

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: P159782

Luminaire Tested: **VST-E06-LED-E-U-T4-7060**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P159782  
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-E06-LED-E-U-T4-7060  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT  
Light Source: (126) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 18324.3 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-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

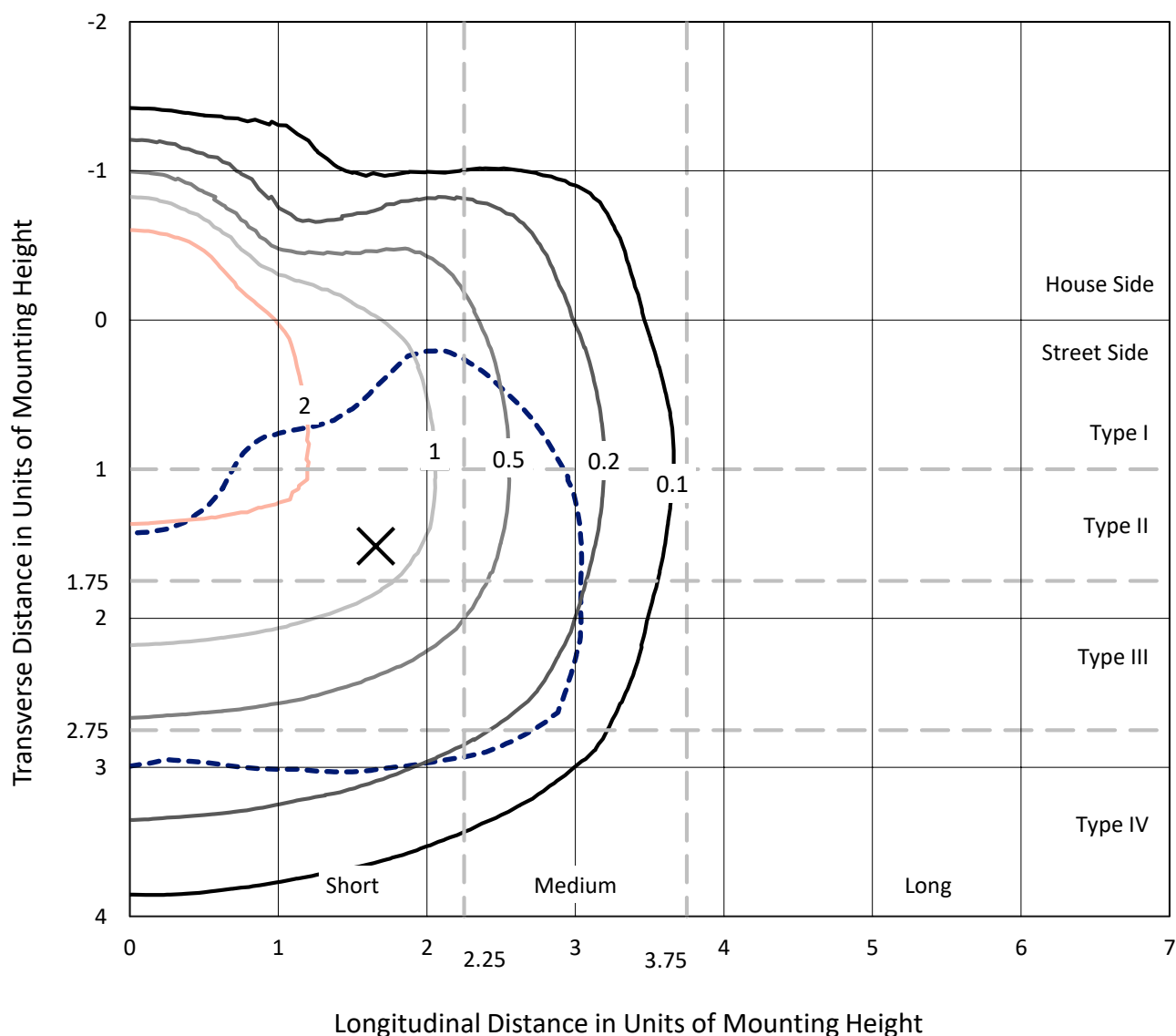


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

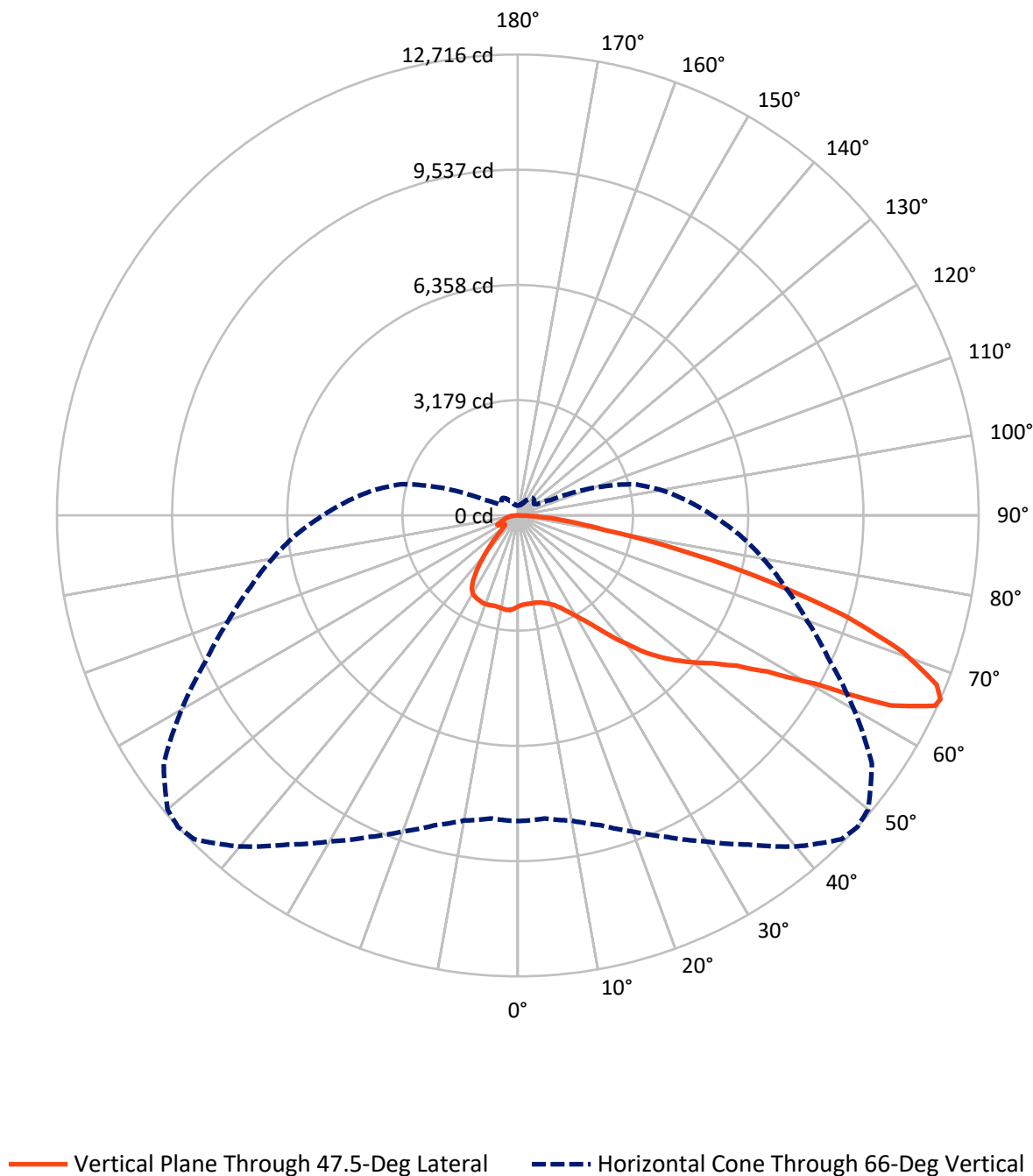


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3793.9   | 0.0    | 3793.9  |
|                    | % Fixture | 20.7     | 0.0    | 20.7    |
| <b>Street Side</b> | Lumens    | 14530.4  | 0.0    | 14530.4 |
|                    | % Fixture | 79.3     | 0.0    | 79.3    |
| <b>Total</b>       | Lumens    | 18324.3  | 0.0    | 18324.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 241.6   | 1.3       |
| 10°-20°   | 724.6   | 4.0       |
| 20°-30°   | 1236.3  | 6.7       |
| 30°-40°   | 1866.1  | 10.2      |
| 40°-50°   | 2425.4  | 13.2      |
| 50°-60°   | 3327.5  | 18.2      |
| 60°-70°   | 5118.7  | 27.9      |
| 70°-80°   | 2959.0  | 16.1      |
| 80°-90°   | 425.1   | 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°    | 18324.3 | 100.0     |
| 0°-180°   | 18324.3 | 100.0     |

**Coefficient of Utilization**



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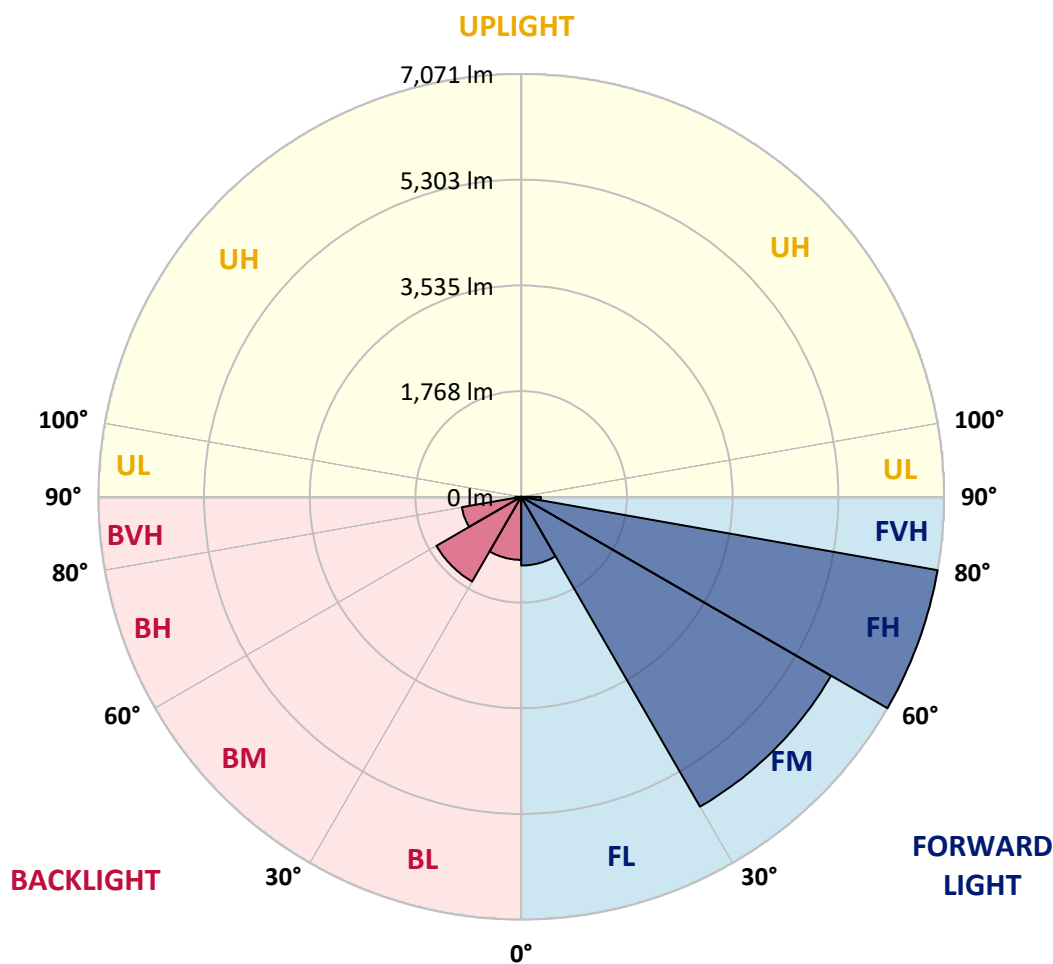
CATALOG NUMBER: VST-E06-LED-E-U-T4-7060

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1148.6 | 6.3       |                         |      |         |
| FM   | (30°-60°)   | 5982.1 | 32.6      |                         |      |         |
| FH   | (60°-80°)   | 7070.8 | 38.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 329.0  | 1.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1054.0 | 5.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1636.9 | 8.9       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1006.9 | 5.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 96.1   | 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°    | 2507.0 | 2507.0 | 2507.0 | 2507.0 | 2507.0 | 2507.0 | 2507.0  | 2507.0  | 2507.0  | 2507.0  | 2507.0  |
| 2.5°  | 2443.0 | 2444.2 | 2445.4 | 2445.4 | 2449.1 | 2449.1 | 2455.3  | 2459.0  | 2460.2  | 2467.6  | 2472.5  |
| 5°    | 2397.4 | 2396.2 | 2397.4 | 2399.9 | 2406.0 | 2410.9 | 2423.3  | 2431.9  | 2439.3  | 2451.6  | 2457.7  |
| 7.5°  | 2377.7 | 2380.2 | 2382.6 | 2383.8 | 2388.8 | 2401.1 | 2412.2  | 2420.8  | 2435.6  | 2450.3  | 2456.5  |
| 10°   | 2403.5 | 2407.2 | 2403.5 | 2406.0 | 2406.0 | 2417.1 | 2422.0  | 2428.2  | 2439.3  | 2452.8  | 2456.5  |
| 12.5° | 2463.9 | 2471.3 | 2463.9 | 2457.7 | 2452.8 | 2462.7 | 2460.2  | 2455.3  | 2461.4  | 2465.1  | 2465.1  |
| 15°   | 2563.6 | 2563.6 | 2558.7 | 2550.1 | 2537.8 | 2539.0 | 2527.9  | 2516.8  | 2511.9  | 2503.3  | 2497.1  |
| 17.5° | 2660.9 | 2658.4 | 2647.4 | 2636.3 | 2627.7 | 2624.0 | 2607.9  | 2593.2  | 2575.9  | 2562.4  | 2547.6  |
| 20°   | 2755.7 | 2765.6 | 2752.0 | 2736.0 | 2722.5 | 2713.8 | 2701.5  | 2672.0  | 2651.0  | 2628.9  | 2614.1  |
| 22.5° | 2919.5 | 2910.9 | 2896.1 | 2872.7 | 2859.1 | 2844.4 | 2818.5  | 2786.5  | 2754.5  | 2727.4  | 2708.9  |
| 25°   | 3088.2 | 3079.5 | 3058.6 | 3041.4 | 3021.7 | 3009.4 | 2981.0  | 2941.6  | 2910.9  | 2869.0  | 2844.4  |
| 27.5° | 3269.2 | 3261.8 | 3237.2 | 3223.6 | 3210.1 | 3195.3 | 3170.7  | 3130.0  | 3101.7  | 3053.7  | 3027.8  |
| 30°   | 3473.6 | 3472.3 | 3439.1 | 3436.6 | 3416.9 | 3400.9 | 3383.7  | 3349.2  | 3320.9  | 3272.9  | 3242.1  |
| 32.5° | 3691.5 | 3686.6 | 3663.2 | 3655.8 | 3669.4 | 3658.3 | 3633.6  | 3597.9  | 3561.0  | 3532.7  | 3498.2  |
| 35°   | 4001.8 | 3993.2 | 3979.6 | 3985.8 | 3994.4 | 4025.2 | 3987.0  | 3956.3  | 3911.9  | 3875.0  | 3827.0  |
| 37.5° | 4228.4 | 4216.1 | 4232.1 | 4266.5 | 4315.8 | 4339.2 | 4372.4  | 4373.7  | 4352.7  | 4303.5  | 4261.6  |
| 40°   | 4436.5 | 4431.5 | 4468.5 | 4516.5 | 4607.6 | 4674.1 | 4736.9  | 4767.7  | 4775.1  | 4743.1  | 4680.3  |
| 42.5° | 4612.5 | 4627.3 | 4676.6 | 4750.5 | 4878.5 | 4979.5 | 5096.5  | 5169.1  | 5214.7  | 5197.4  | 5169.1  |
| 45°   | 4821.9 | 4829.3 | 4889.6 | 4983.2 | 5105.1 | 5272.5 | 5426.5  | 5549.6  | 5629.6  | 5628.4  | 5596.4  |
| 47.5° | 5084.1 | 5085.4 | 5137.1 | 5246.7 | 5377.2 | 5547.1 | 5741.7  | 5905.4  | 6011.3  | 6016.3  | 5991.6  |
| 50°   | 5395.7 | 5393.2 | 5449.9 | 5553.3 | 5692.4 | 5856.2 | 6063.1  | 6267.5  | 6415.2  | 6415.2  | 6379.5  |
| 52.5° | 5797.1 | 5792.2 | 5822.9 | 5914.1 | 6048.3 | 6220.7 | 6426.3  | 6662.7  | 6822.8  | 6857.3  | 6779.7  |
| 55°   | 6332.7 | 6340.1 | 6347.5 | 6427.5 | 6542.0 | 6678.7 | 6915.1  | 7133.1  | 7347.3  | 7367.0  | 7321.5  |
| 57.5° | 6952.1 | 6927.4 | 6980.4 | 7110.9 | 7241.4 | 7412.6 | 7580.0  | 7837.4  | 8091.0  | 8134.1  | 8128.0  |
| 60°   | 7919.9 | 7887.9 | 7942.1 | 8108.3 | 8252.4 | 8522.0 | 8808.9  | 9141.4  | 9441.8  | 9530.5  | 9423.3  |
| 62.5° | 8810.1 | 8849.5 | 8923.4 | 9116.7 | 9326.1 | 9685.6 | 10116.6 | 10686.7 | 11256.8 | 11567.1 | 11544.9 |
| 65°   | 8730.1 | 8693.2 | 8834.8 | 9098.3 | 9477.5 | 9935.6 | 10471.2 | 11158.3 | 11979.6 | 12602.6 | 12658.0 |
| 66°   | 8433.4 | 8395.2 | 8547.9 | 8849.5 | 9283.0 | 9792.7 | 10387.5 | 11086.9 | 11926.6 | 12630.9 | 12715.9 |
| 67.5° | 7943.3 | 7905.1 | 8077.5 | 8352.1 | 8799.1 | 9440.6 | 10083.3 | 10848.0 | 11721.0 | 12395.8 | 12464.7 |
| 70°   | 6997.6 | 6945.9 | 7080.1 | 7390.4 | 7752.4 | 8373.0 | 8985.0  | 9795.2  | 10691.6 | 11230.9 | 11256.8 |
| 72.5° | 5927.6 | 5806.9 | 5949.8 | 6188.6 | 6447.2 | 6960.7 | 7493.9  | 8048.0  | 8762.1  | 9260.8  | 9403.6  |
| 75°   | 4301.0 | 4363.8 | 4405.7 | 4563.3 | 4734.5 | 5159.3 | 5472.0  | 5936.2  | 6489.1  | 6849.9  | 6964.4  |
| 77.5° | 2281.6 | 2376.5 | 2435.6 | 2593.2 | 2876.4 | 3200.2 | 3538.8  | 3825.7  | 4189.0  | 4390.9  | 4531.3  |
| 80°   | 1280.6 | 1347.1 | 1443.1 | 1567.5 | 1705.4 | 1954.1 | 2154.8  | 2302.6  | 2354.3  | 2390.0  | 2422.0  |
| 82.5° | 704.3  | 873.0  | 1015.8 | 1102.0 | 1183.3 | 1283.0 | 1402.5  | 1525.6  | 1565.0  | 1505.9  | 1475.1  |
| 85°   | 109.6  | 161.3  | 491.3  | 599.7  | 652.6  | 728.9  | 815.1   | 906.3   | 907.5   | 780.7   | 852.1   |
| 87.5° | 30.8   | 34.5   | 70.2   | 105.9  | 103.4  | 83.7   | 103.4   | 188.4   | 110.8   | 55.4    | 64.0    |
| 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°    | 2507.0  | 2507.0  | 2507.0  | 2507.0 | 2507.0 | 2507.0 | 2507.0 | 2507.0 | 2507.0 | 2507.0 | 2507.0 |
| 2.5°  | 2475.0  | 2477.4  | 2483.6  | 2489.7 | 2495.9 | 2502.1 | 2505.7 | 2511.9 | 2516.8 | 2524.2 | 2532.8 |
| 5°    | 2465.1  | 2471.3  | 2482.4  | 2495.9 | 2508.2 | 2519.3 | 2527.9 | 2540.2 | 2551.3 | 2561.2 | 2575.9 |
| 7.5°  | 2465.1  | 2477.4  | 2495.9  | 2510.7 | 2521.8 | 2535.3 | 2548.8 | 2561.2 | 2573.5 | 2583.3 | 2593.2 |
| 10°   | 2466.3  | 2478.7  | 2497.1  | 2514.4 | 2526.7 | 2541.5 | 2552.5 | 2563.6 | 2577.2 | 2583.3 | 2595.6 |
| 12.5° | 2471.3  | 2476.2  | 2489.7  | 2507.0 | 2521.8 | 2536.5 | 2547.6 | 2558.7 | 2573.5 | 2575.9 | 2584.6 |
| 15°   | 2495.9  | 2488.5  | 2492.2  | 2504.5 | 2520.5 | 2532.8 | 2545.2 | 2553.8 | 2563.6 | 2561.2 | 2568.5 |
| 17.5° | 2541.5  | 2523.0  | 2515.6  | 2516.8 | 2524.2 | 2532.8 | 2537.8 | 2539.0 | 2540.2 | 2529.1 | 2530.4 |
| 20°   | 2603.0  | 2577.2  | 2559.9  | 2551.3 | 2541.5 | 2532.8 | 2519.3 | 2503.3 | 2488.5 | 2466.3 | 2463.9 |
| 22.5° | 2695.4  | 2657.2  | 2638.7  | 2615.3 | 2585.8 | 2548.8 | 2515.6 | 2476.2 | 2444.2 | 2410.9 | 2398.6 |
| 25°   | 2829.6  | 2790.2  | 2770.5  | 2733.5 | 2680.6 | 2627.7 | 2579.6 | 2526.7 | 2479.9 | 2440.5 | 2422.0 |
| 27.5° | 3009.4  | 2970.0  | 2949.0  | 2910.9 | 2845.6 | 2792.6 | 2726.2 | 2669.5 | 2612.9 | 2555.0 | 2531.6 |
| 30°   | 3227.3  | 3192.8  | 3169.4  | 3138.7 | 3082.0 | 3024.1 | 2946.6 | 2859.1 | 2769.3 | 2676.9 | 2631.3 |
| 32.5° | 3484.7  | 3446.5  | 3429.2  | 3393.5 | 3334.4 | 3274.1 | 3187.9 | 3075.9 | 2925.6 | 2780.3 | 2689.2 |
| 35°   | 3806.0  | 3762.9  | 3743.2  | 3696.4 | 3627.5 | 3538.8 | 3446.5 | 3296.3 | 3093.1 | 2891.2 | 2742.2 |
| 37.5° | 4235.8  | 4139.7  | 4074.5  | 3967.3 | 3856.5 | 3732.2 | 3600.4 | 3446.5 | 3206.4 | 2956.4 | 2749.6 |
| 40°   | 4616.2  | 4519.0  | 4393.4  | 4239.5 | 4067.1 | 3895.9 | 3745.7 | 3570.8 | 3309.8 | 3003.2 | 2726.2 |
| 42.5° | 5089.1  | 4916.7  | 4716.0  | 4507.9 | 4278.9 | 4068.3 | 3889.8 | 3684.1 | 3380.0 | 3015.5 | 2660.9 |
| 45°   | 5521.3  | 5315.6  | 5047.2  | 4770.2 | 4485.7 | 4221.0 | 4020.3 | 3791.3 | 3440.3 | 3015.5 | 2582.1 |
| 47.5° | 5915.3  | 5669.0  | 5347.7  | 5002.9 | 4671.7 | 4382.3 | 4154.5 | 3900.8 | 3525.3 | 3053.7 | 2558.7 |
| 50°   | 6279.8  | 5996.6  | 5630.9  | 5230.7 | 4858.8 | 4549.8 | 4304.7 | 4041.2 | 3654.6 | 3152.2 | 2615.3 |
| 52.5° | 6663.9  | 6363.5  | 5917.8  | 5492.9 | 5082.9 | 4751.7 | 4490.6 | 4214.8 | 3822.0 | 3307.3 | 2715.1 |
| 55°   | 7167.6  | 6815.4  | 6309.3  | 5841.4 | 5390.7 | 5025.0 | 4728.3 | 4422.9 | 4005.5 | 3482.2 | 2837.0 |
| 57.5° | 7961.8  | 7450.8  | 6944.7  | 6336.4 | 5911.6 | 5430.2 | 5105.1 | 4754.2 | 4303.5 | 3710.0 | 3020.4 |
| 60°   | 9351.9  | 8723.9  | 8115.7  | 7416.3 | 6891.7 | 6388.1 | 5896.8 | 5438.8 | 4895.8 | 4224.7 | 3423.1 |
| 62.5° | 11336.8 | 10699.0 | 9743.5  | 8887.7 | 8096.0 | 7428.6 | 6788.3 | 6205.9 | 5509.0 | 4775.1 | 3919.3 |
| 65°   | 12522.6 | 11792.4 | 10653.4 | 9503.4 | 8541.7 | 7714.3 | 6981.6 | 6268.7 | 5516.3 | 4800.9 | 4069.5 |
| 66°   | 12617.4 | 11926.6 | 10710.1 | 9494.8 | 8496.2 | 7637.9 | 6875.7 | 6138.2 | 5367.4 | 4682.7 | 4020.3 |
| 67.5° | 12441.3 | 11846.6 | 10594.3 | 9327.3 | 8306.5 | 7379.3 | 6596.2 | 5822.9 | 5048.4 | 4414.3 | 3856.5 |
| 70°   | 11198.9 | 10769.2 | 9695.5  | 8508.5 | 7490.2 | 6672.6 | 5846.3 | 5102.6 | 4368.7 | 3835.6 | 3421.9 |
| 72.5° | 9180.8  | 8636.5  | 7885.4  | 7087.5 | 6285.9 | 5560.7 | 4809.6 | 4176.7 | 3561.0 | 3173.1 | 2880.1 |
| 75°   | 6744.0  | 6253.9  | 5426.5  | 4929.0 | 4399.5 | 3943.9 | 3437.9 | 2838.2 | 2401.1 | 2206.5 | 2135.1 |
| 77.5° | 4275.2  | 3743.2  | 3045.1  | 2495.9 | 2146.2 | 1844.5 | 1454.2 | 1156.2 | 926.0  | 964.1  | 1067.6 |
| 80°   | 2159.7  | 1860.5  | 1392.6  | 1099.6 | 950.6  | 790.5  | 625.5  | 474.1  | 346.0  | 395.3  | 447.0  |
| 82.5° | 1386.5  | 1157.4  | 922.3   | 726.5  | 613.2  | 540.6  | 432.2  | 314.0  | 234.0  | 263.5  | 322.6  |
| 85°   | 834.8   | 705.6   | 562.7   | 460.5  | 400.2  | 333.7  | 245.0  | 173.6  | 172.4  | 184.7  | 227.8  |
| 87.5° | 126.8   | 181.0   | 104.7   | 112.1  | 118.2  | 126.8  | 112.1  | 94.8   | 82.5   | 107.1  | 135.4  |
| 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°    | 2507.0 | 2507.0 | 2507.0 | 2507.0 | 2507.0 | 2507.0 | 2507.0 | 2507.0 | 2507.0 | 2507.0 | 2507.0 |
| 2.5°  | 2541.5 | 2543.9 | 2548.8 | 2555.0 | 2553.8 | 2562.4 | 2567.3 | 2562.4 | 2573.5 | 2573.5 | 2579.6 |
| 5°    | 2588.2 | 2591.9 | 2600.6 | 2606.7 | 2609.2 | 2616.6 | 2619.0 | 2617.8 | 2620.3 | 2621.5 | 2624.0 |
| 7.5°  | 2601.8 | 2611.6 | 2615.3 | 2619.0 | 2620.3 | 2622.7 | 2622.7 | 2620.3 | 2620.3 | 2619.0 | 2621.5 |
| 10°   | 2598.1 | 2601.8 | 2604.3 | 2603.0 | 2603.0 | 2600.6 | 2599.3 | 2598.1 | 2598.1 | 2595.6 | 2599.3 |
| 12.5° | 2585.8 | 2585.8 | 2585.8 | 2583.3 | 2583.3 | 2582.1 | 2582.1 | 2582.1 | 2584.6 | 2585.8 | 2591.9 |
| 15°   | 2561.2 | 2561.2 | 2563.6 | 2562.4 | 2566.1 | 2572.2 | 2579.6 | 2584.6 | 2590.7 | 2591.9 | 2595.6 |
| 17.5° | 2523.0 | 2524.2 | 2531.6 | 2547.6 | 2563.6 | 2582.1 | 2595.6 | 2599.3 | 2594.4 | 2582.1 | 2573.5 |
| 20°   | 2456.5 | 2472.5 | 2502.1 | 2540.2 | 2575.9 | 2599.3 | 2605.5 | 2590.7 | 2567.3 | 2535.3 | 2518.1 |
| 22.5° | 2397.4 | 2429.4 | 2482.4 | 2545.2 | 2589.5 | 2605.5 | 2587.0 | 2552.5 | 2510.7 | 2473.7 | 2447.9 |
| 25°   | 2420.8 | 2457.7 | 2513.1 | 2567.3 | 2595.6 | 2587.0 | 2550.1 | 2500.8 | 2456.5 | 2413.4 | 2371.5 |
| 27.5° | 2519.3 | 2556.2 | 2595.6 | 2611.6 | 2601.8 | 2569.8 | 2518.1 | 2465.1 | 2406.0 | 2344.4 | 2292.7 |
| 30°   | 2612.9 | 2633.8 | 2636.3 | 2620.3 | 2584.6 | 2532.8 | 2472.5 | 2410.9 | 2335.8 | 2261.9 | 2196.7 |
| 32.5° | 2642.4 | 2617.8 | 2573.5 | 2527.9 | 2478.7 | 2425.7 | 2355.5 | 2274.3 | 2194.2 | 2110.5 | 2037.8 |
| 35°   | 2633.8 | 2534.1 | 2424.5 | 2327.2 | 2268.1 | 2207.8 | 2143.7 | 2035.4 | 1945.5 | 1874.1 | 1827.3 |
| 37.5° | 2556.2 | 2374.0 | 2205.3 | 2063.7 | 1971.4 | 1899.9 | 1805.1 | 1715.2 | 1637.7 | 1605.6 | 1567.5 |
| 40°   | 2447.9 | 2169.6 | 1935.6 | 1737.4 | 1641.4 | 1550.2 | 1444.3 | 1375.4 | 1353.2 | 1323.7 | 1324.9 |
| 42.5° | 2292.7 | 1930.7 | 1629.0 | 1401.2 | 1296.6 | 1196.8 | 1121.7 | 1081.1 | 1082.3 | 1057.7 | 1062.6 |
| 45°   | 2129.0 | 1690.6 | 1311.4 | 1084.8 | 981.4  | 896.4  | 854.5  | 842.2  | 843.5  | 844.7  | 837.3  |
| 47.5° | 2029.2 | 1503.4 | 1051.6 | 822.5  | 731.4  | 683.4  | 661.2  | 655.1  | 656.3  | 657.5  | 648.9  |
| 50°   | 2014.5 | 1406.2 | 877.9  | 629.2  | 570.1  | 543.0  | 531.9  | 525.8  | 525.8  | 520.9  | 513.5  |
| 52.5° | 2056.3 | 1381.5 | 793.0  | 545.5  | 488.8  | 464.2  | 455.6  | 450.7  | 443.3  | 433.4  | 419.9  |
| 55°   | 2122.8 | 1403.7 | 767.1  | 517.2  | 461.7  | 437.1  | 426.0  | 423.6  | 411.3  | 392.8  | 370.6  |
| 57.5° | 2245.9 | 1483.7 | 784.4  | 524.5  | 466.7  | 444.5  | 437.1  | 434.7  | 417.4  | 389.1  | 360.8  |
| 60°   | 2599.3 | 1716.5 | 870.5  | 566.4  | 502.4  | 483.9  | 483.9  | 480.2  | 456.8  | 416.2  | 375.6  |
| 62.5° | 3086.9 | 2057.5 | 987.5  | 624.3  | 551.6  | 549.2  | 570.1  | 571.3  | 529.5  | 464.2  | 400.2  |
| 65°   | 3322.1 | 2217.6 | 1028.2 | 636.6  | 565.2  | 593.5  | 635.4  | 635.4  | 576.3  | 486.4  | 403.9  |
| 66°   | 3323.4 | 2213.9 | 1015.8 | 621.8  | 550.4  | 587.3  | 630.4  | 630.4  | 568.9  | 480.2  | 397.7  |
| 67.5° | 3238.4 | 2145.0 | 975.2  | 594.7  | 517.2  | 551.6  | 589.8  | 588.6  | 533.2  | 455.6  | 380.5  |
| 70°   | 2904.7 | 1897.5 | 859.5  | 550.4  | 477.8  | 479.0  | 492.5  | 483.9  | 447.0  | 394.0  | 346.0  |
| 72.5° | 2504.5 | 1587.2 | 745.0  | 522.1  | 447.0  | 423.6  | 412.5  | 405.1  | 381.7  | 349.7  | 320.1  |
| 75°   | 1920.9 | 1232.6 | 648.9  | 496.2  | 419.9  | 379.2  | 364.5  | 358.3  | 342.3  | 323.8  | 300.4  |
| 77.5° | 1177.1 | 844.7  | 550.4  | 454.4  | 389.1  | 352.2  | 336.2  | 323.8  | 307.8  | 290.6  | 274.6  |
| 80°   | 507.3  | 509.8  | 440.8  | 385.4  | 338.6  | 295.5  | 274.6  | 259.8  | 251.2  | 245.0  | 236.4  |
| 82.5° | 354.6  | 365.7  | 336.2  | 299.2  | 258.6  | 227.8  | 209.3  | 205.6  | 206.9  | 206.9  | 204.4  |
| 85°   | 266.0  | 261.0  | 235.2  | 214.3  | 195.8  | 176.1  | 161.3  | 160.1  | 165.0  | 165.0  | 161.3  |
| 87.5° | 153.9  | 155.1  | 133.0  | 124.4  | 129.3  | 110.8  | 101.0  | 102.2  | 114.5  | 113.3  | 110.8  |
| 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°    | 2507.0 | 2507.0 | 2507.0 | 2507.0 | 2507.0 |
| 2.5°  | 2579.6 | 2583.3 | 2582.1 | 2585.8 | 2582.1 |
| 5°    | 2627.7 | 2626.4 | 2625.2 | 2630.1 | 2624.0 |
| 7.5°  | 2620.3 | 2621.5 | 2621.5 | 2621.5 | 2620.3 |
| 10°   | 2601.8 | 2606.7 | 2609.2 | 2614.1 | 2612.9 |
| 12.5° | 2595.6 | 2603.0 | 2610.4 | 2617.8 | 2619.0 |
| 15°   | 2596.9 | 2601.8 | 2605.5 | 2609.2 | 2610.4 |
| 17.5° | 2564.9 | 2563.6 | 2559.9 | 2557.5 | 2555.0 |
| 20°   | 2499.6 | 2493.4 | 2487.3 | 2477.4 | 2482.4 |
| 22.5° | 2418.3 | 2401.1 | 2381.4 | 2365.4 | 2364.1 |
| 25°   | 2323.5 | 2291.5 | 2259.5 | 2238.6 | 2231.2 |
| 27.5° | 2239.8 | 2201.6 | 2168.4 | 2149.9 | 2145.0 |
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| 32.5° | 1992.3 | 1965.2 | 1928.3 | 1915.9 | 1914.7 |
| 35°   | 1786.7 | 1765.7 | 1739.9 | 1734.9 | 1728.8 |
| 37.5° | 1553.9 | 1546.5 | 1534.2 | 1519.5 | 1517.0 |
| 40°   | 1305.2 | 1310.1 | 1306.4 | 1297.8 | 1284.3 |
| 42.5° | 1065.1 | 1073.7 | 1074.9 | 1081.1 | 1087.3 |
| 45°   | 848.4  | 855.8  | 855.8  | 861.9  | 869.3  |
| 47.5° | 651.4  | 646.4  | 650.1  | 656.3  | 660.0  |
| 50°   | 492.5  | 488.8  | 482.7  | 477.8  | 472.8  |
| 52.5° | 396.5  | 389.1  | 371.9  | 366.9  | 362.0  |
| 55°   | 349.7  | 336.2  | 323.8  | 318.9  | 318.9  |
| 57.5° | 336.2  | 318.9  | 305.4  | 299.2  | 296.7  |
| 60°   | 338.6  | 314.0  | 296.7  | 286.9  | 283.2  |
| 62.5° | 349.7  | 315.2  | 291.8  | 280.7  | 277.0  |
| 65°   | 348.5  | 312.8  | 290.6  | 278.3  | 274.6  |
| 66°   | 342.3  | 309.1  | 288.1  | 277.0  | 274.6  |
| 67.5° | 332.5  | 304.1  | 285.7  | 275.8  | 272.1  |
| 70°   | 312.8  | 294.3  | 280.7  | 272.1  | 268.4  |
| 72.5° | 296.7  | 284.4  | 272.1  | 262.3  | 259.8  |
| 75°   | 282.0  | 269.7  | 258.6  | 253.7  | 250.0  |
| 77.5° | 259.8  | 248.7  | 242.6  | 237.6  | 235.2  |
| 80°   | 230.3  | 222.9  | 215.5  | 210.6  | 206.9  |
| 82.5° | 200.7  | 190.9  | 183.5  | 179.8  | 177.3  |
| 85°   | 163.8  | 157.6  | 146.5  | 139.1  | 137.9  |
| 87.5° | 109.6  | 103.4  | 99.7   | 93.6   | 87.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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