

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: P852136

Luminaire Tested: **GLAN-SB1C-840-U-T4FT-HSS**

Issue Date: 7/11/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P852136  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB1C-840-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5044 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

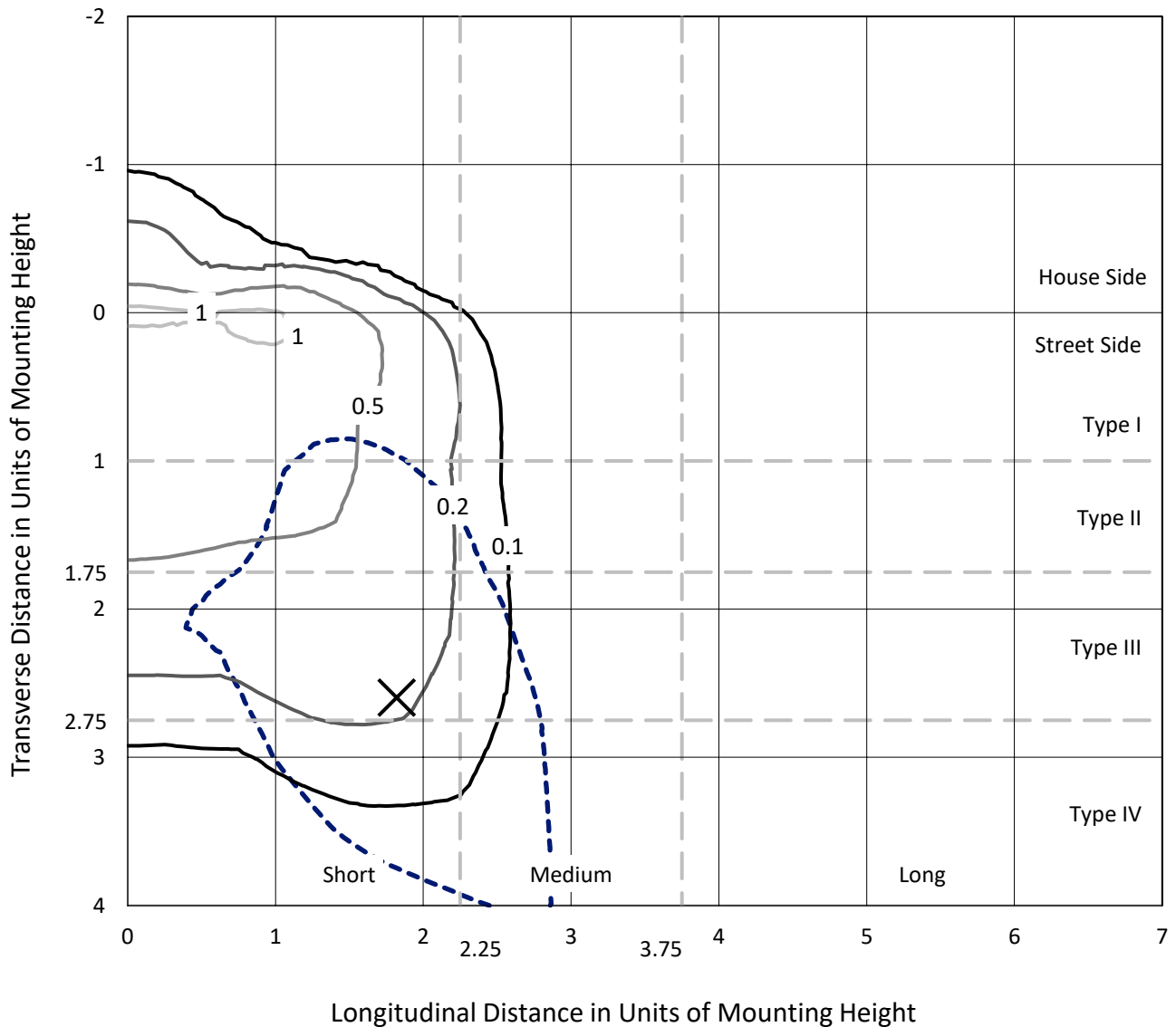
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

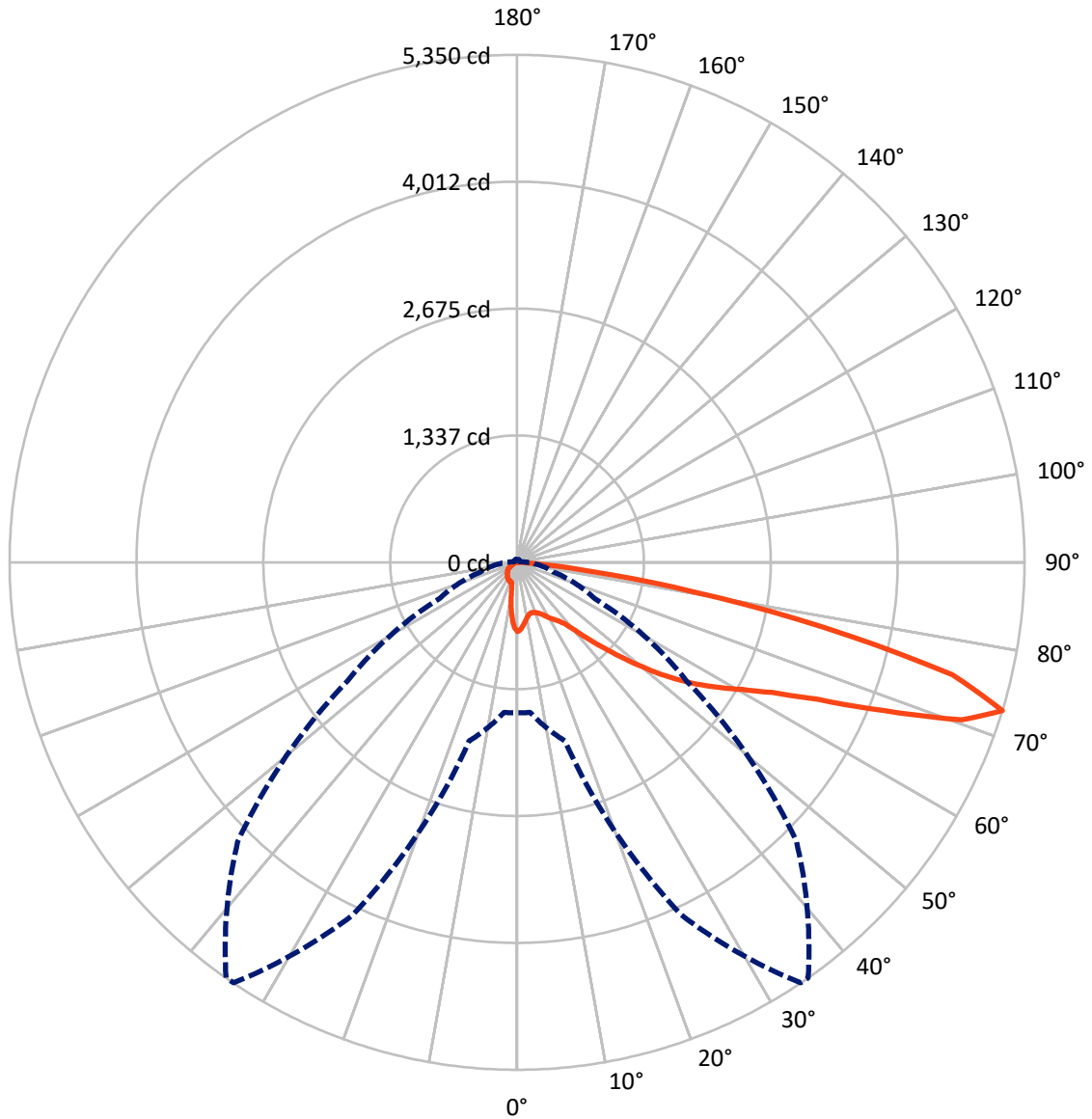
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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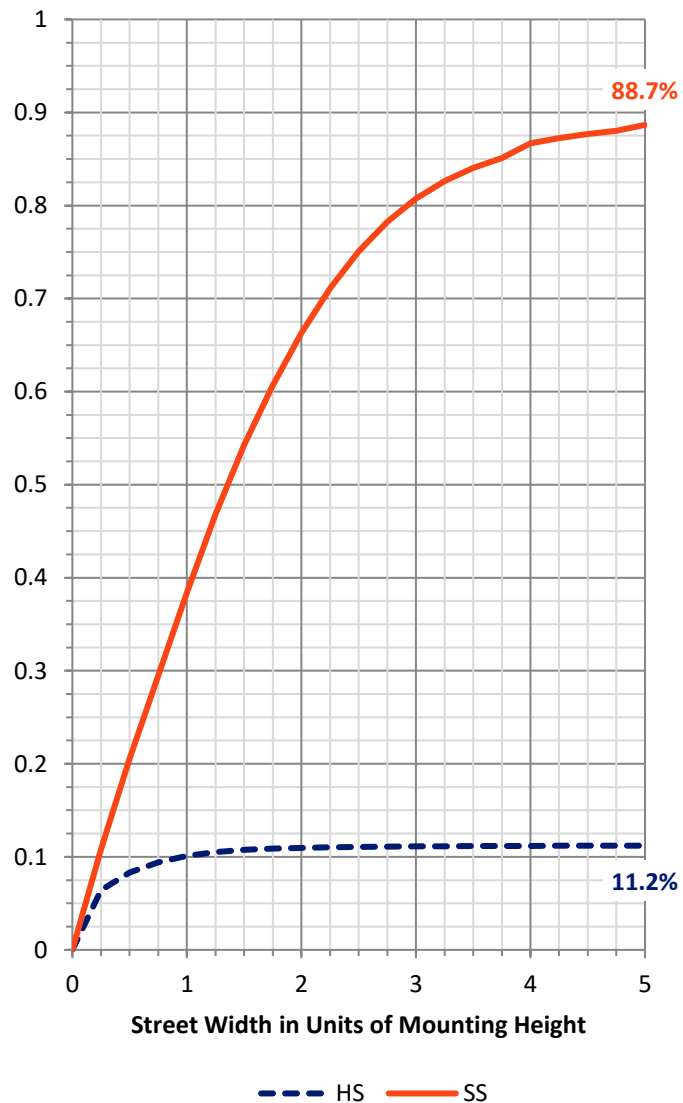
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 567.7    | 0.0    | 567.7  |
|                    | % Fixture | 11.3     | 0.0    | 11.3   |
| <b>Street Side</b> | Lumens    | 4476.3   | 0.0    | 4476.3 |
|                    | % Fixture | 88.7     | 0.0    | 88.7   |
| <b>Total</b>       | Lumens    | 5044.0   | 0.0    | 5044.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.1   | 1.2       |
| 10°-20°   | 140.5  | 2.8       |
| 20°-30°   | 228.3  | 4.5       |
| 30°-40°   | 380.9  | 7.6       |
| 40°-50°   | 720.7  | 14.3      |
| 50°-60°   | 1145.2 | 22.7      |
| 60°-70°   | 1416.6 | 28.1      |
| 70°-80°   | 880.6  | 17.5      |
| 80°-90°   | 71.2   | 1.4       |
| 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°    | 5044.0 | 100.0     |
| 0°-180°   | 5044.0 | 100.0     |

**Coefficient of Utilization**



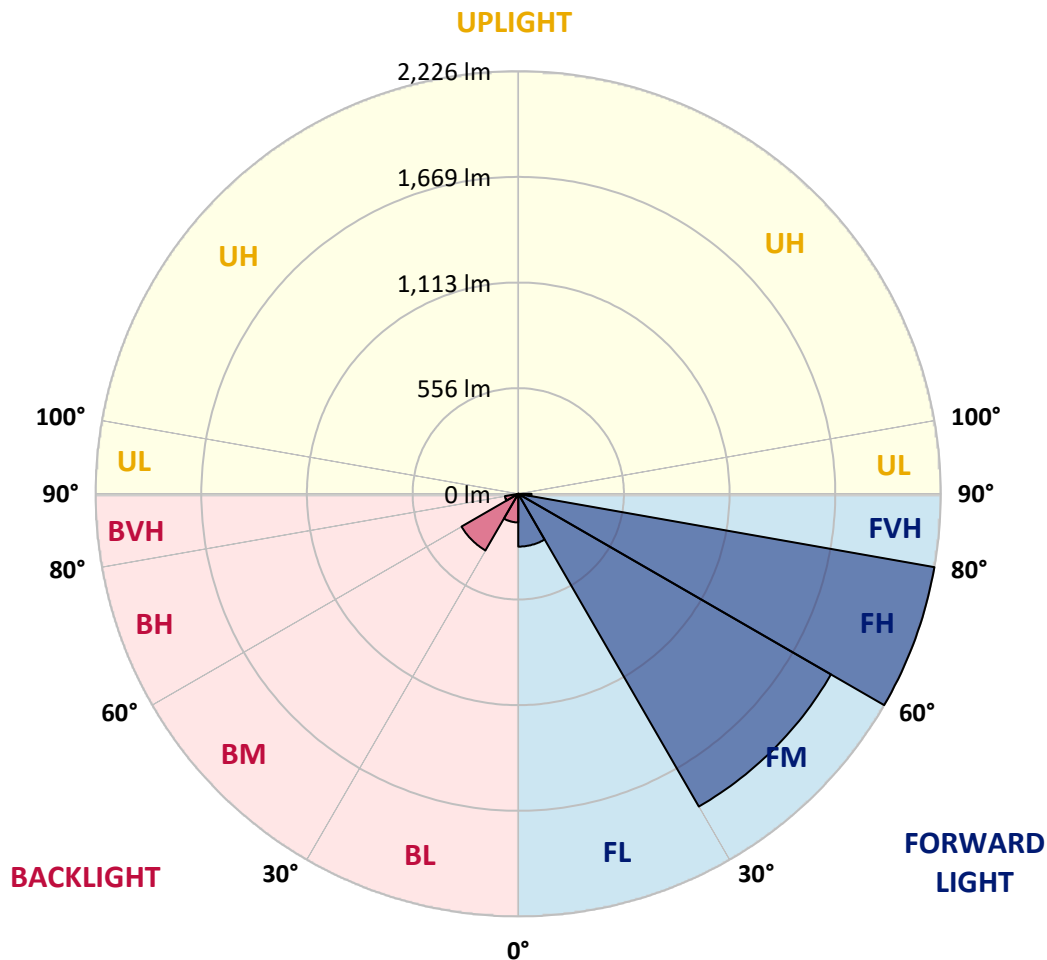
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 278.1  | 5.5       |                         |      |         |
| FM (30°-60°)   | 1902.1 | 37.7      |                         |      |         |
| FH (60°-80°)   | 2226.0 | 44.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 70.2   | 1.4       |                         |      | G1/100  |
| BL (0°-30°)    | 150.8  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 344.6  | 6.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 71.2   | 1.4       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 1.0    | 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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 34°    | 35°    | 45°    | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 731.0  | 731.0  | 731.0  | 731.0  | 731.0  | 731.0  | 731.0  | 731.0  | 731.0  | 731.0  |
| 2.5°  | 698.5  | 704.4  | 705.5  | 707.4  | 707.4  | 709.6  | 713.3  | 718.5  | 727.0  | 731.4  |
| 5°    | 643.8  | 648.3  | 653.8  | 658.2  | 666.7  | 667.8  | 682.3  | 696.3  | 715.9  | 730.7  |
| 7.5°  | 588.8  | 593.9  | 601.3  | 612.0  | 623.1  | 626.5  | 648.3  | 671.9  | 703.0  | 730.7  |
| 10°   | 549.9  | 550.3  | 557.0  | 567.7  | 585.4  | 589.5  | 616.1  | 649.7  | 688.5  | 726.2  |
| 12.5° | 528.1  | 530.7  | 533.7  | 541.8  | 558.8  | 561.4  | 589.9  | 629.4  | 674.1  | 723.7  |
| 15°   | 528.1  | 530.0  | 531.8  | 535.9  | 549.6  | 551.8  | 576.9  | 616.5  | 666.7  | 724.8  |
| 17.5° | 533.7  | 536.6  | 535.2  | 540.0  | 554.4  | 555.9  | 578.0  | 612.8  | 666.4  | 731.8  |
| 20°   | 547.0  | 549.2  | 546.3  | 549.2  | 563.6  | 566.6  | 589.5  | 619.8  | 672.6  | 744.0  |
| 22.5° | 568.1  | 569.2  | 562.1  | 564.4  | 579.1  | 582.8  | 609.5  | 639.8  | 687.8  | 763.6  |
| 25°   | 594.7  | 596.9  | 586.2  | 588.8  | 602.8  | 607.2  | 637.9  | 669.7  | 711.8  | 790.5  |
| 27.5° | 625.3  | 626.5  | 617.2  | 616.8  | 635.0  | 641.2  | 672.3  | 706.7  | 744.0  | 824.6  |
| 30°   | 660.5  | 663.8  | 654.9  | 653.4  | 676.3  | 681.5  | 712.2  | 752.1  | 791.3  | 875.6  |
| 32.5° | 688.2  | 690.8  | 685.6  | 689.3  | 712.6  | 716.6  | 760.6  | 816.4  | 865.6  | 948.0  |
| 35°   | 728.1  | 729.6  | 717.7  | 724.4  | 751.0  | 761.4  | 826.8  | 906.6  | 959.1  | 1038.9 |
| 37.5° | 872.6  | 872.6  | 822.3  | 789.4  | 814.9  | 824.2  | 917.3  | 1020.1 | 1074.4 | 1160.9 |
| 40°   | 1072.5 | 1069.2 | 995.7  | 928.4  | 925.1  | 943.2  | 1046.3 | 1163.1 | 1223.3 | 1307.2 |
| 42.5° | 1285.8 | 1280.6 | 1180.5 | 1113.9 | 1102.9 | 1109.1 | 1195.2 | 1339.4 | 1400.7 | 1485.7 |
| 45°   | 1475.0 | 1473.5 | 1381.9 | 1292.4 | 1272.5 | 1292.4 | 1381.1 | 1545.6 | 1589.6 | 1679.0 |
| 47.5° | 1633.6 | 1633.6 | 1566.7 | 1508.3 | 1497.9 | 1509.8 | 1632.8 | 1774.4 | 1770.3 | 1884.9 |
| 50°   | 1816.2 | 1814.7 | 1751.1 | 1726.0 | 1736.7 | 1753.3 | 1922.6 | 2015.4 | 1957.3 | 2087.1 |
| 52.5° | 1944.0 | 1952.9 | 1931.1 | 1927.0 | 1981.7 | 2010.6 | 2216.8 | 2251.2 | 2124.8 | 2278.9 |
| 55°   | 2045.3 | 2055.6 | 2080.8 | 2109.2 | 2214.6 | 2252.3 | 2501.7 | 2474.8 | 2264.8 | 2445.2 |
| 57.5° | 2188.7 | 2173.9 | 2212.7 | 2268.9 | 2439.3 | 2484.7 | 2777.8 | 2685.8 | 2377.6 | 2580.1 |
| 60°   | 2362.8 | 2365.0 | 2371.6 | 2442.6 | 2663.6 | 2722.0 | 3049.8 | 2885.4 | 2450.0 | 2662.9 |
| 62.5° | 2572.0 | 2575.3 | 2589.0 | 2698.0 | 2964.8 | 3019.9 | 3339.6 | 3048.7 | 2483.3 | 2639.6 |
| 65°   | 2557.5 | 2571.6 | 2724.2 | 3097.1 | 3422.8 | 3477.1 | 3677.8 | 3163.3 | 2433.0 | 2426.7 |
| 67.5° | 2329.9 | 2352.8 | 2608.2 | 3573.9 | 4113.1 | 4173.8 | 4086.5 | 3185.8 | 2216.0 | 1887.1 |
| 70°   | 2031.3 | 2039.4 | 2346.5 | 4002.6 | 4912.6 | 4973.9 | 4452.4 | 2937.9 | 1681.6 | 1052.6 |
| 72.5° | 1586.3 | 1588.1 | 1948.5 | 4102.1 | 5346.5 | 5349.8 | 4165.3 | 2180.9 | 904.4  | 404.3  |
| 75°   | 1133.2 | 1122.1 | 1305.0 | 3326.7 | 4703.7 | 4741.4 | 3122.6 | 1023.0 | 345.6  | 191.1  |
| 77.5° | 607.6  | 619.8  | 738.4  | 1972.9 | 3249.4 | 3313.7 | 1703.8 | 294.9  | 175.9  | 130.1  |
| 80°   | 187.8  | 198.1  | 302.7  | 903.3  | 1840.5 | 1879.4 | 631.6  | 131.2  | 122.7  | 92.8   |
| 82.5° | 59.1   | 61.4   | 141.2  | 379.6  | 763.9  | 781.7  | 182.9  | 74.3   | 83.9   | 61.4   |
| 85°   | 17.0   | 17.4   | 62.8   | 141.6  | 188.9  | 192.6  | 51.4   | 28.8   | 48.0   | 38.1   |
| 87.5° | 1.8    | 5.9    | 23.7   | 23.7   | 16.6   | 16.3   | 5.5    | 6.3    | 13.7   | 4.8    |
| 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°  |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 731.0  | 0°    | 731.0  | 731.0  | 731.0 | 731.0 | 731.0 | 731.0 | 731.0 | 731.0 | 731.0 | 731.0 |
| 734.4  | 2.5°  | 732.5  | 732.9  | 728.1 | 720.0 | 711.1 | 703.7 | 694.5 | 687.1 | 681.9 | 680.4 |
| 741.0  | 5°    | 737.7  | 735.1  | 721.4 | 696.7 | 667.1 | 641.6 | 613.1 | 590.6 | 575.8 | 569.5 |
| 748.0  | 7.5°  | 745.5  | 738.1  | 708.1 | 659.3 | 602.8 | 552.5 | 501.5 | 462.0 | 436.9 | 424.3 |
| 754.7  | 10°   | 752.1  | 737.3  | 686.0 | 605.4 | 518.9 | 442.8 | 374.0 | 326.3 | 299.7 | 287.2 |
| 762.5  | 12.5° | 758.4  | 737.0  | 657.1 | 541.4 | 424.3 | 331.2 | 267.2 | 243.6 | 236.2 | 233.6 |
| 775.0  | 15°   | 770.2  | 738.1  | 620.9 | 468.3 | 330.0 | 250.2 | 226.9 | 226.6 | 228.0 | 227.3 |
| 794.2  | 17.5° | 786.5  | 739.2  | 579.9 | 390.7 | 254.6 | 220.6 | 219.5 | 222.9 | 225.1 | 224.0 |
| 818.3  | 20°   | 807.5  | 743.6  | 536.3 | 313.8 | 218.8 | 213.3 | 215.8 | 218.8 | 220.6 | 218.8 |
| 850.4  | 22.5° | 837.1  | 751.4  | 488.6 | 252.1 | 207.3 | 208.8 | 211.0 | 214.4 | 216.2 | 213.6 |
| 891.4  | 25°   | 873.3  | 763.6  | 441.7 | 219.2 | 201.8 | 203.6 | 207.0 | 210.7 | 212.9 | 210.3 |
| 943.2  | 27.5° | 920.3  | 783.2  | 398.4 | 211.8 | 196.3 | 197.4 | 202.2 | 207.7 | 210.7 | 207.3 |
| 1016.7 | 30°   | 988.3  | 815.3  | 361.1 | 215.1 | 192.9 | 190.3 | 197.0 | 204.8 | 208.1 | 205.1 |
| 1116.9 | 32.5° | 1078.5 | 860.8  | 338.2 | 220.3 | 191.4 | 182.2 | 188.5 | 198.5 | 204.0 | 202.2 |
| 1247.7 | 35°   | 1196.7 | 929.9  | 329.3 | 226.2 | 190.3 | 173.7 | 178.1 | 188.9 | 198.5 | 200.3 |
| 1412.6 | 37.5° | 1340.1 | 1026.0 | 331.9 | 228.8 | 187.0 | 166.7 | 168.9 | 178.1 | 190.7 | 196.6 |
| 1598.1 | 40°   | 1503.1 | 1138.0 | 346.7 | 226.2 | 183.3 | 160.8 | 161.1 | 168.2 | 179.3 | 188.1 |
| 1797.7 | 42.5° | 1671.3 | 1268.8 | 374.0 | 216.6 | 180.0 | 155.6 | 154.5 | 159.3 | 166.7 | 173.0 |
| 1996.9 | 45°   | 1831.3 | 1403.3 | 401.0 | 203.3 | 175.9 | 150.4 | 147.8 | 149.7 | 151.2 | 153.7 |
| 2190.9 | 47.5° | 1971.0 | 1497.9 | 393.2 | 191.1 | 170.4 | 144.5 | 140.1 | 139.3 | 134.9 | 134.5 |
| 2364.3 | 50°   | 2067.5 | 1518.6 | 349.3 | 178.9 | 162.2 | 137.9 | 130.8 | 126.4 | 118.6 | 114.9 |
| 2494.0 | 52.5° | 2098.2 | 1437.0 | 285.3 | 166.7 | 148.9 | 129.0 | 119.0 | 112.0 | 102.4 | 99.0  |
| 2568.6 | 55°   | 2057.5 | 1276.9 | 228.0 | 151.9 | 130.5 | 117.2 | 106.1 | 96.8  | 89.1  | 85.0  |
| 2576.8 | 57.5° | 1958.1 | 1073.3 | 180.4 | 134.5 | 110.9 | 103.9 | 92.8  | 83.5  | 76.9  | 72.8  |
| 2486.6 | 60°   | 1793.2 | 852.3  | 142.7 | 113.8 | 94.6  | 89.4  | 78.0  | 72.1  | 66.2  | 61.4  |
| 2253.7 | 62.5° | 1543.0 | 608.3  | 112.0 | 90.2  | 79.1  | 73.2  | 66.5  | 62.1  | 55.1  | 48.4  |
| 1835.0 | 65°   | 1204.1 | 372.2  | 86.5  | 66.2  | 63.6  | 60.6  | 56.5  | 52.5  | 44.0  | 37.3  |
| 1197.1 | 67.5° | 759.5  | 176.3  | 61.7  | 49.9  | 50.3  | 48.8  | 46.9  | 43.6  | 37.3  | 31.4  |
| 536.3  | 70°   | 334.5  | 85.4   | 40.7  | 38.1  | 37.3  | 37.3  | 38.8  | 37.7  | 31.8  | 26.2  |
| 186.3  | 72.5° | 113.8  | 45.8   | 30.3  | 28.8  | 27.0  | 26.6  | 32.5  | 31.4  | 25.5  | 20.3  |
| 92.8   | 75°   | 59.5   | 30.7   | 22.2  | 20.7  | 16.3  | 19.6  | 25.9  | 24.4  | 18.1  | 13.3  |
| 61.4   | 77.5° | 38.8   | 21.8   | 15.2  | 13.3  | 9.2   | 12.9  | 19.2  | 17.0  | 10.7  | 6.7   |
| 40.3   | 80°   | 24.4   | 14.4   | 8.9   | 6.3   | 4.4   | 7.0   | 10.3  | 7.4   | 4.1   | 1.5   |
| 23.7   | 82.5° | 12.9   | 7.4    | 3.3   | 2.2   | 1.8   | 2.2   | 2.6   | 1.8   | 0.7   | 0.0   |
| 12.2   | 85°   | 5.2    | 2.6    | 1.1   | 0.7   | 0.4   | 0.0   | 0.7   | 0.4   | 0.0   | 0.0   |
| 2.2    | 87.5° | 1.8    | 0.4    | 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/> |
| 731.0 |
| 683.0 |
| 571.8 |
| 426.1 |
| 287.5 |
| 232.8 |
| 226.9 |
| 223.6 |
| 218.4 |
| 213.3 |
| 209.9 |
| 207.3 |
| 204.8 |
| 202.2 |
| 200.3 |
| 198.1 |
| 191.1 |
| 175.6 |
| 155.2 |
| 134.2 |
| 115.3 |
| 98.7  |
| 85.0  |
| 72.1  |
| 60.2  |
| 47.3  |
| 36.2  |
| 30.7  |
| 25.1  |
| 19.2  |
| 12.2  |
| 5.9   |
| 1.1   |
| 0.0   |
| 0.0   |
| 0.0   |
| 0.0   |

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