

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: P159789

Luminaire Tested: **VST-E07-LED-E-U-T4-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159789  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33707)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VST-E07-LED-E-U-T4-7030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT  
Light Source: (147) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19029.2 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 172.5  
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: 28.75 FT



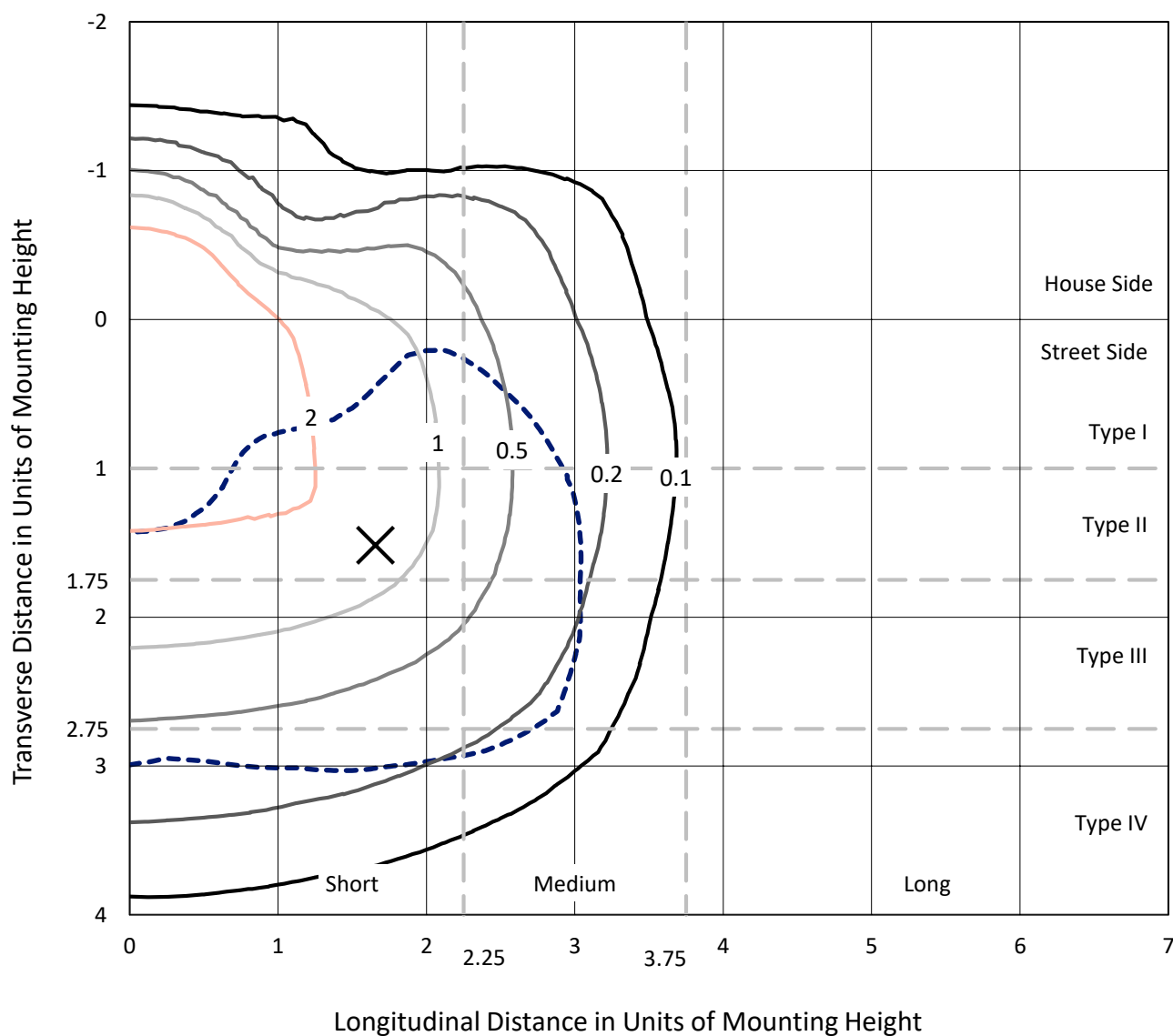
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

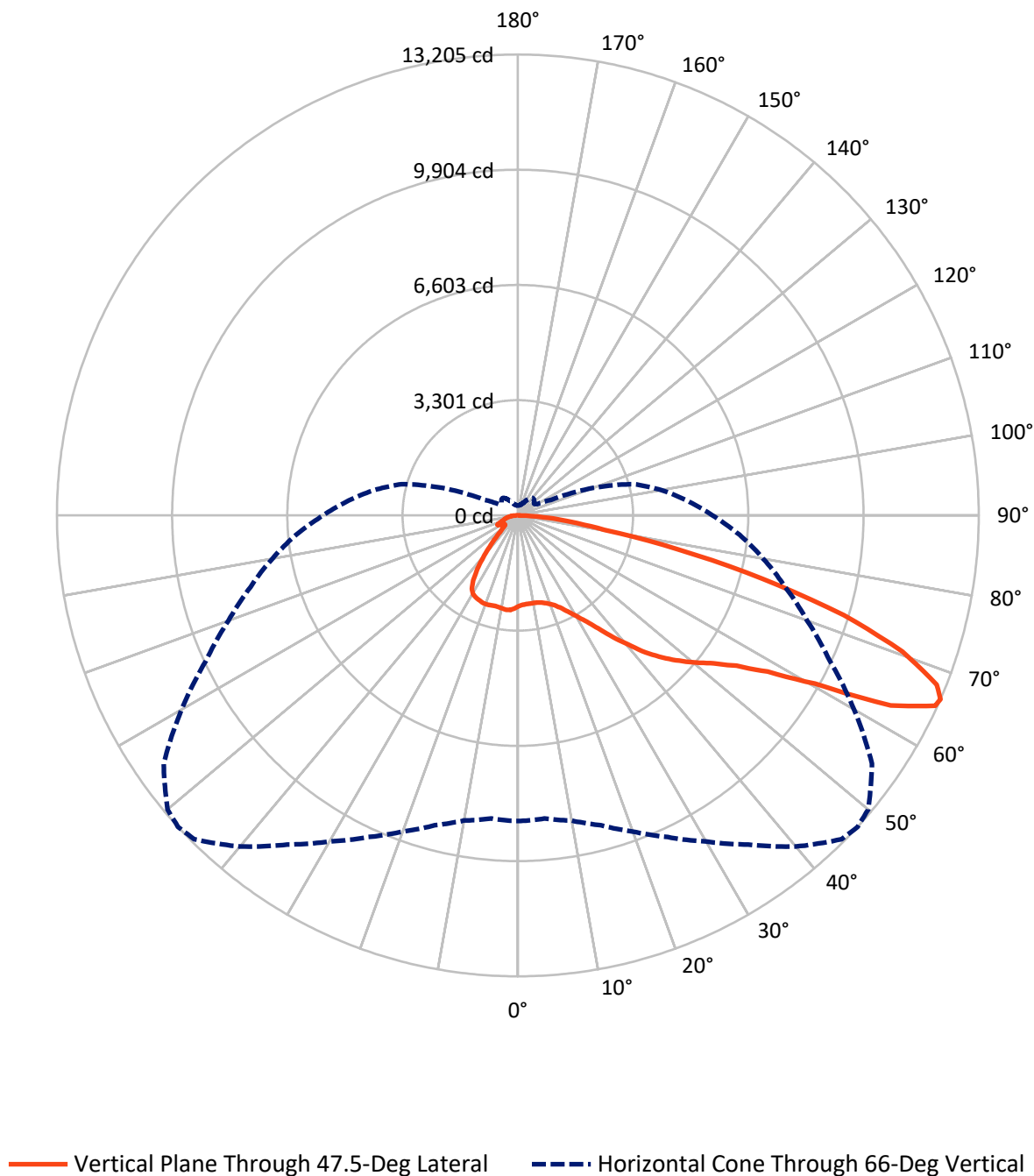


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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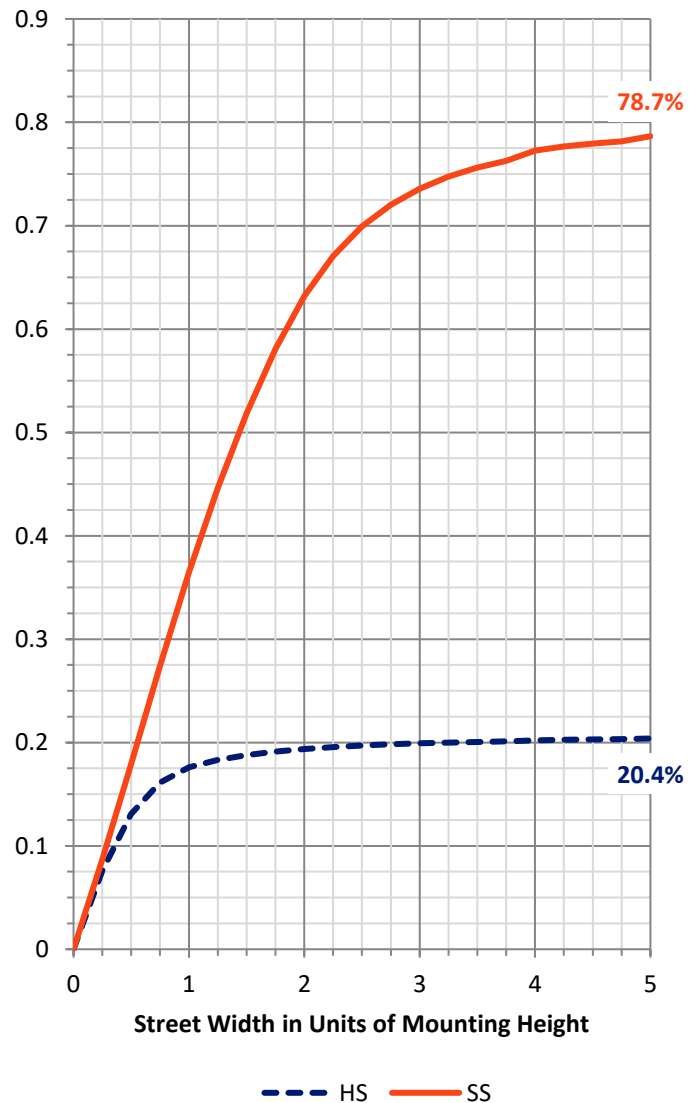
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3939.9   | 0.0    | 3939.9  |
|                    | % Fixture | 20.7     | 0.0    | 20.7    |
| <b>Street Side</b> | Lumens    | 15089.3  | 0.0    | 15089.3 |
|                    | % Fixture | 79.3     | 0.0    | 79.3    |
| <b>Total</b>       | Lumens    | 19029.2  | 0.0    | 19029.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 250.9   | 1.3       |
| 10°-20°   | 752.5   | 4.0       |
| 20°-30°   | 1283.9  | 6.7       |
| 30°-40°   | 1937.8  | 10.2      |
| 40°-50°   | 2518.7  | 13.2      |
| 50°-60°   | 3455.5  | 18.2      |
| 60°-70°   | 5315.6  | 27.9      |
| 70°-80°   | 3072.8  | 16.1      |
| 80°-90°   | 441.4   | 2.3       |
| 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°    | 19029.2 | 100.0     |
| 0°-180°   | 19029.2 | 100.0     |

**Coefficient of Utilization**



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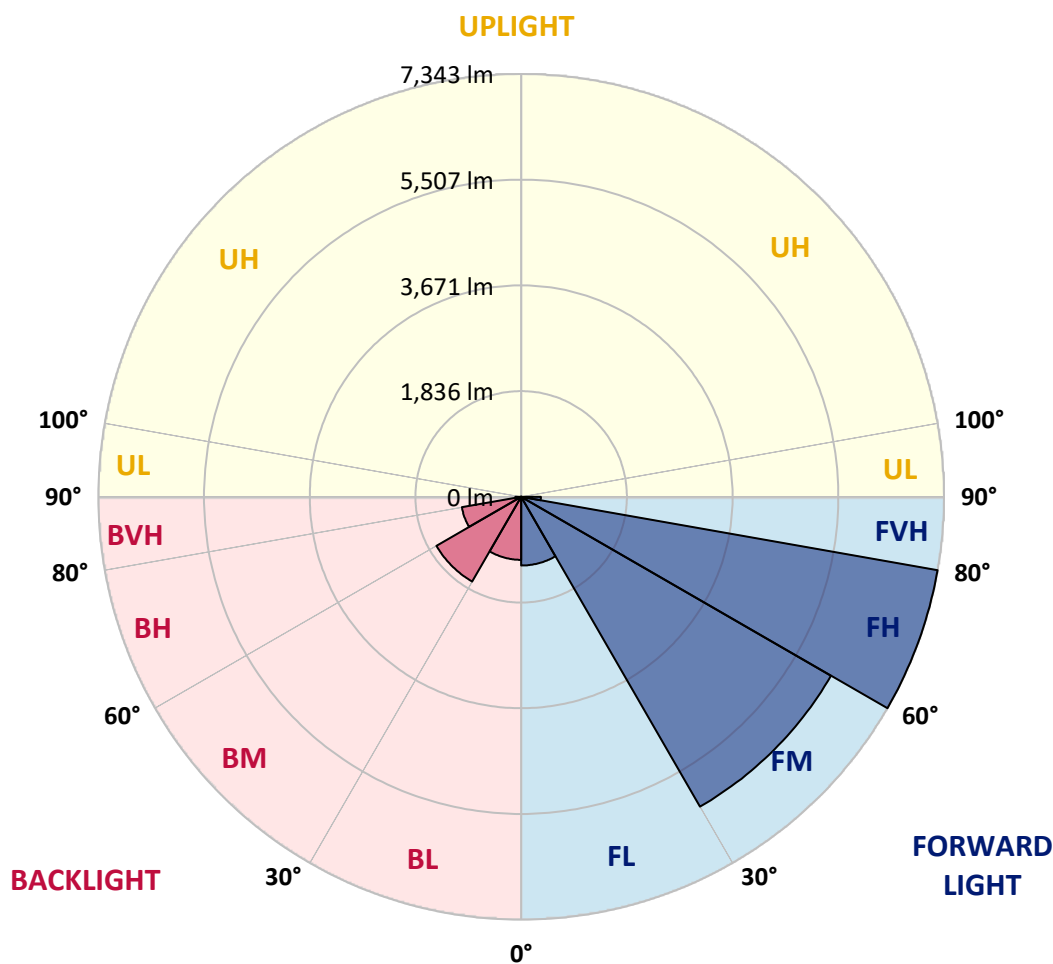
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1192.8 | 6.3       |                         |      |         |
| FM   | (30°-60°)   | 6212.2 | 32.6      |                         |      |         |
| FH   | (60°-80°)   | 7342.7 | 38.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 341.6  | 1.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1094.5 | 5.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1699.9 | 8.9       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1045.7 | 5.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 99.8   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°     | 30°     | 35°     | 40°     | 45°     | 47.5°   |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 2603.4 | 2603.4 | 2603.4 | 2603.4 | 2603.4 | 2603.4  | 2603.4  | 2603.4  | 2603.4  | 2603.4  | 2603.4  |
| 2.5°  | 2536.9 | 2538.2 | 2539.5 | 2539.5 | 2543.3 | 2543.3  | 2549.7  | 2553.5  | 2554.8  | 2562.5  | 2567.6  |
| 5°    | 2489.6 | 2488.3 | 2489.6 | 2492.2 | 2498.6 | 2503.7  | 2516.5  | 2525.4  | 2533.1  | 2545.9  | 2552.3  |
| 7.5°  | 2469.2 | 2471.7 | 2474.3 | 2475.5 | 2480.7 | 2493.4  | 2505.0  | 2513.9  | 2529.2  | 2544.6  | 2551.0  |
| 10°   | 2496.0 | 2499.8 | 2496.0 | 2498.6 | 2498.6 | 2510.1  | 2515.2  | 2521.6  | 2533.1  | 2547.2  | 2551.0  |
| 12.5° | 2558.7 | 2566.3 | 2558.7 | 2552.3 | 2547.2 | 2557.4  | 2554.8  | 2549.7  | 2556.1  | 2559.9  | 2559.9  |
| 15°   | 2662.2 | 2662.2 | 2657.1 | 2648.2 | 2635.4 | 2636.7  | 2625.2  | 2613.6  | 2608.5  | 2599.6  | 2593.2  |
| 17.5° | 2763.3 | 2760.7 | 2749.2 | 2737.7 | 2728.7 | 2724.9  | 2708.3  | 2692.9  | 2675.0  | 2661.0  | 2645.6  |
| 20°   | 2861.7 | 2871.9 | 2857.9 | 2841.3 | 2827.2 | 2818.2  | 2805.4  | 2774.8  | 2753.0  | 2730.0  | 2714.7  |
| 22.5° | 3031.8 | 3022.8 | 3007.5 | 2983.2 | 2969.1 | 2953.8  | 2926.9  | 2893.7  | 2860.4  | 2832.3  | 2813.1  |
| 25°   | 3207.0 | 3198.0 | 3176.3 | 3158.4 | 3137.9 | 3125.1  | 3095.7  | 3054.8  | 3022.8  | 2979.3  | 2953.8  |
| 27.5° | 3394.9 | 3387.3 | 3361.7 | 3347.6 | 3333.5 | 3318.2  | 3292.6  | 3250.4  | 3221.0  | 3171.2  | 3144.3  |
| 30°   | 3607.2 | 3605.9 | 3571.4 | 3568.8 | 3548.4 | 3531.7  | 3513.8  | 3478.0  | 3448.6  | 3398.8  | 3366.8  |
| 32.5° | 3833.5 | 3828.4 | 3804.1 | 3796.4 | 3810.5 | 3799.0  | 3773.4  | 3736.3  | 3698.0  | 3668.6  | 3632.8  |
| 35°   | 4155.7 | 4146.8 | 4132.7 | 4139.1 | 4148.1 | 4180.0  | 4140.4  | 4108.4  | 4062.4  | 4024.0  | 3974.2  |
| 37.5° | 4391.0 | 4378.2 | 4394.9 | 4430.7 | 4481.8 | 4506.1  | 4540.6  | 4541.9  | 4520.2  | 4469.0  | 4425.5  |
| 40°   | 4607.1 | 4602.0 | 4640.4 | 4690.2 | 4784.9 | 4853.9  | 4919.1  | 4951.1  | 4958.8  | 4925.5  | 4860.3  |
| 42.5° | 4790.0 | 4805.3 | 4856.5 | 4933.2 | 5066.2 | 5171.0  | 5292.5  | 5367.9  | 5415.3  | 5397.4  | 5367.9  |
| 45°   | 5007.4 | 5015.0 | 5077.7 | 5174.9 | 5301.5 | 5475.4  | 5635.2  | 5763.1  | 5846.2  | 5844.9  | 5811.6  |
| 47.5° | 5279.7 | 5281.0 | 5334.7 | 5448.5 | 5584.0 | 5760.5  | 5962.5  | 6132.6  | 6242.6  | 6247.7  | 6222.1  |
| 50°   | 5603.2 | 5600.7 | 5659.5 | 5766.9 | 5911.4 | 6081.5  | 6296.3  | 6508.5  | 6662.0  | 6662.0  | 6624.9  |
| 52.5° | 6020.1 | 6015.0 | 6046.9 | 6141.6 | 6280.9 | 6459.9  | 6673.5  | 6919.0  | 7085.2  | 7121.0  | 7040.5  |
| 55°   | 6576.3 | 6584.0 | 6591.6 | 6674.8 | 6793.7 | 6935.6  | 7181.1  | 7407.5  | 7629.9  | 7650.4  | 7603.1  |
| 57.5° | 7219.5 | 7193.9 | 7248.9 | 7384.4 | 7520.0 | 7697.7  | 7871.6  | 8138.9  | 8402.3  | 8447.0  | 8440.6  |
| 60°   | 8224.5 | 8191.3 | 8247.6 | 8420.2 | 8569.8 | 8849.8  | 9147.8  | 9493.0  | 9805.0  | 9897.1  | 9785.8  |
| 62.5° | 9149.0 | 9189.9 | 9266.7 | 9467.4 | 9684.8 | 10058.2 | 10505.7 | 11097.8 | 11689.8 | 12012.0 | 11989.0 |
| 65°   | 9065.9 | 9027.6 | 9174.6 | 9448.2 | 9842.1 | 10317.8 | 10874.0 | 11587.5 | 12440.4 | 13087.4 | 13144.9 |
| 66°   | 8757.8 | 8718.1 | 8876.7 | 9189.9 | 9640.0 | 10169.4 | 10787.0 | 11513.3 | 12385.4 | 13116.8 | 13205.0 |
| 67.5° | 8248.8 | 8209.2 | 8388.2 | 8673.4 | 9137.5 | 9803.7  | 10471.2 | 11265.3 | 12171.9 | 12872.6 | 12944.2 |
| 70°   | 7266.8 | 7213.1 | 7352.5 | 7674.7 | 8050.6 | 8695.1  | 9330.6  | 10172.0 | 11102.9 | 11662.9 | 11689.8 |
| 72.5° | 6155.6 | 6030.3 | 6178.6 | 6426.7 | 6695.2 | 7228.4  | 7782.1  | 8357.5  | 9099.2  | 9617.0  | 9765.4  |
| 75°   | 4466.5 | 4531.7 | 4575.2 | 4738.8 | 4916.6 | 5357.7  | 5682.5  | 6164.6  | 6738.7  | 7113.4  | 7232.3  |
| 77.5° | 2369.4 | 2467.9 | 2529.2 | 2692.9 | 2987.0 | 3323.3  | 3675.0  | 3972.9  | 4350.1  | 4559.8  | 4705.6  |
| 80°   | 1329.8 | 1398.9 | 1498.6 | 1627.8 | 1771.0 | 2029.3  | 2237.7  | 2391.2  | 2444.9  | 2481.9  | 2515.2  |
| 82.5° | 731.4  | 906.6  | 1054.9 | 1144.4 | 1228.8 | 1332.4  | 1456.4  | 1584.3  | 1625.2  | 1563.8  | 1531.9  |
| 85°   | 113.8  | 167.5  | 510.2  | 622.7  | 677.7  | 757.0   | 846.5   | 941.1   | 942.4   | 810.7   | 884.9   |
| 87.5° | 32.0   | 35.8   | 72.9   | 110.0  | 107.4  | 87.0    | 107.4   | 195.6   | 115.1   | 57.5    | 66.5    |
| 90°   | 0.0    | 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):**

|       | 50°     | 55°     | 60°     | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2603.4  | 2603.4  | 2603.4  | 2603.4 | 2603.4 | 2603.4 | 2603.4 | 2603.4 | 2603.4 | 2603.4 | 2603.4 |
| 2.5°  | 2570.2  | 2572.7  | 2579.1  | 2585.5 | 2591.9 | 2598.3 | 2602.1 | 2608.5 | 2613.6 | 2621.3 | 2630.3 |
| 5°    | 2559.9  | 2566.3  | 2577.8  | 2591.9 | 2604.7 | 2616.2 | 2625.2 | 2637.9 | 2649.4 | 2659.7 | 2675.0 |
| 7.5°  | 2559.9  | 2572.7  | 2591.9  | 2607.2 | 2618.8 | 2632.8 | 2646.9 | 2659.7 | 2672.5 | 2682.7 | 2692.9 |
| 10°   | 2561.2  | 2574.0  | 2593.2  | 2611.1 | 2623.9 | 2639.2 | 2650.7 | 2662.2 | 2676.3 | 2682.7 | 2695.5 |
| 12.5° | 2566.3  | 2571.4  | 2585.5  | 2603.4 | 2618.8 | 2634.1 | 2645.6 | 2657.1 | 2672.5 | 2675.0 | 2684.0 |
| 15°   | 2591.9  | 2584.2  | 2588.1  | 2600.9 | 2617.5 | 2630.3 | 2643.1 | 2652.0 | 2662.2 | 2659.7 | 2667.3 |
| 17.5° | 2639.2  | 2620.0  | 2612.4  | 2613.6 | 2621.3 | 2630.3 | 2635.4 | 2636.7 | 2637.9 | 2626.4 | 2627.7 |
| 20°   | 2703.2  | 2676.3  | 2658.4  | 2649.4 | 2639.2 | 2630.3 | 2616.2 | 2599.6 | 2584.2 | 2561.2 | 2558.7 |
| 22.5° | 2799.1  | 2759.4  | 2740.2  | 2715.9 | 2685.2 | 2646.9 | 2612.4 | 2571.4 | 2538.2 | 2503.7 | 2490.9 |
| 25°   | 2938.4  | 2897.5  | 2877.1  | 2838.7 | 2783.7 | 2728.7 | 2678.9 | 2623.9 | 2575.3 | 2534.4 | 2515.2 |
| 27.5° | 3125.1  | 3084.2  | 3062.5  | 3022.8 | 2955.1 | 2900.1 | 2831.0 | 2772.2 | 2713.4 | 2653.3 | 2629.0 |
| 30°   | 3351.4  | 3315.6  | 3291.3  | 3259.4 | 3200.6 | 3140.5 | 3059.9 | 2969.1 | 2875.8 | 2779.9 | 2732.6 |
| 32.5° | 3618.7  | 3579.1  | 3561.2  | 3524.1 | 3462.7 | 3400.0 | 3310.5 | 3194.2 | 3038.2 | 2887.3 | 2792.7 |
| 35°   | 3952.4  | 3907.7  | 3887.2  | 3838.6 | 3767.0 | 3675.0 | 3579.1 | 3423.1 | 3212.1 | 3002.4 | 2847.6 |
| 37.5° | 4398.7  | 4299.0  | 4231.2  | 4119.9 | 4004.9 | 3875.7 | 3738.9 | 3579.1 | 3329.7 | 3070.1 | 2855.3 |
| 40°   | 4793.8  | 4692.8  | 4562.4  | 4402.5 | 4223.5 | 4045.8 | 3889.8 | 3708.2 | 3437.1 | 3118.7 | 2831.0 |
| 42.5° | 5284.8  | 5105.8  | 4897.4  | 4681.3 | 4443.4 | 4224.8 | 4039.4 | 3825.8 | 3510.0 | 3131.5 | 2763.3 |
| 45°   | 5733.6  | 5520.1  | 5241.4  | 4953.6 | 4658.3 | 4383.4 | 4174.9 | 3937.1 | 3572.7 | 3131.5 | 2681.4 |
| 47.5° | 6142.8  | 5887.1  | 5553.4  | 5195.3 | 4851.4 | 4550.9 | 4314.3 | 4050.9 | 3660.9 | 3171.2 | 2657.1 |
| 50°   | 6521.3  | 6227.2  | 5847.5  | 5431.9 | 5045.7 | 4724.8 | 4470.3 | 4196.7 | 3795.2 | 3273.4 | 2715.9 |
| 52.5° | 6920.3  | 6608.3  | 6145.4  | 5704.2 | 5278.4 | 4934.5 | 4663.4 | 4377.0 | 3969.1 | 3434.6 | 2819.5 |
| 55°   | 7443.3  | 7077.6  | 6552.0  | 6066.1 | 5598.1 | 5218.3 | 4910.2 | 4593.1 | 4159.6 | 3616.1 | 2946.1 |
| 57.5° | 8268.0  | 7737.4  | 7211.8  | 6580.1 | 6139.0 | 5639.0 | 5301.5 | 4937.0 | 4469.0 | 3852.7 | 3136.6 |
| 60°   | 9711.7  | 9059.5  | 8427.8  | 7701.6 | 7156.8 | 6633.8 | 6123.6 | 5648.0 | 5084.1 | 4387.2 | 3554.8 |
| 62.5° | 11772.9 | 11110.5 | 10118.3 | 9229.6 | 8407.4 | 7714.3 | 7049.4 | 6444.6 | 5720.9 | 4958.8 | 4070.1 |
| 65°   | 13004.3 | 12246.0 | 11063.2 | 9868.9 | 8870.3 | 8011.0 | 7250.2 | 6509.8 | 5728.5 | 4985.6 | 4226.1 |
| 66°   | 13102.7 | 12385.4 | 11122.0 | 9860.0 | 8823.0 | 7931.7 | 7140.2 | 6374.3 | 5573.8 | 4862.9 | 4174.9 |
| 67.5° | 12919.9 | 12302.3 | 11001.9 | 9686.1 | 8626.0 | 7663.2 | 6849.9 | 6046.9 | 5242.6 | 4584.1 | 4004.9 |
| 70°   | 11629.7 | 11183.4 | 10068.4 | 8835.8 | 7778.3 | 6929.2 | 6071.2 | 5298.9 | 4536.8 | 3983.1 | 3553.5 |
| 72.5° | 9533.9  | 8968.7  | 8188.7  | 7360.1 | 6527.7 | 5774.6 | 4994.6 | 4337.3 | 3698.0 | 3295.2 | 2990.9 |
| 75°   | 7003.4  | 6494.5  | 5635.2  | 5118.6 | 4568.8 | 4095.6 | 3570.1 | 2947.4 | 2493.4 | 2291.4 | 2217.2 |
| 77.5° | 4439.6  | 3887.2  | 3162.2  | 2591.9 | 2228.8 | 1915.5 | 1510.1 | 1200.7 | 961.6  | 1001.2 | 1108.6 |
| 80°   | 2242.8  | 1932.1  | 1446.2  | 1141.9 | 987.1  | 820.9  | 649.6  | 492.3  | 359.3  | 410.5  | 464.2  |
| 82.5° | 1439.8  | 1202.0  | 957.7   | 754.4  | 636.8  | 561.3  | 448.8  | 326.1  | 243.0  | 273.6  | 335.0  |
| 85°   | 867.0   | 732.7   | 584.4   | 478.2  | 415.6  | 346.5  | 254.5  | 180.3  | 179.0  | 191.8  | 236.6  |
| 87.5° | 131.7   | 188.0   | 108.7   | 116.4  | 122.8  | 131.7  | 116.4  | 98.5   | 85.7   | 111.2  | 140.7  |
| 90°   | 0.0     | 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):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2603.4 | 2603.4 | 2603.4 | 2603.4 | 2603.4 | 2603.4 | 2603.4 | 2603.4 | 2603.4 | 2603.4 | 2603.4 |
| 2.5°  | 2639.2 | 2641.8 | 2646.9 | 2653.3 | 2652.0 | 2661.0 | 2666.1 | 2661.0 | 2672.5 | 2672.5 | 2678.9 |
| 5°    | 2687.8 | 2691.6 | 2700.6 | 2707.0 | 2709.5 | 2717.2 | 2719.8 | 2718.5 | 2721.1 | 2722.3 | 2724.9 |
| 7.5°  | 2701.9 | 2712.1 | 2715.9 | 2719.8 | 2721.1 | 2723.6 | 2723.6 | 2721.1 | 2721.1 | 2719.8 | 2722.3 |
| 10°   | 2698.0 | 2701.9 | 2704.4 | 2703.2 | 2703.2 | 2700.6 | 2699.3 | 2698.0 | 2698.0 | 2695.5 | 2699.3 |
| 12.5° | 2685.2 | 2685.2 | 2685.2 | 2682.7 | 2682.7 | 2681.4 | 2681.4 | 2681.4 | 2684.0 | 2685.2 | 2691.6 |
| 15°   | 2659.7 | 2659.7 | 2662.2 | 2661.0 | 2664.8 | 2671.2 | 2678.9 | 2684.0 | 2690.4 | 2691.6 | 2695.5 |
| 17.5° | 2620.0 | 2621.3 | 2629.0 | 2645.6 | 2662.2 | 2681.4 | 2695.5 | 2699.3 | 2694.2 | 2681.4 | 2672.5 |
| 20°   | 2551.0 | 2567.6 | 2598.3 | 2637.9 | 2675.0 | 2699.3 | 2705.7 | 2690.4 | 2666.1 | 2632.8 | 2614.9 |
| 22.5° | 2489.6 | 2522.9 | 2577.8 | 2643.1 | 2689.1 | 2705.7 | 2686.5 | 2650.7 | 2607.2 | 2568.9 | 2542.0 |
| 25°   | 2513.9 | 2552.3 | 2609.8 | 2666.1 | 2695.5 | 2686.5 | 2648.2 | 2597.0 | 2551.0 | 2506.2 | 2462.8 |
| 27.5° | 2616.2 | 2654.6 | 2695.5 | 2712.1 | 2701.9 | 2668.6 | 2614.9 | 2559.9 | 2498.6 | 2434.6 | 2380.9 |
| 30°   | 2713.4 | 2735.1 | 2737.7 | 2721.1 | 2684.0 | 2630.3 | 2567.6 | 2503.7 | 2425.7 | 2349.0 | 2281.2 |
| 32.5° | 2744.1 | 2718.5 | 2672.5 | 2625.2 | 2574.0 | 2519.0 | 2446.1 | 2361.7 | 2278.6 | 2191.7 | 2116.2 |
| 35°   | 2735.1 | 2631.5 | 2517.7 | 2416.7 | 2355.3 | 2292.7 | 2226.2 | 2113.7 | 2020.3 | 1946.2 | 1897.6 |
| 37.5° | 2654.6 | 2465.3 | 2290.1 | 2143.1 | 2047.2 | 1973.0 | 1874.6 | 1781.2 | 1700.7 | 1667.4 | 1627.8 |
| 40°   | 2542.0 | 2253.1 | 2010.1 | 1804.2 | 1704.5 | 1609.9 | 1499.9 | 1428.3 | 1405.3 | 1374.6 | 1375.9 |
| 42.5° | 2380.9 | 2005.0 | 1691.7 | 1455.1 | 1346.5 | 1242.9 | 1164.9 | 1122.7 | 1124.0 | 1098.4 | 1103.5 |
| 45°   | 2210.9 | 1755.6 | 1361.8 | 1126.5 | 1019.1 | 930.9  | 887.4  | 874.6  | 875.9  | 877.2  | 869.5  |
| 47.5° | 2107.3 | 1561.3 | 1092.0 | 854.2  | 759.5  | 709.7  | 686.7  | 680.3  | 681.5  | 682.8  | 673.9  |
| 50°   | 2091.9 | 1460.3 | 911.7  | 653.4  | 592.0  | 563.9  | 552.4  | 546.0  | 546.0  | 540.9  | 533.2  |
| 52.5° | 2135.4 | 1434.7 | 823.5  | 566.5  | 507.6  | 482.1  | 473.1  | 468.0  | 460.3  | 450.1  | 436.0  |
| 55°   | 2204.5 | 1457.7 | 796.6  | 537.0  | 479.5  | 453.9  | 442.4  | 439.9  | 427.1  | 407.9  | 384.9  |
| 57.5° | 2332.3 | 1540.8 | 814.5  | 544.7  | 484.6  | 461.6  | 453.9  | 451.4  | 433.5  | 404.1  | 374.7  |
| 60°   | 2699.3 | 1782.5 | 904.0  | 588.2  | 521.7  | 502.5  | 502.5  | 498.7  | 474.4  | 432.2  | 390.0  |
| 62.5° | 3205.7 | 2136.7 | 1025.5 | 648.3  | 572.9  | 570.3  | 592.0  | 593.3  | 549.8  | 482.1  | 415.6  |
| 65°   | 3449.9 | 2302.9 | 1067.7 | 661.1  | 586.9  | 616.3  | 659.8  | 659.8  | 598.4  | 505.1  | 419.4  |
| 66°   | 3451.2 | 2299.1 | 1054.9 | 645.7  | 571.6  | 609.9  | 654.7  | 654.7  | 590.8  | 498.7  | 413.0  |
| 67.5° | 3363.0 | 2227.5 | 1012.7 | 617.6  | 537.0  | 572.9  | 612.5  | 611.2  | 553.7  | 473.1  | 395.1  |
| 70°   | 3016.4 | 1970.5 | 892.5  | 571.6  | 496.1  | 497.4  | 511.5  | 502.5  | 464.2  | 409.2  | 359.3  |
| 72.5° | 2600.9 | 1648.2 | 773.6  | 542.2  | 464.2  | 439.9  | 428.4  | 420.7  | 396.4  | 363.1  | 332.5  |
| 75°   | 1994.8 | 1280.0 | 673.9  | 515.3  | 436.0  | 393.8  | 378.5  | 372.1  | 355.5  | 336.3  | 312.0  |
| 77.5° | 1222.4 | 877.2  | 571.6  | 471.8  | 404.1  | 365.7  | 349.1  | 336.3  | 319.7  | 301.8  | 285.1  |
| 80°   | 526.8  | 529.4  | 457.8  | 400.2  | 351.6  | 306.9  | 285.1  | 269.8  | 260.9  | 254.5  | 245.5  |
| 82.5° | 368.3  | 379.8  | 349.1  | 310.7  | 268.5  | 236.6  | 217.4  | 213.5  | 214.8  | 214.8  | 212.3  |
| 85°   | 276.2  | 271.1  | 244.2  | 222.5  | 203.3  | 182.9  | 167.5  | 166.2  | 171.3  | 171.3  | 167.5  |
| 87.5° | 159.8  | 161.1  | 138.1  | 129.1  | 134.3  | 115.1  | 104.9  | 106.1  | 118.9  | 117.6  | 115.1  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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| 0°    | 2603.4 | 2603.4 | 2603.4 | 2603.4 | 2603.4 |
| 2.5°  | 2678.9 | 2682.7 | 2681.4 | 2685.2 | 2681.4 |
| 5°    | 2728.7 | 2727.4 | 2726.2 | 2731.3 | 2724.9 |
| 7.5°  | 2721.1 | 2722.3 | 2722.3 | 2722.3 | 2721.1 |
| 10°   | 2701.9 | 2707.0 | 2709.5 | 2714.7 | 2713.4 |
| 12.5° | 2695.5 | 2703.2 | 2710.8 | 2718.5 | 2719.8 |
| 15°   | 2696.8 | 2701.9 | 2705.7 | 2709.5 | 2710.8 |
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| 27.5° | 2325.9 | 2286.3 | 2251.8 | 2232.6 | 2227.5 |
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| 32.5° | 2068.9 | 2040.8 | 2002.4 | 1989.6 | 1988.4 |
| 35°   | 1855.4 | 1833.6 | 1806.8 | 1801.7 | 1795.3 |
| 37.5° | 1613.7 | 1606.0 | 1593.2 | 1577.9 | 1575.3 |
| 40°   | 1355.4 | 1360.5 | 1356.7 | 1347.7 | 1333.7 |
| 42.5° | 1106.1 | 1115.0 | 1116.3 | 1122.7 | 1129.1 |
| 45°   | 881.0  | 888.7  | 888.7  | 895.1  | 902.8  |
| 47.5° | 676.4  | 671.3  | 675.1  | 681.5  | 685.4  |
| 50°   | 511.5  | 507.6  | 501.2  | 496.1  | 491.0  |
| 52.5° | 411.7  | 404.1  | 386.2  | 381.0  | 375.9  |
| 55°   | 363.1  | 349.1  | 336.3  | 331.2  | 331.2  |
| 57.5° | 349.1  | 331.2  | 317.1  | 310.7  | 308.2  |
| 60°   | 351.6  | 326.1  | 308.2  | 297.9  | 294.1  |
| 62.5° | 363.1  | 327.3  | 303.0  | 291.5  | 287.7  |
| 65°   | 361.9  | 324.8  | 301.8  | 289.0  | 285.1  |
| 66°   | 355.5  | 321.0  | 299.2  | 287.7  | 285.1  |
| 67.5° | 345.2  | 315.8  | 296.7  | 286.4  | 282.6  |
| 70°   | 324.8  | 305.6  | 291.5  | 282.6  | 278.8  |
| 72.5° | 308.2  | 295.4  | 282.6  | 272.4  | 269.8  |
| 75°   | 292.8  | 280.0  | 268.5  | 263.4  | 259.6  |
| 77.5° | 269.8  | 258.3  | 251.9  | 246.8  | 244.2  |
| 80°   | 239.1  | 231.4  | 223.8  | 218.7  | 214.8  |
| 82.5° | 208.4  | 198.2  | 190.5  | 186.7  | 184.1  |
| 85°   | 170.1  | 163.7  | 152.2  | 144.5  | 143.2  |
| 87.5° | 113.8  | 107.4  | 103.6  | 97.2   | 90.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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