

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: P941032

Luminaire Tested: **GLAN-SB4B-850-U-SL4**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P941032  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB4B-850-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 21398 lumens  
Efficiency: N/A  
Efficacy: 145.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

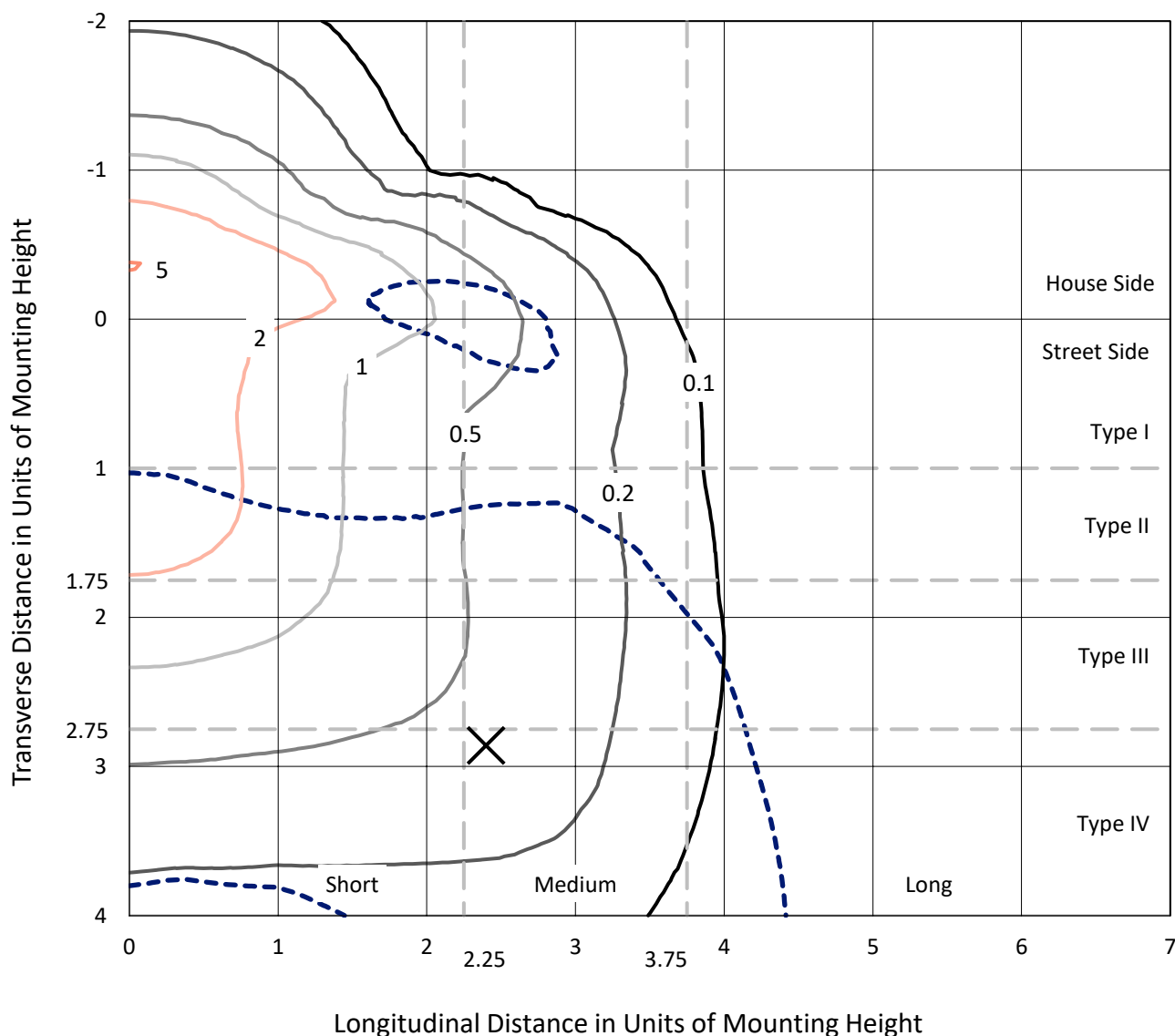
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

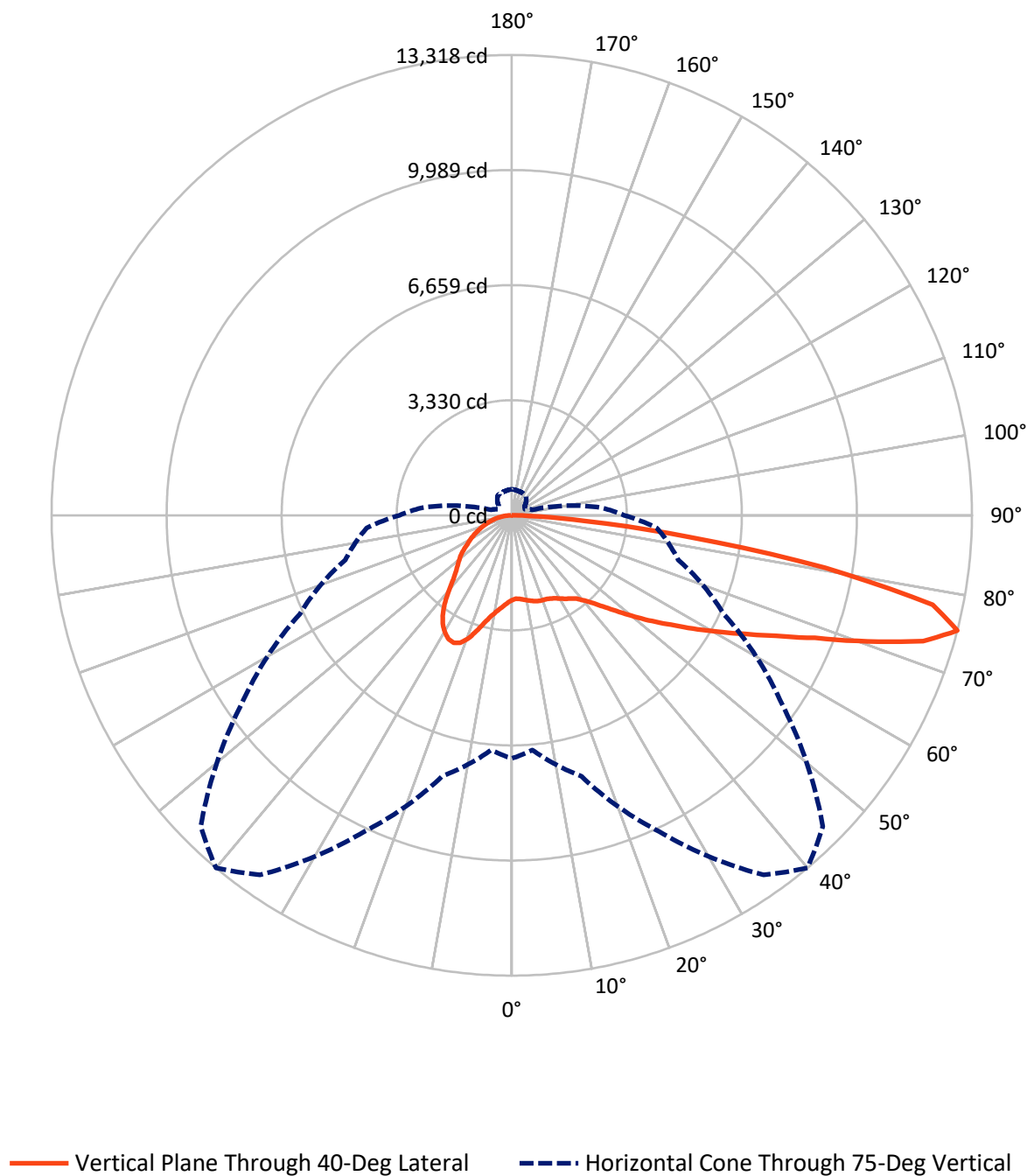
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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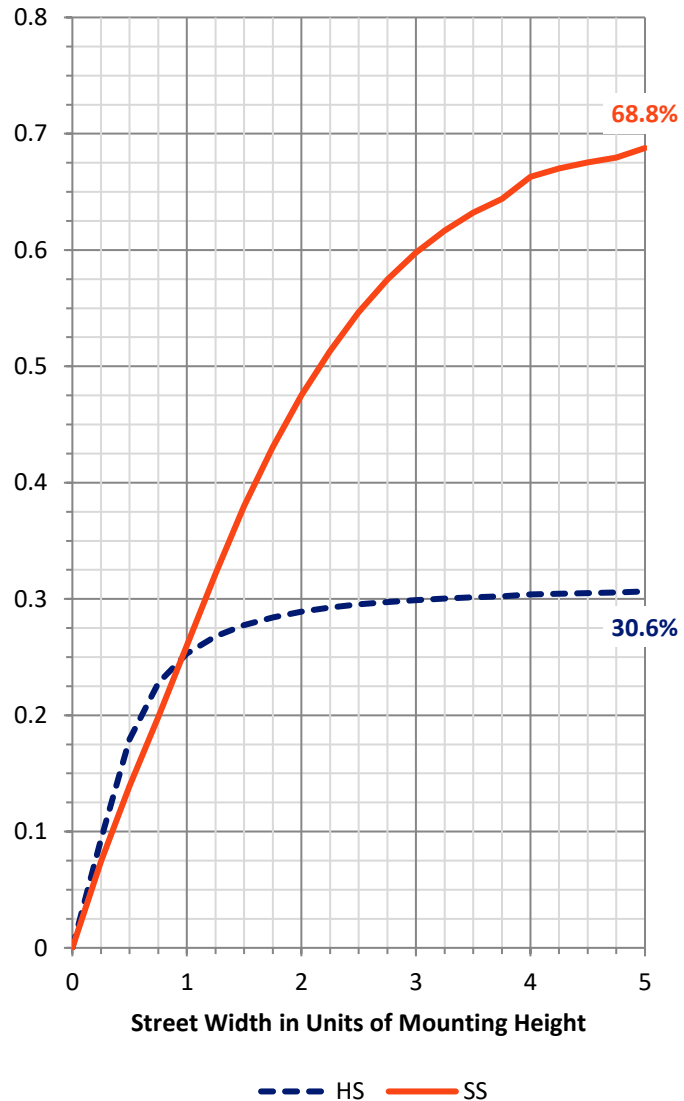
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6629.8   | 0.0    | 6629.8  |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 14768.2  | 0.0    | 14768.2 |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 21398.0  | 0.0    | 21398.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 244.2   | 1.1       |
| 10°-20°   | 820.0   | 3.8       |
| 20°-30°   | 1497.3  | 7.0       |
| 30°-40°   | 2123.6  | 9.9       |
| 40°-50°   | 2867.6  | 13.4      |
| 50°-60°   | 3857.6  | 18.0      |
| 60°-70°   | 4896.2  | 22.9      |
| 70°-80°   | 4443.6  | 20.8      |
| 80°-90°   | 647.7   | 3.0       |
| 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°    | 21398.0 | 100.0     |
| 0°-180°   | 21398.0 | 100.0     |

**Coefficient of Utilization**



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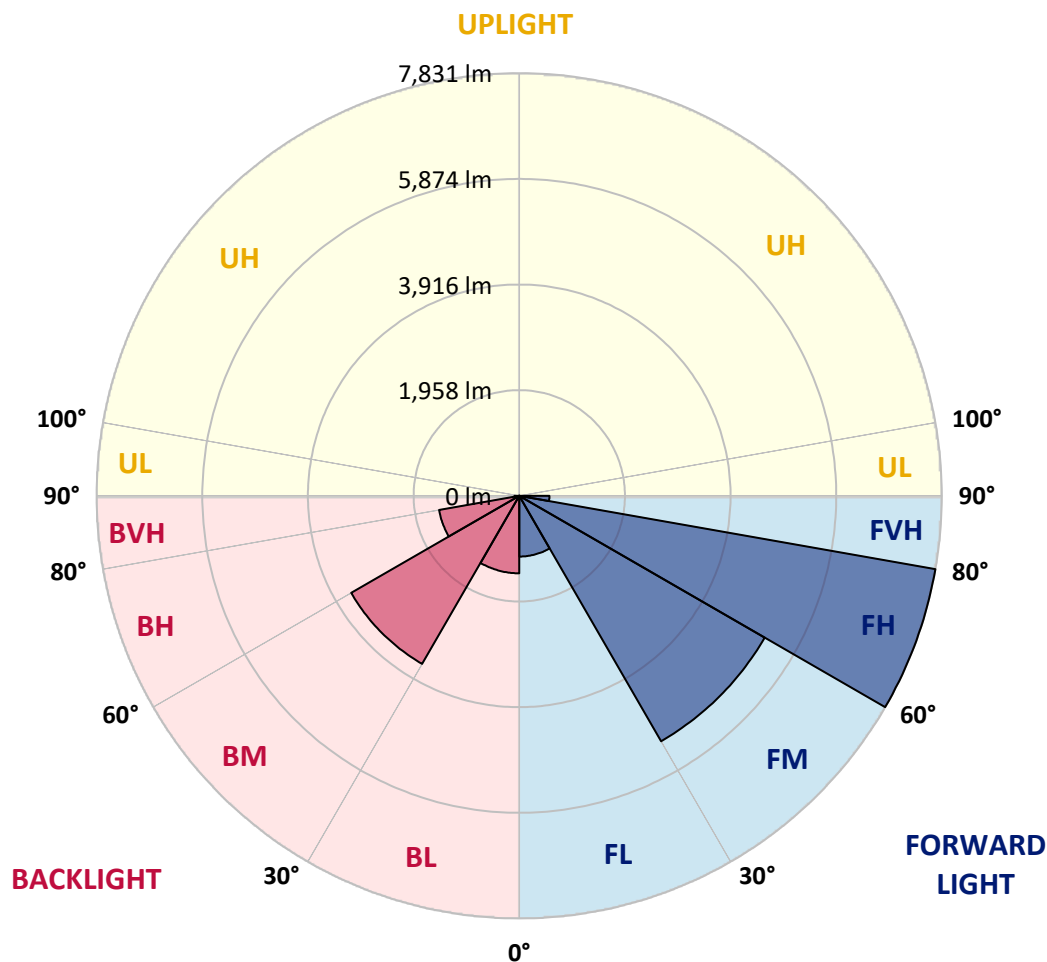
CATALOG NUMBER: GLAN-SB4B-850-U-SL4

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1125.6 | 5.3       |                         |      |          |
| FM   | (30°-60°)   | 5252.7 | 24.5      |                         |      |          |
| FH   | (60°-80°)   | 7831.3 | 36.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 558.6  | 2.6       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1436.1 | 6.7       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3596.1 | 16.8      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1508.5 | 7.0       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 89.2   | 0.4       |                         |      | G1/100   |
| 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 40°     | 45°     | 55°    | 65°    | 75°    |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 2446.9  | 2446.9  | 2446.9  | 2446.9  | 2446.9  | 2446.9  | 2446.9  | 2446.9 | 2446.9 | 2446.9 |
| 2.5°  | 2409.4  | 2423.1  | 2419.7  | 2415.1  | 2415.1  | 2416.2  | 2415.1  | 2423.1 | 2431.0 | 2438.9 |
| 5°    | 2434.4  | 2448.0  | 2441.2  | 2435.5  | 2431.0  | 2429.9  | 2426.5  | 2425.3 | 2429.9 | 2440.1 |
| 7.5°  | 2483.2  | 2496.8  | 2486.6  | 2476.4  | 2467.3  | 2462.8  | 2458.2  | 2451.4 | 2448.0 | 2453.7 |
| 10°   | 2537.7  | 2551.3  | 2538.8  | 2520.7  | 2505.9  | 2500.2  | 2495.7  | 2488.9 | 2484.3 | 2487.7 |
| 12.5° | 2592.2  | 2605.8  | 2588.8  | 2563.8  | 2544.5  | 2541.1  | 2535.4  | 2533.1 | 2532.0 | 2530.9 |
| 15°   | 2643.2  | 2654.6  | 2633.0  | 2603.5  | 2583.1  | 2577.4  | 2571.7  | 2575.1 | 2580.8 | 2587.6 |
| 17.5° | 2683.0  | 2694.3  | 2662.5  | 2623.9  | 2604.6  | 2602.4  | 2599.0  | 2610.3 | 2626.2 | 2643.2 |
| 20°   | 2719.3  | 2730.6  | 2689.8  | 2637.6  | 2614.9  | 2614.9  | 2616.0  | 2639.8 | 2662.5 | 2687.5 |
| 22.5° | 2770.3  | 2779.4  | 2729.5  | 2658.0  | 2625.1  | 2627.3  | 2636.4  | 2660.3 | 2688.6 | 2722.7 |
| 25°   | 2846.4  | 2853.2  | 2791.9  | 2696.6  | 2659.1  | 2665.9  | 2673.9  | 2685.2 | 2712.5 | 2752.2 |
| 27.5° | 2969.0  | 2974.6  | 2894.0  | 2764.7  | 2707.9  | 2719.3  | 2730.6  | 2722.7 | 2735.2 | 2769.2 |
| 30°   | 3141.5  | 3144.9  | 3042.7  | 2871.4  | 2790.8  | 2796.4  | 2798.7  | 2765.8 | 2742.0 | 2769.2 |
| 32.5° | 3345.7  | 3344.6  | 3223.2  | 3000.7  | 2885.0  | 2879.3  | 2860.0  | 2795.3 | 2739.7 | 2763.5 |
| 35°   | 3662.4  | 3649.9  | 3493.3  | 3182.3  | 2991.7  | 2956.5  | 2911.1  | 2828.2 | 2751.0 | 2757.9 |
| 37.5° | 4186.7  | 4148.1  | 3931.4  | 3479.7  | 3150.5  | 3060.9  | 2993.9  | 2881.6 | 2776.0 | 2755.6 |
| 40°   | 4778.0  | 4729.2  | 4490.9  | 3887.1  | 3388.9  | 3244.7  | 3136.9  | 2957.6 | 2816.9 | 2765.8 |
| 42.5° | 5479.4  | 5410.2  | 5153.7  | 4367.2  | 3690.8  | 3481.9  | 3319.6  | 3054.1 | 2877.0 | 2798.7 |
| 45°   | 6340.8  | 6248.9  | 5885.7  | 4908.5  | 4071.0  | 3792.9  | 3576.1  | 3200.5 | 2969.0 | 2862.3 |
| 47.5° | 7211.3  | 7234.0  | 6717.6  | 5528.2  | 4527.2  | 4176.5  | 3897.3  | 3420.7 | 3102.9 | 2964.4 |
| 50°   | 8136.2  | 8152.1  | 7545.0  | 6214.8  | 5044.7  | 4610.0  | 4258.2  | 3666.9 | 3289.0 | 3109.7 |
| 52.5° | 8858.1  | 8860.3  | 8296.3  | 6933.2  | 5583.8  | 5086.7  | 4647.5  | 3948.4 | 3504.6 | 3302.6 |
| 55°   | 9309.8  | 9304.1  | 8822.9  | 7613.1  | 6203.5  | 5587.2  | 5078.8  | 4268.4 | 3767.9 | 3529.6 |
| 57.5° | 9637.7  | 9620.7  | 9186.1  | 8197.5  | 6864.0  | 6178.5  | 5566.8  | 4631.6 | 4078.9 | 3799.7 |
| 60°   | 9762.6  | 9752.4  | 9432.3  | 8702.6  | 7558.6  | 6832.2  | 6129.7  | 5037.9 | 4431.9 | 4118.6 |
| 62.5° | 9810.3  | 9829.6  | 9674.1  | 9191.7  | 8301.9  | 7556.3  | 6748.2  | 5523.7 | 4829.1 | 4479.5 |
| 65°   | 9978.2  | 10013.4 | 9981.6  | 9831.8  | 9141.8  | 8404.1  | 7568.8  | 6101.3 | 5262.6 | 4866.5 |
| 67.5° | 10310.8 | 10345.9 | 10359.6 | 10597.9 | 10167.8 | 9460.7  | 8592.5  | 6820.9 | 5769.9 | 5268.3 |
| 70°   | 10302.8 | 10292.6 | 10533.2 | 11207.3 | 11452.5 | 10923.6 | 9972.6  | 7706.1 | 6374.9 | 5602.0 |
| 72.5° | 9377.9  | 9296.1  | 9864.7  | 11200.5 | 12521.6 | 12451.2 | 11657.9 | 8847.8 | 6896.9 | 5642.8 |
| 75°   | 7035.4  | 6817.5  | 7821.9  | 10094.0 | 12699.8 | 13318.3 | 12729.3 | 9556.0 | 6773.2 | 4985.7 |
| 77.5° | 3008.7  | 2789.6  | 3973.4  | 7472.3  | 11366.2 | 12450.1 | 11746.4 | 8337.1 | 5406.8 | 3296.9 |
| 80°   | 787.6   | 786.5   | 1200.7  | 3387.7  | 7729.9  | 9194.0  | 8065.9  | 5384.1 | 3089.3 | 1178.0 |
| 82.5° | 325.7   | 317.8   | 441.5   | 1317.6  | 3777.0  | 5159.4  | 4210.6  | 2401.5 | 1115.6 | 318.9  |
| 85°   | 121.4   | 120.3   | 214.5   | 455.1   | 1332.4  | 2128.0  | 1540.1  | 614.0  | 278.1  | 155.5  |
| 87.5° | 34.0    | 32.9    | 46.5    | 157.8   | 324.6   | 492.6   | 263.3   | 101.0  | 78.3   | 61.3   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2446.9 | 0°    | 2446.9 | 2446.9 | 2446.9 | 2446.9 | 2446.9 | 2446.9 | 2446.9 | 2446.9 | 2446.9 | 2446.9 |
| 2451.4 | 2.5°  | 2454.8 | 2460.5 | 2470.7 | 2478.7 | 2488.9 | 2500.2 | 2516.1 | 2526.3 | 2536.5 | 2543.4 |
| 2457.1 | 5°    | 2465.0 | 2477.5 | 2503.6 | 2529.7 | 2560.4 | 2588.8 | 2621.7 | 2645.5 | 2664.8 | 2670.5 |
| 2477.5 | 7.5°  | 2487.7 | 2508.2 | 2552.4 | 2596.7 | 2645.5 | 2692.0 | 2739.7 | 2780.6 | 2813.5 | 2826.0 |
| 2513.9 | 10°   | 2527.5 | 2554.7 | 2617.1 | 2679.5 | 2744.2 | 2815.7 | 2877.0 | 2936.0 | 2982.6 | 3001.9 |
| 2557.0 | 12.5° | 2577.4 | 2611.5 | 2693.2 | 2779.4 | 2869.1 | 2967.8 | 3047.3 | 3119.9 | 3177.8 | 3203.9 |
| 2617.1 | 15°   | 2642.1 | 2686.4 | 2790.8 | 2906.5 | 3038.2 | 3175.5 | 3276.5 | 3357.1 | 3421.8 | 3453.6 |
| 2679.5 | 17.5° | 2712.5 | 2771.5 | 2903.1 | 3077.9 | 3266.3 | 3446.8 | 3564.8 | 3623.8 | 3690.8 | 3721.4 |
| 2737.4 | 20°   | 2780.6 | 2853.2 | 3041.6 | 3295.8 | 3546.6 | 3738.4 | 3833.8 | 3849.7 | 3854.2 | 3857.6 |
| 2791.9 | 22.5° | 2850.9 | 2948.5 | 3215.2 | 3570.5 | 3839.4 | 3972.2 | 3985.8 | 3917.7 | 3822.4 | 3778.2 |
| 2845.2 | 25°   | 2928.1 | 3057.5 | 3442.2 | 3873.5 | 4091.4 | 4107.3 | 4002.9 | 3837.2 | 3656.7 | 3573.9 |
| 2888.4 | 27.5° | 3003.0 | 3183.5 | 3714.6 | 4162.9 | 4273.0 | 4133.4 | 3908.7 | 3673.7 | 3455.8 | 3368.4 |
| 2919.0 | 30°   | 3077.9 | 3327.6 | 4015.4 | 4416.0 | 4355.8 | 4068.7 | 3760.0 | 3497.8 | 3278.8 | 3186.9 |
| 2946.3 | 32.5° | 3153.9 | 3495.6 | 4361.5 | 4598.7 | 4341.1 | 3931.4 | 3575.0 | 3300.4 | 3107.4 | 3010.9 |
| 2970.1 | 35°   | 3240.2 | 3702.1 | 4689.5 | 4698.6 | 4242.3 | 3729.4 | 3331.0 | 3064.3 | 2896.3 | 2819.1 |
| 2998.5 | 37.5° | 3352.6 | 3964.3 | 4978.9 | 4723.5 | 4069.8 | 3433.1 | 3028.0 | 2785.1 | 2646.6 | 2611.5 |
| 3040.5 | 40°   | 3492.2 | 4279.8 | 5200.2 | 4683.8 | 3814.5 | 3073.4 | 2696.6 | 2502.5 | 2424.2 | 2432.1 |
| 3097.2 | 42.5° | 3673.7 | 4632.7 | 5355.7 | 4581.7 | 3459.2 | 2702.2 | 2406.0 | 2319.8 | 2357.2 | 2389.0 |
| 3182.3 | 45°   | 3909.8 | 4999.3 | 5452.2 | 4408.0 | 3057.5 | 2387.9 | 2234.7 | 2255.1 | 2283.5 | 2286.9 |
| 3319.6 | 47.5° | 4211.7 | 5370.4 | 5515.7 | 4145.9 | 2647.8 | 2166.6 | 2125.7 | 2130.2 | 2124.6 | 2100.7 |
| 3525.1 | 50°   | 4588.5 | 5731.4 | 5572.5 | 3798.6 | 2299.4 | 2028.1 | 1973.6 | 1957.7 | 1879.4 | 1802.3 |
| 3798.6 | 52.5° | 5017.5 | 6062.7 | 5596.3 | 3367.3 | 2028.1 | 1912.3 | 1823.8 | 1723.9 | 1577.5 | 1553.7 |
| 4142.5 | 55°   | 5494.2 | 6369.2 | 5535.0 | 2837.3 | 1800.0 | 1763.7 | 1629.7 | 1509.4 | 1493.6 | 1473.1 |
| 4595.3 | 57.5° | 6063.9 | 6699.4 | 5410.2 | 2246.0 | 1566.2 | 1590.0 | 1459.5 | 1473.1 | 1444.8 | 1413.0 |
| 5177.5 | 60°   | 6687.0 | 7041.1 | 5191.1 | 1706.9 | 1324.5 | 1373.3 | 1415.2 | 1414.1 | 1406.2 | 1380.1 |
| 5791.5 | 62.5° | 7247.6 | 7265.8 | 4759.9 | 1307.4 | 1112.2 | 1205.3 | 1319.9 | 1318.8 | 1312.0 | 1297.2 |
| 6432.7 | 65°   | 7581.3 | 7231.7 | 4040.3 | 1029.4 | 937.4  | 1066.8 | 1190.5 | 1199.6 | 1200.7 | 1199.6 |
| 6915.1 | 67.5° | 7522.3 | 6833.4 | 3052.9 | 819.4  | 793.3  | 926.1  | 1062.3 | 1074.8 | 1083.8 | 1086.1 |
| 6976.4 | 70°   | 6854.9 | 5958.3 | 1990.7 | 653.7  | 665.1  | 802.4  | 940.8  | 953.3  | 961.3  | 970.4  |
| 6053.7 | 72.5° | 5343.2 | 4380.8 | 1139.5 | 528.9  | 552.7  | 695.7  | 820.5  | 835.3  | 839.8  | 856.9  |
| 4212.8 | 75°   | 3256.1 | 2576.3 | 615.1  | 416.5  | 454.0  | 594.7  | 701.4  | 718.4  | 726.3  | 746.8  |
| 2069.0 | 77.5° | 1548.0 | 1115.6 | 350.7  | 324.6  | 365.4  | 485.7  | 592.4  | 611.7  | 590.2  | 601.5  |
| 570.9  | 80°   | 523.2  | 414.2  | 221.3  | 247.4  | 279.2  | 379.1  | 474.4  | 493.7  | 448.3  | 446.0  |
| 189.5  | 82.5° | 182.7  | 168.0  | 140.7  | 164.6  | 180.5  | 271.2  | 358.6  | 383.6  | 333.7  | 332.5  |
| 85.1   | 85°   | 71.5   | 68.1   | 78.3   | 89.7   | 107.8  | 166.8  | 236.1  | 248.5  | 205.4  | 165.7  |
| 25.0   | 87.5° | 14.8   | 15.9   | 19.3   | 20.4   | 32.9   | 57.9   | 85.1   | 104.4  | 82.8   | 70.4   |
| 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°   |
|--------|
| 2446.9 |
| 2538.8 |
| 2672.7 |
| 2827.1 |
| 3003.0 |
| 3203.9 |
| 3451.3 |
| 3720.3 |
| 3866.7 |
| 3790.6 |
| 3586.4 |
| 3378.7 |
| 3197.1 |
| 3023.4 |
| 2836.2 |
| 2636.4 |
| 2459.4 |
| 2418.5 |
| 2309.6 |
| 2118.9 |
| 1812.5 |
| 1561.7 |
| 1476.5 |
| 1407.3 |
| 1371.0 |
| 1291.5 |
| 1199.6 |
| 1088.4 |
| 974.9  |
| 863.7  |
| 749.0  |
| 592.4  |
| 441.5  |
| 316.6  |
| 163.4  |
| 64.7   |
| 0.0    |