

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: P852648

Luminaire Tested: **GLAN-SB5B-850-U-T4FT-HSS**

Issue Date: 7/11/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P852648  
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-SB5B-850-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18492 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

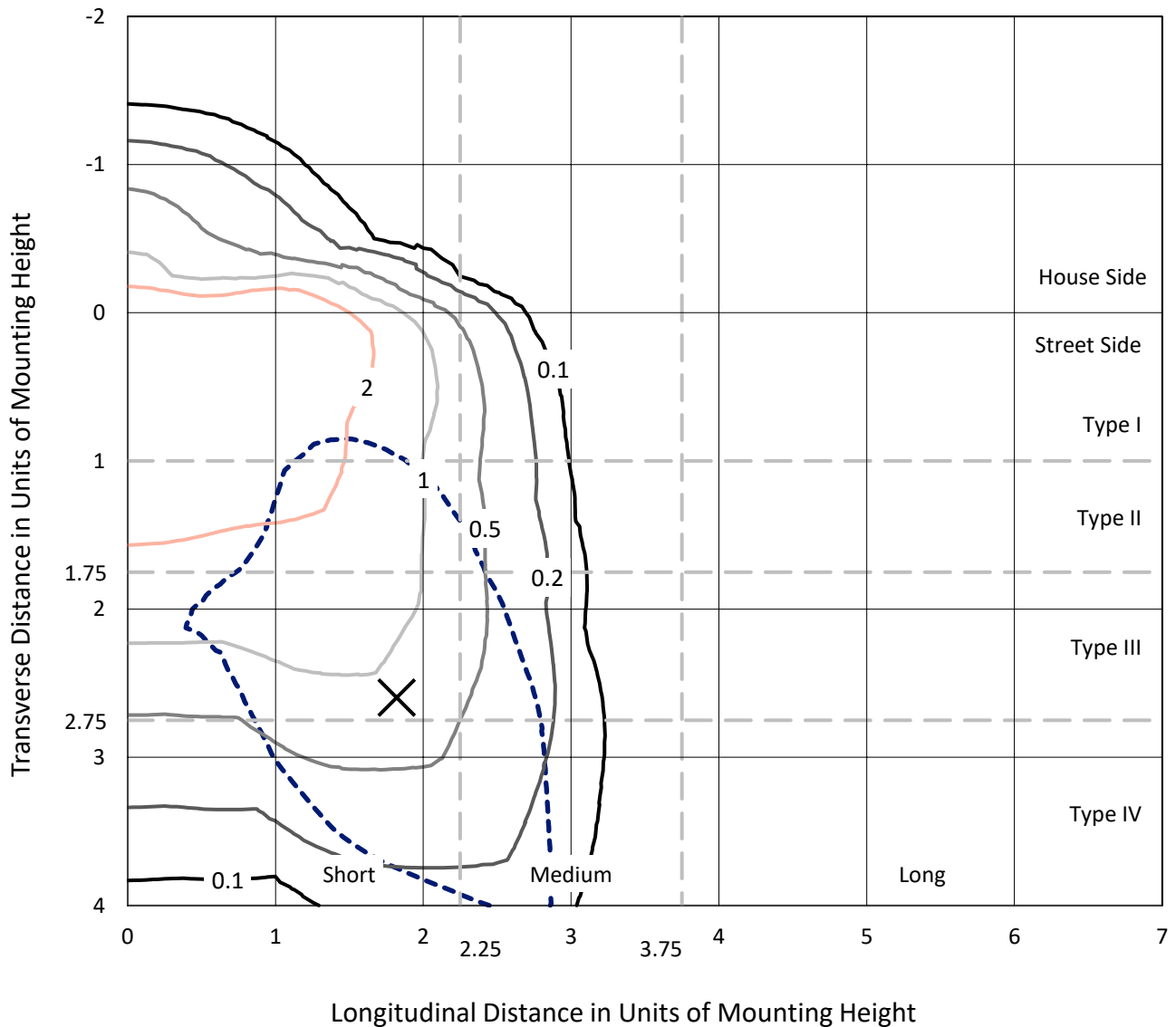
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

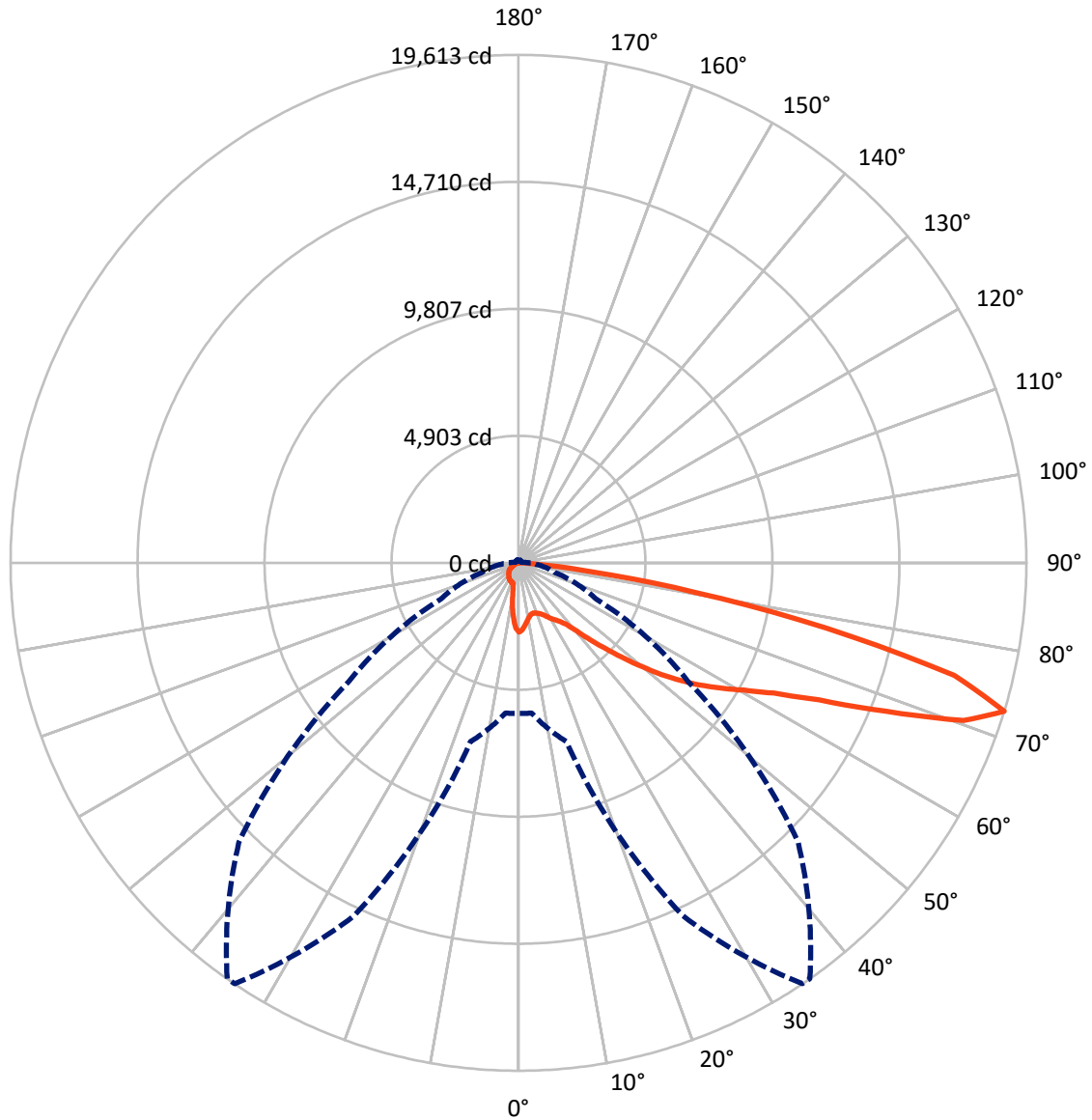
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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    | 2081.2   | 0.0    | 2081.2  |
|                    | % Fixture | 11.3     | 0.0    | 11.3    |
| <b>Street Side</b> | Lumens    | 16410.8  | 0.0    | 16410.8 |
|                    | % Fixture | 88.7     | 0.0    | 88.7    |
| <b>Total</b>       | Lumens    | 18492.0  | 0.0    | 18492.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 220.2   | 1.2       |
| 10°-20°   | 515.2   | 2.8       |
| 20°-30°   | 836.9   | 4.5       |
| 30°-40°   | 1396.4  | 7.6       |
| 40°-50°   | 2642.1  | 14.3      |
| 50°-60°   | 4198.3  | 22.7      |
| 60°-70°   | 5193.6  | 28.1      |
| 70°-80°   | 3228.4  | 17.5      |
| 80°-90°   | 260.9   | 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°    | 18492.0 | 100.0     |
| 0°-180°   | 18492.0 | 100.0     |

**Coefficient of Utilization**



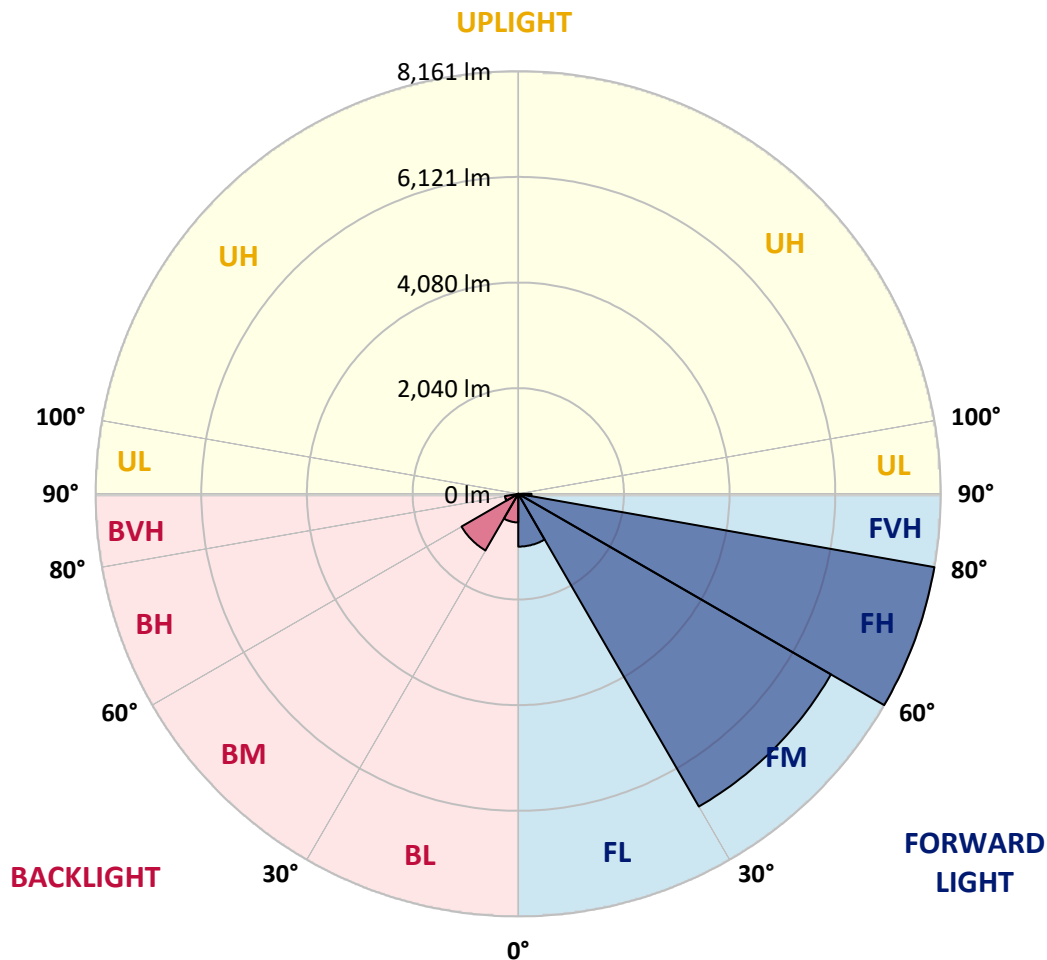
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1019.4 | 5.5       |                         |      |          |
| FM (30°-60°)   | 6973.3 | 37.7      |                         |      |          |
| FH (60°-80°)   | 8160.8 | 44.1      |                         |      | G4/12000 |
| FVH (80°-90°)  | 257.3  | 1.4       |                         |      | G3/500   |
| BL (0°-30°)    | 553.0  | 3.0       | B2/1000                 |      |          |
| BM (30°-60°)   | 1263.5 | 6.8       | B2/2500                 |      |          |
| BH (60°-80°)   | 261.2  | 1.4       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 3.6    | 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-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 34°     | 35°     | 45°     | 55°     | 65°    | 75°    |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 2680.1 | 2680.1 | 2680.1 | 2680.1  | 2680.1  | 2680.1  | 2680.1  | 2680.1  | 2680.1 | 2680.1 |
| 2.5°  | 2560.9 | 2582.6 | 2586.6 | 2593.4  | 2593.4  | 2601.5  | 2615.1  | 2634.0  | 2665.2 | 2681.5 |
| 5°    | 2360.3 | 2376.6 | 2396.9 | 2413.2  | 2444.3  | 2448.4  | 2501.3  | 2552.7  | 2624.6 | 2678.8 |
| 7.5°  | 2158.5 | 2177.4 | 2204.5 | 2243.8  | 2284.5  | 2296.7  | 2376.6  | 2463.3  | 2577.1 | 2678.8 |
| 10°   | 2016.2 | 2017.5 | 2041.9 | 2081.2  | 2146.3  | 2161.2  | 2258.7  | 2382.0  | 2524.3 | 2662.5 |
| 12.5° | 1936.2 | 1945.7 | 1956.6 | 1986.4  | 2048.7  | 2058.2  | 2162.5  | 2307.5  | 2471.4 | 2653.0 |
| 15°   | 1936.2 | 1943.0 | 1949.8 | 1964.7  | 2014.8  | 2023.0  | 2115.1  | 2260.1  | 2444.3 | 2657.1 |
| 17.5° | 1956.6 | 1967.4 | 1962.0 | 1979.6  | 2032.4  | 2037.9  | 2119.2  | 2246.5  | 2443.0 | 2682.8 |
| 20°   | 2005.3 | 2013.5 | 2002.6 | 2013.5  | 2066.3  | 2077.2  | 2161.2  | 2272.3  | 2466.0 | 2727.5 |
| 22.5° | 2082.6 | 2086.6 | 2060.9 | 2069.0  | 2123.2  | 2136.8  | 2234.3  | 2345.4  | 2521.6 | 2799.3 |
| 25°   | 2180.1 | 2188.3 | 2149.0 | 2158.5  | 2209.9  | 2226.2  | 2338.7  | 2455.2  | 2609.7 | 2898.3 |
| 27.5° | 2292.6 | 2296.7 | 2262.8 | 2261.4  | 2327.8  | 2350.9  | 2464.7  | 2590.7  | 2727.5 | 3022.9 |
| 30°   | 2421.3 | 2433.5 | 2401.0 | 2395.6  | 2479.6  | 2498.5  | 2611.0  | 2757.3  | 2901.0 | 3209.9 |
| 32.5° | 2522.9 | 2532.4 | 2513.5 | 2527.0  | 2612.4  | 2627.3  | 2788.5  | 2993.1  | 3173.3 | 3475.5 |
| 35°   | 2669.3 | 2674.7 | 2631.3 | 2655.7  | 2753.3  | 2791.2  | 3031.0  | 3323.7  | 3516.1 | 3808.8 |
| 37.5° | 3199.1 | 3199.1 | 3014.8 | 2894.2  | 2987.7  | 3021.6  | 3363.0  | 3739.7  | 3938.9 | 4255.9 |
| 40°   | 3932.1 | 3919.9 | 3650.3 | 3403.7  | 3391.5  | 3457.9  | 3835.9  | 4264.1  | 4484.9 | 4792.5 |
| 42.5° | 4713.9 | 4694.9 | 4327.7 | 4083.8  | 4043.2  | 4066.2  | 4381.9  | 4910.4  | 5135.3 | 5446.9 |
| 45°   | 5407.6 | 5402.2 | 5066.2 | 4738.3  | 4665.1  | 4738.3  | 5063.5  | 5666.4  | 5827.7 | 6155.6 |
| 47.5° | 5988.9 | 5988.9 | 5743.7 | 5529.6  | 5491.7  | 5535.0  | 5986.2  | 6505.2  | 6490.3 | 6910.3 |
| 50°   | 6658.3 | 6652.9 | 6419.8 | 6327.7  | 6367.0  | 6427.9  | 7048.5  | 7388.6  | 7175.9 | 7651.5 |
| 52.5° | 7127.1 | 7159.6 | 7079.7 | 7064.8  | 7265.3  | 7371.0  | 8127.0  | 8253.1  | 7789.7 | 8354.7 |
| 55°   | 7498.3 | 7536.3 | 7628.4 | 7732.8  | 8118.9  | 8257.1  | 9171.7  | 9072.8  | 8303.2 | 8964.4 |
| 57.5° | 8024.1 | 7969.9 | 8112.1 | 8318.1  | 8942.7  | 9109.4  | 10183.9 | 9846.5  | 8716.5 | 9459.0 |
| 60°   | 8662.3 | 8670.4 | 8694.8 | 8954.9  | 9765.2  | 9979.3  | 11181.1 | 10578.2 | 8982.0 | 9762.5 |
| 62.5° | 9429.2 | 9441.4 | 9491.5 | 9891.2  | 10869.5 | 11071.4 | 12243.4 | 11177.1 | 9104.0 | 9677.1 |
| 65°   | 9376.3 | 9427.8 | 9987.4 | 11354.6 | 12548.3 | 12747.5 | 13483.2 | 11597.1 | 8919.7 | 8896.7 |
| 67.5° | 8541.7 | 8625.7 | 9562.0 | 13102.5 | 15079.3 | 15301.6 | 14981.8 | 11679.8 | 8124.3 | 6918.4 |
| 70°   | 7446.9 | 7476.7 | 8602.6 | 14674.2 | 18010.1 | 18235.1 | 16323.2 | 10770.6 | 6165.1 | 3858.9 |
| 72.5° | 5815.5 | 5822.3 | 7143.3 | 15038.7 | 19600.9 | 19613.0 | 15270.4 | 7995.6  | 3315.6 | 1482.3 |
| 75°   | 4154.3 | 4113.7 | 4784.4 | 12196.0 | 17244.6 | 17382.8 | 11448.1 | 3750.5  | 1266.9 | 700.5  |
| 77.5° | 2227.6 | 2272.3 | 2707.2 | 7232.8  | 11912.8 | 12148.6 | 6246.4  | 1081.3  | 645.0  | 476.9  |
| 80°   | 688.3  | 726.3  | 1109.7 | 3311.5  | 6747.7  | 6890.0  | 2315.6  | 481.0   | 449.8  | 340.1  |
| 82.5° | 216.8  | 224.9  | 517.6  | 1391.5  | 2800.7  | 2865.7  | 670.7   | 272.3   | 307.6  | 224.9  |
| 85°   | 62.3   | 63.7   | 230.3  | 518.9   | 692.4   | 705.9   | 188.3   | 105.7   | 176.1  | 139.6  |
| 87.5° | 6.8    | 21.7   | 86.7   | 86.7    | 61.0    | 59.6    | 20.3    | 23.0    | 50.1   | 17.6   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2680.1 | 0°    | 2680.1 | 2680.1 | 2680.1 | 2680.1 | 2680.1 | 2680.1 | 2680.1 | 2680.1 | 2680.1 | 2680.1 |
| 2692.3 | 2.5°  | 2685.5 | 2686.9 | 2669.3 | 2639.5 | 2606.9 | 2579.8 | 2546.0 | 2518.9 | 2499.9 | 2494.5 |
| 2716.7 | 5°    | 2704.5 | 2695.0 | 2644.9 | 2554.1 | 2445.7 | 2352.2 | 2247.9 | 2165.2 | 2111.0 | 2088.0 |
| 2742.4 | 7.5°  | 2733.0 | 2705.9 | 2596.1 | 2417.2 | 2209.9 | 2025.7 | 1838.7 | 1693.7 | 1601.6 | 1555.5 |
| 2766.8 | 10°   | 2757.3 | 2703.1 | 2514.8 | 2219.4 | 1902.4 | 1623.2 | 1371.2 | 1196.4 | 1098.9 | 1052.8 |
| 2795.3 | 12.5° | 2780.4 | 2701.8 | 2409.1 | 1985.0 | 1555.5 | 1214.0 | 979.6  | 892.9  | 865.8  | 856.3  |
| 2841.4 | 15°   | 2823.7 | 2705.9 | 2276.3 | 1716.7 | 1210.0 | 917.3  | 831.9  | 830.6  | 836.0  | 833.3  |
| 2911.8 | 17.5° | 2883.4 | 2709.9 | 2125.9 | 1432.2 | 933.6  | 808.9  | 804.8  | 817.0  | 825.2  | 821.1  |
| 2999.9 | 20°   | 2960.6 | 2726.2 | 1966.0 | 1150.4 | 802.1  | 781.8  | 791.3  | 802.1  | 808.9  | 802.1  |
| 3117.8 | 22.5° | 3069.0 | 2754.6 | 1791.3 | 924.1  | 760.1  | 765.6  | 773.7  | 785.9  | 792.7  | 783.2  |
| 3268.2 | 25°   | 3201.8 | 2799.3 | 1619.2 | 803.5  | 739.8  | 746.6  | 758.8  | 772.3  | 780.5  | 771.0  |
| 3457.9 | 27.5° | 3373.9 | 2871.2 | 1460.6 | 776.4  | 719.5  | 723.5  | 741.2  | 761.5  | 772.3  | 760.1  |
| 3727.5 | 30°   | 3623.2 | 2989.0 | 1323.8 | 788.6  | 707.3  | 697.8  | 722.2  | 750.6  | 762.8  | 752.0  |
| 4094.7 | 32.5° | 3953.8 | 3155.7 | 1239.8 | 807.6  | 701.9  | 668.0  | 691.0  | 727.6  | 747.9  | 741.2  |
| 4574.3 | 35°   | 4387.4 | 3409.1 | 1207.3 | 829.2  | 697.8  | 636.8  | 653.1  | 692.4  | 727.6  | 734.4  |
| 5178.7 | 37.5° | 4913.1 | 3761.4 | 1216.8 | 838.7  | 685.6  | 611.1  | 619.2  | 653.1  | 699.2  | 720.8  |
| 5858.8 | 40°   | 5510.6 | 4171.9 | 1271.0 | 829.2  | 672.1  | 589.4  | 590.8  | 616.5  | 657.2  | 689.7  |
| 6590.5 | 42.5° | 6127.1 | 4651.6 | 1371.2 | 794.0  | 659.9  | 570.4  | 566.4  | 584.0  | 611.1  | 634.1  |
| 7320.8 | 45°   | 6713.8 | 5144.8 | 1470.1 | 745.2  | 645.0  | 551.5  | 542.0  | 548.8  | 554.2  | 563.7  |
| 8032.2 | 47.5° | 7226.0 | 5491.7 | 1441.7 | 700.5  | 624.6  | 529.8  | 513.5  | 510.8  | 494.6  | 493.2  |
| 8667.7 | 50°   | 7579.6 | 5567.5 | 1280.4 | 655.8  | 594.8  | 505.4  | 479.7  | 463.4  | 434.9  | 421.4  |
| 9143.3 | 52.5° | 7692.1 | 5268.1 | 1046.0 | 611.1  | 546.0  | 472.9  | 436.3  | 410.6  | 375.3  | 363.1  |
| 9417.0 | 55°   | 7543.1 | 4681.4 | 836.0  | 556.9  | 478.3  | 429.5  | 388.9  | 355.0  | 326.5  | 311.6  |
| 9446.8 | 57.5° | 7178.6 | 3934.8 | 661.2  | 493.2  | 406.5  | 380.7  | 340.1  | 306.2  | 281.8  | 266.9  |
| 9116.2 | 60°   | 6574.3 | 3124.5 | 523.0  | 417.3  | 346.9  | 327.9  | 285.9  | 264.2  | 242.5  | 224.9  |
| 8262.5 | 62.5° | 5657.0 | 2230.3 | 410.6  | 330.6  | 290.0  | 268.3  | 243.9  | 227.6  | 201.9  | 177.5  |
| 6727.4 | 65°   | 4414.5 | 1364.4 | 317.1  | 242.5  | 233.1  | 222.2  | 207.3  | 192.4  | 161.2  | 136.9  |
| 4388.7 | 67.5° | 2784.4 | 646.3  | 226.3  | 182.9  | 184.3  | 178.9  | 172.1  | 159.9  | 136.9  | 115.2  |
| 1966.0 | 70°   | 1226.2 | 313.0  | 149.0  | 139.6  | 136.9  | 136.9  | 142.3  | 138.2  | 116.5  | 96.2   |
| 682.9  | 72.5° | 417.3  | 168.0  | 111.1  | 105.7  | 98.9   | 97.6   | 119.2  | 115.2  | 93.5   | 74.5   |
| 340.1  | 75°   | 218.1  | 112.5  | 81.3   | 75.9   | 59.6   | 71.8   | 94.8   | 89.4   | 66.4   | 48.8   |
| 224.9  | 77.5° | 142.3  | 79.9   | 55.6   | 48.8   | 33.9   | 47.4   | 70.5   | 62.3   | 39.3   | 24.4   |
| 147.7  | 80°   | 89.4   | 52.8   | 32.5   | 23.0   | 16.3   | 25.7   | 37.9   | 27.1   | 14.9   | 5.4    |
| 86.7   | 82.5° | 47.4   | 27.1   | 12.2   | 8.1    | 6.8    | 8.1    | 9.5    | 6.8    | 2.7    | 0.0    |
| 44.7   | 85°   | 19.0   | 9.5    | 4.1    | 2.7    | 1.4    | 0.0    | 2.7    | 1.4    | 0.0    | 0.0    |
| 8.1    | 87.5° | 6.8    | 1.4    | 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°   |
|--------|
| 2680.1 |
| 2504.0 |
| 2096.1 |
| 1562.3 |
| 1054.2 |
| 853.6  |
| 831.9  |
| 819.8  |
| 800.8  |
| 781.8  |
| 769.6  |
| 760.1  |
| 750.6  |
| 741.2  |
| 734.4  |
| 726.3  |
| 700.5  |
| 643.6  |
| 569.1  |
| 491.9  |
| 422.7  |
| 361.8  |
| 311.6  |
| 264.2  |
| 220.9  |
| 173.4  |
| 132.8  |
| 112.5  |
| 92.1   |
| 70.5   |
| 44.7   |
| 21.7   |
| 4.1    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

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