

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: P158698

Luminaire Tested: **VST-E08-LED-E-U-SL4-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158698  
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-E08-LED-E-U-SL4-8030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (168) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19586.9 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

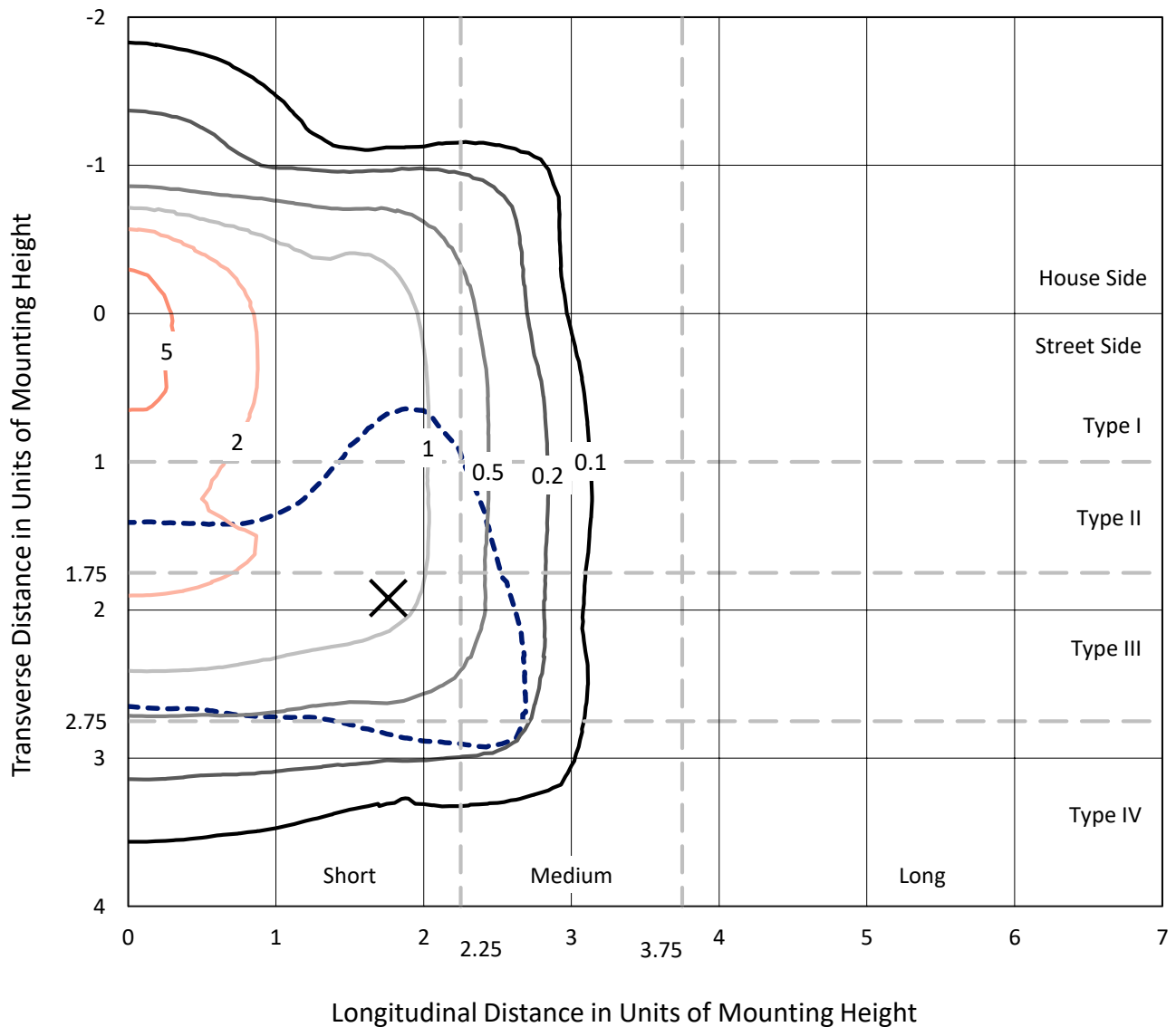
Input Watts (W): 194.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

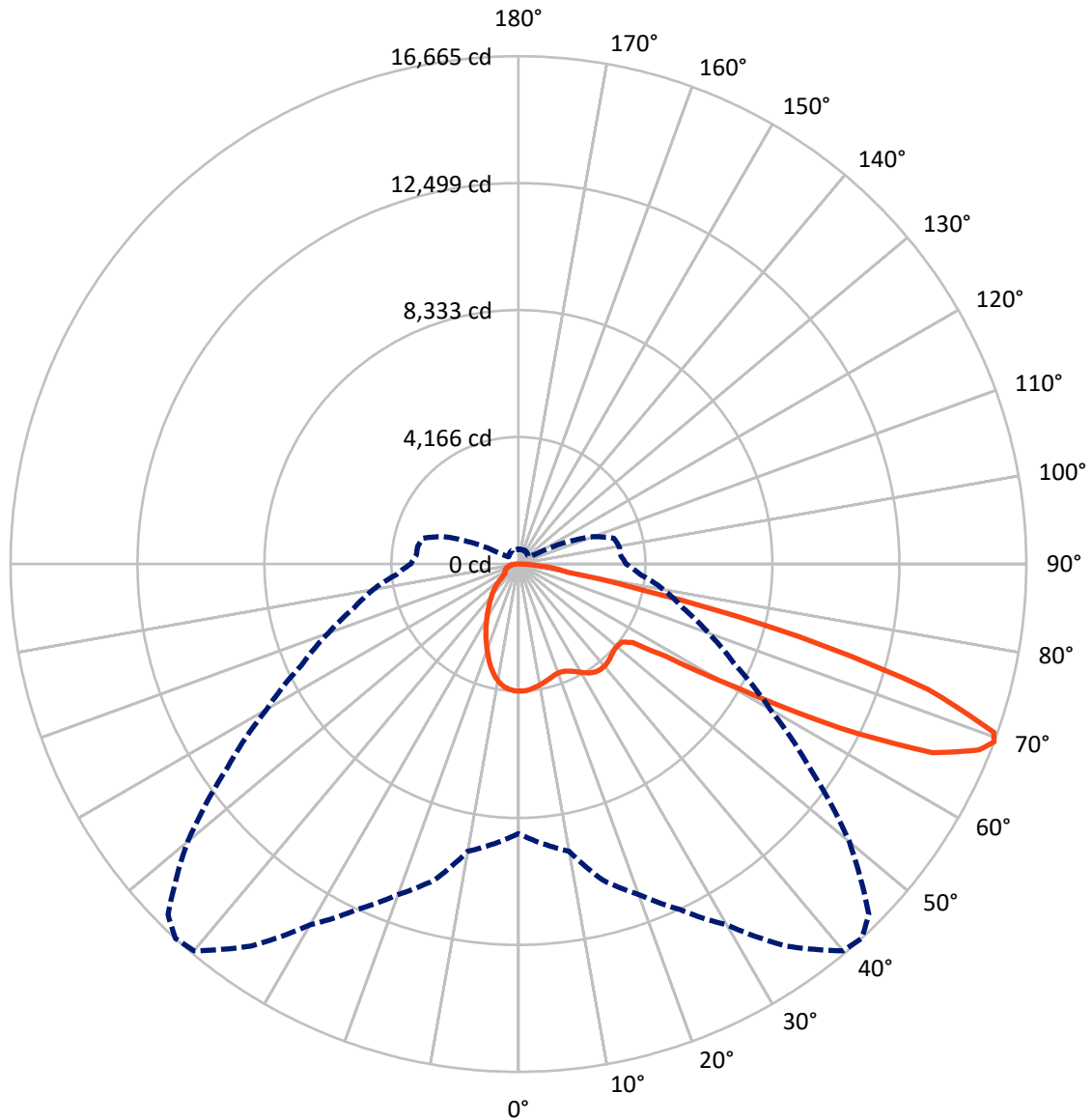
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 42.5-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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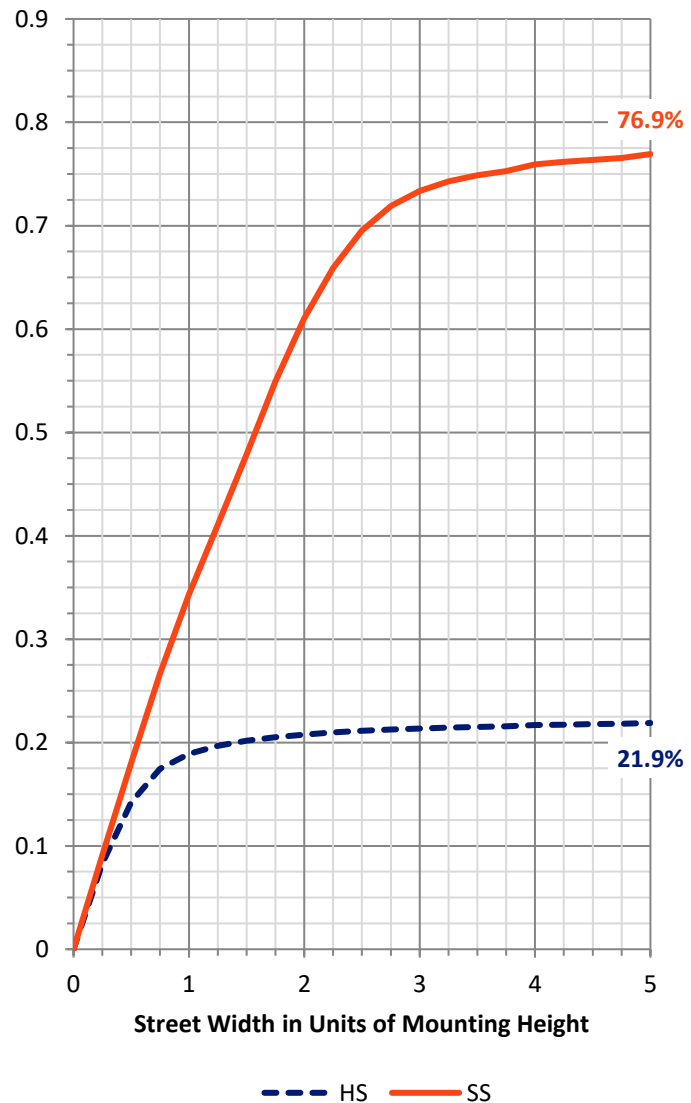
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4354.5   | 0.0    | 4354.5  |
|                    | % Fixture | 22.2     | 0.0    | 22.2    |
| <b>Street Side</b> | Lumens    | 15232.4  | 0.0    | 15232.4 |
|                    | % Fixture | 77.8     | 0.0    | 77.8    |
| <b>Total</b>       | Lumens    | 19586.9  | 0.0    | 19586.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 388.3   | 2.0       |
| 10°-20°   | 1046.5  | 5.3       |
| 20°-30°   | 1526.0  | 7.8       |
| 30°-40°   | 1945.4  | 9.9       |
| 40°-50°   | 2263.5  | 11.6      |
| 50°-60°   | 3444.0  | 17.6      |
| 60°-70°   | 6083.6  | 31.1      |
| 70°-80°   | 2510.5  | 12.8      |
| 80°-90°   | 379.1   | 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°    | 19586.9 | 100.0     |
| 0°-180°   | 19586.9 | 100.0     |

**Coefficient of Utilization**



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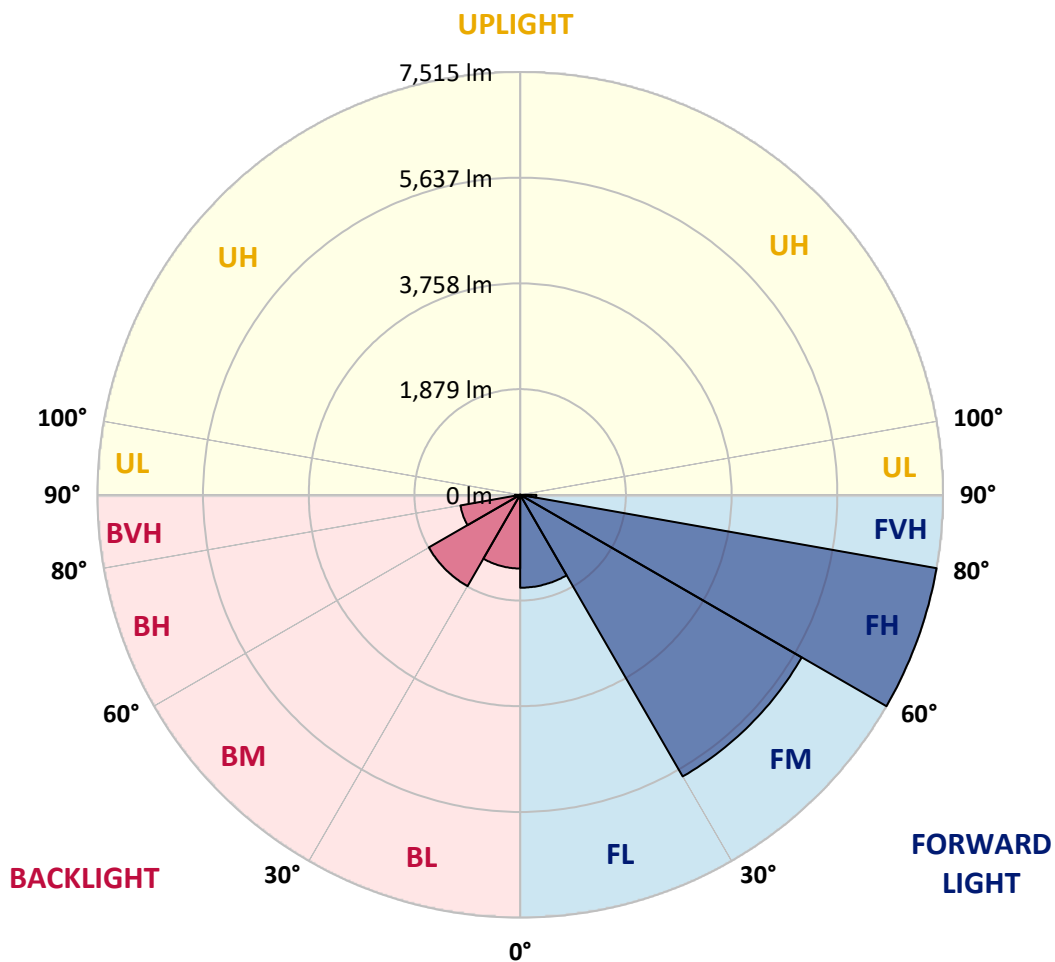
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1651.7 | 8.4       |                         |      |          |
| FM (30°-60°)   | 5778.6 | 29.5      |                         |      |          |
| FH (60°-80°)   | 7515.5 | 38.4      |                         |      | G4/12000 |
| FVH (80°-90°)  | 286.7  | 1.5       |                         |      | G3/500   |
| BL (0°-30°)    | 1309.2 | 6.7       | B3/2500                 |      |          |
| BM (30°-60°)   | 1874.2 | 9.6       | B2/2500                 |      |          |
| BH (60°-80°)   | 1078.6 | 5.5       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 92.4   | 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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 42.5°   | 45°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4171.3  | 4171.3  | 4171.3  | 4171.3  | 4171.3  | 4171.3  | 4171.3  | 4171.3  | 4171.3  | 4171.3  | 4171.3  |
| 2.5°  | 4157.8  | 4172.7  | 4167.3  | 4167.3  | 4171.3  | 4164.6  | 4164.6  | 4167.3  | 4160.5  | 4164.6  | 4163.2  |
| 5°    | 4143.0  | 4151.1  | 4148.4  | 4148.4  | 4148.4  | 4143.0  | 4140.3  | 4138.9  | 4129.5  | 4129.5  | 4125.4  |
| 7.5°  | 4110.6  | 4113.3  | 4117.3  | 4111.9  | 4110.6  | 4109.2  | 4099.8  | 4094.4  | 4083.6  | 4074.1  | 4076.8  |
| 10°   | 4067.4  | 4066.0  | 4072.8  | 4068.7  | 4063.3  | 4059.3  | 4051.2  | 4041.7  | 4029.6  | 4017.4  | 4016.0  |
| 12.5° | 4018.7  | 4017.4  | 4022.8  | 4020.1  | 4016.0  | 4007.9  | 4001.2  | 3985.0  | 3966.1  | 3951.2  | 3949.9  |
| 15°   | 3987.7  | 3983.6  | 3989.0  | 3983.6  | 3976.9  | 3968.8  | 3956.6  | 3936.4  | 3902.6  | 3887.8  | 3875.6  |
| 17.5° | 4017.4  | 4010.6  | 4013.3  | 4006.6  | 3997.1  | 3975.5  | 3947.2  | 3904.0  | 3855.4  | 3829.7  | 3810.8  |
| 20°   | 4121.4  | 4109.2  | 4111.9  | 4105.2  | 4083.6  | 4055.2  | 4001.2  | 3925.6  | 3843.2  | 3801.3  | 3771.6  |
| 22.5° | 4269.9  | 4260.5  | 4264.5  | 4257.8  | 4236.2  | 4192.9  | 4111.9  | 4003.9  | 3886.4  | 3825.6  | 3778.4  |
| 25°   | 4495.4  | 4503.5  | 4506.2  | 4475.2  | 4463.0  | 4383.4  | 4271.3  | 4121.4  | 3964.7  | 3893.2  | 3828.3  |
| 27.5° | 4749.3  | 4749.3  | 4761.5  | 4749.3  | 4725.0  | 4631.8  | 4473.8  | 4292.9  | 4091.7  | 3994.4  | 3916.1  |
| 30°   | 4996.4  | 4993.7  | 5016.7  | 5014.0  | 4974.8  | 4869.5  | 4689.9  | 4469.8  | 4240.2  | 4130.8  | 4030.9  |
| 32.5° | 5258.4  | 5266.5  | 5281.4  | 5276.0  | 5224.6  | 5078.8  | 4862.7  | 4623.7  | 4382.0  | 4261.8  | 4149.7  |
| 35°   | 5542.0  | 5546.0  | 5551.4  | 5548.7  | 5444.8  | 5261.1  | 4989.7  | 4722.3  | 4471.1  | 4352.3  | 4236.2  |
| 37.5° | 5825.6  | 5821.5  | 5814.8  | 5756.7  | 5637.9  | 5382.6  | 5066.6  | 4779.0  | 4515.7  | 4387.4  | 4267.2  |
| 40°   | 6079.4  | 6056.5  | 6034.9  | 5944.4  | 5762.1  | 5451.5  | 5096.4  | 4792.5  | 4511.6  | 4379.3  | 4261.8  |
| 42.5° | 6218.5  | 6192.9  | 6148.3  | 6034.9  | 5813.4  | 5458.3  | 5076.1  | 4752.0  | 4469.8  | 4338.8  | 4222.7  |
| 45°   | 6244.2  | 6225.3  | 6182.1  | 6055.1  | 5801.3  | 5415.0  | 5014.0  | 4685.8  | 4407.7  | 4276.7  | 4167.3  |
| 47.5° | 6183.4  | 6168.6  | 6126.7  | 6001.1  | 5748.6  | 5350.2  | 4942.4  | 4615.6  | 4346.9  | 4224.0  | 4118.7  |
| 50°   | 6090.2  | 6076.7  | 6044.3  | 5929.5  | 5689.2  | 5305.7  | 4906.0  | 4579.2  | 4326.6  | 4214.6  | 4117.3  |
| 52.5° | 6241.5  | 6252.3  | 6157.8  | 6032.2  | 5752.6  | 5344.8  | 4946.5  | 4617.0  | 4363.1  | 4252.4  | 4151.1  |
| 55°   | 8592.5  | 8577.6  | 8009.1  | 7532.5  | 6680.4  | 5907.9  | 5331.3  | 4916.8  | 4645.3  | 4534.6  | 4440.1  |
| 57.5° | 11165.0 | 11113.7 | 10880.1 | 10434.4 | 9518.9  | 8296.8  | 7185.4  | 6240.1  | 5867.4  | 5708.1  | 5718.9  |
| 60°   | 12004.9 | 12023.8 | 11973.9 | 11815.9 | 11487.7 | 10851.7 | 10006.4 | 9296.1  | 8596.6  | 8254.9  | 8294.1  |
| 62.5° | 12470.8 | 12504.6 | 12547.8 | 12512.7 | 12406.0 | 12258.8 | 12152.1 | 12216.9 | 12119.7 | 11873.9 | 11678.1 |
| 65°   | 12535.6 | 12604.5 | 12747.6 | 12861.1 | 12916.4 | 13055.5 | 13382.3 | 14165.5 | 14881.2 | 14928.5 | 14584.2 |
| 67.5° | 11252.8 | 11443.2 | 11753.8 | 12279.1 | 12728.7 | 13223.0 | 14011.6 | 15202.6 | 16258.6 | 16293.8 | 15972.4 |
| 69°   | 8847.7  | 9213.7  | 9576.9  | 10750.4 | 11540.4 | 12508.6 | 13675.4 | 15302.6 | 16567.9 | 16665.1 | 16260.0 |
| 70°   | 7089.5  | 7306.9  | 7620.2  | 8799.1  | 9979.3  | 11213.6 | 12904.3 | 14973.1 | 16355.9 | 16551.7 | 16104.7 |
| 72.5° | 4256.4  | 4340.1  | 4448.2  | 4870.8  | 5478.5  | 6577.7  | 8819.4  | 12207.5 | 13796.9 | 14058.9 | 13490.4 |
| 75°   | 2752.1  | 2746.7  | 2756.1  | 2873.6  | 2908.7  | 3119.4  | 3825.6  | 6280.6  | 9000.3  | 9475.7  | 8795.1  |
| 77.5° | 2072.8  | 2091.7  | 2062.0  | 2072.8  | 2063.4  | 2120.1  | 2141.7  | 2248.4  | 3552.9  | 4376.6  | 3913.4  |
| 80°   | 1829.8  | 1839.2  | 1840.6  | 1835.2  | 1769.0  | 1763.6  | 1798.7  | 1737.9  | 1615.1  | 1639.4  | 1570.5  |
| 82.5° | 1043.8  | 1042.5  | 1054.7  | 1146.5  | 1184.3  | 1308.5  | 1359.8  | 1388.2  | 1281.5  | 1201.8  | 1087.1  |
| 85°   | 676.5   | 681.9   | 695.4   | 723.8   | 695.4   | 706.3   | 694.1   | 718.4   | 659.0   | 611.7   | 546.9   |
| 87.5° | 276.8   | 276.8   | 294.4   | 320.0   | 298.4   | 293.0   | 251.2   | 248.5   | 210.7   | 190.4   | 148.5   |
| 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°    | 4171.3  | 4171.3  | 4171.3  | 4171.3 | 4171.3 | 4171.3 | 4171.3 | 4171.3 | 4171.3 | 4171.3 | 4171.3 |
| 2.5°  | 4155.1  | 4163.2  | 4159.2  | 4164.6 | 4160.5 | 4160.5 | 4155.1 | 4153.8 | 4157.8 | 4152.4 | 4153.8 |
| 5°    | 4118.7  | 4120.0  | 4113.3  | 4116.0 | 4107.9 | 4105.2 | 4101.1 | 4090.3 | 4097.1 | 4090.3 | 4093.0 |
| 7.5°  | 4066.0  | 4062.0  | 4052.5  | 4039.0 | 4029.6 | 4025.5 | 4017.4 | 4002.5 | 4005.2 | 3993.1 | 3999.8 |
| 10°   | 3998.5  | 3985.0  | 3968.8  | 3948.5 | 3935.0 | 3922.9 | 3905.3 | 3887.8 | 3878.3 | 3867.5 | 3866.2 |
| 12.5° | 3922.9  | 3906.7  | 3885.1  | 3854.0 | 3824.3 | 3804.0 | 3777.0 | 3746.0 | 3736.5 | 3719.0 | 3709.5 |
| 15°   | 3840.5  | 3814.8  | 3789.2  | 3754.1 | 3721.7 | 3690.6 | 3654.1 | 3615.0 | 3589.3 | 3562.3 | 3542.1 |
| 17.5° | 3766.2  | 3736.5  | 3702.8  | 3669.0 | 3633.9 | 3596.1 | 3550.2 | 3501.5 | 3463.7 | 3413.8 | 3373.3 |
| 20°   | 3708.2  | 3670.3  | 3636.6  | 3601.5 | 3562.3 | 3516.4 | 3461.0 | 3398.9 | 3335.5 | 3280.1 | 3232.8 |
| 22.5° | 3685.2  | 3625.8  | 3585.3  | 3550.2 | 3511.0 | 3457.0 | 3389.5 | 3316.5 | 3239.6 | 3162.6 | 3100.5 |
| 25°   | 3704.1  | 3616.3  | 3552.9  | 3511.0 | 3477.2 | 3421.9 | 3346.3 | 3257.1 | 3168.0 | 3076.2 | 2992.5 |
| 27.5° | 3759.5  | 3647.4  | 3555.6  | 3489.4 | 3450.2 | 3394.9 | 3315.2 | 3220.7 | 3115.3 | 3012.7 | 2910.1 |
| 30°   | 3845.9  | 3700.1  | 3583.9  | 3490.7 | 3430.0 | 3366.5 | 3282.8 | 3173.4 | 3066.7 | 2949.2 | 2837.2 |
| 32.5° | 3929.6  | 3755.4  | 3616.3  | 3496.1 | 3403.0 | 3320.6 | 3227.4 | 3119.4 | 3004.6 | 2881.7 | 2765.6 |
| 35°   | 3989.0  | 3791.9  | 3628.5  | 3484.0 | 3361.1 | 3258.5 | 3158.6 | 3050.5 | 2938.4 | 2812.9 | 2694.0 |
| 37.5° | 4017.4  | 3812.1  | 3629.8  | 3451.6 | 3305.7 | 3192.3 | 3085.6 | 2979.0 | 2873.6 | 2754.8 | 2642.7 |
| 40°   | 4016.0  | 3810.8  | 3610.9  | 3409.7 | 3239.6 | 3119.4 | 3014.1 | 2910.1 | 2811.5 | 2707.5 | 2606.2 |
| 42.5° | 3986.3  | 3789.2  | 3583.9  | 3369.2 | 3192.3 | 3058.6 | 2949.2 | 2849.3 | 2765.6 | 2673.8 | 2588.7 |
| 45°   | 3940.4  | 3752.7  | 3555.6  | 3350.3 | 3178.8 | 3045.1 | 2929.0 | 2831.8 | 2757.5 | 2673.8 | 2600.8 |
| 47.5° | 3905.3  | 3732.5  | 3559.6  | 3384.1 | 3220.7 | 3081.6 | 2958.7 | 2852.0 | 2788.5 | 2721.0 | 2669.7 |
| 50°   | 3910.7  | 3741.9  | 3573.1  | 3404.3 | 3250.4 | 3109.9 | 2991.1 | 2893.9 | 2848.0 | 2830.4 | 2818.3 |
| 52.5° | 3939.1  | 3756.8  | 3613.6  | 3512.4 | 3459.7 | 3354.4 | 3284.1 | 3223.4 | 3257.1 | 3191.0 | 3112.6 |
| 55°   | 4301.0  | 4241.6  | 4380.7  | 4511.6 | 4677.7 | 4739.9 | 4680.4 | 4669.6 | 4723.6 | 4499.5 | 3985.0 |
| 57.5° | 5795.9  | 5949.8  | 6164.5  | 6277.9 | 6415.7 | 6379.2 | 6241.5 | 6126.7 | 5991.7 | 5729.7 | 5088.3 |
| 60°   | 8338.6  | 8222.5  | 8125.3  | 7851.1 | 7627.0 | 7365.0 | 7073.3 | 6823.5 | 6584.5 | 6207.7 | 5513.6 |
| 62.5° | 10958.4 | 10152.2 | 9478.4  | 8827.5 | 8303.5 | 7868.7 | 7446.0 | 7070.6 | 6708.7 | 6183.4 | 5436.7 |
| 65°   | 13224.3 | 11526.9 | 10261.6 | 9306.9 | 8541.2 | 7880.8 | 7338.0 | 6819.4 | 6359.0 | 5743.2 | 5004.5 |
| 67.5° | 14242.5 | 12115.7 | 10275.1 | 8907.1 | 7847.1 | 6950.4 | 6248.2 | 5465.0 | 4949.2 | 4554.9 | 4138.9 |
| 69°   | 14166.9 | 11666.0 | 9541.8  | 7857.9 | 6639.8 | 5594.6 | 4841.1 | 4024.1 | 3529.9 | 3362.5 | 3353.0 |
| 70°   | 13807.7 | 10904.4 | 8685.7  | 7005.8 | 5612.2 | 4573.8 | 3851.3 | 3118.0 | 2657.6 | 2542.8 | 2746.7 |
| 72.5° | 11273.0 | 7705.3  | 5443.4  | 4156.5 | 3196.4 | 2526.6 | 2060.7 | 1635.3 | 1305.8 | 1131.6 | 1169.4 |
| 75°   | 6367.1  | 3567.7  | 2306.5  | 1743.3 | 1473.3 | 1218.0 | 1045.2 | 891.3  | 806.2  | 654.9  | 518.5  |
| 77.5° | 2314.6  | 1531.3  | 1218.0  | 1053.3 | 746.8  | 514.5  | 430.8  | 376.8  | 341.6  | 341.6  | 325.4  |
| 80°   | 1463.8  | 1153.2  | 804.8   | 551.0  | 407.8  | 355.2  | 310.6  | 272.8  | 251.2  | 245.8  | 251.2  |
| 82.5° | 914.2   | 706.3   | 451.0   | 345.7  | 290.3  | 260.6  | 226.9  | 198.5  | 181.0  | 176.9  | 185.0  |
| 85°   | 451.0   | 349.7   | 274.1   | 244.4  | 229.6  | 213.4  | 187.7  | 160.7  | 155.3  | 166.1  | 194.5  |
| 87.5° | 135.0   | 120.2   | 98.6    | 102.6  | 108.0  | 105.3  | 83.7   | 72.9   | 68.9   | 90.5   | 141.8  |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4171.3 | 4171.3 | 4171.3 | 4171.3 | 4171.3 | 4171.3 | 4171.3 | 4171.3 | 4171.3 | 4171.3 | 4171.3 |
| 2.5°  | 4156.5 | 4155.1 | 4157.8 | 4153.8 | 4156.5 | 4157.8 | 4155.1 | 4167.3 | 4159.2 | 4160.5 | 4165.9 |
| 5°    | 4095.7 | 4093.0 | 4103.8 | 4101.1 | 4106.5 | 4111.9 | 4109.2 | 4126.8 | 4120.0 | 4125.4 | 4136.2 |
| 7.5°  | 3994.4 | 3999.8 | 4001.2 | 4001.2 | 4012.0 | 4029.6 | 4033.6 | 4044.4 | 4044.4 | 4059.3 | 4070.1 |
| 10°   | 3859.4 | 3860.8 | 3868.9 | 3867.5 | 3881.0 | 3899.9 | 3902.6 | 3921.5 | 3928.3 | 3952.6 | 3967.4 |
| 12.5° | 3702.8 | 3696.0 | 3694.7 | 3693.3 | 3710.9 | 3731.1 | 3733.8 | 3766.2 | 3779.7 | 3801.3 | 3825.6 |
| 15°   | 3527.2 | 3509.7 | 3504.3 | 3515.1 | 3511.0 | 3523.2 | 3535.3 | 3552.9 | 3571.8 | 3615.0 | 3636.6 |
| 17.5° | 3355.7 | 3320.6 | 3311.1 | 3299.0 | 3286.8 | 3286.8 | 3292.2 | 3313.8 | 3353.0 | 3376.0 | 3424.6 |
| 20°   | 3180.2 | 3138.3 | 3104.5 | 3072.1 | 3043.8 | 3033.0 | 3034.3 | 3061.3 | 3089.7 | 3127.5 | 3173.4 |
| 22.5° | 3033.0 | 2969.5 | 2911.4 | 2868.2 | 2810.2 | 2808.8 | 2800.7 | 2808.8 | 2839.9 | 2849.3 | 2875.0 |
| 25°   | 2906.0 | 2821.0 | 2742.6 | 2672.4 | 2615.7 | 2586.0 | 2577.9 | 2575.2 | 2560.3 | 2556.3 | 2537.4 |
| 27.5° | 2807.5 | 2704.8 | 2603.5 | 2518.5 | 2448.2 | 2407.7 | 2356.4 | 2320.0 | 2267.3 | 2253.8 | 2220.0 |
| 30°   | 2726.4 | 2615.7 | 2505.0 | 2394.2 | 2314.6 | 2241.6 | 2155.2 | 2091.7 | 2010.7 | 1958.1 | 1912.1 |
| 32.5° | 2648.1 | 2536.0 | 2423.9 | 2314.6 | 2191.7 | 2078.2 | 1964.8 | 1866.2 | 1775.8 | 1694.7 | 1627.2 |
| 35°   | 2583.3 | 2476.6 | 2363.2 | 2230.8 | 2074.2 | 1910.8 | 1774.4 | 1662.3 | 1538.1 | 1453.0 | 1367.9 |
| 37.5° | 2541.4 | 2444.2 | 2330.8 | 2148.5 | 1947.3 | 1771.7 | 1616.4 | 1480.0 | 1353.1 | 1224.8 | 1128.9 |
| 40°   | 2522.5 | 2437.4 | 2295.7 | 2072.8 | 1836.5 | 1642.1 | 1470.6 | 1319.3 | 1157.3 | 1012.8 | 910.2  |
| 42.5° | 2521.2 | 2434.7 | 2247.0 | 1989.1 | 1744.7 | 1532.7 | 1342.3 | 1161.3 | 981.7  | 833.2  | 731.9  |
| 45°   | 2545.5 | 2430.7 | 2195.7 | 1918.9 | 1663.7 | 1442.2 | 1215.3 | 995.2  | 794.0  | 683.3  | 629.3  |
| 47.5° | 2610.3 | 2437.4 | 2153.9 | 1854.1 | 1586.7 | 1332.8 | 1069.5 | 812.9  | 646.8  | 595.5  | 595.5  |
| 50°   | 2726.4 | 2476.6 | 2143.1 | 1808.2 | 1509.7 | 1205.9 | 891.3  | 656.3  | 572.6  | 572.6  | 588.8  |
| 52.5° | 2904.7 | 2559.0 | 2162.0 | 1775.8 | 1413.9 | 1038.4 | 702.2  | 565.8  | 549.6  | 564.5  | 586.1  |
| 55°   | 3315.2 | 2704.8 | 2187.6 | 1720.4 | 1268.0 | 823.7  | 579.3  | 534.8  | 541.5  | 559.1  | 579.3  |
| 57.5° | 4068.7 | 3016.8 | 2214.6 | 1598.9 | 1033.0 | 634.7  | 525.3  | 522.6  | 534.8  | 551.0  | 568.5  |
| 60°   | 4564.3 | 3413.8 | 2283.5 | 1415.2 | 781.9  | 523.9  | 498.3  | 514.5  | 529.4  | 542.9  | 556.4  |
| 62.5° | 4564.3 | 3525.9 | 2334.8 | 1209.9 | 587.4  | 476.7  | 480.7  | 506.4  | 523.9  | 530.7  | 538.8  |
| 65°   | 4272.6 | 3320.6 | 2160.6 | 985.8  | 478.0  | 449.7  | 464.5  | 490.2  | 506.4  | 511.8  | 518.5  |
| 67.5° | 3733.8 | 2933.0 | 1820.3 | 742.7  | 426.7  | 426.7  | 445.6  | 464.5  | 478.0  | 488.8  | 499.6  |
| 69°   | 3246.3 | 2631.9 | 1602.9 | 629.3  | 406.5  | 409.2  | 428.1  | 444.3  | 460.5  | 474.0  | 487.5  |
| 70°   | 2895.2 | 2406.4 | 1451.7 | 571.2  | 394.3  | 395.7  | 414.6  | 432.1  | 447.0  | 461.8  | 478.0  |
| 72.5° | 1550.2 | 1662.3 | 1103.3 | 468.6  | 363.3  | 367.3  | 384.9  | 401.1  | 414.6  | 429.4  | 444.3  |
| 75°   | 528.0  | 714.4  | 702.2  | 383.5  | 328.1  | 338.9  | 349.7  | 364.6  | 382.2  | 391.6  | 399.7  |
| 77.5° | 309.2  | 320.0  | 374.1  | 311.9  | 295.7  | 301.1  | 313.3  | 325.4  | 340.3  | 349.7  | 356.5  |
| 80°   | 259.3  | 257.9  | 259.3  | 253.9  | 257.9  | 270.1  | 278.2  | 294.4  | 307.9  | 310.6  | 309.2  |
| 82.5° | 210.7  | 221.5  | 222.8  | 220.1  | 232.3  | 241.7  | 248.5  | 257.9  | 256.6  | 259.3  | 264.7  |
| 85°   | 187.7  | 186.4  | 195.8  | 197.2  | 197.2  | 190.4  | 191.8  | 191.8  | 191.8  | 195.8  | 197.2  |
| 87.5° | 187.7  | 156.6  | 121.5  | 109.4  | 114.8  | 108.0  | 102.6  | 101.3  | 112.1  | 122.9  | 120.2  |
| 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):**

|       | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 4171.3 | 4171.3 | 4171.3 | 4171.3 | 4171.3 |
| 2.5°  | 4168.6 | 4172.7 | 4170.0 | 4170.0 | 4172.7 |
| 5°    | 4140.3 | 4147.0 | 4144.3 | 4147.0 | 4147.0 |
| 7.5°  | 4075.5 | 4084.9 | 4091.7 | 4098.4 | 4094.4 |
| 10°   | 3982.3 | 3998.5 | 4009.3 | 4017.4 | 4013.3 |
| 12.5° | 3843.2 | 3858.1 | 3881.0 | 3894.5 | 3883.7 |
| 15°   | 3652.8 | 3694.7 | 3708.2 | 3727.1 | 3716.3 |
| 17.5° | 3454.3 | 3479.9 | 3496.1 | 3513.7 | 3524.5 |
| 20°   | 3189.6 | 3209.9 | 3231.5 | 3239.6 | 3227.4 |
| 22.5° | 2870.9 | 2881.7 | 2877.7 | 2889.8 | 2865.5 |
| 25°   | 2521.2 | 2527.9 | 2523.9 | 2534.7 | 2514.4 |
| 27.5° | 2190.3 | 2189.0 | 2190.3 | 2176.8 | 2163.3 |
| 30°   | 1871.6 | 1859.5 | 1854.1 | 1833.8 | 1829.8 |
| 32.5° | 1586.7 | 1544.8 | 1523.2 | 1493.5 | 1486.8 |
| 35°   | 1301.8 | 1242.4 | 1203.2 | 1169.4 | 1154.6 |
| 37.5° | 1046.5 | 975.0  | 929.1  | 899.4  | 895.3  |
| 40°   | 827.8  | 761.6  | 729.2  | 713.0  | 710.3  |
| 42.5° | 675.2  | 646.8  | 638.7  | 638.7  | 638.7  |
| 45°   | 615.8  | 614.4  | 621.2  | 626.6  | 627.9  |
| 47.5° | 603.6  | 611.7  | 621.2  | 629.3  | 632.0  |
| 50°   | 603.6  | 611.7  | 618.5  | 626.6  | 629.3  |
| 52.5° | 600.9  | 607.7  | 610.4  | 615.8  | 618.5  |
| 55°   | 592.8  | 596.9  | 596.9  | 599.6  | 602.3  |
| 57.5° | 579.3  | 582.0  | 578.0  | 580.7  | 587.4  |
| 60°   | 565.8  | 568.5  | 561.8  | 568.5  | 572.6  |
| 62.5° | 551.0  | 552.3  | 549.6  | 555.0  | 555.0  |
| 65°   | 526.7  | 523.9  | 528.0  | 532.1  | 533.4  |
| 67.5° | 502.3  | 495.6  | 499.6  | 501.0  | 503.7  |
| 69°   | 483.4  | 479.4  | 480.7  | 483.4  | 486.1  |
| 70°   | 469.9  | 467.2  | 469.9  | 474.0  | 478.0  |
| 72.5° | 436.2  | 437.5  | 447.0  | 455.1  | 463.2  |
| 75°   | 405.1  | 414.6  | 426.7  | 444.3  | 453.7  |
| 77.5° | 367.3  | 374.1  | 383.5  | 402.4  | 420.0  |
| 80°   | 317.3  | 321.4  | 322.7  | 329.5  | 328.1  |
| 82.5° | 257.9  | 253.9  | 251.2  | 248.5  | 247.1  |
| 85°   | 185.0  | 183.7  | 172.8  | 164.7  | 164.7  |
| 87.5° | 110.7  | 105.3  | 99.9   | 93.2   | 89.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)