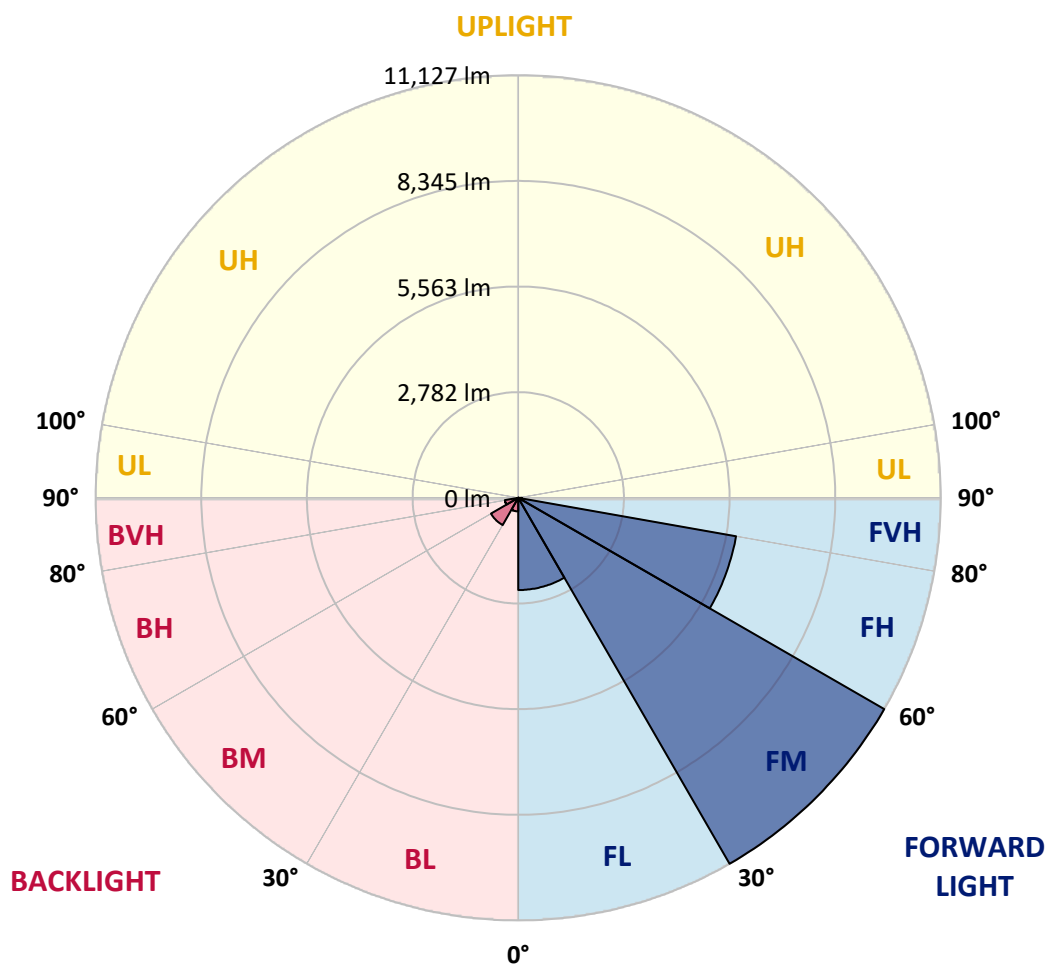
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2427.5  | 11.5      |                         |      |         |
| FM   | (30°-60°)   | 11126.9 | 52.9      |                         |      |         |
| FH   | (60°-80°)   | 5822.2  | 27.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 96.1    | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 358.0   | 1.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 828.6   | 3.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 358.0   | 1.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.8     | 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-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2423.8  | 2423.8  | 2423.8  | 2423.8  | 2423.8  | 2423.8  | 2423.8  | 2423.8  | 2423.8  | 2423.8  |
| 2.5°  | 3355.7  | 3376.6  | 3346.6  | 3289.2  | 3203.0  | 3146.9  | 3009.8  | 2880.6  | 2737.1  | 2691.4  |
| 5°    | 4090.6  | 4108.8  | 4074.9  | 4012.3  | 3897.4  | 3787.8  | 3607.6  | 3337.5  | 3056.8  | 2966.8  |
| 7.5°  | 4634.8  | 4645.3  | 4632.2  | 4574.8  | 4465.2  | 4341.2  | 4140.2  | 3820.4  | 3404.0  | 3304.8  |
| 10°   | 5026.4  | 5060.4  | 5056.4  | 5034.2  | 4961.2  | 4860.7  | 4646.6  | 4282.4  | 3793.0  | 3665.1  |
| 12.5° | 5286.2  | 5324.0  | 5346.2  | 5395.8  | 5391.9  | 5327.9  | 5140.0  | 4754.9  | 4180.6  | 4030.5  |
| 15°   | 5361.9  | 5402.3  | 5487.2  | 5602.0  | 5703.8  | 5736.5  | 5604.6  | 5218.3  | 4607.4  | 4415.6  |
| 17.5° | 5318.8  | 5381.4  | 5483.2  | 5664.7  | 5887.9  | 6035.4  | 6021.0  | 5666.0  | 4995.1  | 4775.8  |
| 20°   | 5414.1  | 5474.1  | 5553.7  | 5706.4  | 5966.2  | 6233.7  | 6340.8  | 6094.1  | 5380.1  | 5150.4  |
| 22.5° | 5941.4  | 5930.9  | 5938.8  | 5963.6  | 6118.9  | 6383.8  | 6604.4  | 6483.0  | 5761.3  | 5526.3  |
| 25°   | 6776.7  | 6729.7  | 6650.1  | 6515.7  | 6476.5  | 6604.4  | 6834.1  | 6827.6  | 6163.3  | 5911.4  |
| 27.5° | 7734.8  | 7726.9  | 7540.3  | 7216.6  | 7033.8  | 6984.2  | 7093.9  | 7163.1  | 6561.4  | 6292.5  |
| 30°   | 8652.3  | 8673.2  | 8421.3  | 8061.1  | 7725.6  | 7531.1  | 7431.9  | 7481.5  | 6966.0  | 6703.6  |
| 32.5° | 9451.1  | 9473.3  | 9199.2  | 8777.6  | 8362.6  | 8127.6  | 7918.8  | 7796.1  | 7407.1  | 7121.3  |
| 35°   | 10125.9 | 10148.1 | 9833.6  | 9367.6  | 8925.1  | 8712.4  | 8476.1  | 8140.7  | 7850.9  | 7584.7  |
| 37.5° | 10728.9 | 10722.4 | 10300.8 | 9830.9  | 9396.3  | 9227.9  | 9103.9  | 8564.9  | 8307.7  | 8050.6  |
| 40°   | 11085.3 | 11112.7 | 10752.4 | 10234.3 | 9812.7  | 9690.0  | 9682.1  | 9090.9  | 8835.1  | 8585.8  |
| 42.5° | 11189.7 | 11238.0 | 10976.9 | 10551.4 | 10169.0 | 10035.9 | 10240.8 | 9660.0  | 9448.5  | 9205.7  |
| 45°   | 11001.7 | 11048.7 | 10929.9 | 10635.0 | 10411.8 | 10325.6 | 10721.1 | 10249.9 | 10103.7 | 9863.6  |
| 47.5° | 10453.5 | 10512.3 | 10541.0 | 10478.3 | 10475.7 | 10563.2 | 11151.8 | 10871.2 | 10881.6 | 10636.3 |
| 50°   | 9392.4  | 9491.6  | 9755.2  | 9977.1  | 10320.4 | 10751.1 | 11570.8 | 11544.7 | 11758.8 | 11547.3 |
| 52.5° | 7463.3  | 7604.2  | 8512.7  | 9119.6  | 9891.0  | 10715.9 | 12031.5 | 12625.4 | 13297.6 | 12988.3 |
| 55°   | 5997.5  | 5997.5  | 6736.3  | 7871.8  | 9053.0  | 10483.6 | 12232.6 | 13327.6 | 14345.7 | 14272.6 |
| 57.5° | 4889.4  | 4948.1  | 5419.3  | 6423.0  | 7840.5  | 9930.1  | 12356.5 | 13768.8 | 15190.2 | 15136.7 |
| 60°   | 3017.7  | 3144.3  | 4034.4  | 5025.1  | 6460.9  | 8944.7  | 12278.2 | 14215.2 | 16214.8 | 16257.9 |
| 62.5° | 1699.4  | 1746.4  | 2143.2  | 3615.5  | 5023.8  | 7619.9  | 11679.1 | 14464.5 | 17525.2 | 17708.0 |
| 65°   | 1173.4  | 1196.9  | 1349.6  | 2250.2  | 3482.3  | 6066.7  | 10508.4 | 14309.2 | 18838.3 | 19207.7 |
| 67.5° | 852.3   | 864.1   | 959.3   | 1374.4  | 2066.2  | 4398.6  | 8673.2  | 13526.0 | 19534.0 | 20151.3 |
| 70°   | 655.2   | 663.1   | 732.2   | 903.2   | 1220.4  | 2714.9  | 6299.0  | 11968.9 | 19030.2 | 19767.6 |
| 72.5° | 532.5   | 540.4   | 593.9   | 668.3   | 809.2   | 1605.4  | 3817.8  | 9720.0  | 16806.1 | 17602.2 |
| 75°   | 449.0   | 459.4   | 507.7   | 556.0   | 634.3   | 1031.1  | 1790.8  | 6768.9  | 12638.5 | 13160.6 |
| 77.5° | 249.3   | 229.7   | 412.5   | 460.7   | 535.1   | 652.6   | 838.0   | 3983.5  | 7078.2  | 7223.1  |
| 80°   | 155.3   | 160.5   | 327.6   | 370.7   | 411.1   | 328.9   | 383.7   | 1533.6  | 2453.8  | 2331.1  |
| 82.5° | 9.1     | 20.9    | 251.9   | 267.6   | 281.9   | 141.0   | 144.9   | 520.8   | 591.3   | 543.0   |
| 85°   | 0.0     | 0.0     | 114.9   | 92.7    | 97.9    | 40.5    | 41.8    | 121.4   | 79.6    | 86.1    |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.6     | 0.0     | 3.9     | 7.8     | 10.4    | 3.9     | 5.2     |
| 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):**

| 85°     |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2423.8  | 0°    | 2423.8 | 2423.8 | 2423.8 | 2423.8 | 2423.8 | 2423.8 | 2423.8 | 2423.8 | 2423.8 | 2423.8 |
| 2547.8  | 2.5°  | 2456.4 | 2365.1 | 2179.7 | 1998.3 | 1850.8 | 1713.8 | 1615.9 | 1523.2 | 1476.2 | 1473.6 |
| 2712.3  | 5°    | 2530.8 | 2339.0 | 1968.3 | 1640.7 | 1377.0 | 1165.6 | 1028.5 | 930.6  | 881.0  | 864.1  |
| 2914.6  | 7.5°  | 2635.2 | 2346.8 | 1782.9 | 1327.4 | 1016.8 | 835.3  | 757.0  | 725.7  | 715.3  | 703.5  |
| 3143.0  | 10°   | 2767.1 | 2365.1 | 1617.2 | 1069.0 | 801.4  | 710.0  | 678.7  | 665.7  | 657.8  | 650.0  |
| 3400.1  | 12.5° | 2914.6 | 2382.0 | 1452.7 | 887.6  | 704.8  | 657.8  | 635.6  | 620.0  | 609.5  | 600.4  |
| 3663.8  | 15°   | 3058.1 | 2392.5 | 1281.7 | 760.9  | 655.2  | 617.4  | 593.9  | 576.9  | 562.6  | 552.1  |
| 3922.2  | 17.5° | 3200.4 | 2406.8 | 1121.2 | 685.2  | 614.8  | 576.9  | 553.4  | 532.5  | 520.8  | 509.0  |
| 4193.7  | 20°   | 3358.3 | 2404.2 | 969.8  | 631.7  | 574.3  | 536.4  | 511.6  | 492.1  | 480.3  | 467.3  |
| 4480.8  | 22.5° | 3504.5 | 2391.2 | 836.6  | 586.0  | 532.5  | 496.0  | 468.6  | 449.0  | 437.2  | 426.8  |
| 4774.5  | 25°   | 3672.9 | 2380.7 | 725.7  | 544.3  | 493.4  | 456.8  | 426.8  | 408.5  | 395.5  | 386.3  |
| 5069.5  | 27.5° | 3834.7 | 2365.1 | 644.8  | 506.4  | 455.5  | 420.3  | 391.6  | 370.7  | 358.9  | 352.4  |
| 5373.6  | 30°   | 3994.0 | 2361.1 | 614.8  | 469.9  | 421.6  | 386.3  | 357.6  | 338.1  | 328.9  | 326.3  |
| 5707.7  | 32.5° | 4185.9 | 2371.6 | 627.8  | 456.8  | 390.3  | 355.0  | 327.6  | 313.3  | 304.1  | 304.1  |
| 6079.7  | 35°   | 4390.8 | 2369.0 | 647.4  | 468.6  | 369.4  | 323.7  | 302.8  | 293.7  | 284.5  | 284.5  |
| 6492.2  | 37.5° | 4647.9 | 2372.9 | 663.1  | 488.2  | 361.5  | 297.6  | 285.8  | 274.1  | 268.9  | 268.9  |
| 6943.8  | 40°   | 5031.6 | 2502.1 | 655.2  | 505.1  | 358.9  | 279.3  | 255.8  | 251.9  | 248.0  | 248.0  |
| 7454.1  | 42.5° | 5501.5 | 2782.7 | 665.7  | 506.4  | 357.6  | 266.3  | 234.9  | 242.8  | 233.6  | 232.3  |
| 8029.7  | 45°   | 6015.8 | 3089.5 | 732.2  | 479.0  | 356.3  | 259.7  | 224.5  | 233.6  | 219.3  | 219.3  |
| 8696.7  | 47.5° | 6526.1 | 3393.6 | 800.1  | 439.9  | 352.4  | 258.4  | 215.4  | 210.1  | 206.2  | 207.5  |
| 9566.0  | 50°   | 7229.6 | 3641.6 | 826.2  | 386.3  | 343.3  | 255.8  | 198.4  | 199.7  | 197.1  | 199.7  |
| 10791.6 | 52.5° | 7995.8 | 3693.8 | 794.9  | 326.3  | 317.2  | 248.0  | 186.6  | 191.9  | 190.6  | 193.2  |
| 11654.3 | 55°   | 8473.5 | 3637.7 | 656.5  | 271.5  | 276.7  | 216.7  | 174.9  | 185.3  | 185.3  | 185.3  |
| 12497.5 | 57.5° | 8966.9 | 3398.8 | 466.0  | 220.6  | 229.7  | 177.5  | 164.5  | 178.8  | 177.5  | 176.2  |
| 13513.0 | 60°   | 9321.9 | 3012.5 | 306.7  | 181.4  | 182.7  | 146.2  | 152.7  | 168.4  | 167.1  | 160.5  |
| 14559.8 | 62.5° | 9586.9 | 2585.6 | 197.1  | 154.0  | 139.7  | 131.8  | 139.7  | 152.7  | 147.5  | 133.1  |
| 15447.3 | 65°   | 9556.8 | 1994.4 | 151.4  | 131.8  | 114.9  | 114.9  | 121.4  | 133.1  | 117.5  | 94.0   |
| 15617.0 | 67.5° | 8999.5 | 1349.6 | 125.3  | 110.9  | 96.6   | 95.3   | 100.5  | 110.9  | 100.5  | 79.6   |
| 14747.7 | 70°   | 8003.6 | 882.3  | 100.5  | 86.1   | 77.0   | 70.5   | 80.9   | 95.3   | 84.8   | 64.0   |
| 12554.9 | 72.5° | 6496.1 | 537.8  | 75.7   | 62.7   | 56.1   | 45.7   | 64.0   | 78.3   | 67.9   | 47.0   |
| 8730.6  | 75°   | 4202.8 | 274.1  | 52.2   | 40.5   | 30.0   | 27.4   | 47.0   | 58.7   | 47.0   | 28.7   |
| 3873.9  | 77.5° | 1608.0 | 114.9  | 28.7   | 18.3   | 15.7   | 13.1   | 26.1   | 35.2   | 19.6   | 6.5    |
| 750.5   | 80°   | 309.3  | 48.3   | 14.4   | 9.1    | 7.8    | 5.2    | 3.9    | 2.6    | 0.0    | 0.0    |
| 133.1   | 82.5° | 53.5   | 15.7   | 5.2    | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 26.1    | 85°   | 18.3   | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 9.1     | 87.5° | 6.5    | 0.0    | 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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| 180°   |
|--------|
| 2423.8 |
| 1471.0 |
| 861.4  |
| 700.9  |
| 647.4  |
| 597.8  |
| 550.8  |
| 507.7  |
| 466.0  |
| 425.5  |
| 385.0  |
| 352.4  |
| 325.0  |
| 304.1  |
| 284.5  |
| 268.9  |
| 248.0  |
| 231.0  |
| 219.3  |
| 207.5  |
| 199.7  |
| 193.2  |
| 185.3  |
| 176.2  |
| 160.5  |
| 130.5  |
| 91.4   |
| 77.0   |
| 61.3   |
| 44.4   |
| 24.8   |
| 5.2    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |