

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: P158671

Luminaire Tested: **VST-E05-LED-E-U-SL4-7050**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P158671  
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-E05-LED-E-U-SL4-7050  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (105) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 14883.3 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 127.3  
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



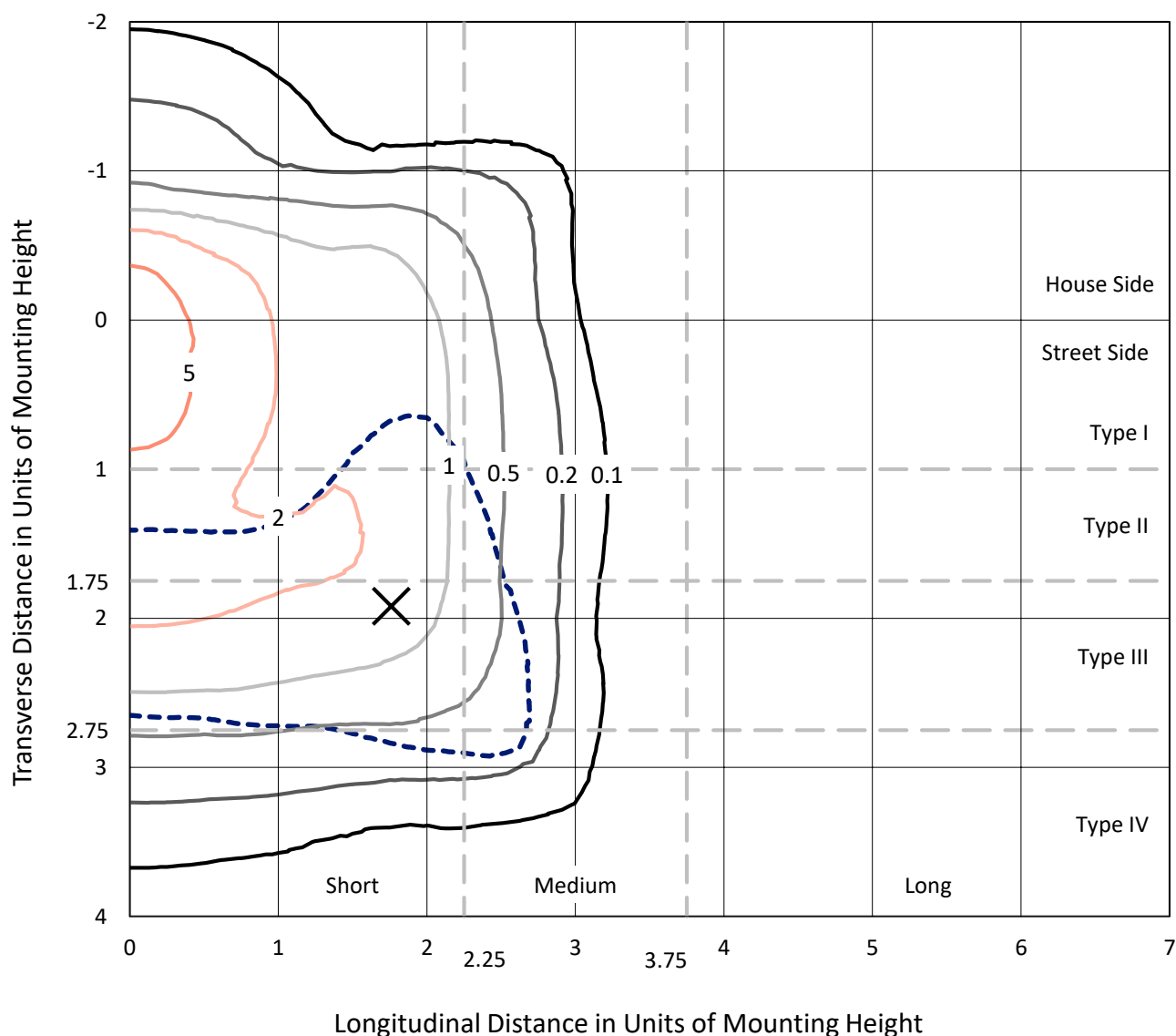
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

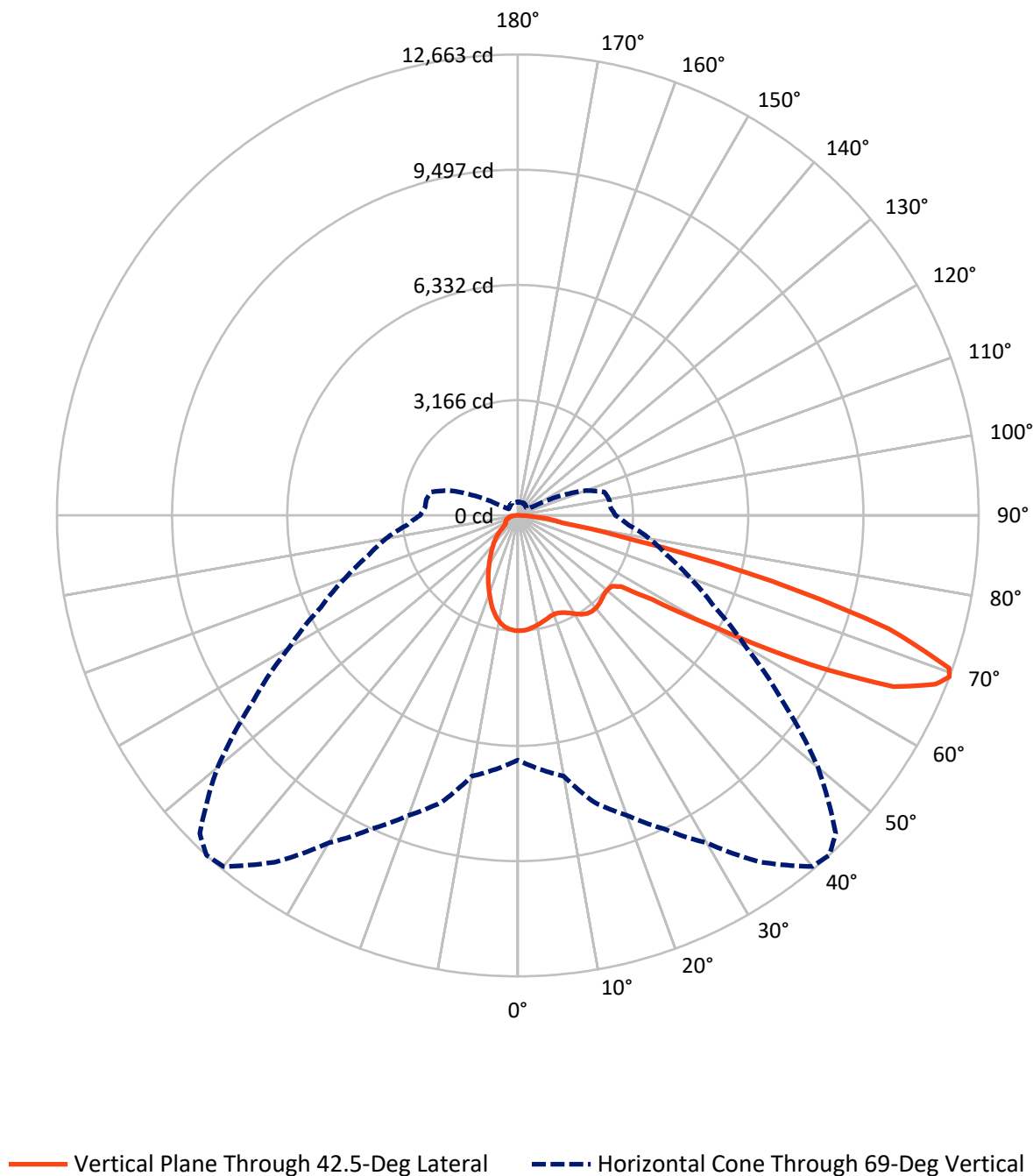


Based on 20 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3308.8   | 0.0    | 3308.8  |
|                    | % Fixture | 22.2     | 0.0    | 22.2    |
| <b>Street Side</b> | Lumens    | 11574.5  | 0.0    | 11574.5 |
|                    | % Fixture | 77.8     | 0.0    | 77.8    |
| <b>Total</b>       | Lumens    | 14883.3  | 0.0    | 14883.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 295.1   | 2.0       |
| 10°-20°   | 795.2   | 5.3       |
| 20°-30°   | 1159.6  | 7.8       |
| 30°-40°   | 1478.2  | 9.9       |
| 40°-50°   | 1720.0  | 11.6      |
| 50°-60°   | 2616.9  | 17.6      |
| 60°-70°   | 4622.7  | 31.1      |
| 70°-80°   | 1907.6  | 12.8      |
| 80°-90°   | 288.0   | 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°    | 14883.3 | 100.0     |
| 0°-180°   | 14883.3 | 100.0     |

**Coefficient of Utilization**



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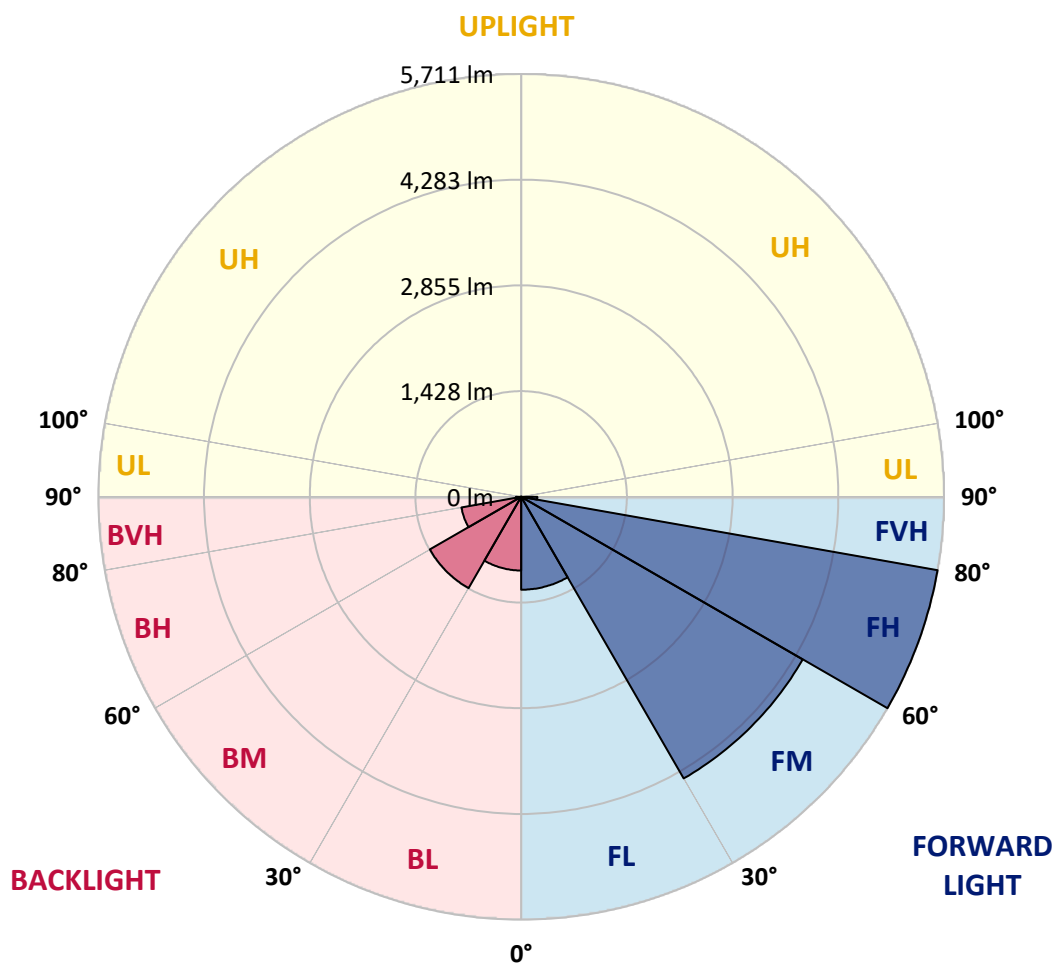
CATALOG NUMBER: VST-E05-LED-E-U-SL4-7050

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1255.0 | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 4391.0 | 29.5      |                         |      |         |
| FH   | (60°-80°)   | 5710.7 | 38.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 217.8  | 1.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 994.8  | 6.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1424.2 | 9.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 819.6  | 5.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 70.2   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-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°    | 3169.6 | 3169.6 | 3169.6 | 3169.6 | 3169.6 | 3169.6  | 3169.6  | 3169.6  | 3169.6  | 3169.6  | 3169.6  |
| 2.5°  | 3159.4 | 3170.7 | 3166.6 | 3166.6 | 3169.6 | 3164.5  | 3164.5  | 3166.6  | 3161.4  | 3164.5  | 3163.5  |
| 5°    | 3148.1 | 3154.2 | 3152.2 | 3152.2 | 3152.2 | 3148.1  | 3146.0  | 3145.0  | 3137.8  | 3137.8  | 3134.8  |
| 7.5°  | 3123.5 | 3125.5 | 3128.6 | 3124.5 | 3123.5 | 3122.4  | 3115.3  | 3111.2  | 3102.9  | 3095.8  | 3097.8  |
| 10°   | 3090.6 | 3089.6 | 3094.7 | 3091.7 | 3087.6 | 3084.5  | 3078.3  | 3071.1  | 3061.9  | 3052.7  | 3051.6  |
| 12.5° | 3053.7 | 3052.7 | 3056.8 | 3054.7 | 3051.6 | 3045.5  | 3040.4  | 3028.0  | 3013.7  | 3002.4  | 3001.4  |
| 15°   | 3030.1 | 3027.0 | 3031.1 | 3027.0 | 3021.9 | 3015.7  | 3006.5  | 2991.1  | 2965.4  | 2954.2  | 2944.9  |
| 17.5° | 3052.7 | 3047.5 | 3049.6 | 3044.5 | 3037.3 | 3020.9  | 2999.3  | 2966.5  | 2929.5  | 2910.0  | 2895.7  |
| 20°   | 3131.7 | 3122.4 | 3124.5 | 3119.4 | 3102.9 | 3081.4  | 3040.4  | 2982.9  | 2920.3  | 2888.5  | 2865.9  |
| 22.5° | 3244.5 | 3237.4 | 3240.4 | 3235.3 | 3218.9 | 3186.1  | 3124.5  | 3042.4  | 2953.1  | 2907.0  | 2871.0  |
| 25°   | 3415.9 | 3422.1 | 3424.1 | 3400.5 | 3391.3 | 3330.7  | 3245.6  | 3131.7  | 3012.6  | 2958.3  | 2909.0  |
| 27.5° | 3608.8 | 3608.8 | 3618.0 | 3608.8 | 3590.3 | 3519.5  | 3399.5  | 3262.0  | 3109.1  | 3035.2  | 2975.7  |
| 30°   | 3796.6 | 3794.5 | 3812.0 | 3809.9 | 3780.2 | 3700.1  | 3563.7  | 3396.4  | 3222.0  | 3138.9  | 3062.9  |
| 32.5° | 3995.7 | 4001.8 | 4013.1 | 4009.0 | 3970.0 | 3859.2  | 3695.0  | 3513.4  | 3329.7  | 3238.4  | 3153.2  |
| 35°   | 4211.1 | 4214.2 | 4218.3 | 4216.3 | 4137.3 | 3997.7  | 3791.5  | 3588.3  | 3397.4  | 3307.1  | 3218.9  |
| 37.5° | 4426.6 | 4423.5 | 4418.4 | 4374.3 | 4284.0 | 4090.1  | 3849.9  | 3631.4  | 3431.3  | 3333.8  | 3242.5  |
| 40°   | 4619.5 | 4602.1 | 4585.7 | 4516.9 | 4378.4 | 4142.4  | 3872.5  | 3641.6  | 3428.2  | 3327.7  | 3238.4  |
| 42.5° | 4725.2 | 4705.7 | 4671.9 | 4585.7 | 4417.4 | 4147.5  | 3857.1  | 3610.9  | 3396.4  | 3296.9  | 3208.6  |
| 45°   | 4744.7 | 4730.3 | 4697.5 | 4601.1 | 4408.1 | 4114.7  | 3809.9  | 3560.6  | 3349.2  | 3249.7  | 3166.6  |
| 47.5° | 4698.5 | 4687.2 | 4655.4 | 4560.0 | 4368.1 | 4065.4  | 3755.5  | 3507.2  | 3303.0  | 3209.7  | 3129.6  |
| 50°   | 4627.7 | 4617.5 | 4592.8 | 4505.6 | 4323.0 | 4031.6  | 3727.8  | 3479.5  | 3287.6  | 3202.5  | 3128.6  |
| 52.5° | 4742.7 | 4750.9 | 4679.0 | 4583.6 | 4371.2 | 4061.3  | 3758.6  | 3508.3  | 3315.3  | 3231.2  | 3154.2  |
| 55°   | 6529.1 | 6517.8 | 6085.8 | 5723.6 | 5076.1 | 4489.2  | 4051.1  | 3736.0  | 3529.8  | 3445.7  | 3373.8  |
| 57.5° | 8483.8 | 8444.8 | 8267.3 | 7928.7 | 7233.0 | 6304.4  | 5459.9  | 4741.6  | 4458.4  | 4337.3  | 4345.6  |
| 60°   | 9122.1 | 9136.4 | 9098.5 | 8978.4 | 8729.1 | 8245.8  | 7603.4  | 7063.7  | 6532.2  | 6272.6  | 6302.3  |
| 62.5° | 9476.1 | 9501.7 | 9534.6 | 9507.9 | 9426.8 | 9315.0  | 9233.9  | 9283.2  | 9209.3  | 9022.5  | 8873.8  |
| 65°   | 9525.3 | 9577.7 | 9686.4 | 9772.6 | 9814.7 | 9920.4  | 10168.7 | 10763.8 | 11307.7 | 11343.6 | 11081.9 |
| 67.5° | 8550.5 | 8695.2 | 8931.2 | 9330.4 | 9672.1 | 10047.6 | 10646.9 | 11551.9 | 12354.3 | 12381.0 | 12136.8 |
| 69°   | 6723.0 | 7001.1 | 7277.1 | 8168.8 | 8769.1 | 9504.8  | 10391.4 | 11627.8 | 12589.3 | 12663.2 | 12355.3 |
| 70°   | 5387.1 | 5552.3 | 5790.3 | 6686.1 | 7582.9 | 8520.8  | 9805.5  | 11377.5 | 12428.2 | 12577.0 | 12237.3 |
| 72.5° | 3234.3 | 3297.9 | 3380.0 | 3701.2 | 4162.9 | 4998.2  | 6701.5  | 9276.0  | 10483.7 | 10682.8 | 10250.8 |
| 75°   | 2091.2 | 2087.1 | 2094.3 | 2183.6 | 2210.2 | 2370.3  | 2907.0  | 4772.4  | 6839.0  | 7200.2  | 6683.0  |
| 77.5° | 1575.1 | 1589.4 | 1566.9 | 1575.1 | 1567.9 | 1611.0  | 1627.4  | 1708.5  | 2699.7  | 3325.6  | 2973.7  |
| 80°   | 1390.4 | 1397.6 | 1398.6 | 1394.5 | 1344.2 | 1340.1  | 1366.8  | 1320.6  | 1227.2  | 1245.7  | 1193.4  |
| 82.5° | 793.2  | 792.2  | 801.4  | 871.2  | 899.9  | 994.3   | 1033.3  | 1054.8  | 973.8   | 913.2   | 826.0   |
| 85°   | 514.1  | 518.2  | 528.4  | 550.0  | 528.4  | 536.7   | 527.4   | 545.9   | 500.7   | 464.8   | 415.6   |
| 87.5° | 210.4  | 210.4  | 223.7  | 243.2  | 226.8  | 222.7   | 190.9   | 188.8   | 160.1   | 144.7   | 112.9   |
| 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°    | 3169.6  | 3169.6 | 3169.6 | 3169.6 | 3169.6 | 3169.6 | 3169.6 | 3169.6 | 3169.6 | 3169.6 | 3169.6 |
| 2.5°  | 3157.3  | 3163.5 | 3160.4 | 3164.5 | 3161.4 | 3161.4 | 3157.3 | 3156.3 | 3159.4 | 3155.3 | 3156.3 |
| 5°    | 3129.6  | 3130.6 | 3125.5 | 3127.6 | 3121.4 | 3119.4 | 3116.3 | 3108.1 | 3113.2 | 3108.1 | 3110.1 |
| 7.5°  | 3089.6  | 3086.5 | 3079.3 | 3069.1 | 3061.9 | 3058.8 | 3052.7 | 3041.4 | 3043.4 | 3034.2 | 3039.3 |
| 10°   | 3038.3  | 3028.0 | 3015.7 | 3000.3 | 2990.1 | 2980.8 | 2967.5 | 2954.2 | 2947.0 | 2938.8 | 2937.7 |
| 12.5° | 2980.8  | 2968.5 | 2952.1 | 2928.5 | 2905.9 | 2890.5 | 2870.0 | 2846.4 | 2839.2 | 2825.9 | 2818.7 |
| 15°   | 2918.2  | 2898.7 | 2879.3 | 2852.6 | 2827.9 | 2804.3 | 2776.6 | 2746.9 | 2727.4 | 2706.9 | 2691.5 |
| 17.5° | 2861.8  | 2839.2 | 2813.6 | 2787.9 | 2761.2 | 2732.5 | 2697.6 | 2660.7 | 2632.0 | 2594.0 | 2563.2 |
| 20°   | 2817.7  | 2789.0 | 2763.3 | 2736.6 | 2706.9 | 2672.0 | 2629.9 | 2582.7 | 2534.5 | 2492.4 | 2456.5 |
| 22.5° | 2800.2  | 2755.1 | 2724.3 | 2697.6 | 2667.9 | 2626.8 | 2575.5 | 2520.1 | 2461.6 | 2403.1 | 2355.9 |
| 25°   | 2814.6  | 2747.9 | 2699.7 | 2667.9 | 2642.2 | 2600.2 | 2542.7 | 2475.0 | 2407.2 | 2337.5 | 2273.8 |
| 27.5° | 2856.7  | 2771.5 | 2701.7 | 2651.5 | 2621.7 | 2579.6 | 2519.1 | 2447.3 | 2367.2 | 2289.2 | 2211.3 |
| 30°   | 2922.3  | 2811.5 | 2723.3 | 2652.5 | 2606.3 | 2558.1 | 2494.5 | 2411.3 | 2330.3 | 2241.0 | 2155.8 |
| 32.5° | 2986.0  | 2853.6 | 2747.9 | 2656.6 | 2585.8 | 2523.2 | 2452.4 | 2370.3 | 2283.1 | 2189.7 | 2101.5 |
| 35°   | 3031.1  | 2881.3 | 2757.1 | 2647.4 | 2554.0 | 2476.0 | 2400.1 | 2318.0 | 2232.8 | 2137.4 | 2047.1 |
| 37.5° | 3052.7  | 2896.7 | 2758.2 | 2622.7 | 2511.9 | 2425.7 | 2344.7 | 2263.6 | 2183.6 | 2093.3 | 2008.1 |
| 40°   | 3051.6  | 2895.7 | 2743.8 | 2590.9 | 2461.6 | 2370.3 | 2290.3 | 2211.3 | 2136.4 | 2057.3 | 1980.4 |
| 42.5° | 3029.1  | 2879.3 | 2723.3 | 2560.1 | 2425.7 | 2324.1 | 2241.0 | 2165.1 | 2101.5 | 2031.7 | 1967.0 |
| 45°   | 2994.2  | 2851.5 | 2701.7 | 2545.8 | 2415.5 | 2313.9 | 2225.6 | 2151.7 | 2095.3 | 2031.7 | 1976.3 |
| 47.5° | 2967.5  | 2836.2 | 2704.8 | 2571.4 | 2447.3 | 2341.6 | 2248.2 | 2167.1 | 2118.9 | 2067.6 | 2028.6 |
| 50°   | 2971.6  | 2843.3 | 2715.1 | 2586.8 | 2469.8 | 2363.1 | 2272.8 | 2198.9 | 2164.1 | 2150.7 | 2141.5 |
| 52.5° | 2993.1  | 2854.6 | 2745.9 | 2668.9 | 2628.9 | 2548.8 | 2495.5 | 2449.3 | 2475.0 | 2424.7 | 2365.2 |
| 55°   | 3268.1  | 3223.0 | 3328.7 | 3428.2 | 3554.4 | 3601.6 | 3556.5 | 3548.3 | 3589.3 | 3419.0 | 3028.0 |
| 57.5° | 4404.0  | 4521.0 | 4684.2 | 4770.4 | 4875.0 | 4847.3 | 4742.7 | 4655.4 | 4552.8 | 4353.8 | 3866.4 |
| 60°   | 6336.2  | 6248.0 | 6174.1 | 5965.8 | 5795.4 | 5596.4 | 5374.7 | 5184.9 | 5003.3 | 4717.0 | 4189.6 |
| 62.5° | 8326.8  | 7714.3 | 7202.2 | 6707.7 | 6309.5 | 5979.1 | 5657.9 | 5372.7 | 5097.7 | 4698.5 | 4131.1 |
| 65°   | 10048.7 | 8758.8 | 7797.4 | 7071.9 | 6490.1 | 5988.4 | 5575.9 | 5181.8 | 4831.9 | 4364.0 | 3802.7 |
| 67.5° | 10822.3 | 9206.2 | 7807.6 | 6768.2 | 5962.7 | 5281.4 | 4747.8 | 4152.6 | 3760.7 | 3461.1 | 3145.0 |
| 69°   | 10764.9 | 8864.5 | 7250.5 | 5970.9 | 5045.4 | 4251.2 | 3678.6 | 3057.8 | 2682.2 | 2555.0 | 2547.8 |
| 70°   | 10491.9 | 8285.8 | 6599.9 | 5323.4 | 4264.5 | 3475.4 | 2926.5 | 2369.3 | 2019.4 | 1932.2 | 2087.1 |
| 72.5° | 8565.9  | 5855.0 | 4136.2 | 3158.4 | 2428.8 | 1919.8 | 1565.8 | 1242.6 | 992.2  | 859.9  | 888.6  |
| 75°   | 4838.1  | 2711.0 | 1752.6 | 1324.7 | 1119.5 | 925.5  | 794.2  | 677.2  | 612.6  | 497.7  | 394.0  |
| 77.5° | 1758.7  | 1163.6 | 925.5  | 800.4  | 567.4  | 390.9  | 327.3  | 286.3  | 259.6  | 259.6  | 247.3  |
| 80°   | 1112.3  | 876.3  | 611.6  | 418.7  | 309.9  | 269.9  | 236.0  | 207.3  | 190.9  | 186.8  | 190.9  |
| 82.5° | 694.7   | 536.7  | 342.7  | 262.7  | 220.6  | 198.0  | 172.4  | 150.8  | 137.5  | 134.4  | 140.6  |
| 85°   | 342.7   | 265.8  | 208.3  | 185.7  | 174.4  | 162.1  | 142.6  | 122.1  | 118.0  | 126.2  | 147.8  |
| 87.5° | 102.6   | 91.3   | 74.9   | 78.0   | 82.1   | 80.0   | 63.6   | 55.4   | 52.3   | 68.7   | 107.7  |
| 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°    | 3169.6 | 3169.6 | 3169.6 | 3169.6 | 3169.6 | 3169.6 | 3169.6 | 3169.6 | 3169.6 | 3169.6 | 3169.6 |
| 2.5°  | 3158.4 | 3157.3 | 3159.4 | 3156.3 | 3158.4 | 3159.4 | 3157.3 | 3166.6 | 3160.4 | 3161.4 | 3165.5 |
| 5°    | 3112.2 | 3110.1 | 3118.3 | 3116.3 | 3120.4 | 3124.5 | 3122.4 | 3135.8 | 3130.6 | 3134.8 | 3143.0 |
| 7.5°  | 3035.2 | 3039.3 | 3040.4 | 3040.4 | 3048.6 | 3061.9 | 3065.0 | 3073.2 | 3073.2 | 3084.5 | 3092.7 |
| 10°   | 2932.6 | 2933.6 | 2939.8 | 2938.8 | 2949.0 | 2963.4 | 2965.4 | 2979.8 | 2984.9 | 3003.4 | 3014.7 |
| 12.5° | 2813.6 | 2808.5 | 2807.4 | 2806.4 | 2819.7 | 2835.1 | 2837.2 | 2861.8 | 2872.1 | 2888.5 | 2907.0 |
| 15°   | 2680.2 | 2666.8 | 2662.7 | 2671.0 | 2667.9 | 2677.1 | 2686.3 | 2699.7 | 2714.0 | 2746.9 | 2763.3 |
| 17.5° | 2549.9 | 2523.2 | 2516.0 | 2506.8 | 2497.5 | 2497.5 | 2501.6 | 2518.1 | 2547.8 | 2565.3 | 2602.2 |
| 20°   | 2416.5 | 2384.7 | 2359.0 | 2334.4 | 2312.8 | 2304.6 | 2305.7 | 2326.2 | 2347.7 | 2376.5 | 2411.3 |
| 22.5° | 2304.6 | 2256.4 | 2212.3 | 2179.4 | 2135.3 | 2134.3 | 2128.1 | 2134.3 | 2157.9 | 2165.1 | 2184.6 |
| 25°   | 2208.2 | 2143.5 | 2084.0 | 2030.7 | 1987.6 | 1965.0 | 1958.8 | 1956.8 | 1945.5 | 1942.4 | 1928.1 |
| 27.5° | 2133.3 | 2055.3 | 1978.3 | 1913.7 | 1860.3 | 1829.5 | 1790.6 | 1762.8 | 1722.8 | 1712.6 | 1686.9 |
| 30°   | 2071.7 | 1987.6 | 1903.4 | 1819.3 | 1758.7 | 1703.3 | 1637.7 | 1589.4 | 1527.9 | 1487.9 | 1453.0 |
| 32.5° | 2012.2 | 1927.0 | 1841.9 | 1758.7 | 1665.4 | 1579.2 | 1493.0 | 1418.1 | 1349.3 | 1287.8 | 1236.5 |
| 35°   | 1962.9 | 1881.9 | 1795.7 | 1695.1 | 1576.1 | 1451.9 | 1348.3 | 1263.1 | 1168.7 | 1104.1 | 1039.4 |
| 37.5° | 1931.1 | 1857.3 | 1771.1 | 1632.5 | 1479.6 | 1346.3 | 1228.2 | 1124.6 | 1028.2 | 930.7  | 857.8  |
| 40°   | 1916.8 | 1852.1 | 1744.4 | 1575.1 | 1395.5 | 1247.7 | 1117.4 | 1002.5 | 879.4  | 769.6  | 691.6  |
| 42.5° | 1915.7 | 1850.1 | 1707.4 | 1511.5 | 1325.7 | 1164.6 | 1019.9 | 882.5  | 746.0  | 633.1  | 556.1  |
| 45°   | 1934.2 | 1847.0 | 1668.4 | 1458.1 | 1264.2 | 1095.9 | 923.5  | 756.2  | 603.4  | 519.2  | 478.2  |
| 47.5° | 1983.5 | 1852.1 | 1636.6 | 1408.8 | 1205.7 | 1012.8 | 812.7  | 617.7  | 491.5  | 452.5  | 452.5  |
| 50°   | 2071.7 | 1881.9 | 1628.4 | 1374.0 | 1147.2 | 916.3  | 677.2  | 498.7  | 435.1  | 435.1  | 447.4  |
| 52.5° | 2207.2 | 1944.5 | 1642.8 | 1349.3 | 1074.3 | 789.1  | 533.6  | 429.9  | 417.6  | 428.9  | 445.3  |
| 55°   | 2519.1 | 2055.3 | 1662.3 | 1307.3 | 963.5  | 625.9  | 440.2  | 406.3  | 411.5  | 424.8  | 440.2  |
| 57.5° | 3091.7 | 2292.3 | 1682.8 | 1214.9 | 785.0  | 482.3  | 399.2  | 397.1  | 406.3  | 418.7  | 432.0  |
| 60°   | 3468.2 | 2594.0 | 1735.1 | 1075.4 | 594.1  | 398.1  | 378.6  | 390.9  | 402.2  | 412.5  | 422.8  |
| 62.5° | 3468.2 | 2679.2 | 1774.1 | 919.4  | 446.4  | 362.2  | 365.3  | 384.8  | 398.1  | 403.3  | 409.4  |
| 65°   | 3246.6 | 2523.2 | 1641.8 | 749.1  | 363.2  | 341.7  | 353.0  | 372.5  | 384.8  | 388.9  | 394.0  |
| 67.5° | 2837.2 | 2228.7 | 1383.2 | 564.4  | 324.2  | 324.2  | 338.6  | 353.0  | 363.2  | 371.5  | 379.7  |
| 69°   | 2466.8 | 1999.9 | 1218.0 | 478.2  | 308.9  | 310.9  | 325.3  | 337.6  | 349.9  | 360.2  | 370.4  |
| 70°   | 2200.0 | 1828.5 | 1103.1 | 434.0  | 299.6  | 300.6  | 315.0  | 328.4  | 339.6  | 350.9  | 363.2  |
| 72.5° | 1178.0 | 1263.1 | 838.3  | 356.1  | 276.0  | 279.1  | 292.4  | 304.8  | 315.0  | 326.3  | 337.6  |
| 75°   | 401.2  | 542.8  | 533.6  | 291.4  | 249.3  | 257.6  | 265.8  | 277.0  | 290.4  | 297.6  | 303.7  |
| 77.5° | 235.0  | 243.2  | 284.2  | 237.0  | 224.7  | 228.8  | 238.1  | 247.3  | 258.6  | 265.8  | 270.9  |
| 80°   | 197.0  | 196.0  | 197.0  | 192.9  | 196.0  | 205.2  | 211.4  | 223.7  | 234.0  | 236.0  | 235.0  |
| 82.5° | 160.1  | 168.3  | 169.3  | 167.3  | 176.5  | 183.7  | 188.8  | 196.0  | 195.0  | 197.0  | 201.1  |
| 85°   | 142.6  | 141.6  | 148.8  | 149.8  | 149.8  | 144.7  | 145.7  | 145.7  | 145.7  | 148.8  | 149.8  |
| 87.5° | 142.6  | 119.0  | 92.3   | 83.1   | 87.2   | 82.1   | 78.0   | 77.0   | 85.2   | 93.4   | 91.3   |
| 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°    | 3169.6 | 3169.6 | 3169.6 | 3169.6 | 3169.6 |
| 2.5°  | 3167.6 | 3170.7 | 3168.6 | 3168.6 | 3170.7 |
| 5°    | 3146.0 | 3151.2 | 3149.1 | 3151.2 | 3151.2 |
| 7.5°  | 3096.8 | 3104.0 | 3109.1 | 3114.2 | 3111.2 |
| 10°   | 3026.0 | 3038.3 | 3046.5 | 3052.7 | 3049.6 |
| 12.5° | 2920.3 | 2931.6 | 2949.0 | 2959.3 | 2951.1 |
| 15°   | 2775.6 | 2807.4 | 2817.7 | 2832.1 | 2823.8 |
| 17.5° | 2624.8 | 2644.3 | 2656.6 | 2669.9 | 2678.1 |
| 20°   | 2423.7 | 2439.1 | 2455.5 | 2461.6 | 2452.4 |
| 22.5° | 2181.5 | 2189.7 | 2186.6 | 2195.9 | 2177.4 |
| 25°   | 1915.7 | 1920.9 | 1917.8 | 1926.0 | 1910.6 |
| 27.5° | 1664.3 | 1663.3 | 1664.3 | 1654.1 | 1643.8 |
| 30°   | 1422.2 | 1412.9 | 1408.8 | 1393.5 | 1390.4 |
| 32.5° | 1205.7 | 1173.9 | 1157.4 | 1134.9 | 1129.7 |
| 35°   | 989.2  | 944.0  | 914.3  | 888.6  | 877.3  |
| 37.5° | 795.2  | 740.8  | 706.0  | 683.4  | 680.3  |
| 40°   | 629.0  | 578.7  | 554.1  | 541.8  | 539.7  |
| 42.5° | 513.1  | 491.5  | 485.3  | 485.3  | 485.3  |
| 45°   | 467.9  | 466.9  | 472.0  | 476.1  | 477.1  |
| 47.5° | 458.7  | 464.8  | 472.0  | 478.2  | 480.2  |
| 50°   | 458.7  | 464.8  | 470.0  | 476.1  | 478.2  |
| 52.5° | 456.6  | 461.7  | 463.8  | 467.9  | 470.0  |
| 55°   | 450.5  | 453.5  | 453.5  | 455.6  | 457.6  |
| 57.5° | 440.2  | 442.3  | 439.2  | 441.2  | 446.4  |
| 60°   | 429.9  | 432.0  | 426.9  | 432.0  | 435.1  |
| 62.5° | 418.7  | 419.7  | 417.6  | 421.7  | 421.7  |
| 65°   | 400.2  | 398.1  | 401.2  | 404.3  | 405.3  |
| 67.5° | 381.7  | 376.6  | 379.7  | 380.7  | 382.7  |
| 69°   | 367.3  | 364.3  | 365.3  | 367.3  | 369.4  |
| 70°   | 357.1  | 355.0  | 357.1  | 360.2  | 363.2  |
| 72.5° | 331.4  | 332.5  | 339.6  | 345.8  | 352.0  |
| 75°   | 307.8  | 315.0  | 324.2  | 337.6  | 344.8  |
| 77.5° | 279.1  | 284.2  | 291.4  | 305.8  | 319.1  |
| 80°   | 241.1  | 244.2  | 245.2  | 250.4  | 249.3  |
| 82.5° | 196.0  | 192.9  | 190.9  | 188.8  | 187.8  |
| 85°   | 140.6  | 139.6  | 131.3  | 125.2  | 125.2  |
| 87.5° | 84.1   | 80.0   | 75.9   | 70.8   | 67.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)