

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: P951066

Luminaire Tested: **GLAN-SB5B-827-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951066  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB5B-827-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24686 lumens  
Efficiency: N/A  
Efficacy: 135.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - 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



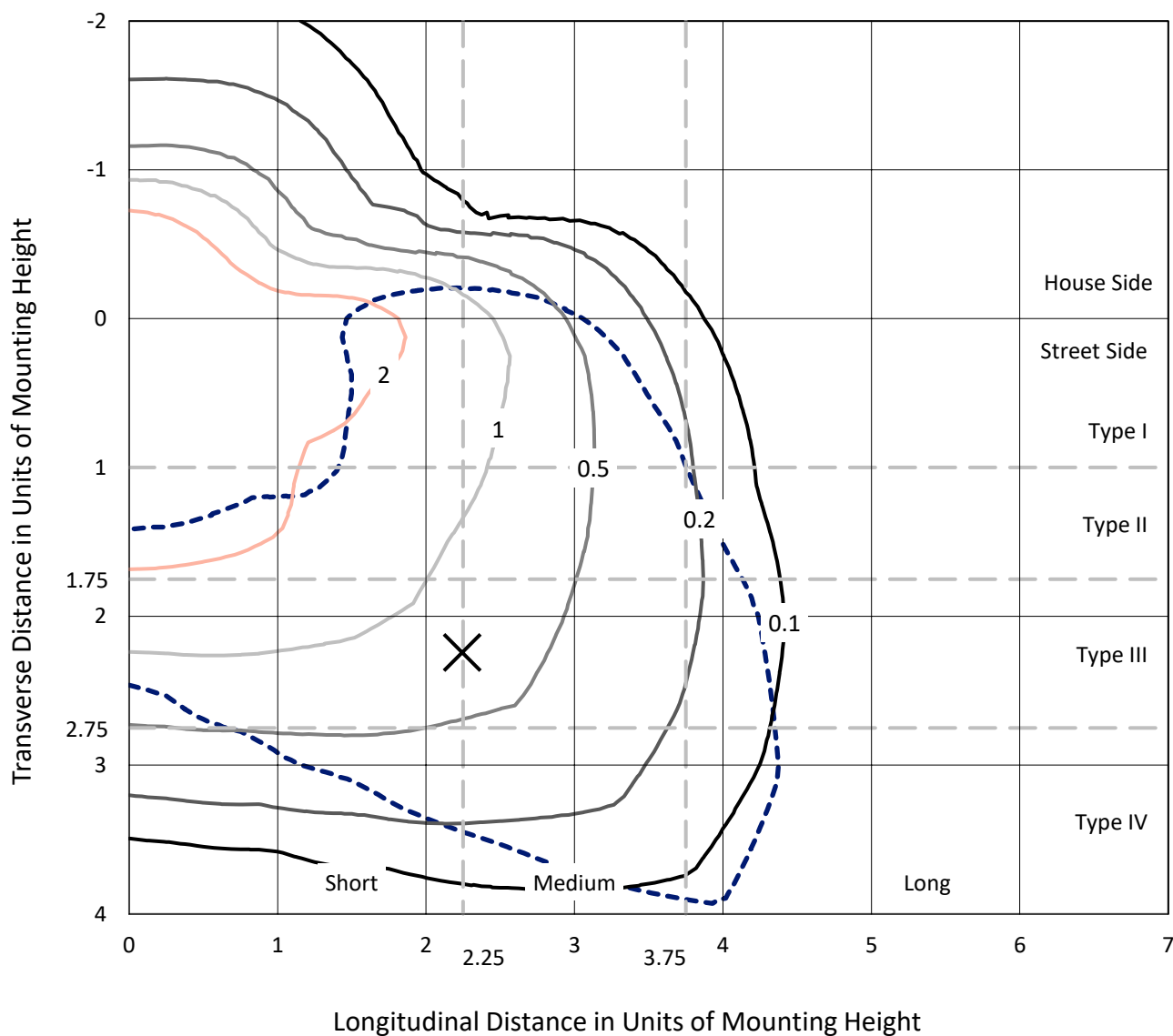
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



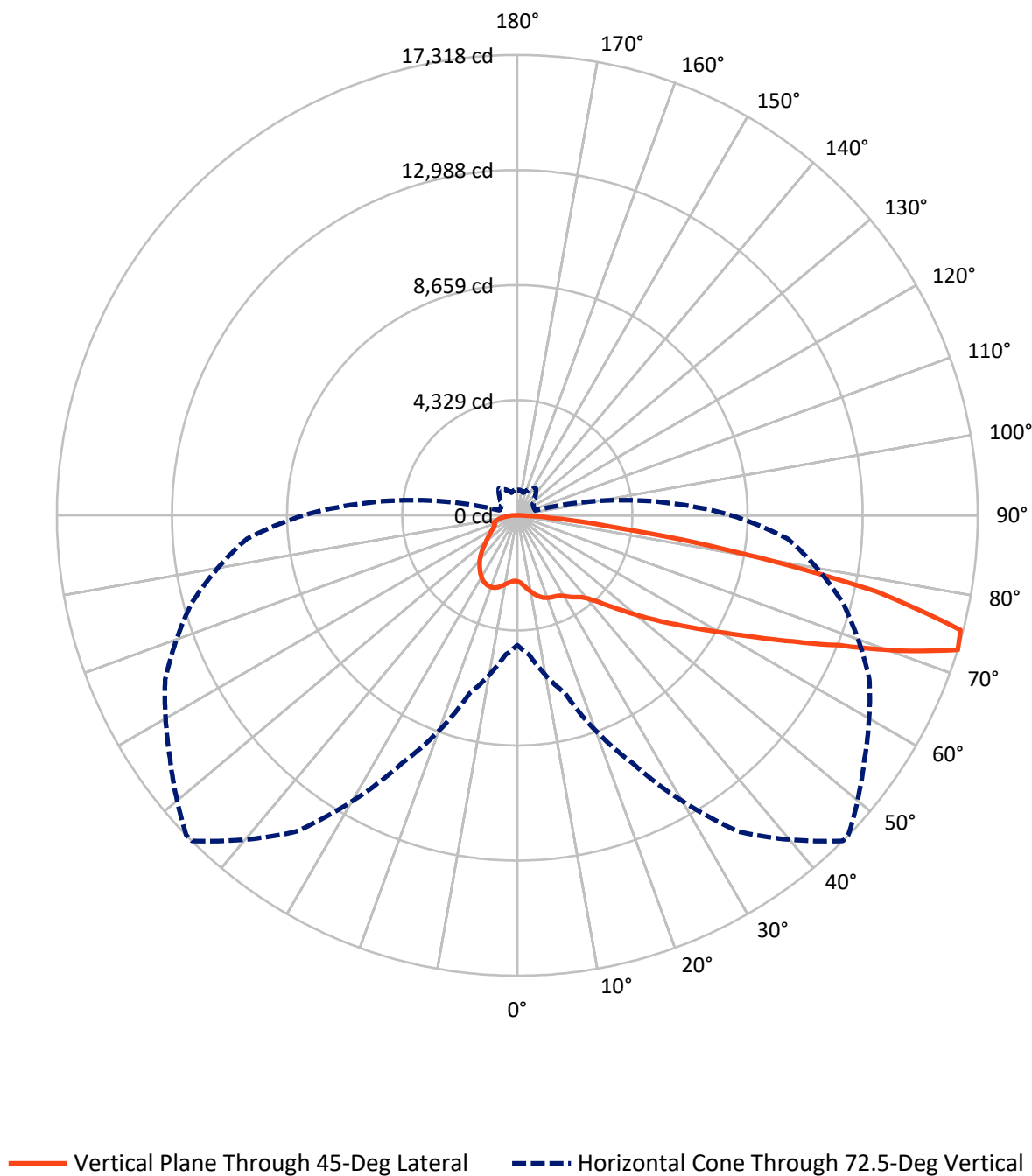
Based on 25 foot mounting height. Maximum calculated value = 4.9 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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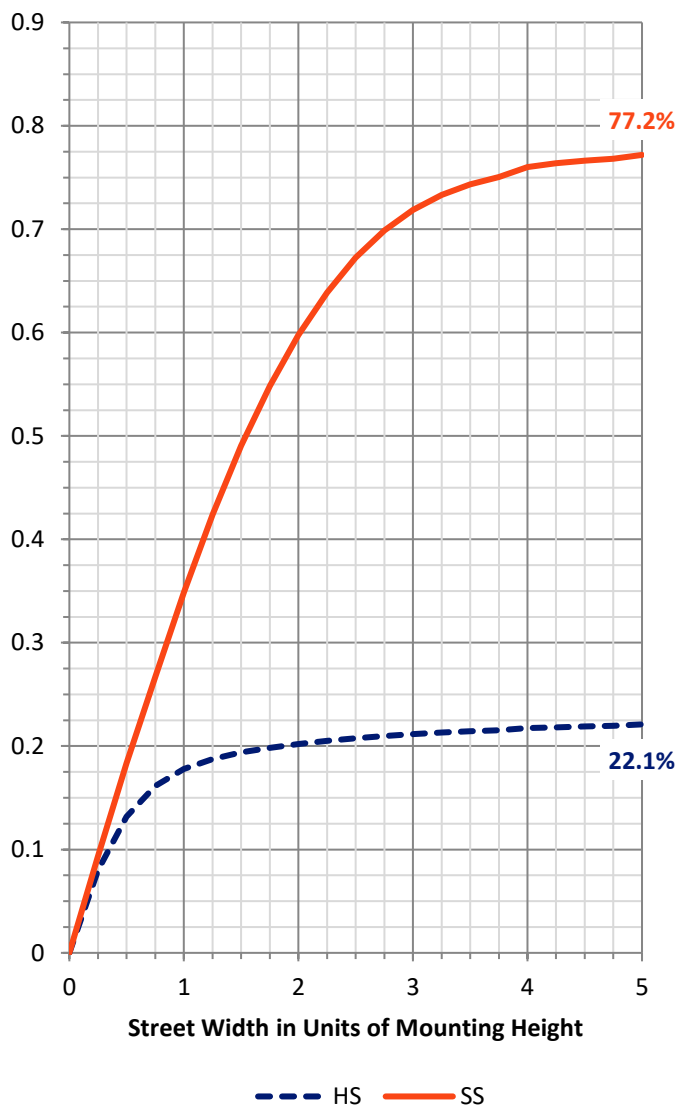
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5580.7   | 0.0    | 5580.7  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 19105.3  | 0.0    | 19105.3 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 24686.0  | 0.0    | 24686.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 253.5   | 1.0       |
| 10°-20°   | 845.1   | 3.4       |
| 20°-30°   | 1470.1  | 6.0       |
| 30°-40°   | 2107.4  | 8.5       |
| 40°-50°   | 2967.4  | 12.0      |
| 50°-60°   | 4545.2  | 18.4      |
| 60°-70°   | 6584.4  | 26.7      |
| 70°-80°   | 5258.0  | 21.3      |
| 80°-90°   | 654.9   | 2.7       |
| 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°    | 24686.0 | 100.0     |
| 0°-180°   | 24686.0 | 100.0     |

**Coefficient of Utilization**



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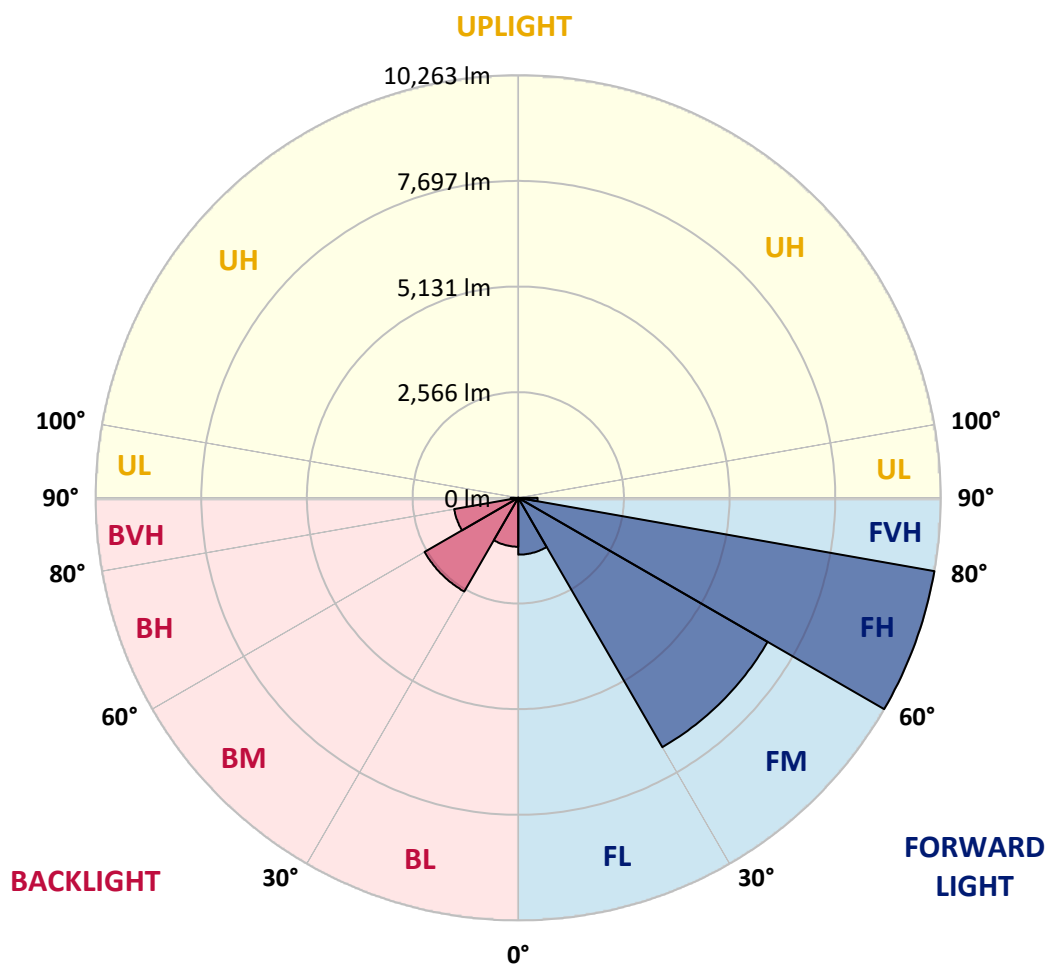
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1380.5  | 5.6       |                         |      |          |
| FM   | (30°-60°)   | 6992.4  | 28.3      |                         |      |          |
| FH   | (60°-80°)   | 10262.7 | 41.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 469.8   | 1.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1188.2  | 4.8       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2627.7  | 10.6      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1579.7  | 6.4       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 185.1   | 0.7       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2490.3 | 2490.3 | 2490.3  | 2490.3  | 2490.3  | 2490.3  | 2490.3  | 2490.3  | 2490.3  | 2490.3  |
| 2.5°  | 2587.9 | 2604.8 | 2589.2  | 2574.9  | 2568.4  | 2551.5  | 2550.2  | 2539.8  | 2533.3  | 2515.0  |
| 5°    | 2768.6 | 2790.7 | 2764.7  | 2736.1  | 2710.1  | 2668.5  | 2663.3  | 2633.4  | 2599.6  | 2560.6  |
| 7.5°  | 2972.8 | 2992.3 | 2962.4  | 2919.5  | 2874.0  | 2805.0  | 2803.7  | 2749.1  | 2695.8  | 2629.5  |
| 10°   | 3151.0 | 3177.0 | 3136.7  | 3078.1  | 3020.9  | 2942.9  | 2933.8  | 2871.4  | 2803.7  | 2717.9  |
| 12.5° | 3308.3 | 3326.5 | 3287.5  | 3216.0  | 3149.7  | 3071.6  | 3059.9  | 2991.0  | 2915.6  | 2818.0  |
| 15°   | 3433.2 | 3456.6 | 3404.5  | 3327.8  | 3257.6  | 3180.9  | 3170.5  | 3108.0  | 3032.6  | 2929.9  |
| 17.5° | 3515.1 | 3534.6 | 3481.3  | 3395.4  | 3327.8  | 3264.1  | 3256.3  | 3204.3  | 3138.0  | 3033.9  |
| 20°   | 3546.3 | 3567.1 | 3511.2  | 3424.1  | 3361.6  | 3312.2  | 3308.3  | 3270.6  | 3225.1  | 3130.2  |
| 22.5° | 3577.5 | 3597.0 | 3524.2  | 3433.2  | 3378.5  | 3347.3  | 3346.0  | 3321.3  | 3303.1  | 3225.1  |
| 25°   | 3703.6 | 3708.8 | 3611.3  | 3480.0  | 3401.9  | 3374.6  | 3373.3  | 3372.0  | 3379.8  | 3318.7  |
| 27.5° | 3812.9 | 3811.6 | 3728.4  | 3604.8  | 3483.9  | 3426.7  | 3425.4  | 3438.4  | 3463.1  | 3412.3  |
| 30°   | 3972.8 | 3958.5 | 3859.7  | 3731.0  | 3620.4  | 3532.0  | 3524.2  | 3512.5  | 3532.0  | 3491.7  |
| 32.5° | 4312.2 | 4266.7 | 4106.8  | 3877.9  | 3733.6  | 3665.9  | 3655.5  | 3582.7  | 3590.5  | 3565.8  |
| 35°   | 4798.6 | 4738.8 | 4525.5  | 4156.2  | 3874.0  | 3777.8  | 3772.6  | 3680.2  | 3664.6  | 3642.5  |
| 37.5° | 5377.3 | 5303.2 | 5054.8  | 4559.3  | 4115.9  | 3907.8  | 3900.0  | 3816.8  | 3753.1  | 3729.7  |
| 40°   | 5958.6 | 5865.0 | 5659.5  | 5050.9  | 4472.2  | 4125.0  | 4100.3  | 3974.1  | 3901.3  | 3862.3  |
| 42.5° | 6523.0 | 6445.0 | 6269.4  | 5602.3  | 4911.8  | 4442.3  | 4387.7  | 4171.8  | 4117.2  | 4080.8  |
| 45°   | 7022.4 | 6952.1 | 6823.4  | 6191.4  | 5426.7  | 4874.0  | 4820.7  | 4468.3  | 4451.4  | 4451.4  |
| 47.5° | 7428.1 | 7412.5 | 7275.9  | 6792.2  | 6034.0  | 5365.6  | 5273.3  | 4880.5  | 4926.1  | 4996.3  |
| 50°   | 7878.0 | 7835.1 | 7689.5  | 7383.9  | 6748.0  | 5928.7  | 5853.3  | 5386.4  | 5556.8  | 5749.2  |
| 52.5° | 8291.6 | 8315.0 | 8152.4  | 8000.3  | 7554.2  | 6556.8  | 6424.2  | 5983.3  | 6351.3  | 6669.9  |
| 55°   | 8716.8 | 8718.1 | 8672.6  | 8651.8  | 8399.5  | 7251.2  | 7105.6  | 6701.2  | 7286.3  | 7681.7  |
| 57.5° | 9116.1 | 9118.7 | 9186.3  | 9369.6  | 9380.1  | 8052.3  | 7887.2  | 7582.8  | 8325.4  | 8728.5  |
| 60°   | 9472.4 | 9490.6 | 9675.3  | 10104.4 | 10242.2 | 8970.4  | 8814.4  | 8624.5  | 9399.6  | 9805.3  |
| 62.5° | 9592.0 | 9658.3 | 10069.3 | 10679.2 | 11094.0 | 10096.6 | 9943.1  | 9830.0  | 10528.3 | 10905.5 |
| 65°   | 9389.2 | 9541.3 | 10335.9 | 11153.8 | 11970.5 | 11434.7 | 11282.6 | 11159.1 | 11701.3 | 12056.4 |
| 67.5° | 8891.1 | 9087.5 | 10320.3 | 11651.9 | 13034.3 | 13044.7 | 12902.9 | 12612.9 | 12958.9 | 13095.4 |
| 70°   | 7578.9 | 7872.8 | 9411.3  | 11837.9 | 14255.4 | 15246.3 | 15109.8 | 14363.3 | 14213.8 | 13553.2 |
| 72.5° | 4883.1 | 5278.5 | 6930.0  | 10307.3 | 14527.2 | 17317.9 | 17310.1 | 15943.4 | 14610.4 | 12663.7 |
| 75°   | 1781.6 | 2023.5 | 3219.9  | 6469.7  | 12194.2 | 17212.6 | 17263.3 | 15672.9 | 13337.3 | 9781.9  |
| 77.5° | 648.9  | 710.0  | 1050.8  | 2486.4  | 7499.6  | 13810.6 | 13916.0 | 12529.7 | 9493.2  | 4909.1  |
| 80°   | 340.7  | 374.5  | 538.4   | 964.9   | 3213.4  | 8201.9  | 8367.0  | 7446.3  | 4461.8  | 1478.6  |
| 82.5° | 188.6  | 204.2  | 301.7   | 524.1   | 1447.4  | 3507.3  | 3606.1  | 2941.6  | 1569.6  | 626.8   |
| 85°   | 101.4  | 107.9  | 141.7   | 286.1   | 707.4   | 1215.9  | 1243.2  | 879.1   | 625.5   | 368.0   |
| 87.5° | 29.9   | 36.4   | 46.8    | 91.0    | 277.0   | 273.1   | 279.6   | 174.3   | 247.1   | 186.0   |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2490.3  | 0°    | 2490.3  | 2490.3 | 2490.3 | 2490.3 | 2490.3 | 2490.3 | 2490.3 | 2490.3 | 2490.3 | 2490.3 |
| 2509.8  | 2.5°  | 2502.0  | 2498.1 | 2483.8 | 2477.3 | 2469.5 | 2468.2 | 2474.7 | 2476.0 | 2477.3 | 2478.6 |
| 2538.5  | 5°    | 2525.4  | 2512.4 | 2499.4 | 2491.6 | 2494.2 | 2495.5 | 2508.5 | 2517.6 | 2524.1 | 2529.4 |
| 2591.8  | 7.5°  | 2571.0  | 2560.6 | 2538.5 | 2537.2 | 2541.1 | 2552.8 | 2569.7 | 2590.5 | 2602.2 | 2611.3 |
| 2660.7  | 10°   | 2638.6  | 2619.1 | 2593.1 | 2597.0 | 2604.8 | 2621.7 | 2656.8 | 2673.7 | 2693.2 | 2710.1 |
| 2745.2  | 12.5° | 2707.5  | 2690.6 | 2660.7 | 2663.3 | 2676.3 | 2706.2 | 2740.0 | 2760.8 | 2773.8 | 2786.8 |
| 2836.3  | 15°   | 2797.2  | 2767.3 | 2734.8 | 2734.8 | 2758.2 | 2790.7 | 2806.3 | 2823.2 | 2831.1 | 2845.4 |
| 2933.8  | 17.5° | 2889.6  | 2850.6 | 2807.6 | 2805.0 | 2833.7 | 2849.3 | 2858.4 | 2861.0 | 2863.6 | 2879.2 |
| 3028.7  | 20°   | 2981.9  | 2939.0 | 2877.9 | 2872.7 | 2879.2 | 2876.6 | 2875.3 | 2872.7 | 2876.6 | 2896.1 |
| 3126.3  | 22.5° | 3072.9  | 3023.5 | 2939.0 | 2915.6 | 2897.4 | 2872.7 | 2871.4 | 2870.1 | 2872.7 | 2892.2 |
| 3231.6  | 25°   | 3179.6  | 3119.7 | 3006.6 | 2936.4 | 2875.3 | 2841.5 | 2845.4 | 2846.7 | 2849.3 | 2864.9 |
| 3340.8  | 27.5° | 3295.3  | 3229.0 | 3069.0 | 2929.9 | 2819.3 | 2795.9 | 2789.4 | 2793.3 | 2802.4 | 2827.2 |
| 3450.1  | 30°   | 3411.0  | 3333.0 | 3126.3 | 2903.9 | 2749.1 | 2716.6 | 2695.8 | 2704.9 | 2733.5 | 2758.2 |
| 3545.0  | 32.5° | 3516.4  | 3438.4 | 3171.8 | 2846.7 | 2659.4 | 2608.7 | 2581.4 | 2593.1 | 2621.7 | 2630.8 |
| 3650.3  | 35°   | 3639.9  | 3551.5 | 3191.3 | 2755.6 | 2561.9 | 2483.8 | 2447.4 | 2430.5 | 2444.8 | 2435.7 |
| 3773.9  | 37.5° | 3777.8  | 3685.4 | 3188.7 | 2636.0 | 2447.4 | 2357.7 | 2307.0 | 2243.3 | 2213.3 | 2182.1 |
| 3955.9  | 40°   | 3981.9  | 3849.3 | 3157.5 | 2491.6 | 2305.7 | 2223.7 | 2132.7 | 2024.8 | 1957.2 | 1896.0 |
| 4249.8  | 42.5° | 4260.2  | 4076.9 | 3100.2 | 2333.0 | 2145.7 | 2069.0 | 1945.5 | 1819.3 | 1712.7 | 1611.2 |
| 4695.9  | 45°   | 4675.1  | 4374.7 | 3028.7 | 2163.9 | 1972.8 | 1897.3 | 1763.4 | 1621.6 | 1500.7 | 1370.7 |
| 5329.2  | 47.5° | 5273.3  | 4775.2 | 2961.1 | 1971.5 | 1790.7 | 1721.8 | 1600.8 | 1469.5 | 1326.4 | 1200.3 |
| 6244.7  | 50°   | 6095.1  | 5350.0 | 2898.7 | 1784.2 | 1611.2 | 1559.2 | 1463.0 | 1329.0 | 1184.7 | 1083.3 |
| 7317.6  | 52.5° | 7140.7  | 6131.6 | 2872.7 | 1603.4 | 1443.5 | 1424.0 | 1347.3 | 1222.4 | 1085.9 | 1000.0 |
| 8568.6  | 55°   | 8341.0  | 7066.6 | 2872.7 | 1430.5 | 1296.5 | 1303.0 | 1249.7 | 1134.0 | 1015.6 | 938.9  |
| 9858.6  | 57.5° | 9566.0  | 8013.3 | 2820.6 | 1270.5 | 1171.7 | 1199.0 | 1165.2 | 1063.8 | 957.1  | 877.8  |
| 11215.0 | 60°   | 10694.8 | 8806.6 | 2610.0 | 1124.9 | 1061.2 | 1104.1 | 1082.0 | 994.8  | 864.8  | 798.5  |
| 12349.0 | 62.5° | 11562.2 | 9253.9 | 2204.2 | 1009.1 | 970.1  | 1019.5 | 1007.8 | 903.8  | 847.9  | 820.6  |
| 13280.1 | 65°   | 11996.5 | 9181.1 | 1685.4 | 906.4  | 893.4  | 970.1  | 945.4  | 941.5  | 897.3  | 866.1  |
| 13583.1 | 67.5° | 11729.9 | 8554.3 | 1222.4 | 831.0  | 849.2  | 924.6  | 1019.5 | 1035.1 | 953.2  | 892.1  |
| 12730.0 | 70°   | 10560.8 | 7420.3 | 910.3  | 759.5  | 793.3  | 925.9  | 1162.6 | 1083.3 | 935.0  | 863.5  |
| 10209.7 | 72.5° | 8034.1  | 5533.4 | 706.1  | 684.0  | 720.4  | 932.4  | 1226.3 | 1061.2 | 883.0  | 954.5  |
| 6360.4  | 75°   | 4594.4  | 3037.8 | 567.0  | 591.7  | 629.4  | 871.3  | 1193.8 | 1003.9 | 842.7  | 876.5  |
| 2520.2  | 77.5° | 1751.7  | 1167.8 | 468.2  | 500.7  | 505.9  | 760.8  | 1141.8 | 1000.0 | 802.4  | 782.9  |
| 755.6   | 80°   | 607.3   | 456.5  | 387.5  | 397.9  | 391.4  | 676.2  | 1095.0 | 870.0  | 656.7  | 587.8  |
| 312.1   | 82.5° | 248.4   | 227.6  | 306.9  | 293.9  | 278.3  | 525.4  | 884.3  | 711.3  | 537.1  | 474.7  |
| 150.9   | 85°   | 107.9   | 144.3  | 202.9  | 178.2  | 161.3  | 364.1  | 708.7  | 602.1  | 453.9  | 391.4  |
| 49.4    | 87.5° | 22.1    | 54.6   | 85.8   | 80.6   | 83.2   | 243.2  | 503.3  | 427.8  | 321.2  | 240.6  |
| 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°   |
|--------|
| 2490.3 |
| 2483.8 |
| 2532.0 |
| 2613.9 |
| 2706.2 |
| 2792.0 |
| 2850.6 |
| 2884.4 |
| 2903.9 |
| 2905.2 |
| 2885.7 |
| 2851.9 |
| 2785.5 |
| 2663.3 |
| 2464.3 |
| 2201.6 |
| 1899.9 |
| 1602.1 |
| 1355.1 |
| 1186.0 |
| 1076.8 |
| 993.5  |
| 931.1  |
| 864.8  |
| 788.1  |
| 811.5  |
| 855.7  |
| 881.7  |
| 851.8  |
| 946.7  |
| 876.5  |
| 713.9  |
| 568.3  |
| 469.5  |
| 390.1  |
| 188.6  |
| 0.0    |