

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: P158679

Luminaire Tested: **VST-E06-LED-E-U-SL4-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158679  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33714)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VST-E06-LED-E-U-SL4-7030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (126) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15897.4 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.5  
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

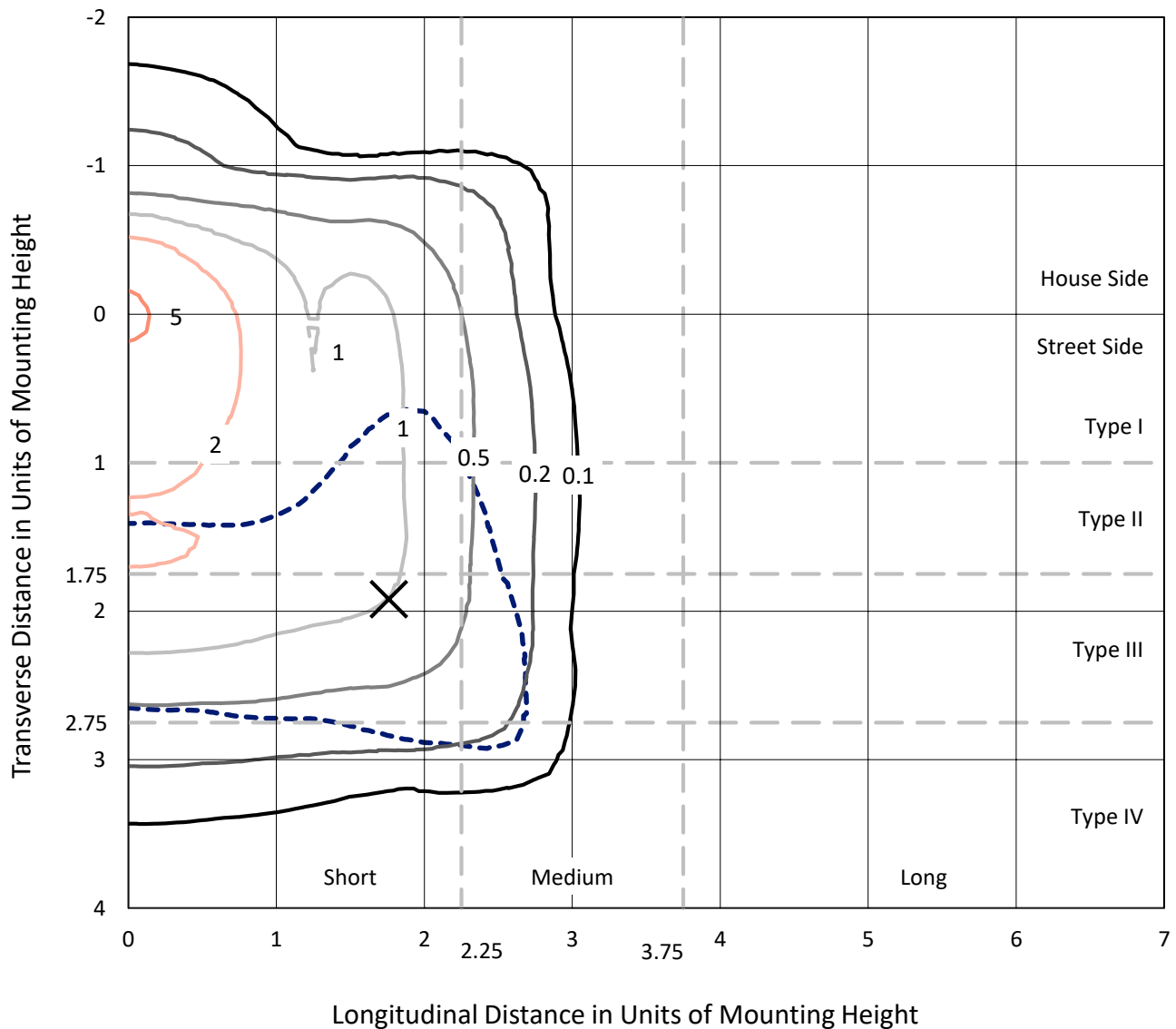


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

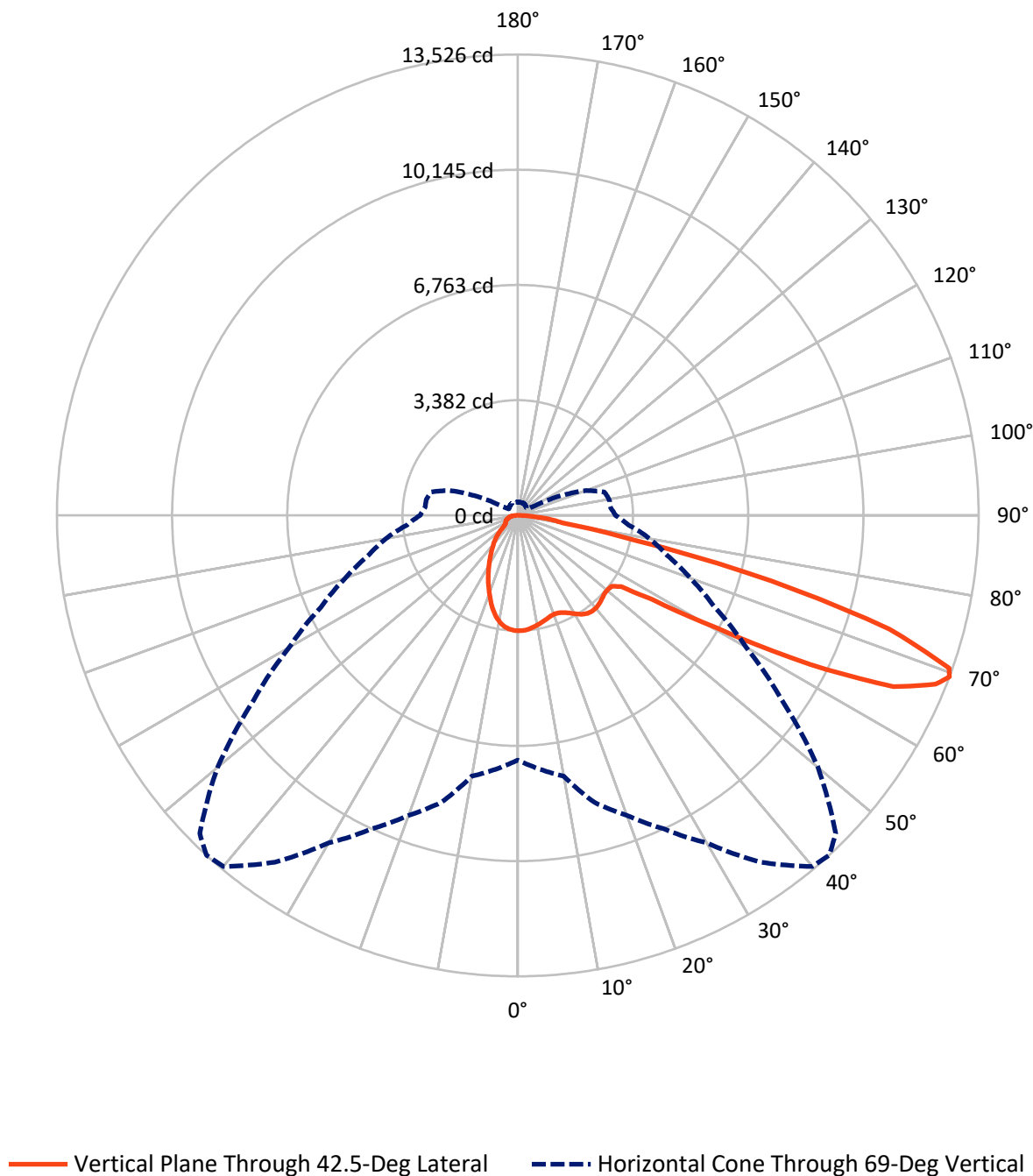


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
Type IV - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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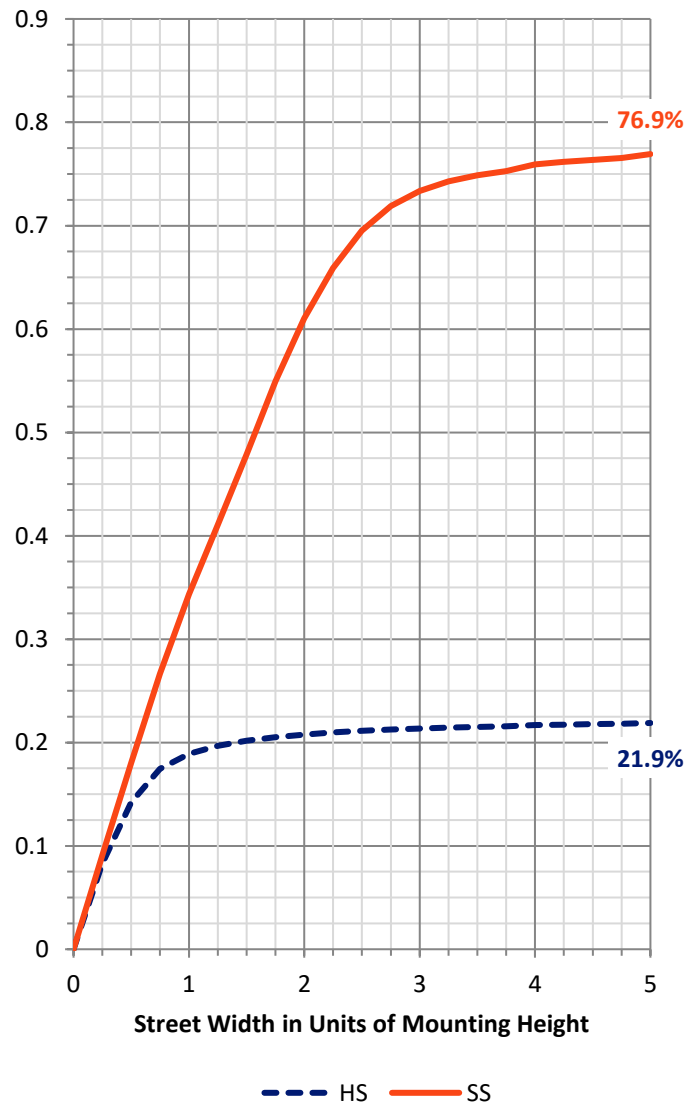
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3534.2   | 0.0    | 3534.2  |
|                    | % Fixture | 22.2     | 0.0    | 22.2    |
| <b>Street Side</b> | Lumens    | 12363.2  | 0.0    | 12363.2 |
|                    | % Fixture | 77.8     | 0.0    | 77.8    |
| <b>Total</b>       | Lumens    | 15897.4  | 0.0    | 15897.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 315.2   | 2.0       |
| 10°-20°   | 849.4   | 5.3       |
| 20°-30°   | 1238.6  | 7.8       |
| 30°-40°   | 1579.0  | 9.9       |
| 40°-50°   | 1837.2  | 11.6      |
| 50°-60°   | 2795.2  | 17.6      |
| 60°-70°   | 4937.7  | 31.1      |
| 70°-80°   | 2037.6  | 12.8      |
| 80°-90°   | 307.7   | 1.9       |
| 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°    | 15897.4 | 100.0     |
| 0°-180°   | 15897.4 | 100.0     |

**Coefficient of Utilization**



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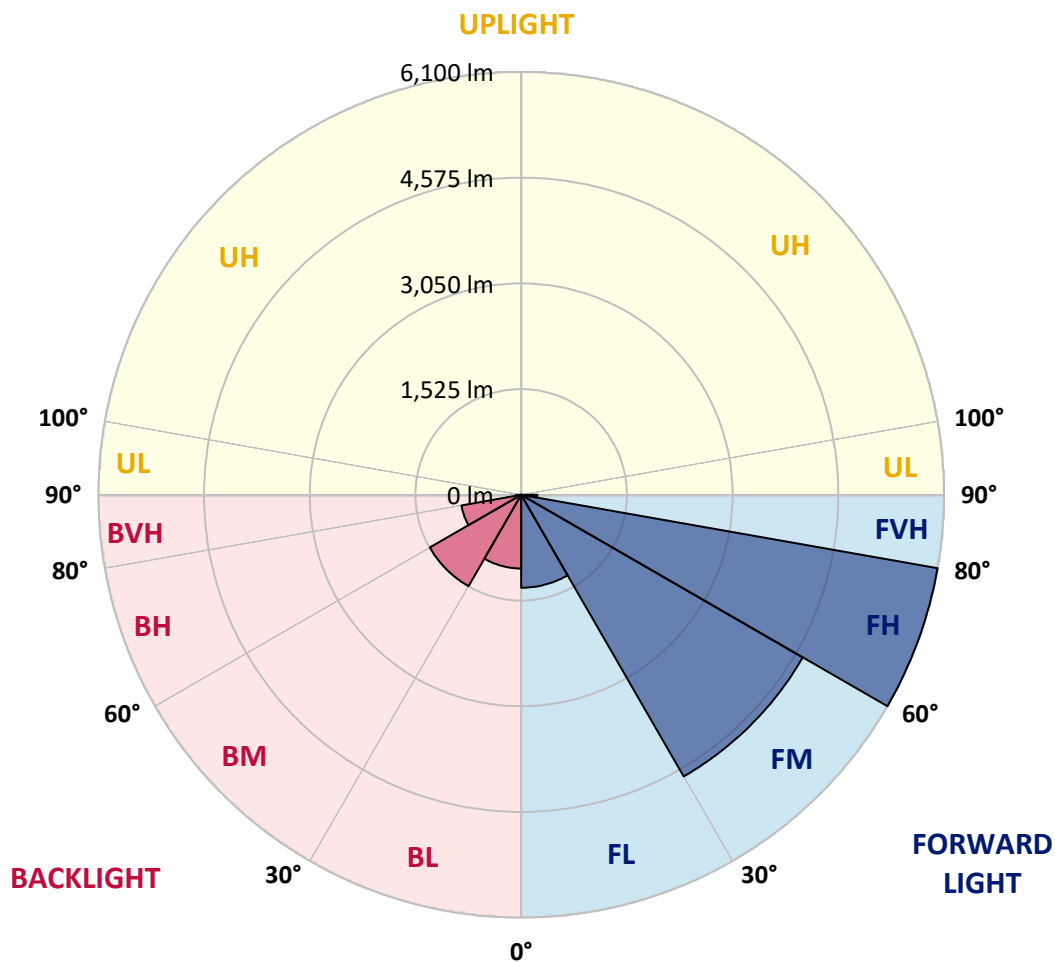
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1340.5 | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 4690.1 | 29.5      |                         |      |         |
| FH   | (60°-80°)   | 6099.8 | 38.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 232.7  | 1.5       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1062.6 | 6.7       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1521.2 | 9.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 875.4  | 5.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 75.0   | 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°     | 42.5°   | 45°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3385.6  | 3385.6  | 3385.6  | 3385.6  | 3385.6  | 3385.6  | 3385.6  | 3385.6  | 3385.6  | 3385.6  | 3385.6  |
| 2.5°  | 3374.6  | 3386.7  | 3382.3  | 3382.3  | 3385.6  | 3380.1  | 3380.1  | 3382.3  | 3376.8  | 3380.1  | 3379.0  |
| 5°    | 3362.6  | 3369.2  | 3367.0  | 3367.0  | 3367.0  | 3362.6  | 3360.4  | 3359.3  | 3351.6  | 3351.6  | 3348.3  |
| 7.5°  | 3336.3  | 3338.5  | 3341.8  | 3337.4  | 3336.3  | 3335.2  | 3327.5  | 3323.1  | 3314.4  | 3306.7  | 3308.9  |
| 10°   | 3301.2  | 3300.1  | 3305.6  | 3302.3  | 3297.9  | 3294.6  | 3288.1  | 3280.4  | 3270.5  | 3260.7  | 3259.6  |
| 12.5° | 3261.8  | 3260.7  | 3265.0  | 3262.9  | 3259.6  | 3253.0  | 3247.5  | 3234.4  | 3219.0  | 3207.0  | 3205.9  |
| 15°   | 3236.5  | 3233.3  | 3237.6  | 3233.3  | 3227.8  | 3221.2  | 3211.3  | 3194.9  | 3167.5  | 3155.4  | 3145.6  |
| 17.5° | 3260.7  | 3255.2  | 3257.4  | 3251.9  | 3244.2  | 3226.7  | 3203.7  | 3168.6  | 3129.1  | 3108.3  | 3093.0  |
| 20°   | 3345.1  | 3335.2  | 3337.4  | 3331.9  | 3314.4  | 3291.3  | 3247.5  | 3186.1  | 3119.3  | 3085.3  | 3061.2  |
| 22.5° | 3465.6  | 3457.9  | 3461.2  | 3455.8  | 3438.2  | 3403.1  | 3337.4  | 3249.7  | 3154.3  | 3105.0  | 3066.7  |
| 25°   | 3648.7  | 3655.2  | 3657.4  | 3632.2  | 3622.3  | 3557.7  | 3466.7  | 3345.1  | 3217.9  | 3159.8  | 3107.2  |
| 27.5° | 3854.7  | 3854.7  | 3864.6  | 3854.7  | 3835.0  | 3759.4  | 3631.1  | 3484.2  | 3320.9  | 3242.0  | 3178.5  |
| 30°   | 4055.3  | 4053.1  | 4071.7  | 4069.5  | 4037.7  | 3952.2  | 3806.5  | 3627.8  | 3441.5  | 3352.7  | 3271.6  |
| 32.5° | 4267.9  | 4274.5  | 4286.5  | 4282.2  | 4240.5  | 4122.1  | 3946.8  | 3752.8  | 3556.6  | 3459.0  | 3368.1  |
| 35°   | 4498.1  | 4501.4  | 4505.7  | 4503.5  | 4419.2  | 4270.1  | 4049.8  | 3832.8  | 3628.9  | 3532.5  | 3438.2  |
| 37.5° | 4728.2  | 4724.9  | 4719.5  | 4672.3  | 4575.9  | 4368.7  | 4112.3  | 3878.8  | 3665.1  | 3561.0  | 3463.4  |
| 40°   | 4934.3  | 4915.7  | 4898.1  | 4824.7  | 4676.7  | 4424.6  | 4136.4  | 3889.8  | 3661.8  | 3554.4  | 3459.0  |
| 42.5° | 5047.2  | 5026.3  | 4990.2  | 4898.1  | 4718.4  | 4430.1  | 4119.9  | 3856.9  | 3627.8  | 3521.5  | 3427.3  |
| 45°   | 5068.0  | 5052.7  | 5017.6  | 4914.6  | 4708.5  | 4395.0  | 4069.5  | 3803.2  | 3577.4  | 3471.1  | 3382.3  |
| 47.5° | 5018.7  | 5006.6  | 4972.6  | 4870.7  | 4665.8  | 4342.4  | 4011.4  | 3746.2  | 3528.1  | 3428.4  | 3342.9  |
| 50°   | 4943.1  | 4932.1  | 4905.8  | 4812.6  | 4617.5  | 4306.3  | 3981.8  | 3716.6  | 3511.6  | 3420.7  | 3341.8  |
| 52.5° | 5065.8  | 5074.6  | 4997.9  | 4895.9  | 4669.0  | 4338.0  | 4014.7  | 3747.3  | 3541.2  | 3451.4  | 3369.2  |
| 55°   | 6974.0  | 6961.9  | 6500.5  | 6113.6  | 5422.0  | 4795.1  | 4327.1  | 3990.6  | 3770.3  | 3680.4  | 3603.7  |
| 57.5° | 9061.9  | 9020.2  | 8830.6  | 8468.9  | 7725.8  | 6733.9  | 5831.9  | 5064.7  | 4762.2  | 4632.9  | 4641.6  |
| 60°   | 9743.6  | 9759.0  | 9718.4  | 9590.2  | 9323.8  | 8807.6  | 8121.5  | 7545.0  | 6977.3  | 6700.0  | 6731.8  |
| 62.5° | 10121.7 | 10149.1 | 10184.2 | 10155.7 | 10069.1 | 9949.7  | 9863.1  | 9915.7  | 9836.8  | 9637.3  | 9478.4  |
| 65°   | 10174.4 | 10230.3 | 10346.4 | 10438.5 | 10483.4 | 10596.3 | 10861.6 | 11497.3 | 12078.1 | 12116.5 | 11837.0 |
| 67.5° | 9133.1  | 9287.7  | 9539.8  | 9966.1  | 10331.1 | 10732.2 | 11372.3 | 12339.0 | 13196.1 | 13224.6 | 12963.7 |
| 69°   | 7181.1  | 7478.1  | 7773.0  | 8725.4  | 9366.6  | 10152.4 | 11099.4 | 12420.1 | 13447.1 | 13526.0 | 13197.2 |
| 70°   | 5754.1  | 5930.6  | 6184.8  | 7141.7  | 8099.6  | 9101.4  | 10473.6 | 12152.7 | 13275.0 | 13433.9 | 13071.1 |
| 72.5° | 3454.7  | 3522.6  | 3610.3  | 3953.3  | 4446.6  | 5338.7  | 7158.1  | 9908.0  | 11198.0 | 11410.7 | 10949.2 |
| 75°   | 2233.7  | 2229.3  | 2237.0  | 2332.3  | 2360.8  | 2531.8  | 3105.0  | 5097.6  | 7305.0  | 7690.8  | 7138.4  |
| 77.5° | 1682.4  | 1697.7  | 1673.6  | 1682.4  | 1674.7  | 1720.8  | 1738.3  | 1824.9  | 2883.6  | 3552.2  | 3176.3  |
| 80°   | 1485.1  | 1492.8  | 1493.9  | 1489.5  | 1435.8  | 1431.4  | 1459.9  | 1410.6  | 1310.8  | 1330.6  | 1274.7  |
| 82.5° | 847.2   | 846.1   | 856.0   | 930.5   | 961.2   | 1062.0  | 1103.7  | 1126.7  | 1040.1  | 975.5   | 882.3   |
| 85°   | 549.1   | 553.5   | 564.5   | 587.5   | 564.5   | 573.2   | 563.4   | 583.1   | 534.9   | 496.5   | 443.9   |
| 87.5° | 224.7   | 224.7   | 238.9   | 259.8   | 242.2   | 237.8   | 203.9   | 201.7   | 171.0   | 154.5   | 120.6   |
| 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°    | 3385.6  | 3385.6 | 3385.6 | 3385.6 | 3385.6 | 3385.6 | 3385.6 | 3385.6 | 3385.6 | 3385.6 | 3385.6 |
| 2.5°  | 3372.5  | 3379.0 | 3375.7 | 3380.1 | 3376.8 | 3376.8 | 3372.5 | 3371.4 | 3374.6 | 3370.3 | 3371.4 |
| 5°    | 3342.9  | 3344.0 | 3338.5 | 3340.7 | 3334.1 | 3331.9 | 3328.6 | 3319.8 | 3325.3 | 3319.8 | 3322.0 |
| 7.5°  | 3300.1  | 3296.8 | 3289.2 | 3278.2 | 3270.5 | 3267.2 | 3260.7 | 3248.6 | 3250.8 | 3240.9 | 3246.4 |
| 10°   | 3245.3  | 3234.4 | 3221.2 | 3204.8 | 3193.8 | 3183.9 | 3169.7 | 3155.4 | 3147.8 | 3139.0 | 3137.9 |
| 12.5° | 3183.9  | 3170.8 | 3153.3 | 3128.0 | 3103.9 | 3087.5 | 3065.6 | 3040.4 | 3032.7 | 3018.4 | 3010.8 |
| 15°   | 3117.1  | 3096.3 | 3075.4 | 3046.9 | 3020.6 | 2995.4 | 2965.8 | 2934.0 | 2913.2 | 2891.3 | 2874.9 |
| 17.5° | 3056.8  | 3032.7 | 3005.3 | 2977.9 | 2949.4 | 2918.7 | 2881.4 | 2842.0 | 2811.3 | 2770.7 | 2737.9 |
| 20°   | 3009.7  | 2979.0 | 2951.6 | 2923.1 | 2891.3 | 2854.0 | 2809.1 | 2758.7 | 2707.2 | 2662.2 | 2623.9 |
| 22.5° | 2991.0  | 2942.8 | 2909.9 | 2881.4 | 2849.7 | 2805.8 | 2751.0 | 2691.8 | 2629.4 | 2566.9 | 2516.5 |
| 25°   | 3006.4  | 2935.1 | 2883.6 | 2849.7 | 2822.3 | 2777.3 | 2715.9 | 2643.6 | 2571.3 | 2496.7 | 2428.8 |
| 27.5° | 3051.3  | 2960.4 | 2885.8 | 2832.1 | 2800.3 | 2755.4 | 2690.7 | 2614.0 | 2528.5 | 2445.2 | 2361.9 |
| 30°   | 3121.5  | 3003.1 | 2908.8 | 2833.2 | 2783.9 | 2732.4 | 2664.4 | 2575.6 | 2489.1 | 2393.7 | 2302.7 |
| 32.5° | 3189.4  | 3048.0 | 2935.1 | 2837.6 | 2762.0 | 2695.1 | 2619.5 | 2531.8 | 2438.6 | 2338.9 | 2244.6 |
| 35°   | 3237.6  | 3077.6 | 2945.0 | 2827.7 | 2728.0 | 2644.7 | 2563.6 | 2475.9 | 2384.9 | 2283.0 | 2186.6 |
| 37.5° | 3260.7  | 3094.1 | 2946.1 | 2801.4 | 2683.1 | 2591.0 | 2504.4 | 2417.8 | 2332.3 | 2235.9 | 2144.9 |
| 40°   | 3259.6  | 3093.0 | 2930.8 | 2767.5 | 2629.4 | 2531.8 | 2446.3 | 2361.9 | 2281.9 | 2197.5 | 2115.3 |
| 42.5° | 3235.5  | 3075.4 | 2908.8 | 2734.6 | 2591.0 | 2482.5 | 2393.7 | 2312.6 | 2244.6 | 2170.1 | 2101.1 |
| 45°   | 3198.2  | 3045.8 | 2885.8 | 2719.2 | 2580.0 | 2471.5 | 2377.3 | 2298.4 | 2238.1 | 2170.1 | 2110.9 |
| 47.5° | 3169.7  | 3029.4 | 2889.1 | 2746.6 | 2614.0 | 2501.1 | 2401.4 | 2314.8 | 2263.3 | 2208.5 | 2166.8 |
| 50°   | 3174.1  | 3037.1 | 2900.1 | 2763.1 | 2638.1 | 2524.1 | 2427.7 | 2348.8 | 2311.5 | 2297.3 | 2287.4 |
| 52.5° | 3197.1  | 3049.1 | 2933.0 | 2850.7 | 2808.0 | 2722.5 | 2665.5 | 2616.2 | 2643.6 | 2589.9 | 2526.3 |
| 55°   | 3490.8  | 3442.6 | 3555.5 | 3661.8 | 3796.6 | 3847.0 | 3798.8 | 3790.0 | 3833.9 | 3651.9 | 3234.4 |
| 57.5° | 4704.1  | 4829.1 | 5003.3 | 5095.4 | 5207.2 | 5177.6 | 5065.8 | 4972.6 | 4863.0 | 4650.4 | 4129.8 |
| 60°   | 6767.9  | 6673.7 | 6594.8 | 6372.3 | 6190.3 | 5977.7 | 5741.0 | 5538.2 | 5344.2 | 5038.4 | 4475.1 |
| 62.5° | 8894.2  | 8239.9 | 7693.0 | 7164.7 | 6739.4 | 6386.5 | 6043.5 | 5738.8 | 5445.0 | 5018.7 | 4412.6 |
| 65°   | 10733.3 | 9355.6 | 8328.7 | 7553.8 | 6932.3 | 6396.4 | 5955.8 | 5534.9 | 5161.2 | 4661.4 | 4061.9 |
| 67.5° | 11559.7 | 9833.5 | 8339.6 | 7229.4 | 6369.0 | 5641.2 | 5071.3 | 4435.6 | 4016.9 | 3696.9 | 3359.3 |
| 69°   | 11498.4 | 9468.5 | 7744.5 | 6377.7 | 5389.1 | 4540.8 | 3929.2 | 3266.1 | 2865.0 | 2729.1 | 2721.4 |
| 70°   | 11206.8 | 8850.4 | 7049.6 | 5686.2 | 4555.1 | 3712.2 | 3125.9 | 2530.7 | 2157.0 | 2063.8 | 2229.3 |
| 72.5° | 9149.6  | 6253.9 | 4418.1 | 3373.6 | 2594.3 | 2050.7 | 1672.5 | 1327.3 | 1059.9 | 918.5  | 949.2  |
| 75°   | 5167.7  | 2895.7 | 1872.0 | 1415.0 | 1195.8 | 988.6  | 848.3  | 723.4  | 654.3  | 531.6  | 420.9  |
| 77.5° | 1878.6  | 1242.9 | 988.6  | 854.9  | 606.1  | 417.6  | 349.6  | 305.8  | 277.3  | 277.3  | 264.1  |
| 80°   | 1188.1  | 936.0  | 653.2  | 447.2  | 331.0  | 288.3  | 252.1  | 221.4  | 203.9  | 199.5  | 203.9  |
| 82.5° | 742.0   | 573.2  | 366.1  | 280.6  | 235.6  | 211.5  | 184.1  | 161.1  | 146.9  | 143.6  | 150.2  |
| 85°   | 366.1   | 283.9  | 222.5  | 198.4  | 186.3  | 173.2  | 152.3  | 130.4  | 126.0  | 134.8  | 157.8  |
| 87.5° | 109.6   | 97.5   | 80.0   | 83.3   | 87.7   | 85.5   | 68.0   | 59.2   | 55.9   | 73.4   | 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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**CANDELA DISTRIBUTION (continued):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3385.6 | 3385.6 | 3385.6 | 3385.6 | 3385.6 | 3385.6 | 3385.6 | 3385.6 | 3385.6 | 3385.6 | 3385.6 |
| 2.5°  | 3373.6 | 3372.5 | 3374.6 | 3371.4 | 3373.6 | 3374.6 | 3372.5 | 3382.3 | 3375.7 | 3376.8 | 3381.2 |
| 5°    | 3324.2 | 3322.0 | 3330.8 | 3328.6 | 3333.0 | 3337.4 | 3335.2 | 3349.4 | 3344.0 | 3348.3 | 3357.1 |
| 7.5°  | 3242.0 | 3246.4 | 3247.5 | 3247.5 | 3256.3 | 3270.5 | 3273.8 | 3282.6 | 3282.6 | 3294.6 | 3303.4 |
| 10°   | 3132.4 | 3133.5 | 3140.1 | 3139.0 | 3150.0 | 3165.3 | 3167.5 | 3182.8 | 3188.3 | 3208.1 | 3220.1 |
| 12.5° | 3005.3 | 2999.8 | 2998.7 | 2997.6 | 3011.9 | 3028.3 | 3030.5 | 3056.8 | 3067.8 | 3085.3 | 3105.0 |
| 15°   | 2862.8 | 2848.6 | 2844.2 | 2852.9 | 2849.7 | 2859.5 | 2869.4 | 2883.6 | 2899.0 | 2934.0 | 2951.6 |
| 17.5° | 2723.6 | 2695.1 | 2687.4 | 2677.6 | 2667.7 | 2667.7 | 2672.1 | 2689.6 | 2721.4 | 2740.1 | 2779.5 |
| 20°   | 2581.1 | 2547.2 | 2519.8 | 2493.4 | 2470.4 | 2461.7 | 2462.8 | 2484.7 | 2507.7 | 2538.4 | 2575.6 |
| 22.5° | 2461.7 | 2410.1 | 2363.0 | 2327.9 | 2280.8 | 2279.7 | 2273.1 | 2279.7 | 2304.9 | 2312.6 | 2333.4 |
| 25°   | 2358.6 | 2289.6 | 2226.0 | 2169.0 | 2123.0 | 2098.9 | 2092.3 | 2090.1 | 2078.1 | 2074.8 | 2059.4 |
| 27.5° | 2278.6 | 2195.3 | 2113.1 | 2044.1 | 1987.1 | 1954.2 | 1912.6 | 1883.0 | 1840.2 | 1829.3 | 1801.9 |
| 30°   | 2212.9 | 2123.0 | 2033.1 | 1943.2 | 1878.6 | 1819.4 | 1749.2 | 1697.7 | 1632.0 | 1589.2 | 1552.0 |
| 32.5° | 2149.3 | 2058.3 | 1967.4 | 1878.6 | 1778.8 | 1686.8 | 1594.7 | 1514.7 | 1441.3 | 1375.5 | 1320.7 |
| 35°   | 2096.7 | 2010.1 | 1918.0 | 1810.6 | 1683.5 | 1550.9 | 1440.2 | 1349.2 | 1248.4 | 1179.3 | 1110.3 |
| 37.5° | 2062.7 | 1983.8 | 1891.7 | 1743.8 | 1580.5 | 1438.0 | 1311.9 | 1201.2 | 1098.2 | 994.1  | 916.3  |
| 40°   | 2047.4 | 1978.3 | 1863.2 | 1682.4 | 1490.6 | 1332.8 | 1193.6 | 1070.8 | 939.3  | 822.0  | 738.7  |
| 42.5° | 2046.3 | 1976.1 | 1823.8 | 1614.4 | 1416.1 | 1244.0 | 1089.4 | 942.6  | 796.8  | 676.2  | 594.0  |
| 45°   | 2066.0 | 1972.8 | 1782.1 | 1557.4 | 1350.3 | 1170.5 | 986.4  | 807.8  | 644.5  | 554.6  | 510.7  |
| 47.5° | 2118.6 | 1978.3 | 1748.2 | 1504.8 | 1287.8 | 1081.8 | 868.0  | 659.8  | 525.0  | 483.3  | 483.3  |
| 50°   | 2212.9 | 2010.1 | 1739.4 | 1467.6 | 1225.4 | 978.7  | 723.4  | 532.7  | 464.7  | 464.7  | 477.9  |
| 52.5° | 2357.5 | 2077.0 | 1754.7 | 1441.3 | 1147.5 | 842.8  | 569.9  | 459.2  | 446.1  | 458.1  | 475.7  |
| 55°   | 2690.7 | 2195.3 | 1775.6 | 1396.3 | 1029.2 | 668.6  | 470.2  | 434.0  | 439.5  | 453.8  | 470.2  |
| 57.5° | 3302.3 | 2448.5 | 1797.5 | 1297.7 | 838.5  | 515.1  | 426.4  | 424.2  | 434.0  | 447.2  | 461.4  |
| 60°   | 3704.5 | 2770.7 | 1853.4 | 1148.6 | 634.6  | 425.3  | 404.4  | 417.6  | 429.6  | 440.6  | 451.6  |
| 62.5° | 3704.5 | 2861.7 | 1895.0 | 982.0  | 476.8  | 386.9  | 390.2  | 411.0  | 425.3  | 430.7  | 437.3  |
| 65°   | 3467.8 | 2695.1 | 1753.6 | 800.1  | 388.0  | 365.0  | 377.0  | 397.9  | 411.0  | 415.4  | 420.9  |
| 67.5° | 3030.5 | 2380.6 | 1477.4 | 602.8  | 346.3  | 346.3  | 361.7  | 377.0  | 388.0  | 396.8  | 405.5  |
| 69°   | 2634.8 | 2136.1 | 1301.0 | 510.7  | 329.9  | 332.1  | 347.4  | 360.6  | 373.7  | 384.7  | 395.7  |
| 70°   | 2349.9 | 1953.1 | 1178.2 | 463.6  | 320.0  | 321.1  | 336.5  | 350.7  | 362.8  | 374.8  | 388.0  |
| 72.5° | 1258.2 | 1349.2 | 895.4  | 380.3  | 294.8  | 298.1  | 312.4  | 325.5  | 336.5  | 348.5  | 360.6  |
| 75°   | 428.5  | 579.8  | 569.9  | 311.3  | 266.3  | 275.1  | 283.9  | 295.9  | 310.2  | 317.8  | 324.4  |
| 77.5° | 251.0  | 259.8  | 303.6  | 253.2  | 240.0  | 244.4  | 254.3  | 264.1  | 276.2  | 283.9  | 289.3  |
| 80°   | 210.4  | 209.3  | 210.4  | 206.1  | 209.3  | 219.2  | 225.8  | 238.9  | 249.9  | 252.1  | 251.0  |
| 82.5° | 171.0  | 179.7  | 180.8  | 178.7  | 188.5  | 196.2  | 201.7  | 209.3  | 208.2  | 210.4  | 214.8  |
| 85°   | 152.3  | 151.3  | 158.9  | 160.0  | 160.0  | 154.5  | 155.6  | 155.6  | 155.6  | 158.9  | 160.0  |
| 87.5° | 152.3  | 127.1  | 98.6   | 88.8   | 93.2   | 87.7   | 83.3   | 82.2   | 91.0   | 99.7   | 97.5   |
| 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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| 42.5° | 548.0  | 525.0  | 518.4  | 518.4  | 518.4  |
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| 47.5° | 489.9  | 496.5  | 504.2  | 510.7  | 512.9  |
| 50°   | 489.9  | 496.5  | 502.0  | 508.6  | 510.7  |
| 52.5° | 487.7  | 493.2  | 495.4  | 499.8  | 502.0  |
| 55°   | 481.2  | 484.4  | 484.4  | 486.6  | 488.8  |
| 57.5° | 470.2  | 472.4  | 469.1  | 471.3  | 476.8  |
| 60°   | 459.2  | 461.4  | 455.9  | 461.4  | 464.7  |
| 62.5° | 447.2  | 448.3  | 446.1  | 450.5  | 450.5  |
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| 75°   | 328.8  | 336.5  | 346.3  | 360.6  | 368.3  |
| 77.5° | 298.1  | 303.6  | 311.3  | 326.6  | 340.9  |
| 80°   | 257.6  | 260.9  | 261.9  | 267.4  | 266.3  |
| 82.5° | 209.3  | 206.1  | 203.9  | 201.7  | 200.6  |
| 85°   | 150.2  | 149.1  | 140.3  | 133.7  | 133.7  |
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