

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: P849893

Luminaire Tested: **GLAN-SB7A-927-U-SL4**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P849893  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB7A-927-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20364 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

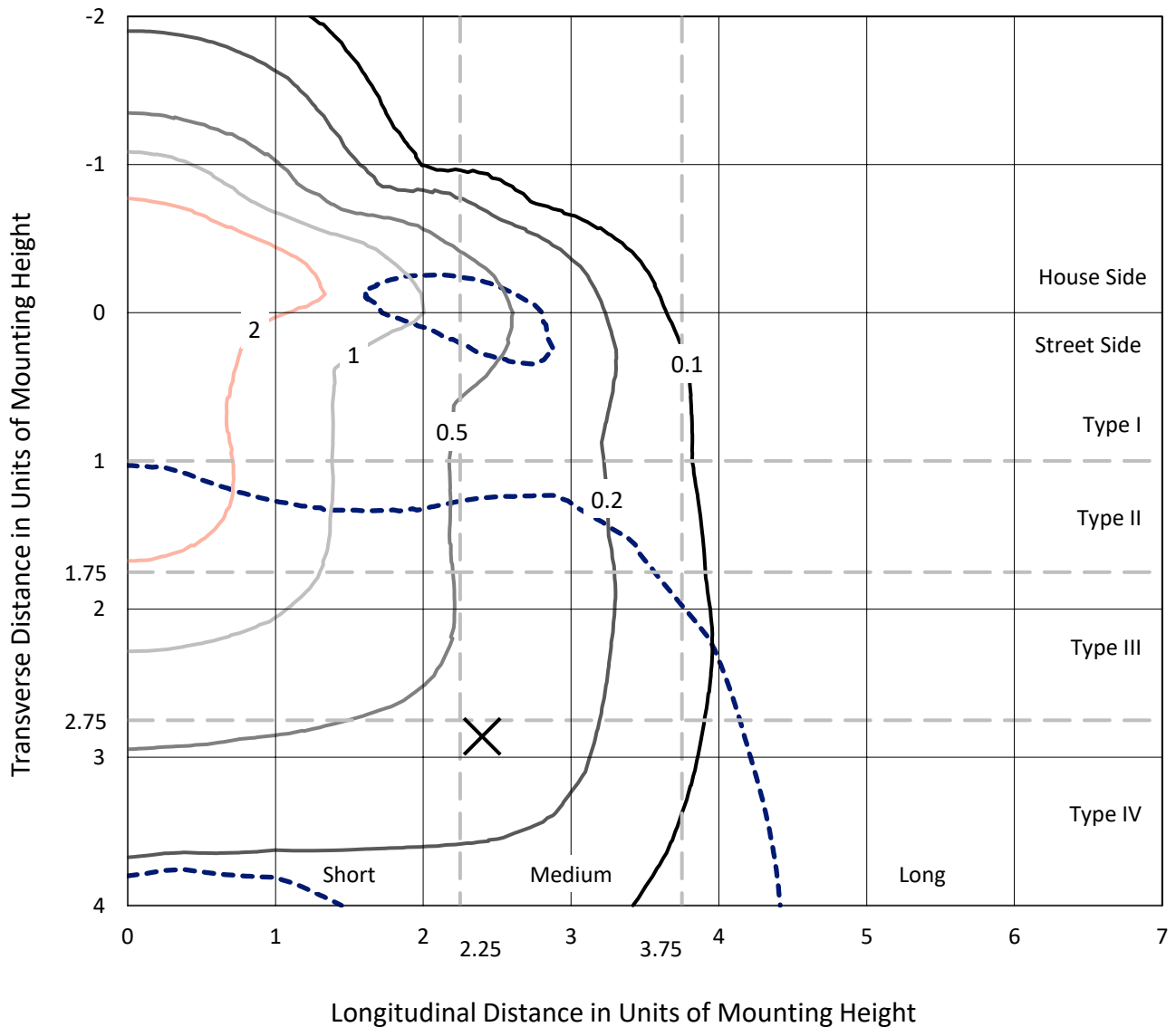
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

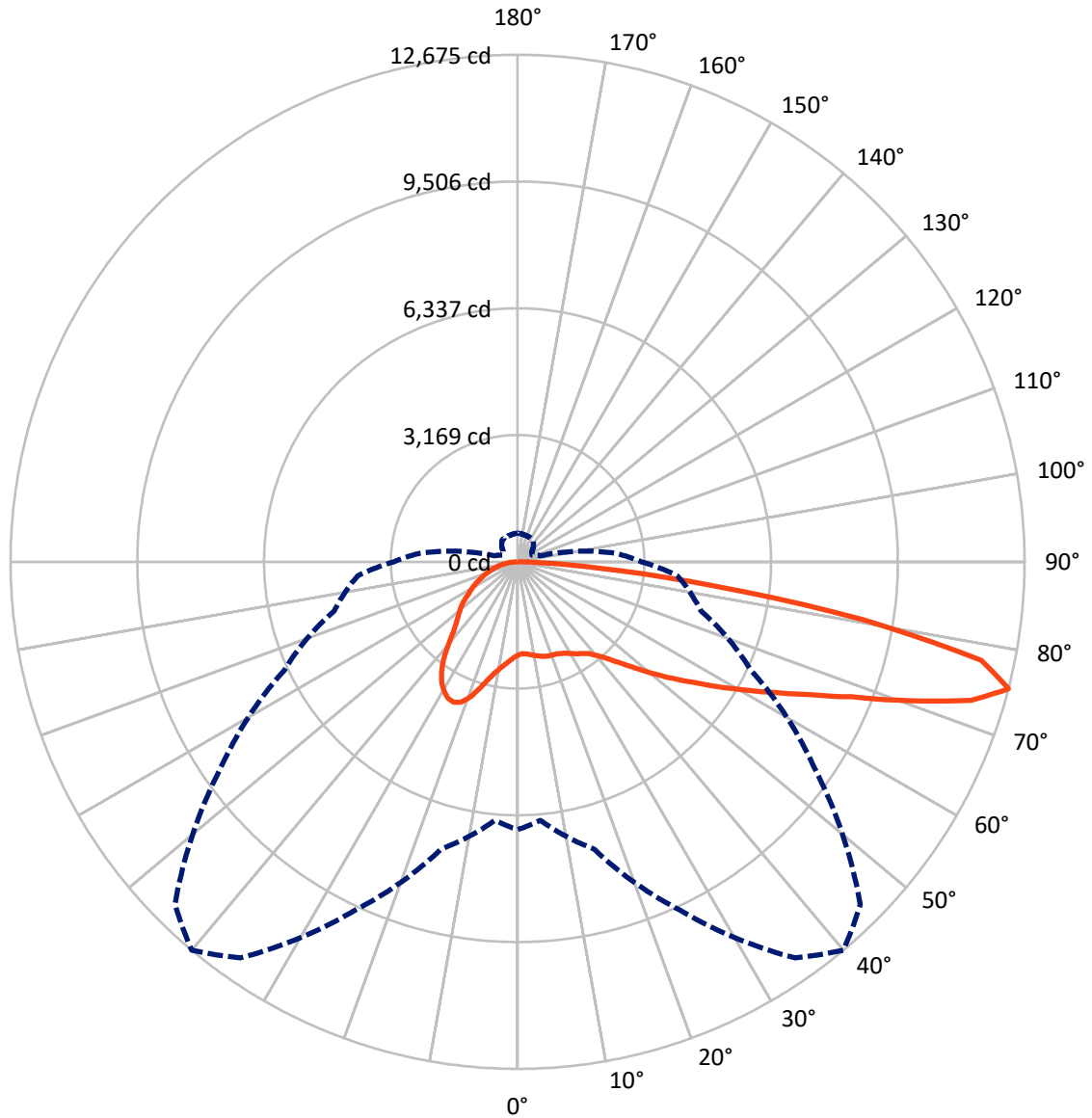
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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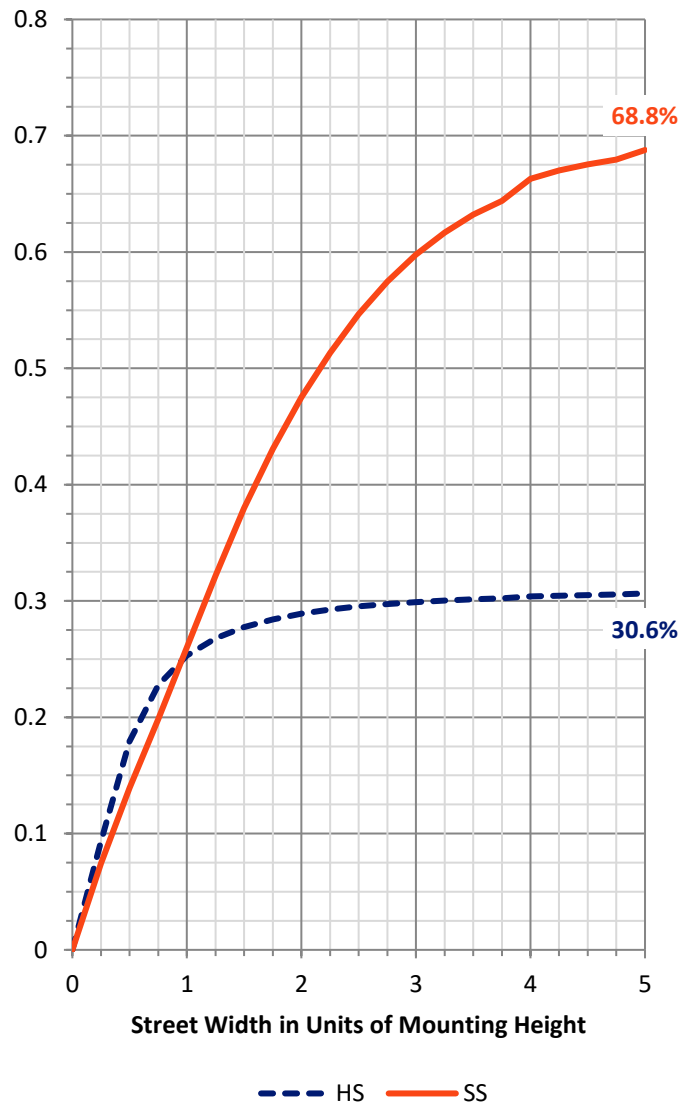
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6309.4   | 0.0    | 6309.4  |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 14054.5  | 0.0    | 14054.5 |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 20364.0  | 0.0    | 20364.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 232.4   | 1.1       |
| 10°-20°   | 780.4   | 3.8       |
| 20°-30°   | 1425.0  | 7.0       |
| 30°-40°   | 2021.0  | 9.9       |
| 40°-50°   | 2729.0  | 13.4      |
| 50°-60°   | 3671.2  | 18.0      |
| 60°-70°   | 4659.6  | 22.9      |
| 70°-80°   | 4228.9  | 20.8      |
| 80°-90°   | 616.4   | 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°    | 20364.0 | 100.0     |
| 0°-180°   | 20364.0 | 100.0     |

**Coefficient of Utilization**

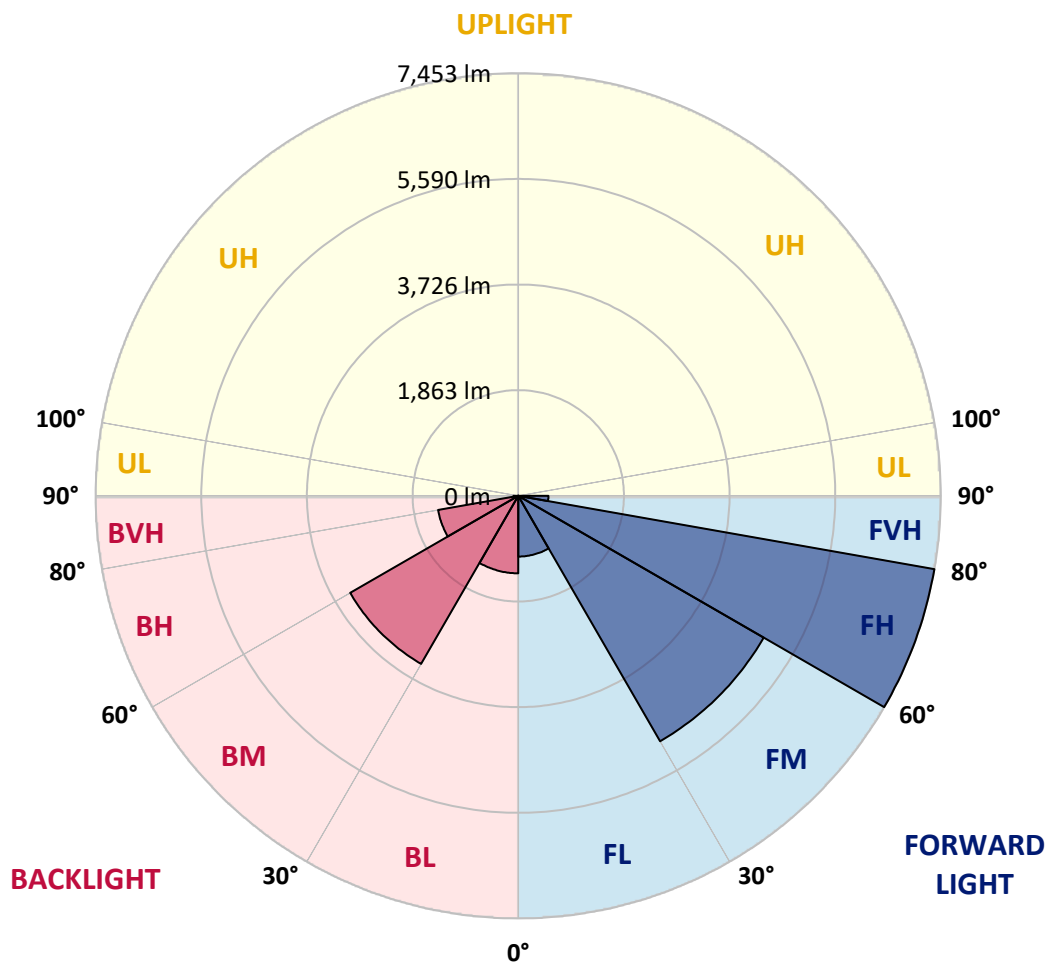


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1071.2 | 5.3       |                         |      |         |
| FM (30°-60°)   | 4998.9 | 24.5      |                         |      |         |
| FH (60°-80°)   | 7452.9 | 36.6      |                         |      | G3/7500 |
| FVH (80°-90°)  | 531.6  | 2.6       |                         |      | G4/750  |
| BL (0°-30°)    | 1366.7 | 6.7       | B3/2500                 |      |         |
| BM (30°-60°)   | 3422.3 | 16.8      | B3/5000                 |      |         |
| BH (60°-80°)   | 1435.6 | 7.0       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 84.9   | 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°    | 2328.7 | 2328.7 | 2328.7  | 2328.7  | 2328.7  | 2328.7  | 2328.7  | 2328.7 | 2328.7 | 2328.7 |
| 2.5°  | 2293.0 | 2306.0 | 2302.7  | 2298.4  | 2298.4  | 2299.5  | 2298.4  | 2306.0 | 2313.5 | 2321.1 |
| 5°    | 2316.8 | 2329.7 | 2323.3  | 2317.8  | 2313.5  | 2312.4  | 2309.2  | 2308.1 | 2312.4 | 2322.2 |
| 7.5°  | 2363.2 | 2376.2 | 2366.5  | 2356.7  | 2348.1  | 2343.8  | 2339.5  | 2333.0 | 2329.7 | 2335.1 |
| 10°   | 2415.1 | 2428.0 | 2416.1  | 2398.9  | 2384.8  | 2379.4  | 2375.1  | 2368.6 | 2364.3 | 2367.5 |
| 12.5° | 2466.9 | 2479.9 | 2463.7  | 2439.9  | 2421.5  | 2418.3  | 2412.9  | 2410.7 | 2409.7 | 2408.6 |
| 15°   | 2515.5 | 2526.3 | 2505.8  | 2477.7  | 2458.3  | 2452.9  | 2447.5  | 2450.7 | 2456.1 | 2462.6 |
| 17.5° | 2553.3 | 2564.1 | 2533.9  | 2497.1  | 2478.8  | 2476.6  | 2473.4  | 2484.2 | 2499.3 | 2515.5 |
| 20°   | 2587.9 | 2598.7 | 2559.8  | 2510.1  | 2488.5  | 2488.5  | 2489.6  | 2512.3 | 2533.9 | 2557.6 |
| 22.5° | 2636.5 | 2645.1 | 2597.6  | 2529.5  | 2498.2  | 2500.4  | 2509.0  | 2531.7 | 2558.7 | 2591.1 |
| 25°   | 2708.8 | 2715.3 | 2657.0  | 2566.3  | 2530.6  | 2537.1  | 2544.7  | 2555.5 | 2581.4 | 2619.2 |
| 27.5° | 2825.5 | 2830.9 | 2754.2  | 2631.1  | 2577.1  | 2587.9  | 2598.7  | 2591.1 | 2603.0 | 2635.4 |
| 30°   | 2989.7 | 2992.9 | 2895.7  | 2732.6  | 2655.9  | 2661.3  | 2663.5  | 2632.2 | 2609.5 | 2635.4 |
| 32.5° | 3184.1 | 3183.0 | 3067.4  | 2855.7  | 2745.6  | 2740.2  | 2721.8  | 2660.2 | 2607.3 | 2630.0 |
| 35°   | 3485.4 | 3473.5 | 3324.5  | 3028.5  | 2847.1  | 2813.6  | 2770.4  | 2691.6 | 2618.1 | 2624.6 |
| 37.5° | 3984.4 | 3947.7 | 3741.4  | 3311.5  | 2998.3  | 2913.0  | 2849.2  | 2742.3 | 2641.9 | 2622.4 |
| 40°   | 4547.1 | 4500.7 | 4273.9  | 3699.3  | 3225.1  | 3087.9  | 2985.3  | 2814.7 | 2680.8 | 2632.2 |
| 42.5° | 5214.6 | 5148.7 | 4904.6  | 4156.1  | 3512.4  | 3313.7  | 3159.2  | 2906.5 | 2738.0 | 2663.5 |
| 45°   | 6034.4 | 5946.9 | 5601.3  | 4671.3  | 3874.2  | 3609.6  | 3403.3  | 3045.8 | 2825.5 | 2724.0 |
| 47.5° | 6862.8 | 6884.4 | 6393.0  | 5261.1  | 4308.4  | 3974.7  | 3709.0  | 3255.4 | 2952.9 | 2821.2 |
| 50°   | 7743.1 | 7758.2 | 7180.4  | 5914.5  | 4801.0  | 4387.3  | 4052.5  | 3489.7 | 3130.1 | 2959.4 |
| 52.5° | 8430.0 | 8432.2 | 7895.4  | 6598.2  | 5314.0  | 4840.9  | 4422.9  | 3757.6 | 3335.3 | 3143.0 |
| 55°   | 8859.9 | 8854.5 | 8396.5  | 7245.2  | 5903.7  | 5317.2  | 4833.4  | 4062.2 | 3585.9 | 3359.0 |
| 57.5° | 9172.0 | 9155.8 | 8742.2  | 7801.4  | 6532.3  | 5880.0  | 5297.8  | 4407.8 | 3881.8 | 3616.1 |
| 60°   | 9290.8 | 9281.1 | 8976.5  | 8282.0  | 7193.3  | 6502.1  | 5833.5  | 4794.5 | 4217.7 | 3919.6 |
| 62.5° | 9336.2 | 9354.6 | 9206.6  | 8747.6  | 7900.8  | 7191.2  | 6422.2  | 5256.7 | 4595.7 | 4263.1 |
| 65°   | 9496.1 | 9529.5 | 9499.3  | 9356.7  | 8700.0  | 7998.0  | 7203.0  | 5806.5 | 5008.3 | 4631.4 |
| 67.5° | 9812.5 | 9846.0 | 9859.0  | 10085.8 | 9676.4  | 9003.5  | 8177.3  | 6491.3 | 5491.1 | 5013.7 |
| 70°   | 9805.0 | 9795.2 | 10024.2 | 10665.8 | 10899.1 | 10395.8 | 9490.7  | 7333.7 | 6066.8 | 5331.3 |
| 72.5° | 8924.7 | 8846.9 | 9388.0  | 10659.3 | 11916.5 | 11849.5 | 11094.6 | 8420.3 | 6563.6 | 5370.2 |
| 75°   | 6695.4 | 6488.0 | 7443.9  | 9606.2  | 12086.1 | 12674.7 | 12114.2 | 9094.3 | 6445.9 | 4744.8 |
| 77.5° | 2863.3 | 2654.8 | 3781.4  | 7111.2  | 10817.0 | 11848.5 | 11178.8 | 7934.3 | 5145.5 | 3137.6 |
| 80°   | 749.6  | 748.5  | 1142.7  | 3224.0  | 7356.4  | 8749.7  | 7676.1  | 5123.9 | 2940.0 | 1121.1 |
| 82.5° | 310.0  | 302.4  | 420.2   | 1254.0  | 3594.5  | 4910.0  | 4007.1  | 2285.4 | 1061.7 | 303.5  |
| 85°   | 115.6  | 114.5  | 204.1   | 433.1   | 1268.0  | 2025.1  | 1465.7  | 584.3  | 264.6  | 148.0  |
| 87.5° | 32.4   | 31.3   | 44.3    | 150.1   | 308.9   | 468.8   | 250.6   | 96.1   | 74.5   | 58.3   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2328.7 | 0°    | 2328.7 | 2328.7 | 2328.7 | 2328.7 | 2328.7 | 2328.7 | 2328.7 | 2328.7 | 2328.7 | 2328.7 |
| 2333.0 | 2.5°  | 2336.2 | 2341.6 | 2351.3 | 2358.9 | 2368.6 | 2379.4 | 2394.5 | 2404.3 | 2414.0 | 2420.5 |
| 2338.4 | 5°    | 2345.9 | 2357.8 | 2382.7 | 2407.5 | 2436.7 | 2463.7 | 2495.0 | 2517.7 | 2536.0 | 2541.4 |
| 2357.8 | 7.5°  | 2367.5 | 2387.0 | 2429.1 | 2471.2 | 2517.7 | 2561.9 | 2607.3 | 2646.2 | 2677.5 | 2689.4 |
| 2392.4 | 10°   | 2405.3 | 2431.3 | 2490.7 | 2550.1 | 2611.6 | 2679.7 | 2738.0 | 2794.2 | 2838.4 | 2856.8 |
| 2433.4 | 12.5° | 2452.9 | 2485.3 | 2563.0 | 2645.1 | 2730.4 | 2824.4 | 2900.0 | 2969.1 | 3024.2 | 3049.1 |
| 2490.7 | 15°   | 2514.4 | 2556.5 | 2655.9 | 2766.1 | 2891.4 | 3022.1 | 3118.2 | 3194.9 | 3256.4 | 3286.7 |
| 2550.1 | 17.5° | 2581.4 | 2637.6 | 2762.8 | 2929.2 | 3108.5 | 3280.2 | 3392.5 | 3448.7 | 3512.4 | 3541.6 |
| 2605.2 | 20°   | 2646.2 | 2715.3 | 2894.6 | 3136.5 | 3375.2 | 3557.8 | 3648.5 | 3663.6 | 3667.9 | 3671.2 |
| 2657.0 | 22.5° | 2713.2 | 2806.0 | 3059.9 | 3397.9 | 3653.9 | 3780.3 | 3793.2 | 3728.4 | 3637.7 | 3595.6 |
| 2707.8 | 25°   | 2786.6 | 2909.7 | 3275.9 | 3686.3 | 3893.7 | 3908.8 | 3809.4 | 3651.7 | 3480.0 | 3401.2 |
| 2748.8 | 27.5° | 2857.9 | 3029.6 | 3535.1 | 3961.7 | 4066.5 | 3933.6 | 3719.8 | 3496.2 | 3288.8 | 3205.7 |
| 2778.0 | 30°   | 2929.2 | 3166.8 | 3821.3 | 4202.6 | 4145.3 | 3872.1 | 3578.3 | 3328.8 | 3120.3 | 3032.9 |
| 2803.9 | 32.5° | 3001.5 | 3326.6 | 4150.7 | 4376.5 | 4131.3 | 3741.4 | 3402.2 | 3140.9 | 2957.3 | 2865.4 |
| 2826.6 | 35°   | 3083.6 | 3523.2 | 4462.9 | 4471.5 | 4037.3 | 3549.1 | 3170.0 | 2916.2 | 2756.4 | 2682.9 |
| 2853.6 | 37.5° | 3190.6 | 3772.7 | 4738.3 | 4495.3 | 3873.2 | 3267.2 | 2881.7 | 2650.5 | 2518.7 | 2485.3 |
| 2893.5 | 40°   | 3323.4 | 4073.0 | 4948.9 | 4457.5 | 3630.1 | 2924.9 | 2566.3 | 2381.6 | 2307.0 | 2314.6 |
| 2947.5 | 42.5° | 3496.2 | 4408.9 | 5096.9 | 4360.3 | 3292.1 | 2571.7 | 2289.8 | 2207.7 | 2243.3 | 2273.6 |
| 3028.5 | 45°   | 3720.9 | 4757.7 | 5188.7 | 4195.0 | 2909.7 | 2272.5 | 2126.7 | 2146.1 | 2173.1 | 2176.4 |
| 3159.2 | 47.5° | 4008.2 | 5110.9 | 5249.2 | 3945.5 | 2519.8 | 2061.9 | 2023.0 | 2027.3 | 2021.9 | 1999.2 |
| 3354.7 | 50°   | 4366.8 | 5454.4 | 5303.2 | 3615.0 | 2188.2 | 1930.1 | 1878.3 | 1863.1 | 1788.6 | 1715.2 |
| 3615.0 | 52.5° | 4775.0 | 5769.8 | 5325.9 | 3204.6 | 1930.1 | 1819.9 | 1735.7 | 1640.6 | 1501.3 | 1478.6 |
| 3942.3 | 55°   | 5228.7 | 6061.4 | 5267.5 | 2700.2 | 1713.0 | 1678.4 | 1551.0 | 1436.5 | 1421.4 | 1401.9 |
| 4373.2 | 57.5° | 5770.9 | 6375.7 | 5148.7 | 2137.5 | 1490.5 | 1513.2 | 1389.0 | 1401.9 | 1374.9 | 1344.7 |
| 4927.3 | 60°   | 6363.8 | 6700.8 | 4940.3 | 1624.4 | 1260.5 | 1306.9 | 1346.9 | 1345.8 | 1338.2 | 1313.4 |
| 5511.6 | 62.5° | 6897.4 | 6914.7 | 4529.9 | 1244.3 | 1058.5 | 1147.0 | 1256.1 | 1255.1 | 1248.6 | 1234.5 |
| 6121.9 | 65°   | 7214.9 | 6882.3 | 3845.1 | 979.6  | 892.1  | 1015.3 | 1133.0 | 1141.6 | 1142.7 | 1141.6 |
| 6580.9 | 67.5° | 7158.8 | 6503.2 | 2905.4 | 779.8  | 755.0  | 881.3  | 1011.0 | 1022.8 | 1031.5 | 1033.6 |
| 6639.2 | 70°   | 6523.7 | 5670.4 | 1894.5 | 622.1  | 632.9  | 763.6  | 895.4  | 907.3  | 914.8  | 923.5  |
| 5761.1 | 72.5° | 5085.0 | 4169.1 | 1084.4 | 503.3  | 526.0  | 662.1  | 780.9  | 794.9  | 799.3  | 815.5  |
| 4009.3 | 75°   | 3098.7 | 2451.8 | 585.4  | 396.4  | 432.0  | 566.0  | 667.5  | 683.7  | 691.3  | 710.7  |
| 1969.0 | 77.5° | 1473.2 | 1061.7 | 333.7  | 308.9  | 347.8  | 462.3  | 563.8  | 582.2  | 561.6  | 572.4  |
| 543.3  | 80°   | 497.9  | 394.2  | 210.6  | 235.5  | 265.7  | 360.7  | 451.5  | 469.8  | 426.6  | 424.5  |
| 180.4  | 82.5° | 173.9  | 159.9  | 133.9  | 156.6  | 171.7  | 258.1  | 341.3  | 365.1  | 317.5  | 316.5  |
| 81.0   | 85°   | 68.0   | 64.8   | 74.5   | 85.3   | 102.6  | 158.8  | 224.7  | 236.5  | 195.5  | 157.7  |
| 23.8   | 87.5° | 14.0   | 15.1   | 18.4   | 19.4   | 31.3   | 55.1   | 81.0   | 99.4   | 78.8   | 67.0   |
| 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°   |
|--------|
| 2328.7 |
| 2416.1 |
| 2543.6 |
| 2690.5 |
| 2857.9 |
| 3049.1 |
| 3284.5 |
| 3540.5 |
| 3679.8 |
| 3607.5 |
| 3413.0 |
| 3215.4 |
| 3042.6 |
| 2877.3 |
| 2699.1 |
| 2509.0 |
| 2340.5 |
| 2301.6 |
| 2198.0 |
| 2016.5 |
| 1724.9 |
| 1486.2 |
| 1405.2 |
| 1339.3 |
| 1304.7 |
| 1229.1 |
| 1141.6 |
| 1035.8 |
| 927.8  |
| 821.9  |
| 712.9  |
| 563.8  |
| 420.2  |
| 301.3  |
| 155.5  |
| 61.6   |
| 0.0    |

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