

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: P949589

Luminaire Tested: **GLAN-SB4B-750-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949589  
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-SB4B-750-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 5000K, 450mA 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: 20216 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

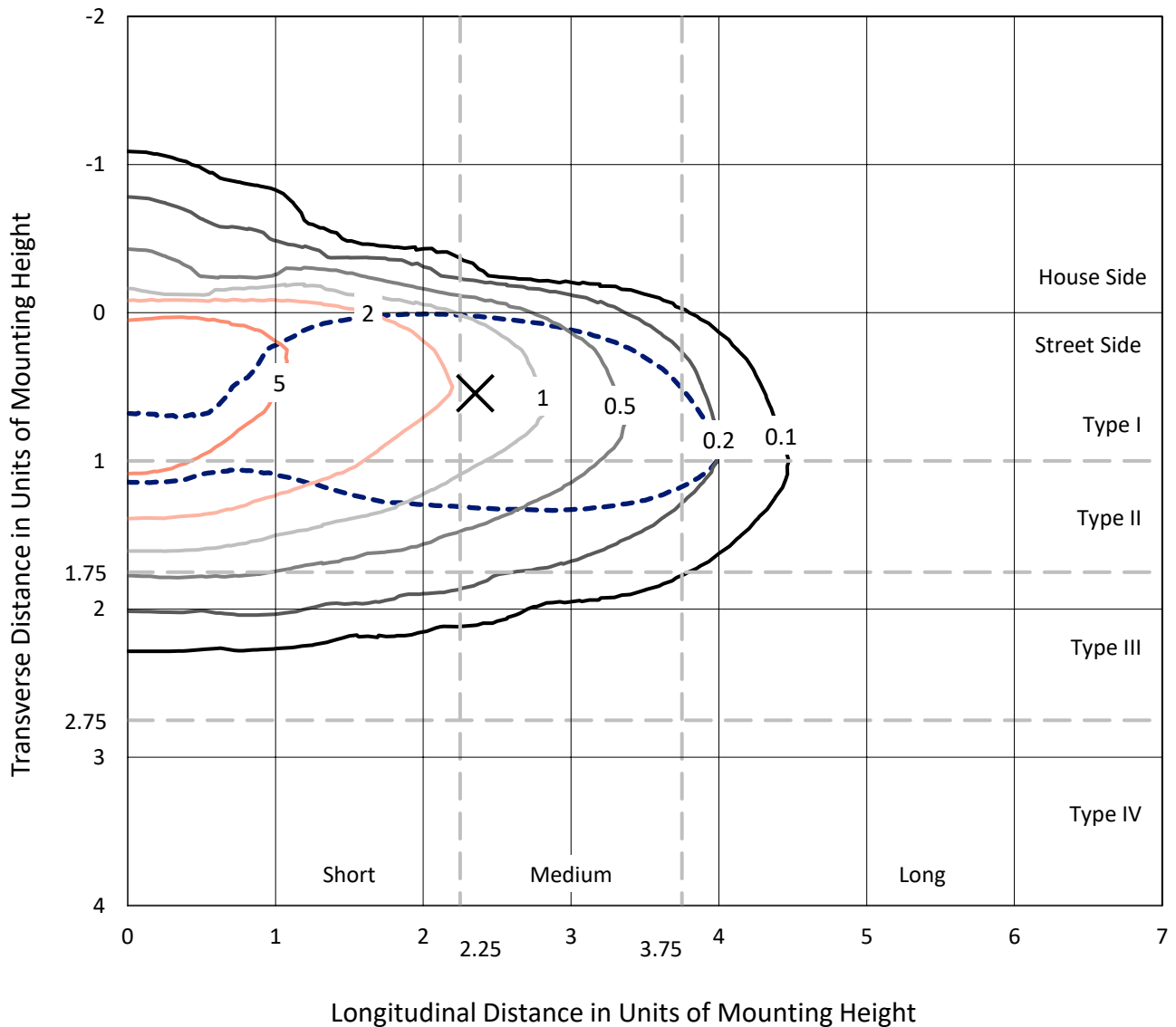
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

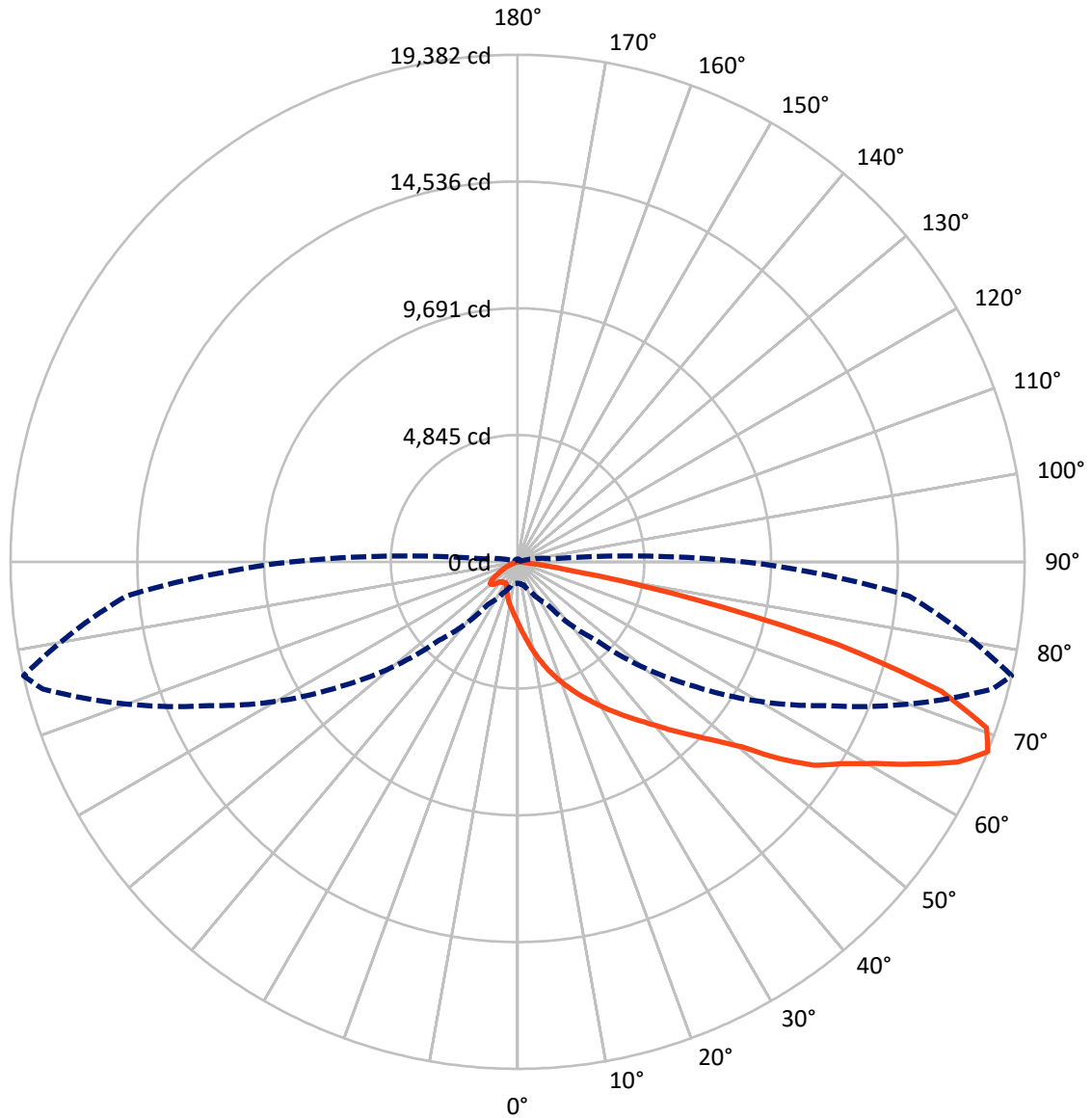
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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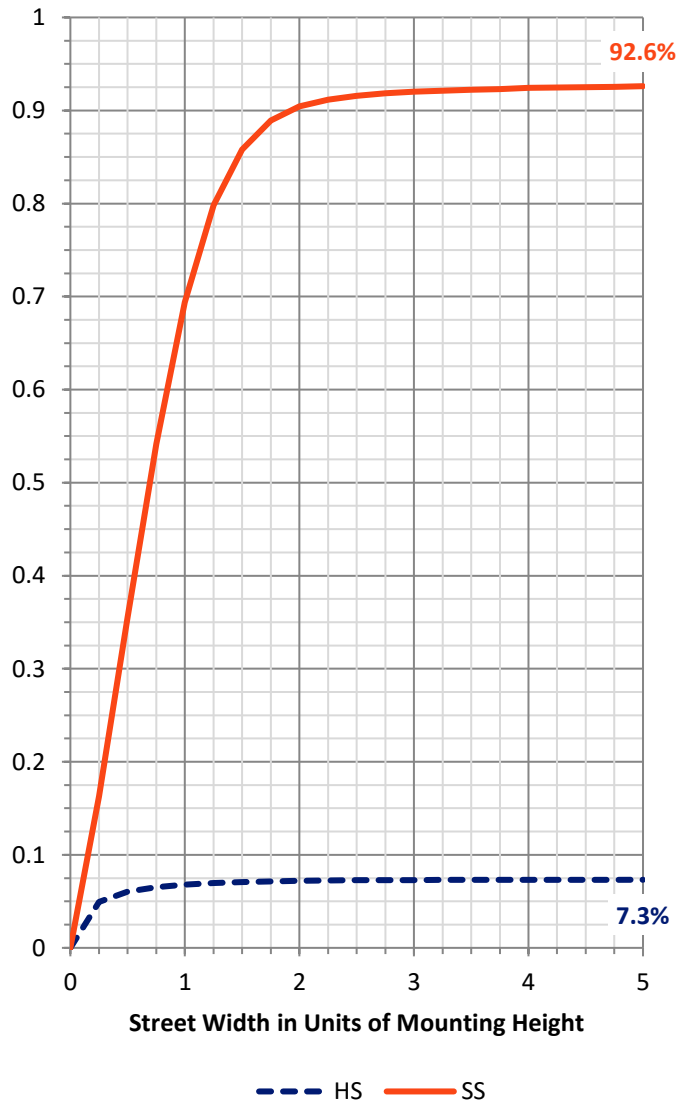
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1487.3   | 0.0    | 1487.3  |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 18728.7  | 0.0    | 18728.7 |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 20216.0  | 0.0    | 20216.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 237.9   | 1.2       |
| 10°-20°   | 833.2   | 4.1       |
| 20°-30°   | 1607.9  | 8.0       |
| 30°-40°   | 2791.4  | 13.8      |
| 40°-50°   | 4053.0  | 20.0      |
| 50°-60°   | 4654.3  | 23.0      |
| 60°-70°   | 4040.8  | 20.0      |
| 70°-80°   | 1903.3  | 9.4       |
| 80°-90°   | 94.1    | 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°    | 20216.0 | 100.0     |
| 0°-180°   | 20216.0 | 100.0     |

**Coefficient of Utilization**

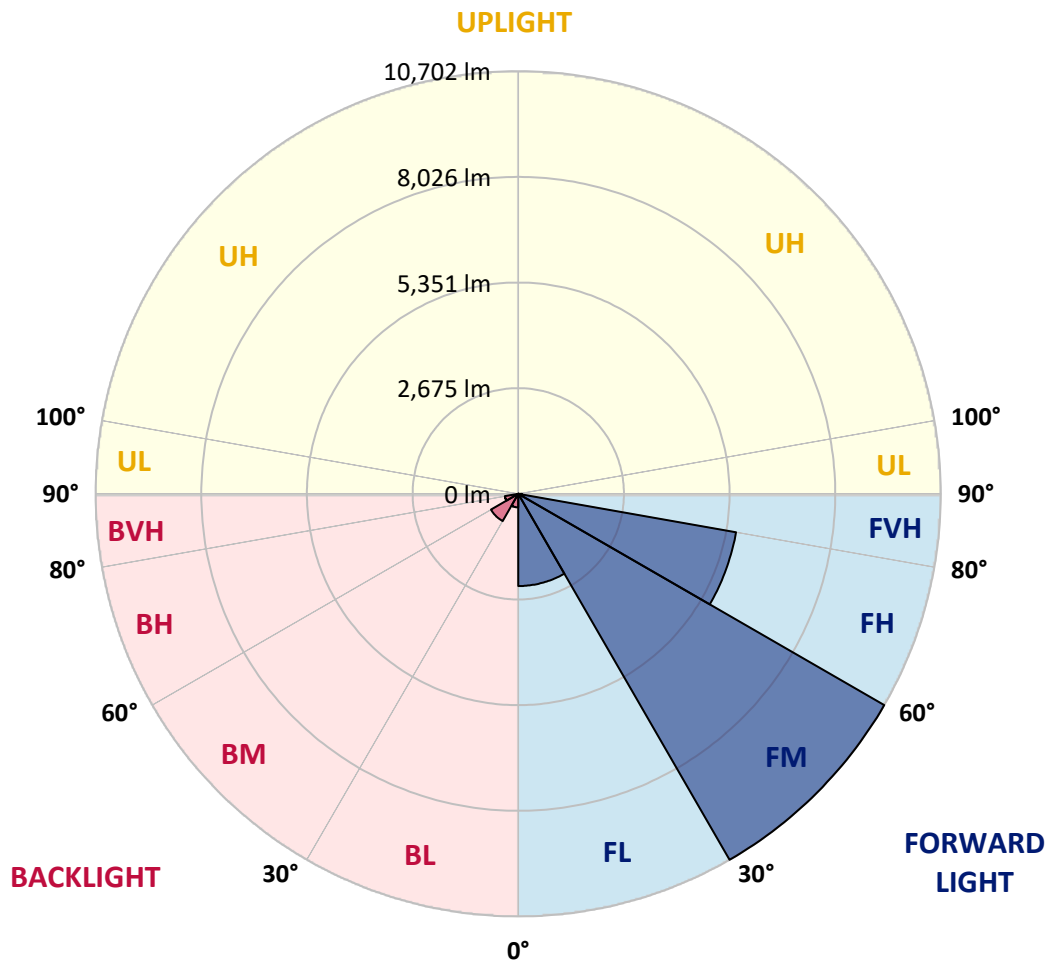


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2334.7  | 11.5      |                         |      |         |
| FM (30°-60°)   | 10701.8 | 52.9      |                         |      |         |
| FH (60°-80°)   | 5599.8  | 27.7      |                         |      | G3/7500 |
| FVH (80°-90°)  | 92.4    | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 344.3   | 1.7       | B1/500                  |      |         |
| BM (30°-60°)   | 796.9   | 3.9       | B1/1000                 |      |         |
| BH (60°-80°)   | 344.3   | 1.7       | 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-G3**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2331.2  | 2331.2  | 2331.2  | 2331.2  | 2331.2  | 2331.2  | 2331.2  | 2331.2  | 2331.2  | 2331.2  |
| 2.5°  | 3227.5  | 3247.6  | 3218.7  | 3163.5  | 3080.7  | 3026.7  | 2894.9  | 2770.6  | 2632.5  | 2588.6  |
| 5°    | 3934.3  | 3951.9  | 3919.2  | 3859.0  | 3748.5  | 3643.1  | 3469.8  | 3210.0  | 2940.1  | 2853.4  |
| 7.5°  | 4457.8  | 4467.8  | 4455.3  | 4400.0  | 4294.6  | 4175.3  | 3982.0  | 3674.4  | 3274.0  | 3178.6  |
| 10°   | 4834.4  | 4867.0  | 4863.3  | 4841.9  | 4771.6  | 4675.0  | 4469.1  | 4118.8  | 3648.1  | 3525.0  |
| 12.5° | 5084.2  | 5120.6  | 5142.0  | 5189.7  | 5185.9  | 5124.4  | 4943.6  | 4573.3  | 4020.9  | 3876.5  |
| 15°   | 5157.0  | 5195.9  | 5277.5  | 5388.0  | 5485.9  | 5517.3  | 5390.5  | 5018.9  | 4431.4  | 4246.9  |
| 17.5° | 5115.6  | 5175.8  | 5273.8  | 5448.3  | 5662.9  | 5804.8  | 5791.0  | 5449.5  | 4804.3  | 4593.4  |
| 20°   | 5207.2  | 5265.0  | 5341.6  | 5488.4  | 5738.2  | 5995.6  | 6098.5  | 5861.3  | 5174.6  | 4953.6  |
| 22.5° | 5714.4  | 5704.4  | 5711.9  | 5735.7  | 5885.1  | 6140.0  | 6352.1  | 6235.4  | 5541.2  | 5315.2  |
| 25°   | 6517.8  | 6472.6  | 6396.1  | 6266.8  | 6229.1  | 6352.1  | 6573.1  | 6566.8  | 5927.8  | 5685.5  |
| 27.5° | 7439.3  | 7431.7  | 7252.2  | 6940.9  | 6765.1  | 6717.4  | 6822.9  | 6889.4  | 6310.7  | 6052.1  |
| 30°   | 8321.8  | 8341.9  | 8099.6  | 7753.1  | 7430.5  | 7243.4  | 7148.0  | 7195.7  | 6699.9  | 6447.5  |
| 32.5° | 9090.1  | 9111.4  | 8847.8  | 8442.3  | 8043.1  | 7817.1  | 7616.3  | 7498.3  | 7124.2  | 6849.2  |
| 35°   | 9739.1  | 9760.4  | 9457.9  | 9009.7  | 8584.1  | 8379.5  | 8152.3  | 7829.7  | 7551.0  | 7294.9  |
| 37.5° | 10319.1 | 10312.8 | 9907.3  | 9455.4  | 9037.3  | 8875.4  | 8756.1  | 8237.7  | 7990.4  | 7743.1  |
| 40°   | 10661.8 | 10688.1 | 10341.6 | 9843.3  | 9437.8  | 9319.8  | 9312.3  | 8743.6  | 8497.5  | 8257.8  |
| 42.5° | 10762.2 | 10808.6 | 10557.6 | 10148.3 | 9780.5  | 9652.5  | 9849.5  | 9290.9  | 9087.5  | 8854.0  |
| 45°   | 10581.4 | 10626.6 | 10512.4 | 10228.7 | 10014.0 | 9931.1  | 10311.5 | 9858.3  | 9717.7  | 9486.7  |
| 47.5° | 10054.2 | 10110.7 | 10138.3 | 10078.0 | 10075.5 | 10159.6 | 10725.8 | 10455.9 | 10465.9 | 10229.9 |
| 50°   | 9033.6  | 9129.0  | 9382.6  | 9596.0  | 9926.1  | 10340.4 | 11128.8 | 11103.7 | 11309.5 | 11106.2 |
| 52.5° | 7178.1  | 7313.7  | 8187.5  | 8771.2  | 9513.1  | 10306.5 | 11571.9 | 12143.1 | 12789.6 | 12492.1 |
| 55°   | 5768.4  | 5768.4  | 6478.9  | 7571.1  | 8707.2  | 10083.0 | 11765.2 | 12818.5 | 13797.7 | 13727.4 |
| 57.5° | 4702.6  | 4759.1  | 5212.3  | 6177.6  | 7540.9  | 9550.8  | 11884.5 | 13242.8 | 14609.9 | 14558.4 |
| 60°   | 2902.4  | 3024.2  | 3880.3  | 4833.1  | 6214.0  | 8603.0  | 11809.2 | 13672.1 | 15595.3 | 15636.8 |
| 62.5° | 1634.5  | 1679.7  | 2061.3  | 3477.3  | 4831.9  | 7328.8  | 11233.0 | 13911.9 | 16855.7 | 17031.5 |
| 65°   | 1128.6  | 1151.2  | 1298.0  | 2164.2  | 3349.3  | 5834.9  | 10106.9 | 13762.5 | 18118.6 | 18473.9 |
| 67.5° | 819.7   | 831.0   | 922.7   | 1321.9  | 1987.2  | 4230.6  | 8341.9  | 13009.3 | 18787.7 | 19381.5 |
| 70°   | 630.2   | 637.7   | 704.3   | 868.7   | 1173.8  | 2611.1  | 6058.4  | 11511.6 | 18303.1 | 19012.4 |
| 72.5° | 512.2   | 519.7   | 571.2   | 642.7   | 778.3   | 1544.1  | 3671.9  | 9348.7  | 16164.0 | 16929.8 |
| 75°   | 431.8   | 441.9   | 488.3   | 534.8   | 610.1   | 991.7   | 1722.4  | 6510.3  | 12155.6 | 12657.8 |
| 77.5° | 239.8   | 220.9   | 396.7   | 443.1   | 514.7   | 627.7   | 805.9   | 3831.4  | 6807.8  | 6947.2  |
| 80°   | 149.4   | 154.4   | 315.1   | 356.5   | 395.4   | 316.4   | 369.1   | 1475.0  | 2360.1  | 2242.1  |
| 82.5° | 8.8     | 20.1    | 242.3   | 257.3   | 271.2   | 135.6   | 139.3   | 500.9   | 568.7   | 522.2   |
| 85°   | 0.0     | 0.0     | 110.5   | 89.1    | 94.2    | 38.9    | 40.2    | 116.7   | 76.6    | 82.9    |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.5     | 0.0     | 3.8     | 7.5     | 10.0    | 3.8     | 5.0     |
| 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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**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2331.2  | 0°    | 2331.2 | 2331.2 | 2331.2 | 2331.2 | 2331.2 | 2331.2 | 2331.2 | 2331.2 | 2331.2 | 2331.2 |
| 2450.5  | 2.5°  | 2362.6 | 2274.7 | 2096.4 | 1922.0 | 1780.1 | 1648.3 | 1554.1 | 1465.0 | 1419.8 | 1417.3 |
| 2608.6  | 5°    | 2434.1 | 2249.6 | 1893.1 | 1578.0 | 1324.4 | 1121.0 | 989.2  | 895.1  | 847.4  | 831.0  |
| 2803.2  | 7.5°  | 2534.6 | 2257.1 | 1714.8 | 1276.7 | 977.9  | 803.4  | 728.1  | 698.0  | 687.9  | 676.6  |
| 3022.9  | 10°   | 2661.4 | 2274.7 | 1555.4 | 1028.1 | 770.8  | 682.9  | 652.8  | 640.2  | 632.7  | 625.2  |
| 3270.2  | 12.5° | 2803.2 | 2291.0 | 1397.2 | 853.6  | 677.9  | 632.7  | 611.4  | 596.3  | 586.3  | 577.5  |
| 3523.8  | 15°   | 2941.3 | 2301.1 | 1232.8 | 731.9  | 630.2  | 593.8  | 571.2  | 554.9  | 541.1  | 531.0  |
| 3772.4  | 17.5° | 3078.1 | 2314.9 | 1078.4 | 659.1  | 591.3  | 554.9  | 532.3  | 512.2  | 500.9  | 489.6  |
| 4033.5  | 20°   | 3230.0 | 2312.4 | 932.7  | 607.6  | 552.4  | 516.0  | 492.1  | 473.3  | 462.0  | 449.4  |
| 4309.6  | 22.5° | 3370.6 | 2299.8 | 804.7  | 563.7  | 512.2  | 477.0  | 450.7  | 431.8  | 420.5  | 410.5  |
| 4592.1  | 25°   | 3532.6 | 2289.8 | 698.0  | 523.5  | 474.5  | 439.4  | 410.5  | 392.9  | 380.4  | 371.6  |
| 4875.8  | 27.5° | 3688.2 | 2274.7 | 620.1  | 487.1  | 438.1  | 404.2  | 376.6  | 356.5  | 345.2  | 338.9  |
| 5168.3  | 30°   | 3841.4 | 2270.9 | 591.3  | 451.9  | 405.5  | 371.6  | 344.0  | 325.1  | 316.4  | 313.8  |
| 5489.7  | 32.5° | 4025.9 | 2281.0 | 603.8  | 439.4  | 375.4  | 341.5  | 315.1  | 301.3  | 292.5  | 292.5  |
| 5847.5  | 35°   | 4223.0 | 2278.5 | 622.7  | 450.7  | 355.3  | 311.3  | 291.2  | 282.5  | 273.7  | 273.7  |
| 6244.2  | 37.5° | 4470.3 | 2282.2 | 637.7  | 469.5  | 347.7  | 286.2  | 274.9  | 263.6  | 258.6  | 258.6  |
| 6678.5  | 40°   | 4839.4 | 2406.5 | 630.2  | 485.8  | 345.2  | 268.6  | 246.1  | 242.3  | 238.5  | 238.5  |
| 7169.4  | 42.5° | 5291.3 | 2676.4 | 640.2  | 487.1  | 344.0  | 256.1  | 226.0  | 233.5  | 224.7  | 223.5  |
| 7723.0  | 45°   | 5786.0 | 2971.4 | 704.3  | 460.7  | 342.7  | 249.8  | 215.9  | 224.7  | 210.9  | 210.9  |
| 8364.5  | 47.5° | 6276.8 | 3263.9 | 769.5  | 423.1  | 338.9  | 248.6  | 207.1  | 202.1  | 198.3  | 199.6  |
| 9200.5  | 50°   | 6953.4 | 3502.5 | 794.6  | 371.6  | 330.2  | 246.1  | 190.8  | 192.1  | 189.6  | 192.1  |
| 10379.3 | 52.5° | 7690.3 | 3552.7 | 764.5  | 313.8  | 305.1  | 238.5  | 179.5  | 184.5  | 183.3  | 185.8  |
| 11209.1 | 55°   | 8149.8 | 3498.7 | 631.4  | 261.1  | 266.1  | 208.4  | 168.2  | 178.3  | 178.3  | 178.3  |
| 12020.1 | 57.5° | 8624.3 | 3269.0 | 448.2  | 212.2  | 220.9  | 170.7  | 158.2  | 172.0  | 170.7  | 169.5  |
| 12996.7 | 60°   | 8965.8 | 2897.4 | 295.0  | 174.5  | 175.8  | 140.6  | 146.9  | 161.9  | 160.7  | 154.4  |
| 14003.5 | 62.5° | 9220.6 | 2486.9 | 189.6  | 148.1  | 134.3  | 126.8  | 134.3  | 146.9  | 141.9  | 128.0  |
| 14857.2 | 65°   | 9191.7 | 1918.2 | 145.6  | 126.8  | 110.5  | 110.5  | 116.7  | 128.0  | 113.0  | 90.4   |
| 15020.4 | 67.5° | 8655.7 | 1298.0 | 120.5  | 106.7  | 92.9   | 91.6   | 96.7   | 106.7  | 96.7   | 76.6   |
| 14184.3 | 70°   | 7697.9 | 848.6  | 96.7   | 82.9   | 74.1   | 67.8   | 77.8   | 91.6   | 81.6   | 61.5   |
| 12075.3 | 72.5° | 6247.9 | 517.2  | 72.8   | 60.3   | 54.0   | 43.9   | 61.5   | 75.3   | 65.3   | 45.2   |
| 8397.1  | 75°   | 4042.3 | 263.6  | 50.2   | 38.9   | 28.9   | 26.4   | 45.2   | 56.5   | 45.2   | 27.6   |
| 3725.9  | 77.5° | 1546.6 | 110.5  | 27.6   | 17.6   | 15.1   | 12.6   | 25.1   | 33.9   | 18.8   | 6.3    |
| 721.8   | 80°   | 297.5  | 46.4   | 13.8   | 8.8    | 7.5    | 5.0    | 3.8    | 2.5    | 0.0    | 0.0    |
| 128.0   | 82.5° | 51.5   | 15.1   | 5.0    | 2.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 25.1    | 85°   | 17.6   | 2.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 8.8     | 87.5° | 6.3    | 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°   |
| <hr/>  |
| 2331.2 |
| 1414.8 |
| 828.5  |
| 674.1  |
| 622.7  |
| 575.0  |
| 529.8  |
| 488.3  |
| 448.2  |
| 409.2  |
| 370.3  |
| 338.9  |
| 312.6  |
| 292.5  |
| 273.7  |
| 258.6  |
| 238.5  |
| 222.2  |
| 210.9  |
| 199.6  |
| 192.1  |
| 185.8  |
| 178.3  |
| 169.5  |
| 154.4  |
| 125.5  |
| 87.9   |
| 74.1   |
| 59.0   |
| 42.7   |
| 23.9   |
| 5.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

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